

SECTION LAN

LAN SYSTEM

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PRECAUTIONS

Precautions for Supplemental Restraint System (SRS) “AIR BAG” and “SEAT BELT PRE-TENSIONER”

EKS004AL

The Supplemental Restraint System such as “AIR BAG” and “SEAT BELT PRE-TENSIONER”, used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the SRS and SB section of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SRS section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

Precautions When Using CONSULT-II

EKS00ARW

When connecting CONSULT-II to data link connector, connect them through CONSULT-II CONVERTER.

CAUTION:

If CONSULT-II is used with no connection of CONSULT-II CONVERTER, malfunctions might be detected in self-diagnosis depending on control unit which carry out CAN communication.

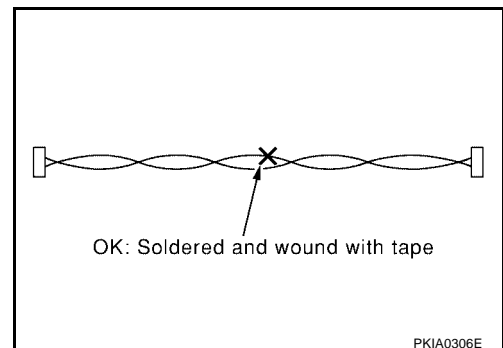
CHECK POINTS FOR USING CONSULT-II

1. Has CONSULT-II been used without connecting CONSULT-II CONVERTER on this vehicle?
 - If YES, GO TO 2.
 - If NO, GO TO 5.
2. Is there any indication other than indications relating to CAN communication system in the self-diagnosis results?
 - If YES, GO TO 3.
 - If NO, GO TO 4.
3. Based on self-diagnosis results unrelated to CAN communication, carry out the inspection.
4. Malfunctions may be detected in self-diagnosis depending on control units carrying out CAN communication. Therefore, erase the self-diagnosis results.
5. Diagnose CAN communication system. Refer to [LAN-8. "CAN System Type"](#) .

Precautions for CAN System

EKS0050R

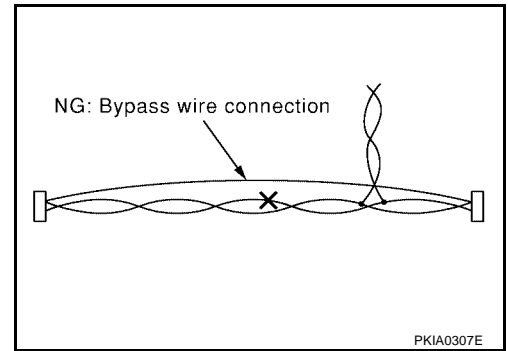
- Do not apply voltage of 7.0V or higher to terminal to be measured.
- Maximum open terminal voltage of tester in use must be less than 7.0V.
- Before checking harnesses, turn ignition switch OFF and disconnect battery negative cable.
- Area to be repaired must be soldered and wrapped with tape. Make sure that fraying of twisted wire is within 110 mm (4.33 in).



PRECAUTIONS

[CAN]

- Do not make a bypass connection to repaired area. (If the circuit is bypassed, characteristics of twisted wire will be lost.)



EKS0050S

Wiring Diagrams and Trouble Diagnosis

When you read wiring diagrams, refer to the following:

- [GI-12, "How to Read Wiring Diagrams"](#)
- [PG-3, "POWER SUPPLY ROUTING CIRCUIT"](#)

When you perform trouble diagnosis, refer to the following:

- [GI-10, "HOW TO FOLLOW TEST GROUPS IN TROUBLE DIAGNOSES"](#)
- [GI-25, "How to Perform Efficient Diagnosis for an Electrical Incident"](#)

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LAN

CAN COMMUNICATION

[CAN]

CAN COMMUNICATION

PF2:23710

System Description

EKS004AP

CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H line, CAN L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

CAN System Type

EKS004AQ

Refer to the following table to determine CAN system type.

Body type	Sedan																				
Axle	2WD																				
Engine	VQ35DE																				
Transmission	5 M/T			6 M/T			4 A/T					5 A/T									
Brake control	ABS			TCS			ABS		VDC			ABS			VDC			TCS			
Navigation system			x			x			x			x			x			x			x
Automatic drive positioner		x	x		x	x		x	x	x	x	x		x	x	x	x	x		x	x
CAN system type	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19		
CAN system trouble diagnosis	LA N- 23	LA N- 43	LA N- 65	LA N- 87	LA N- 10 7	LA N- 12 9	LA N- 15 1	LA N- 17 4	LA N- 19 9	LA N- 22 4	LA N- 25 0	LA N- 27 6	LA N- 29 9	LA N- 32 4	LA N- 34 9	LA N- 37 5	LA N- 40 1	LA N- 42 4	LA N- 44 9		

x: Applicable

CAN COMMUNICATION

[CAN]

Input/Output Signal Chart TYPE 1/TYPER 2/TYPER 3

EKS00500

T: Transmit R: Receive

Signals	ECM	Display control unit	Display unit	BCM	Unified meter and A/C amp.	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
Engine speed signal	T	R			R		R	
Engine status signal	T			R				
Engine coolant temperature signal	T				R			
Key switch signal				T		R		
Ignition switch signal				T		R		R
Fuel consumption monitor signal	T				R			
		R	R		T			
A/C switch signal	R			T				
A/C compressor request signal	T							R
Blower fan motor switch signal	R			T				
A/C control signal		T	T		R			
		R	R		T			
Cooling fan speed request signal	T							R
Cooling fan speed signal	R							T
Position light request signal				T	R			R
Low beam request signal				T				R
Low beam status signal	R							T
High beam request signal				T	R			R
High beam status signal	R							T
Front fog light request signal				T				R
Day time running light request signal				T	R			
Vehicle speed signal					R		T	
	R	R		R	T	R		
Sleep wake up signal				T	R	R		
Door switch signal		R	R	T	R	R		R
Turn indicator signal				T	R			
Cornering lamp request signal				T				R
Key fob ID signal				T		R		
Key fob door unlock signal				T		R		
Oil pressure switch signal				R				T
				T	R			
Buzzer output signal				T	R			
Fuel level sensor signal	R				T			
ASCD SET indicator signal	T				R			
ASCD CRUISE indicator signal	T				R			
Malfunction indicator lamp signal	T				R			

CAN COMMUNICATION

[CAN]

Signals	ECM	Display control unit	Display unit	BCM	Unified meter and A/C amp.	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
Front wiper request signal				T				R
Front wiper stop position signal				R				T
Rear window defogger switch signal				T				R
Rear window defogger control signal	R	R	R					T
Hood switch signal				R				T
Theft warning horn request signal				T				R
Horn chirp signal				T				R
ABS warning lamp signal					R		T	
Brake warning lamp signal					R		T	
System setting signal		T	T	R		R		
		R	R	T		T		
Distance to empty signal		R	R		T			
Seat belt buckle switch signal				R	T			
Parking brake switch signal				R	T			

CAN COMMUNICATION

[CAN]

TYPE 4/TYPER 5/TYPER 6

T: Transmit R: Receive

Signals	ECM	Dis-play control unit	Dis-play unit	BCM	Uni-fied meter and A/C amp.	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
Engine speed signal	T	R			R		R	
Engine status signal	T			R				
Engine coolant temperature signal	T				R			
Key switch signal				T		R		
Ignition switch signal				T		R		R
Fuel consumption monitor signal	T				R			
		R	R		T			
A/C switch signal	R			T				
A/C compressor request signal	T							R
Blower fan motor switch signal	R			T				
A/C control signal		T	T		R			
		R	R		T			
Cooling fan speed signal	R							T
Position light request signal				T	R			R
Low beam request signal				T				R
Low beam status signal	R							T
High beam request signal				T	R			R
High beam status signal	R							T
Front fog light request signal				T				R
Day time running light request signal				T	R			
Vehicle speed signal					R		T	
	R	R		R	T	R		
Sleep wake up signal				T	R	R		
Door switch signal		R	R	T	R	R		R
Turn indicator signal				T	R			
Cornering lamp request signal				T				R
Key fob ID signal				T		R		
Key fob door unlock signal				T		R		
Oil pressure switch signal				R				T
				T	R			
Buzzer output signal				T	R			
Fuel level sensor signal	R				T			
ASCD SET indicator signal	T				R			
ASCD CRUISE indicator signal	T				R			
Malfunction indicator lamp signal	T				R			
Front wiper request signal				T				R
Front wiper stop position signal				R				T

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CAN COMMUNICATION

[CAN]

Signals	ECM	Display control unit	Display unit	BCM	Unified meter and A/C amp.	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
Rear window defogger switch signal				T				R
Rear window defogger control signal	R	R	R					T
Hood switch signal				R				T
Theft warning horn request signal				T				R
Horn chirp signal				T				R
ABS warning lamp signal					R		T	
Brake warning lamp signal					R		T	
Slip indicator lamp signal					R		T	
Accelerator pedal position signal	T						R	
System setting signal		T	T	R		R		
		R	R	T		T		
Distance to empty signal		R	R		T			
Seat belt buckle switch signal				R	T			
Parking brake switch signal				R	T			

CAN COMMUNICATION

[CAN]

TYPE 7/TYPER 8/TYPER 9

T: Transmit R: Receive

Signals	ECM	TCM	Dis- play con- trol unit	Dis- play unit	BCM	Uni- fied meter and A/ C amp.	Driver seat con- trol unit	ABS actua- tor and elec- tric unit (con- trol unit)	IPDM E/R
Engine speed signal	T		R			R		R	
Engine status signal	T				R				
Engine coolant temperature signal	T					R			
Key switch signal					T		R		
Ignition switch signal					T		R		R
Fuel consumption monitor signal	T					R			
			R	R		T			
A/C switch signal	R				T				
A/C compressor request signal	T								R
Blower fan motor switch signal	R				T				
A/C control signal			T	T		R			
			R	R		T			
Cooling fan speed request signal	T								R
Cooling fan speed signal	R								T
Position light request signal					T	R			R
Low beam request signal					T				R
Low beam status signal	R								T
High beam request signal					T	R			R
High beam status signal	R								T
Front fog light request signal					T				R
Day time running light request signal					T	R			
Vehicle speed signal						R		T	
	R		R		R	T	R		
Sleep wake up signal					T	R	R		R
Door switch signal			R	R	T	R	R		R
Turn indicator signal					T	R			
Cornering lamp request signal					T				R
Key fob ID signal					T		R		
Key fob door unlock signal					T		R		
Oil pressure switch signal					R				T
					T	R			
Buzzer output signal					T	R			
Fuel level sensor signal	R					T			
ASCD SET indicator signal	T					R			
ASCD CRUISE indicator signal	T					R			
Malfunction indicator lamp signal	T					R			
Front wiper request signal					T				R

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CAN COMMUNICATION

[CAN]

Signals	ECM	TCM	Dis- play con- trol unit	Dis- play unit	BCM	Uni- fied meter and A/ C amp.	Driver seat con- trol unit	ABS actua- tor and elec- tric unit (con- trol unit)	IPDM E/R
Front wiper stop position signal					R				T
Rear window defogger switch signal					T				R
Rear window defogger control signal	R		R	R		R			T
Hood switch signal					R				T
Theft warning horn request signal					T				R
Horn chirp signal					T				R
ABS warning lamp signal						R		T	
Brake warning lamp signal						R		T	
System setting signal			T	T	R		R		
			R	R	T		T		
Distance to empty signal			R	R		T			
Seat belt buckle switch signal					R	T			
Parking brake switch signal					R	T			
A/T self-diagnosis signal	R	T							
Engine and A/T integrated control signal					R	T			
A/T self-diagnosis signal	R	T			R	T			
Accelerator pedal position signal	T							R	
Closed throttle position signal	T	R							
Wide open throttle position signal	T	R							
P range signal		T					R	R	
R range signal		T					R		
Stop lamp switch signal		R				T			
Input shaft revolution signal	R	T							
Output shaft revolution signal	R	T							
ASCD operation signal	T	R							
ASCD OD cancel request	T	R							
A/T position indicator lamp signal		T				R			
A/T CHECK indicator lamp signal		T				R			
3rd position switch signal		R				T			

CAN COMMUNICATION

[CAN]

TYPE 10/TYPE 11

T: Transmit R: Receive

Signals	ECM	TCM	Display control unit	Display unit	BCM	Unified meter and A/C amp.	Steering angle sensor	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
Engine speed signal	T		R			R			R	
Engine status signal	T				R					
Engine coolant temperature signal	T					R				
Key switch signal					T			R		
Ignition switch signal					T			R		R
Fuel consumption monitor signal	T					R				
			R	R		T				
A/C switch signal	R				T					
A/C compressor request signal	T									R
Blower fan motor switch signal	R				T					
A/C control signal			T	T		R				
			R	R		T				
Cooling fan speed request signal	T									R
Cooling fan speed signal	R									T
Position light request signal					T	R				R
Low beam request signal					T					R
Low beam status signal	R									T
High beam request signal					T	R				R
High beam status signal	R									T
Front fog light request signal					T					R
Day time running light request signal					T	R				
Vehicle speed signal						R			T	
	R		R		R	T		R		
Sleep wake up signal					T	R		R		R
Door switch signal			R	R	T	R		R		R
Turn indicator signal					T	R				
Cornering lamp request signal					T					R
Key fob ID signal					T			R		
Key fob door unlock signal					T			R		
Oil pressure switch signal					R					T
					T	R				
Buzzer output signal					T	R				
Fuel level sensor signal	R					T				
ASCD SET indicator signal	T					R				
ASCD CRUISE indicator signal	T					R				
Malfunction indicator lamp signal	T					R				
Front wiper request signal					T					R

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CAN COMMUNICATION

[CAN]

Signals	ECM	TCM	Display control unit	Display unit	BCM	Unified meter and A/C amp.	Steering angle sensor	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
Front wiper stop position signal					R					T
Rear window defogger switch signal					T					R
Rear window defogger control signal	R		R	R						T
Hood switch signal					R					T
Theft warning horn request signal					T					R
Horn chirp signal					T					R
ABS warning lamp signal						R			T	
Brake warning lamp signal						R			T	
System setting signal			T	T	R			R		
			R	R	T			T		
Distance to empty signal			R	R		T				
Seat belt buckle switch signal					R	T				
Parking brake switch signal					R	T				
A/T self-diagnosis signal	R	T								
Engine and A/T integrated control signal	T	R								
	R	T								
Accelerator pedal position sensor	T								R	
Closed throttle position signal	T	R								
Wide open throttle position signal	T	R								
P range signal		T						R	R	
R range signal		T						R		
Stop lamp switch signal		R				T				
TCS operation signal	R								T	
VDC operation signal	R								T	
Input shaft revolution signal	R	T								
Output shaft revolution signal	R	T								
ASCD operation signal	T	R								
ASCD OD cancel request	T	R								
Steering angle sensor signal							T		R	
VDC OFF indicator lamp signal						R			T	
SLIP indicator lamp signal						R			T	
A/T CHECK indicator lamp signal		T				R				
A/T position indicator lamp signal		T				R				
A/T shift schedule change demand signal		R							T	
3rd position switch signal		R				T				

CAN COMMUNICATION

[CAN]

TYPE 12/TYPER 13/TYPER 14

T: Transmit R: Receive

Signals	ECM	TCM	Dis- play con- trol unit	Dis- play unit	BCM	Uni- fied meter and A/ C amp.	Driver seat con- trol unit	ABS actua- tor and elec- tric unit (con- trol unit)	IPDM E/R
Engine speed signal	T	R	R			R		R	
Engine status signal	T				R				
Engine coolant temperature signal	T	R				R			
Key switch signal					T		R		
Ignition switch signal					T		R		R
ABS operation signal		R						T	
Fuel consumption monitor signal	T					R			
			R	R		T			
A/C switch signal	R				T				
A/C compressor request signal	T								R
Blower fan motor switch signal	R				T				
A/C control signal			T	T		R			
			R	R		T			
Cooling fan speed request signal	T								R
Cooling fan speed signal	R								T
Position light request signal					T	R			R
Low beam request signal					T				R
Low beam status signal	R								T
High beam request signal					T	R			R
High beam status signal	R								T
Front fog light request signal					T				R
Day time running light request signal					T	R			
Vehicle speed signal						R		T	
	R	R	R		R	T	R		
Sleep wake up signal					T	R	R		
Door switch signal			R	R	T	R	R		R
Turn indicator signal					T	R			
Cornering lamp request signal					T				R
Key fob ID signal					T		R		
Key fob door unlock signal					T		R		
Oil pressure switch signal					R				T
					T	R			
Buzzer output signal					T	R			
Fuel level sensor signal	R					T			
ASCD SET indicator signal	T					R			
ASCD CRUISE indicator signal	T					R			
Malfunction indicator lamp signal	T					R			

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CAN COMMUNICATION

[CAN]

Signals	ECM	TCM	Dis- play con- trol unit	Dis- play unit	BCM	Uni- fied meter and A/ C amp.	Driver seat con- trol unit	ABS actua- tor and elec- tric unit (con- trol unit)	IPDM E/R
Front wiper request signal					T				R
Front wiper stop position signal					R				T
Rear window defogger switch signal					T				R
Rear window defogger control signal	R		R	R					T
Hood switch signal					R				T
Theft warning horn request signal					T				R
Horn chirp signal					T				R
ABS warning lamp signal						R		T	
Brake warning lamp signal						R		T	
System setting signal			T	T	R		R		
			R	R	T		T		
Distance to empty signal			R	R		T			
Seat belt buckle switch signal					R	T			
Parking brake switch signal					R	T			
ASCD operation signal	T	R							
ASCD OD cancel request	T	R							
A/T CHECK indicator lamp signal		T				R			
A/T position indicator lamp signal		T				R			
Manual mode indicator signal		T				R			
A/T self-diagnosis signal	R	T							
Electric throttle control signal	T	R							
Engine and A/T integrated control signal	T	R							
	R	T							
Accelerator pedal position signal	T							R	
P range signal		T					R	R	
R range signal		T					R		
Stop lamp switch signal		R				T			
Input shaft revolution signal	R	T							
Output shaft revolution signal	R	T							

CAN COMMUNICATION

[CAN]

TYPE 15/TYPE 16

T: Transmit R: Receive

Signals	ECM	TCM	Display control unit	Display unit	BCM	Unified meter and A/C amp.	Steering angle sensor	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
Engine speed signal	T	R	R			R			R	
Engine status signal	T				R					
Engine coolant temperature signal	T	R				R				
Key switch signal					T			R		
Ignition switch signal					T			R		R
ABS operation signal		R							T	
Fuel consumption monitor signal	T					R				
			R	R		T				
A/C switch signal	R				T					
A/C compressor request signal	T									R
Blower fan motor switch signal	R				T					
A/C control signal			T	T		R				
			R	R		T				
Cooling fan speed request signal	T									R
Cooling fan speed signal	R									T
Position light request signal					T	R				R
Low beam request signal					T					R
Low beam status signal	R									T
High beam request signal					T	R				R
High beam status signal	R									T
Front fog light request signal					T					R
Day time running light request signal					T	R				
Vehicle speed signal						R			T	
	R	R	R		R	T		R		
Sleep wake up signal					T	R		R		R
Door switch signal			R	R	T	R		R		R
Turn indicator signal					T	R				
Cornering lamp request signal					T					R
Key fob ID signal					T			R		
Key fob door unlock signal					T			R		
Oil pressure switch signal					R					T
					T	R				
Buzzer output signal					T	R				
Fuel level sensor signal	R					T				
ASCD SET indicator signal	T					R				
ASCD CRUISE indicator signal	T					R				
Malfunction indicator lamp signal	T					R				

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CAN COMMUNICATION

[CAN]

Signals	ECM	TCM	Display control unit	Display unit	BCM	Unified meter and A/C amp.	Steering angle sensor	Driver seat control unit	ABS actuator and electric unit (control unit)	IPDM E/R
Front wiper request signal					T					R
Front wiper stop position signal					R					T
Rear window defogger switch signal					T					R
Rear window defogger control signal	R		R	R						T
Hood switch signal					R					T
Theft warning horn request signal					T					R
Horn chirp signal					T					R
ABS warning lamp signal						R			T	
Brake warning lamp signal						R			T	
System setting signal			T	T	R			R		
			R	R	T			T		
Distance to empty signal			R	R		T				
Seat belt buckle switch signal					R	T				
Parking brake switch signal					R	T				
A/T self-diagnosis signal	R	T								
Electric throttle control signal	T	R								
Engine and A/T integrated control signal	T	R								
	R	T								
Accelerator pedal position signal	T								R	
P range signal		T						R	R	
R range signal		T						R		
Stop lamp switch signal		R				T				
TCS operation signal	R	R							T	
VDC operation signal	R	R							T	
Input shaft revolution signal	R	T								
Output shaft revolution signal	R	T								
ASCD operation signal	T	R								
ASCD OD cancel request	T	R								
Steering angle sensor signal							T		R	
VDC OFF indicator lamp signal						R			T	
SLIP indicator lamp signal						R			T	
A/T CHECK indicator lamp signal		T				R				
A/T position indicator lamp signal		T				R				
A/T shift schedule change demand signal		R							T	
Manual mode indicator signal		T				R				

CAN COMMUNICATION

[CAN]

TYPE 17/TYPER 18/TYPER 19

T: Transmit R: Receive

Signals	ECM	TCM	Dis- play con- trol unit	Dis- play unit	BCM	Uni- fied meter and A/ C amp.	Driver seat con- trol unit	ABS actua- tor and elec- tric unit (con- trol unit)	IPDM E/R
Engine speed signal	T	R	R			R		R	
Engine status signal	T				R				
Engine coolant temperature signal	T	R				R			
Key switch signal					T		R		
Ignition switch signal					T		R		R
ABS operation signal	R	R						T	
Fuel consumption monitor signal	T					R			
A/C switch signal	R				T				
A/C compressor request signal	T								R
Blower fan motor switch signal	R				T				
A/C control signal			T	T		R			
Cooling fan speed request signal	T		R	R		T			
Cooling fan speed signal	R								R
Position light request signal					T	R			R
Low beam request signal					T				R
Low beam status signal	R								T
High beam request signal					T	R			R
High beam status signal	R								T
Front fog light request signal					T				R
Day time running light request signal					T	R			
Vehicle speed signal	R	R	R		R	R	R	T	
Sleep wake up signal					T	R	R		R
Door switch signal			R	R	T	R	R		R
Turn indicator signal					T	R			
Cornering lamp request signal					T				R
Key fob ID signal					T		R		
Key fob door unlock signal					T		R		
Oil pressure switch signal					R				T
Buzzer output signal					T	R			
Fuel level sensor signal	R					T			
ASCD SET indicator signal	T					R			
ASCD CRUISE indicator signal	T					R			
Malfunction indicator lamp signal	T					R			

CAN COMMUNICATION

[CAN]

Signals	ECM	TCM	Dis- play con- trol unit	Dis- play unit	BCM	Uni- fied meter and A/ C amp.	Driver seat con- trol unit	ABS actua- tor and elec- tric unit (con- trol unit)	IPDM E/R
Front wiper request signal					T				R
Front wiper stop position signal					R				T
Rear window defogger switch signal					T				R
Rear window defogger control signal	R		R	R					T
Hood switch signal					R				T
Theft warning horn request signal					T				R
Horn chirp signal					T				R
ABS warning lamp signal						R		T	
Brake warning lamp signal						R		T	
System setting signal			T	T	R		R		
			R	R	T		T		
Distance to empty signal			R	R		T			
Seat belt buckle switch signal					R	T			
Parking brake switch signal					R	T			
A/T self-diagnosis signal	R	T							
Electric throttle control signal	T	R							
Engine and A/T integrated control signal	T	R							
	R	T							
Accelerator pedal position signal	T							R	
P range signal		T					R	R	
R range signal		T					R		
Stop lamp switch signal		R				T			
TCS operation signal	R	R						T	
Input shaft revolution signal	R	T							
Output shaft revolution signal	R	T							
ASCD operation signal	T	R							
ASCD OD cancel request	T	R							
SLIP indicator lamp signal						R		T	
A/T CHECK indicator lamp signal		T				R			
A/T position indicator lamp signal		T				R			
A/T shift schedule change demand signal		R						T	
Manual mode indicator signal		T				R			

CAN SYSTEM (TYPE 1)

PFP:23710

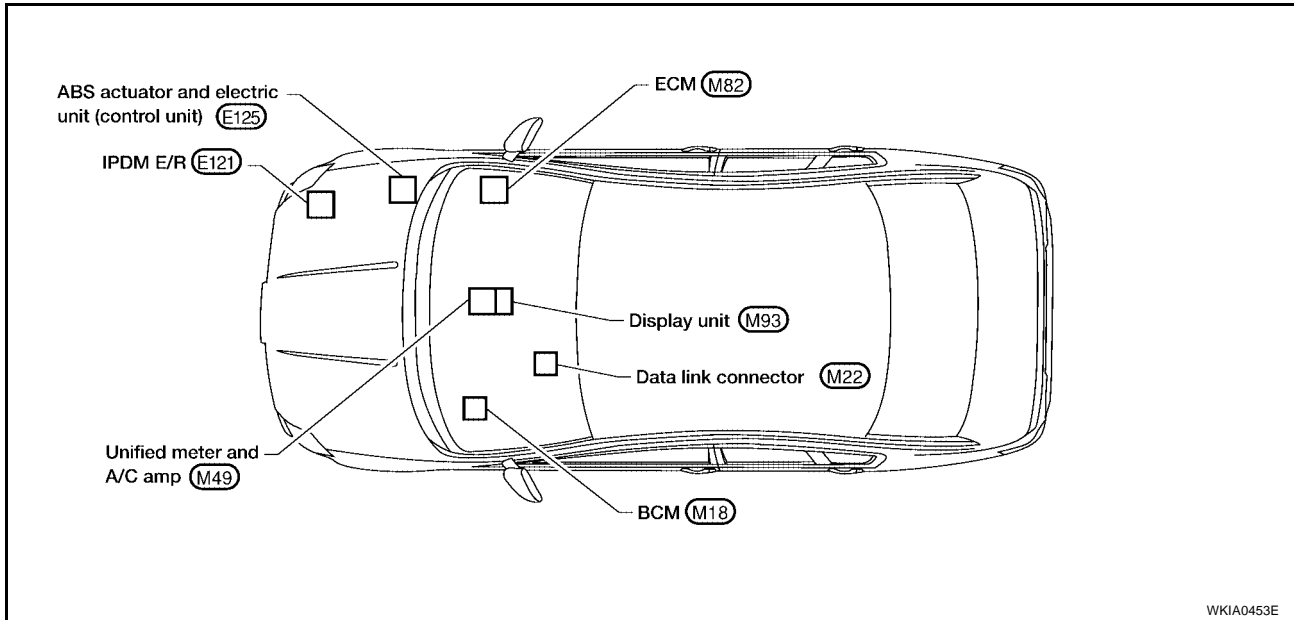
System Description

EKS00508

CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H line, CAN L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

Component Parts and Harness Connector Location

EKS00509



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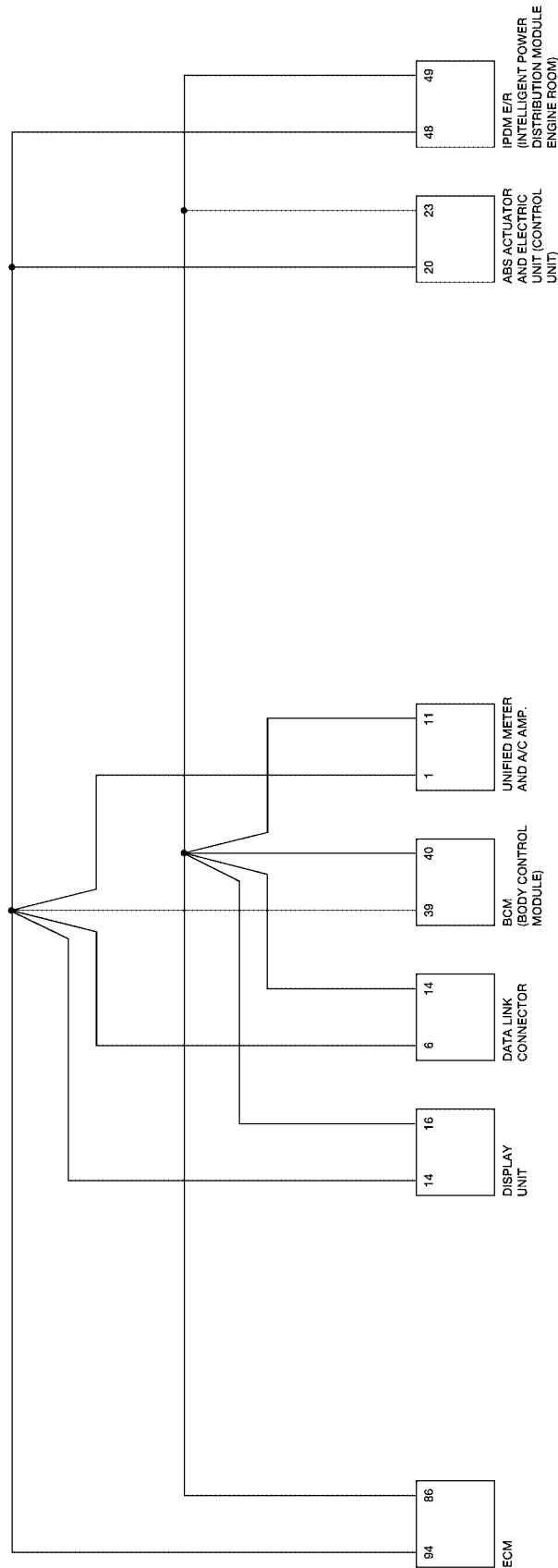
LAN

CAN SYSTEM (TYPE 1)

[CAN]

Schematic

EKS0050A

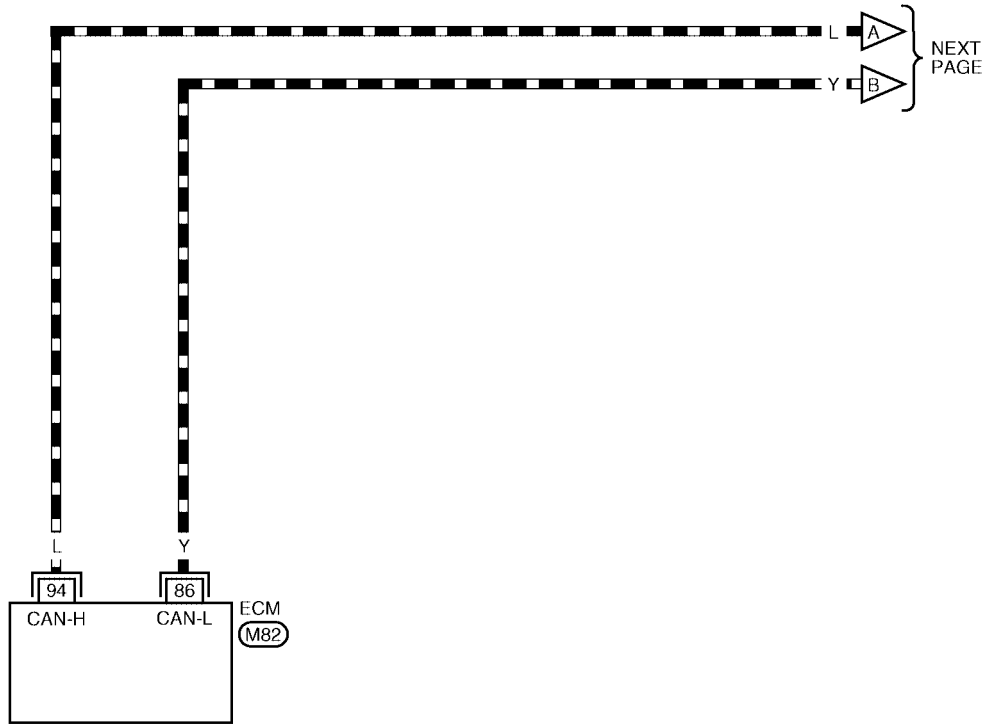


WKWA0453E

Wiring Diagram - CAN -

LAN-CAN-01

▬ : DATA LINE

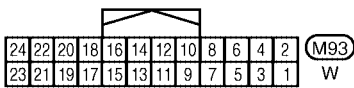
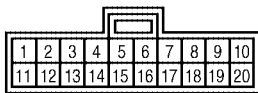
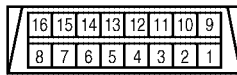
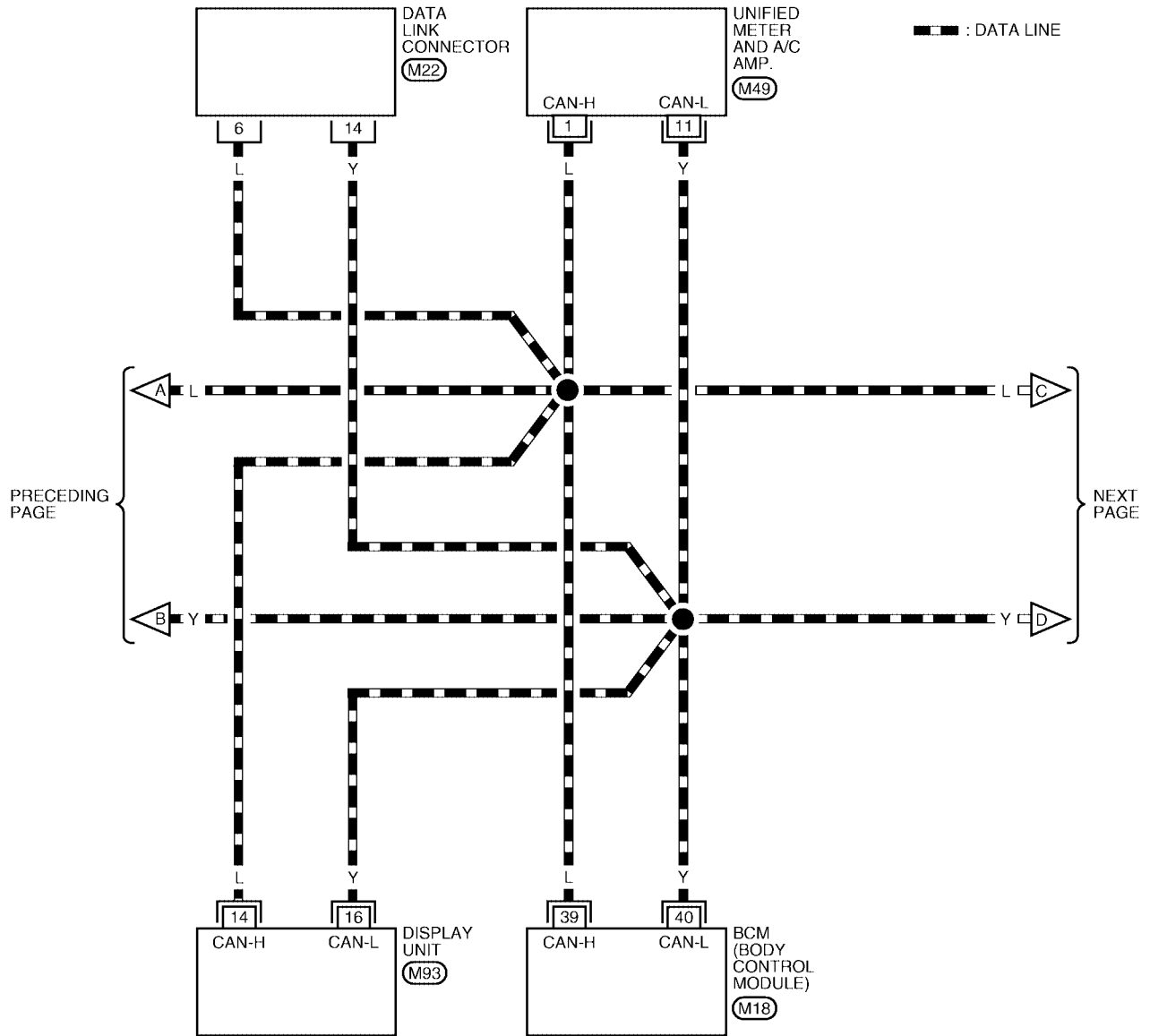


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REFER TO THE FOLLOWING.
(M82) - ELECTRICAL
UNITS

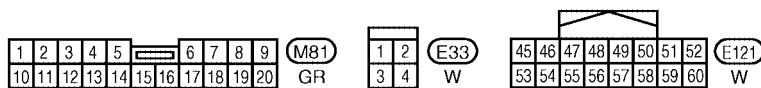
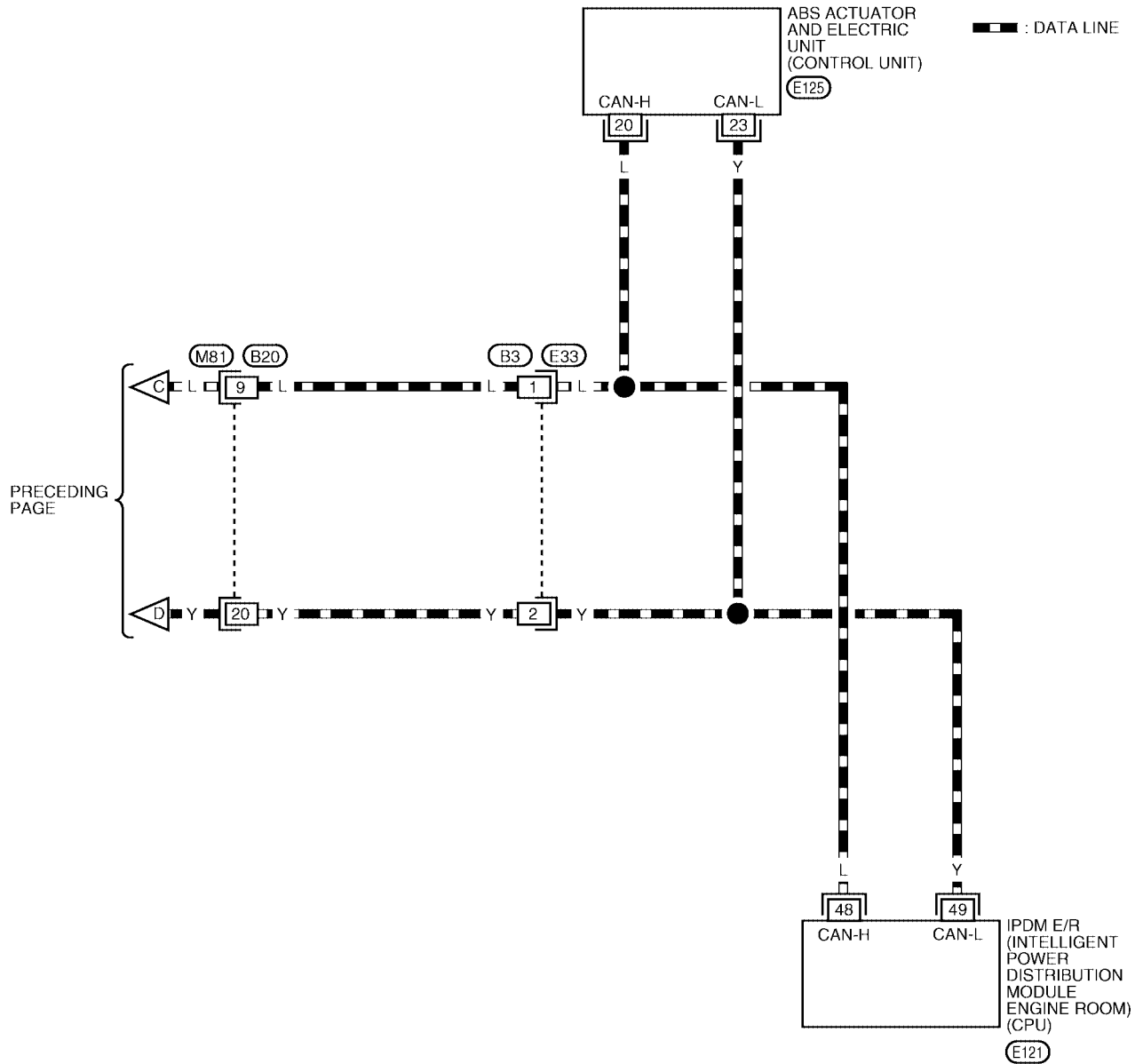
BKWA0357E



REFER TO THE FOLLOWING.

(M18) - ELECTRICAL UNITS

LAN-CAN-03



REFER TO THE FOLLOWING.
 (E125) - ELECTRICAL UNITS

BKWA0359E

CAN SYSTEM (TYPE 1)

[CAN]

-
- The “CAN DIAG SUPPORT MNTR” items which are not in check sheet table are not related to diagnostic procedure on service manual.
Therefore, it is not necessary to check the status of the “CAN DIAG SUPPORT MNTR” items not in check sheet table.
5. Mark the “NG” or “UNKWN” item of the check sheet table from the result of CAN DIAG SUPPORT MONITOR check sheet.
- NOTE:**
If “NG” is displayed on “CAN COMM” as “CAN DIAG SUPPORT MNTR” for the diagnosed control unit, replace the control unit.
6. According to the Check Sheet Results, start inspection.

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CAN SYSTEM (TYPE 1)

[CAN]

CHECK SHEET

Check sheet table

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

Symptoms:

Attach copy of
SELECT SYSTEM

Attach copy of
SELECT SYSTEM

Attach copy of
display unit
CAN DIAG MONITOR
check sheet

BKIA0074E

CAN SYSTEM (TYPE 1)

[CAN]

Attach copy of ENGINE SELF-DIAG RESULTS	Attach copy of METER A/C AMP SELF-DIAG RESULTS	Attach copy of ABS SELF-DIAG RESULTS
Attach copy of BCM SELF-DIAG RESULTS	Attach copy of IPDM E/R SELF-DIAG RESULTS	
Attach copy of ENGINE CAN DIAG SUPPORT MNTR	Attach copy of METER A/C AMP CAN DIAG SUPPORT MNTR	Attach copy of ABS CAN DIAG SUPPORT MNTR
Attach copy of BCM CAN DIAG SUPPORT MNTR	Attach copy of IPDM E/R CAN DIAG SUPPORT MNTR	

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BKIA0082E

CAN SYSTEM (TYPE 1)

[CAN]

CHECK SHEET RESULTS

Case 1

Replace ECM.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	✓	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA2115E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA2116E

Case 2

Replace display unit.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA2117E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
Display unit	-	CAN COMM	CAN 1	✓3	-	✓5	✓2	-	✓7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA2118E

CAN SYSTEM (TYPE 1)

[CAN]

Case 3

Replace BCM.

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR					
				Receive diagnosis					
				ECM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA2119E

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR					
				Receive diagnosis					
				ECM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	✓	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA2120E

Case 4

Replace unified meter and A/C amp.

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR					
				Receive diagnosis					
				ECM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA2121E

Case 5

Replace ABS actuator and electric unit (control unit).

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR					
				Receive diagnosis					
				ECM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
ABS	-	✓	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA2122E

A
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M

LAN

CAN SYSTEM (TYPE 1)

[CAN]

Case 6

Replace IPDM E/R.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA2123E

Case 7

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to [LAN-37](#)

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA2124E

Case 8

Check ECM circuit. Refer to [LAN-37](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA2125E

Case 9

Check display unit circuit. Refer to [LAN-38](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA2126E

CAN SYSTEM (TYPE 1)

[CAN]

Case 10

Check data link connector circuit. Refer to [LAN-38](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA2127E

Case 11

Check BCM circuit. Refer to [LAN-39](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA2128E

Case 12

Check unified meter and A/C amp. circuit. Refer to [LAN-39](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA2129E

Case 13

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-40](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA2130E

CAN SYSTEM (TYPE 1)

[CAN]

Case 14

Check IPDM E/R circuit. Refer to [LAN-40](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA2131E

Case 15

Check CAN communication circuit. Refer to [LAN-41](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA2132E

Case 16

Check IPDM E/R.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA2133E

Case 17

Check IPDM E/R Ignition relay circuit. Refer to [LAN-42](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA2134E

Circuit Check Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit)

EKS0050E

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect memory seat module connector P2, ABS actuator and electric unit (control unit) connector E125 and M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

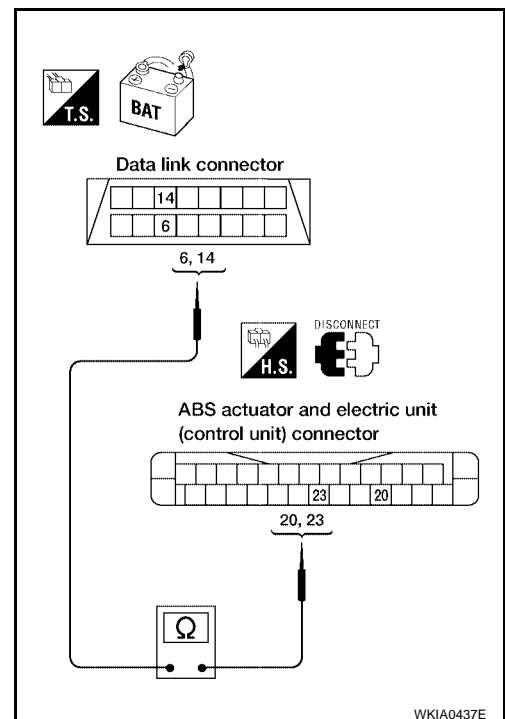
Check continuity between data link connector M22 terminals 6 (L), 14 (Y) and ABS actuator and electric unit (control unit) connector E125 terminals 20 (L), 23 (Y).

6 (L) - 20 (L) : Continuity should exist.

14 (Y) - 23 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-28](#).
NG >> Repair harness.



EKS0050F

ECM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

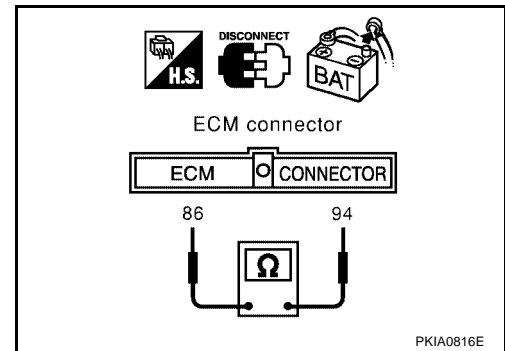
Check resistance between ECM connector M82 terminal 94 (L) and terminal 86 (Y).

94 (L) - 86 (Y)

: Approx. 108 - 132Ω

OK or NG

- OK >> Replace ECM.
- NG >> Repair harness between ECM connector M82 and data link connector M22.



EKS0050G

Display Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect display unit connector M93.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
- NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

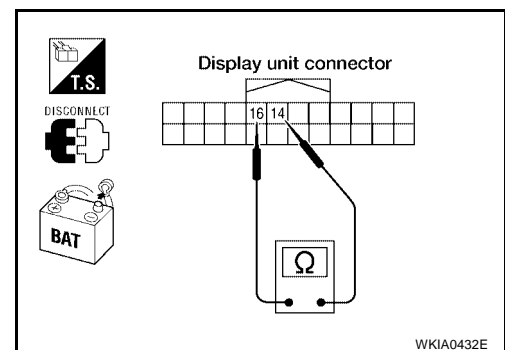
Check resistance between display unit connector M93 terminal 25 (L) and terminal 26 (Y).

14 (L) - 16 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace display unit.
- NG >> Repair harness between display unit connector M93 and data link connector M22.



EKS0050H

Data Link Connector Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Check data link connector M22 terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
- NG >> Repair or replace as necessary.

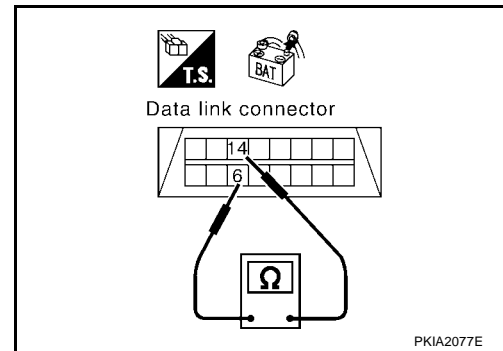
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector M22 terminal 6 (L) and terminal 14 (Y).

6 (L) - 14 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-28](#).
- NG >> Repair harness between data link connector M22 and BCM connector M18.



EKS0050I

BCM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect BCM connector M18.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
- NG >> Repair or replace as necessary.

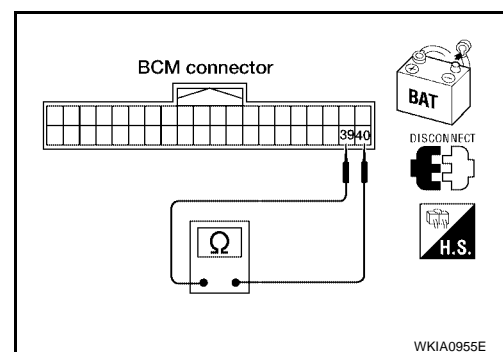
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between BCM connector M18 terminal 39 (L) and terminal 40 (Y).

39 (L) - 40 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace BCM.
- NG >> Repair harness between BCM connector M18 and data link connector M22.



EKS0050J

Unified Meter and A/C Amp. Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect unified meter and A/C amp. connector M49.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
- NG >> Repair or replace as necessary.

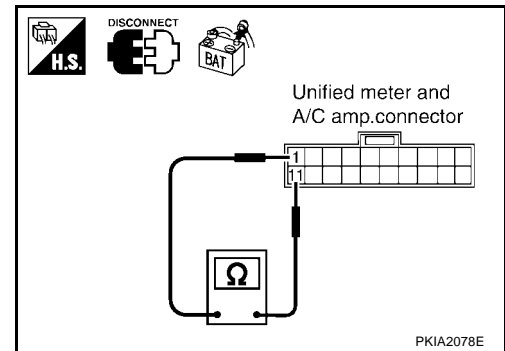
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between unified meter and A/C amp. connector M49 terminal 1 (L) and terminal 11 (Y).

1 (L) - 11 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace unified meter and A/C amp.
 NG >> Repair harness between unified meter and A/C amp. connector M49 and data link connector M22.



ABS Actuator and Electric Unit (Control Unit) Circuit Check

EKS0050L

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ABS actuator and electric unit (control unit) connector E125.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

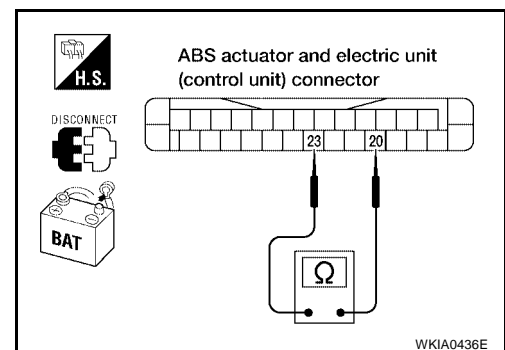
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between ABS actuator and electric unit (control unit) connector E125 terminal 20 (L) and terminal 23 (Y).

20 (L) - 23 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace ABS actuator and electric unit (control unit).
 NG >> Repair harness between ABS actuator and electric unit (control unit) connector E125 and IPDM E/R connector E121.



IPDM E/R Circuit Check

EKS0050M

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect IPDM E/R connector E121.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

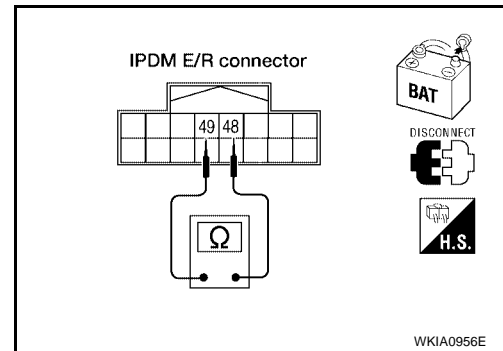
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between IPDM E/R connector E121 terminal 48 (L) and terminal 49 (Y).

48 (L) - 49 (Y) : Approx. 108 - 132Ω

OK or NG

- OK >> Replace IPDM E/R.
 NG >> Repair harness between IPDM E/R connector E121 and ABS actuator and electric unit (control unit) connector E125.



EKS0050N

CAN Communication Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect the following module and control unit connectors and check terminals for deformation, disconnection, looseness or damage.
 - ECM
 - Display unit
 - BCM (Body control module)
 - Unified meter and A/C amp.
 - ABS actuator and electric unit (control unit)
 - IPDM E/R (Intelligent power distribution module engine room)

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

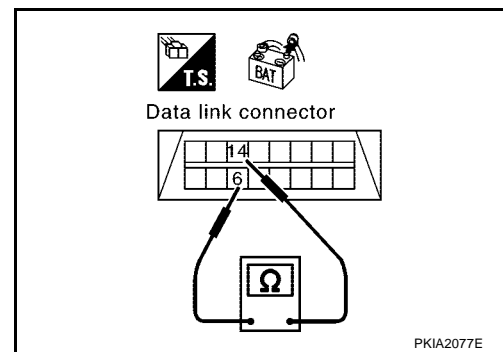
2. CHECK HARNESS FOR SHORTED CIRCUITS

With all module and control unit connectors disconnected, check continuity between data link connector M22 terminals 6 (L) and 14 (Y).

6 (L) - 14 (Y) : Continuity should not exist.

OK or NG

- OK >> GO TO 3.
 NG >> Repair the harness.



PKIA2077E

3. CHECK HARNESS FOR SHORT TO GROUND

Check continuity between data link connector M22 terminals 6 (L), 14 (Y) and ground.

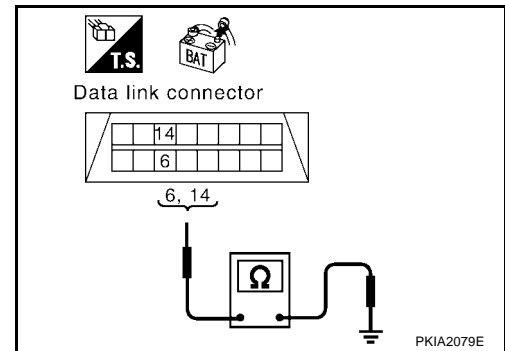
6 (L) - Ground : Continuity should not exist.

14 (Y) - Ground : Continuity should not exist.

OK or NG

OK >> Check ECM and IPDM E/R. Refer to [LAN-42, "Component Inspection"](#).

NG >> Repair the harness.



EKS00500

IPDM E/R Ignition Relay Circuit Check

Check the following. If no problem is found, replace the IPDM E/R.

- IPDM E/R power supply circuit. Refer to [PG-24, "IPDM E/R Power/Ground Circuit Inspection"](#).
- Ignition power supply circuit. Refer to [PG-11, "IGNITION POWER SUPPLY — IGNITION SW. IN ON AND/OR START"](#).

Component Inspection

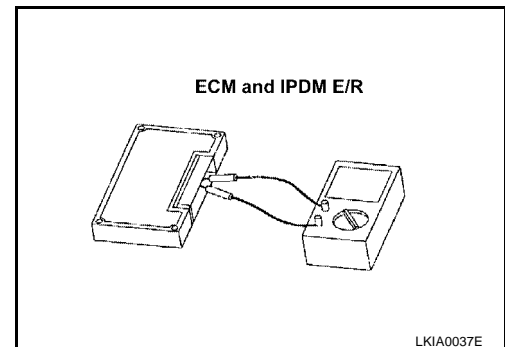
ECM/IPDM E/R INTERNAL CIRCUIT INSPECTION

- Remove ECM and IPDM E/R from vehicle.
- Check resistance between ECM terminals 94 and 86.

94 - 86 : Approx. 108 - 132Ω
- Check resistance between IPDM E/R terminals 48 and 49.

48 - 49 : Approx. 108 - 132Ω

EKS0050P



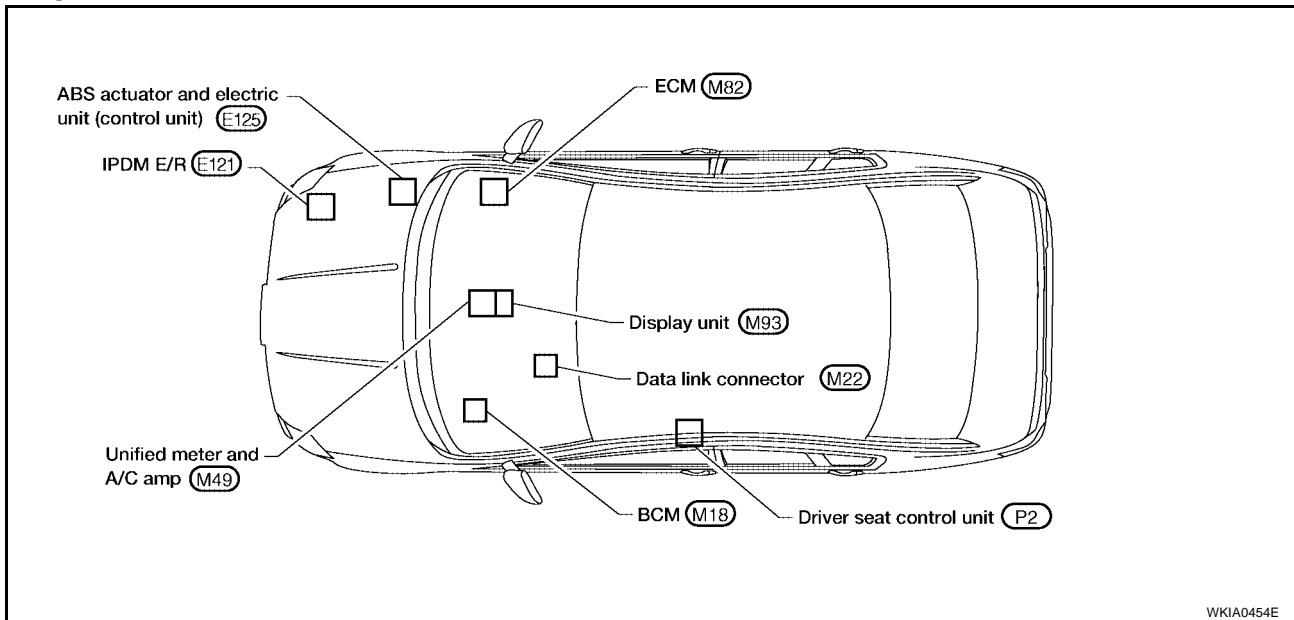
LKIA0037E

CAN SYSTEM (TYPE 2)

System Description

CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H line, CAN L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

Component Parts and Harness Connector Location



A
B
C
D
E
F
G
H
I
J
L
M

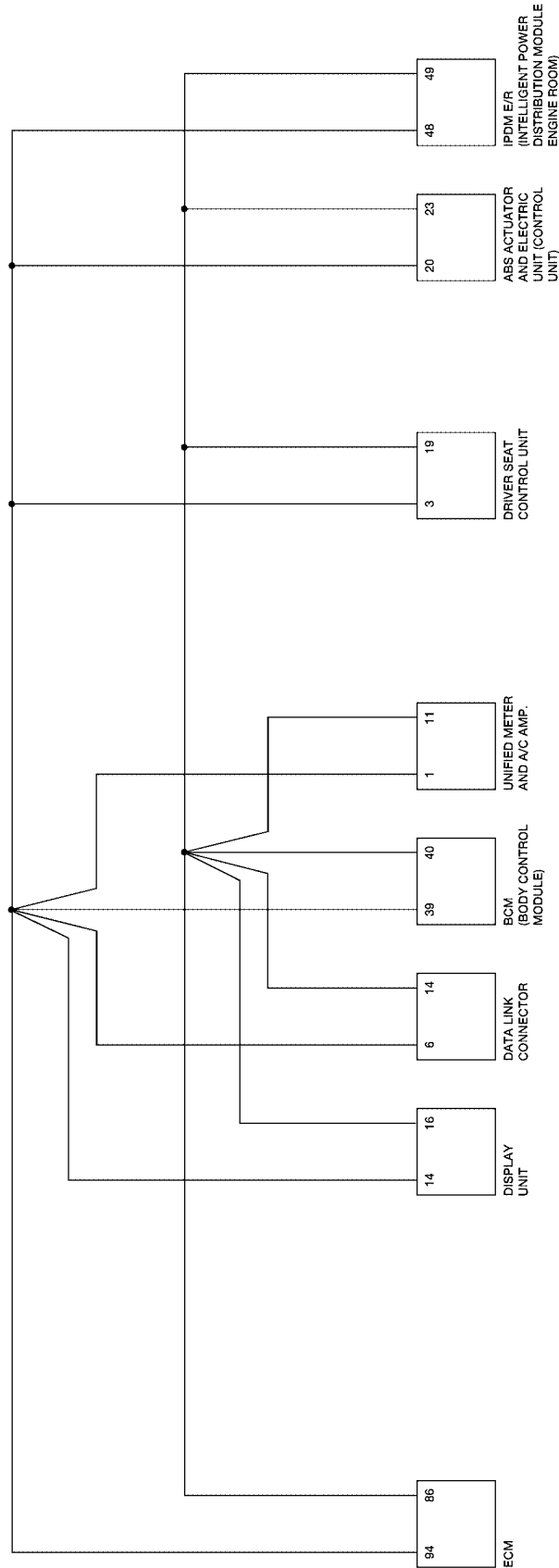
LAN

CAN SYSTEM (TYPE 2)

[CAN]

Schematic

EKS004Z0



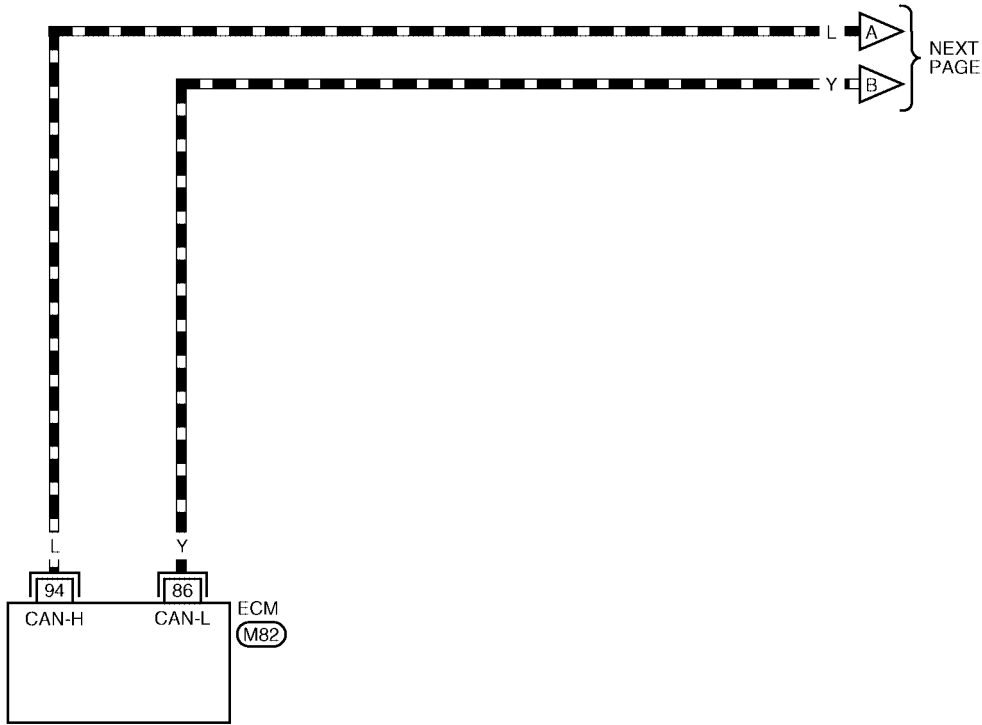
WKWA0449E

Wiring Diagram - CAN -

EKS004ZR

LAN-CAN-04

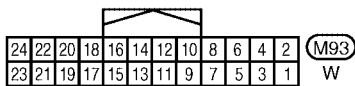
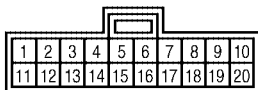
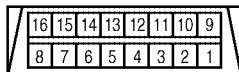
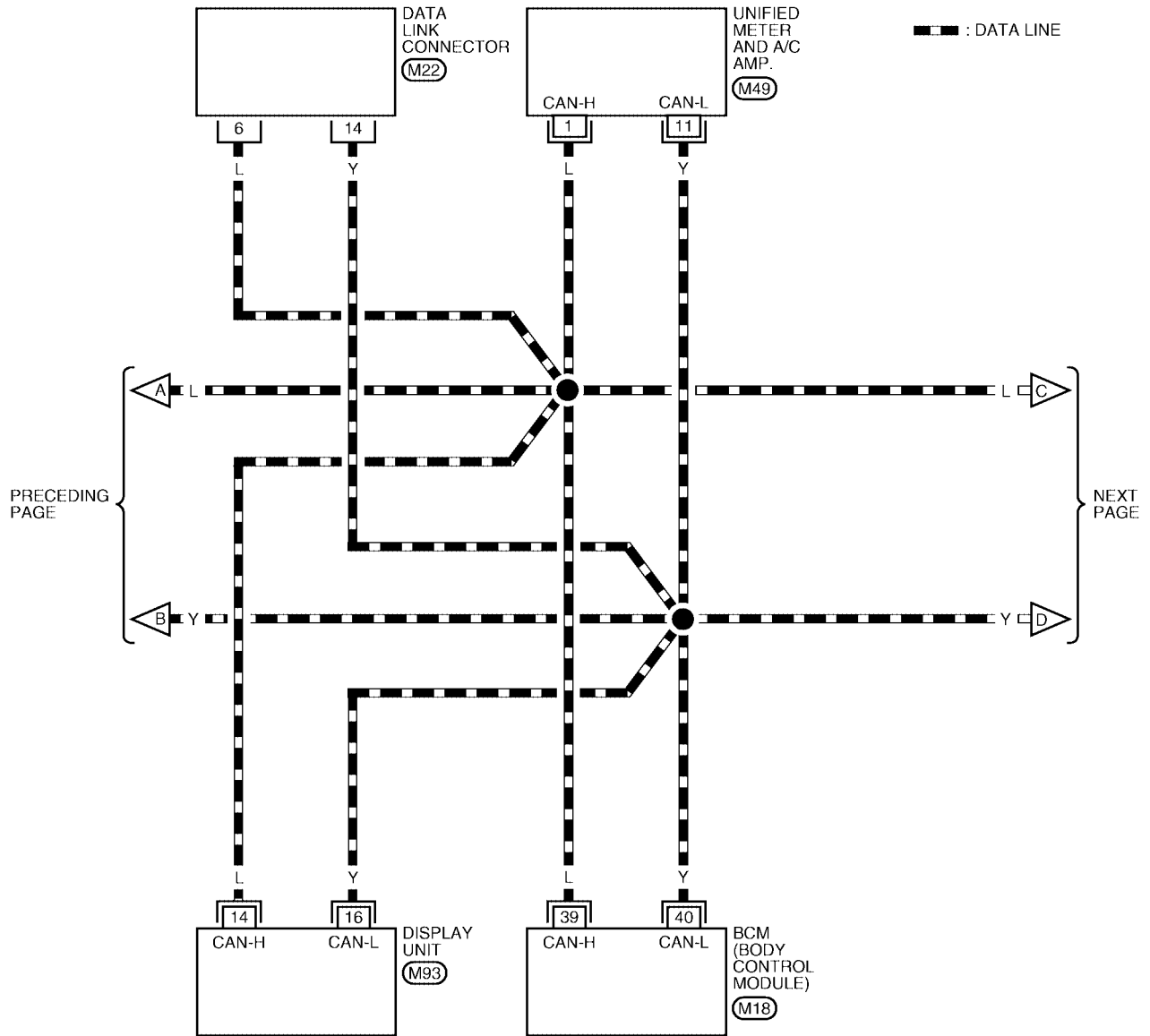
— — — : DATA LINE



A
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LAN
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REFER TO THE FOLLOWING.
M82 - ELECTRICAL
UNITS

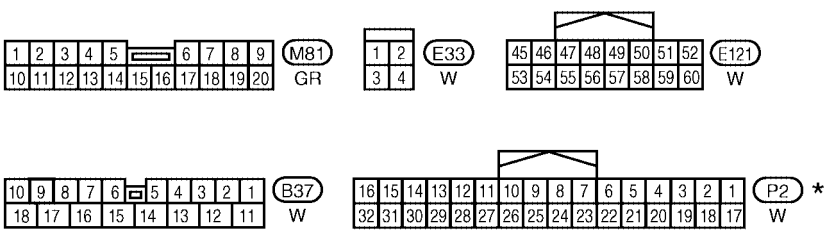
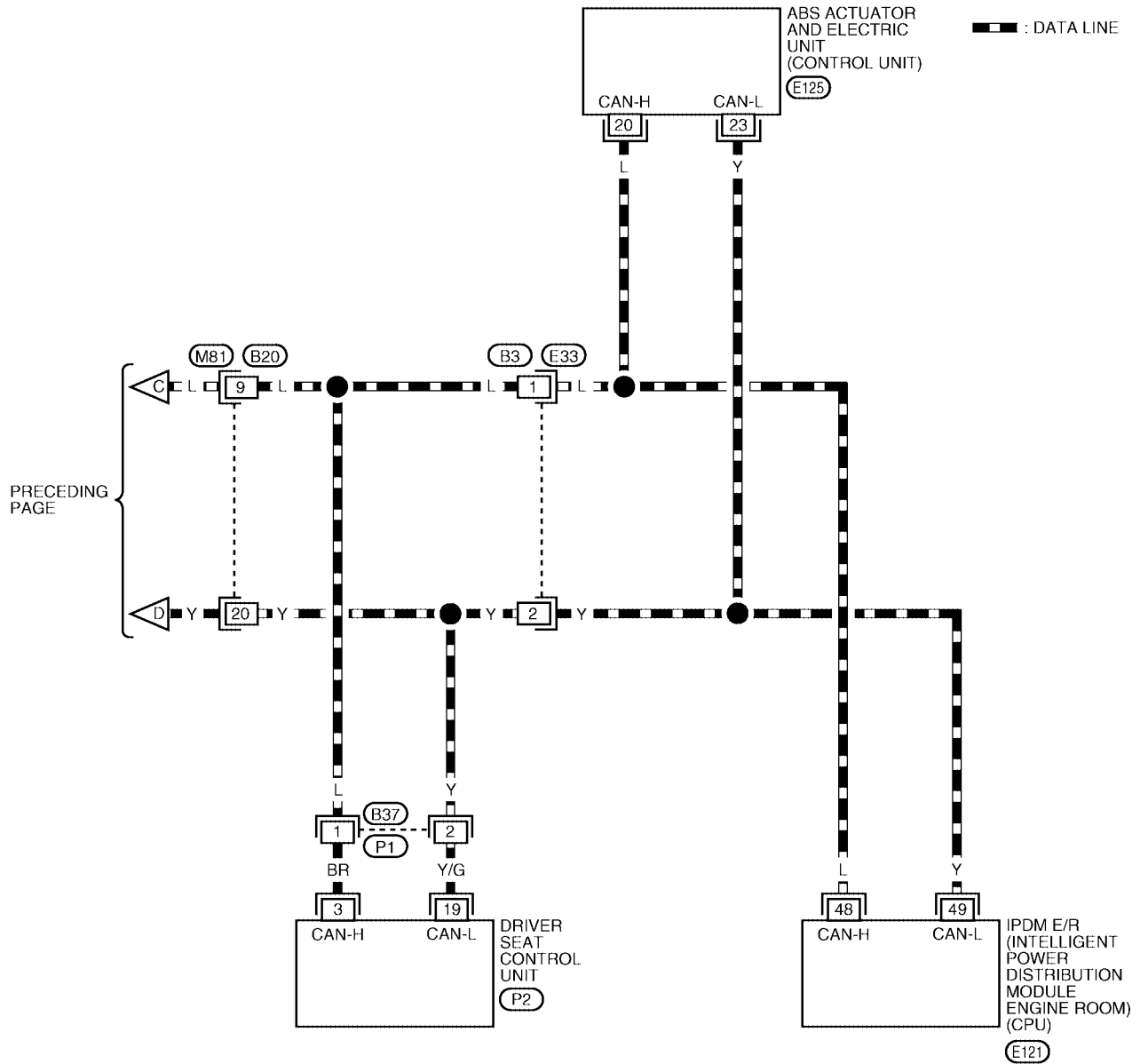
BKWA0360E



REFER TO THE FOLLOWING.

(M18) - ELECTRICAL UNITS

LAN-CAN-06



REFER TO THE FOLLOWING.
 (E125) - ELECTRICAL UNITS

*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT" OF PG SECTION.

BKWA0362E

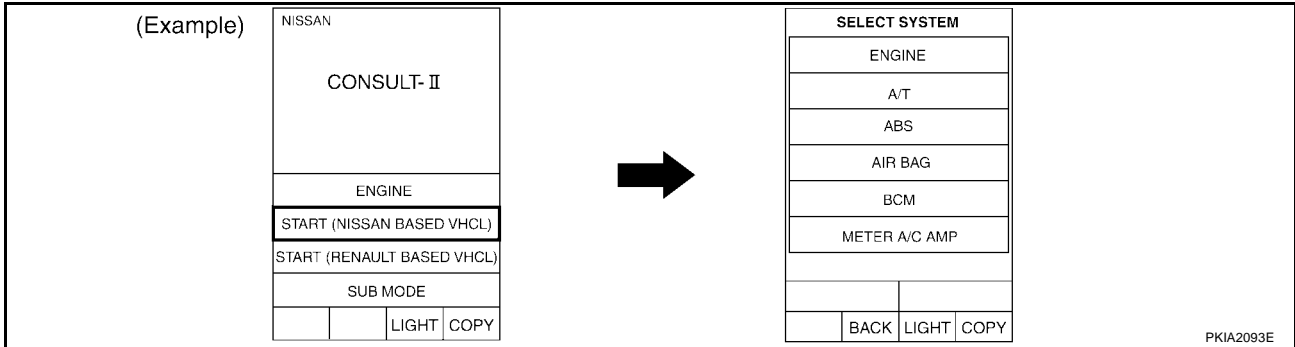
CAN SYSTEM (TYPE 2)

[CAN]

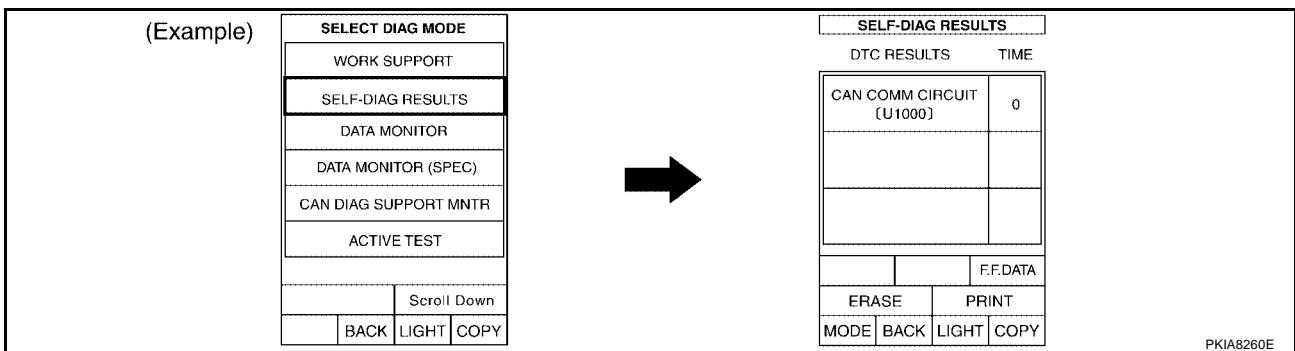
EKS004ZS

Work Flow

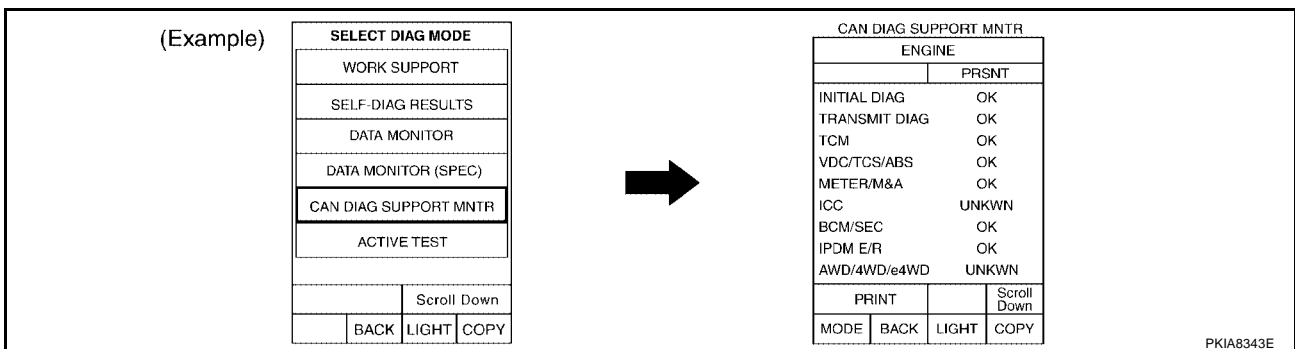
- When there are no indications of "METER A/C AMP", "BCM", "IPDM E/R" or "AUTO DRIVE POS." on "SELECT SYSTEM" display of CONSULT-II, print the "SELECT SYSTEM".



- Print all the data of "SELF-DIAG RESULTS" for "ENGINE", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Print all the data of "CAN DIAG SUPPORT MNTR" for "ENGINE", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Based on the indications of "SELECT SYSTEM" and the results of "CAN DIAG SUPPORT MNTR", put marks onto the items with "No indication", "NG", or "UNKWN" in the check sheet table.

SELECT SYSTEM screen	Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
			Receive diagnosis						
			ECM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R	
ENGINE	-	NG	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

BKIA0055E

NOTE:

- If "NG" is displayed on "INITIAL DIAG (Initial diagnosis) CAN COMM" as "CAN DIAG SUPPORT MNTR" for the diagnosed control unit, replace the control unit.

CAN SYSTEM (TYPE 2)

[CAN]

-
- The “CAN DIAG SUPPORT MNTR” items which are not in check sheet table are not related to diagnostic procedure on service manual.
Therefore, it is not necessary to check the status of the “CAN DIAG SUPPORT MNTR” items not in check sheet table.
5. Mark the “NG” or “UNKWN” item of the check sheet table from the result of CAN DIAG SUPPORT MONITOR check sheet.
- NOTE:**
If “NG” is displayed on “CAN COMM” as “CAN DIAG SUPPORT MNTR” for the diagnosed control unit, replace the control unit.
6. According to the Check Sheet Results, start inspection.

A

B

C

D

E

F

G

H

I

J

LAN

L

M

CAN SYSTEM (TYPE 2)

[CAN]

CHECK SHEET

Check sheet table

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

Symptoms:

Attach copy of
SELECT SYSTEM

Attach copy of
SELECT SYSTEM

Attach copy of
display unit
CAN DIAG MONITOR
check sheet

BKIA0075E

CAN SYSTEM (TYPE 2)

[CAN]

Attach copy of ENGINE SELF-DIAG RESULTS	Attach copy of METER A/C AMP SELF-DIAG RESUL	Attach copy of ABS SELF-DIAG RESULTS
Attach copy of BCM SELF-DIAG RESULTS	Attach copy of AUTO DRIVE POS. SELF-DIAG RESULTS	Attach copy of IPDM E/R SELF-DIAG RESULTS
Attach copy of ENGINE CAN DIAG SUPPORT MNTR	Attach copy of METER A/C AMP CAN DIAG SUPPORT MNTR	Attach copy of ABS CAN DIAG SUPPORT MNTR
Attach copy of BCM CAN DIAG SUPPORT MNTR	Attach copy of AUTO DRIVE POS. CAN DIAG SUPPORT MNTR	Attach copy of IPDM E/R CAN DIAG SUPPORT MNTR

A
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LAN

BKIA0083E

CAN SYSTEM (TYPE 2)

[CAN]

CHECK SHEET RESULTS

Case 1

Replace ECM.

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR					
				Receive diagnosis					
				ECM	DISPLAY	METER/MSA	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	✓ CAN COMM	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA2167E

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR					
				Receive diagnosis					
				ECM	DISPLAY	METER/MSA	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA2168E

Case 2

Replace display unit.

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR					
				Receive diagnosis					
				ECM	DISPLAY	METER/MSA	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
Display unit	-	✓ CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA2153E

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR					
				Receive diagnosis					
				ECM	DISPLAY	METER/MSA	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
Display unit	-	CAN COMM	CAN 1	✓3	-	✓5	✓2	-	✓7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA2158E

CAN SYSTEM (TYPE 2)

[CAN]

Case 3

Replace BCM.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	-	UNKW
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-
ABS	-	NG	UNKW	UNKW	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-

WKIA2169E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	-	UNKW
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	✓	UNKW	UNKW	-	UNKW	-	-	UNKW
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-
ABS	-	NG	UNKW	UNKW	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-

WKIA2172E

Case 4

Replace unified meter and A/C amp.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	-	UNKW
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-
ABS	-	NG	UNKW	UNKW	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-

WKIA2177E

Case 5

Replace driver seat control unit.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	-	UNKW
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW
AUTO DRIVE POS.	No indication	✓	UNKW	-	-	UNKW	UNKW	-	-
ABS	-	NG	UNKW	UNKW	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-

WKIA2181E

CAN SYSTEM (TYPE 2)

[CAN]

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR					
				Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDG/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	-	UNKW
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-
ABS	-	NG	UNKW	UNKW	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-

WKIA2184E

Case 6

Replace ABS actuator and electric unit (control unit).

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR					
				Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDG/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	-	UNKW
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-
ABS	-	✓	UNKW	UNKW	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-

WKIA2187E

Case 7

Replace IPDM E/R.

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR					
				Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDG/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	-	UNKW
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-
ABS	-	NG	UNKW	UNKW	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-

WKIA2191E

Case 8

Check harness between data link connector and driver seat control unit. Refer to [LAN-58](#).

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR					
				Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDG/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	-	UNKW
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-
ABS	-	NG	UNKW	UNKW	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-

WKIA2194E

CAN SYSTEM (TYPE 2)

[CAN]

Case 9

Check harness between driver seat control unit and ABS actuator and electric unit (control unit). Refer to [LAN-58](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	-	UNKW
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-
ABS	-	NG	UNKW	UNKW	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-

WKIA2200E

Case 10

Check ECM circuit. Refer to [LAN-59](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	-	UNKW
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-
ABS	-	NG	UNKW	UNKW	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-

WKIA2203E

Case 11

Check display unit circuit. Refer to [LAN-60](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	-	UNKW
Display unit	-	CAN COMM	✓1	✓3	-	✓5	✓2	-	✓7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-
ABS	-	NG	UNKW	UNKW	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-

WKIA2207E

Case 12

Check data link connector circuit. Refer to [LAN-60](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	-	UNKW
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-
ABS	-	NG	UNKW	UNKW	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-

WKIA2209E

Case 13

Check BCM circuit. Refer to [LAN-61](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	DISPLAY	METER/M&A	BCM/SEC	VIX/IGSI/ABS		
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	-	UNKW	
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	✓ CAN 2	-	CAN 7	
METER/A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW	
BCM	No indication ✓	NG	UNKW	UNKW	-	UNKW	-	-	UNKW	
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-	
ABS	-	NG	UNKW	UNKW	-	-	-	-	-	
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-	

WKIA2210E

Case 14

Check unified meter and A/C amp. circuit. Refer to [LAN-61](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	DISPLAY	METER/M&A	BCM/SEC	VIX/IGSI/ABS		
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	-	UNKW	
Display unit	-	CAN COMM	CAN 1	CAN 3	-	✓ CAN 5	CAN 2	-	CAN 7	
METER/A/C AMP	No indication ✓	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW	
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW	
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-	
ABS	-	NG	UNKW	UNKW	-	-	-	-	-	
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-	

WKIA2211E

Case 15

Check driver seat control unit circuit. Refer to [LAN-62](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	DISPLAY	METER/M&A	BCM/SEC	VIX/IGSI/ABS		
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	-	UNKW	
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7	
METER/A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW	
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW	
AUTO DRIVE POS.	No indication ✓	NG	UNKW	-	-	UNKW	UNKW	-	-	
ABS	-	NG	UNKW	UNKW	-	-	-	-	-	
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-	

WKIA2212E

Case 16

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-62](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	DISPLAY	METER/M&A	BCM/SEC	VIX/IGSI/ABS		
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	-	UNKW	
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7	
METER/A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW	
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW	
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-	
ABS	-	NG	✓ UNKW	✓ UNKW	-	-	-	-	-	
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-	

WKIA2213E

Case 17

Check IPDM E/R circuit. Refer to [LAN-63](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCU/ ABS		
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	-	UNKW	
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	UNKW	
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW	
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW	
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-	
ABS	-	NG	UNKW	UNKW	-	-	-	-	-	
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-	

WKIA2214E

Case 18

Check CAN communication circuit. Refer to [LAN-63](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCU/ ABS		
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	-	UNKW	
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	UNKW	
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW	
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW	
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-	
ABS	-	NG	UNKW	UNKW	-	-	-	-	-	
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-	

WKIA2215E

Case 19

Check IPDM E/R.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCU/ ABS		
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	-	UNKW	
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7	
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW	
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW	
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-	
ABS	-	NG	UNKW	UNKW	-	-	-	-	-	
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-	

WKIA2217E

Case 20

Check IPDM E/R Ignition relay circuit. Refer to [LAN-64](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCU/ ABS		
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	-	UNKW	
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7	
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW	
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW	
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-	
ABS	-	NG	UNKW	UNKW	-	-	-	-	-	
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-	

WKIA2220E

Circuit Check Between Driver Seat Control Unit and Data Link Connector**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

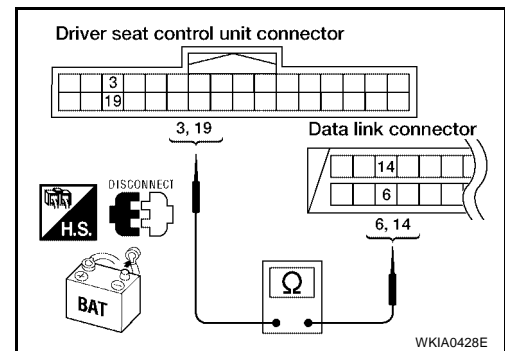
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and data link connector M22 terminals 6 (L), 14 (Y).

- 3 (BR) - 6 (L) : Continuity should exist.**
19 (Y/G) - 14 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-48](#).
 NG >> Repair harness.

**Circuit Check Between Driver Seat Control Unit and ABS Actuator and Electric Unit (Control Unit)****1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2, ABS actuator and electric unit (control unit) connector E125 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

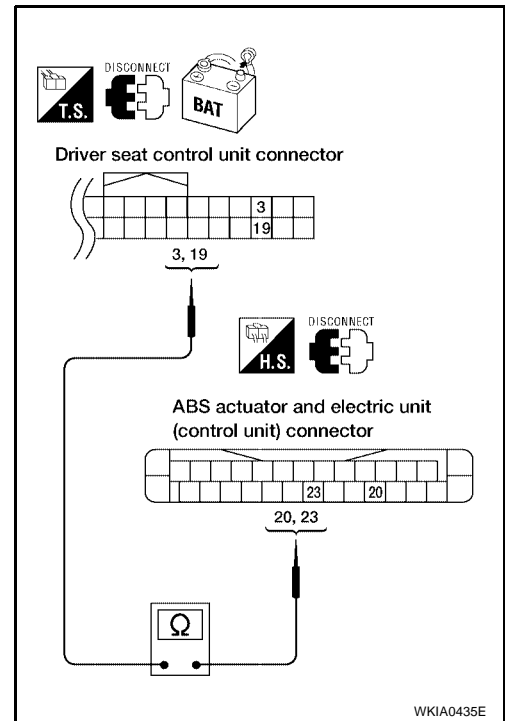
Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and ABS actuator and electric unit (control unit) connector E125 terminals 20 (L), 23 (Y).

3 (BR) - 20 (L) : Continuity should exist.

19 (Y/G) - 23 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-48](#).
- NG >> Repair harness.



ECM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
- NG >> Repair or replace as necessary.

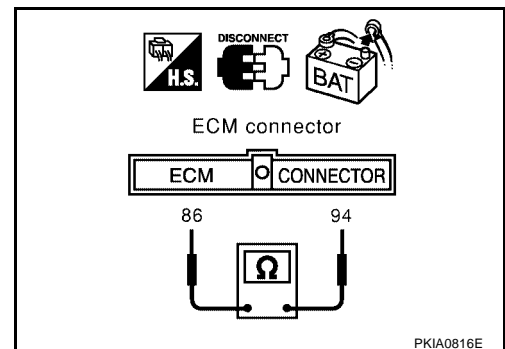
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between ECM connector M82 terminal 94 (L) and terminal 86 (Y).

94 (L) - 86 (Y) : Approx. 108 - 132Ω

OK or NG

- OK >> Replace ECM.
- NG >> Repair harness between ECM connector M82 and data link connector M22.



Display Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect display unit connector M93.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

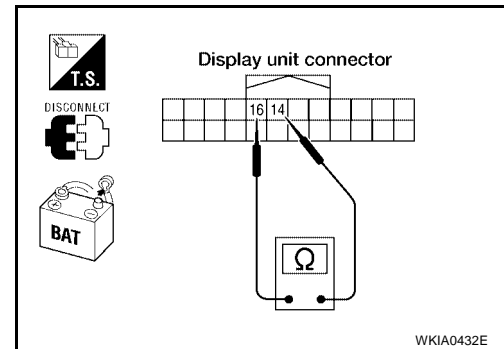
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between display unit connector M93 terminal 25 (L) and terminal 26 (Y).

14 (L) - 16 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace display unit.
 NG >> Repair harness between display unit connector M93 and data link connector M22.



Data Link Connector Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Check data link connector M22 terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

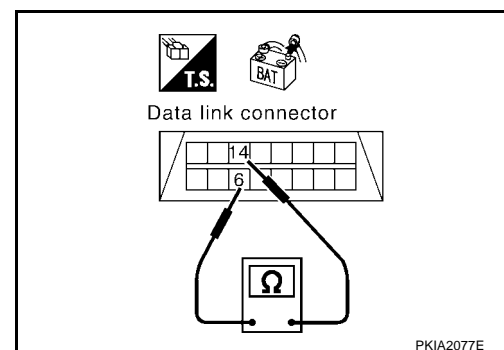
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector M22 terminal 6 (L) and terminal 14 (Y).

6 (L) - 14 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-48](#).
 NG >> Repair harness between data link connector M22 and BCM connector M18.



BCM Circuit Check**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect BCM connector M18.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

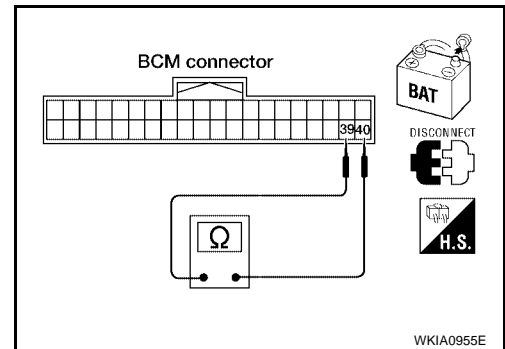
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between BCM connector M18 terminal 39 (L) and terminal 40 (Y).

39 (L) - 40 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace BCM.
 NG >> Repair harness between BCM connector M18 and data link connector M22.

**Unified Meter and A/C Amp. Circuit Check****1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect unified meter and A/C amp. connector M49.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

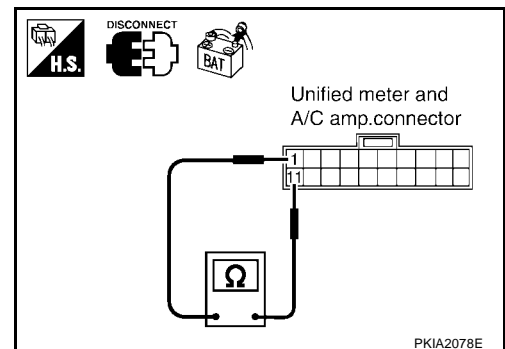
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between unified meter and A/C amp. connector M49 terminal 1 (L) and terminal 11 (Y).

1 (L) - 11 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace unified meter and A/C amp.
 NG >> Repair harness between unified meter and A/C amp. connector M49 and data link connector M22.



Driver Seat Control Unit Circuit Check**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

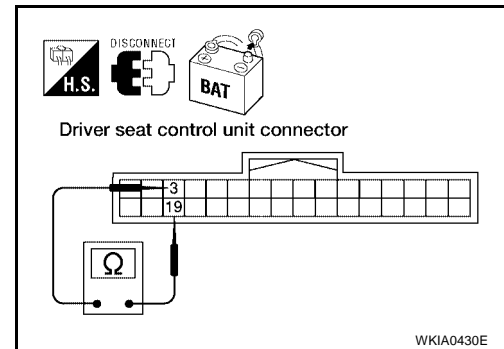
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between driver seat control unit connector P2 terminal 3 (BR) and terminal 19 (Y/G).

3 (BR) - 19 (Y/G) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace driver seat control unit.
 NG >> Repair harness between driver seat control unit connector P2 and data link connector M22.

**ABS Actuator and Electric Unit (Control Unit) Circuit Check****1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ABS actuator and electric unit (control unit) connector E125.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

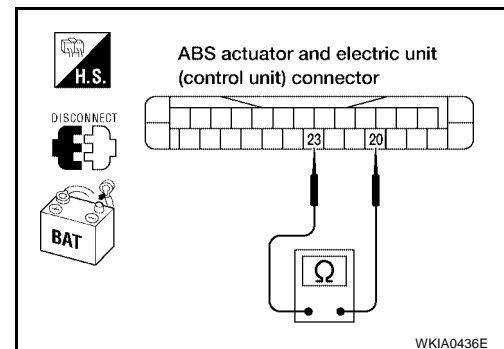
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between ABS actuator and electric unit (control unit) connector E125 terminal 20 (L) and terminal 23 (Y).

20 (L) - 23 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace ABS actuator and electric unit (control unit).
 NG >> Repair harness between ABS actuator and electric unit (control unit) connector E125 and IPDM E/R connector E121.



IPDM E/R Circuit Check**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect IPDM E/R connector E121.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

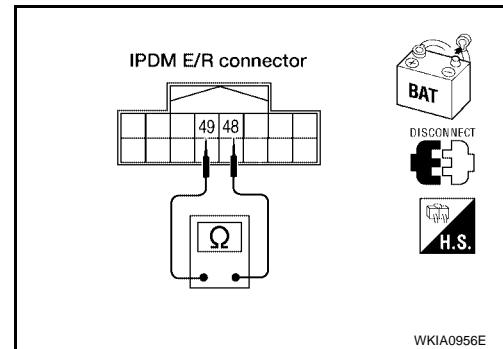
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between IPDM E/R connector E121 terminal 48 (L) and terminal 49 (Y).

48 (L) - 49 (Y) : Approx. 108 - 132Ω

OK or NG

- OK >> Replace IPDM E/R.
 NG >> Repair harness between IPDM E/R connector E121 and ABS actuator and electric unit (control unit) connector E125.

**CAN Communication Circuit Check****1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect the following module and control unit connectors and check terminals for deformation, disconnection, looseness or damage.
 - ECM
 - Display unit
 - BCM (Body control module)
 - Unified meter and A/C amp.
 - Driver seat control unit
 - ABS actuator and electric unit (control unit)
 - IPDM E/R (Intelligent power distribution module engine room)

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

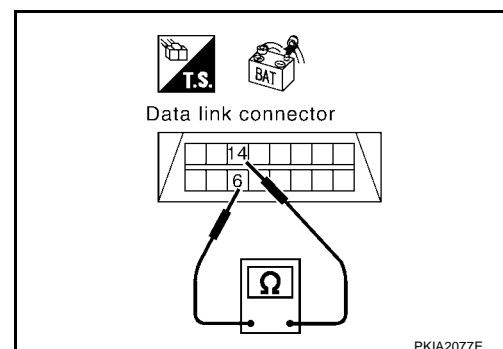
2. CHECK HARNESS FOR SHORTED CIRCUITS

With all module and control unit connectors disconnected, check continuity between data link connector M22 terminals 6 (L) and 14 (Y).

6 (L) - 14 (Y) : Continuity should not exist.

OK or NG

- OK >> GO TO 3.
 NG >> Repair the harness.



3. CHECK HARNESS FOR SHORT TO GROUND

Check continuity between data link connector M22 terminals 6 (L), 14 (Y) and ground.

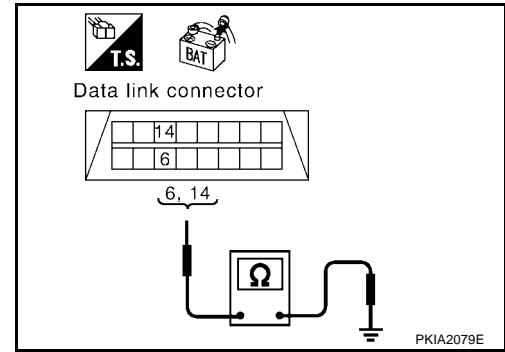
6 (L) - Ground : Continuity should not exist.

14 (Y) - Ground : Continuity should not exist.

OK or NG

OK >> Check ECM and IPDM E/R. Refer to [LAN-64, "Component Inspection"](#).

NG >> Repair the harness.



EKS00506

IPDM E/R Ignition Relay Circuit Check

Check the following. If no problem is found, replace the IPDM E/R.

- IPDM E/R power supply circuit. Refer to [PG-24, "IPDM E/R Power/Ground Circuit Inspection"](#).
- Ignition power supply circuit. Refer to [PG-11, "IGNITION POWER SUPPLY — IGNITION SW. IN ON AND/OR START"](#).

Component Inspection

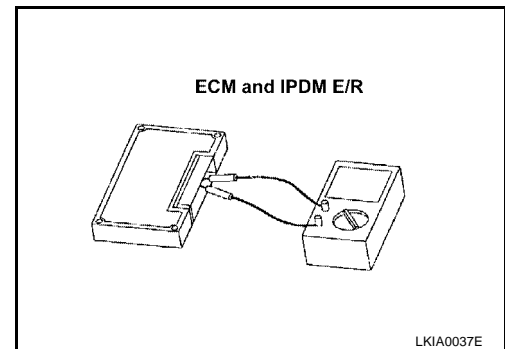
ECM/IPDM E/R INTERNAL CIRCUIT INSPECTION

- Remove ECM and IPDM E/R from vehicle.
- Check resistance between ECM terminals 94 and 86.

94 - 86 : Approx. 108 - 132Ω
- Check resistance between IPDM E/R terminals 48 and 49.

48 - 49 : Approx. 108 - 132Ω

EKS00507



CAN SYSTEM (TYPE 3)

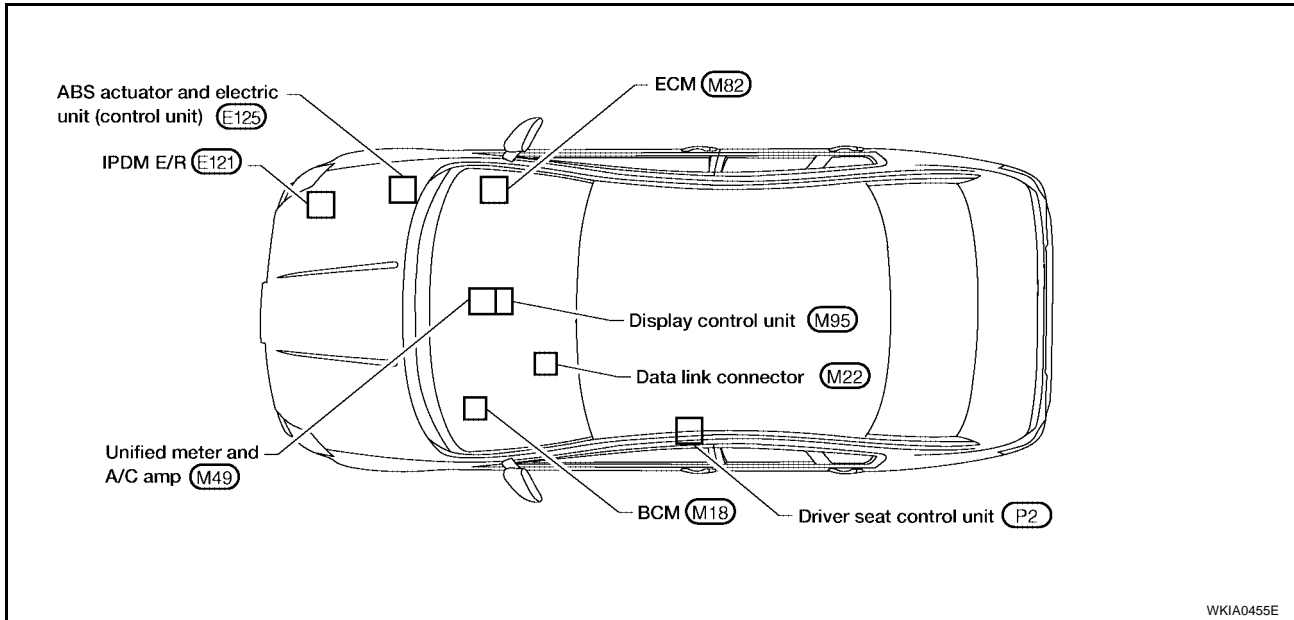
System Description

EKS004Z4

CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H line, CAN L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

Component Parts and Harness Connector Location

EKS004Z5



A
B
C
D
E
F
G
H
I
J
L
M

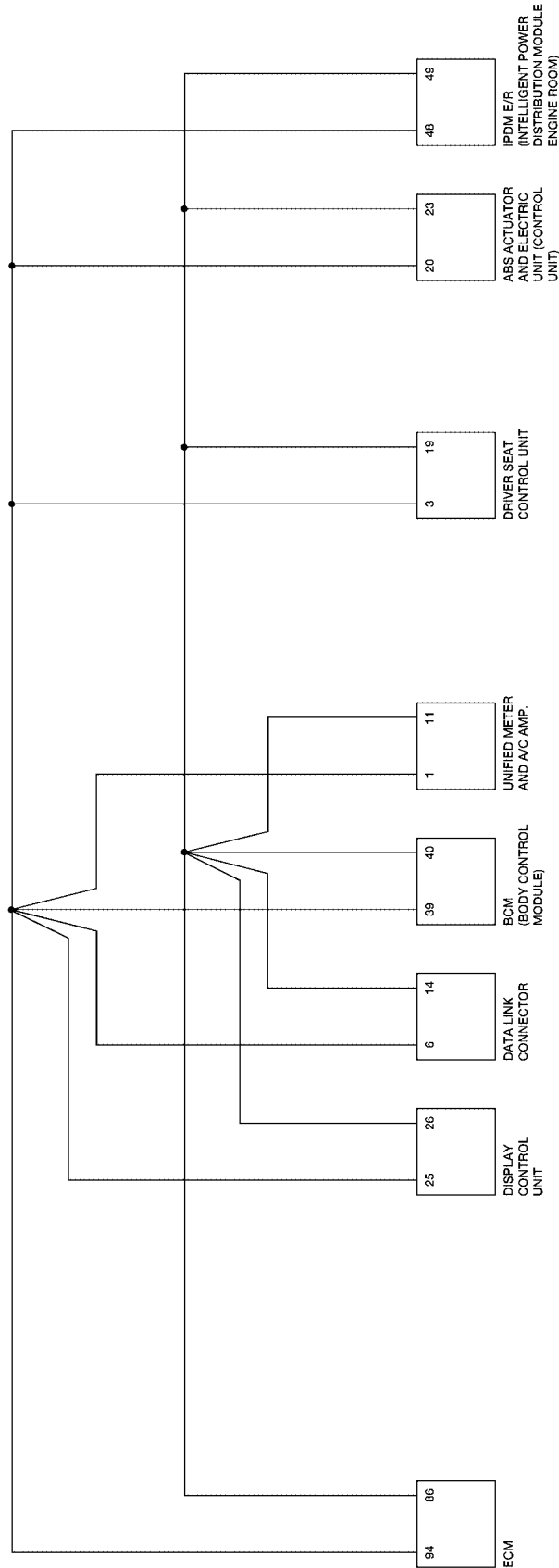
LAN

CAN SYSTEM (TYPE 3)

[CAN]

Schematic

EKS004Z6

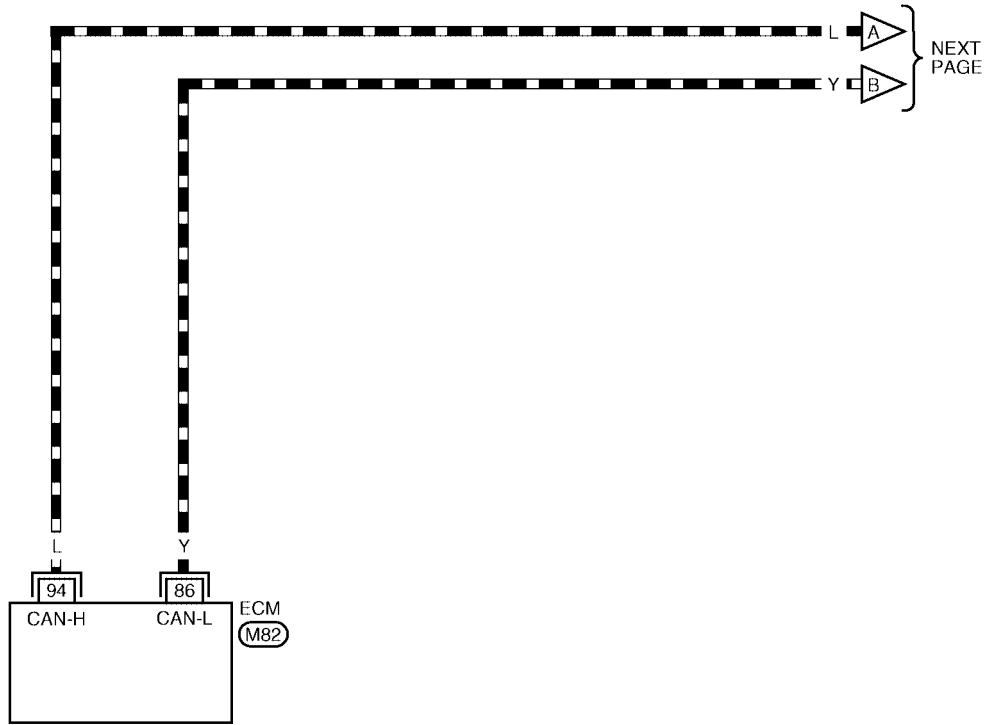


WKWA0445E

Wiring Diagram - CAN -

LAN-CAN-07

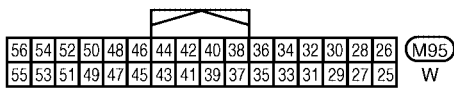
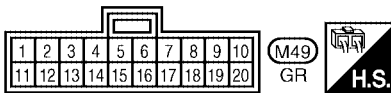
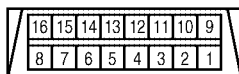
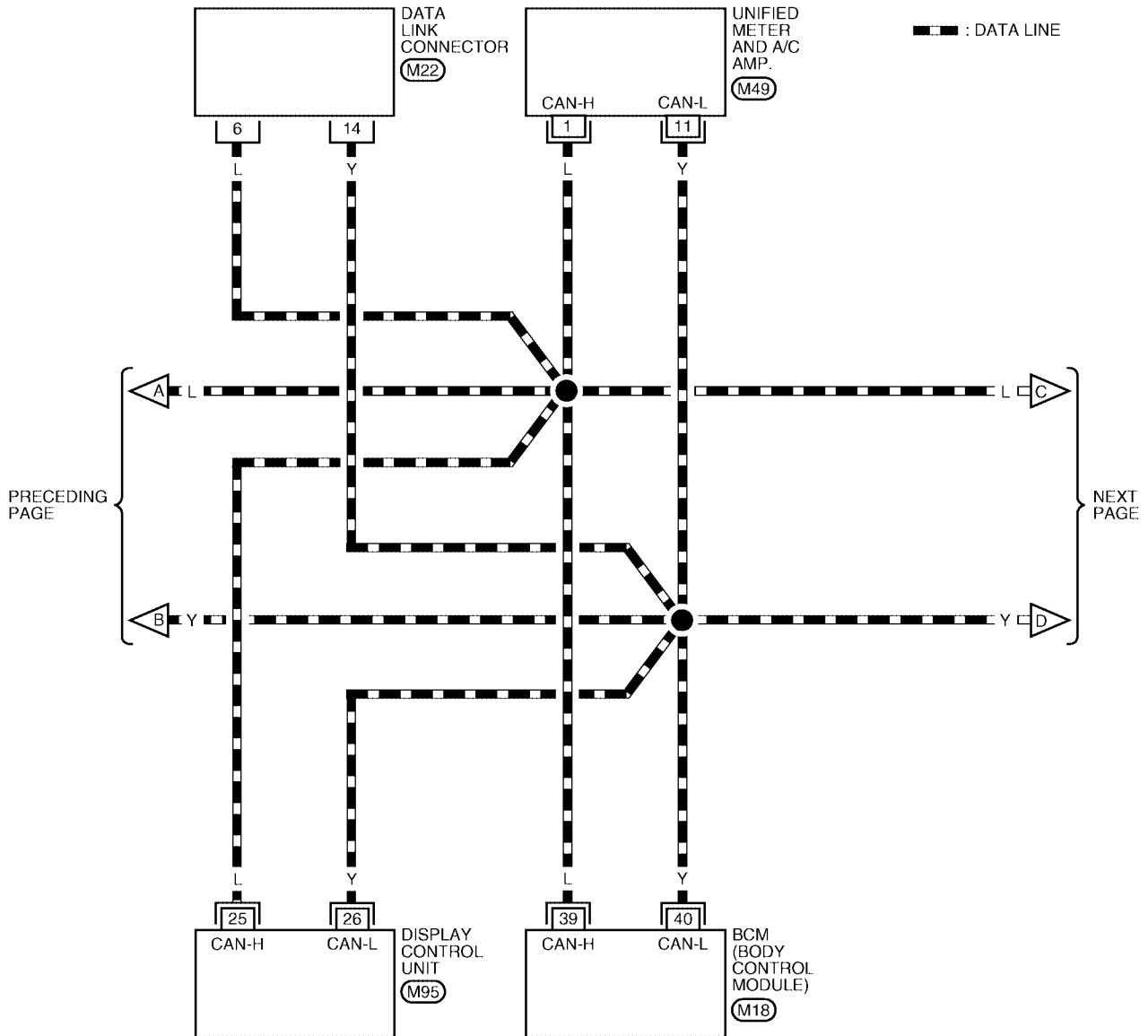
▬ : DATA LINE



A
B
C
D
E
F
G
H
I
J
LAN
L
M

REFER TO THE FOLLOWING.
M82 - ELECTRICAL
UNITS

BKWA0363E

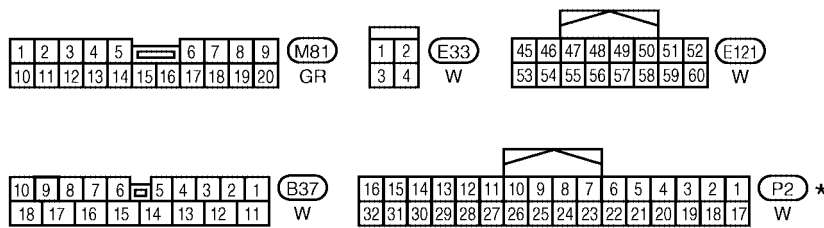
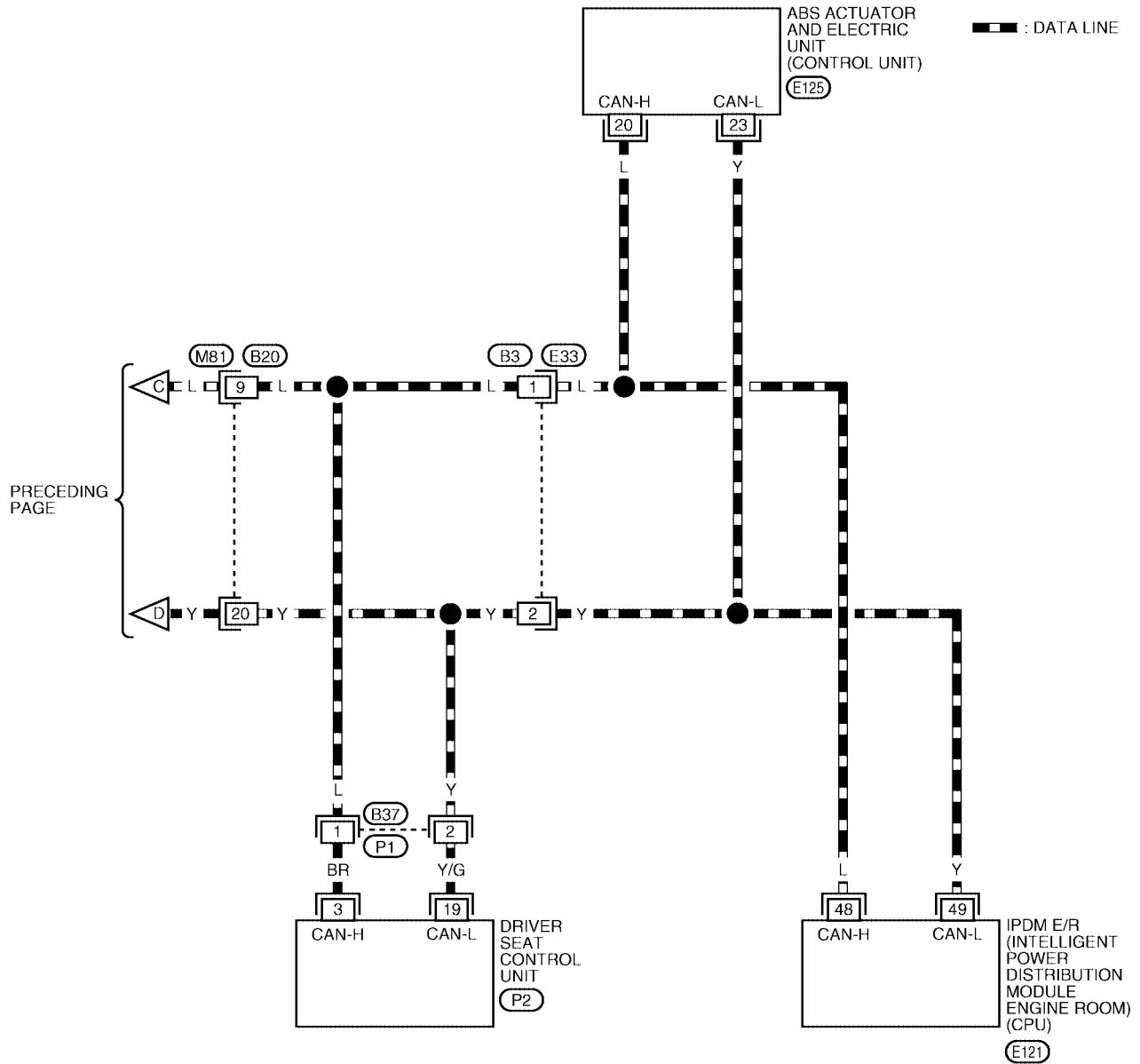


REFER TO THE FOLLOWING.

M18 - ELECTRICAL UNITS

BKWA0364E

LAN-CAN-09



REFER TO THE FOLLOWING.
 (E125) - ELECTRICAL UNITS

* : THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT" OF PG SECTION.

BKWA0365E

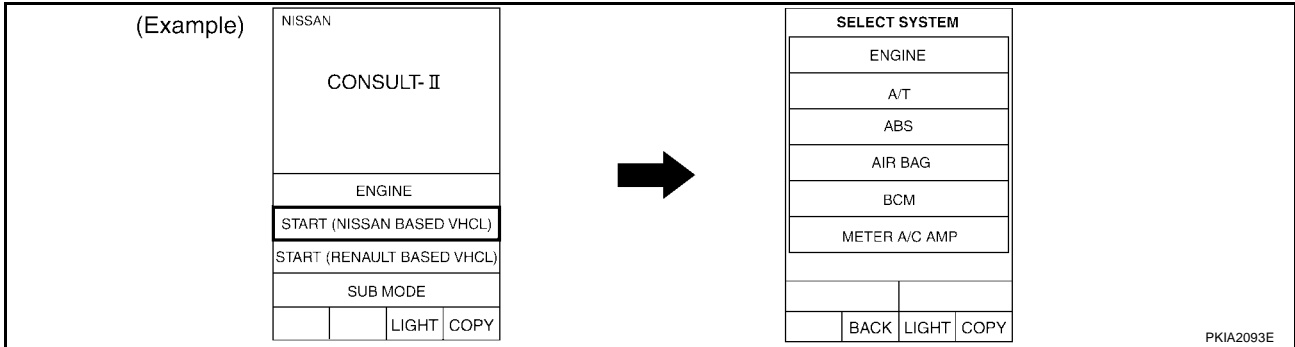
CAN SYSTEM (TYPE 3)

[CAN]

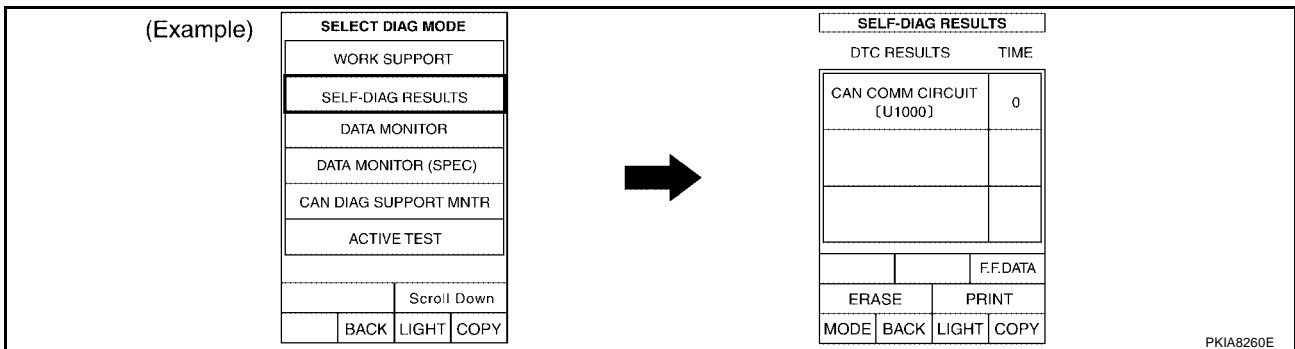
EKS004Z8

Work Flow

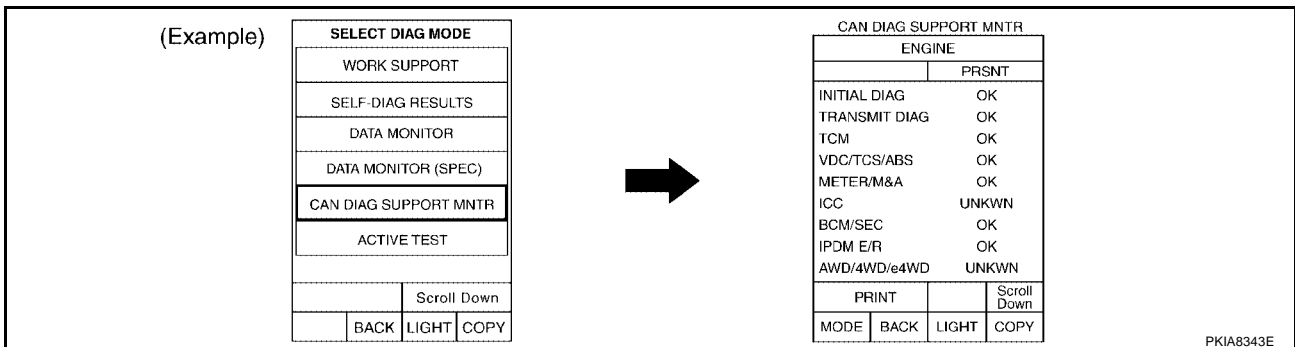
- When there are no indications of "METER A/C AMP", "BCM", "IPDM E/R" or "AUTO DRIVE POS." on "SELECT SYSTEM" display of CONSULT-II, print the "SELECT SYSTEM".



- Print all the data of "SELF-DIAG RESULTS" for "ENGINE", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Print all the data of "CAN DIAG SUPPORT MNTR" for "ENGINE", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Based on the indications of "SELECT SYSTEM" and the results of "CAN DIAG SUPPORT MNTR", put marks onto the items with "No indication", "NG", or "UNKWN" in the check sheet table.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R	
ENGINE	-	NG	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN	
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7	
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	
AUTO DRIVE POS.	No indication	NG	UNKWN	-	-	UNKWN	UNKWN	-	-	
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-	

BKIA0056E

NOTE:

- If "NG" is displayed on "INITIAL DIAG (Initial diagnosis)" as "CAN DIAG SUPPORT MNTR" for the diagnosed control unit, replace the control unit.

CAN SYSTEM (TYPE 3)

[CAN]

-
- The “CAN DIAG SUPPORT MNTR” items which are not in check sheet table are not related to diagnostic procedure on service manual.
Therefore, it is not necessary to check the status of the “CAN DIAG SUPPORT MNTR” items not in check sheet table.
5. Check CAN communication line of the navigation system.
 6. Mark the “NG” or “UNKWN” item of the check sheet table from the result of CAN DIAG SUPPORT MONITOR check sheet.
NOTE:
If “NG” is displayed on “CAN COMM” as “CAN DIAG SUPPORT MNTR” for the diagnosed control unit, replace the control unit.
 7. According to the Check Sheet Results, start inspection.

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L

M

CAN SYSTEM (TYPE 3)

[CAN]

CHECK SHEET

Check sheet table

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

Symptoms:

Attach copy of
SELECT SYSTEM

Attach copy of
SELECT SYSTEM

Attach copy of
display unit
CAN DIAG MONITOR
check sheet

BKIA0076E

CAN SYSTEM (TYPE 3)

[CAN]

Attach copy of ENGINE SELF-DIAG RESULTS	Attach copy of METER A/C AMP SELF-DIAG RESUL	Attach copy of ABS SELF-DIAG RESULTS
Attach copy of BCM SELF-DIAG RESULTS	Attach copy of AUTO DRIVE POS. SELF-DIAG RESULTS	Attach copy of IPDM E/R SELF-DIAG RESULTS
Attach copy of ENGINE CAN DIAG SUPPORT MNTR	Attach copy of METER A/C AMP CAN DIAG SUPPORT MNTR	Attach copy of ABS CAN DIAG SUPPORT MNTR
Attach copy of BCM CAN DIAG SUPPORT MNTR	Attach copy of AUTO DRIVE POS. CAN DIAG SUPPORT MNTR	Attach copy of IPDM E/R CAN DIAG SUPPORT MNTR

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BKIA0083E

CAN SYSTEM (TYPE 3)

[CAN]

CHECK SHEET RESULTS

Case 1

Replace ECM.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT R							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/ MSA	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	✓ CAN COMM	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA2248E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT R							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/ MSA	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	-	✓ UNKWN	✓ UNKWN	-	✓ UNKWN
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA2249E

Case 2

Replace display control unit.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT R							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/ MSA	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
Display control unit	-	✓ CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA2250E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT R							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/ MSA	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
Display control unit	-	CAN COMM	CAN CIRC 1	✓ CAN CIRC 3	-	✓ CAN CIRC 5	✓ CAN CIRC 2	-	✓ CAN CIRC 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA2251E

CAN SYSTEM (TYPE 3)

[CAN]

Case 3

Replace BCM.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	-	UNKW
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-
ABS	-	NG	UNKW	UNKW	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-

WKIA2252E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	-	UNKW
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	✓	UNKW	UNKW	-	UNKW	-	-	UNKW
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-
ABS	-	NG	UNKW	UNKW	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-

WKIA2253E

Case 4

Replace unified meter and A/C amp.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	-	UNKW
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-
ABS	-	NG	UNKW	UNKW	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-

WKIA2254E

Case 5

Replace driver seat control unit.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	-	UNKW
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW
AUTO DRIVE POS.	No indication	✓	UNKW	-	-	UNKW	UNKW	-	-
ABS	-	NG	UNKW	UNKW	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-

WKIA2255E

CAN SYSTEM (TYPE 3)

[CAN]

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR					
				Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	-	UNKW
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-
ABS	-	NG	UNKW	UNKW	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-

WKIA2259E

Case 6

Replace ABS actuator and electric unit (control unit).

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR					
				Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	-	UNKW
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-
ABS	-	✓	UNKW	UNKW	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-

WKIA2262E

Case 7

Replace IPDM E/R.

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR					
				Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	-	UNKW
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-
ABS	-	NG	UNKW	UNKW	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	✓	-	UNKW	✓	-

WKIA2266E

Case 8

Check harness between data link connector and driver seat control unit. Refer to [LAN-80](#).

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR					
				Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	-	UNKW
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-
ABS	-	NG	UNKW	UNKW	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-

WKIA2271E

CAN SYSTEM (TYPE 3)

[CAN]

Case 9

Check harness between driver seat control unit and ABS actuator and electric unit (control unit). Refer to [LAN-80](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTNR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	-	UNKW
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-
ABS	-	NG	UNKW	UNKW	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-

WKIA2279E

Case 10

Check ECM circuit. Refer to [LAN-81](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTNR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	-	UNKW
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-
ABS	-	NG	UNKW	UNKW	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-

WKIA2283E

Case 11

Check display control unit circuit. Refer to [LAN-82](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTNR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	-	UNKW
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-
ABS	-	NG	UNKW	UNKW	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-

WKIA2291E

Case 12

Check data link connector circuit. Refer to [LAN-82](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTNR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	-	UNKW
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-
ABS	-	NG	UNKW	UNKW	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-

WKIA2297E

Case 13

Check BCM circuit. Refer to [LAN-83](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VIC/IGSI/ ABS		
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	-	UNKW	
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7	
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW	
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW	
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-	
ABS	-	NG	UNKW	UNKW	-	-	-	-	-	
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-	

WKIA2307E

Case 14

Check unified meter and A/C amp. circuit. Refer to [LAN-83](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VIC/IGSI/ ABS		
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	-	UNKW	
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7	
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW	
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW	
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-	
ABS	-	NG	UNKW	UNKW	-	-	-	-	-	
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-	

WKIA2314E

Case 15

Check driver seat control unit circuit. Refer to [LAN-84](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VIC/IGSI/ ABS		
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	-	UNKW	
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7	
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW	
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW	
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-	
ABS	-	NG	UNKW	UNKW	-	-	-	-	-	
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-	

WKIA2322E

Case 16

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-84](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VIC/IGSI/ ABS		
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	-	UNKW	
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7	
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW	
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW	
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-	
ABS	-	NG	UNKW	UNKW	-	-	-	-	-	
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-	

WKIA2326E

Case 17

Check IPDM E/R circuit. Refer to [LAN-85](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS		
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	-	UNKW	
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7	
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW	
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW	
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-	
ABS	-	NG	UNKW	UNKW	-	-	-	-	-	
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-	

WKIA2333E

Case 18

Check CAN communication circuit. Refer to [LAN-85](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS		
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	-	UNKW	
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7	
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW	
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW	
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-	
ABS	-	NG	UNKW	UNKW	-	-	-	-	-	
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-	

WKIA2336E

Case 19

Check IPDM E/R.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS		
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	-	UNKW	
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7	
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW	
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW	
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-	
ABS	-	NG	UNKW	UNKW	-	-	-	-	-	
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-	

WKIA2343E

Case 20

Check IPDM E/R Ignition relay circuit. Refer to [LAN-86](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS		
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	-	UNKW	
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7	
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW	
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW	
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-	
ABS	-	NG	UNKW	UNKW	-	-	-	-	-	
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-	

WKIA2346E

Circuit Check Between Driver Seat Control Unit and Data Link Connector**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

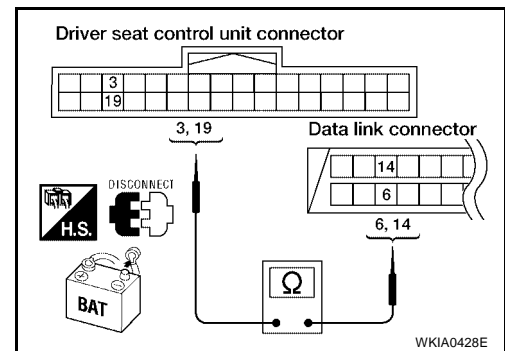
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and data link connector M22 terminals 6 (L), 14 (Y).

- 3 (BR) - 6 (L) : Continuity should exist.**
19 (Y/G) - 14 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-70](#).
 NG >> Repair harness.

**Circuit Check Between Driver Seat Control Unit and ABS Actuator and Electric Unit (Control Unit)****1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2, ABS actuator and electric unit (control unit) connector E125 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

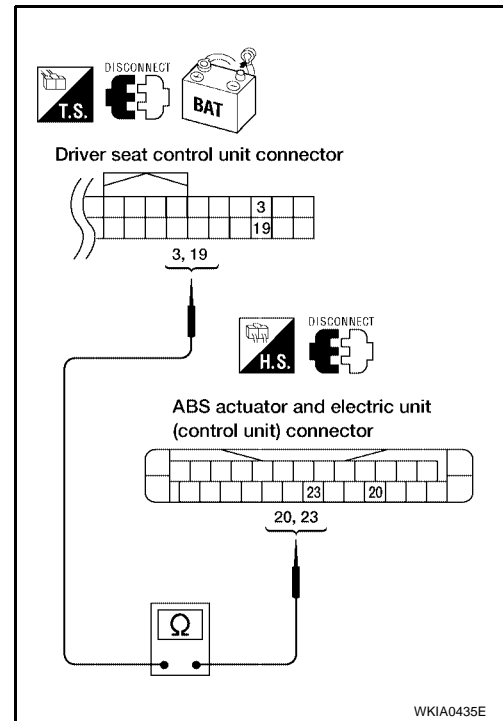
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and ABS actuator and electric unit (control unit) connector E125 terminals 20 (L), 23 (Y).

3 (BR) - 20 (L) : Continuity should exist.
19 (Y/G) - 23 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-70](#).
 NG >> Repair harness.



EKS004ZC

ECM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

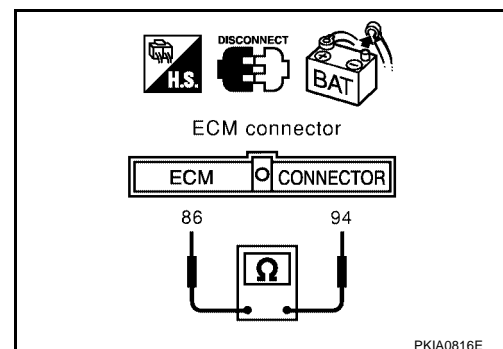
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between ECM connector M82 terminal 94 (L) and terminal 86 (Y).

94 (L) - 86 (Y) : Approx. 108 - 132Ω

OK or NG

- OK >> Replace ECM.
 NG >> Repair harness between ECM connector M82 and data link connector M22.



PKIA0816E

Display Control Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect display control unit connector M95.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

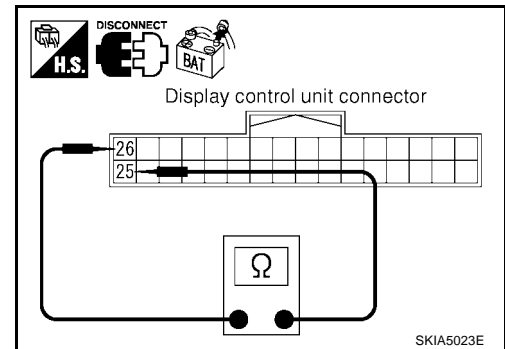
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between display control unit connector M95 terminal 25 (L) and terminal 26 (Y).

25 (L) - 26 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace display control unit.
 NG >> Repair harness between display control unit connector M95 and data link connector M22.



Data Link Connector Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Check data link connector M22 terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

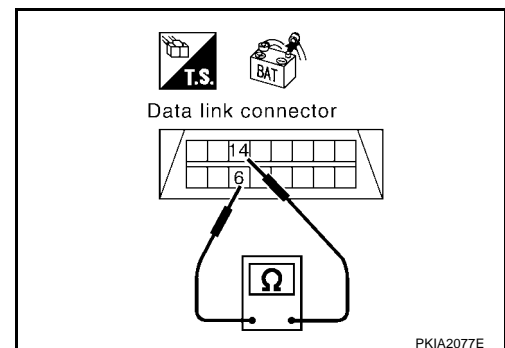
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector M22 terminal 6 (L) and terminal 14 (Y).

6 (L) - 14 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-70](#) .
 NG >> Repair harness between data link connector M22 and BCM connector M18.



BCM Circuit Check**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect BCM connector M18.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

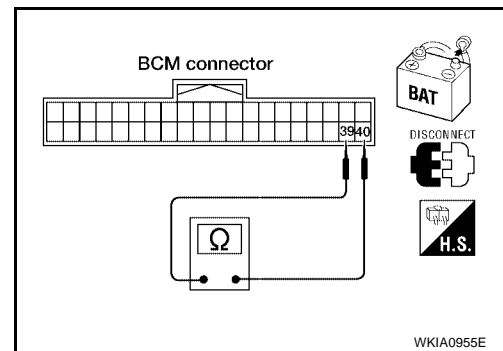
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between BCM connector M18 terminal 39 (L) and terminal 40 (Y).

39 (L) - 40 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace BCM.
 NG >> Repair harness between BCM connector M18 and data link connector M22.

**Unified Meter and A/C Amp. Circuit Check****1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect unified meter and A/C amp. connector M49.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

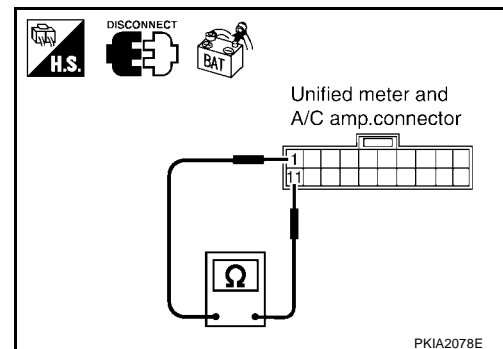
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between unified meter and A/C amp. connector M49 terminal 1 (L) and terminal 11 (Y).

1 (L) - 11 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace unified meter and A/C amp.
 NG >> Repair harness between unified meter and A/C amp. connector M49 and data link connector M22.



Driver Seat Control Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

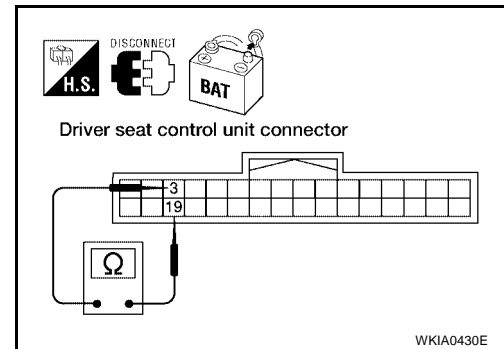
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between driver seat control unit connector P2 terminal 3 (BR) and terminal 19 (Y/G).

3 (BR) - 19 (Y/G) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace driver seat control unit.
 NG >> Repair harness between driver seat control unit connector P2 and data link connector M22.



ABS Actuator and Electric Unit (Control Unit) Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ABS actuator and electric unit (control unit) connector E125.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

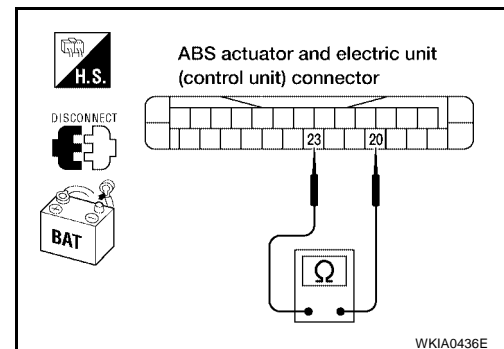
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between ABS actuator and electric unit (control unit) connector E125 terminal 20 (L) and terminal 23 (Y).

20 (L) - 23 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace ABS actuator and electric unit (control unit).
 NG >> Repair harness between ABS actuator and electric unit (control unit) connector E125 and IPDM E/R connector E121.



IPDM E/R Circuit Check**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect IPDM E/R connector E121.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

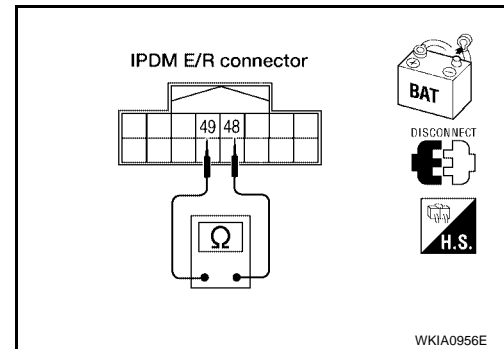
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between IPDM E/R connector E121 terminal 48 (L) and terminal 49 (Y).

48 (L) - 49 (Y) : Approx. 108 - 132Ω

OK or NG

- OK >> Replace IPDM E/R.
 NG >> Repair harness between IPDM E/R connector E121 and ABS actuator and electric unit (control unit) connector E125.

**CAN Communication Circuit Check****1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect the following module and control unit connectors and check terminals for deformation, disconnection, looseness or damage.
 - ECM
 - Display control unit
 - BCM (Body control module)
 - Unified meter and A/C amp.
 - Driver seat control unit
 - ABS actuator and electric unit (control unit)
 - IPDM E/R (Intelligent power distribution module engine room)

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

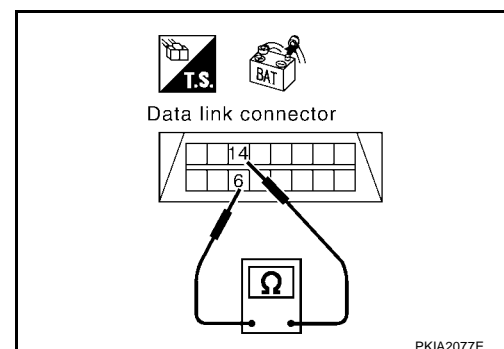
2. CHECK HARNESS FOR SHORTED CIRCUITS

With all module and control unit connectors disconnected, check continuity between data link connector M22 terminals 6 (L) and 14 (Y).

6 (L) - 14 (Y) : Continuity should not exist.

OK or NG

- OK >> GO TO 3.
 NG >> Repair the harness.



3. CHECK HARNESS FOR SHORT TO GROUND

Check continuity between data link connector M22 terminals 6 (L), 14 (Y) and ground.

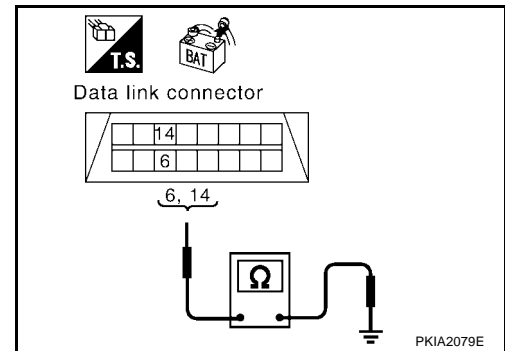
6 (L) - Ground : Continuity should not exist.

14 (Y) - Ground : Continuity should not exist.

OK or NG

OK >> Check ECM and IPDM E/R. Refer to [LAN-65, "Component Parts and Harness Connector Location" LAN-65](#).

NG >> Repair the harness.



EKS004ZM

IPDM E/R Ignition Relay Circuit Check

Check the following. If no problem is found, replace the IPDM E/R.

- IPDM E/R power supply circuit. Refer to [PG-24, "IPDM E/R Power/Ground Circuit Inspection"](#).
- Ignition power supply circuit. Refer to [PG-11, "IGNITION POWER SUPPLY — IGNITION SW. IN ON AND/OR START"](#).

Component Inspection

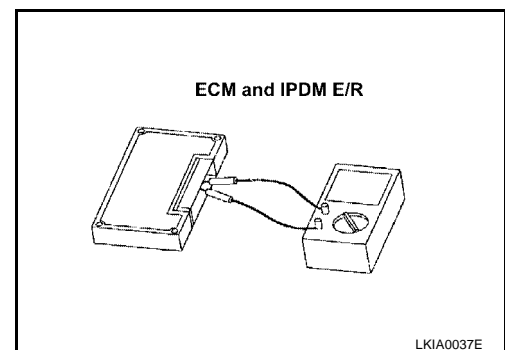
ECM/IPDM E/R INTERNAL CIRCUIT INSPECTION

- Remove ECM and IPDM E/R from vehicle.
- Check resistance between ECM terminals 94 and 86.

94 - 86 : Approx. 108 - 132Ω
- Check resistance between IPDM E/R terminals 48 and 49.

48 - 49 : Approx. 108 - 132Ω

EKS004ZN



LKIA0037E

CAN SYSTEM (TYPE 4)

PFP:23710

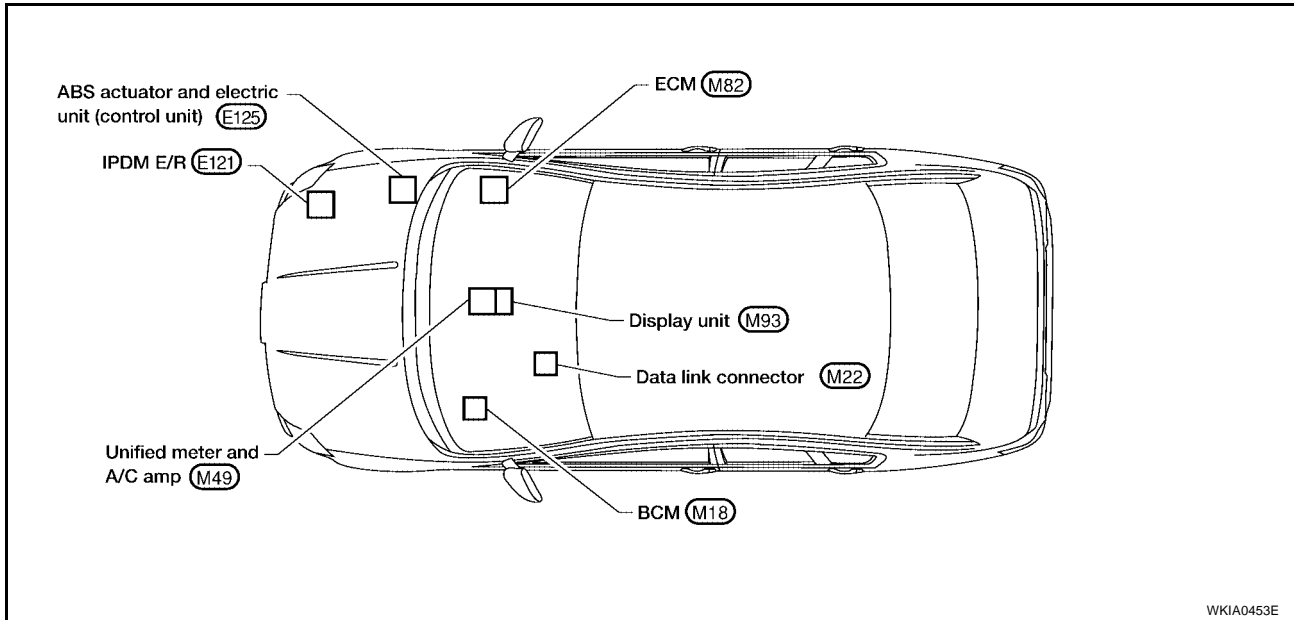
System Description

EKS00A6K

CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H line, CAN L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

Component Parts and Harness Connector Location

EKS00A6L



A
B
C
D
E
F
G
H
I
J
L
M

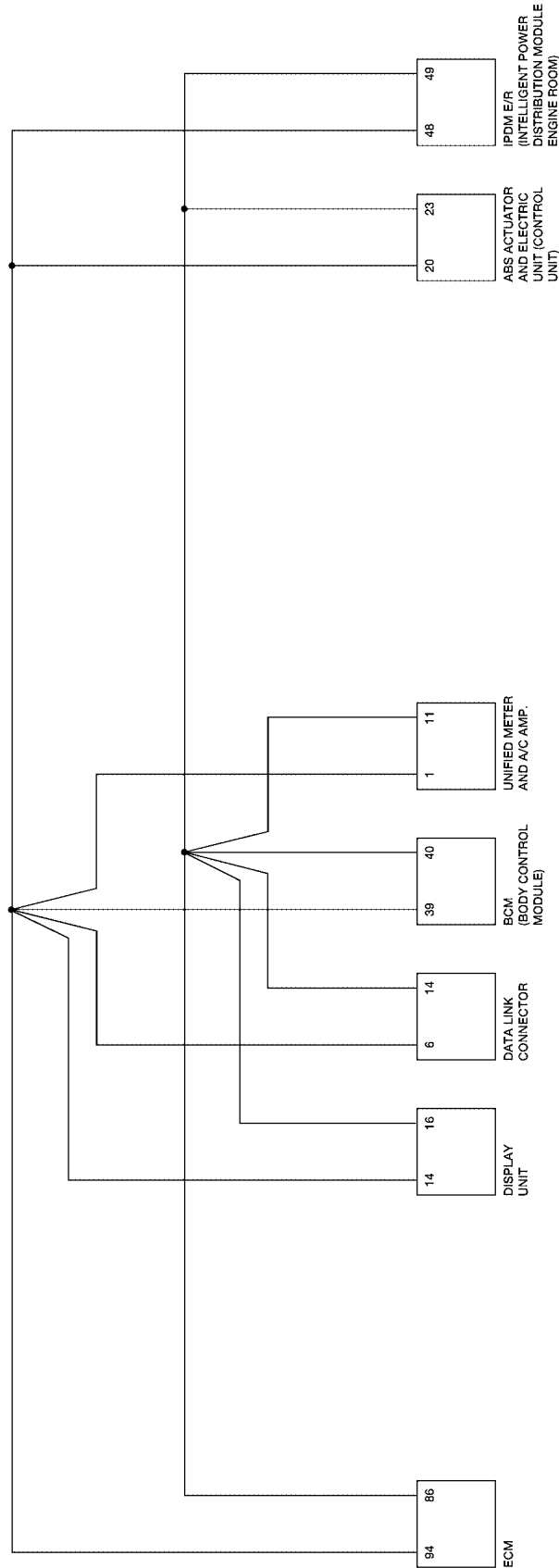
LAN

CAN SYSTEM (TYPE 4)

[CAN]

Schematic

EKS00A6M

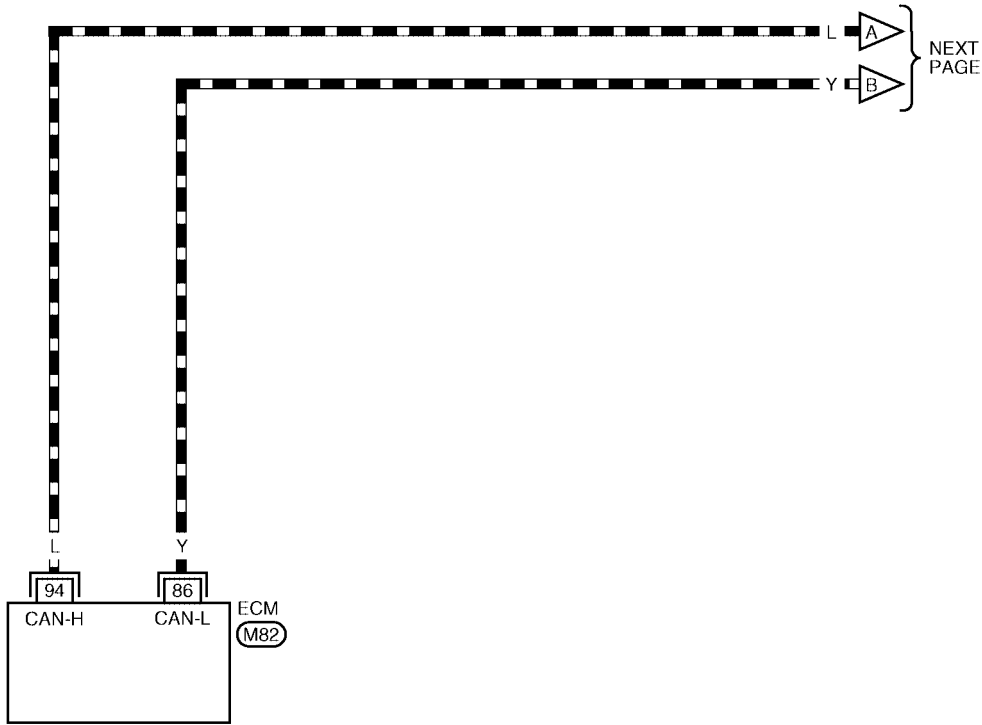


WKWA0453E

Wiring Diagram - CAN -

LAN-CAN-10

▬ : DATA LINE

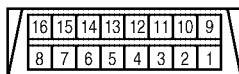
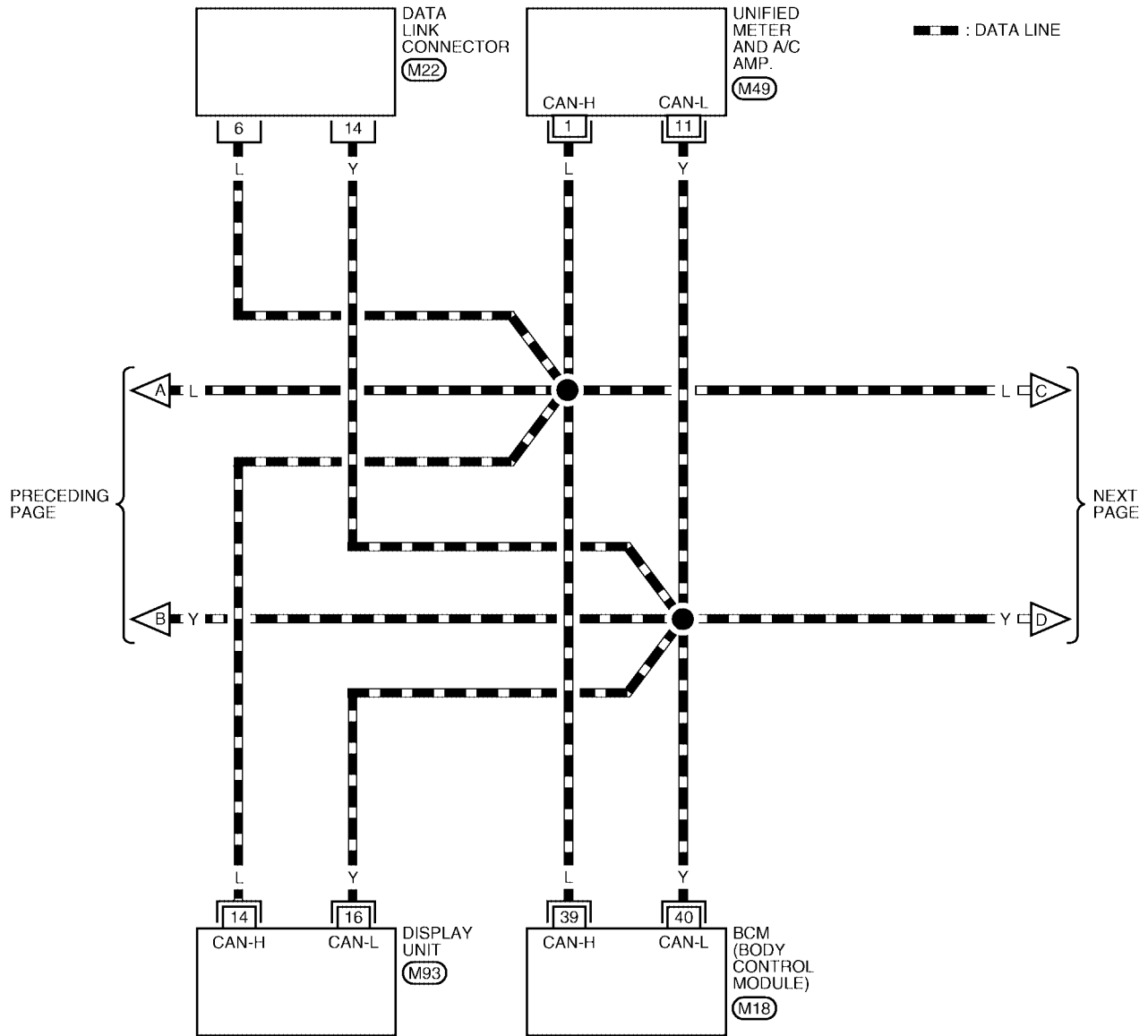


A
B
C
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L
M

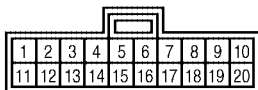
LAN

REFER TO THE FOLLOWING.
M82 - ELECTRICAL
UNITS

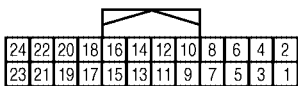
LAN-CAN-11



(M22)
W



(M49)
GR

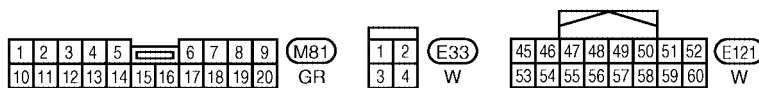
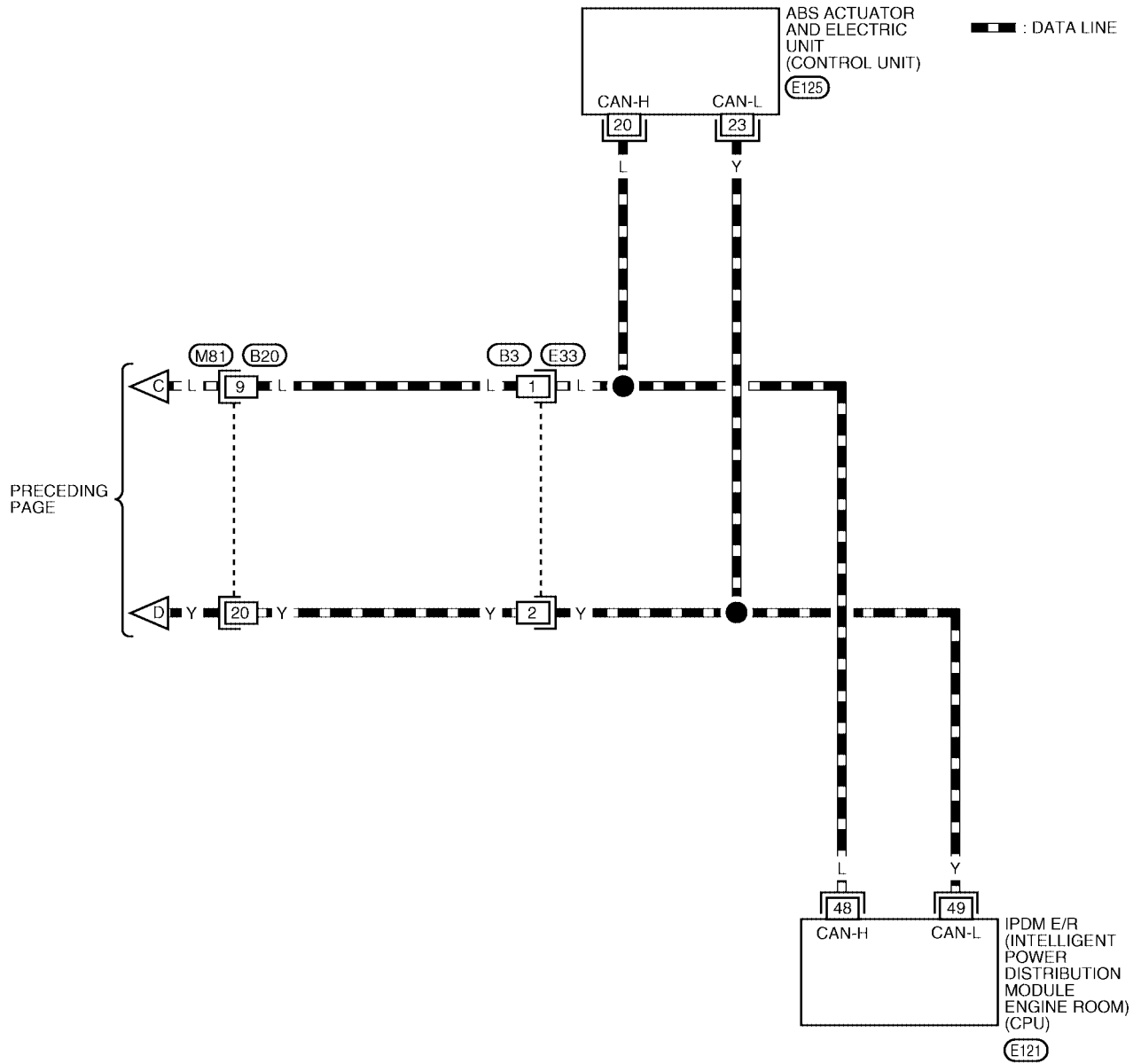


(M93)
W

REFER TO THE FOLLOWING.

(M18) - ELECTRICAL UNITS

LAN-CAN-12



REFER TO THE FOLLOWING.
 (E125) - ELECTRICAL UNITS

BKWA0209E

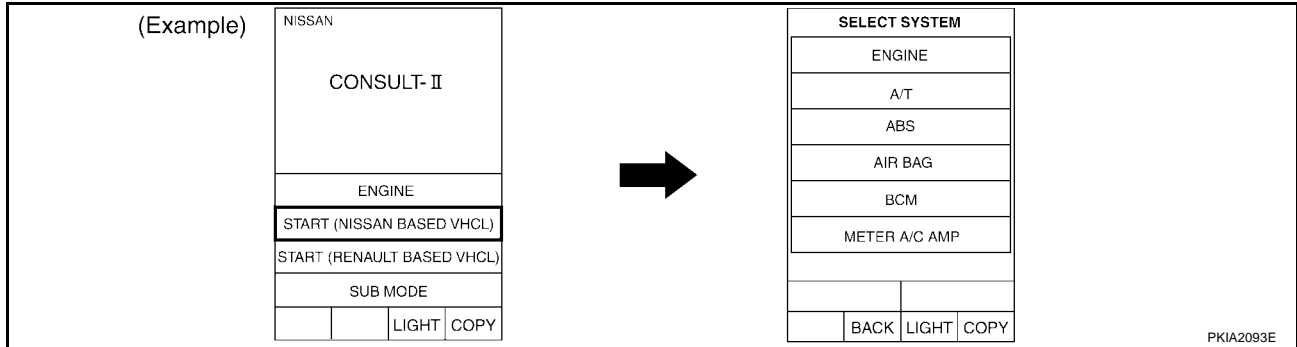
CAN SYSTEM (TYPE 4)

[CAN]

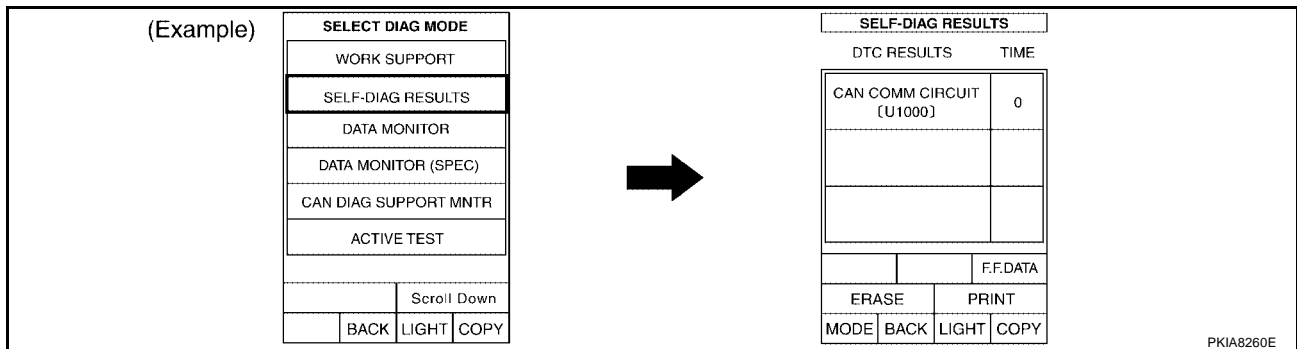
EKS00A60

Work Flow

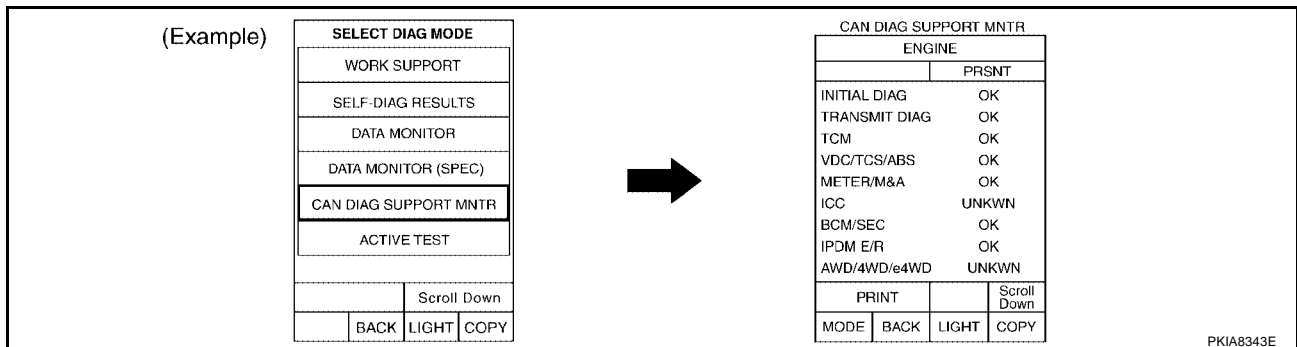
- When there are no indications of "METER A/C AMP", "BCM" or "IPDM E/R" on "SELECT SYSTEM" display of CONSULT-II, print the "SELECT SYSTEM".



- Print all the data of "SELF-DIAG RESULTS" for "ENGINE", "BCM", "METER A/C AMP", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Print all the data of "CAN DIAG SUPPORT MNTR" for "ENGINE", "BCM", "METER A/C AMP", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Based on the indications of "SELECT SYSTEM" and the results of "CAN DIAG SUPPORT MNTR", put marks onto the items with "No display", "NG", or "UNKWN" in the check sheet table.

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR								
	Initial diagnosis	Transmit diagnosis	ECM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R	
ENGINE	NG	UNKWN			UNKWN	UNKWN	UNKWN	UNKWN	
Display unit	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7	-
METER A/C AMP	No indication	-	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA3049E

NOTE:

- If "NG" is displayed on "INITIAL DIAG (Initial diagnosis)" as "CAN DIAG SUPPORT MNTR" for the diagnosed control unit, replace the control unit.

CAN SYSTEM (TYPE 4)

[CAN]

-
- The “CAN DIAG SUPPORT MNTR” items which are not in check sheet table are not related to diagnostic procedure on service manual.
Therefore, it is not necessary to check the status of the “CAN DIAG SUPPORT MNTR” items not in check sheet table.
5. Mark the “NG” or “UNKWN” item of the check sheet table from the result of CAN DIAG SUPPORT MONITOR check sheet.
- NOTE:**
If “NG” is displayed on “CAN COMM” as “CAN DIAG SUPPORT MNTR” for the diagnosed control unit, replace the control unit.
6. According to the Check Sheet Results, start inspection.

A

B

C

D

E

F

G

H

I

J

LAN

L

M

CAN SYSTEM (TYPE 4)

[CAN]

CHECK SHEET

Check sheet table

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

Symptoms:

Attach copy of
SELECT SYSTEM

Attach copy of
SELECT SYSTEM

Attach copy of
display unit
CAN DIAG MONITOR
check sheet

BKIA0074E

CAN SYSTEM (TYPE 4)

[CAN]

Attach copy of ENGINE SELF-DIAG RESULTS	Attach copy of METER A/C AMP SELF-DIAG RESULTS	Attach copy of ABS SELF-DIAG RESULTS
Attach copy of BCM SELF-DIAG RESULTS	Attach copy of IPDM E/R SELF-DIAG RESULTS	
Attach copy of ENGINE CAN DIAG SUPPORT MNTR	Attach copy of METER A/C AMP CAN DIAG SUPPORT MNTR	Attach copy of ABS CAN DIAG SUPPORT MNTR
Attach copy of BCM CAN DIAG SUPPORT MNTR	Attach copy of IPDM E/R CAN DIAG SUPPORT MNTR	

A
B
C
D
E
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H
I
J
L
M

LAN

BKIA0082E

CAN SYSTEM (TYPE 4)

[CAN]

CHECK SHEET RESULTS

Case 1

Replace ECM.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					VDC/TCS/ ABS	IPDM E/R
				ECM	DISPLAY	METER/ M&A	BCM/SEC			
ENGINE	-	✓	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN	
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7	
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-	

WKIA3050E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					VDC/TCS/ ABS	IPDM E/R
				ECM	DISPLAY	METER/ M&A	BCM/SEC			
ENGINE	-	NG	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7	
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-	

WKIA3051E

Case 2

Replace display unit.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					VDC/TCS/ ABS	IPDM E/R
				ECM	DISPLAY	METER/ M&A	BCM/SEC			
ENGINE	-	NG	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	
Display unit	-	✓	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7	
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-	

WKIA3052E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					VDC/TCS/ ABS	IPDM E/R
				ECM	DISPLAY	METER/ M&A	BCM/SEC			
ENGINE	-	NG	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	
Display unit	-	CAN COMM	CAN 1	✓ 3	-	✓ 5	✓ 2	-	✓ 7	
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-	

WKIA3053E

CAN SYSTEM (TYPE 4)

[CAN]

Case 3

Replace BCM.

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNT'R					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW/N			UNKW/N	UNKW/N	UNKW/N	UNKW/N
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKW/N	UNKW/N	UNKW/N	-	UNKW/N	UNKW/N	UNKW/N
BCM	No indication	NG	UNKW/N	UNKW/N	-	UNKW/N	-	-	UNKW/N
ABS	-	NG	UNKW/N	UNKW/N	-	-	-	-	-
IPDM E/R	No indication	-	UNKW/N	UNKW/N	-	-	UNKW/N	-	-

WKIA3054E

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNT'R					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW/N			UNKW/N	UNKW/N	UNKW/N	UNKW/N
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKW/N	UNKW/N	UNKW/N	-	UNKW/N	UNKW/N	UNKW/N
BCM	No indication	✓	UNKW/N	UNKW/N	-	UNKW/N	-	-	UNKW/N
ABS	-	NG	UNKW/N	UNKW/N	-	-	-	-	-
IPDM E/R	No indication	-	UNKW/N	UNKW/N	-	-	UNKW/N	-	-

WKIA3055E

Case 4

Replace unified meter and A/C amp.

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNT'R					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW/N			UNKW/N	UNKW/N	UNKW/N	UNKW/N
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKW/N	UNKW/N	UNKW/N	-	UNKW/N	UNKW/N	UNKW/N
BCM	No indication	NG	UNKW/N	UNKW/N	-	UNKW/N	-	-	UNKW/N
ABS	-	NG	UNKW/N	UNKW/N	-	-	-	-	-
IPDM E/R	No indication	-	UNKW/N	UNKW/N	-	-	UNKW/N	-	-

WKIA3056E

Case 5

Replace ABS actuator and electric unit (control unit).

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNT'R					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW/N			UNKW/N	UNKW/N	UNKW/N	UNKW/N
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKW/N	UNKW/N	UNKW/N	-	UNKW/N	UNKW/N	UNKW/N
BCM	No indication	NG	UNKW/N	UNKW/N	-	UNKW/N	-	-	UNKW/N
ABS	-	✓	UNKW/N	UNKW/N	-	-	-	-	-
IPDM E/R	No indication	-	UNKW/N	UNKW/N	-	-	UNKW/N	-	-

WKIA3057E

Case 6

Replace IPDM E/R.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R							
		Initial diagnosis	Transmit diagnosis	ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN			UNKWN	UNKWN	UNKWN	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	✓	-	-	✓	-	-

WKIA3058E

Case 7

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to [LAN-101](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R							
		Initial diagnosis	Transmit diagnosis	ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN			UNKWN	UNKWN	✓	✓
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	✓
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	✓	✓
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	✓
ABS	-	NG	UNKWN	✓	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA3059E

Case 8

Check ECM circuit. Refer to [LAN-101](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R							
		Initial diagnosis	Transmit diagnosis	ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	✓			UNKWN	✓	✓	✓
Display unit	-	CAN COMM	CAN 1	✓		CAN 5	CAN 2	-	✓
METER A/C AMP	No indication	-	UNKWN	✓	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	✓	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	✓	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	✓	-	-	UNKWN	-	-

WKIA3060E

Case 9

Check display unit circuit. Refer to [LAN-102](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R							
		Initial diagnosis	Transmit diagnosis	ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN			UNKWN	UNKWN	UNKWN	UNKWN
Display unit	-	CAN COMM	✓	✓		✓	✓	-	✓
METER A/C AMP	No indication	-	UNKWN	UNKWN	✓	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA3061E

Case 10

Check data link connector circuit. Refer to [LAN-102](#).

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNT'R					
				ECM		Receive diagnosis			
ENGINE	-	NG	UNKWN	ECM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA3062E

Case 11

Check BCM circuit. Refer to [LAN-103](#).

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNT'R					
				ECM		Receive diagnosis			
ENGINE	-	NG	UNKWN	ECM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA3063E

Case 12

Check unified meter and A/C amp. circuit. Refer to [LAN-103](#).

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNT'R					
				ECM		Receive diagnosis			
ENGINE	-	NG	UNKWN	ECM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA3064E

Case 13

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-104](#).

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNT'R					
				ECM		Receive diagnosis			
ENGINE	-	NG	UNKWN	ECM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA3065E

CAN SYSTEM (TYPE 4)

[CAN]

Case 14

Check IPDM E/R circuit. Refer to [LAN-104](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTN							
		Initial diagnosis	Transmit diagnosis	ECM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN			UNKWN	UNKWN	UNKWN	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN /
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA3066E

Case 15

Check CAN communication circuit. Refer to [LAN-105](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTN							
		Initial diagnosis	Transmit diagnosis	ECM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN			UNKWN	UNKWN	UNKWN	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN /
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA3067E

Case 16

Check IPDM E/R.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTN							
		Initial diagnosis	Transmit diagnosis	ECM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN			UNKWN	UNKWN	UNKWN	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN /
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA3068E

Case 17

Check IPDM E/R Ignition relay circuit. Refer to [LAN-106](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTN							
		Initial diagnosis	Transmit diagnosis	ECM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN			UNKWN	UNKWN	UNKWN	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN /
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA3069E

Circuit Check Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit)

EKS00A6P

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect memory seat module connector P2, ABS actuator and electric unit (control unit) connector E125 and M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

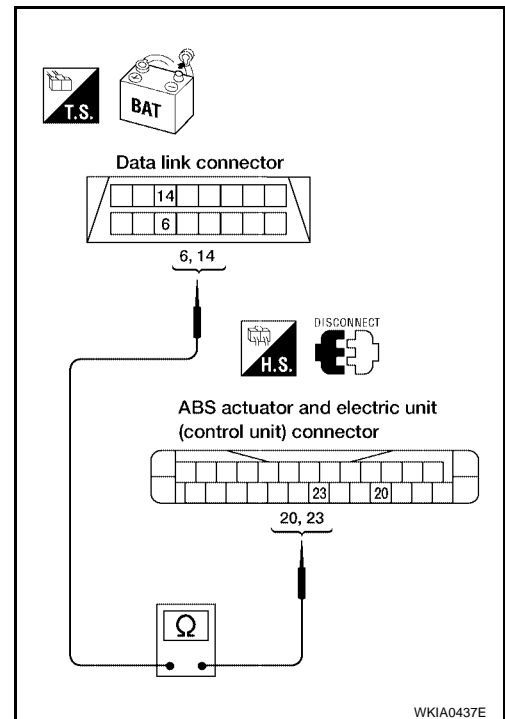
Check continuity between data link connector M22 terminals 6 (L), 14 (Y) and ABS actuator and electric unit (control unit) connector E125 terminals 20 (L), 23 (Y).

6 (L) - 20 (L) : Continuity should exist.

14 (Y) - 23 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-92](#).
 NG >> Repair harness.



ECM Circuit Check

EKS00A6Q

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between ECM connector M82 terminal 94 (L) and terminal 86 (Y).

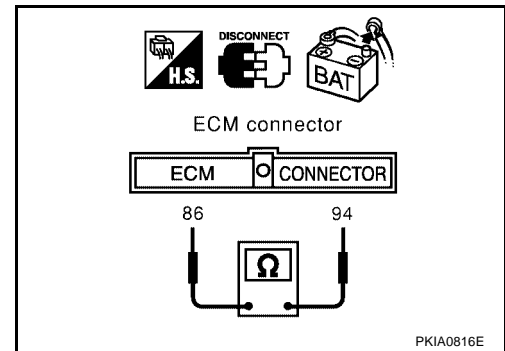
94 (L) - 86 (Y)

: Approx. 108 - 132Ω

OK or NG

OK >> Replace ECM.

NG >> Repair harness between ECM connector M82 and data link connector M22.



Display Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect display unit connector M93.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

OK >> GO TO 2.

NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between display unit connector M93 terminal 25 (L) and terminal 26 (Y).

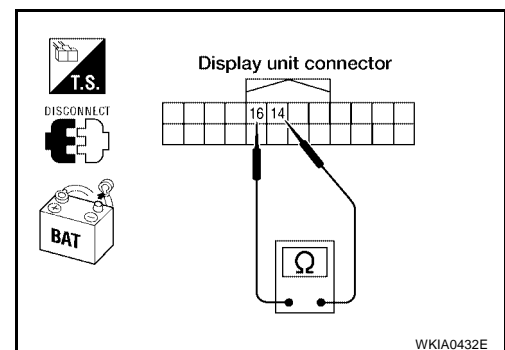
14 (L) - 16 (Y)

: Approx. 54 - 66Ω

OK or NG

OK >> Replace display unit.

NG >> Repair harness between display unit connector M93 and data link connector M22.



Data Link Connector Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Check data link connector M22 terminals for deformation, disconnection, looseness or damage.

OK or NG

OK >> GO TO 2.

NG >> Repair or replace as necessary.

EKS00A6S

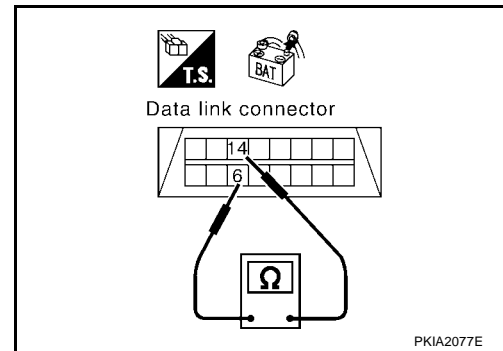
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector M22 terminal 6 (L) and terminal 14 (Y).

6 (L) - 14 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-92](#).
- NG >> Repair harness between data link connector M22 and BCM connector M18.



BCM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect BCM connector M18.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
- NG >> Repair or replace as necessary.

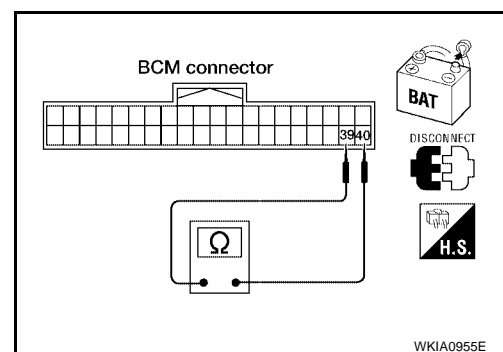
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between BCM connector M18 terminal 39 (L) and terminal 40 (Y).

39 (L) - 40 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace BCM.
- NG >> Repair harness between BCM connector M18 and data link connector M22.



Unified Meter and A/C Amp. Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect unified meter and A/C amp. connector M49.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
- NG >> Repair or replace as necessary.

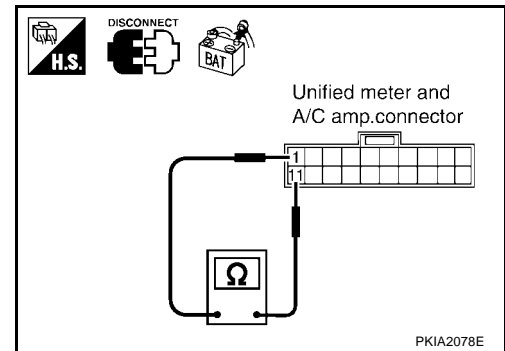
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between unified meter and A/C amp. connector M49 terminal 1 (L) and terminal 11 (Y).

1 (L) - 11 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace unified meter and A/C amp.
 NG >> Repair harness between unified meter and A/C amp. connector M49 and data link connector M22.



ABS Actuator and Electric Unit (Control Unit) Circuit Check

EKS00A6V

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ABS actuator and electric unit (control unit) connector E125.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

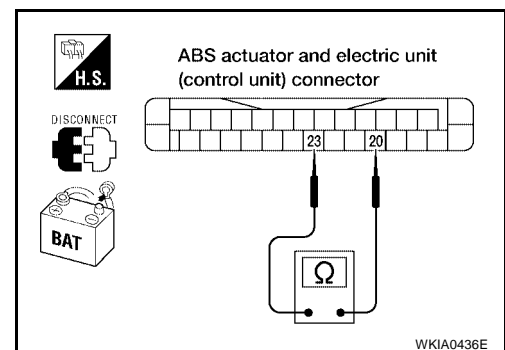
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between ABS actuator and electric unit (control unit) connector E125 terminal 20 (L) and terminal 23 (Y).

20 (L) - 23 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace ABS actuator and electric unit (control unit).
 NG >> Repair harness between ABS actuator and electric unit (control unit) connector E125 and IPDM E/R connector E121.



IPDM E/R Circuit Check

EKS00A6W

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect IPDM E/R connector E121.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

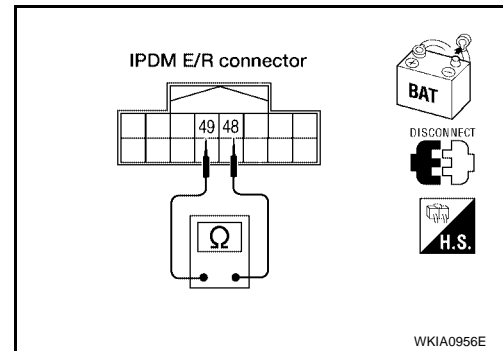
Check resistance between IPDM E/R connector E121 terminal 48 (L) and terminal 49 (Y).

48 (L) - 49 (Y)

: Approx. 108 - 132Ω

OK or NG

- OK >> Replace IPDM E/R.
 NG >> Repair harness between IPDM E/R connector E121 and ABS actuator and electric unit (control unit) connector E125.



CAN Communication Circuit Check

1. CONNECTOR INSPECTION

- Turn ignition switch OFF.
- Disconnect the negative battery terminal.
- Disconnect the following module and control unit connectors and check terminals for deformation, disconnection, looseness or damage.
 - ECM
 - Display unit
 - BCM (Body control module)
 - Unified meter and A/C amp.
 - ABS actuator and electric unit (control unit)
 - IPDM E/R (Intelligent power distribution module engine room)

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR SHORTED CIRCUITS

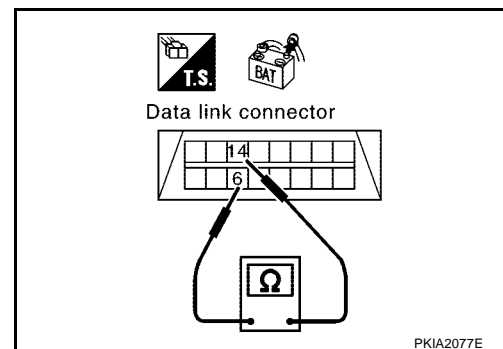
With all module and control unit connectors disconnected, check continuity between data link connector M22 terminals 6 (L) and 14 (Y).

6 (L) - 14 (Y)

: Continuity should not exist.

OK or NG

- OK >> GO TO 3.
 NG >> Repair the harness.



3. CHECK HARNESS FOR SHORT TO GROUND

Check continuity between data link connector M22 terminals 6 (L), 14 (Y) and ground.

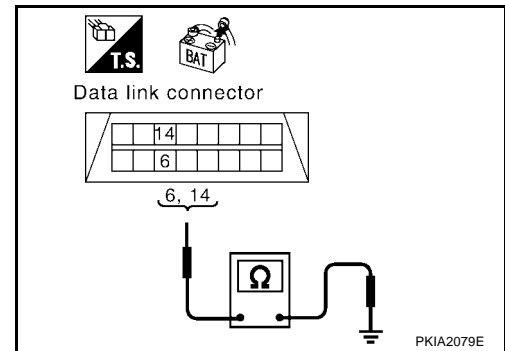
6 (L) - Ground : Continuity should not exist.

14 (Y) - Ground : Continuity should not exist.

OK or NG

OK >> Check ECM and IPDM E/R. Refer to [LAN-106, "Component Inspection"](#).

NG >> Repair the harness.



EKS00A6Y

IPDM E/R Ignition Relay Circuit Check

Check the following. If no problem is found, replace the IPDM E/R.

- IPDM E/R power supply circuit. Refer to [PG-24, "IPDM E/R Power/Ground Circuit Inspection"](#).
- Ignition power supply circuit. Refer to [PG-11, "IGNITION POWER SUPPLY — IGNITION SW. IN ON AND/OR START"](#).

Component Inspection

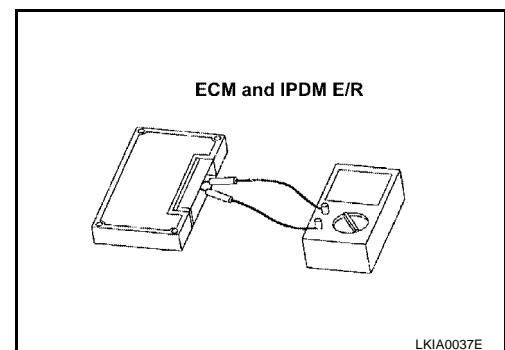
ECM/IPDM E/R INTERNAL CIRCUIT INSPECTION

- Remove ECM and IPDM E/R from vehicle.
- Check resistance between ECM terminals 94 and 86.

94 - 86 : Approx. 108 - 132Ω
- Check resistance between IPDM E/R terminals 48 and 49.

48 - 49 : Approx. 108 - 132Ω

EKS00A6Z



CAN SYSTEM (TYPE 5)

PFP:23710

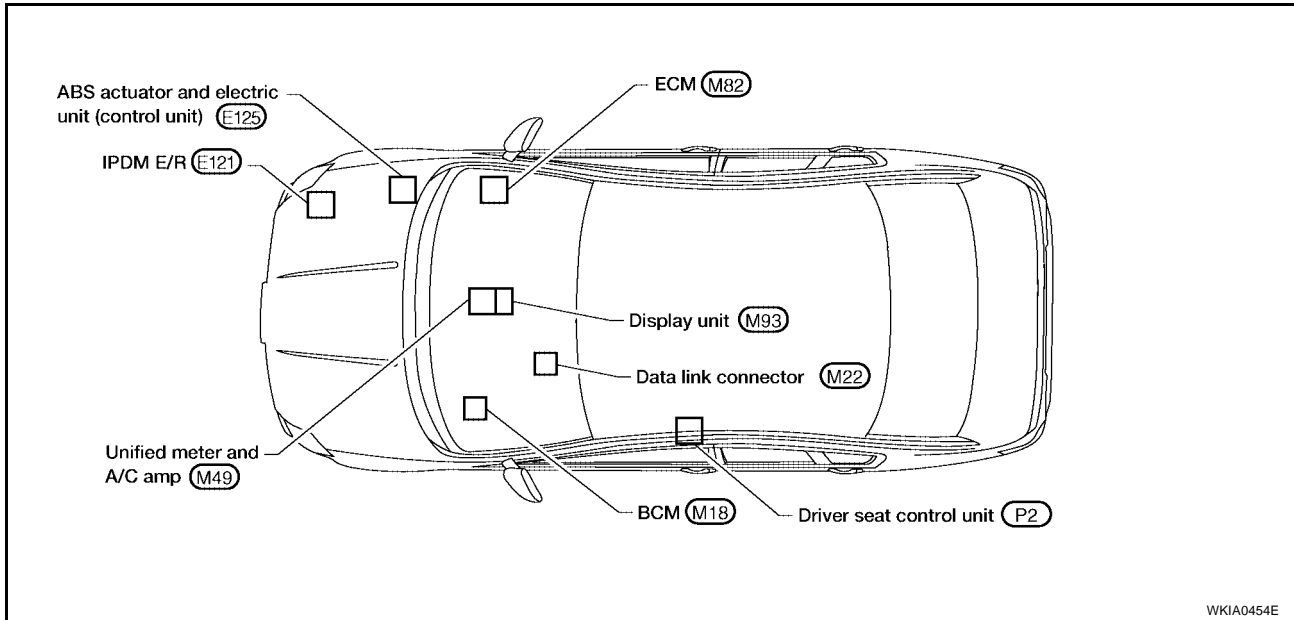
System Description

EKS00A62

CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H line, CAN L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

Component Parts and Harness Connector Location

EKS00A63



A
B
C
D
E
F
G
H
I
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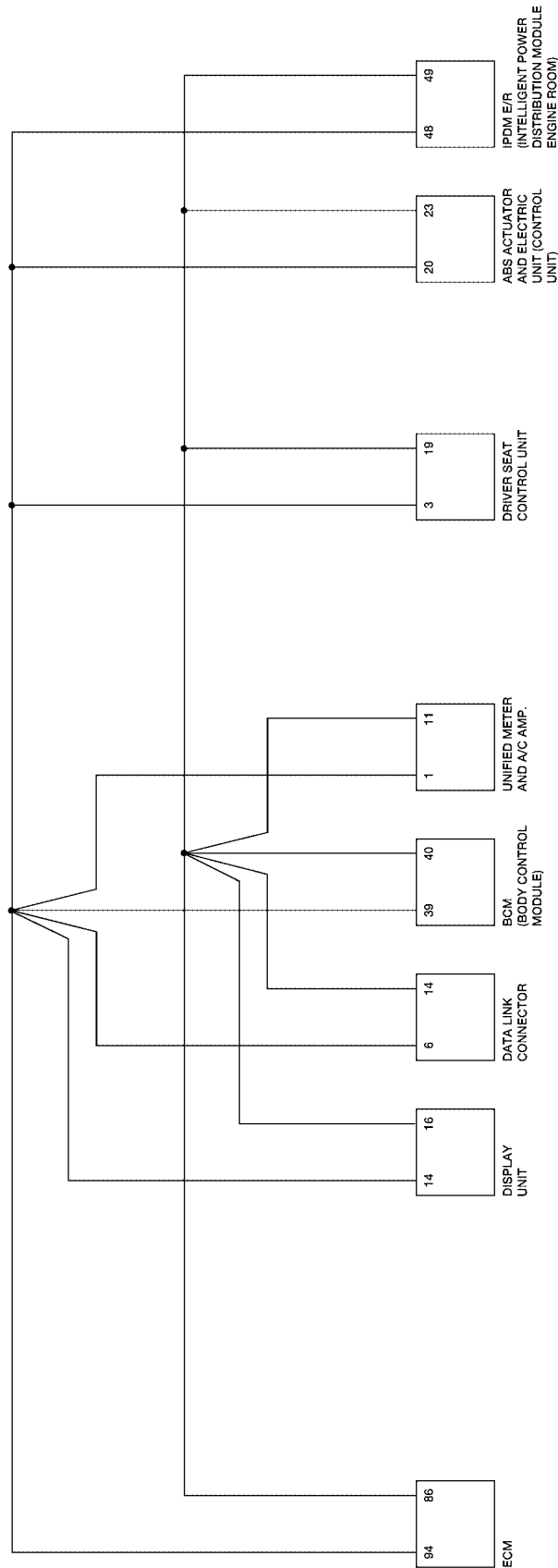
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CAN SYSTEM (TYPE 5)

[CAN]

Schematic

EKS00A64

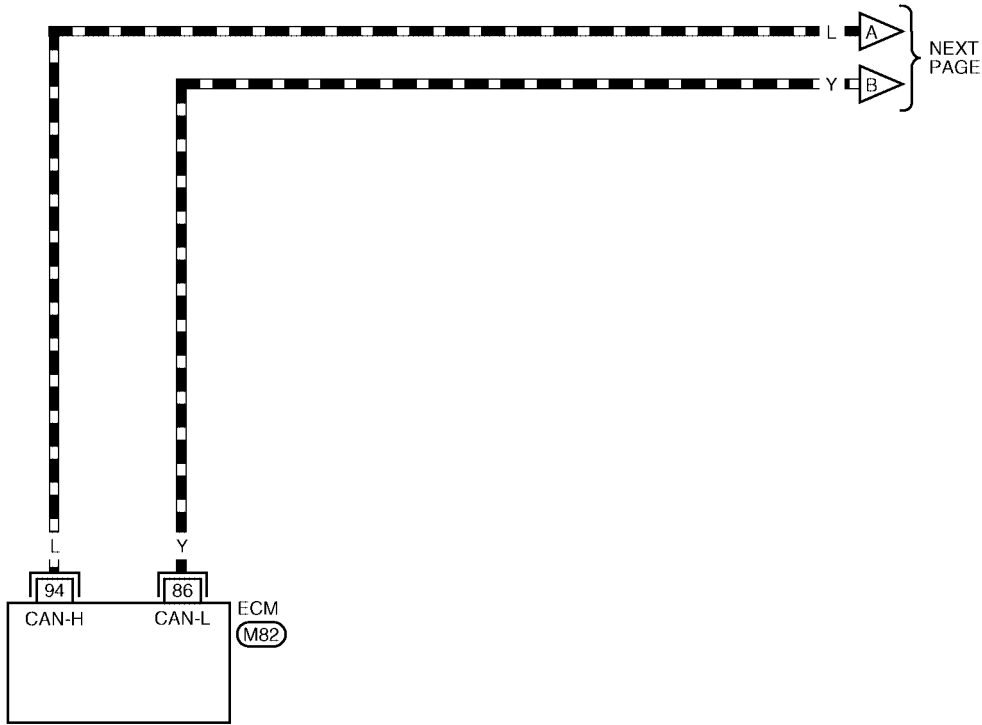


WKWA0449E

Wiring Diagram - CAN -

LAN-CAN-13

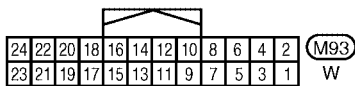
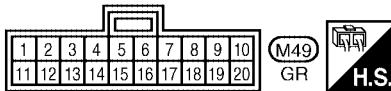
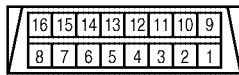
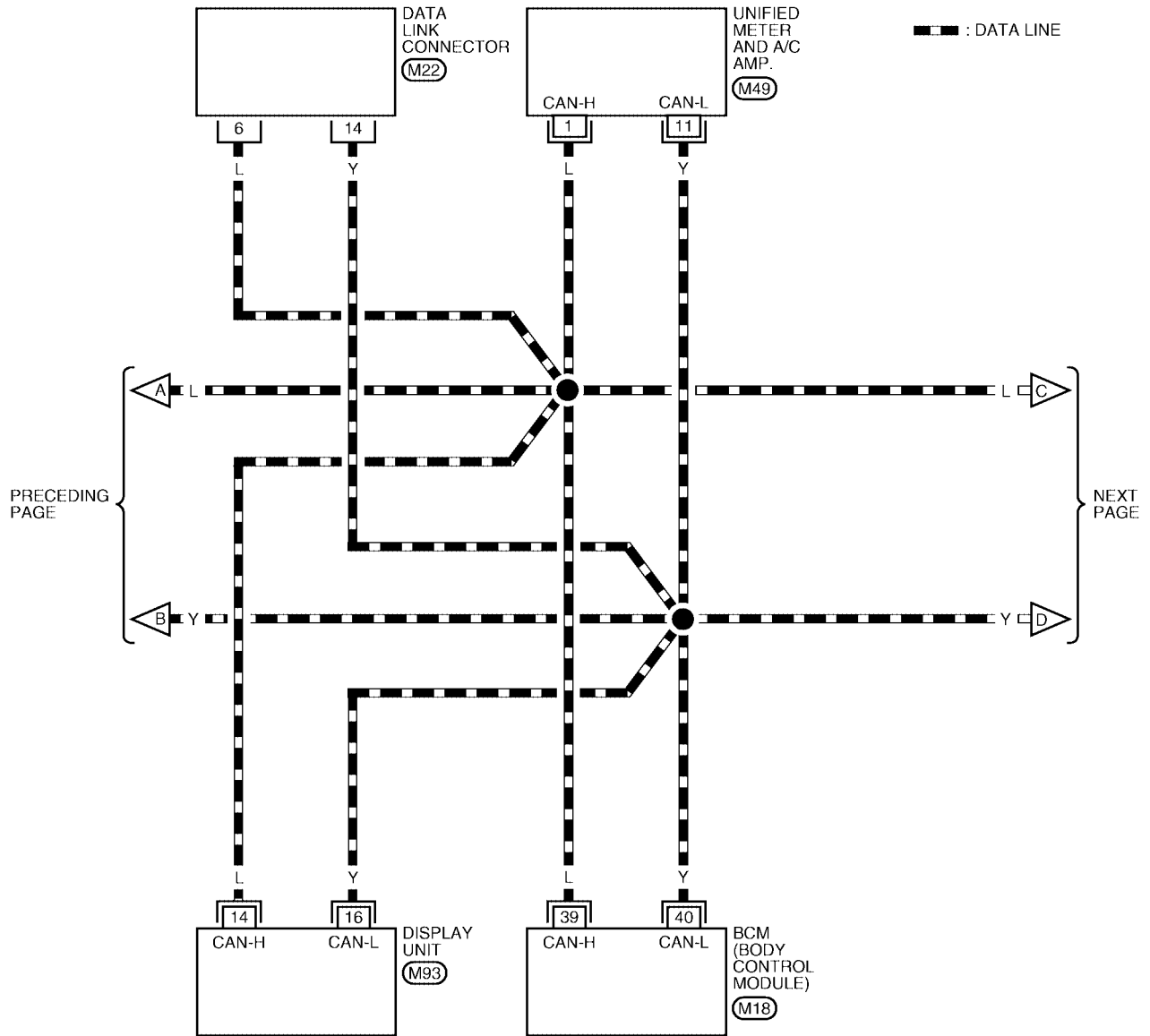
▬ : DATA LINE



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REFER TO THE FOLLOWING.
M82 - ELECTRICAL
UNITS

LAN-CAN-14



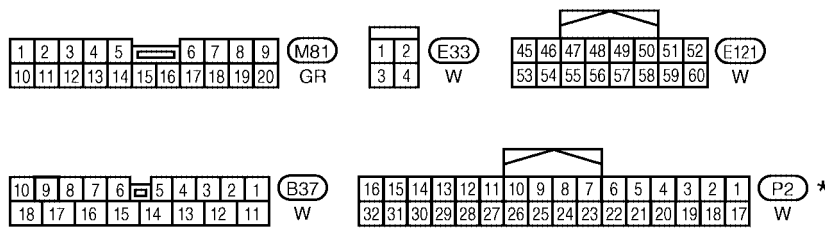
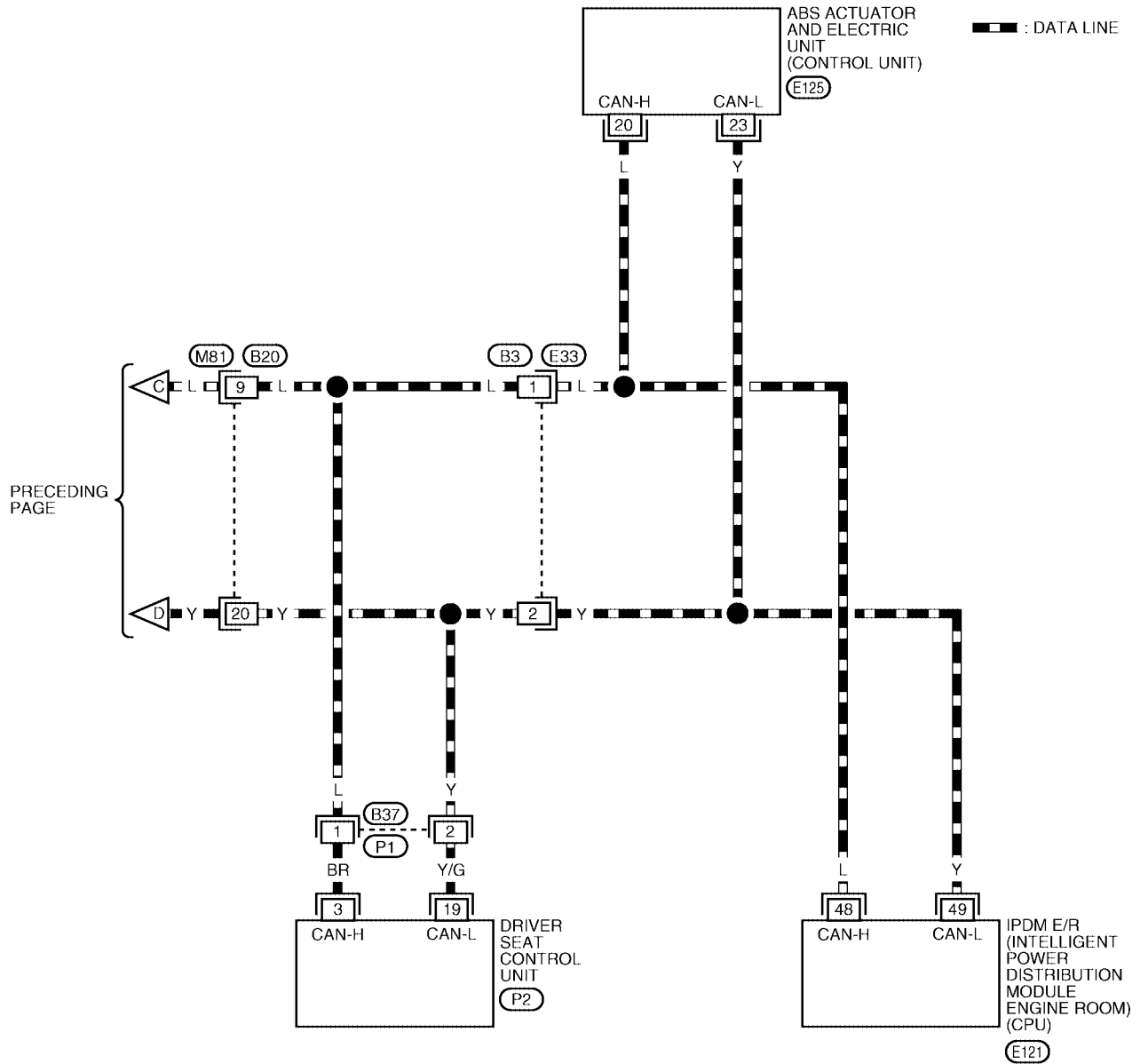
REFER TO THE FOLLOWING.

M18 - ELECTRICAL UNITS

CAN SYSTEM (TYPE 5)

[CAN]

LAN-CAN-15



REFER TO THE FOLLOWING.
 (E125) - ELECTRICAL UNITS

*: THIS CONNECTOR IS NOT SHOWN IN "HARNES LAYOUT" OF PG SECTION.

BKWA0212E

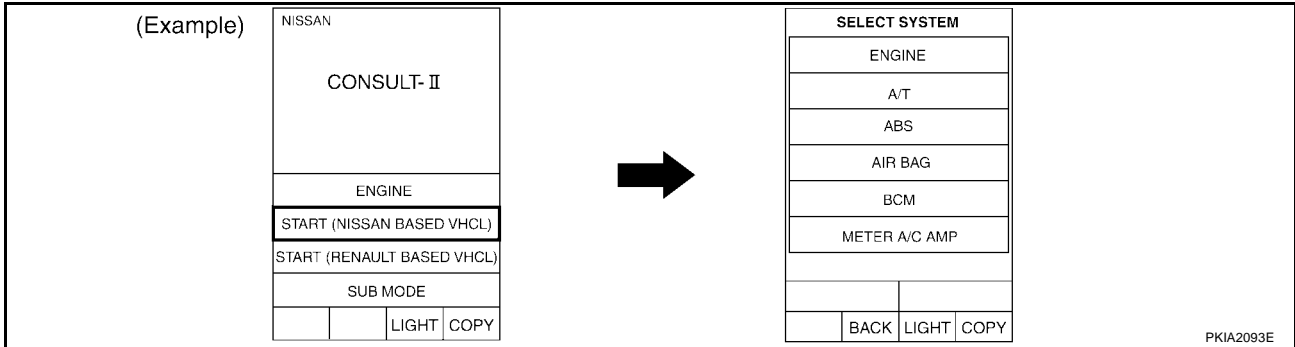
CAN SYSTEM (TYPE 5)

[CAN]

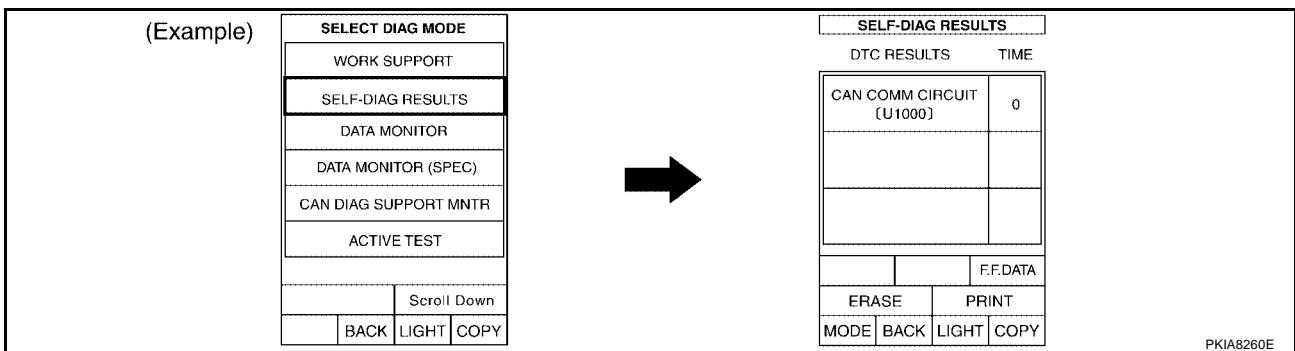
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Work Flow

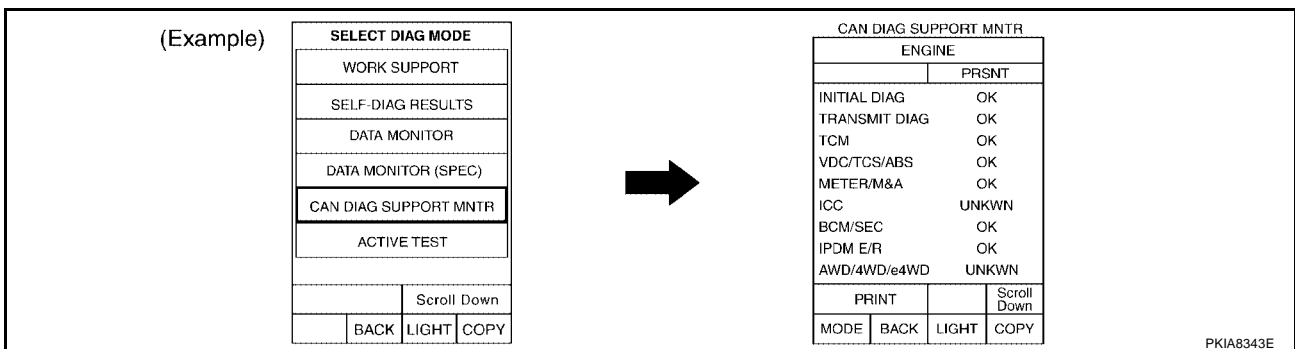
- When there are no indications of "METER A/C AMP", "BCM", "IPDM E/R" or "AUTO DRIVE POS." on "SELECT SYSTEM" display of CONSULT-II, print the "SELECT SYSTEM".



- Print all the data of "SELF-DIAG RESULTS" for "ENGINE", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Print all the data of "CAN DIAG SUPPORT MNTR" for "ENGINE", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Based on the indications of "SELECT SYSTEM" and the results of "CAN DIAG SUPPORT MNTR", put marks onto the items with "No indication", "NG", or "UNKWN" in the check sheet table.

SELECT SYSTEM screen	Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
			Receive diagnosis						
			ECM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R	
ENGINE	-	NG	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA3070E

NOTE:

- If "NG" is displayed on "INITIAL DIAG (Initial diagnosis) CAN COMM" as "CAN DIAG SUPPORT MNTR" for the diagnosed control unit, replace the control unit.

CAN SYSTEM (TYPE 5)

[CAN]

-
- The “CAN DIAG SUPPORT MNTR” items which are not in check sheet table are not related to diagnostic procedure on service manual.
Therefore, it is not necessary to check the status of the “CAN DIAG SUPPORT MNTR” items not in check sheet table.
5. Mark the “NG” or “UNKWN” item of the check sheet table from the result of CAN DIAG SUPPORT MONITOR check sheet.
- NOTE:**
If “NG” is displayed on “CAN COMM” as “CAN DIAG SUPPORT MNTR” for the diagnosed control unit, replace the control unit.
6. According to the Check Sheet Results, start inspection.

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CAN SYSTEM (TYPE 5)

[CAN]

CHECK SHEET

Check sheet table

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

Symptoms:

Attach copy of
SELECT SYSTEM

Attach copy of
SELECT SYSTEM

Attach copy of
display unit
CAN DIAG MONITOR
check sheet

BKIA0075E

CAN SYSTEM (TYPE 5)

[CAN]

Attach copy of ENGINE SELF-DIAG RESULTS	Attach copy of METER A/C AMP SELF-DIAG RESUL	Attach copy of ABS SELF-DIAG RESULTS
Attach copy of BCM SELF-DIAG RESULTS	Attach copy of AUTO DRIVE POS. SELF-DIAG RESULTS	Attach copy of IPDM E/R SELF-DIAG RESULTS
Attach copy of ENGINE CAN DIAG SUPPORT MNTR	Attach copy of METER A/C AMP CAN DIAG SUPPORT MNTR	Attach copy of ABS CAN DIAG SUPPORT MNTR
Attach copy of BCM CAN DIAG SUPPORT MNTR	Attach copy of AUTO DRIVE POS. CAN DIAG SUPPORT MNTR	Attach copy of IPDM E/R CAN DIAG SUPPORT MNTR

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BKIA0083E

CAN SYSTEM (TYPE 5)

[CAN]

CHECK SHEET RESULTS

Case 1

Replace ECM.

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR					
				Receive diagnosis					
				ECM	DISPLAY	METER/ MSA	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	✓	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA3071E

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR					
				Receive diagnosis					
				ECM	DISPLAY	METER/ MSA	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA3072E

Case 2

Replace display unit.

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR					
				Receive diagnosis					
				ECM	DISPLAY	METER/ MSA	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN
Display unit	-	✓	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA3073E

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR					
				Receive diagnosis					
				ECM	DISPLAY	METER/ MSA	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN
Display unit	-	CAN COMM	CAN 1	✓3	-	✓5	✓2	-	✓7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA3074E

CAN SYSTEM (TYPE 5)

[CAN]

Case 3

Replace BCM.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	UNKW	UNKW
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-
ABS	-	NG	UNKW	UNKW	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-

WKIA3075E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	UNKW	UNKW
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	✓	UNKW	UNKW	-	UNKW	-	-	UNKW
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-
ABS	-	NG	UNKW	UNKW	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-

WKIA3076E

Case 4

Replace unified meter and A/C amp.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	UNKW	UNKW
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-
ABS	-	NG	UNKW	UNKW	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-

WKIA3077E

Case 5

Replace driver seat control unit.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	UNKW	UNKW
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW
AUTO DRIVE POS.	No indication	✓	UNKW	-	-	UNKW	UNKW	-	-
ABS	-	NG	UNKW	UNKW	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-

WKIA3078E

CAN SYSTEM (TYPE 5)

[CAN]

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR					
				Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDG/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	UNKW	UNKW
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-
ABS	-	NG	UNKW	UNKW	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-

WKIA3079E

Case 6

Replace ABS actuator and electric unit (control unit).

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR					
				Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDG/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	UNKW	UNKW
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-
ABS	-	✓	UNKW	UNKW	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-

WKIA3080E

Case 7

Replace IPDM E/R.

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR					
				Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDG/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	UNKW	UNKW
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-
ABS	-	NG	UNKW	UNKW	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	✓	-	UNKW	✓	-

WKIA3081E

Case 8

Check harness between data link connector and driver seat control unit. Refer to [LAN-122](#).

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR					
				Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDG/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	UNKW	UNKW
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-
ABS	-	NG	UNKW	UNKW	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-

WKIA3082E

CAN SYSTEM (TYPE 5)

[CAN]

Case 9

Check harness between driver seat control unit and ABS actuator and electric unit (control unit). Refer to [LAN-122](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCU/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	UNKW	UNKW
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-
ABS	-	NG	UNKW	UNKW	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-

WKIA3083E

Case 10

Check ECM circuit. Refer to [LAN-123](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCU/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	UNKW	UNKW
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-
ABS	-	NG	UNKW	UNKW	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-

WKIA3084E

Case 11

Check display unit circuit. Refer to [LAN-124](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCU/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	UNKW	UNKW
Display unit	-	CAN COMM	✓1	✓3	-	✓1,5	✓2	-	✓7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-
ABS	-	NG	UNKW	UNKW	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-

WKIA3085E

Case 12

Check data link connector circuit. Refer to [LAN-124](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCU/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	UNKW	UNKW
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-
ABS	-	NG	UNKW	UNKW	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-

WKIA3086E

Case 13

Check BCM circuit. Refer to [LAN-125](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VIX/IGSI/ ABS		
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	UNKW	UNKW	
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	✓ CAN 2	-	CAN 7	
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW	
BCM	✓ No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW	
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-	
ABS	-	NG	UNKW	UNKW	-	-	-	-	-	
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-	

WKIA3087E

Case 14

Check unified meter and A/C amp. circuit. Refer to [LAN-125](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VIX/IGSI/ ABS		
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	UNKW	UNKW	
Display unit	-	CAN COMM	CAN 1	CAN 3	-	✓ CAN 5	CAN 2	-	CAN 7	
METER A/C AMP	✓ No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW	
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW	
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-	
ABS	-	NG	UNKW	UNKW	-	-	-	-	-	
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-	

WKIA3088E

Case 15

Check driver seat control unit circuit. Refer to [LAN-126](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VIX/IGSI/ ABS		
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	UNKW	UNKW	
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7	
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW	
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW	
AUTO DRIVE POS.	✓ No indication	NG	UNKW	-	-	UNKW	UNKW	-	-	
ABS	-	NG	UNKW	UNKW	-	-	-	-	-	
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-	

WKIA3089E

Case 16

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-126](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VIX/IGSI/ ABS		
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	UNKW	UNKW	
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7	
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW	
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW	
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-	
ABS	-	NG	✓ UNKW	✓ UNKW	-	-	-	-	-	
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-	

WKIA3090E

CAN SYSTEM (TYPE 5)

[CAN]

Case 17

Check IPDM E/R circuit. Refer to [LAN-127](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS		
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	UNKW	UNKW	
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	UNKW	
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW	
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW	
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-	
ABS	-	NG	UNKW	UNKW	-	-	-	-	-	
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-	

WKIA3091E

Case 18

Check CAN communication circuit. Refer to [LAN-127](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS		
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	UNKW	UNKW	
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	UNKW	
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW	
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW	
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-	
ABS	-	NG	UNKW	UNKW	-	-	-	-	-	
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-	

WKIA3092E

Case 19

Check IPDM E/R.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS		
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	UNKW	UNKW	
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7	
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW	
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW	
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-	
ABS	-	NG	UNKW	UNKW	-	-	-	-	-	
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-	

WKIA3093E

Case 20

Check IPDM E/R Ignition relay circuit. Refer to [LAN-128](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS		
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	UNKW	UNKW	
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7	
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW	
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW	
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-	
ABS	-	NG	UNKW	UNKW	-	-	-	-	-	
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-	

WKIA3094E

Circuit Check Between Driver Seat Control Unit and Data Link Connector**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

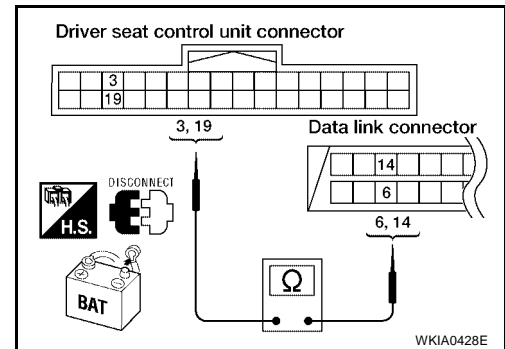
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and data link connector M22 terminals 6 (L), 14 (Y).

- 3 (BR) - 6 (L) : Continuity should exist.**
19 (Y/G) - 14 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-112](#).
 NG >> Repair harness.

**Circuit Check Between Driver Seat Control Unit and ABS Actuator and Electric Unit (Control Unit)****1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2, ABS actuator and electric unit (control unit) connector E125 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

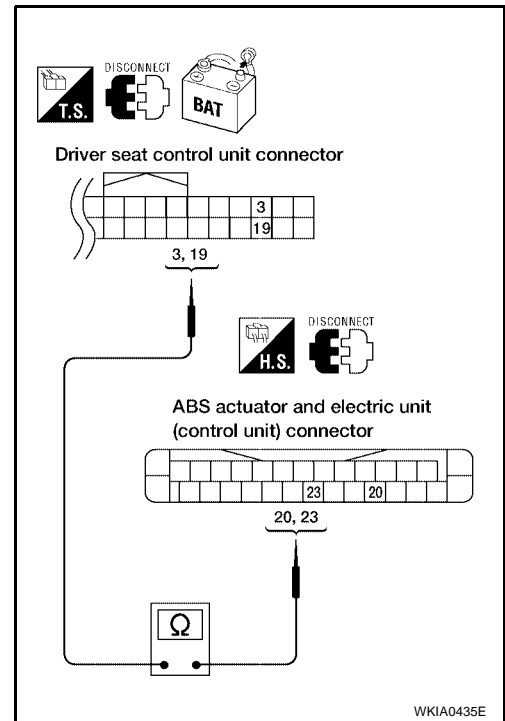
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and ABS actuator and electric unit (control unit) connector E125 terminals 20 (L), 23 (Y).

3 (BR) - 20 (L) : Continuity should exist.
19 (Y/G) - 23 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-112](#).
 NG >> Repair harness.



ECM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

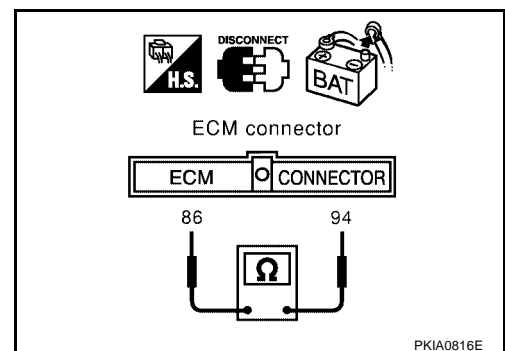
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between ECM connector M82 terminal 94 (L) and terminal 86 (Y).

94 (L) - 86 (Y) : Approx. 108 - 132Ω

OK or NG

- OK >> Replace ECM.
 NG >> Repair harness between ECM connector M82 and data link connector M22.



Display Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect display unit connector M93.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

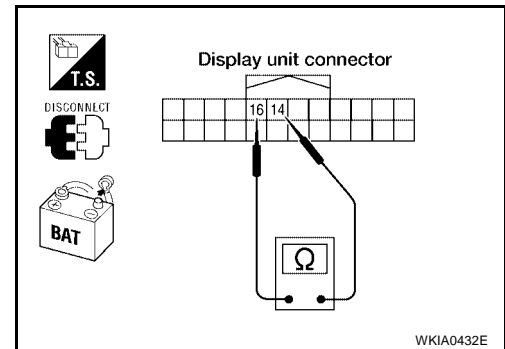
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between display unit connector M93 terminal 25 (L) and terminal 26 (Y).

14 (L) - 16 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace display unit.
 NG >> Repair harness between display unit connector M93 and data link connector M22.



Data Link Connector Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Check data link connector M22 terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

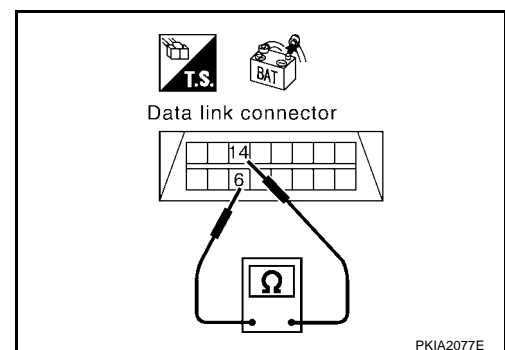
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector M22 terminal 6 (L) and terminal 14 (Y).

6 (L) - 14 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-112](#).
 NG >> Repair harness between data link connector M22 and BCM connector M18.



BCM Circuit Check**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect BCM connector M18.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

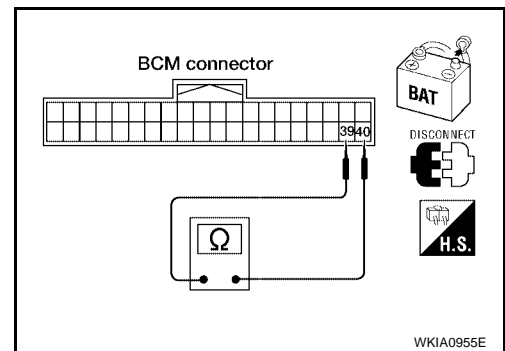
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between BCM connector M18 terminal 39 (L) and terminal 40 (Y).

39 (L) - 40 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace BCM.
 NG >> Repair harness between BCM connector M18 and data link connector M22.

**Unified Meter and A/C Amp. Circuit Check****1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect unified meter and A/C amp. connector M49.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

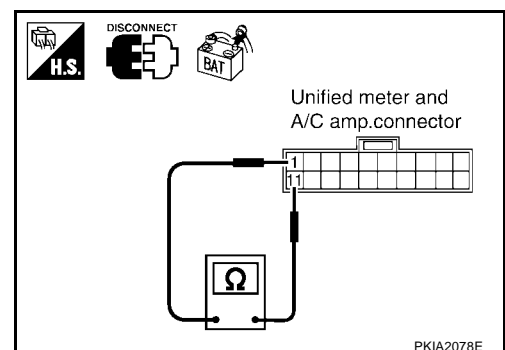
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between unified meter and A/C amp. connector M49 terminal 1 (L) and terminal 11 (Y).

1 (L) - 11 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace unified meter and A/C amp.
 NG >> Repair harness between unified meter and A/C amp. connector M49 and data link connector M22.



Driver Seat Control Unit Circuit Check**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

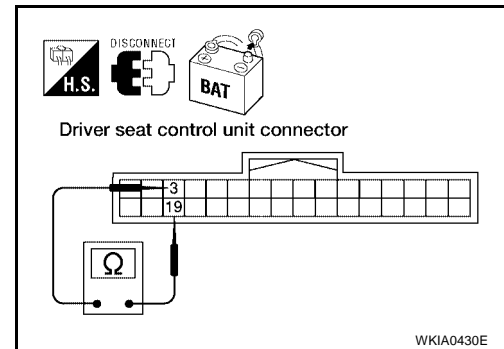
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between driver seat control unit connector P2 terminal 3 (BR) and terminal 19 (Y/G).

3 (BR) - 19 (Y/G) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace driver seat control unit.
 NG >> Repair harness between driver seat control unit connector P2 and data link connector M22.

**ABS Actuator and Electric Unit (Control Unit) Circuit Check****1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ABS actuator and electric unit (control unit) connector E125.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

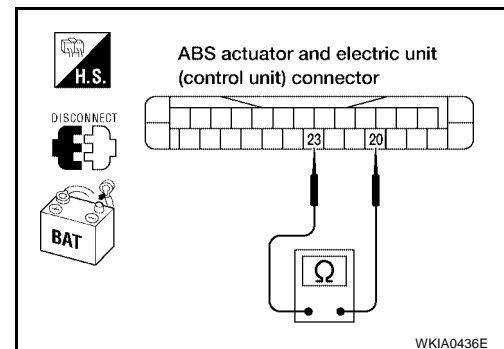
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between ABS actuator and electric unit (control unit) connector E125 terminal 20 (L) and terminal 23 (Y).

20 (L) - 23 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace ABS actuator and electric unit (control unit).
 NG >> Repair harness between ABS actuator and electric unit (control unit) connector E125 and IPDM E/R connector E121.



IPDM E/R Circuit Check**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect IPDM E/R connector E121.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

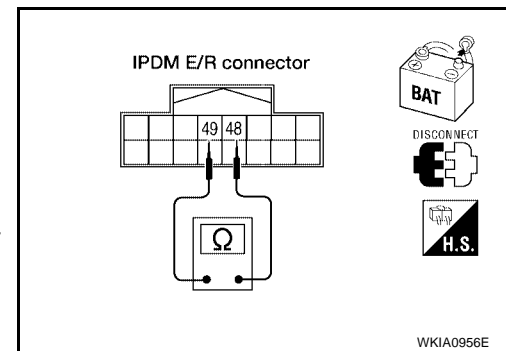
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between IPDM E/R connector E121 terminal 48 (L) and terminal 49 (Y).

48 (L) - 49 (Y) : Approx. 108 - 132Ω

OK or NG

- OK >> Replace IPDM E/R.
 NG >> Repair harness between IPDM E/R connector E121 and ABS actuator and electric unit (control unit) connector E125.

**CAN Communication Circuit Check****1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect the following module and control unit connectors and check terminals for deformation, disconnection, looseness or damage.
 - ECM
 - Display unit
 - BCM (Body control module)
 - Unified meter and A/C amp.
 - Driver seat control unit
 - ABS actuator and electric unit (control unit)
 - IPDM E/R (Intelligent power distribution module engine room)

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

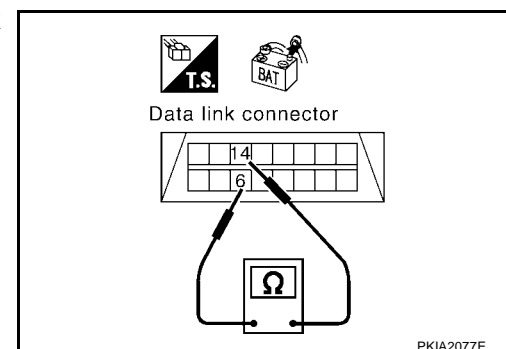
2. CHECK HARNESS FOR SHORTED CIRCUITS

With all module and control unit connectors disconnected, check continuity between data link connector M22 terminals 6 (L) and 14 (Y).

6 (L) - 14 (Y) : Continuity should not exist.

OK or NG

- OK >> GO TO 3.
 NG >> Repair the harness.



3. CHECK HARNESS FOR SHORT TO GROUND

Check continuity between data link connector M22 terminals 6 (L), 14 (Y) and ground.

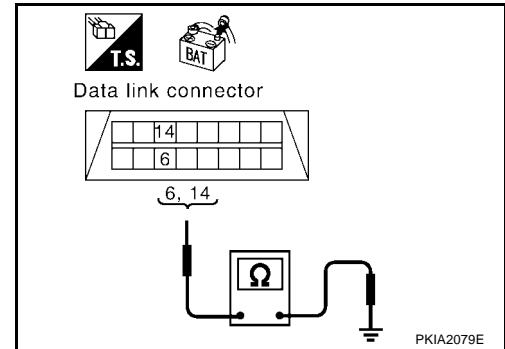
6 (L) - Ground : Continuity should not exist.

14 (Y) - Ground : Continuity should not exist.

OK or NG

OK >> Check ECM and IPDM E/R. Refer to [LAN-128, "Component Inspection"](#).

NG >> Repair the harness.



EKS00A6I

IPDM E/R Ignition Relay Circuit Check

Check the following. If no problem is found, replace the IPDM E/R.

- IPDM E/R power supply circuit. Refer to [PG-24, "IPDM E/R Power/Ground Circuit Inspection"](#).
- Ignition power supply circuit. Refer to [PG-11, "IGNITION POWER SUPPLY — IGNITION SW. IN ON AND/OR START"](#).

Component Inspection

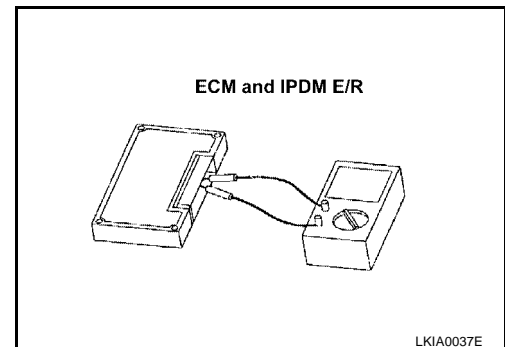
ECM/IPDM E/R INTERNAL CIRCUIT INSPECTION

- Remove ECM and IPDM E/R from vehicle.
- Check resistance between ECM terminals 94 and 86.

94 - 86 : Approx. 108 - 132Ω
- Check resistance between IPDM E/R terminals 48 and 49.

48 - 49 : Approx. 108 - 132Ω

EKS00A6J

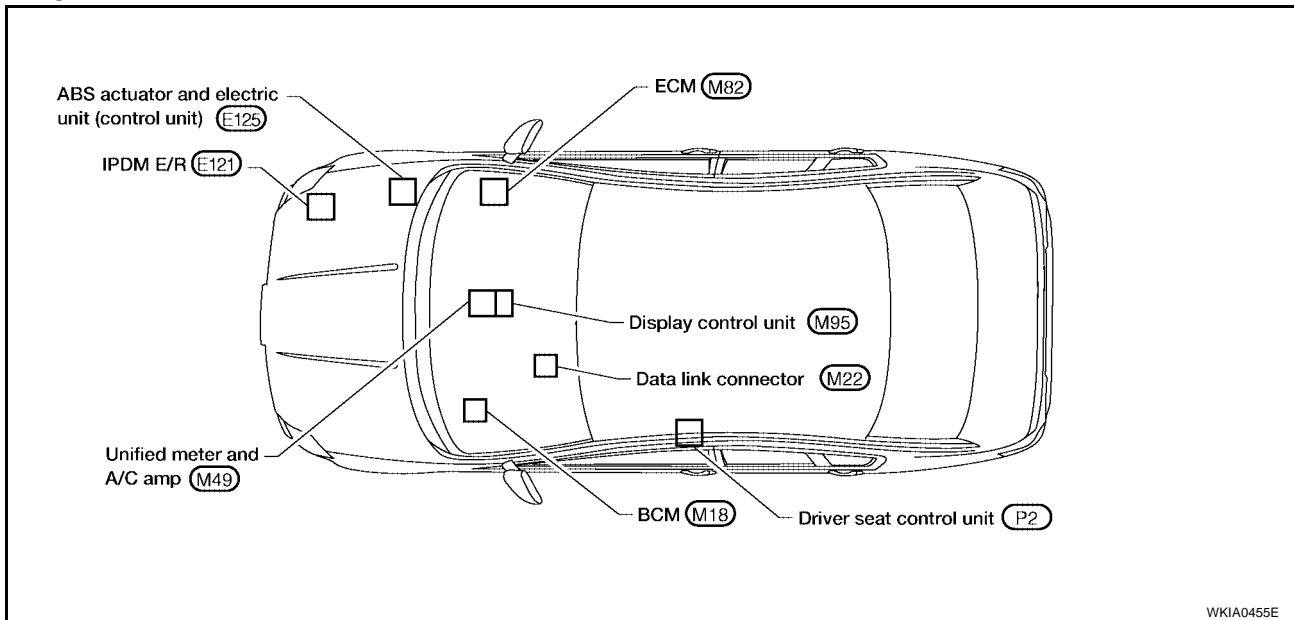


CAN SYSTEM (TYPE 6)

System Description

CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H line, CAN L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

Component Parts and Harness Connector Location



A

B

C

D

E

F

G

H

I

J

LAN

L

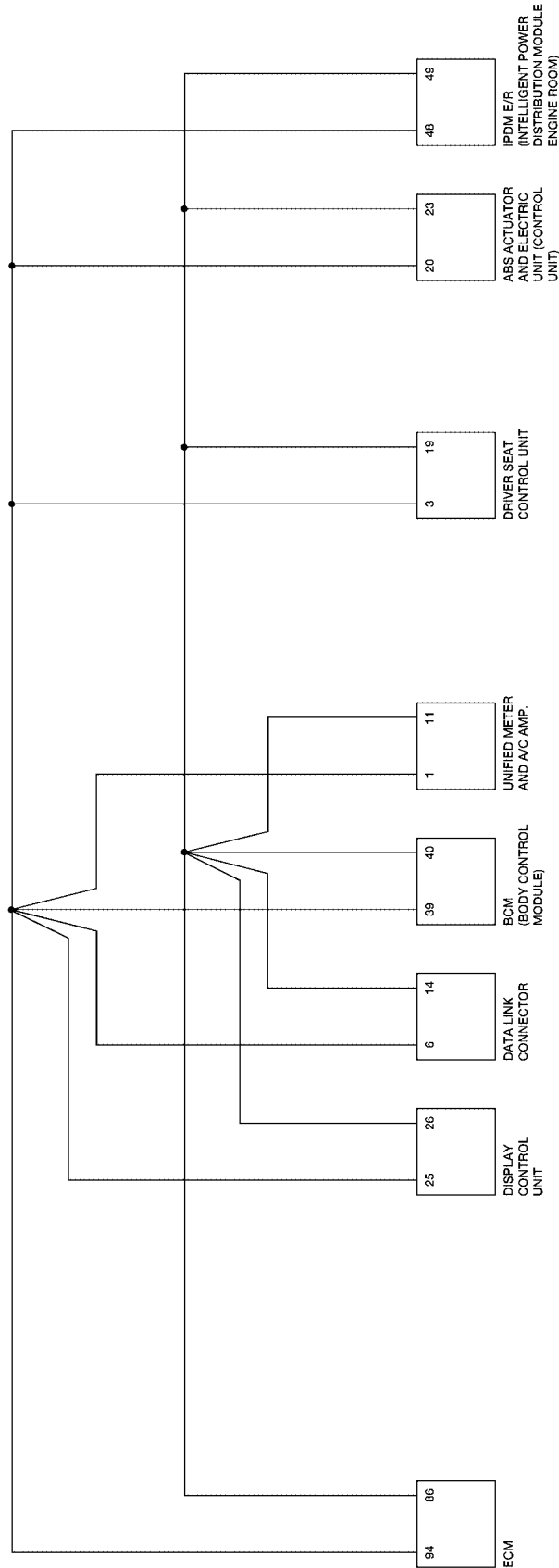
M

CAN SYSTEM (TYPE 6)

[CAN]

Schematic

EKS00A5M

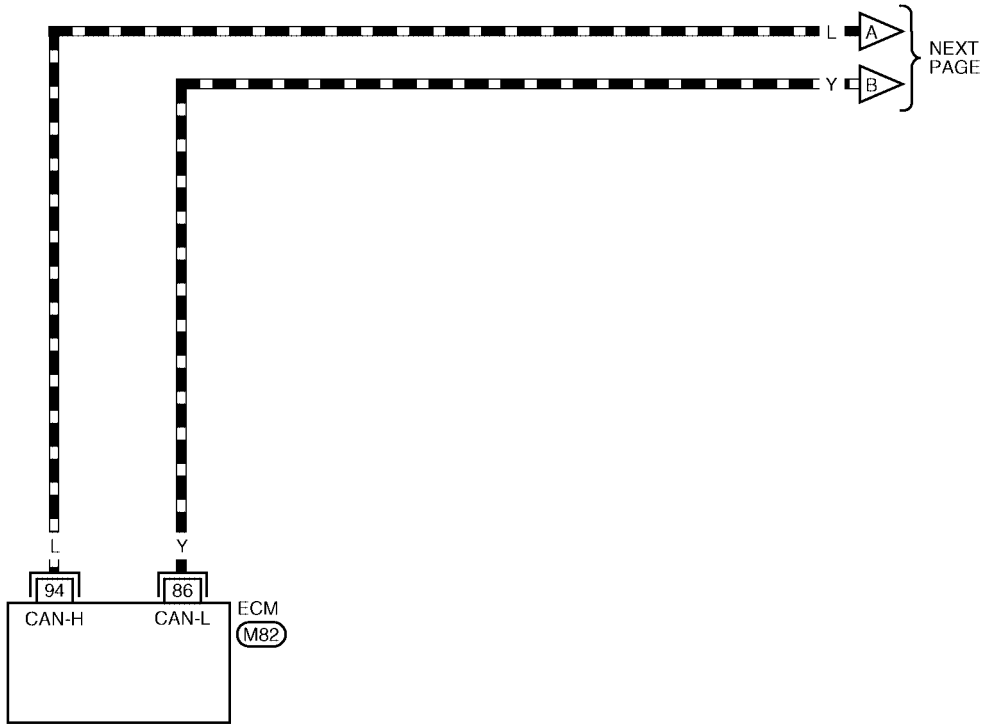


WKWA0445E

Wiring Diagram - CAN -

LAN-CAN-16

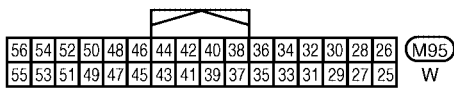
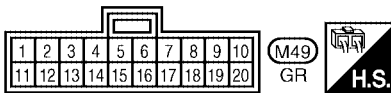
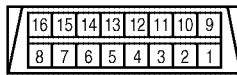
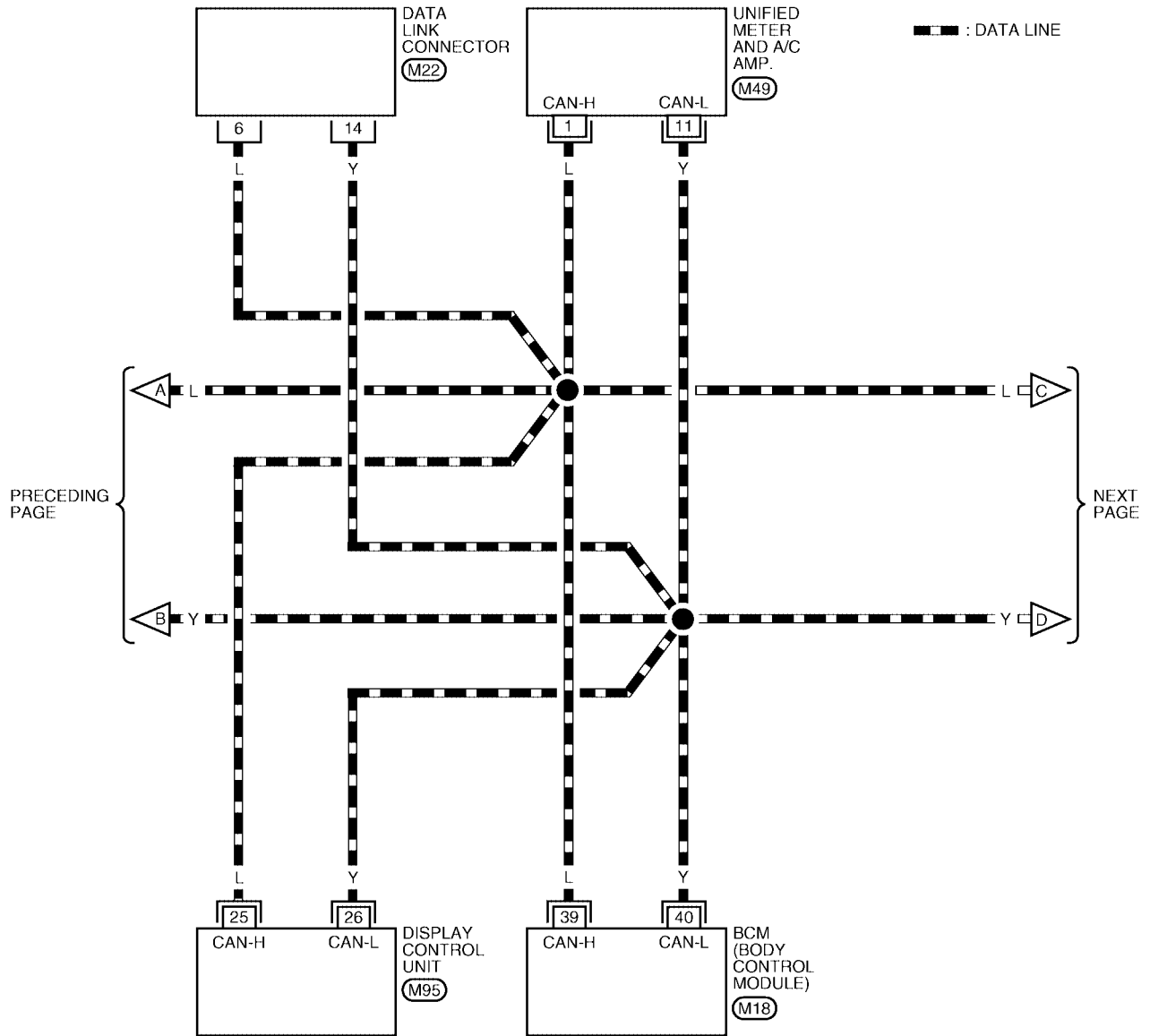
▬ : DATA LINE



A
B
C
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LAN
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M

REFER TO THE FOLLOWING.
M82 - ELECTRICAL
UNITS

LAN-CAN-17

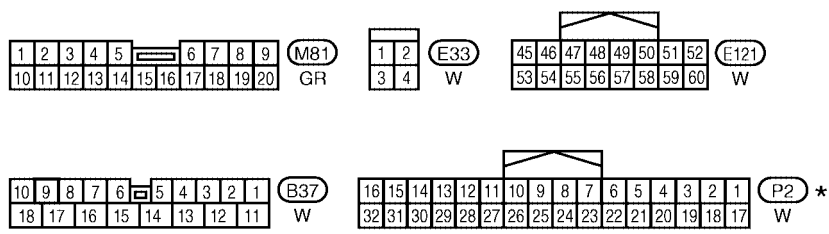
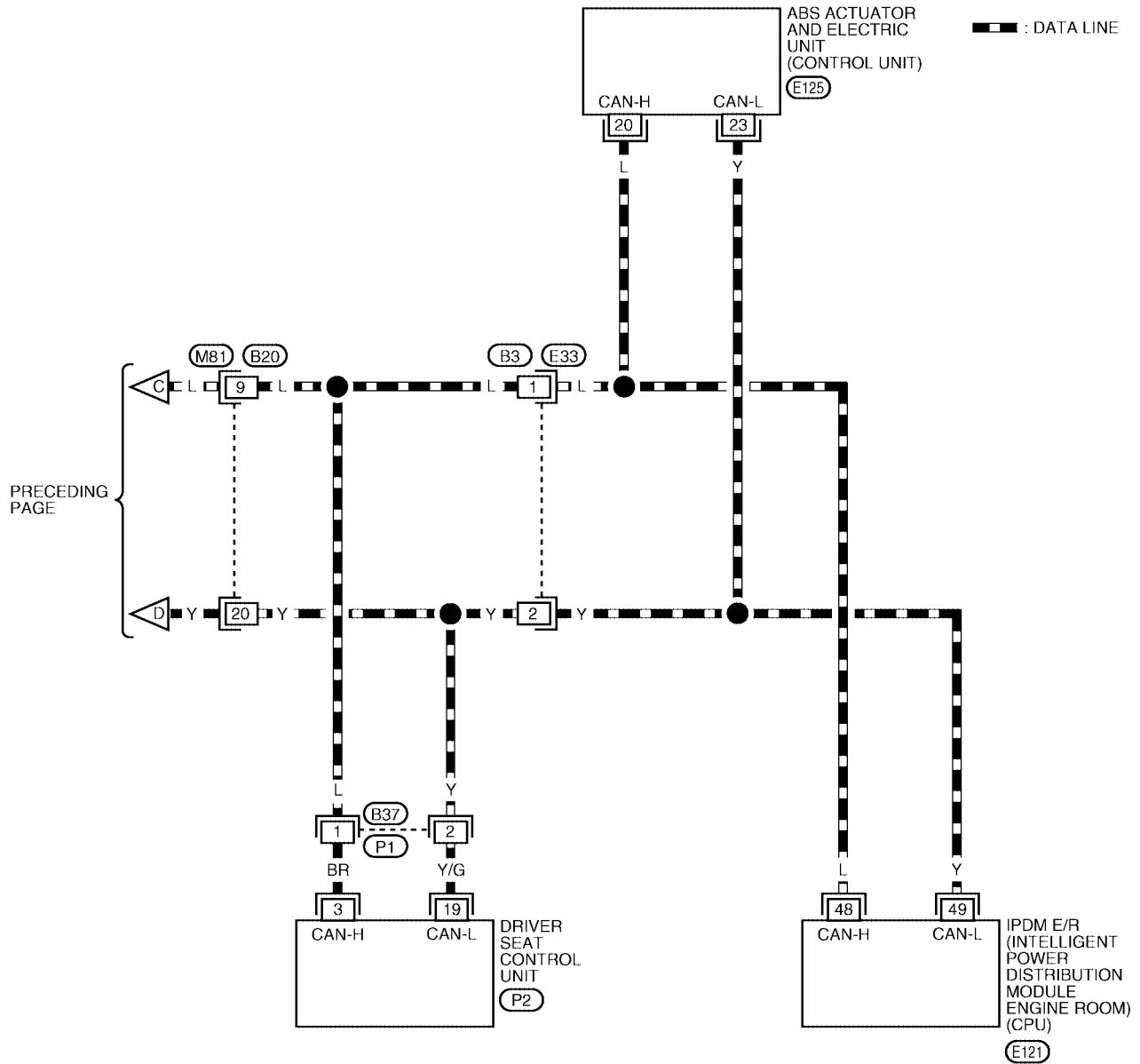


REFER TO THE FOLLOWING.

(M18) - ELECTRICAL UNITS

BKWA0214E

LAN-CAN-18



REFER TO THE FOLLOWING.
 (E125) - ELECTRICAL UNITS

* : THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT" OF PG SECTION.

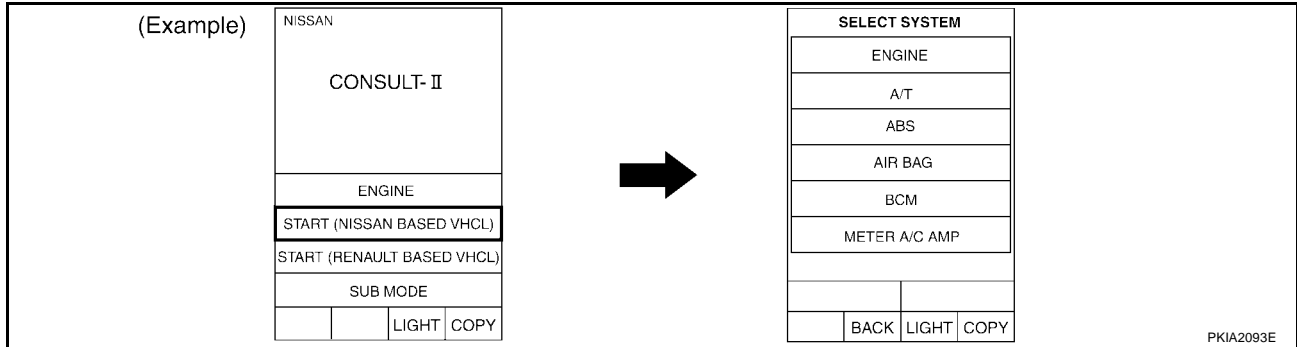
CAN SYSTEM (TYPE 6)

[CAN]

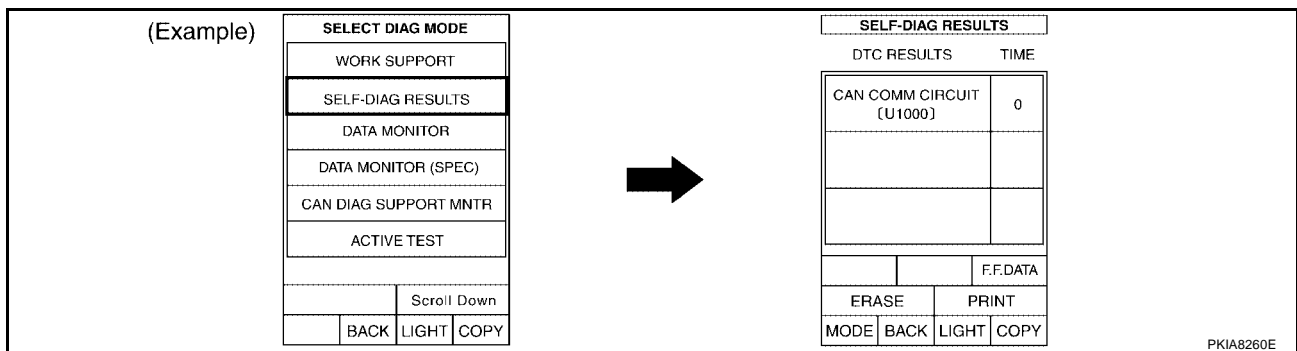
EKS00A50

Work Flow

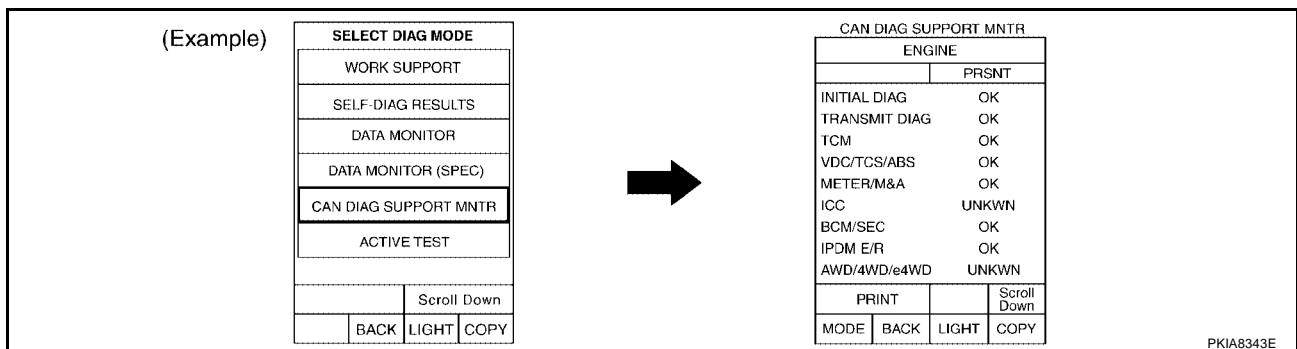
- When there are no indications of "METER A/C AMP", "BCM", "IPDM E/R" or "AUTO DRIVE POS." on "SELECT SYSTEM" display of CONSULT-II, print the "SELECT SYSTEM".



- Print all the data of "SELF-DIAG RESULTS" for "ENGINE", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Print all the data of "CAN DIAG SUPPORT MNTR" for "ENGINE", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Based on the indications of "SELECT SYSTEM" and the results of "CAN DIAG SUPPORT MNTR", put marks onto the items with "No indication", "NG", or "UNKWN" in the check sheet table.

SELECT SYSTEM screen	Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
			Receive diagnosis						
			ECM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R	
ENGINE	-	NG	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA3095E

NOTE:

- If "NG" is displayed on "INITIAL DIAG (Initial diagnosis)" as "CAN DIAG SUPPORT MNTR" for the diagnosed control unit, replace the control unit.

CAN SYSTEM (TYPE 6)

[CAN]

-
- The “CAN DIAG SUPPORT MNTR” items which are not in check sheet table are not related to diagnostic procedure on service manual.
Therefore, it is not necessary to check the status of the “CAN DIAG SUPPORT MNTR” items not in check sheet table.
5. Check CAN communication line of the navigation system.
 6. Mark the “NG” or “UNKWN” item of the check sheet table from the result of CAN DIAG SUPPORT MONITOR check sheet.
NOTE:
If “NG” is displayed on “CAN COMM” as “CAN DIAG SUPPORT MNTR” for the diagnosed control unit, replace the control unit.
 7. According to the Check Sheet Results, start inspection.

A

B

C

D

E

F

G

H

I

J

LAN

L

M

CAN SYSTEM (TYPE 6)

[CAN]

CHECK SHEET

Check sheet table

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

Symptoms:

Attach copy of
SELECT SYSTEM

Attach copy of
SELECT SYSTEM

Attach copy of
display unit
CAN DIAG MONITOR
check sheet

BKIA0076E

CAN SYSTEM (TYPE 6)

[CAN]

Attach copy of ENGINE SELF-DIAG RESULTS	Attach copy of METER A/C AMP SELF-DIAG RESUL	Attach copy of ABS SELF-DIAG RESULTS
Attach copy of BCM SELF-DIAG RESULTS	Attach copy of AUTO DRIVE POS. SELF-DIAG RESULTS	Attach copy of IPDM E/R SELF-DIAG RESULTS
Attach copy of ENGINE CAN DIAG SUPPORT MNTR	Attach copy of METER A/C AMP CAN DIAG SUPPORT MNTR	Attach copy of ABS CAN DIAG SUPPORT MNTR
Attach copy of BCM CAN DIAG SUPPORT MNTR	Attach copy of AUTO DRIVE POS. CAN DIAG SUPPORT MNTR	Attach copy of IPDM E/R CAN DIAG SUPPORT MNTR

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M

LAN

BKIA0083E

CAN SYSTEM (TYPE 6)

[CAN]

CHECK SHEET RESULTS

Case 1

Replace ECM.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/MSA	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	✓ CAN COMM	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA3096E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/MSA	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA3097E

Case 2

Replace display control unit.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/MSA	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN
Display control unit	-	✓ CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA3098E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/MSA	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA3099E

CAN SYSTEM (TYPE 6)

[CAN]

Case 3

Replace BCM.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDCTCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	UNKW	UNKW
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-
ABS	-	NG	UNKW	UNKW	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-

WKIA3100E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDCTCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	UNKW	UNKW
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	✓	UNKW	UNKW	-	UNKW	-	-	UNKW
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-
ABS	-	NG	UNKW	UNKW	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-

WKIA3101E

Case 4

Replace unified meter and A/C amp.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDCTCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	UNKW	UNKW
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-
ABS	-	NG	UNKW	UNKW	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-

WKIA3102E

Case 5

Replace driver seat control unit.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDCTCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	UNKW	UNKW
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW
AUTO DRIVE POS.	No indication	✓	UNKW	-	-	UNKW	UNKW	-	-
ABS	-	NG	UNKW	UNKW	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-

WKIA3103E

CAN SYSTEM (TYPE 6)

[CAN]

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R	
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	UNKW	UNKW	UNKW
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7	-
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW	-
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-	-
ABS	-	NG	UNKW	UNKW	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-	-

WKIA3104E

Case 6

Replace ABS actuator and electric unit (control unit).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R	
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	UNKW	UNKW	UNKW
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7	-
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW	-
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-	-
ABS	-	✓	UNKW	UNKW	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-	-

WKIA3105E

Case 7

Replace IPDM E/R.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R	
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	UNKW	UNKW	UNKW
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7	-
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW	-
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-	-
ABS	-	NG	UNKW	UNKW	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	✓	-	UNKW	-	-	-

WKIA3106E

Case 8

Check harness between data link connector and driver seat control unit. Refer to [LAN-144](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R	
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	UNKW	UNKW	UNKW
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7	-
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW	-
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-	-
ABS	-	NG	UNKW	UNKW	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-	-

WKIA3107E

CAN SYSTEM (TYPE 6)

[CAN]

Case 9

Check harness between driver seat control unit and ABS actuator and electric unit (control unit). Refer to [LAN-144](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA3108E

Case 10

Check ECM circuit. Refer to [LAN-145](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA3109E

Case 11

Check display control unit circuit. Refer to [LAN-146](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA3110E

Case 12

Check data link connector circuit. Refer to [LAN-146](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-

WKIA3111E

Case 13

Check BCM circuit. Refer to [LAN-147](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	DISPLAY	METER/ MSA	BCM/SEC	VDC/IGSI/ ABS		
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	UNKW	UNKW	
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7	
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW	
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW	
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-	
ABS	-	NG	UNKW	UNKW	-	-	-	-	-	
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-	

WKIA3112E

Case 14

Check unified meter and A/C amp. circuit. Refer to [LAN-147](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	DISPLAY	METER/ MSA	BCM/SEC	VDC/IGSI/ ABS		
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	UNKW	UNKW	
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7	
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW	
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW	
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-	
ABS	-	NG	UNKW	UNKW	-	-	-	-	-	
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-	

WKIA3113E

Case 15

Check driver seat control unit circuit. Refer to [LAN-148](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	DISPLAY	METER/ MSA	BCM/SEC	VDC/IGSI/ ABS		
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	UNKW	UNKW	
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7	
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW	
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW	
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-	
ABS	-	NG	UNKW	UNKW	-	-	-	-	-	
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-	

WKIA3114E

Case 16

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-148](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	DISPLAY	METER/ MSA	BCM/SEC	VDC/IGSI/ ABS		
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	UNKW	UNKW	
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7	
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW	
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW	
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-	
ABS	-	NG	UNKW	UNKW	-	-	-	-	-	
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-	

WKIA3115E

Case 17

Check IPDM E/R circuit. Refer to [LAN-149](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	UNKW	UNKW
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-
ABS	-	NG	UNKW	UNKW	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-

WKIA3116E

Case 18

Check CAN communication circuit. Refer to [LAN-149](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	UNKW	UNKW
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-
ABS	-	NG	UNKW	UNKW	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-

WKIA3117E

Case 19

Check IPDM E/R.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	UNKW	UNKW
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-
ABS	-	NG	UNKW	UNKW	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-

WKIA3118E

Case 20

Check IPDM E/R Ignition relay circuit. Refer to [LAN-150](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR							
		Initial diagnosis	Transmit diagnosis	Receive diagnosis					
				ECM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	-	-	UNKW	UNKW	UNKW	UNKW
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	UNKW	-	-	UNKW
AUTO DRIVE POS.	No indication	NG	UNKW	-	-	UNKW	UNKW	-	-
ABS	-	NG	UNKW	UNKW	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	UNKW	-	-

WKIA3119E

Circuit Check Between Driver Seat Control Unit and Data Link Connector**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

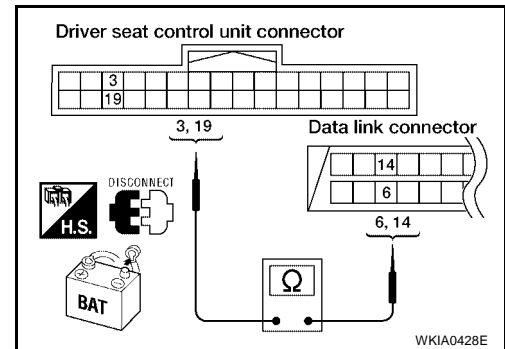
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and data link connector M22 terminals 6 (L), 14 (Y).

- 3 (BR) - 6 (L) : Continuity should exist.**
19 (Y/G) - 14 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-134](#) .
 NG >> Repair harness.

**Circuit Check Between Driver Seat Control Unit and ABS Actuator and Electric Unit (Control Unit)****1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2, ABS actuator and electric unit (control unit) connector E125 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

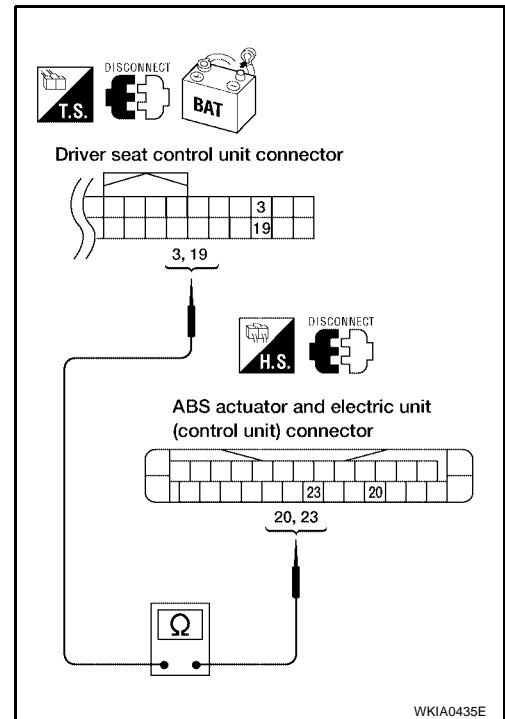
Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and ABS actuator and electric unit (control unit) connector E125 terminals 20 (L), 23 (Y).

3 (BR) - 20 (L) : Continuity should exist.

19 (Y/G) - 23 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-134](#).
- NG >> Repair harness.



ECM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
- NG >> Repair or replace as necessary.

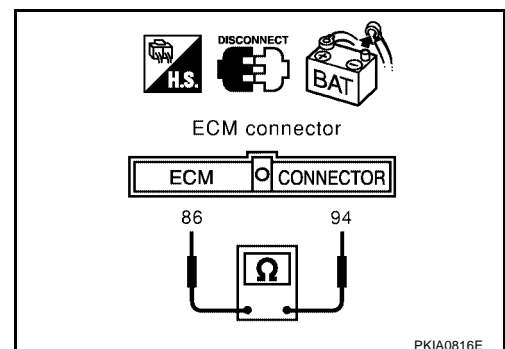
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between ECM connector M82 terminal 94 (L) and terminal 86 (Y).

94 (L) - 86 (Y) : Approx. 108 - 132Ω

OK or NG

- OK >> Replace ECM.
- NG >> Repair harness between ECM connector M82 and data link connector M22.



Display Control Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect display control unit connector M95.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

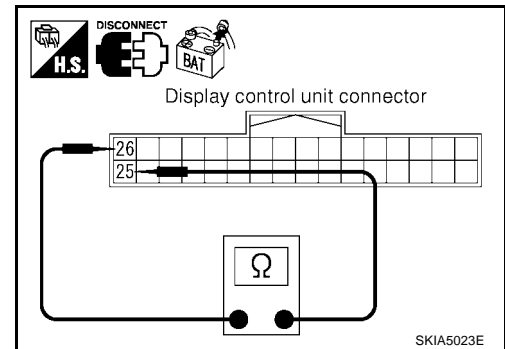
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between display control unit connector M95 terminal 25 (L) and terminal 26 (Y).

25 (L) - 26 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace display control unit.
 NG >> Repair harness between display control unit connector M95 and data link connector M22.



Data Link Connector Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Check data link connector M22 terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

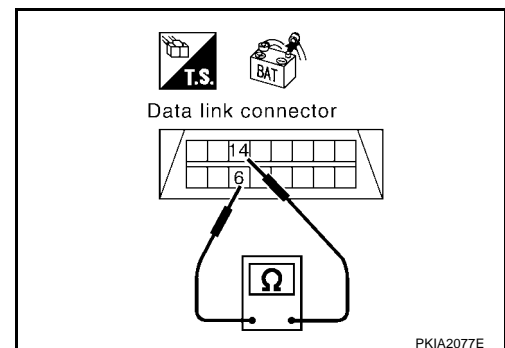
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector M22 terminal 6 (L) and terminal 14 (Y).

6 (L) - 14 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-134](#).
 NG >> Repair harness between data link connector M22 and BCM connector M18.



BCM Circuit Check**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect BCM connector M18.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

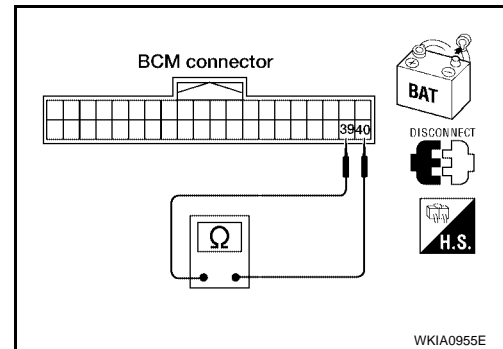
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between BCM connector M18 terminal 39 (L) and terminal 40 (Y).

39 (L) - 40 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace BCM.
 NG >> Repair harness between BCM connector M18 and data link connector M22.

**Unified Meter and A/C Amp. Circuit Check****1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect unified meter and A/C amp. connector M49.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

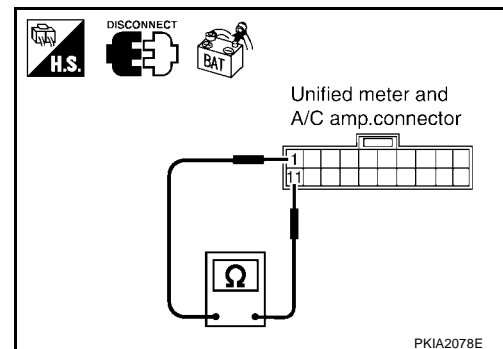
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between unified meter and A/C amp. connector M49 terminal 1 (L) and terminal 11 (Y).

1 (L) - 11 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace unified meter and A/C amp.
 NG >> Repair harness between unified meter and A/C amp. connector M49 and data link connector M22.



Driver Seat Control Unit Circuit Check**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

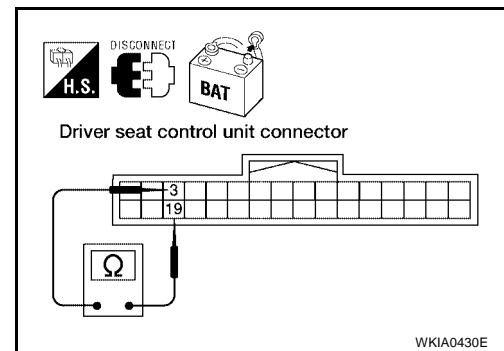
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between driver seat control unit connector P2 terminal 3 (BR) and terminal 19 (Y/G).

3 (BR) - 19 (Y/G) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace driver seat control unit.
 NG >> Repair harness between driver seat control unit connector P2 and data link connector M22.

**ABS Actuator and Electric Unit (Control Unit) Circuit Check****1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ABS actuator and electric unit (control unit) connector E125.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

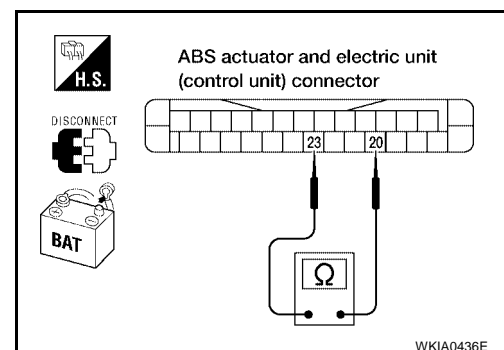
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between ABS actuator and electric unit (control unit) connector E125 terminal 20 (L) and terminal 23 (Y).

20 (L) - 23 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace ABS actuator and electric unit (control unit).
 NG >> Repair harness between ABS actuator and electric unit (control unit) connector E125 and IPDM E/R connector E121.



IPDM E/R Circuit Check**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect IPDM E/R connector E121.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

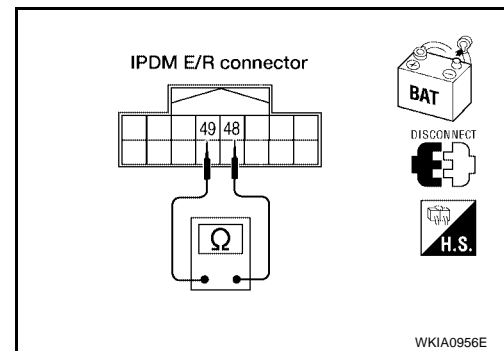
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between IPDM E/R connector E121 terminal 48 (L) and terminal 49 (Y).

48 (L) - 49 (Y) : Approx. 108 - 132Ω

OK or NG

- OK >> Replace IPDM E/R.
 NG >> Repair harness between IPDM E/R connector E121 and ABS actuator and electric unit (control unit) connector E125.

**CAN Communication Circuit Check****1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect the following module and control unit connectors and check terminals for deformation, disconnection, looseness or damage.
 - ECM
 - Display control unit
 - BCM (Body control module)
 - Unified meter and A/C amp.
 - Driver seat control unit
 - ABS actuator and electric unit (control unit)
 - IPDM E/R (Intelligent power distribution module engine room)

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

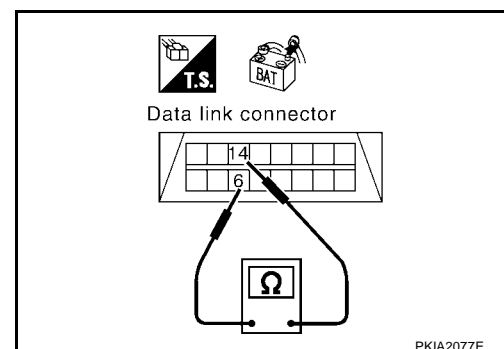
2. CHECK HARNESS FOR SHORTED CIRCUITS

With all module and control unit connectors disconnected, check continuity between data link connector M22 terminals 6 (L) and 14 (Y).

6 (L) - 14 (Y) : Continuity should not exist.

OK or NG

- OK >> GO TO 3.
 NG >> Repair the harness.



3. CHECK HARNESS FOR SHORT TO GROUND

Check continuity between data link connector M22 terminals 6 (L), 14 (Y) and ground.

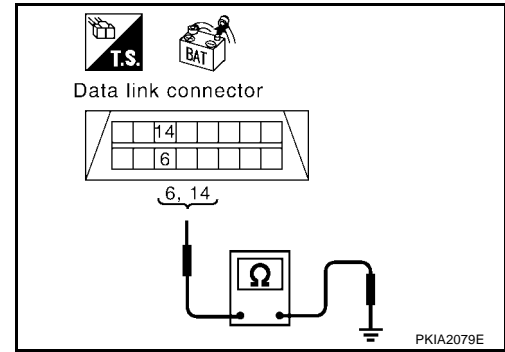
6 (L) - Ground : Continuity should not exist.

14 (Y) - Ground : Continuity should not exist.

OK or NG

OK >> Check ECM and IPDM E/R. Refer to [LAN-129, "Component Parts and Harness Connector Location" LAN-129](#)

NG >> Repair the harness.



EKS00A60

IPDM E/R Ignition Relay Circuit Check

Check the following. If no problem is found, replace the IPDM E/R.

- IPDM E/R power supply circuit. Refer to [PG-24, "IPDM E/R Power/Ground Circuit Inspection"](#).
- Ignition power supply circuit. Refer to [PG-11, "IGNITION POWER SUPPLY — IGNITION SW. IN ON AND/OR START"](#).

Component Inspection

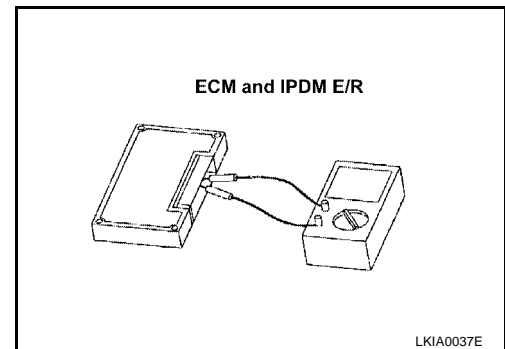
ECM/IPDM E/R INTERNAL CIRCUIT INSPECTION

- Remove ECM and IPDM E/R from vehicle.
- Check resistance between ECM terminals 94 and 86.

94 - 86 : Approx. 108 - 132Ω
- Check resistance between IPDM E/R terminals 48 and 49.

48 - 49 : Approx. 108 - 132Ω

EKS00A61



LKIA0037E

CAN SYSTEM (TYPE 7)

PFP:23710

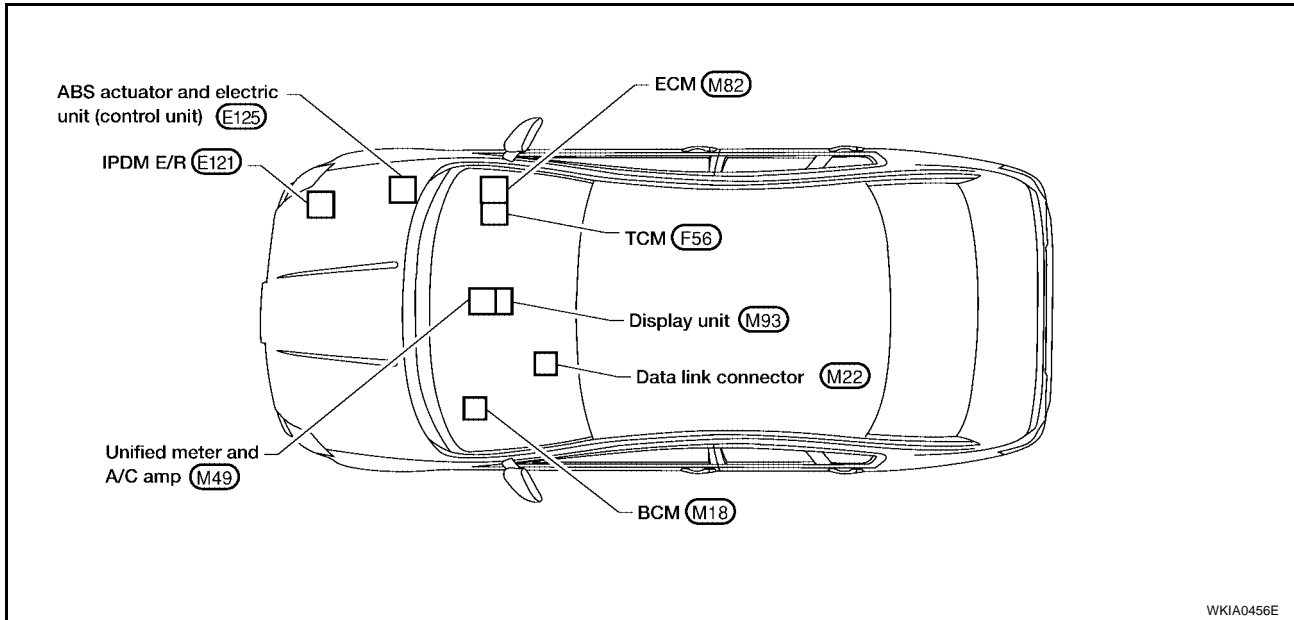
System Description

EKS00A52

CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H line, CAN L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

Component Parts and Harness Connector Location

EKS00A53



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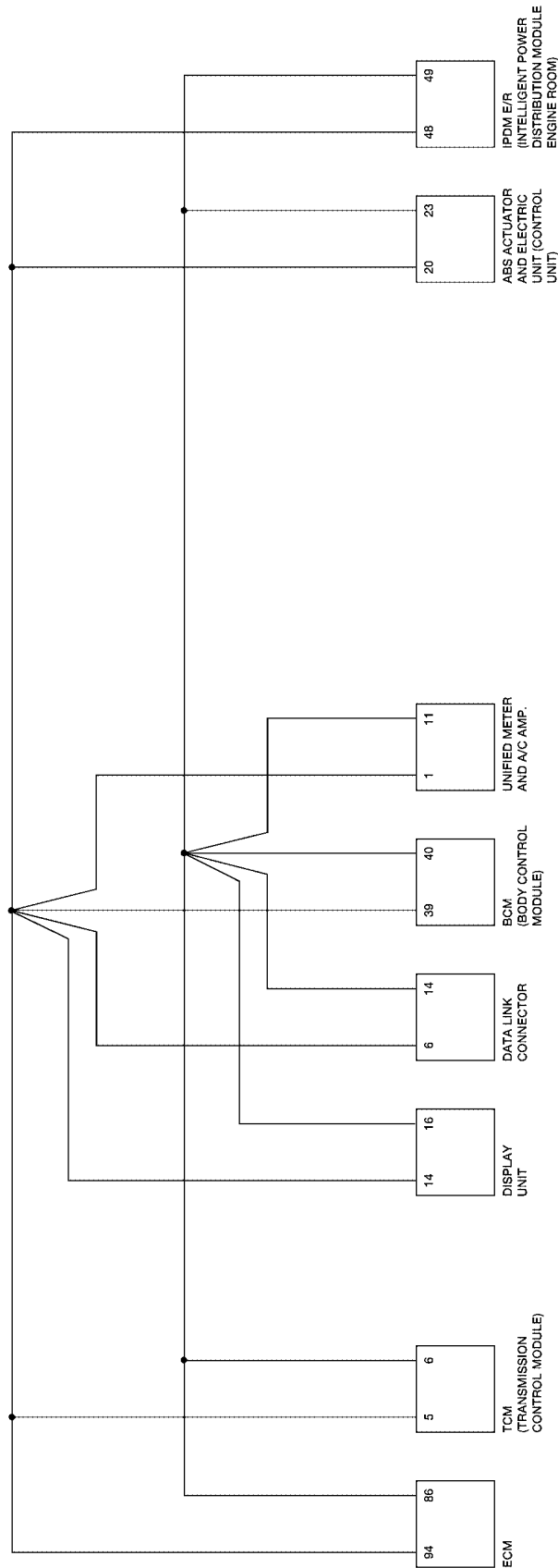
LAN

CAN SYSTEM (TYPE 7)

[CAN]

Schematic

EKS00A54



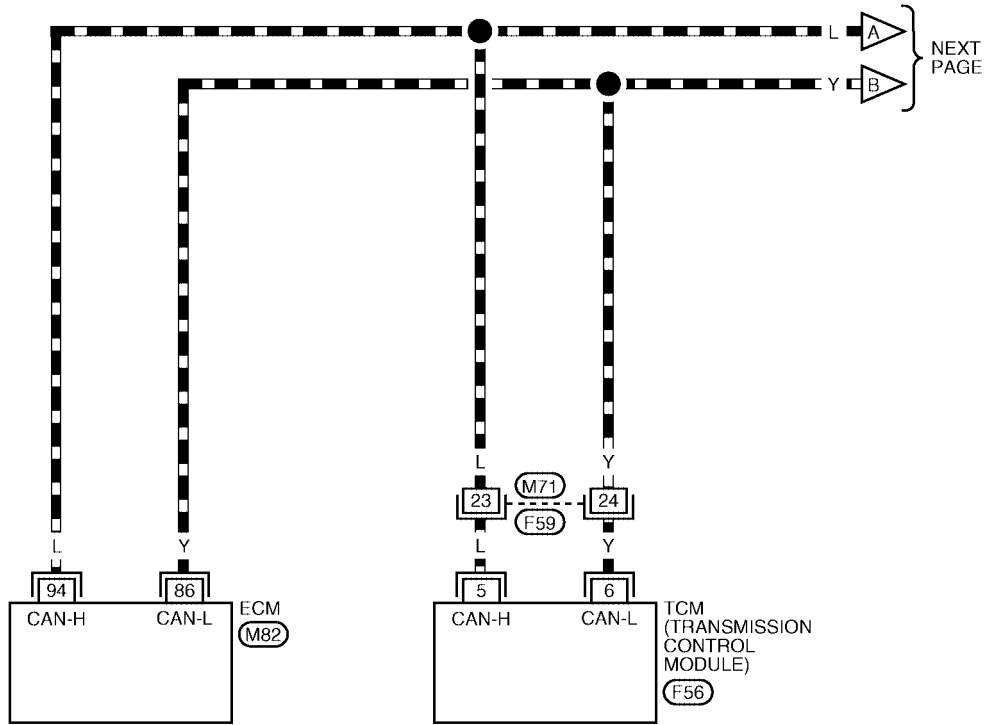
WKWA0441E

Wiring Diagram - CAN -

EKS00A55

LAN-CAN-19

— : DATA LINE



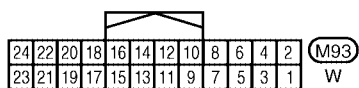
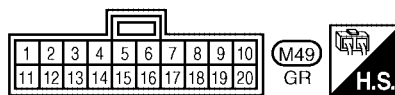
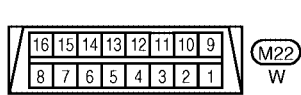
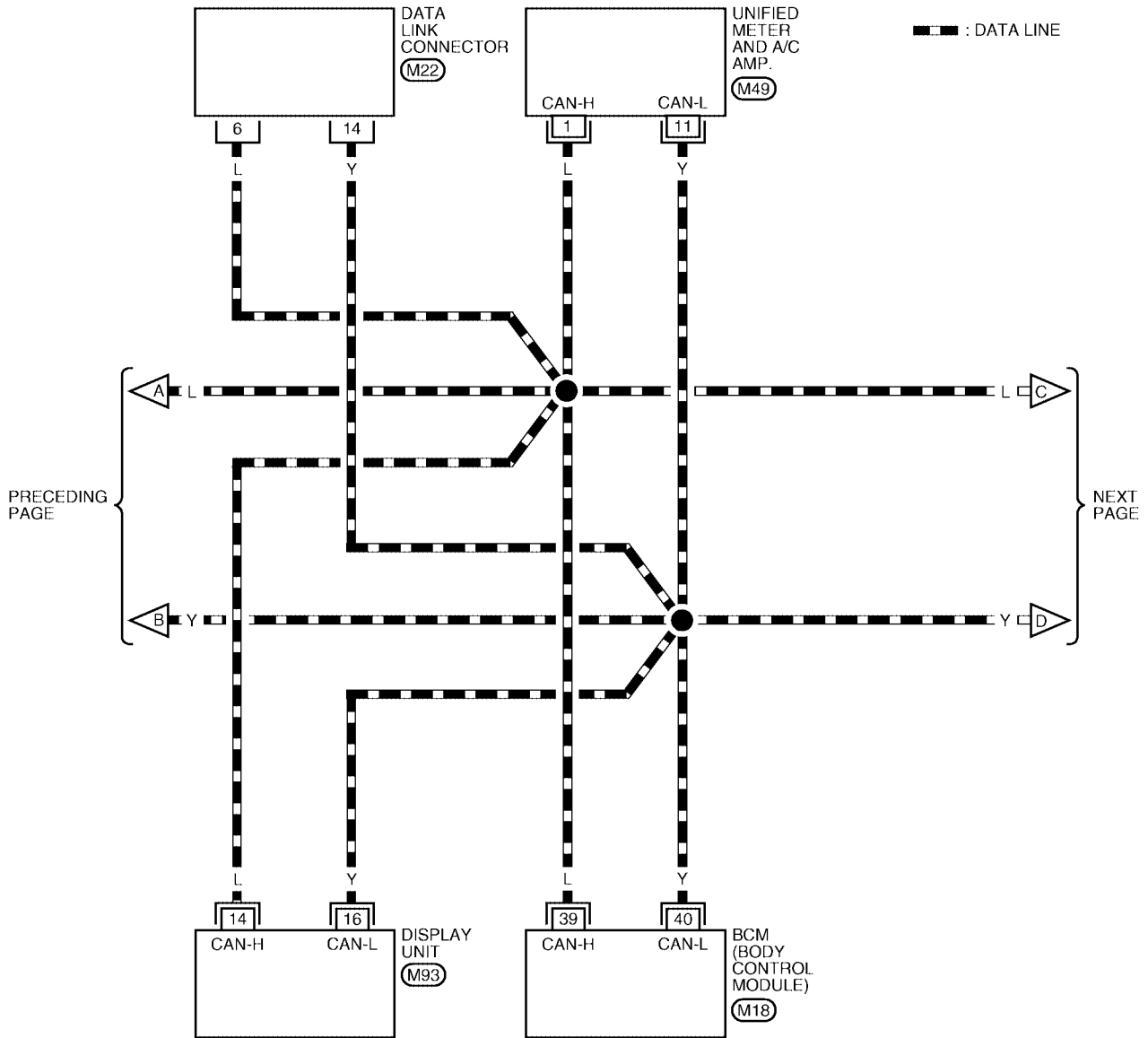
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1	2	3	4	5	6	7	8	9	10	11	F59		
12	13	14	15	16	17	18	19	20	21	22	23	24	W

REFER TO THE FOLLOWING.
 (M82), (F56) - ELECTRICAL
 UNITS

BKWA0216E

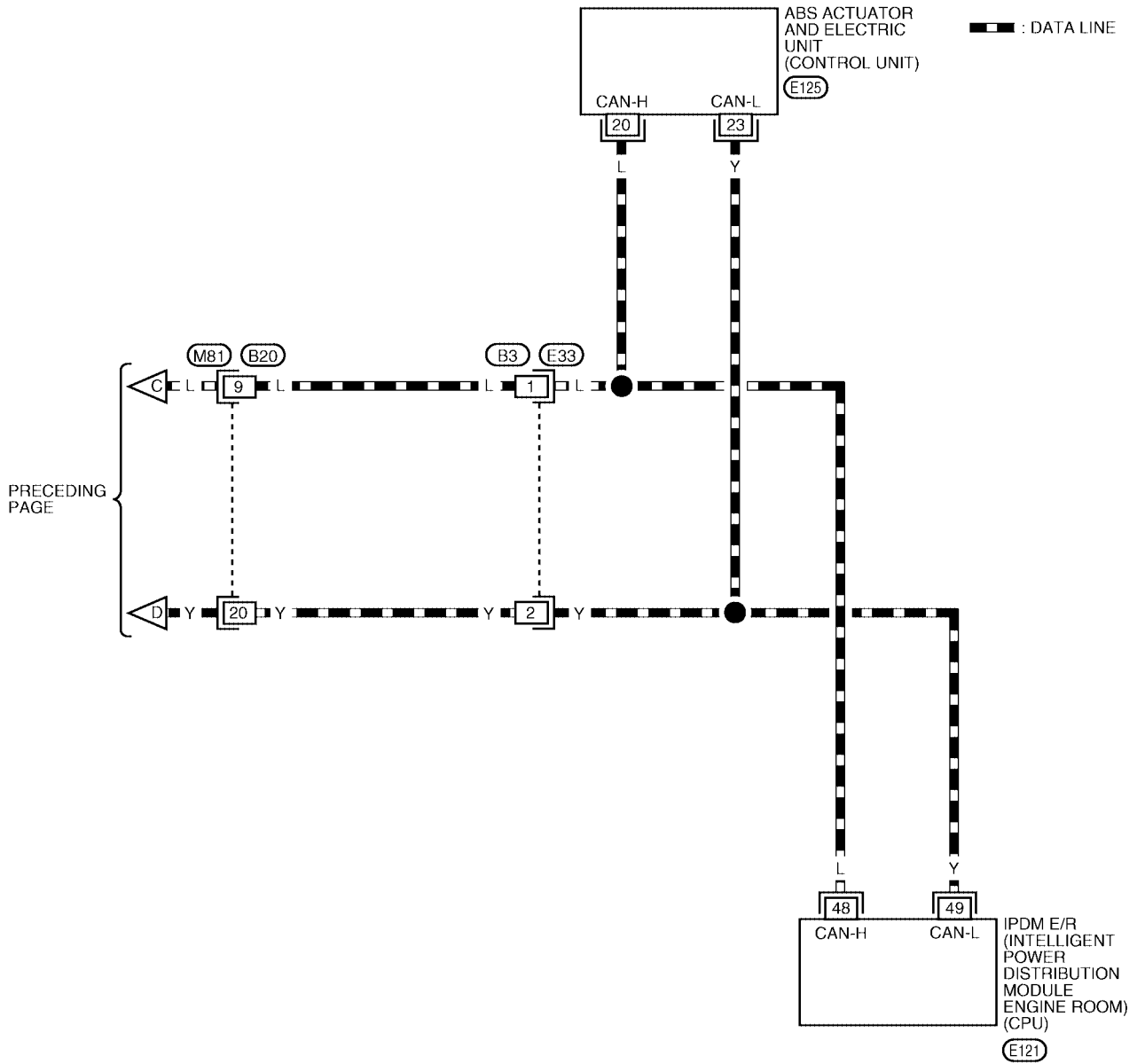
LAN-CAN-20



REFER TO THE FOLLOWING.
M18 - ELECTRICAL UNITS

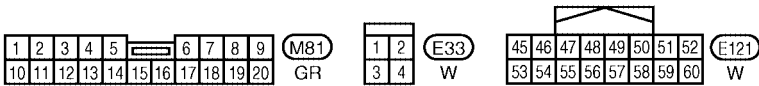
BKWA0217E

LAN-CAN-21



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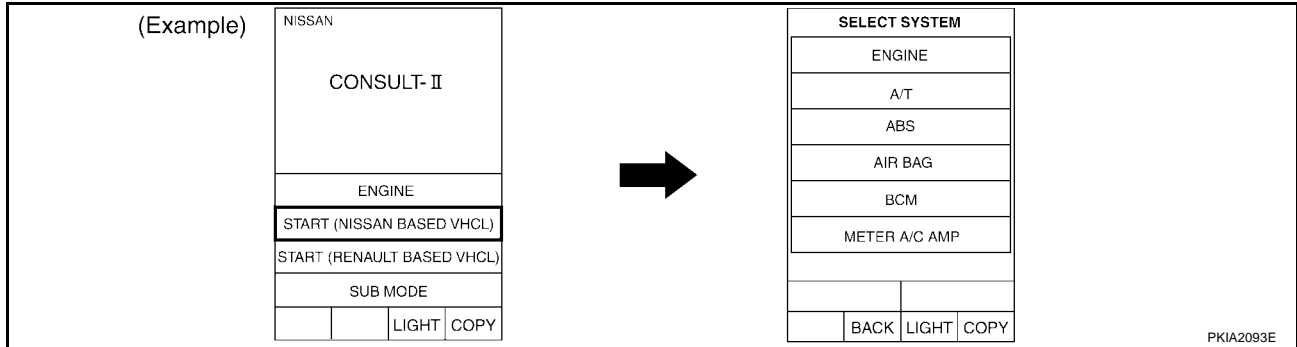


REFER TO THE FOLLOWING.
(E125) - ELECTRICAL UNITS

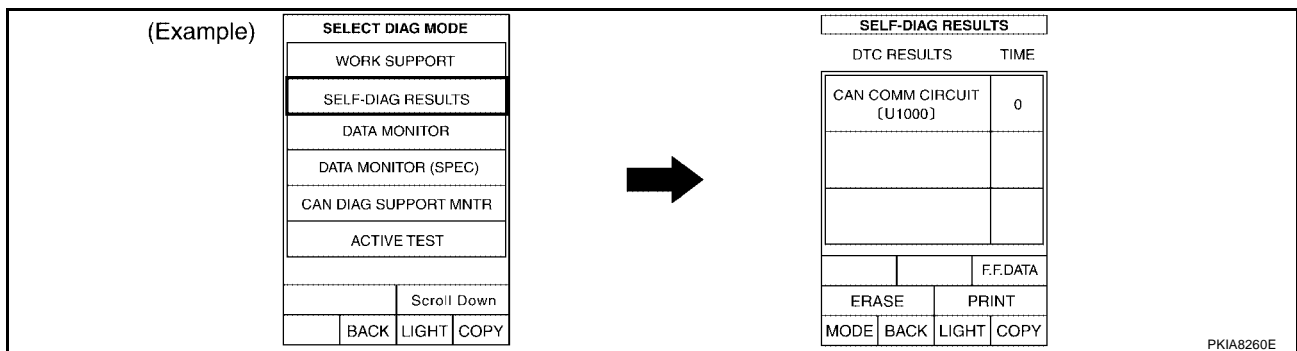
BKWA0218E

Work Flow

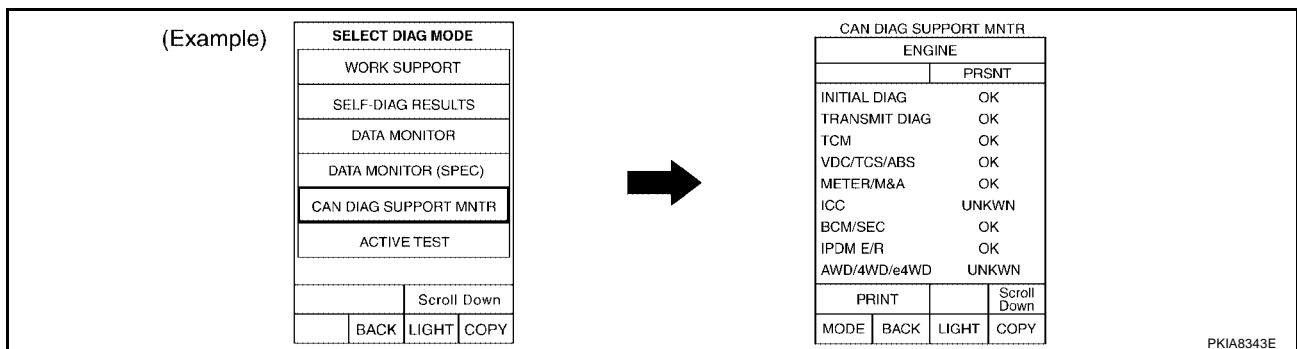
- When there are no indications of "TRANSMISSION", "METER A/C AMP", "BCM" or "IPDM E/R" on "SELECT SYSTEM" display of CONSULT-II, print the "SELECT SYSTEM".



- Print all the data of "SELF-DIAG RESULTS" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP" and "ABS" displayed on CONSULT-II.



- Print all the data of "CAN DIAG SUPPORT MNTR" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Based on the indications of "SELECT SYSTEM" and the results of "CAN DIAG SUPPORT MNTR", put marks onto the items with "No indication", "NG", or "UNKWN" in the check sheet table.

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR									
	Initial diagnosis	Transmit diagnosis	Receive diagnosis							IPDM E/R
			ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS		
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

BKIA0057E

NOTE:

- If "NG" is displayed on "INITIAL DIAG (Initial diagnosis)" as "CAN DIAG SUPPORT MNTR" for the diagnosed control unit, replace the control unit.

CAN SYSTEM (TYPE 7)

[CAN]

-
- The “CAN DIAG SUPPORT MNTR” items which are not in check sheet table are not related to diagnostic procedure on service manual.
Therefore, it is not necessary to check the status of the “CAN DIAG SUPPORT MNTR” items not in check sheet table.
5. Mark the “NG” or “UNKWN” item of the check sheet table from the result of CAN DIAG SUPPORT MONITOR check sheet.
- NOTE:**
If “NG” is displayed on “CAN COMM” as “CAN DIAG SUPPORT MNTR” for the diagnosed control unit, replace the control unit.
6. According to the Check Sheet Results, start inspection.

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M

CAN SYSTEM (TYPE 7)

[CAN]

CHECK SHEET

Check sheet table

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
ECM	TCM			DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R		
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

Symptoms:

Attach copy of
SELECT SYSTEM

Attach copy of
SELECT SYSTEM

Attach copy of
display unit
CAN DIAG MONITOR
check sheet

BKIA0077E

CAN SYSTEM (TYPE 7)

[CAN]

Attach copy of ENGINE SELF-DIAG RESULTS	Attach copy of TRANSMISSION SELF-DIAG RESUL	Attach copy of ABS SELF-DIAG RESULTS
Attach copy of BCM SELF-DIAG RESULTS	Attach copy of METER A/C AMP SELF-DIAG RESULTS	Attach copy of IPDM E/R SELF-DIAG RESULTS
Attach copy of ENGINE CAN DIAG SUPPORT MNTR	Attach copy of TRANSMISSION CAN DIAG SUPPORT MNTR	Attach copy of ABS CAN DIAG SUPPORT MNTR
Attach copy of BCM CAN DIAG SUPPORT MNTR	Attach copy of METER A/C AMP CAN DIAG SUPPORT MNTR	Attach copy of IPDM E/R CAN DIAG SUPPORT MNTR

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BKIA0084E

CAN SYSTEM (TYPE 7)

[CAN]

CHECK SHEET RESULTS

Case 1

Replace ECM.

SELECT SYSTEM screen	Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR							
			ECM	TCM	DISPLAY	Receive diagnosis		VDC/TCS/ABS	IPDM E/R	
						METER/M&A	BCM/SEC			
ENGINE	-	✓	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2386E

SELECT SYSTEM screen	Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR							
			ECM	TCM	DISPLAY	Receive diagnosis		VDC/TCS/ABS	IPDM E/R	
						METER/M&A	BCM/SEC			
ENGINE	-	NG	UNKWN	-	✓	-	✓	✓	-	✓
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2387E

Case 2

Replace TCM.

SELECT SYSTEM screen	Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR							
			ECM	TCM	DISPLAY	Receive diagnosis		VDC/TCS/ABS	IPDM E/R	
						METER/M&A	BCM/SEC			
ENGINE	-	NG	UNKWN	-	✓	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	-	✓	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	✓	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2388E

SELECT SYSTEM screen	Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR							
			ECM	TCM	DISPLAY	Receive diagnosis		VDC/TCS/ABS	IPDM E/R	
						METER/M&A	BCM/SEC			
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	-	NG	UNKWN	✓	-	-	✓	-	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2389E

CAN SYSTEM (TYPE 7)

[CAN]

Case 3

Replace display unit.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2390E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2391E

Case 4

Replace BCM. Refer to.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2392E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	CAN COMM	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2393E

CAN SYSTEM (TYPE 7)

[CAN]

Case 5

Replace unified meter and A/C amp.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR										
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						BCM/SEC	VDC/TCS/ABS	IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A					
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	-	
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7		
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN		
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN		
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-		
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-		

WKIA2394E

Case 6

Replace ABS actuator and electric unit (control unit).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR										
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						BCM/SEC	VDC/TCS/ABS	IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A					
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN		
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-		
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7		
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN		
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN		
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-		
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-		

WKIA2395E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR										
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						BCM/SEC	VDC/TCS/ABS	IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A					
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN		
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-		
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7		
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN		
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN		
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-		
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-		

WKIA2396E

Case 7

Replace IPDM E/R.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR										
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						BCM/SEC	VDC/TCS/ABS	IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A					
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN		
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-		
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7		
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN		
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN		
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-		
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-		

WKIA2397E

CAN SYSTEM (TYPE 7)

[CAN]

Case 8

Check harness between TCM and data link connector. Refer to [LAN-167](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/TC/ABS	
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2398E

Case 9

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to [LAN-167](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/TC/ABS	
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2399E

Case 10

Check ECM circuit. Refer to [LAN-168](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/TC/ABS	
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2400E

Case 11

Check TCM circuit. Refer to [LAN-169](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/TC/ABS	
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2401E

CAN SYSTEM (TYPE 7)

[CAN]

Case 12

Check display unit circuit. Refer to [LAN-169](#).

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				Receive diagnosis						
				ECM	TCM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	-	UNKW	-	UNKW	UNKW	-	UNKW
TRANSMISSION	-	NG	UNKW	UNKW	-	-	UNKW	-	-	-
Display unit	-	CAN COMM	✓ CAN 1	✓ CAN 3	-	-	✓ CAN 5	✓ CAN 2	-	✓ CAN 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	-	UNKW	-	-	UNKW
ABS	-	NG	UNKW	UNKW	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	-	UNKW	-	-

WKIA2402E

Case 13

Check data link connector circuit. Refer to [LAN-170](#).

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				Receive diagnosis						
				ECM	TCM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	-	UNKW	-	UNKW	UNKW	-	UNKW
TRANSMISSION	-	NG	UNKW	UNKW	-	-	UNKW	-	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	-	UNKW	-	-	UNKW
ABS	-	NG	UNKW	UNKW	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	-	UNKW	-	-

WKIA2403E

Case 14

Check BCM circuit. Refer to [LAN-170](#).

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				Receive diagnosis						
				ECM	TCM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	-	UNKW	-	UNKW	UNKW	-	UNKW
TRANSMISSION	-	NG	UNKW	UNKW	-	-	UNKW	-	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	✓ CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	-	UNKW	-	-	UNKW
ABS	-	NG	UNKW	UNKW	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	-	UNKW	-	-

WKIA2404E

Case 15

Check unified meter and A/C amp. circuit. Refer to [LAN-171](#).

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				Receive diagnosis						
				ECM	TCM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	-	UNKW	-	UNKW	UNKW	-	UNKW
TRANSMISSION	-	NG	UNKW	UNKW	-	-	UNKW	-	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	✓ CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	-	UNKW	-	-	UNKW
ABS	-	NG	UNKW	UNKW	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	-	UNKW	-	-

WKIA2405E

CAN SYSTEM (TYPE 7)

[CAN]

Case 16

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-171](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/TC/ABS	
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2406E

Case 17

Check IPDM E/R circuit. Refer to [LAN-172](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/TC/ABS	
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2407E

Case 18

Check CAN communication circuit. Refer to [LAN-172](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/TC/ABS	
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2408E

Case 19

Check IPDM E/R Ignition relay circuit. Refer to [LAN-173](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/TC/ABS	
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2409E

CAN SYSTEM (TYPE 7)

[CAN]

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	TCM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2410E

Circuit Check Between TCM and Data Link Connector**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

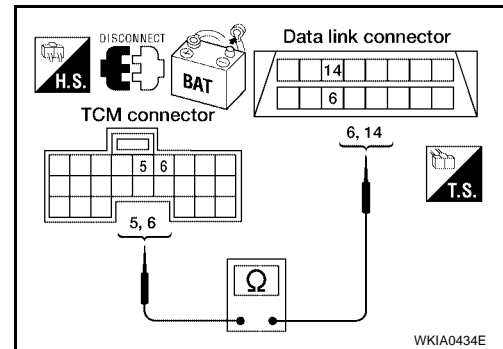
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between TCM connector F56 terminals 5 (L), 6 (Y) and data link connector M22 terminals 6 (L), 14 (Y).

- 5 (L) - 6 (L) : Continuity should exist.**
6 (Y) - 14 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-156, "Work Flow"](#).
 NG >> Repair harness.

**Circuit Check Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit)****1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ABS actuator and electric unit (control unit) connector E125 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

A

B

C

D

E

F

G

H

I

J

LAN

L

M

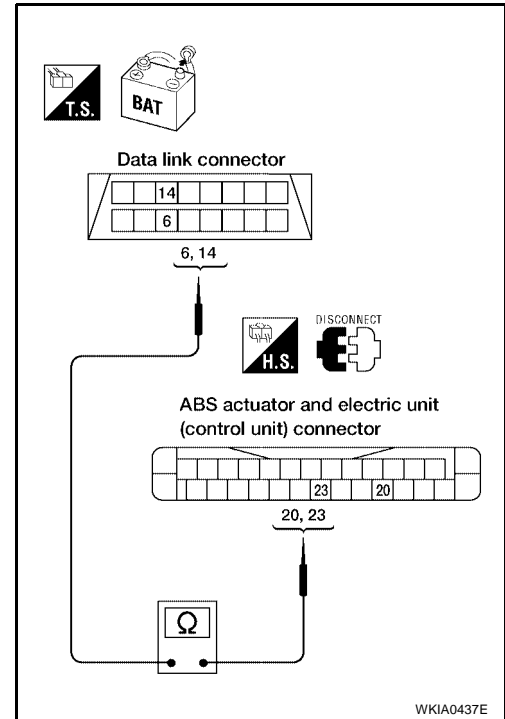
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between data link connector M22 terminals 6 (L), 14 (Y) and ABS actuator and electric unit (control unit) connector E125 terminals 20 (L), 23 (Y).

- 6 (L) - 20 (L) : Continuity should exist.**
- 14 (Y) - 23 (Y) : Continuity should exist.**

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-156](#).
- NG >> Repair harness.



EKS00A59

ECM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
- NG >> Repair or replace as necessary.

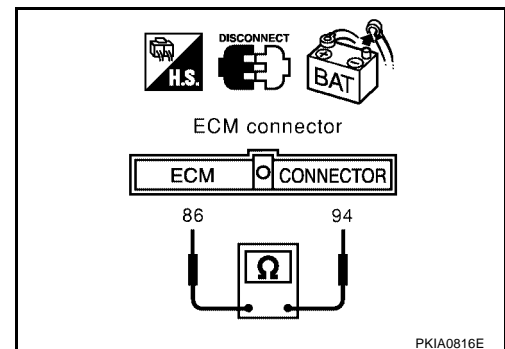
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between ECM connector M82 terminal 94 (L) and terminal 86 (Y).

- 94 (L) - 86 (Y) : Approx. 108 - 132Ω**

OK or NG

- OK >> Replace ECM.
- NG >> Repair harness between ECM connector M82 and TCM connector F56.



TCM Circuit Check**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

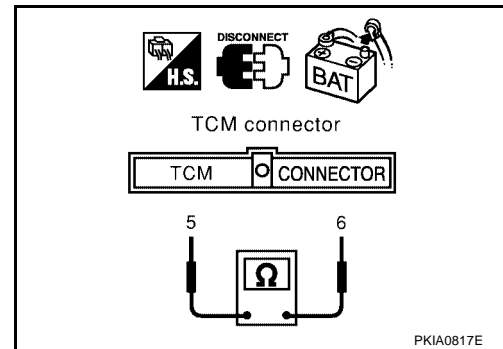
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between TCM connector F56 terminal 5 (L) and terminal 6 (Y).

5 (L) - 6 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace TCM.
 NG >> Repair harness between TCM connector F56 and ECM connector M82.

**Display Unit Circuit Check****1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect display unit connector M93.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

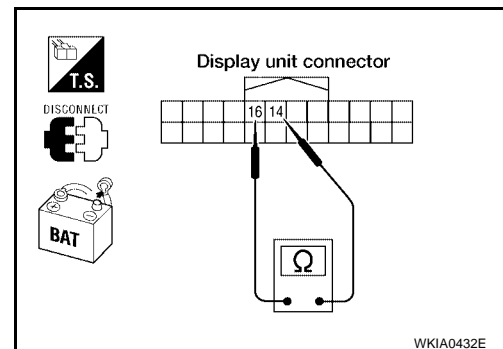
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between display unit connector M93 terminal 25 (L) and terminal 26 (Y).

14 (L) - 16 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace display unit.
 NG >> Repair harness between display unit connector M93 and data link connector M22.



Data Link Connector Circuit Check**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Check data link connector M22 terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

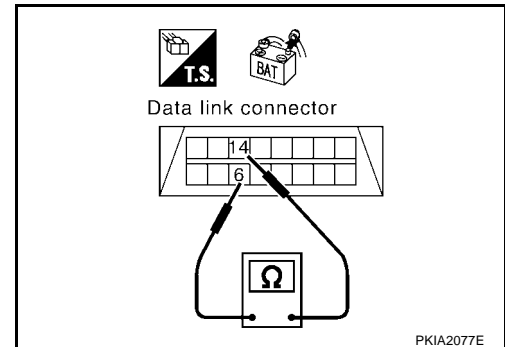
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector M22 terminal 6 (L) and terminal 14 (Y).

6 (L) - 14 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-156](#).
 NG >> Repair harness between data link connector M22 and BCM connector M18.

**BCM Circuit Check****1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect BCM connector M18.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

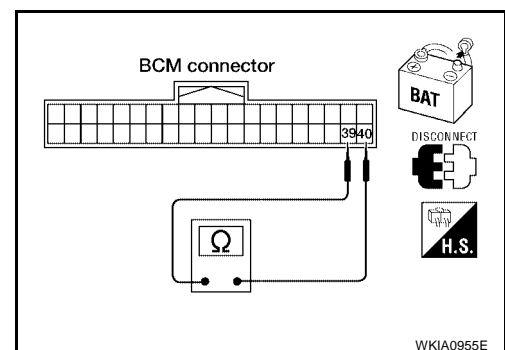
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between BCM connector M18 terminal 39 (L) and terminal 40 (Y).

39 (L) - 40 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace BCM.
 NG >> Repair harness between BCM connector M18 and data link connector M22.



Unified Meter and A/C Amp. Circuit Check**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect unified meter and A/C amp. connector M49.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

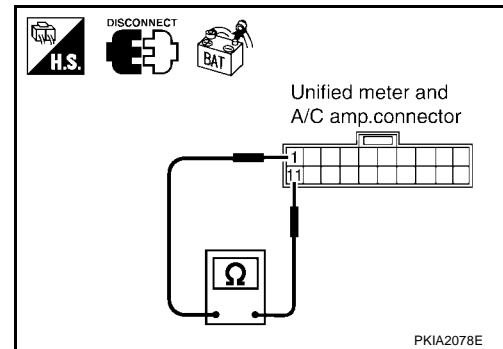
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between unified meter and A/C amp. connector M49 terminal 1 (L) and terminal 11 (Y).

1 (L) - 11 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace unified meter and A/C amp.
 NG >> Repair harness between unified meter and A/C amp. connector M49 and data link connector M22.

**ABS Actuator and Electric Unit (Control Unit) Circuit Check****1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ABS actuator and electric unit (control unit) connector E125.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

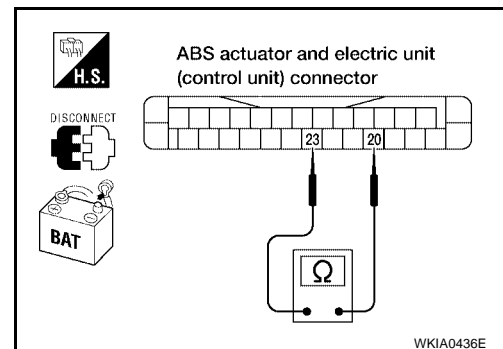
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between ABS actuator and electric unit (control unit) connector E125 terminal 20 (L) and terminal 23 (Y).

20 (L) - 23 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace ABS actuator and electric unit (control unit).
 NG >> Repair harness between ABS actuator and electric unit (control unit) connector E125 and IPDM E/R connector E121.



IPDM E/R Circuit Check**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect IPDM E/R connector E121.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

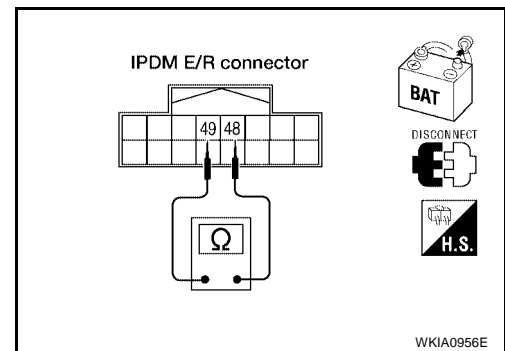
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between IPDM E/R connector E121 terminal 48 (L) and terminal 49 (Y).

48 (L) - 49 (Y) : Approx. 108 - 132Ω

OK or NG

- OK >> Replace IPDM E/R.
 NG >> Repair harness between IPDM E/R connector E121 and ABS actuator and electric unit (control unit) connector E125.

**CAN Communication Circuit Check****1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect the following module and control unit connectors and check terminals for deformation, disconnection, looseness or damage.
 - ECM
 - TCM (Transmission control module)
 - Display unit
 - BCM (Body control module)
 - Unified meter and A/C amp.
 - ABS actuator and electric unit (control unit)
 - IPDM E/R (Intelligent power distribution module engine room)

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

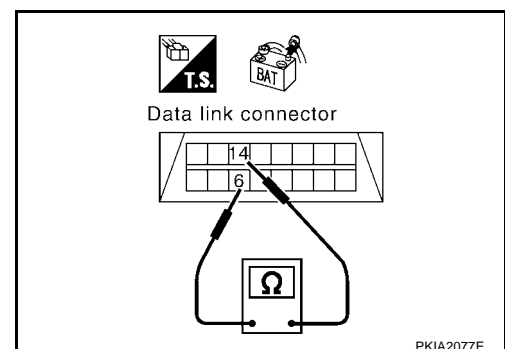
2. CHECK HARNESS FOR SHORTED CIRCUITS

With all module and control unit connectors disconnected, check continuity between data link connector M22 terminals 6 (L) and 14 (Y).

6 (L) - 14 (Y) : Continuity should not exist.

OK or NG

- OK >> GO TO 3.
 NG >> Repair the harness.



3. CHECK HARNESS FOR SHORT TO GROUND

Check continuity between data link connector M22 terminals 6 (L), 14 (Y) and ground.

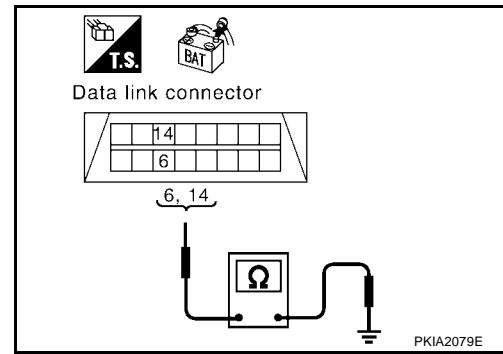
6 (L) - Ground : **Continuity should not exist.**

14 (Y) - Ground : **Continuity should not exist.**

OK or NG

OK >> Check ECM and IPDM E/R. Refer to [LAN-173, "Component Inspection"](#).

NG >> Repair the harness.



EKS00A5I

IPDM E/R Ignition Relay Circuit Check

Check the following. If no problem is found, replace the IPDM E/R.

- IPDM E/R power supply circuit. Refer to [PG-24, "IPDM E/R Power/Ground Circuit Inspection"](#).
- Ignition power supply circuit. Refer to [PG-11, "IGNITION POWER SUPPLY — IGNITION SW. IN ON AND/OR START"](#).

Component Inspection

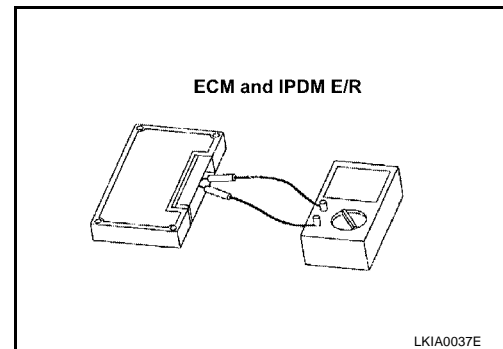
ECM/IPDM E/R INTERNAL CIRCUIT INSPECTION

- Remove ECM and IPDM E/R from vehicle.
- Check resistance between ECM terminals 94 and 86.

94 - 86 : **Approx. 108 - 132Ω**
- Check resistance between IPDM E/R terminals 48 and 49.

48 - 49 : **Approx. 108 - 132Ω**

EKS00A5J



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G
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LAN
L
M

CAN SYSTEM (TYPE 8)

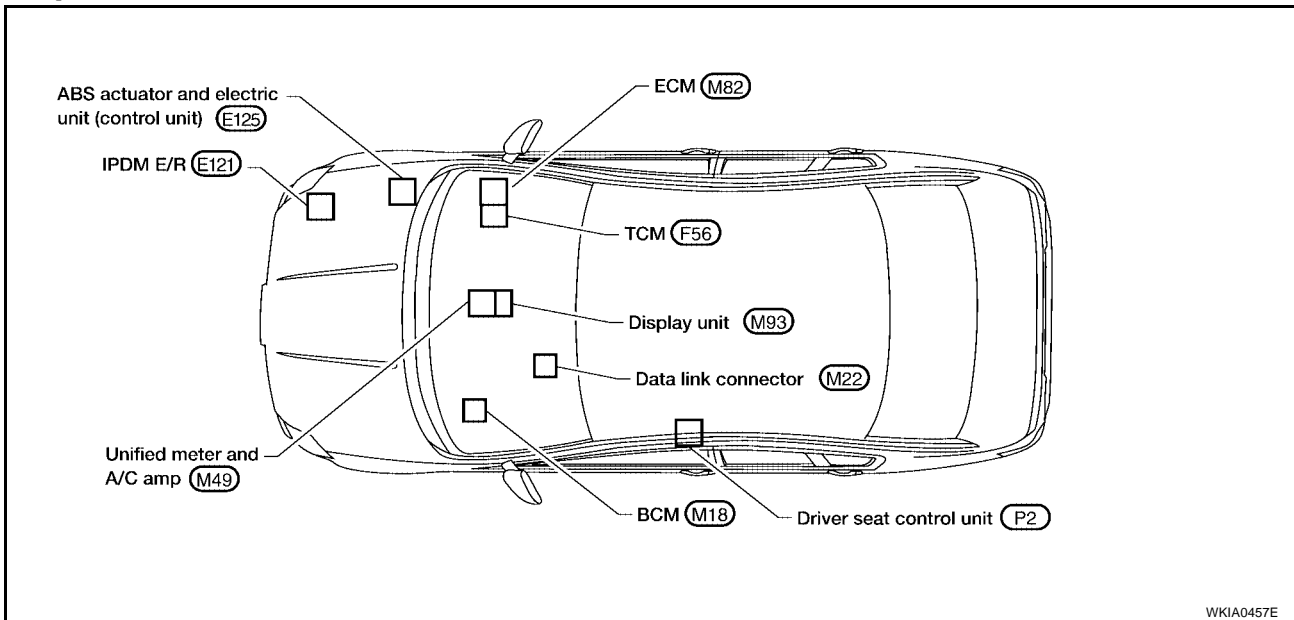
System Description

EKS00A4I

CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H line, CAN L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

Component Parts and Harness Connector Location

EKS00A4J

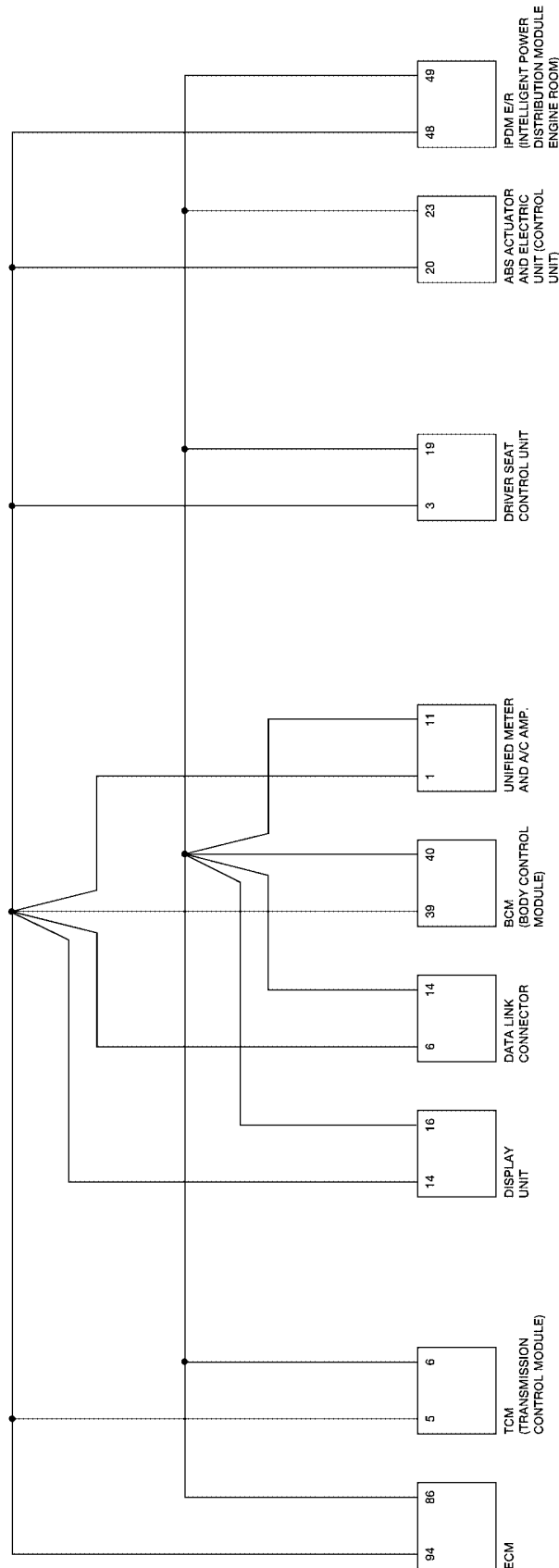


CAN SYSTEM (TYPE 8)

[CAN]

Schematic

EKS00A4K



A
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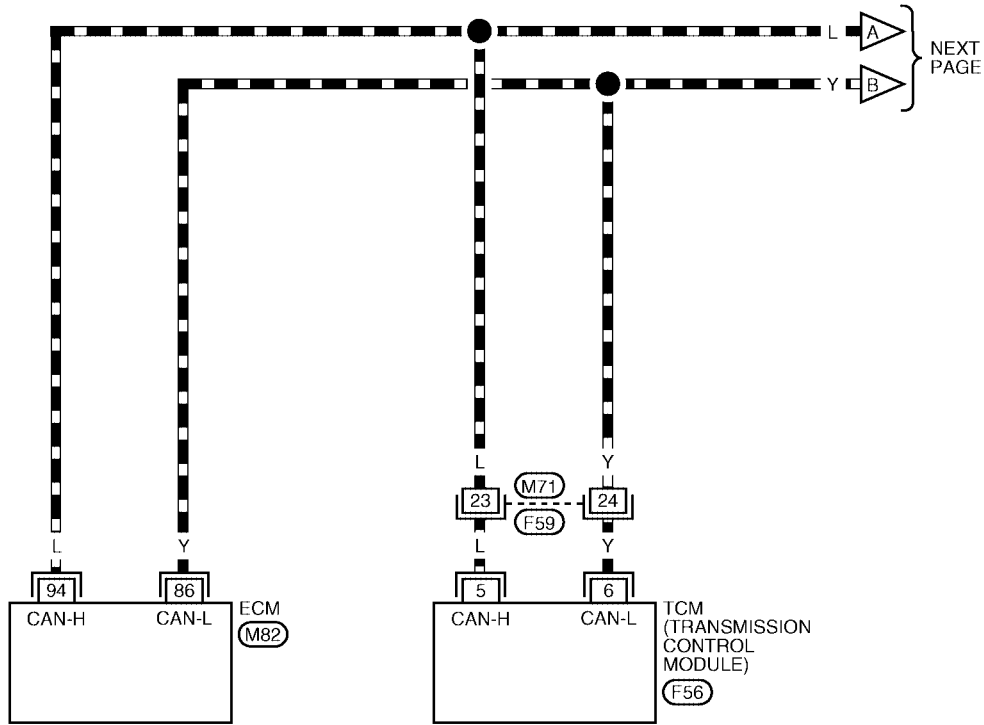
LAN

WKWA0437E

Wiring Diagram - CAN -

LAN-CAN-22

— : DATA LINE



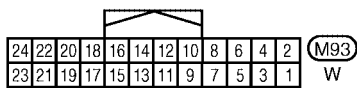
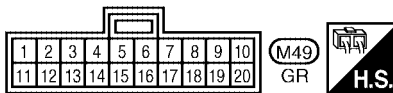
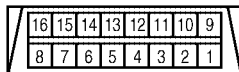
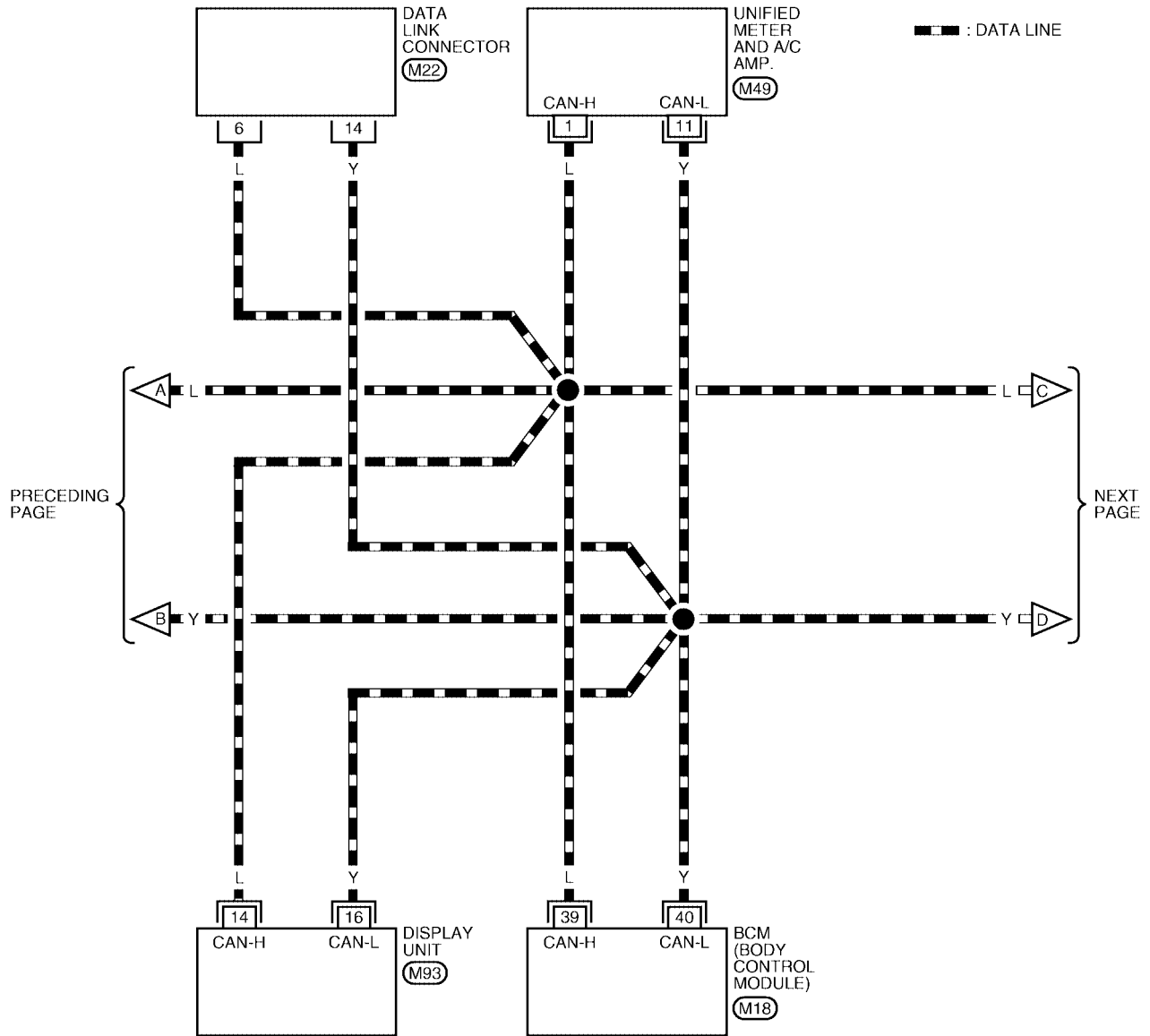
1	2	3	4	5	6	7	8	9	10	11	F59		
12	13	14	15	16	17	18	19	20	21	22	23	24	W

REFER TO THE FOLLOWING.
 (M82), (F56) - ELECTRICAL
 UNITS

CAN SYSTEM (TYPE 8)

[CAN]

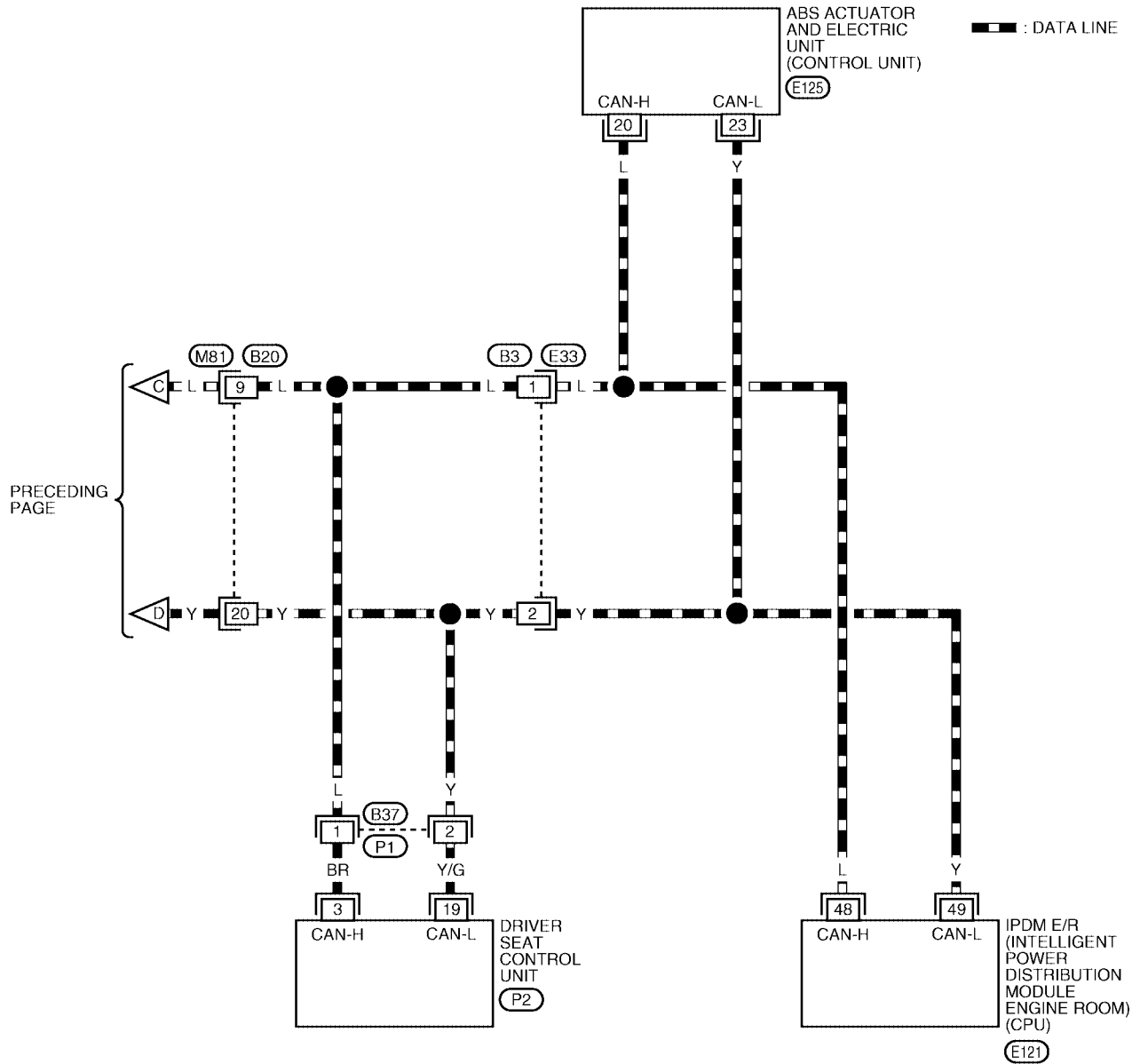
LAN-CAN-23



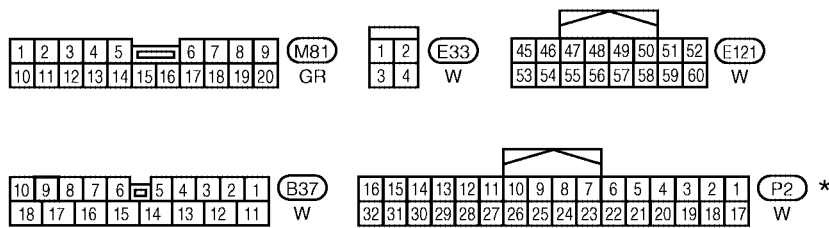
REFER TO THE FOLLOWING.
(M18) - ELECTRICAL UNITS

BKWA0220E

LAN-CAN-24



PRECEDING PAGE



REFER TO THE FOLLOWING.
E125 - ELECTRICAL UNITS

*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT" OF PG SECTION.

BKWA0221E

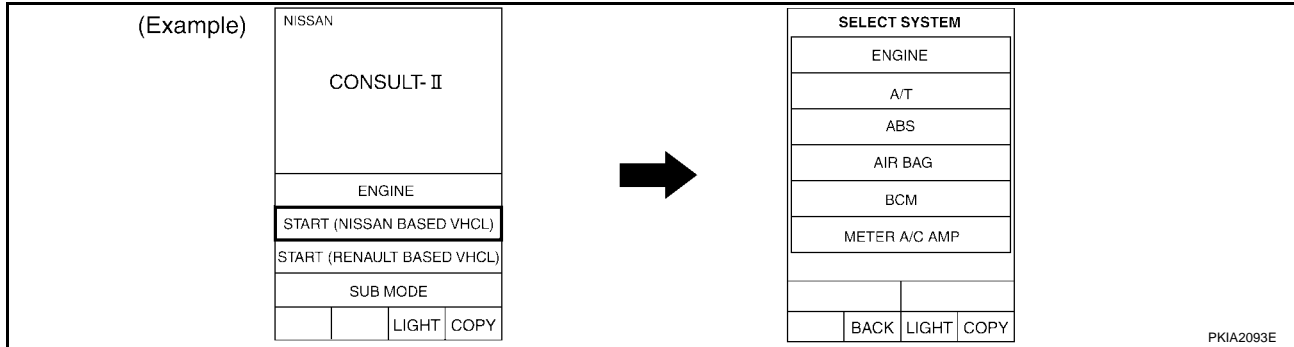
CAN SYSTEM (TYPE 8)

[CAN]

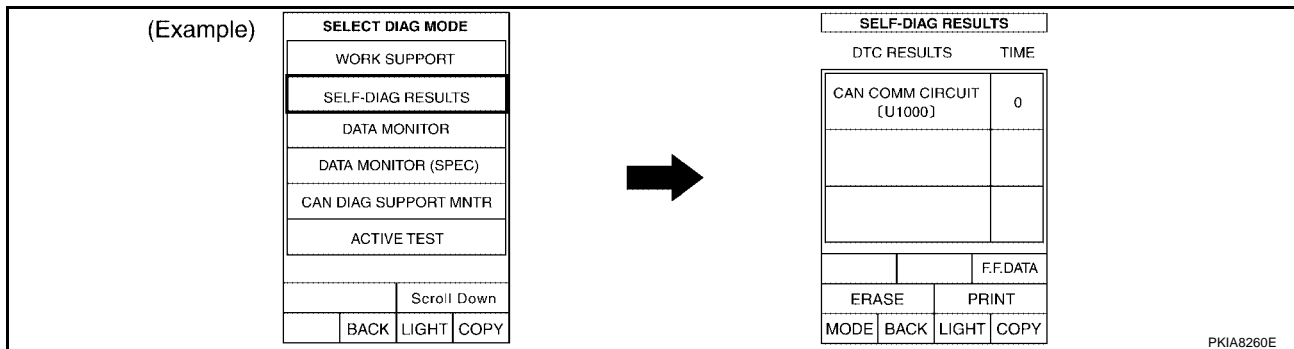
EKS00A4M

Work Flow

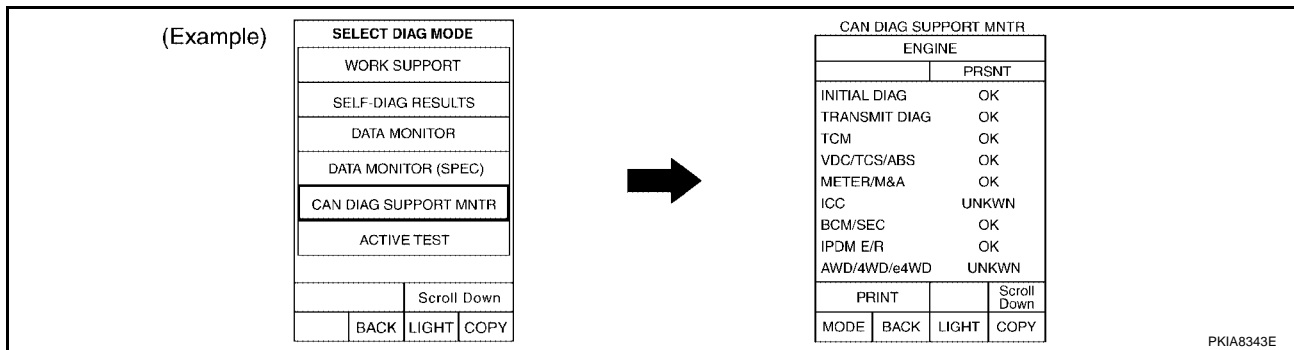
- When there are no indications of "TRANSMISSION", "METER A/C AMP", "BCM", "IPDM E/R" or "AUTO DRIVE POS." on "SELECT SYSTEM" display of CONSULT-II, print the "SELECT SYSTEM".



- Print all the data of "SELF-DIAG RESULTS" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Print all the data of "CAN DIAG SUPPORT MNTR" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Based on the indications of "SELECT SYSTEM" and the results of "CAN DIAG SUPPORT MNTR", put marks onto the items with "No indication", "NG", or "UNKWN" in the check sheet table.

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR								
	Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
			ECM	TCM	DISPLAY	ME-TRU M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit		CAN COMM	CAN 1	CAN 3		CAN 5	CAN 7		CAN 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	UNKWN	-	-

BKIA0058E

NOTE:

- If "NG" is displayed on "INITIAL DIAG (Initial diagnosis)" as "CAN DIAG SUPPORT MNTR" for the diagnosed control unit, replace the control unit.

CAN SYSTEM (TYPE 8)

[CAN]

-
- The “CAN DIAG SUPPORT MNTR” items which are not in check sheet table are not related to diagnostic procedure on service manual.
Therefore, it is not necessary to check the status of the “CAN DIAG SUPPORT MNTR” items not in check sheet table.
5. Mark the “NG” or “UNKWN” item of the check sheet table from the result of CAN DIAG SUPPORT MONITOR check sheet.

NOTE:

If “NG” is displayed on “CAN COMM” as “CAN DIAG SUPPORT MNTR” for the diagnosed control unit, replace the control unit.

6. According to the Check Sheet Results, start inspection.

CAN SYSTEM (TYPE 8)

[CAN]

CHECK SHEET

Check sheet table

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

Symptoms:

Attach copy of
SELECT SYSTEM

Attach copy of
SELECT SYSTEM

Attach copy of
display unit
CAN DIAG MONITOR
check sheet

LAN

BKIA0078E

CAN SYSTEM (TYPE 8)

[CAN]

Attach copy of
ENGINE
SELF-DIAG RESULTS

Attach copy of
TRANSMISSION
SELF-DIAG RESULTS

Attach copy of
BCM
SELF-DIAG RESULTS

Attach copy of
METER A/C AMP
SELF-DIAG RESULTS

Attach copy of
ABS
SELF-DIAG RESULTS

Attach copy of
AUTO DRIVE POS.
SELF-DIAG RESULTS

Attach copy of
IPDM E/R
SELF-DIAG RESULTS

Attach copy of
ENGINE
CAN DIAG SUPPORT
MNTR

Attach copy of
TRANSMISSION
CAN DIAG SUPPORT
MNTR

Attach copy of
BCM
CAN DIAG SUPPORT
MNTR

Attach copy of
METER A/C AMP
CAN DIAG SUPPORT
MNTR

Attach copy of
ABS
CAN DIAG SUPPORT
MNTR

Attach copy of
AUTO DRIVE POS.
CAN DIAG SUPPORT
MNTR

Attach copy of
IPDM E/R
CAN DIAG SUPPORT
MNTR

BKIA0085E

CAN SYSTEM (TYPE 8)

[CAN]

CHECK SHEET RESULTS

Case 1

Replace ECM.

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNT'R						
				Receive diagnosis						
				ECM	TCM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	✓	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2411E

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNT'R						
				Receive diagnosis						
				ECM	TCM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	✓	-	✓	✓	-	✓
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2412E

Case 2

Replace TCM.

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNT'R						
				Receive diagnosis						
				ECM	TCM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	✓	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	-	✓	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	✓	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	✓	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2413E

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNT'R						
				Receive diagnosis						
				ECM	TCM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	-	NG	UNKWN	✓	-	-	✓	-	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2414E

CAN SYSTEM (TYPE 8)

[CAN]

Case 3

Replace display unit.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CSI/ABS	
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN		UNKWN
TRANSMISSION		NG	UNKWN	UNKWN	-	-	UNKWN			-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2		CAN 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN			UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-			
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN		

WKIA2415E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CSI/ABS	
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN		UNKWN
TRANSMISSION		NG	UNKWN	UNKWN	-	-	UNKWN			-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2		CAN 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN			UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-			
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN		

WKIA2416E

Case 4

Replace BCM.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CSI/ABS	
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN		UNKWN
TRANSMISSION		NG	UNKWN	UNKWN	-	-	UNKWN			-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2		CAN 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN			UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-			
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN		

WKIA2417E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CSI/ABS	
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN		UNKWN
TRANSMISSION		NG	UNKWN	UNKWN	-	-	UNKWN			-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2		CAN 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	UNKWN	UNKWN	UNKWN	-	-	UNKWN			UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-			
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN		

WKIA2418E

CAN SYSTEM (TYPE 8)

[CAN]

Case 5

Replace unified meter and A/C amp.

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	IPDM E/R
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION		NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2419E

Case 6

Replace driver seat control unit.

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	IPDM E/R
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION		NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2420E

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	IPDM E/R
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION		NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2421E

Case 7

Replace ABS actuator and electric unit (control unit).

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	IPDM E/R
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION		NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2422E

CAN SYSTEM (TYPE 8)

[CAN]

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				ECM	TCM	DISPLAY	Receive diagnosis METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION		NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2423E

Case 8

Replace IPDM E/R.

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				ECM	TCM	DISPLAY	Receive diagnosis METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE		NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN
TRANSMISSION		NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2424E

Case 9

Check harness between TCM and data link connector. Refer to [LAN-191](#).

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				ECM	TCM	DISPLAY	Receive diagnosis METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION		NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2425E

Case 10

Check harness between data link connector and driver seat control unit. Refer to [LAN-191](#).

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				ECM	TCM	DISPLAY	Receive diagnosis METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2426E

CAN SYSTEM (TYPE 8)

[CAN]

Case 11

Check harness between driver seat control unit and ABS actuator and electric unit (control unit). Refer to [LAN-192](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	ME-TR/M&A	BCM/SEC	VDC/CS/ABS	IPDM E/R
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION		NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2427E

Case 12

Check ECM circuit. Refer to [LAN-192](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	ME-TR/M&A	BCM/SEC	VDC/CS/ABS	IPDM E/R
ENGINE		NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN
TRANSMISSION		NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2428E

Case 13

Check TCM circuit. Refer to [LAN-193](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	ME-TR/M&A	BCM/SEC	VDC/CS/ABS	IPDM E/R
ENGINE		NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN
TRANSMISSION		NG	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	-	UNKWN
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2429E

Case 14

Check display unit circuit. Refer to [LAN-193](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	ME-TR/M&A	BCM/SEC	VDC/CS/ABS	IPDM E/R
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION		NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2430E

Case 15

Check data link connector circuit. Refer to [LAN-194](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	ECM	TCM	DISPLAY	Receive diagnosis METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION		NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication ✓		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication ✓	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS	No indication ✓	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication ✓		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2431E

Case 16

Check BCM circuit. Refer to [LAN-194](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	ECM	TCM	DISPLAY	Receive diagnosis METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN ✓	-	UNKWN
TRANSMISSION		NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2 ✓	-	CAN 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN ✓	UNKWN	UNKWN
BCM	No indication ✓	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN ✓	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN ✓	-	-

WKIA2432E

Case 17

Check unified meter and A/C amp. circuit. Refer to [LAN-195](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	ECM	TCM	DISPLAY	Receive diagnosis METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN ✓	UNKWN	-	UNKWN
TRANSMISSION		NG	UNKWN	UNKWN	-	-	UNKWN ✓	-	-	-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5 ✓	CAN 2	-	CAN 7
METER A/C AMP	No indication ✓		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN ✓	-	-	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN ✓	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2433E

Case 18

Check driver seat control unit circuit. Refer to [LAN-195](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	ECM	TCM	DISPLAY	Receive diagnosis METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION		NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS	No indication ✓	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2434E

CAN SYSTEM (TYPE 8)

[CAN]

Case 19

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-196](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	ME-TRU/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION		NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	✓	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	✓	✓	-	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2435E

Case 20

Check IPDM E/R circuit. Refer to [LAN-196](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	ME-TRU/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	✓
TRANSMISSION		NG	UNKWN	UNKWN	-	-	UNKWN	-	-	✓
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	✓
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	✓
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	✓
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2436E

Case 21

Check CAN communication circuit. Refer to [LAN-197](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	ME-TRU/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE		NG	✓	-	✓	-	✓	✓	-	✓
TRANSMISSION		NG	UNKWN	✓	-	-	UNKWN	✓	-	✓
Display unit		CAN COMM	✓	✓	-	-	✓	✓	-	✓
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	✓	✓	-	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2437E

Case 22

Check IPDM E/R Ignition relay circuit. Refer to [LAN-198](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	ME-TRU/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION		NG	UNKWN	✓	-	-	✓	-	-	-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	✓	-	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2438E

CAN SYSTEM (TYPE 8)

[CAN]

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	TCM	DISPLAY	METER/ M&A	BCM/SEC	VDC/CS/ ABS	IPDM E/R
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION		NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2439E

Circuit Check Between TCM and Data Link Connector**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

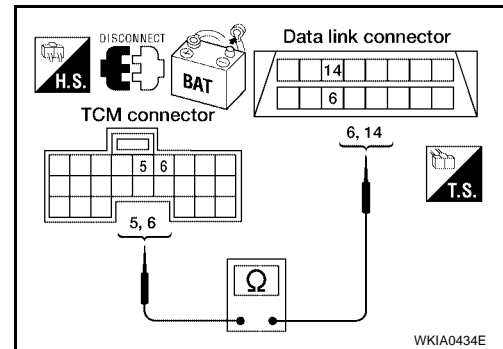
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between TCM connector F56 terminals 5 (L), 6 (Y) and data link connector M22 terminals 6 (L), 14 (Y).

- 5 (L) - 6 (L) : Continuity should exist.**
6 (Y) - 14 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-179, "Work Flow"](#).
 NG >> Repair harness.

**Circuit Check Between Driver Seat Control Unit and Data Link Connector****1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

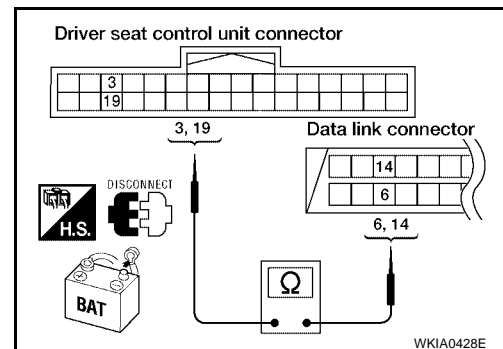
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and data link connector M22 terminals 6 (L), 14 (Y).

- 3 (BR) - 6 (L) : Continuity should exist.**
19 (Y/G) - 14 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-179](#).
 NG >> Repair harness.



Circuit Check Between Driver Seat Control Unit and ABS Actuator and Electric Unit (Control Unit)

EKS00A4P

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2, ABS actuator and electric unit (control unit) connector E125 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

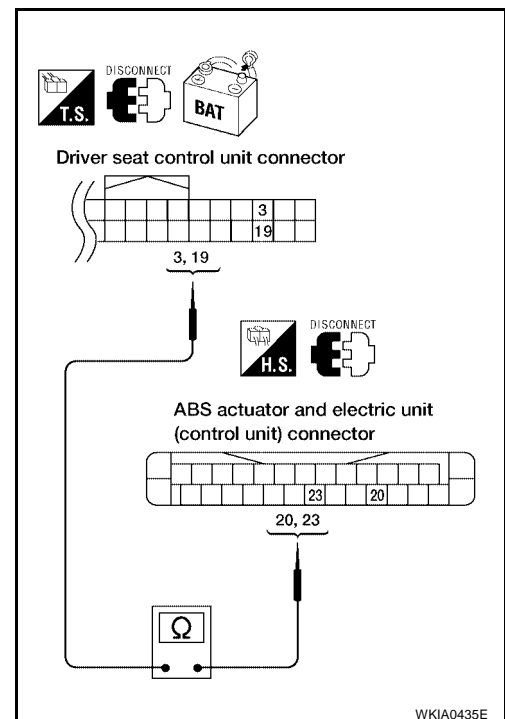
Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and ABS actuator and electric unit (control unit) connector E125 terminals 20 (L), 23 (Y).

3 (BR) - 20 (L) : Continuity should exist.

19 (Y/G) - 23 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-179](#).
 NG >> Repair harness.



ECM Circuit Check

EKS00A4Q

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

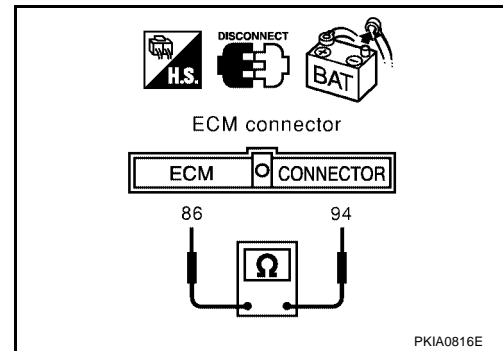
Check resistance between ECM connector M82 terminal 94 (L) and terminal 86 (Y).

94 (L) - 86 (Y)

: Approx. 108 - 132Ω

OK or NG

- OK >> Replace ECM.
 NG >> Repair harness between ECM connector M82 and TCM connector F56.



EKS00A4R

TCM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

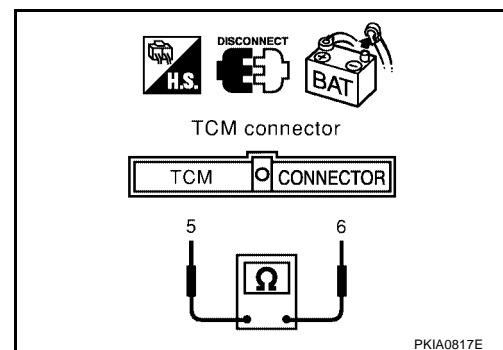
Check resistance between TCM connector F56 terminal 5 (L) and terminal 6 (Y).

5 (L) - 6 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace TCM.
 NG >> Repair harness between TCM connector F56 and ECM connector M82.



EKS00A4S

Display Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect display unit connector M93.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

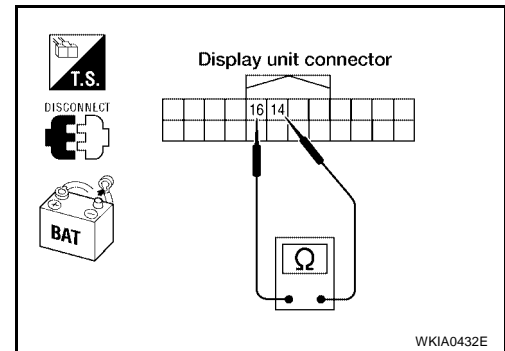
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between display unit connector M93 terminal 25 (L) and terminal 26 (Y).

14 (L) - 16 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace display unit.
- NG >> Repair harness between display unit connector M93 and data link connector M22.



Data Link Connector Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Check data link connector M22 terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
- NG >> Repair or replace as necessary.

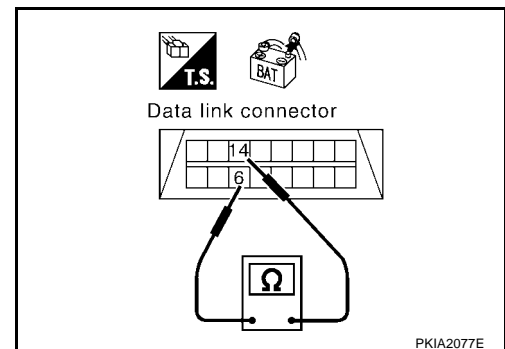
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector M22 terminal 6 (L) and terminal 14 (Y).

6 (L) - 14 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-179](#).
- NG >> Repair harness between data link connector M22 and BCM connector M18.



BCM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect BCM connector M18.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
- NG >> Repair or replace as necessary.

EKS00A4U

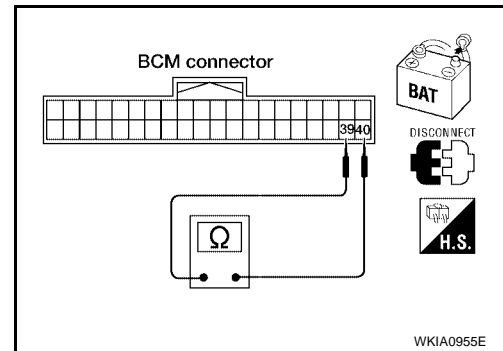
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between BCM connector M18 terminal 39 (L) and terminal 40 (Y).

39 (L) - 40 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace BCM.
 NG >> Repair harness between BCM connector M18 and data link connector M22.



Unified Meter and A/C Amp. Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect unified meter and A/C amp. connector M49.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

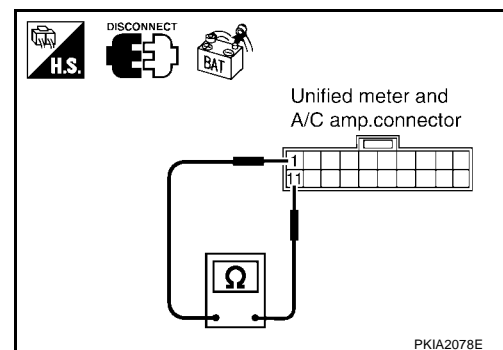
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between unified meter and A/C amp. connector M49 terminal 1 (L) and terminal 11 (Y).

1 (L) - 11 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace unified meter and A/C amp.
 NG >> Repair harness between unified meter and A/C amp. connector M49 and data link connector M22.



Driver Seat Control Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

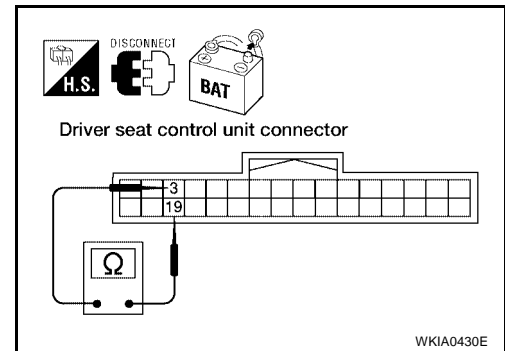
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between driver seat control unit connector P2 terminal 3 (BR) and terminal 19 (Y/G).

3 (BR) - 19 (Y/G) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace driver seat control unit.
 NG >> Repair harness between driver seat control unit connector P2 and data link connector M22.



ABS Actuator and Electric Unit (Control Unit) Circuit Check

EKS00A4X

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ABS actuator and electric unit (control unit) connector E125.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

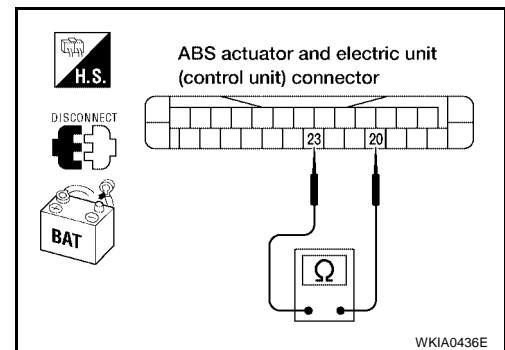
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between ABS actuator and electric unit (control unit) connector E125 terminal 20 (L) and terminal 23 (Y).

20 (L) - 23 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace ABS actuator and electric unit (control unit).
 NG >> Repair harness between ABS actuator and electric unit (control unit) connector E125 and IPDM E/R connector E121.



IPDM E/R Circuit Check

EKS00A4Y

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect IPDM E/R connector E121.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

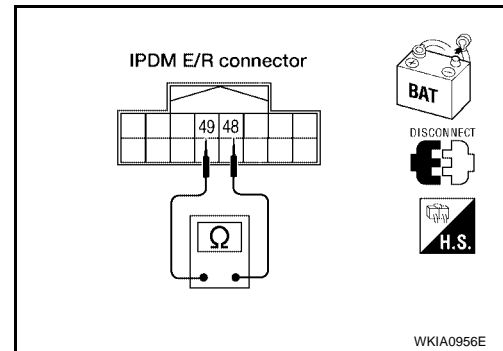
Check resistance between IPDM E/R connector E121 terminal 48 (L) and terminal 49 (Y).

48 (L) - 49 (Y)

: Approx. 108 - 132Ω

OK or NG

- OK >> Replace IPDM E/R.
 NG >> Repair harness between IPDM E/R connector E121 and ABS actuator and electric unit (control unit) connector E125.



CAN Communication Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect the following module and control unit connectors and check terminals for deformation, disconnection, looseness or damage.
 - ECM
 - TCM (Transmission control module)
 - Display unit
 - BCM (Body control module)
 - Unified meter and A/C amp.
 - Driver seat control unit
 - ABS actuator and electric unit (control unit)
 - IPDM E/R (Intelligent power distribution module engine room)

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR SHORTED CIRCUITS

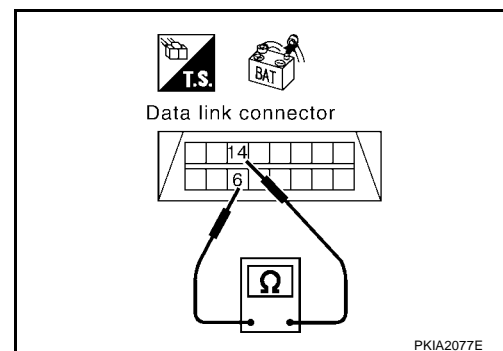
With all module and control unit connectors disconnected, check continuity between data link connector M22 terminals 6 (L) and 14 (Y).

6 (L) - 14 (Y)

: Continuity should not exist.

OK or NG

- OK >> GO TO 3.
 NG >> Repair the harness.



3. CHECK HARNESS FOR SHORT TO GROUND

Check continuity between data link connector M22 terminals 6 (L), 14 (Y) and ground.

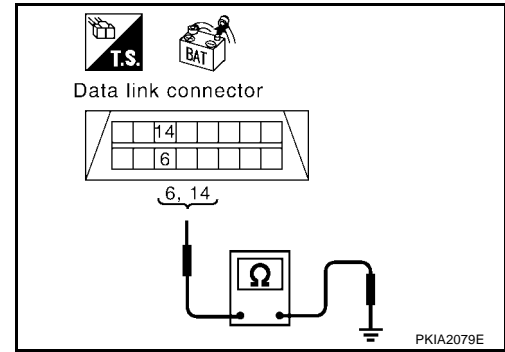
6 (L) - Ground : Continuity should not exist.

14 (Y) - Ground : Continuity should not exist.

OK or NG

OK >> Check ECM and IPDM E/R. Refer to [LAN-198, "Component Inspection"](#).

NG >> Repair the harness.



EKS00A50

IPDM E/R Ignition Relay Circuit Check

Check the following. If no problem is found, replace the IPDM E/R.

- IPDM E/R power supply circuit. Refer to [PG-24, "IPDM E/R Power/Ground Circuit Inspection"](#).
- Ignition power supply circuit. Refer to [PG-11, "IGNITION POWER SUPPLY — IGNITION SW. IN ON AND/OR START"](#).

Component Inspection

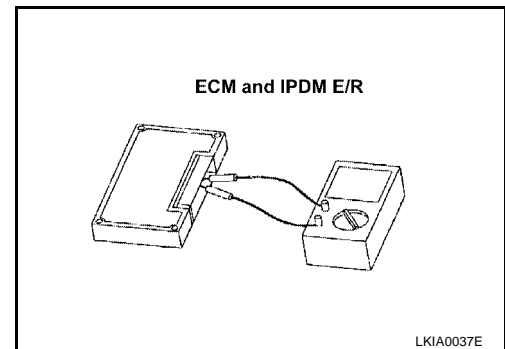
ECM/IPDM E/R INTERNAL CIRCUIT INSPECTION

- Remove ECM and IPDM E/R from vehicle.
- Check resistance between ECM terminals 94 and 86.

94 - 86 : Approx. 108 - 132Ω
- Check resistance between IPDM E/R terminals 48 and 49.

48 - 49 : Approx. 108 - 132Ω

EKS00A51



LKIA0037E

CAN SYSTEM (TYPE 9)

PFP:23710

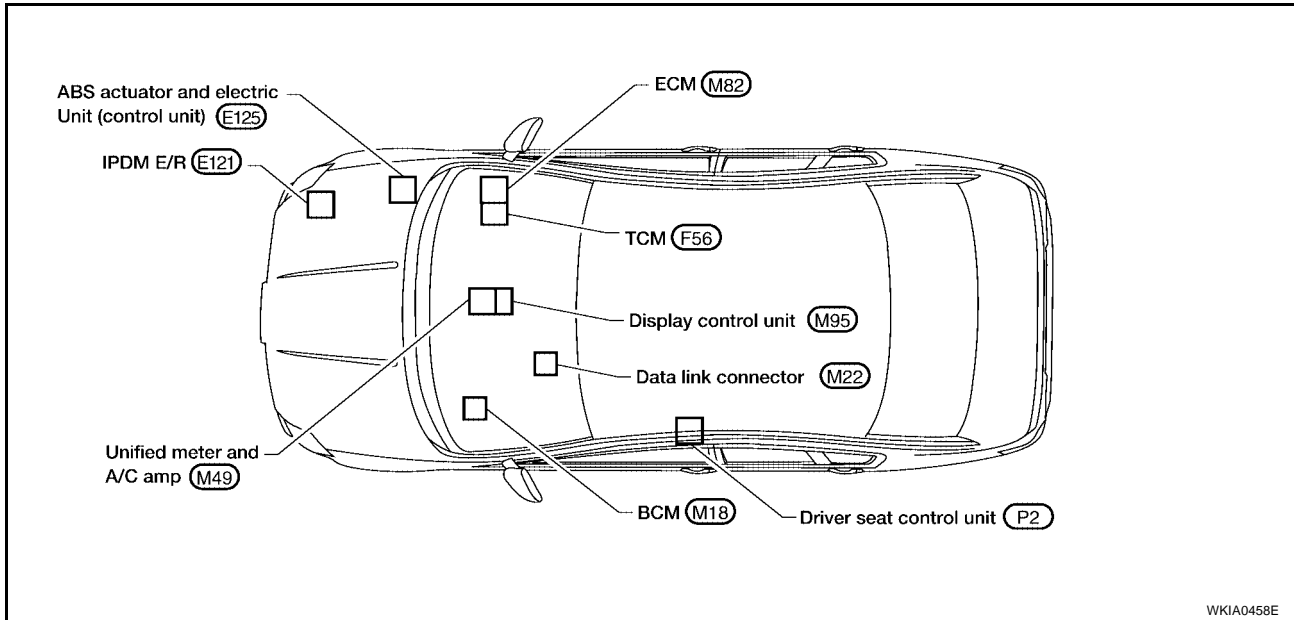
System Description

EKS00A3Y

CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H line, CAN L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

Component Parts and Harness Connector Location

EKS00A3Z



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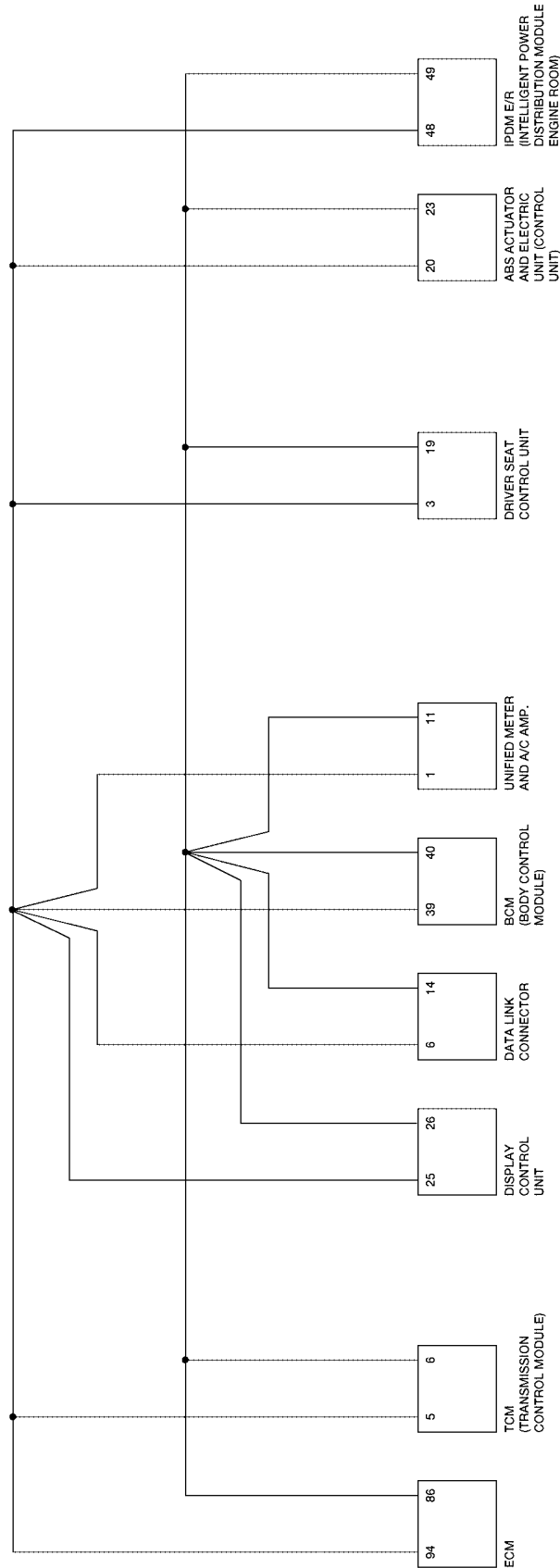
LAN

CAN SYSTEM (TYPE 9)

[CAN]

Schematic

EKS00A40



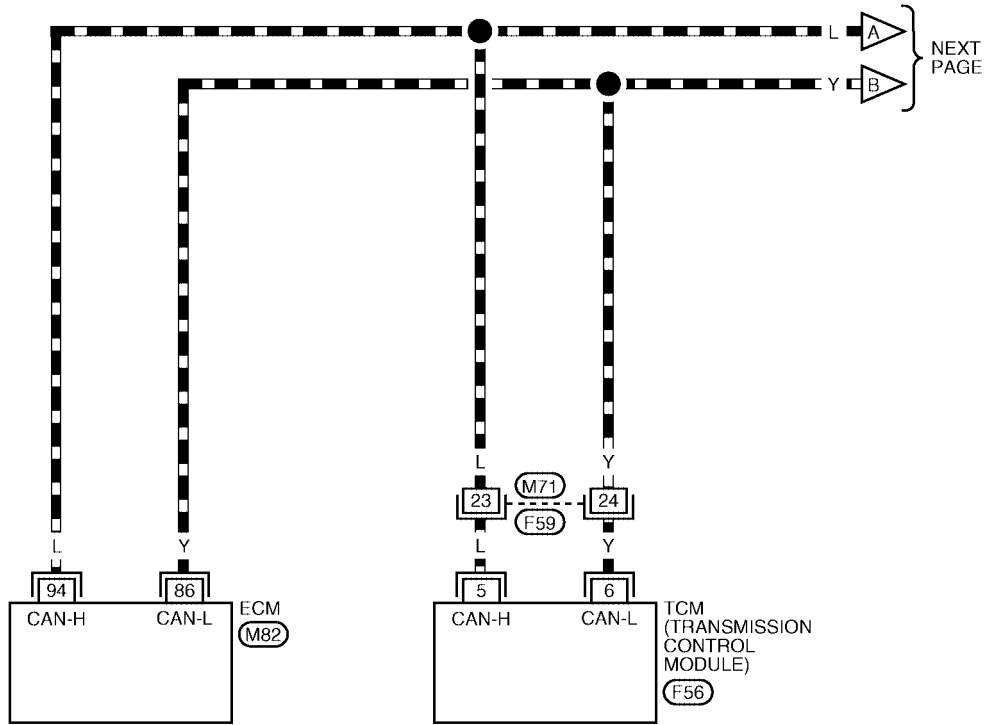
WKWA0433E

Wiring Diagram - CAN -

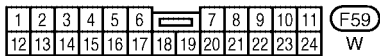
EKS00A41

LAN-CAN-25

— : DATA LINE



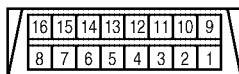
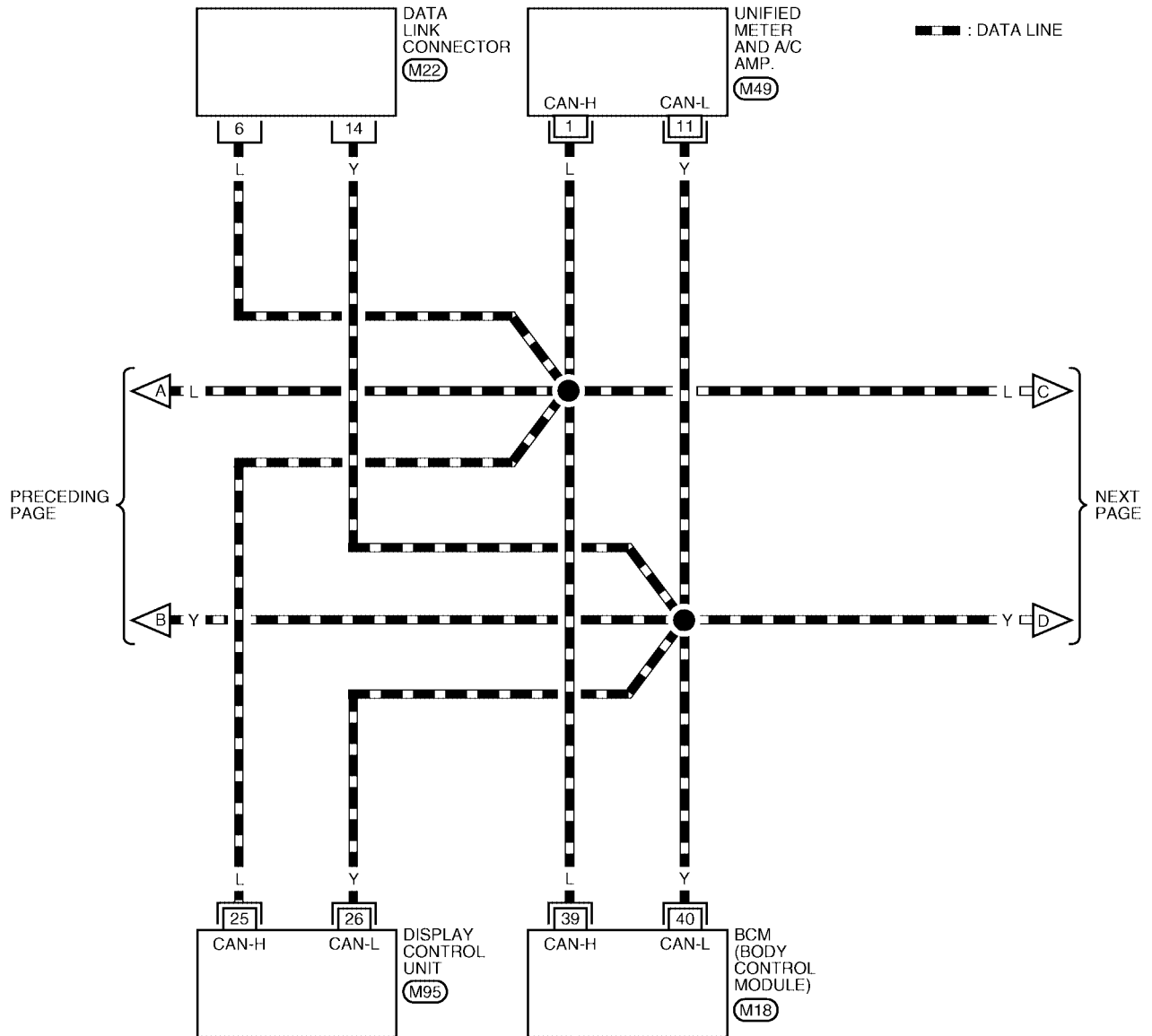
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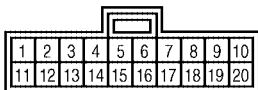
REFER TO THE FOLLOWING.
(M82), (F56) - ELECTRICAL
UNITS

BKWA0222E

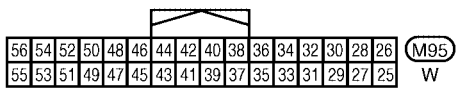
LAN-CAN-26



(M22)
W



(M49)
GR



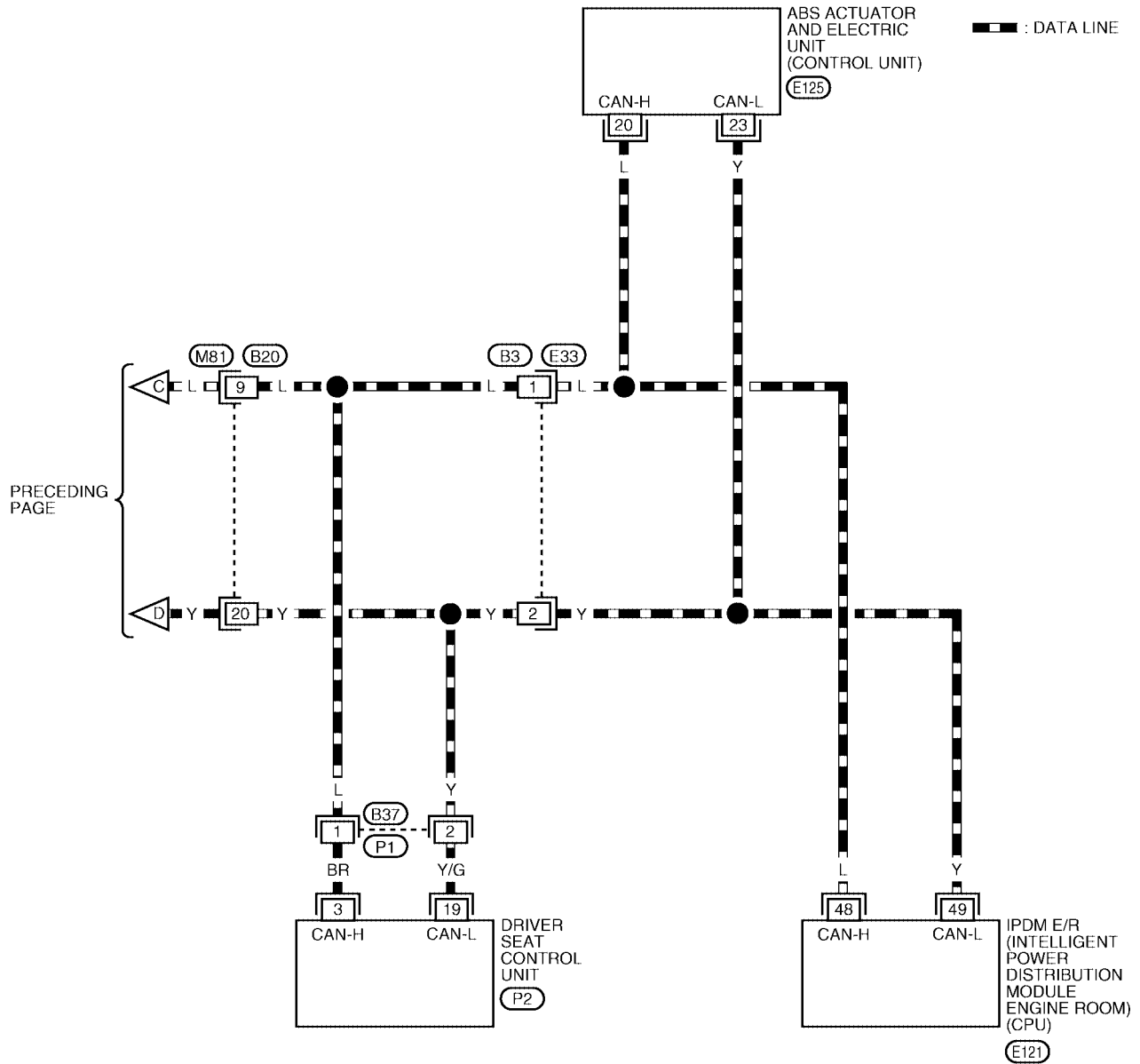
(M95)
W

REFER TO THE FOLLOWING.

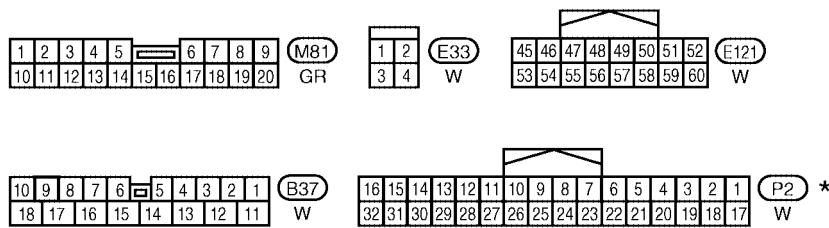
(M18) - ELECTRICAL UNITS

BKWA0223E

LAN-CAN-27



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REFER TO THE FOLLOWING.
E125 - ELECTRICAL UNITS

*: THIS CONNECTOR IS NOT SHOWN IN "HARNES LAYOUT" OF PG SECTION.

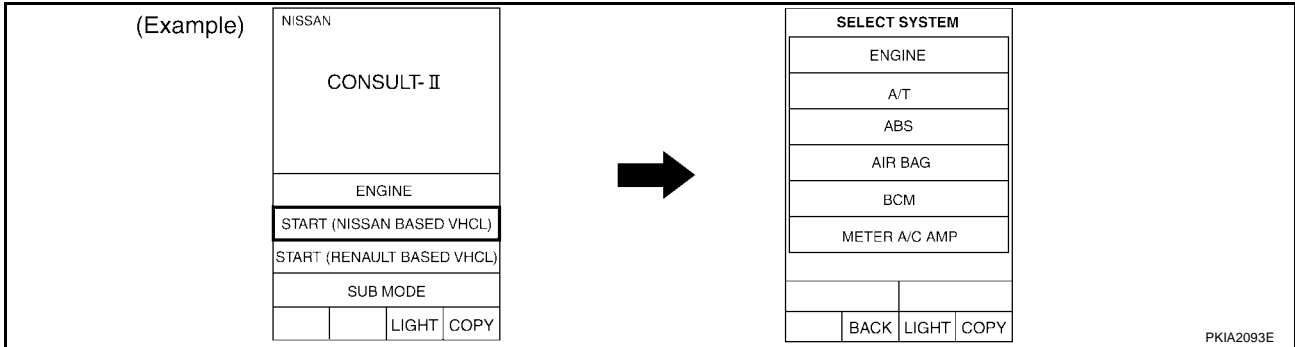
CAN SYSTEM (TYPE 9)

[CAN]

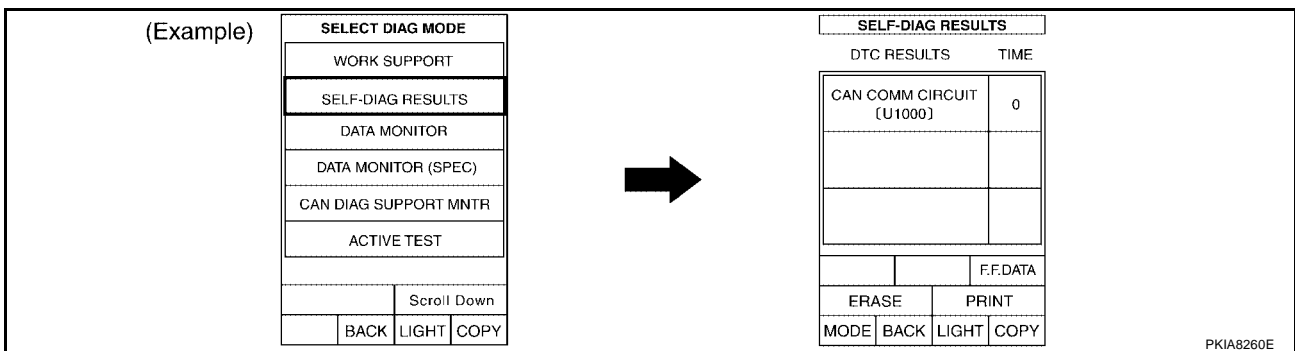
EKS00A42

Work Flow

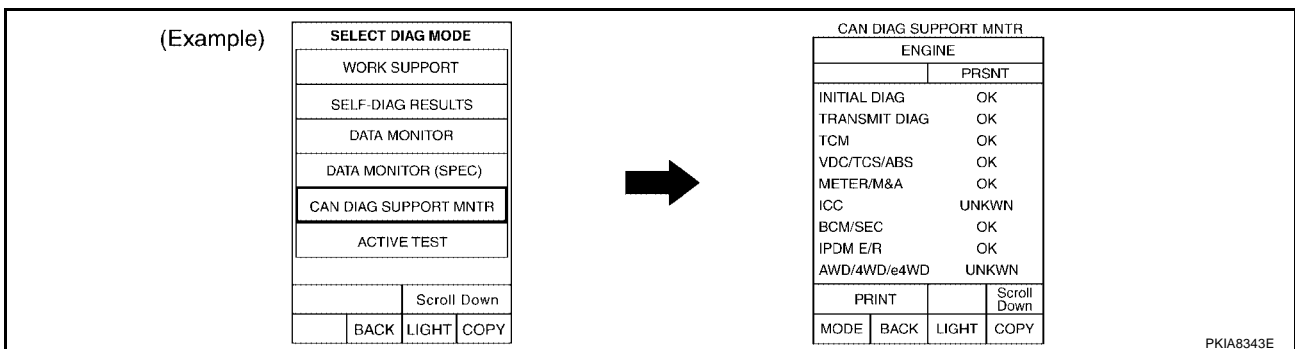
- When there are no indications of "TRANSMISSION", "METER A/C AMP", "BCM", "IPDM E/R" or "AUTO DRIVE POS." on "SELECT SYSTEM" display of CONSULT-II, print the "SELECT SYSTEM".



- Print all the data of "SELF-DIAG RESULTS" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Print all the data of "CAN DIAG SUPPORT MNTR" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Based on the indications of "SELECT SYSTEM" and the results of "CAN DIAG SUPPORT MNTR", put marks onto the items with "No indication", "NG", or "UNKWN" in the check sheet table.

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR									
	Initial diagnosis	Transmit diagnosis	ECM	TCM	DISPLAY	Receive diagnosis	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-	UNKWN
TRANSMISSION	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	-
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-

BKIA0059E

NOTE:

- If "NG" is displayed on "INITIAL DIAG (Initial diagnosis)" as "CAN DIAG SUPPORT MNTR" for the diagnosed control unit, replace the control unit.

CAN SYSTEM (TYPE 9)

[CAN]

-
- The “CAN DIAG SUPPORT MNTR” items which are not in check sheet table are not related to diagnostic procedure on service manual.
Therefore, it is not necessary to check the status of the “CAN DIAG SUPPORT MNTR” items not in check sheet table.
5. Check CAN communication line of the navigation system.
 6. Mark the “NG” or “UNKWN” item of the check sheet table from the result of CAN DIAG SUPPORT MONITOR check sheet.
NOTE:
If “NG” is displayed on “CAN COMM” as “CAN DIAG SUPPORT MNTR” for the diagnosed control unit, replace the control unit.
 7. According to the Check Sheet Results, start inspection.

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CAN SYSTEM (TYPE 9)

[CAN]

Check sheet table

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

Symptoms:

Attach copy of
SELECT SYSTEM

Attach copy of
SELECT SYSTEM

Attach copy of
display unit
CAN DIAG MONITOR
check sheet

BKIA0079E

CAN SYSTEM (TYPE 9)

[CAN]

Attach copy of ENGINE SELF-DIAG RESULTS	Attach copy of TRANSMISSION SELF-DIAG RESULTS	Attach copy of BCM SELF-DIAG RESULTS	Attach copy of METER A/C AMP SELF-DIAG RESULTS
Attach copy of ABS SELF-DIAG RESULTS	Attach copy of AUTO DRIVE POS. SELF-DIAG RESULTS	Attach copy of IPDM E/R SELF-DIAG RESULTS	
Attach copy of ENGINE CAN DIAG SUPPORT MNTR	Attach copy of TRANSMISSION CAN DIAG SUPPORT MNTR	Attach copy of BCM CAN DIAG SUPPORT MNTR	Attach copy of METER A/C AMP CAN DIAG SUPPORT MNTR
Attach copy of ABS CAN DIAG SUPPORT MNTR	Attach copy of AUTO DRIVE POS. CAN DIAG SUPPORT MNTR	Attach copy of IPDM E/R CAN DIAG SUPPORT MNTR	

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BKIA0085E

CAN SYSTEM (TYPE 9)

[CAN]

CHECK SHEET RESULTS

Case 1

Replace ECM.

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				Receive diagnosis						
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	✓	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2440E

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				Receive diagnosis						
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION		NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2441E

Case 2

Replace TCM.

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				Receive diagnosis						
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION		✓	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2442E

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				Receive diagnosis						
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION		NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2443E

CAN SYSTEM (TYPE 9)

[CAN]

Case 3

Replace display control unit.

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	IPDM E/R
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION		NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2444E

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	IPDM E/R
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION		NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2445E

Case 4

Replace BCM.

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	IPDM E/R
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION		NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2446E

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	IPDM E/R
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION		NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2447E

CAN SYSTEM (TYPE 9)

[CAN]

Case 5

Replace unified meter and A/C amp.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION		NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2448E

Case 6

Replace driver seat control unit.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION		NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS	No indication	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2449E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION		NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2450E

Case 7

Replace ABS actuator and electric unit (control unit).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION		NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		UNKWN	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2451E

CAN SYSTEM (TYPE 9)

[CAN]

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				ECM	TCM	DISPLAY	Receive diagnosis METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION		NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2452E

Case 8

Replace IPDM E/R.

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				ECM	TCM	DISPLAY	Receive diagnosis METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION		NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2453E

Case 9

Check harness between TCM and data link connector. Refer to [LAN-216](#).

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				ECM	TCM	DISPLAY	Receive diagnosis METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION		NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2454E

Case 10

Check harness between data link connector and driver seat control unit. Refer to [LAN-216](#).

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				ECM	TCM	DISPLAY	Receive diagnosis METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	✓	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2455E

CAN SYSTEM (TYPE 9)

[CAN]

Case 11

Check harness between driver seat control unit and ABS actuator and electric unit (control unit). Refer to [LAN-217](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION		NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2456E

Case 12

Check ECM circuit. Refer to [LAN-217](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE		NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN
TRANSMISSION		NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2457E

Case 13

Check TCM circuit. Refer to [LAN-218](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE		NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN
TRANSMISSION		NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2458E

Case 14

Check display control unit circuit. Refer to [LAN-218](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION		NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2459E

CAN SYSTEM (TYPE 9)

[CAN]

Case 15

Check data link connector circuit. Refer to [LAN-219](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION		NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	✓ No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	✓ No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	✓ No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	✓ No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2460E

Case 16

Check BCM circuit. Refer to [LAN-219](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION		NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	✓ No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	✓ No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
AUTO DRIVE POS.	✓ No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	✓ No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2461E

Case 17

Check unified meter and A/C amp. circuit. Refer to [LAN-220](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION		NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	✓ No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	✓ No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
AUTO DRIVE POS.	✓ No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	✓ No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2462E

Case 18

Check driver seat control unit circuit. Refer to [LAN-220](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION		NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	✓ No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	✓ No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
AUTO DRIVE POS.	✓ No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	✓ No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2463E

CAN SYSTEM (TYPE 9)

[CAN]

Case 19

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-221](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	ECM	TCM	DISPLAY	Receive diagnosis METER/M&A	BCM/SEC	VDC/CS/ABS	IPDM E/R
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION		NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2464E

Case 20

Check IPDM E/R circuit. Refer to [LAN-221](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	ECM	TCM	DISPLAY	Receive diagnosis METER/M&A	BCM/SEC	VDC/CS/ABS	IPDM E/R
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION		NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2465E

Case 21

Check CAN communication circuit. Refer to [LAN-222](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	ECM	TCM	DISPLAY	Receive diagnosis METER/M&A	BCM/SEC	VDC/CS/ABS	IPDM E/R
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION		NG	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	-	UNKWN
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2466E

Case 22

Check IPDM E/R Ignition relay circuit. Refer to [LAN-223](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	ECM	TCM	DISPLAY	Receive diagnosis METER/M&A	BCM/SEC	VDC/CS/ABS	IPDM E/R
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION		NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2467E

CAN SYSTEM (TYPE 9)

[CAN]

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT R								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	ME-THR/ M&A	BCM/SEC	VDC/CS/ ABS	
ENGINE		NG	UNKWN	-	✓	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION		NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication		UNKWN	UNKWN	✓	UNKWN	-	UNKWN	✓	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	✓	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2468E

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LAN

Circuit Check Between TCM and Data Link Connector

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

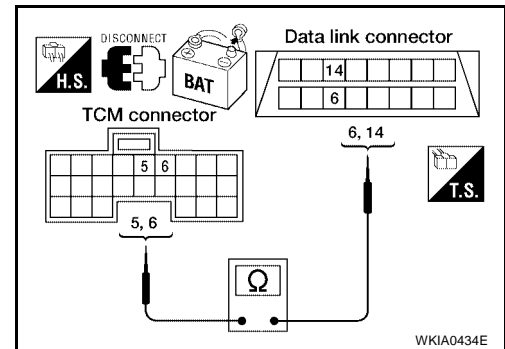
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between TCM connector F56 terminals 5 (L), 6 (Y) and data link connector M22 terminals 6 (L), 14 (Y).

- 5 (L) - 6 (L) : Continuity should exist.**
6 (Y) - 14 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-204, "Work Flow"](#).
 NG >> Repair harness.



Circuit Check Between Driver Seat Control Unit and Data Link Connector

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

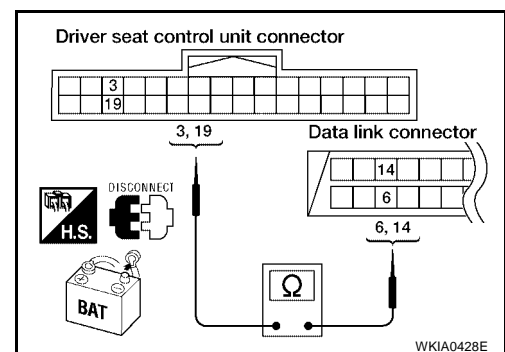
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and data link connector M22 terminals 6 (L), 14 (Y).

- 3 (BR) - 6 (L) : Continuity should exist.**
19 (Y/G) - 14 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-204](#).
 NG >> Repair harness.



Circuit Check Between Driver Seat Control Unit and ABS Actuator and Electric Unit (Control Unit)

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2, ABS actuator and electric unit (control unit) connector E125 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

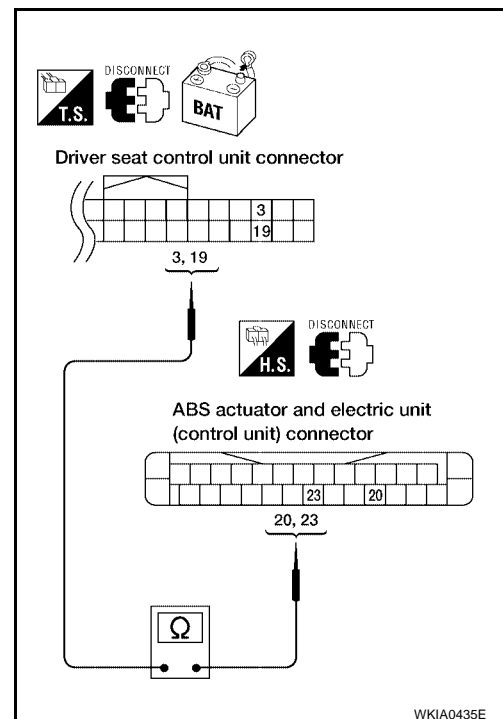
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and ABS actuator and electric unit (control unit) connector E125 terminals 20 (L), 23 (Y).

- 3 (BR) - 20 (L) : Continuity should exist.**
19 (Y/G) - 23 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-204](#).
 NG >> Repair harness.



ECM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

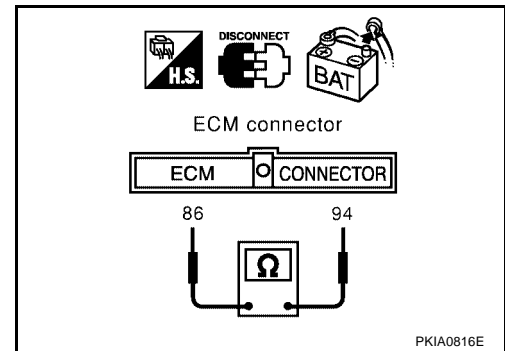
Check resistance between ECM connector M82 terminal 94 (L) and terminal 86 (Y).

94 (L) - 86 (Y)

: Approx. 108 - 132Ω

OK or NG

- OK >> Replace ECM.
 NG >> Repair harness between ECM connector M82 and TCM connector F56.



EKS00A47

TCM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

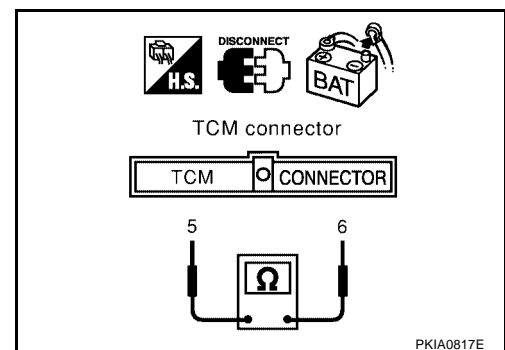
Check resistance between TCM connector F56 terminal 5 (L) and terminal 6 (Y).

5 (L) - 6 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace TCM.
 NG >> Repair harness between TCM connector F56 and ECM connector M82.



EKS00A48

Display Control Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect display control unit connector M95.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

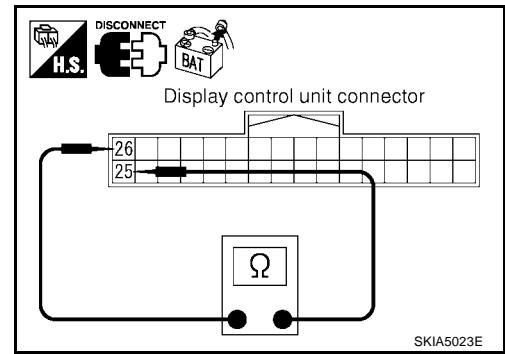
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between display control unit connector M95 terminal 25 (L) and terminal 26 (Y).

25 (L) - 26 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace display control unit.
 NG >> Repair harness between display control unit connector M95 and data link connector M22.



Data Link Connector Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Check data link connector M22 terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

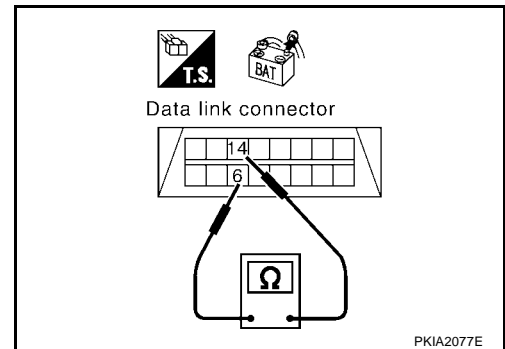
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector M22 terminal 6 (L) and terminal 14 (Y).

6 (L) - 14 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-204](#).
 NG >> Repair harness between data link connector M22 and BCM connector M18.



BCM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect BCM connector M18.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

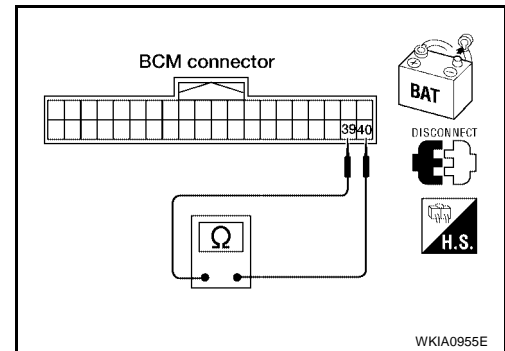
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between BCM connector M18 terminal 39 (L) and terminal 40 (Y).

39 (L) - 40 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace BCM.
 NG >> Repair harness between BCM connector M18 and data link connector M22.



EKS00A4B

Unified Meter and A/C Amp. Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect unified meter and A/C amp. connector M49.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

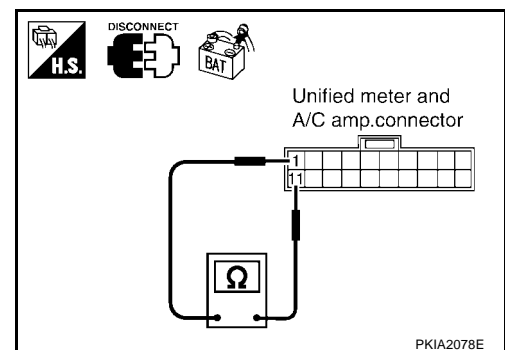
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between unified meter and A/C amp. connector M49 terminal 1 (L) and terminal 11 (Y).

1 (L) - 11 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace unified meter and A/C amp.
 NG >> Repair harness between unified meter and A/C amp. connector M49 and data link connector M22.



EKS00A4C

Driver Seat Control Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

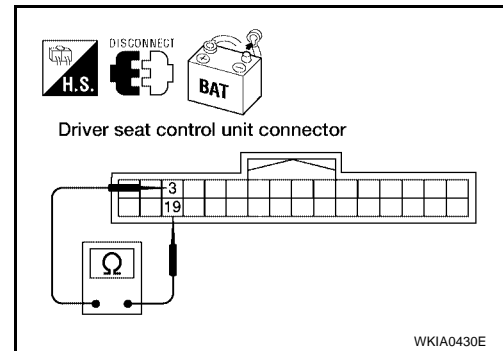
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between driver seat control unit connector P2 terminal 3 (BR) and terminal 19 (Y/G).

3 (BR) - 19 (Y/G) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace driver seat control unit.
 NG >> Repair harness between driver seat control unit connector P2 and data link connector M22.



ABS Actuator and Electric Unit (Control Unit) Circuit Check

EKS00A4D

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ABS actuator and electric unit (control unit) connector E125.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

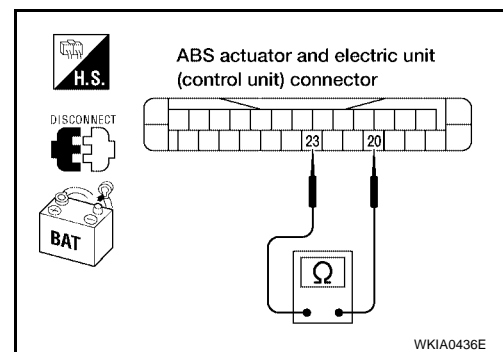
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between ABS actuator and electric unit (control unit) connector E125 terminal 20 (L) and terminal 23 (Y).

20 (L) - 23 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace ABS actuator and electric unit (control unit).
 NG >> Repair harness between ABS actuator and electric unit (control unit) connector E125 and IPDM E/R connector E121.



IPDM E/R Circuit Check

EKS00A4E

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect IPDM E/R connector E121.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

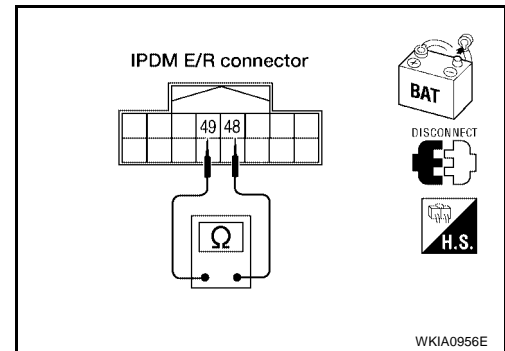
Check resistance between IPDM E/R connector E121 terminal 48 (L) and terminal 49 (Y).

48 (L) - 49 (Y)

: Approx. 108 - 132Ω

OK or NG

- OK >> Replace IPDM E/R.
 NG >> Repair harness between IPDM E/R connector E121 and ABS actuator and electric unit (control unit) connector E125.



EKS00A4F

CAN Communication Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect the following module and control unit connectors and check terminals for deformation, disconnection, looseness or damage.
 - ECM
 - TCM (Transmission control module)
 - Display control unit
 - BCM (Body control module)
 - Unified meter and A/C amp.
 - Driver seat control unit
 - ABS actuator and electric unit (control unit)
 - IPDM E/R (Intelligent power distribution module engine room)

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR SHORTED CIRCUITS

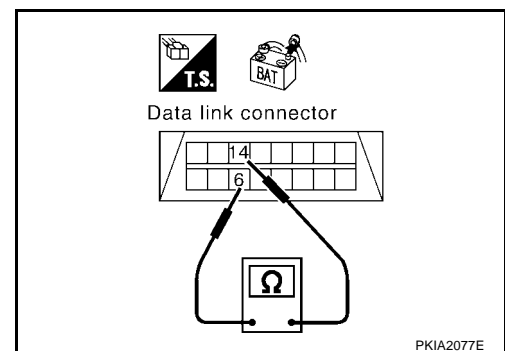
With all module and control unit connectors disconnected, check continuity between data link connector M22 terminals 6 (L) and 14 (Y).

6 (L) - 14 (Y)

: Continuity should not exist.

OK or NG

- OK >> GO TO 3.
 NG >> Repair the harness.



3. CHECK HARNESS FOR SHORT TO GROUND

Check continuity between data link connector M22 terminals 6 (L), 14 (Y) and ground.

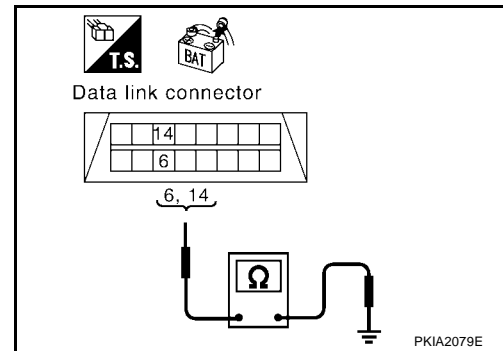
6 (L) - Ground : **Continuity should not exist.**

14 (Y) - Ground : **Continuity should not exist.**

OK or NG

OK >> Check ECM and IPDM E/R. Refer to [LAN-223, "Component Inspection"](#).

NG >> Repair the harness.



EKS00A4G

IPDM E/R Ignition Relay Circuit Check

Check the following. If no problem is found, replace the IPDM E/R.

- IPDM E/R power supply circuit. Refer to [PG-24, "IPDM E/R Power/Ground Circuit Inspection"](#).
- Ignition power supply circuit. Refer to [PG-11, "IGNITION POWER SUPPLY — IGNITION SW. IN ON AND/OR START"](#).

Component Inspection

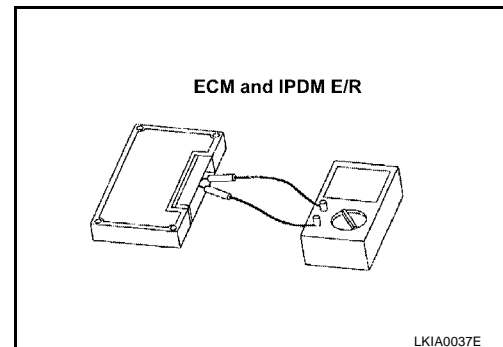
ECM/IPDM E/R INTERNAL CIRCUIT INSPECTION

- Remove ECM and IPDM E/R from vehicle.
- Check resistance between ECM terminals 94 and 86.

94 - 86 : **Approx. 108 - 132Ω**
- Check resistance between IPDM E/R terminals 48 and 49.

48 - 49 : **Approx. 108 - 132Ω**

EKS00A4H



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CAN SYSTEM (TYPE 10)

PFP:23710

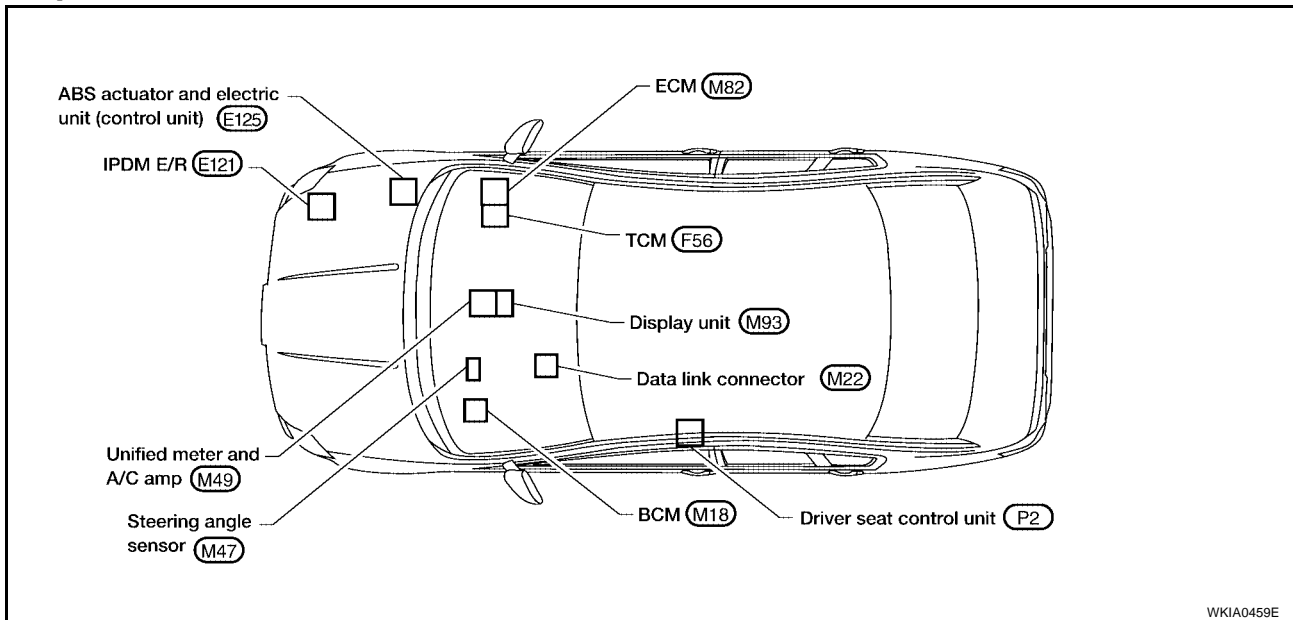
System Description

EKS00A3D

CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H line, CAN L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

Component Parts and Harness Connector Location

EKS00A3E

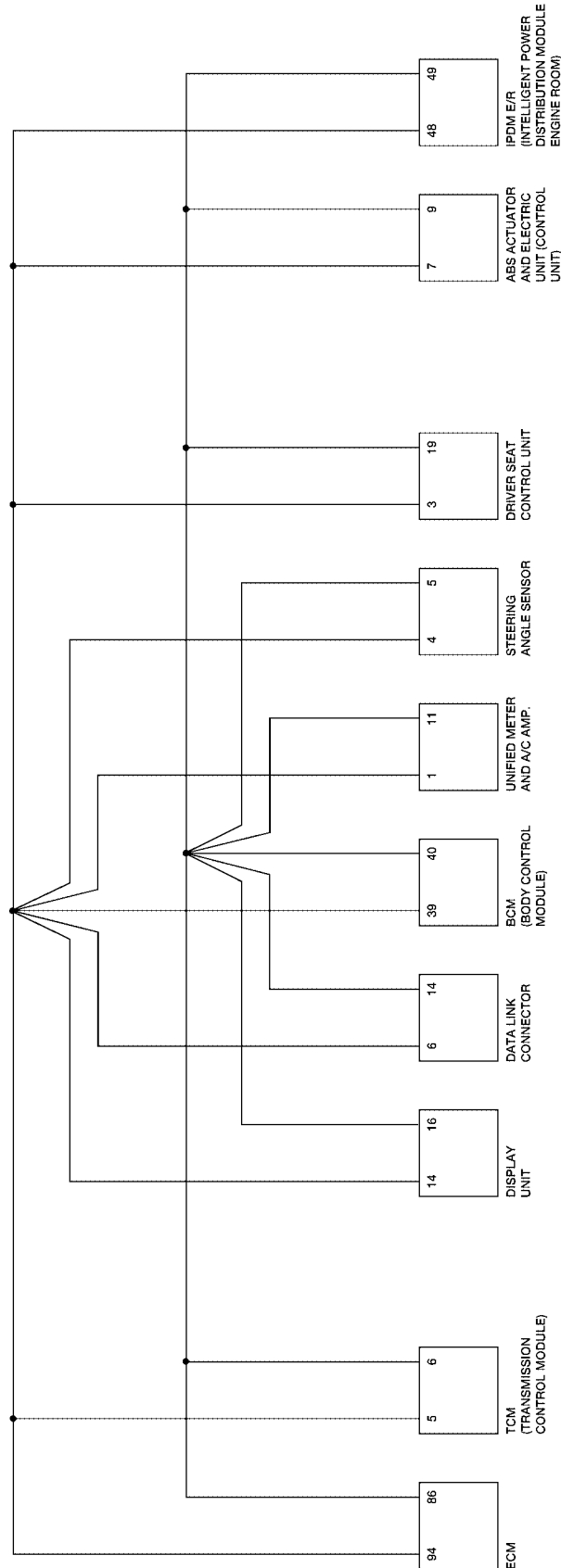


CAN SYSTEM (TYPE 10)

[CAN]

Schematic

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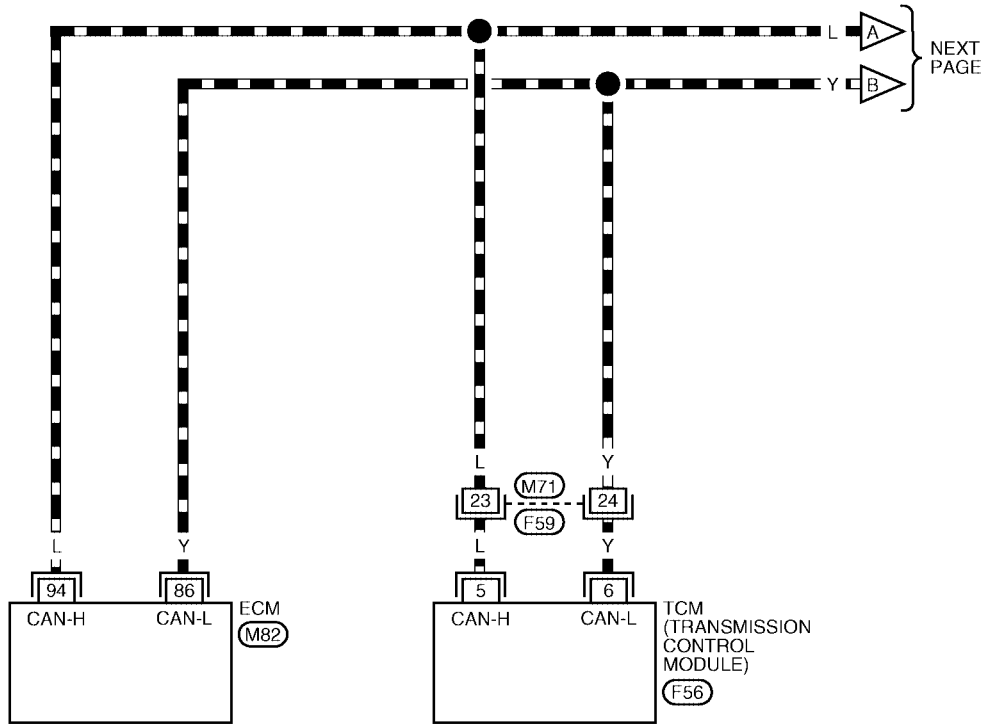
WKWA0429E

Wiring Diagram - CAN -

EKS00A3G

LAN-CAN-28

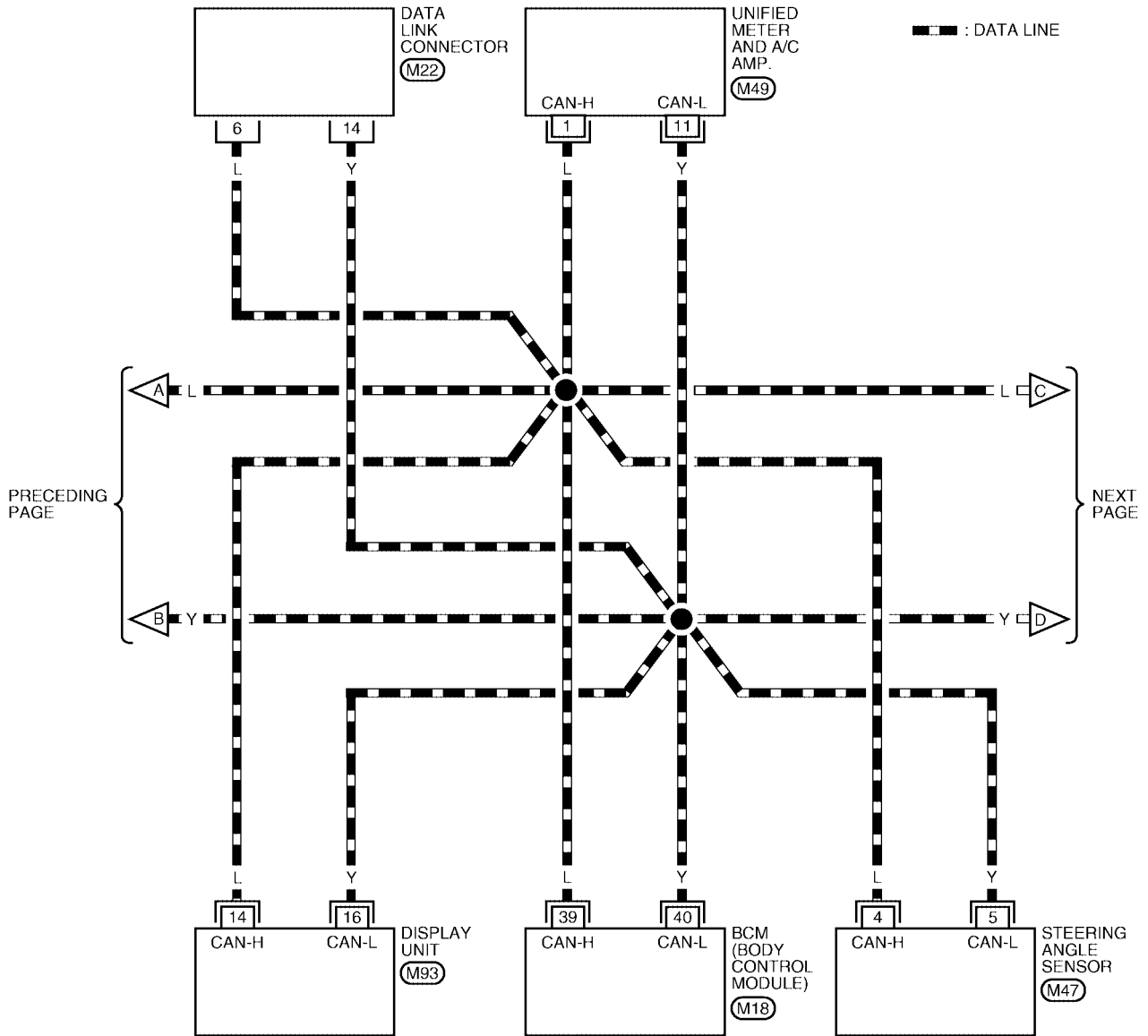
— : DATA LINE



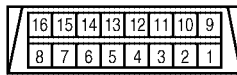
1	2	3	4	5	6	7	8	9	10	11	F59		
12	13	14	15	16	17	18	19	20	21	22	23	24	W

REFER TO THE FOLLOWING.
 (M82), (F56) - ELECTRICAL
 UNITS

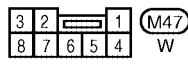
BKWA0225E



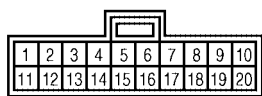
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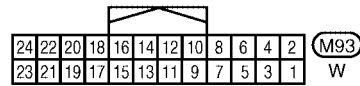
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(M47)
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(M49)
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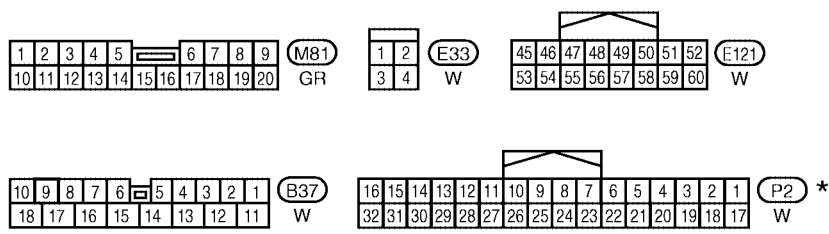
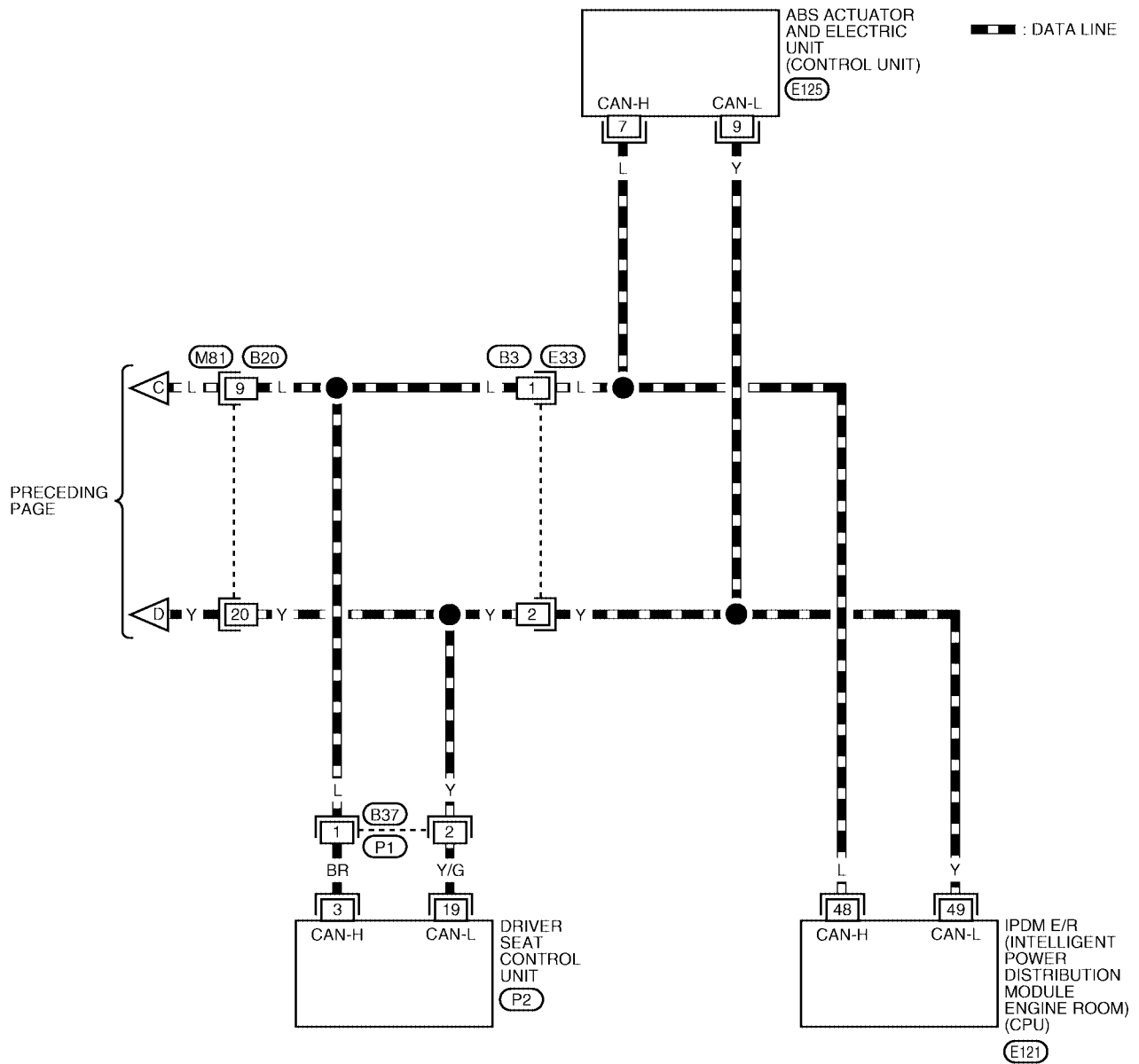


(M93)
W

REFER TO THE FOLLOWING.
(M18) - ELECTRICAL UNITS

BKWA0226E

LAN-CAN-30

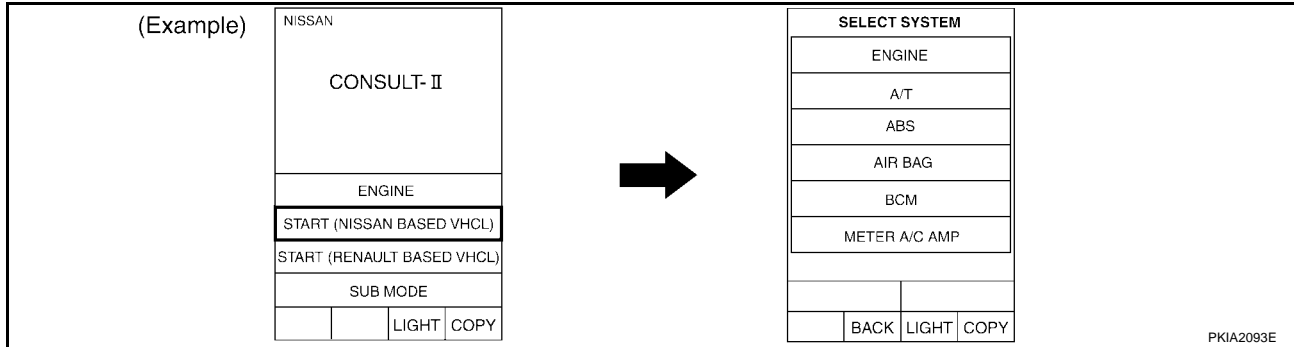


REFER TO THE FOLLOWING.
E125 - ELECTRICAL UNITS

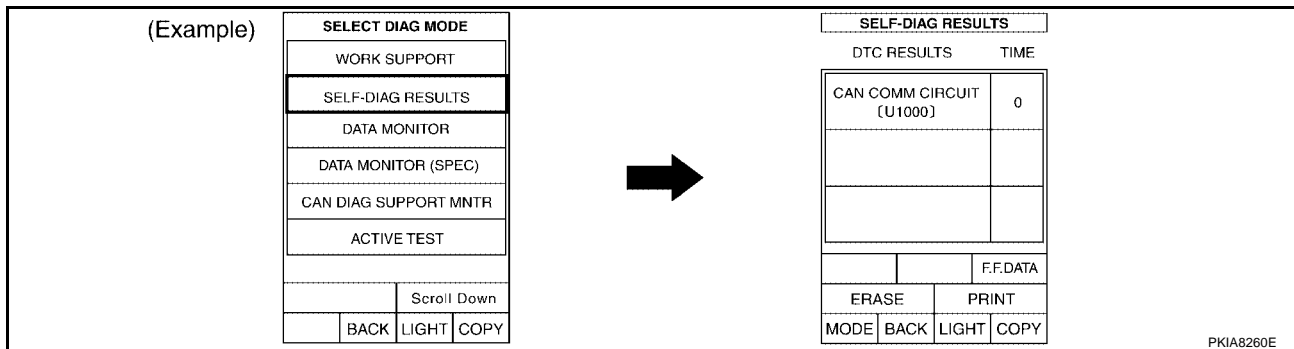
*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT" OF PG SECTION.

Work Flow

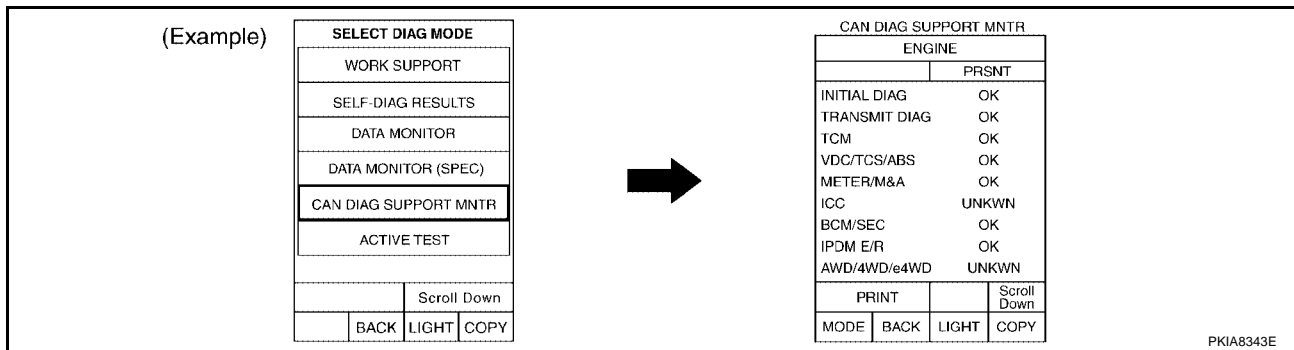
- When there are no indications of "TRANSMISSION", "METER A/C AMP", "BCM", "IPDM E/R" or "AUTO DRIVE POS." on "SELECT SYSTEM" display of CONSULT-II, print the "SELECT SYSTEM".



- Print all the data of "SELF-DIAG RESULTS" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Print all the data of "CAN DIAG SUPPORT MNTR" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Based on the indications of "SELECT SYSTEM" and the results of "CAN DIAG SUPPORT MNTR", put marks onto the items with "No indication", "NG", or "UNKWN" in the check sheet table.

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR									
	Initial diagnosis	Transmit diagnosis	ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	NC	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NC	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	-	CAN 2	-	CAN 7
METER A/C AMP	No indication	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NC	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	UNKWN	-	UNKWN	-	-
ABS	-	NC	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
IPDM E/R	No indication	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN

BKIA0060E

NOTE:

- If "NG" is displayed on "INITIAL DIAG (Initial diagnosis)" as "CAN DIAG SUPPORT MNTR" for the diagnosed control unit, replace the control unit.

CAN SYSTEM (TYPE 10)

[CAN]

-
- The “CAN DIAG SUPPORT MNTR” items which are not in check sheet table are not related to diagnostic procedure on service manual.
Therefore, it is not necessary to check the status of the “CAN DIAG SUPPORT MNTR” items not in check sheet table.
5. Mark the “NG” or “UNKWN” item of the check sheet table from the result of CAN DIAG SUPPORT MONITOR check sheet.

NOTE:

If “NG” is displayed on “CAN COMM” as “CAN DIAG SUPPORT MNTR” for the diagnosed control unit, replace the control unit.

6. According to the Check Sheet Results, start inspection.

CAN SYSTEM (TYPE 10)

[CAN]

CHECK SHEET

Check sheet table

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	-	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-

Symptoms:

Attach copy of
SELECT SYSTEM

Attach copy of
SELECT SYSTEM

Attach copy of
display unit
CAN DIAG MONITOR
check sheet

BKIA0080E

A
B
C
D
E
F
G
H
I
J
L
M

LAN

CAN SYSTEM (TYPE 10)

[CAN]

Attach copy of ENGINE SELF-DIAG RESULTS	Attach copy of TRANSMISSION SELF-DIAG RESULTS	Attach copy of BCM SELF-DIAG RESULTS	Attach copy of METER A/C AMP SELF-DIAG RESULTS
Attach copy of ABS SELF-DIAG RESULTS	Attach copy of AUTO DRIVE POS. SELF-DIAG RESULTS	Attach copy of IPDM E/R SELF-DIAG RESULTS	
Attach copy of ENGINE CAN DIAG SUPPORT MNTR	Attach copy of TRANSMISSION CAN DIAG SUPPORT MNTR	Attach copy of BCM CAN DIAG SUPPORT MNTR	Attach copy of METER A/C AMP CAN DIAG SUPPORT MNTR
Attach copy of ABS CAN DIAG SUPPORT MNTR	Attach copy of AUTO DRIVE POS. CAN DIAG SUPPORT MNTR	Attach copy of IPDM E/R CAN DIAG SUPPORT MNTR	

BKIA0085E

CAN SYSTEM (TYPE 10)

[CAN]

CHECK SHEET RESULTS

Case 1

Replace ECM.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR										
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	TCM	DISPLAY	METER/ M&A	STRG	BCM/SEC	VDC/TCS/ ABS	IPDM E/R	
ENGINE	-	✓	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	UNKWN	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	-	CAN 2	-	CAN 7	-
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	UNKWN	-
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-	-

WKIA2469E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR										
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	TCM	DISPLAY	METER/ M&A	STRG	BCM/SEC	VDC/TCS/ ABS	IPDM E/R	
ENGINE	-	✓	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN	UNKWN	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	-	CAN 2	-	CAN 7	-
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	UNKWN	-
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-	-

WKIA2470E

Case 2

Replace TCM.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR										
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	TCM	DISPLAY	METER/ M&A	STRG	BCM/SEC	VDC/TCS/ ABS	IPDM E/R	
ENGINE	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	-	✓	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN	UNKWN	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	-	CAN 2	-	CAN 7	-
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	UNKWN	-
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-	-

WKIA2471E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR										
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	TCM	DISPLAY	METER/ M&A	STRG	BCM/SEC	VDC/TCS/ ABS	IPDM E/R	
ENGINE	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN	UNKWN	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	-	CAN 2	-	CAN 7	-
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	UNKWN	-
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-	-

WKIA2472E

CAN SYSTEM (TYPE 10)

[CAN]

Case 3

Replace display unit.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/HCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	-	CAN 2	-	CAN 7
METER A/C AMP	No indication	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-
IPDM E/R	No indication	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2473E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/HCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN
Display unit	-	CAN COMM	CAN 1	✓3	-	-	✓5	-	✓2	-	✓7
METER A/C AMP	No indication	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-
IPDM E/R	No indication	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2474E

Case 4

Replace BCM.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/HCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	-	CAN 2	-	CAN 7
METER A/C AMP	No indication	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-
IPDM E/R	No indication	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2475E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/HCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	-	CAN 2	-	CAN 7
METER A/C AMP	No indication	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN
BCM	No indication	✓	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-
IPDM E/R	No indication	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2476E

CAN SYSTEM (TYPE 10)

[CAN]

Case 5

Replace unified meter and A/C amp.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/HCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN		UNKWN		UNKWN		UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN			UNKWN			UNKWN	
Display unit	-	CAN COMM	CAN 1	CAN 3			CAN 5		CAN 2		CAN 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN			UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN					UNKWN	UNKWN	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN		UNKWN		UNKWN		UNKWN		
ABS	-	NG	UNKWN	UNKWN	UNKWN			UNKWN			
IPDM E/R	No indication		UNKWN	UNKWN					UNKWN		

WKIA2477E

Case 6

Replace driver seat control unit.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/HCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN		UNKWN		UNKWN		UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN			UNKWN			UNKWN	
Display unit	-	CAN COMM	CAN 1	CAN 3			CAN 5		CAN 2		CAN 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN			UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN							UNKWN
AUTO DRIVE POS	No indication	✓	UNKWN		UNKWN		UNKWN		UNKWN		
ABS	-	NG	UNKWN	UNKWN	UNKWN			UNKWN			
IPDM E/R	No indication		UNKWN	UNKWN					UNKWN		

WKIA2478E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/HCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN		UNKWN		UNKWN		UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN			UNKWN			UNKWN	
Display unit	-	CAN COMM	CAN 1	CAN 3			CAN 5		CAN 2		CAN 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN			UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN							UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN		UNKWN		UNKWN		UNKWN		
ABS	-	NG	UNKWN	UNKWN	UNKWN			UNKWN			
IPDM E/R	No indication		UNKWN	UNKWN					UNKWN		

WKIA2479E

Case 7

Replace ABS actuator and electric unit (control unit).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/HCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN		UNKWN		UNKWN		UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN			UNKWN			UNKWN	
Display unit	-	CAN COMM	CAN 1	CAN 3			CAN 5		CAN 2		CAN 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN			UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN							UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN		UNKWN		UNKWN		UNKWN		
ABS	-	✓	UNKWN	UNKWN	UNKWN			UNKWN			
IPDM E/R	No indication		UNKWN	UNKWN					UNKWN		

WKIA2480E

CAN SYSTEM (TYPE 10)

[CAN]

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/ M&A	STRG	BCM/SEC	VDC/CS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	-	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-

WKIA2481E

Case 8

Replace IPDM E/R.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/ M&A	STRG	BCM/SEC	VDC/CS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	-	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-

WKIA2482E

Case 9

Check harness between TCM and data link connector. Refer to [LAN-241](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/ M&A	STRG	BCM/SEC	VDC/CS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	-	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-

WKIA2483E

Case 10

Check harness between data link connector and driver seat control unit. Refer to [LAN-241](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/ M&A	STRG	BCM/SEC	VDC/CS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	-	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-

WKIA2484E

CAN SYSTEM (TYPE 10)

[CAN]

Case 11

Check harness between driver seat control unit and ABS actuator and electric unit (control unit). Refer to [LAN-242](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R										
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/HCS/ABS	IPDM E/R	
ENGINE	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	-	CAN 2	-	CAN 7	-	-
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-	-
IPDM E/R	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN

WKIA2485E

Case 12

Check ECM circuit. Refer to [LAN-242](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R										
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/HCS/ABS	IPDM E/R	
ENGINE	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	-	CAN 2	-	CAN 7	-	-
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-	-
IPDM E/R	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN

WKIA2486E

Case 13

Check TCM circuit. Refer to [LAN-243](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R										
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/HCS/ABS	IPDM E/R	
ENGINE	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	-	CAN 2	-	CAN 7	-	-
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-	-
IPDM E/R	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN

WKIA2487E

Case 14

Check display unit circuit. Refer to [LAN-243](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R										
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/HCS/ABS	IPDM E/R	
ENGINE	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
Display unit	-	CAN COMM	✓1	✓3	-	✓5	-	✓2	-	✓7	-	-
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-	-
IPDM E/R	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN

WKIA2488E

Case 15

Check data link connector circuit. Refer to [LAN-244](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR										
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/ICSI/ABS	IPDM E/R	
ENGINE	-	NG	UNKWN		UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN		-	UNKWN	-		UNKWN		
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	-	CAN 2	-	CAN 7	
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN		-	UNKWN	-				UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-	
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-			
IPDM E/R	No indication		UNKWN	UNKWN		-	-	-	UNKWN			

WKIA2489E

Case 16

Check BCM circuit. Refer to [LAN-244](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR										
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/ICSI/ABS	IPDM E/R	
ENGINE	-	NG	UNKWN		UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN		-	UNKWN	-		UNKWN		
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	-	CAN 2	-	CAN 7	
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN		-	UNKWN	-				UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-	
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-			
IPDM E/R	No indication		UNKWN	UNKWN		-	-	-	UNKWN			

WKIA2490E

Case 17

Check unified meter and A/C amp. circuit. Refer to [LAN-245](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR										
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/ICSI/ABS	IPDM E/R	
ENGINE	-	NG	UNKWN		UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN		-	UNKWN	-		UNKWN		
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	-	CAN 2	-	CAN 7	
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN		-	UNKWN	-				UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-	
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-			
IPDM E/R	No indication		UNKWN	UNKWN		-	-	-	UNKWN			

WKIA2491E

Case 18

Check steering angle sensor circuit. Refer to [LAN-245](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR										
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/ICSI/ABS	IPDM E/R	
ENGINE	-	NG	UNKWN		UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN		-	UNKWN	-		UNKWN		
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	-	CAN 2	-	CAN 7	
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN		-	UNKWN	-				UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-	
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-			
IPDM E/R	No indication		UNKWN	UNKWN		-	-	-	UNKWN			

WKIA2492E

Case 19

Check driver seat control unit circuit. Refer to [LAN-246](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/HCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN		UNKWN		UNKWN		UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN			UNKWN			UNKWN	
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	-	CAN 2	-	CAN 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN				UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN			UNKWN				UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN					UNKWN		

WKIA2493E

Case 20

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-246](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/HCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN		UNKWN		UNKWN		UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN			UNKWN			UNKWN	
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	-	CAN 2	-	CAN 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN			UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN			UNKWN				UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-		
IPDM E/R	No indication		UNKWN	UNKWN					UNKWN		

WKIA2494E

Case 21

Check IPDM E/R circuit. Refer to [LAN-247](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/HCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN		UNKWN		UNKWN		UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN			UNKWN			UNKWN	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	-	CAN 2	-	CAN 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN			UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN			UNKWN				UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-		
IPDM E/R	No indication		UNKWN	UNKWN					UNKWN		

WKIA2495E

Case 22

Check CAN communication circuit. Refer to [LAN-248](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/HCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN		UNKWN		UNKWN		UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN			UNKWN			UNKWN	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	-	CAN 2	-	CAN 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN			UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN			UNKWN				UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-		
IPDM E/R	No indication		UNKWN	UNKWN					UNKWN		

WKIA2496E

CAN SYSTEM (TYPE 10)

[CAN]

Case 23

Check IPDM E/R Ignition relay circuit. Refer to [LAN-248](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/ M&A	STRG	BCM/SEC	VDC/ESC/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN		UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN		-	UNKWN	-		UNKWN	
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	-	CAN 2	-	CAN 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN		-	UNKWN	-	-		UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-		
IPDM E/R	No indication		UNKWN	UNKWN		-	-	-	UNKWN		

WKIA2497E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/ M&A	STRG	BCM/SEC	VDC/ESC/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN		UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN		-	UNKWN	-		UNKWN	
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	-	CAN 2	-	CAN 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN		-	UNKWN	-	-		UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-		
IPDM E/R	No indication		UNKWN	UNKWN		-	-	-	UNKWN		

WKIA2498E

Circuit Check Between TCM and Data Link Connector

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
- NG >> Repair or replace as necessary.

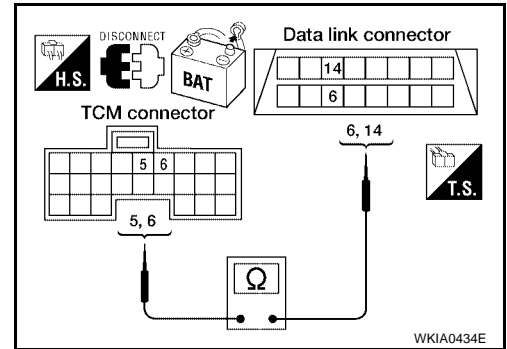
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between TCM connector F56 terminals 5 (L), 6 (Y) and data link connector M22 terminals 6 (L), 14 (Y).

- 5 (L) - 6 (L) : Continuity should exist.
- 6 (Y) - 14 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-229, "Work Flow"](#).
- NG >> Repair harness.



Circuit Check Between Driver Seat Control Unit and Data Link Connector

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
- NG >> Repair or replace as necessary.

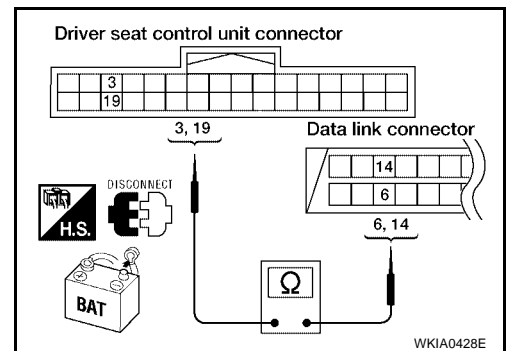
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and data link connector M22 terminals 6 (L), 14 (Y).

- 3 (BR) - 6 (L) : Continuity should exist.
- 19 (Y/G) - 14 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-229](#).
- NG >> Repair harness.



Circuit Check Between Driver Seat Control Unit and ABS Actuator and Electric Unit (Control Unit)

EKS00A3K

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2, ABS actuator and electric unit (control unit) connector E125 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

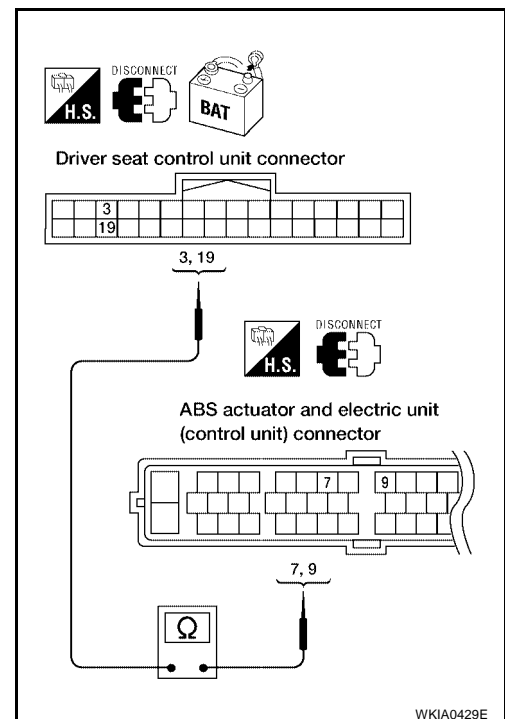
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and ABS actuator and electric unit (control unit) connector E125 terminals 7 (L), 9 (Y).

- 3 (BR) - 7 (L) : Continuity should exist.**
19 (Y/G) - 9 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-229](#).
 NG >> Repair harness.



EKS00A3L

ECM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

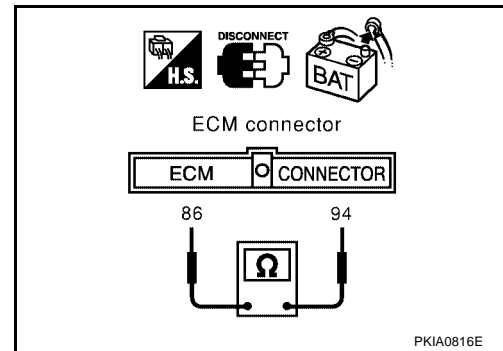
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between ECM connector M82 terminal 94 (L) and terminal 86 (Y).

94 (L) - 86 (Y) : Approx. 108 - 132Ω

OK or NG

- OK >> Replace ECM.
 NG >> Repair harness between ECM connector M82 and TCM connector F56.



EKS00A3M

TCM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

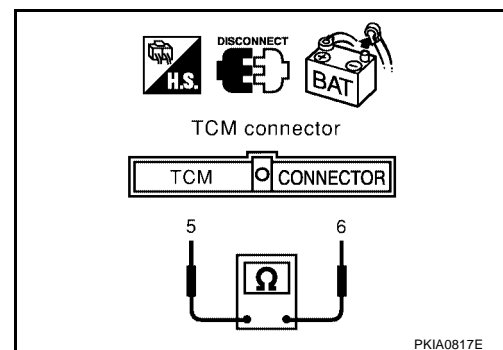
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between TCM connector F56 terminal 5 (L) and terminal 6 (Y).

5 (L) - 6 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace TCM.
 NG >> Repair harness between TCM connector F56 and ECM connector M82.



EKS00A3N

Display Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect display unit connector M93.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

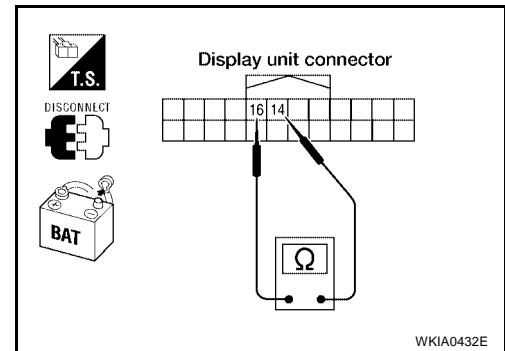
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between display unit connector M93 terminal 14 (L) and terminal 16 (Y).

14 (L) - 16 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace display unit.
 NG >> Repair harness between display unit connector M93 and data link connector M22.



Data Link Connector Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Check data link connector M22 terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

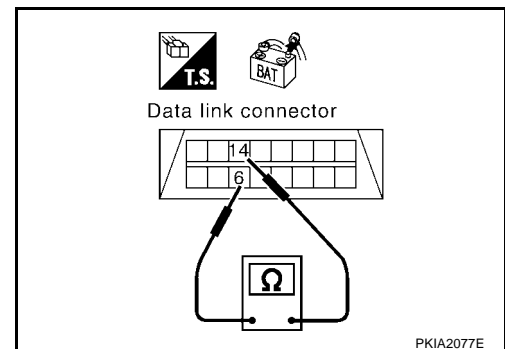
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector M22 terminal 6 (L) and terminal 14 (Y).

6 (L) - 14 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-229](#).
 NG >> Repair harness between data link connector M22 and BCM connector M18.



BCM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect BCM connector M18.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

EKS00A3P

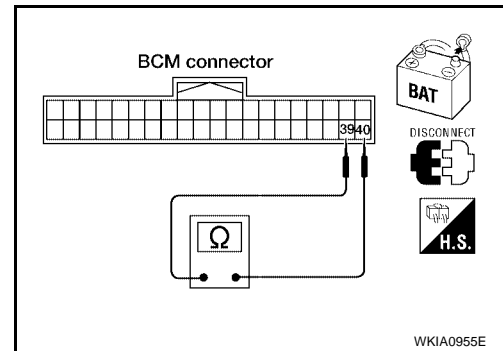
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between BCM connector M18 terminal 39 (L) and terminal 40 (Y).

39 (L) - 40 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace BCM.
 NG >> Repair harness between BCM connector M18 and data link connector M22.



Unified Meter and A/C Amp. Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect unified meter and A/C amp. connector M49.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

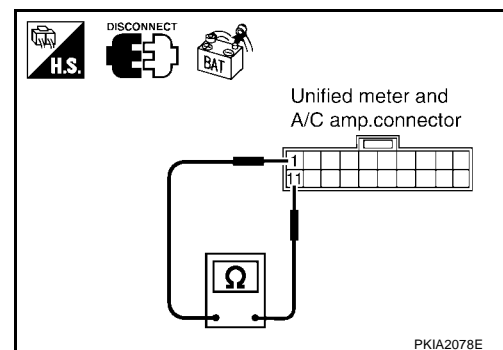
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between unified meter and A/C amp. connector M49 terminal 1 (L) and terminal 11 (Y).

1 (L) - 11 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace unified meter and A/C amp.
 NG >> Repair harness between unified meter and A/C amp. connector M49 and data link connector M22.



Steering Angle Sensor Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect steering angle sensor connector M47.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

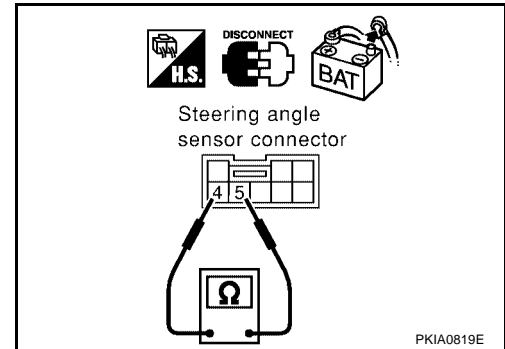
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between steering angle sensor connector M47 terminal 4 (L) and terminal 5 (Y).

4 (L) - 5 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace steering angle sensor.
 NG >> Repair harness between steering angle sensor connector M47 and data link connector M22.



Driver Seat Control Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

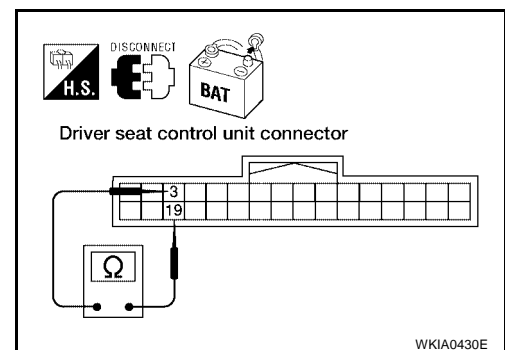
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between driver seat control unit connector P2 terminal 3 (BR) and terminal 19 (Y/G).

3 (BR) - 19 (Y/G) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace driver seat control unit.
 NG >> Repair harness between driver seat control unit connector P2 and data link connector M22.



ABS Actuator and Electric Unit (Control Unit) Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ABS actuator and electric unit (control unit) connector E125.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

EKS00A3T

2. CHECK HARNESS FOR OPEN CIRCUIT

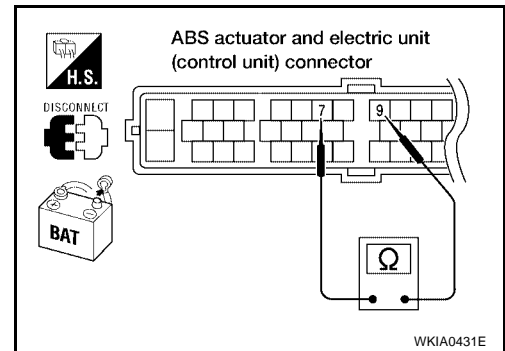
Check resistance between ABS actuator and electric unit (control unit) connector E125 terminal 7 (L) and terminal 9 (Y).

7 (L) - 9 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace ABS actuator and electric unit (control unit).
- NG >> Repair harness between ABS actuator and electric unit (control unit) connector E125 and IPDM E/R connector E121.



EKS00A3U

IPDM E/R Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect IPDM E/R connector E121.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
- NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

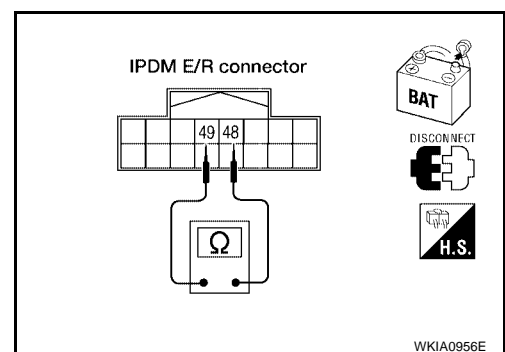
Check resistance between IPDM E/R connector E121 terminal 48 (L) and terminal 49 (Y).

48 (L) - 49 (Y)

: Approx. 108 - 132Ω

OK or NG

- OK >> Replace IPDM E/R.
- NG >> Repair harness between IPDM E/R connector E121 and ABS actuator and electric unit (control unit) connector E125.



CAN Communication Circuit Check**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect the following module and control unit connectors and check terminals for deformation, disconnection, looseness or damage.
 - ECM
 - TCM (Transmission control module)
 - Display unit
 - BCM (Body control module)
 - Unified meter and A/C amp.
 - Steering angle sensor
 - Driver seat control unit
 - ABS actuator and electric unit (control unit)
 - IPDM E/R (Intelligent power distribution module engine room)

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

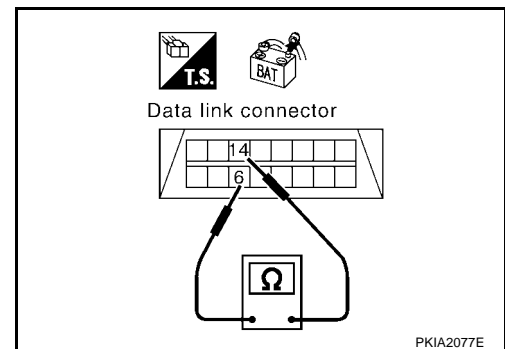
2. CHECK HARNESS FOR SHORTED CIRCUITS

With all module and control unit connectors disconnected, check continuity between data link connector M22 terminals 6 (L) and 14 (Y).

6 (L) - 14 (Y) : Continuity should not exist.

OK or NG

- OK >> GO TO 3.
 NG >> Repair the harness.

**3. CHECK HARNESS FOR SHORT TO GROUND**

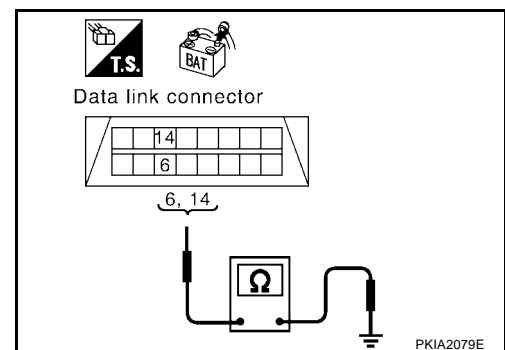
Check continuity between data link connector M22 terminals 6 (L), 14 (Y) and ground.

6 (L) - Ground : Continuity should not exist.

14 (Y) - Ground : Continuity should not exist.

OK or NG

- OK >> Check ECM and IPDM E/R. Refer to [LAN-249, "Component Inspection"](#) .
 NG >> Repair the harness.

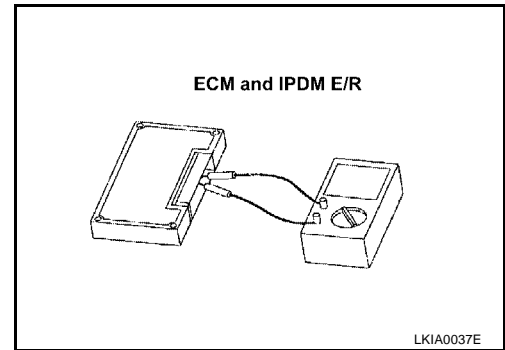
**IPDM E/R Ignition Relay Circuit Check**

Check the following. If no problem is found, replace the IPDM E/R.

- IPDM E/R power supply circuit. Refer to [PG-24, "IPDM E/R Power/Ground Circuit Inspection"](#) .
- Ignition power supply circuit. Refer to [PG-11, "IGNITION POWER SUPPLY — IGNITION SW. IN ON AND/OR START"](#) .

Component Inspection**ECM/IPDM E/R INTERNAL CIRCUIT INSPECTION**

- Remove ECM and IPDM E/R from vehicle.
- Check resistance between ECM terminals 94 and 86.
94 - 86 : Approx. 108 - 132Ω
- Check resistance between IPDM E/R terminals 48 and 49.
48 - 49 : Approx. 108 - 132Ω



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M

CAN SYSTEM (TYPE 11)

PFP:23710

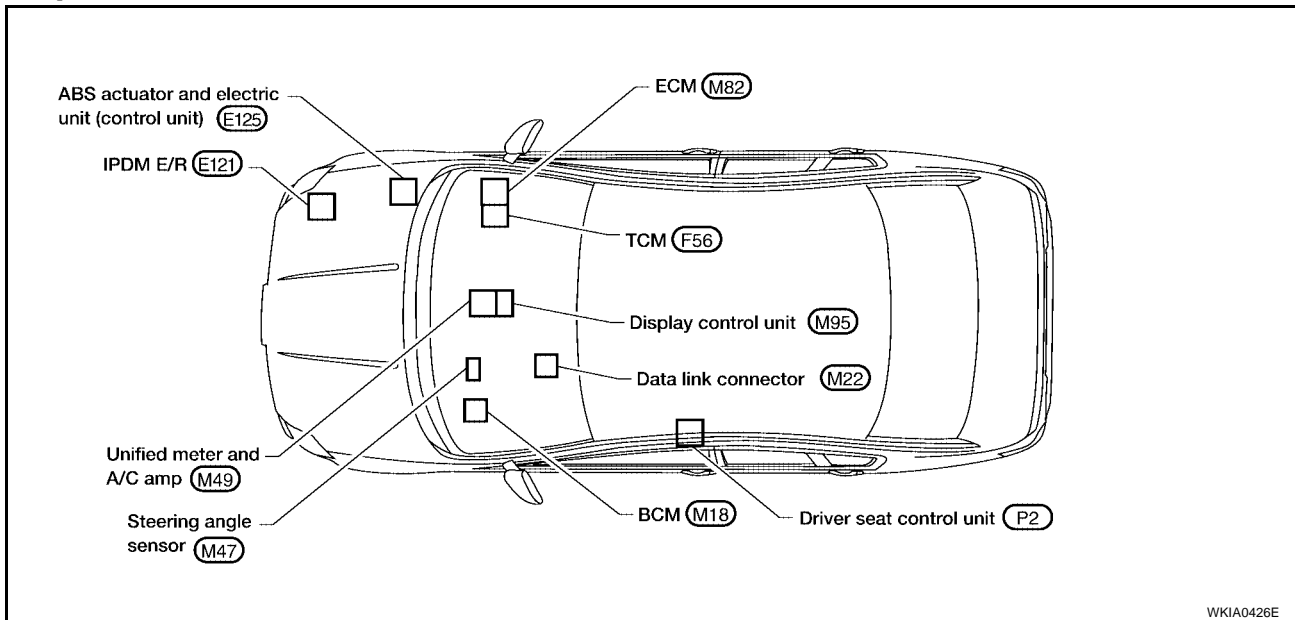
System Description

EKS00A2N

CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H line, CAN L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

Component Parts and Harness Connector Location

EKS00A2O

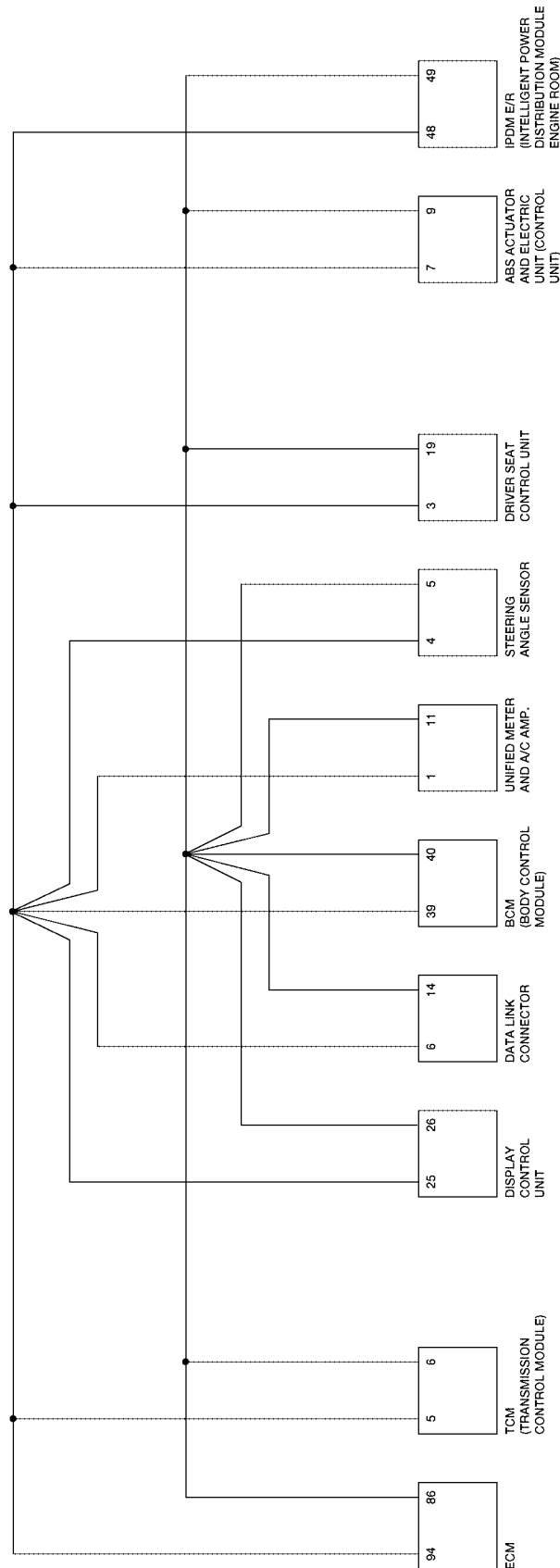


CAN SYSTEM (TYPE 11)

[CAN]

Schematic

EKS00A2P



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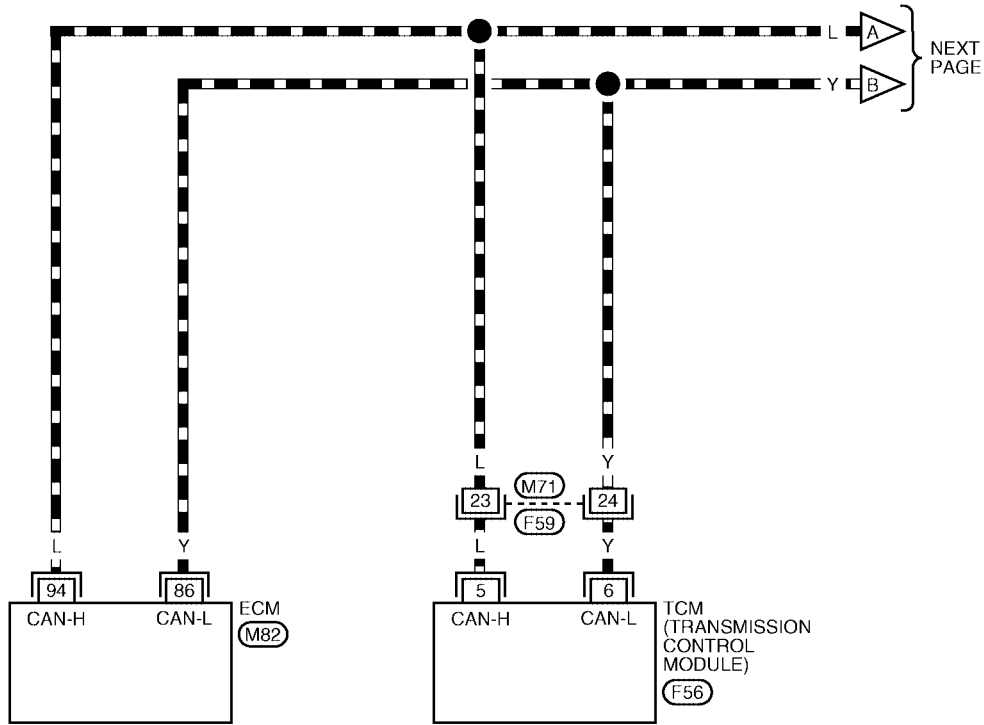
BKWA0353E

Wiring Diagram - CAN -

EKS00A20

LAN-CAN-31

— : DATA LINE

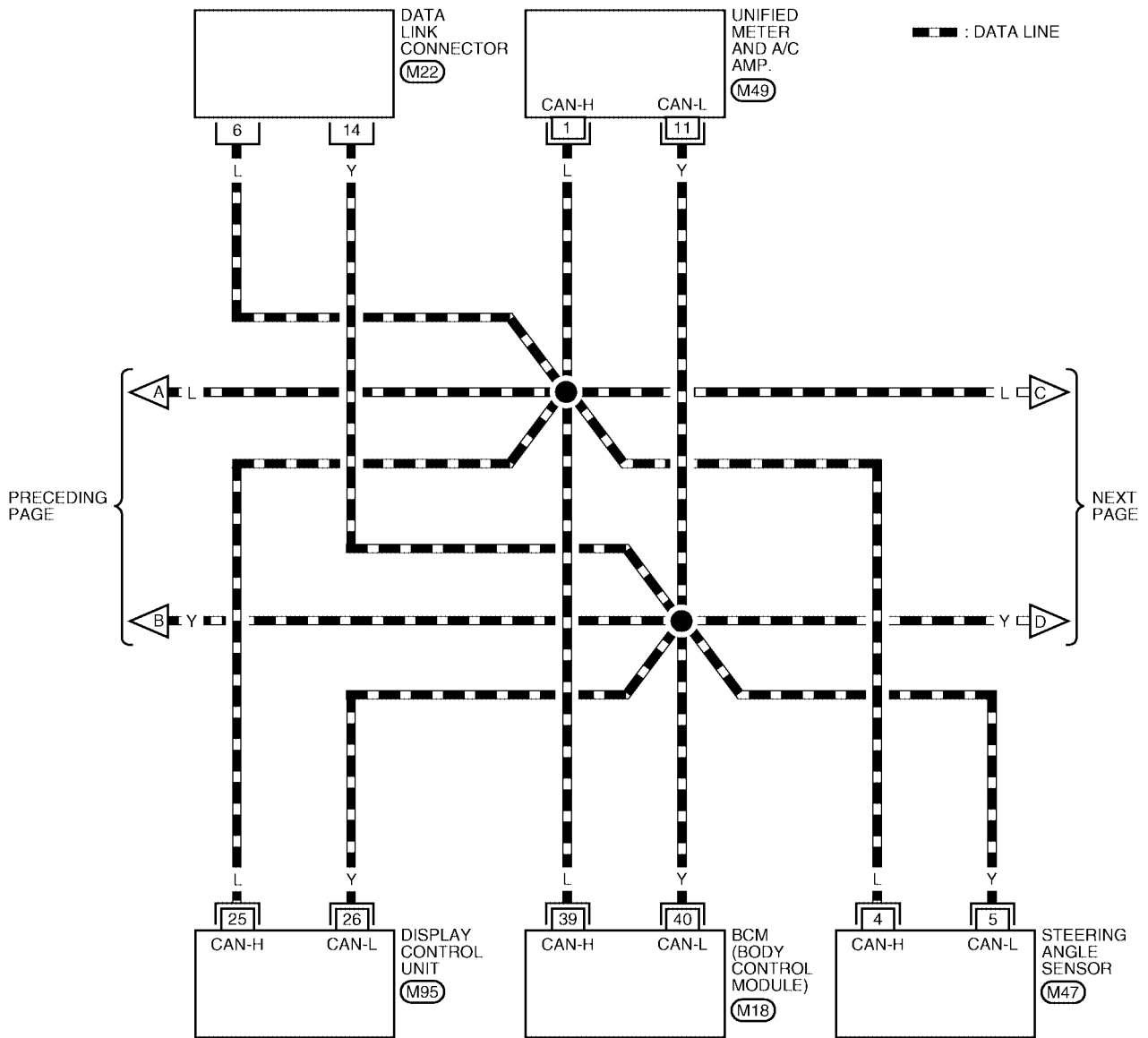


1	2	3	4	5	6	7	8	9	10	11	F59		
12	13	14	15	16	17	18	19	20	21	22	23	24	W

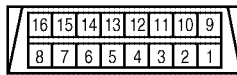
REFER TO THE FOLLOWING.
 (M82), (F56) - ELECTRICAL
 UNITS

BKWA0228E

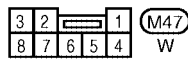
LAN-CAN-32



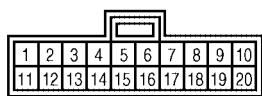
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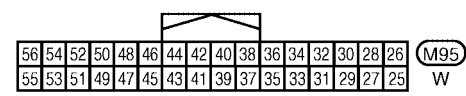
(M22)
W



(M47)
W



(M49)
GR

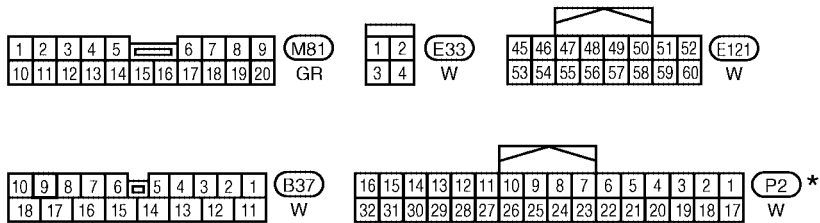
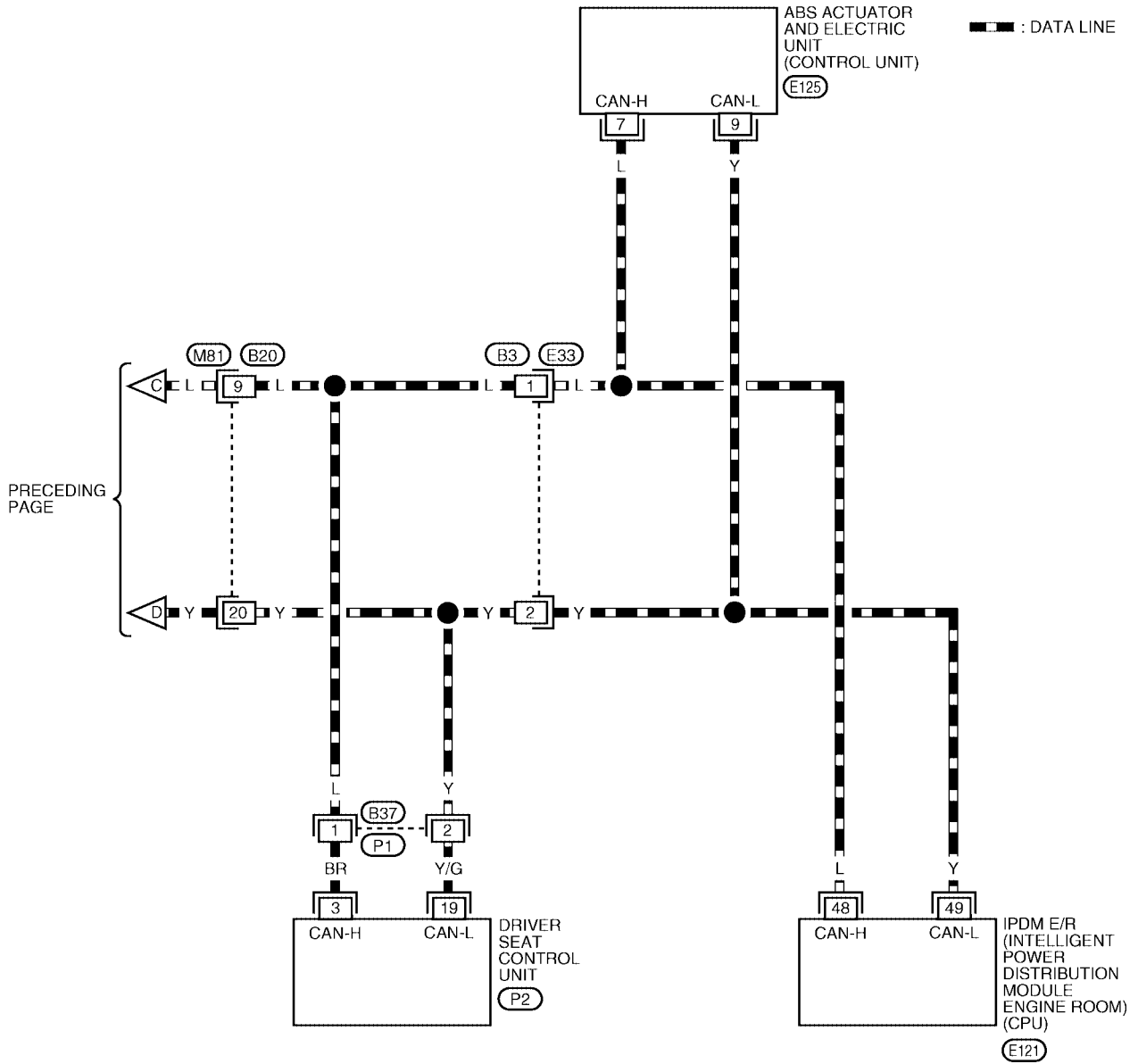


(M95)
W

REFER TO THE FOLLOWING.
(M18) - ELECTRICAL UNITS

BKWA0229E

LAN-CAN-33

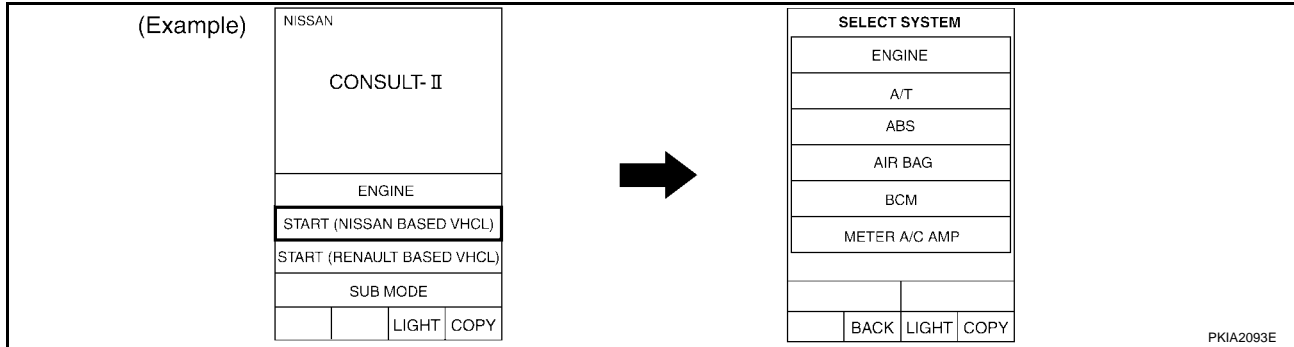


REFER TO THE FOLLOWING.
E125 - ELECTRICAL UNITS

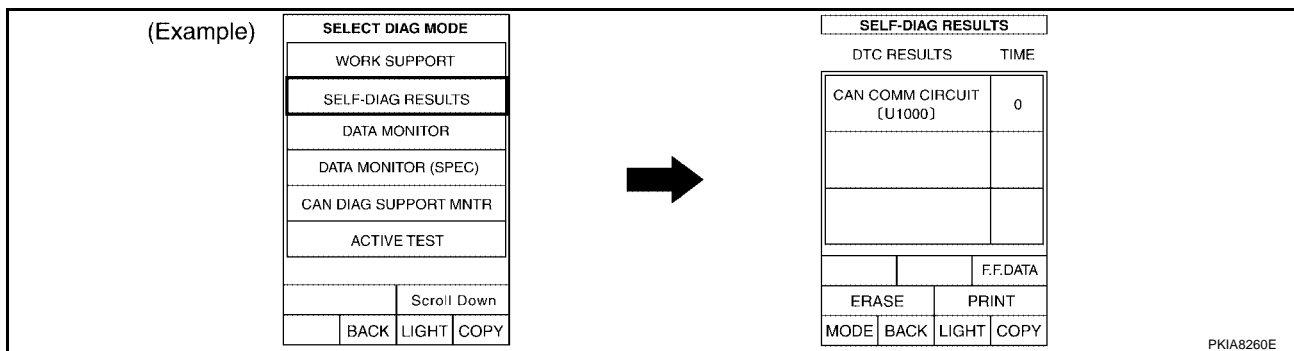
*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT" OF PG SECTION.

Work Flow

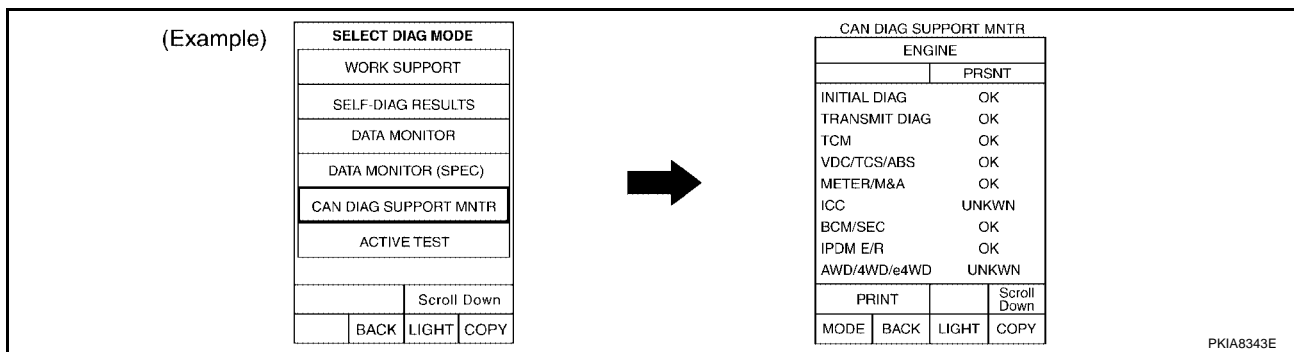
- When there are no indications of "TRANSMISSION", "METER A/C AMP", "BCM", "IPDM E/R" or "AUTO DRIVE POS." on "SELECT SYSTEM" display of CONSULT-II, print the "SELECT SYSTEM".



- Print all the data of "SELF-DIAG RESULTS" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Print all the data of "CAN DIAG SUPPORT MNTR" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Based on the indications of "SELECT SYSTEM" and the results of "CAN DIAG SUPPORT MNTR", put marks onto the items with "No indication", "NG", or "UNKWN" in the check sheet table.

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR									
	Initial diagnosis	Transmit diagnosis	Receive diagnosis							
	ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/TCS/ABS	IPDM E/R		
ENGINE	-	NC	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NC	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
BCM	No indication	NC	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	-	-
ABS	-	NC	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	-
IPDM E/R	No indication	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-

BKIA0061E

NOTE:

- If "NG" is displayed on "INITIAL DIAG (Initial diagnosis)" as "CAN DIAG SUPPORT MNTR" for the diagnosed control unit, replace the control unit.

CAN SYSTEM (TYPE 11)

[CAN]

-
- The “CAN DIAG SUPPORT MNTR” items which are not in check sheet table are not related to diagnostic procedure on service manual.
Therefore, it is not necessary to check the status of the “CAN DIAG SUPPORT MNTR” items not in check sheet table.

5. Check CAN communication line of the navigation system.
6. Mark the “NG” or “UNKWN” item of the check sheet table from the result of CAN DIAG SUPPORT MONITOR check sheet.

NOTE:

If “NG” is displayed on “CAN COMM” as “CAN DIAG SUPPORT MNTR” for the diagnosed control unit, replace the control unit.

7. According to the Check Sheet Results, start inspection.

CAN SYSTEM (TYPE 11)

[CAN]

CHECK SHEET

Check sheet table

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/ M&A	STRG	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN	-
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-

Symptoms:

Attach copy of
SELECT SYSTEM

Attach copy of
SELECT SYSTEM

Attach copy of
display unit
CAN DIAG MONITOR
check sheet

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BKIA0081E

CAN SYSTEM (TYPE 11)

[CAN]

Attach copy of ENGINE SELF-DIAG RESULTS	Attach copy of TRANSMISSION SELF-DIAG RESULTS	Attach copy of BCM SELF-DIAG RESULTS	Attach copy of METER A/C AMP SELF-DIAG RESULTS
Attach copy of ABS SELF-DIAG RESULTS	Attach copy of AUTO DRIVE POS. SELF-DIAG RESULTS	Attach copy of IPDM E/R SELF-DIAG RESULTS	
Attach copy of ENGINE CAN DIAG SUPPORT MNTR	Attach copy of TRANSMISSION CAN DIAG SUPPORT MNTR	Attach copy of BCM CAN DIAG SUPPORT MNTR	Attach copy of METER A/C AMP CAN DIAG SUPPORT MNTR
Attach copy of ABS CAN DIAG SUPPORT MNTR	Attach copy of AUTO DRIVE POS. CAN DIAG SUPPORT MNTR	Attach copy of IPDM E/R CAN DIAG SUPPORT MNTR	

BKIA0085E

CAN SYSTEM (TYPE 11)

[CAN]

CHECK SHEET RESULTS

Case 1

Replace ECM.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR										
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/TCS/ABS	IPDM E/R	
ENGINE	-	✓	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	UNKWN	-
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7	-
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	UNKWN	-
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-	-

WKIA2499E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR										
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/TCS/ABS	IPDM E/R	
ENGINE	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	UNKWN	-
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7	-
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	UNKWN	-
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-	-

WKIA2500E

Case 2

Replace TCM.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR										
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/TCS/ABS	IPDM E/R	
ENGINE	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	-	✓	UNKWN	UNKWN	-	-	UNKWN	-	-	-	UNKWN	-
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7	-
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	UNKWN	-
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-	-

WKIA2501E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR										
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/TCS/ABS	IPDM E/R	
ENGINE	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	-
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7	-
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	-
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	UNKWN	-
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-	-

WKIA2502E

CAN SYSTEM (TYPE 11)

[CAN]

Case 3

Replace display control unit.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
			ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/HCS/ABS	IPDM E/R	
ENGINE	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	
TRANSMISSION	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7	
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	

WKIA2503E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
			ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/HCS/ABS	IPDM E/R	
ENGINE	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	
TRANSMISSION	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7	
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	

WKIA2504E

Case 4

Replace BCM.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
			ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/HCS/ABS	IPDM E/R	
ENGINE	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	
TRANSMISSION	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7	
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	

WKIA2505E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
			ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/HCS/ABS	IPDM E/R	
ENGINE	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	
TRANSMISSION	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7	
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	

WKIA2506E

Case 5

Replace unified meter and A/C amp.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/HCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN		UNKWN		UNKWN		UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN			UNKWN			UNKWN	
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3			CAN CIRC 5		CAN CIRC 2		CAN CIRC 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN			UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN			UNKWN				UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN		UNKWN		UNKWN		UNKWN		
ABS	-	NG	UNKWN	UNKWN	UNKWN			UNKWN			
IPDM E/R	No indication		UNKWN	UNKWN					UNKWN		

WKIA2507E

Case 6

Replace driver seat control unit.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/HCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN		UNKWN		UNKWN		UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN			UNKWN			UNKWN	
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3			CAN CIRC 5		CAN CIRC 2		CAN CIRC 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN			UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN			UNKWN				UNKWN
AUTO DRIVE POS	No indication	✓	UNKWN		UNKWN		UNKWN		UNKWN		
ABS	-	NG	UNKWN	UNKWN	UNKWN			UNKWN			
IPDM E/R	No indication		UNKWN	UNKWN					UNKWN		

WKIA2508E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/HCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN		UNKWN		UNKWN		UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN			UNKWN			UNKWN	
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3			CAN CIRC 5		CAN CIRC 2		CAN CIRC 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN			UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN			UNKWN				UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN		UNKWN		UNKWN		UNKWN		
ABS	-	NG	UNKWN	UNKWN	UNKWN			UNKWN			
IPDM E/R	No indication		UNKWN	UNKWN					UNKWN		

WKIA2509E

Case 7

Replace ABS actuator and electric unit (control unit).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/HCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN		UNKWN		UNKWN		UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN			UNKWN			UNKWN	
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3			CAN CIRC 5		CAN CIRC 2		CAN CIRC 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN			UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN			UNKWN				UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN		UNKWN		UNKWN		UNKWN		
ABS	-	✓	UNKWN	UNKWN	UNKWN			UNKWN			
IPDM E/R	No indication		UNKWN	UNKWN					UNKWN		

WKIA2510E

CAN SYSTEM (TYPE 11)

[CAN]

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/ M&A	STRG	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN	-
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-

WKIA2511E

Case 8

Replace IPDM E/R.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/ M&A	STRG	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN	-
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-

WKIA2512E

Case 9

Check harness between TCM and data link connector. Refer to [LAN-267](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/ M&A	STRG	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN	-
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-

WKIA2513E

Case 10

Check harness between data link connector and driver seat control unit. Refer to [LAN-267](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/ M&A	STRG	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN	-
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-

WKIA2514E

CAN SYSTEM (TYPE 11)

[CAN]

Case 11

Check harness between driver seat control unit and ABS actuator and electric unit (control unit). Refer to [LAN-268](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/ M&A	STRG	BCM/SEC	VDC/HCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN		UNKWN		UNKWN		UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN			UNKWN			UNKWN	UNKWN
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN				UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN			UNKWN				UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN			UNKWN			
IPDM E/R	No indication		UNKWN	UNKWN							UNKWN

WKIA2515E

Case 12

Check ECM circuit. Refer to [LAN-268](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/ M&A	STRG	BCM/SEC	VDC/HCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	UNKWN	UNKWN		UNKWN		UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN			UNKWN			UNKWN	UNKWN
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN			UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN			UNKWN				UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN			UNKWN			
IPDM E/R	No indication		UNKWN	UNKWN					UNKWN		

WKIA2516E

Case 13

Check TCM circuit. Refer to [LAN-269](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/ M&A	STRG	BCM/SEC	VDC/HCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	UNKWN	UNKWN		UNKWN		UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN			UNKWN			UNKWN	UNKWN
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN			UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN			UNKWN				UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN			UNKWN			
IPDM E/R	No indication		UNKWN	UNKWN					UNKWN		

WKIA2517E

Case 14

Check display control unit circuit. Refer to [LAN-269](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/ M&A	STRG	BCM/SEC	VDC/HCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	UNKWN	UNKWN		UNKWN		UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN			UNKWN			UNKWN	UNKWN
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN			UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN			UNKWN				UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN			UNKWN			
IPDM E/R	No indication		UNKWN	UNKWN					UNKWN		

WKIA2518E

Case 15

Check data link connector circuit. Refer to [LAN-270](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/ICSI/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-
IPDM E/R	No indication	NG	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2519E

Case 16

Check BCM circuit. Refer to [LAN-270](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/ICSI/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-
IPDM E/R	No indication	NG	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2520E

Case 17

Check unified meter and A/C amp. circuit. Refer to [LAN-271](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/ICSI/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-
IPDM E/R	No indication	NG	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2521E

Case 18

Check steering angle sensor circuit. Refer to [LAN-271](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/ICSI/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-
IPDM E/R	No indication	NG	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2522E

Case 19

Check driver seat control unit circuit. Refer to [LAN-272](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNT'R										
	Initial diagnosis	Transmit diagnosis	Receive diagnosis							IPDM E/R	
			ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/HCS/ABS		
ENGINE	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN	UNKWN
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-

WKIA2523E

Case 20

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-272](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNT'R										
	Initial diagnosis	Transmit diagnosis	Receive diagnosis							IPDM E/R	
			ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/HCS/ABS		
ENGINE	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN	UNKWN
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-

WKIA2524E

Case 21

Check IPDM E/R circuit. Refer to [LAN-273](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNT'R										
	Initial diagnosis	Transmit diagnosis	Receive diagnosis							IPDM E/R	
			ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/HCS/ABS		
ENGINE	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN	UNKWN
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-

WKIA2525E

Case 22

Check CAN communication circuit. Refer to [LAN-274](#).

SELECT SYSTEM screen	CAN DIAG SUPPORT MNT'R										
	Initial diagnosis	Transmit diagnosis	Receive diagnosis							IPDM E/R	
			ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/HCS/ABS		
ENGINE	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-

WKIA2526E

CAN SYSTEM (TYPE 11)

[CAN]

Case 23

Check IPDM E/R Ignition relay circuit. Refer to [LAN-274](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/ESC/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7	-
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-

WKIA2527E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/ESC/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7	-
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-

WKIA2528E

Circuit Check Between TCM and Data Link Connector**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

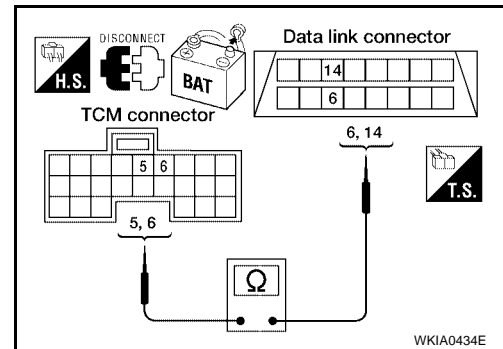
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between TCM connector F56 terminals 5 (L), 6 (Y) and data link connector M22 terminals 6 (L), 14 (Y).

- 5 (L) - 6 (L) : Continuity should exist.**
6 (Y) - 14 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-255, "Work Flow"](#).
 NG >> Repair harness.

**Circuit Check Between Driver Seat Control Unit and Data Link Connector****1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

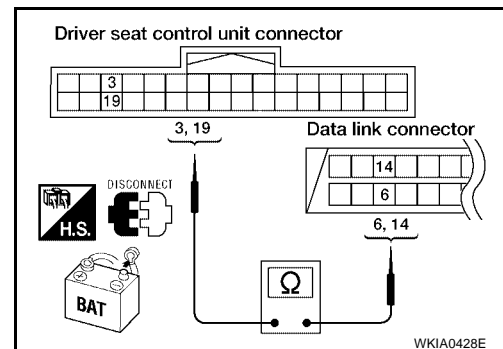
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and data link connector M22 terminals 6 (L), 14 (Y).

- 3 (BR) - 6 (L) : Continuity should exist.**
19 (Y/G) - 14 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-255](#).
 NG >> Repair harness.



Circuit Check Between Driver Seat Control Unit and ABS Actuator and Electric Unit (Control Unit)

EKS00A2U

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2, ABS actuator and electric unit (control unit) connector E125 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

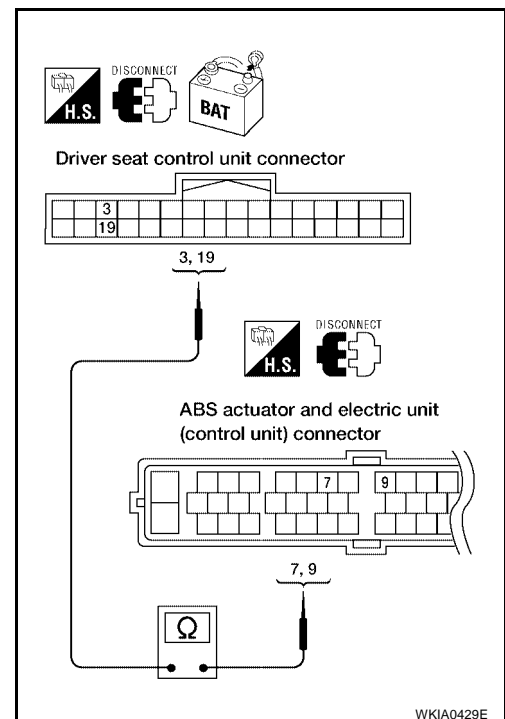
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and ABS actuator and electric unit (control unit) connector E125 terminals 7 (L), 9 (Y).

- 3 (BR) - 7 (L) : Continuity should exist.**
19 (Y/G) - 9 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-255](#).
 NG >> Repair harness.



WKIA0429E

ECM Circuit Check

EKS00A2V

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

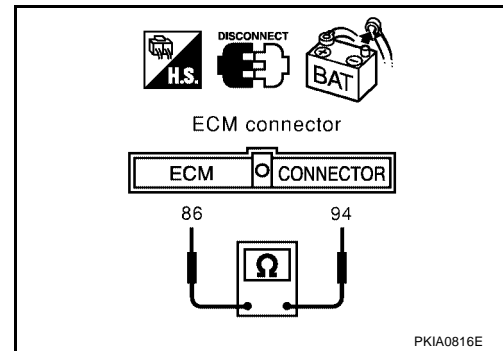
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between ECM connector M82 terminal 94 (L) and terminal 86 (Y).

94 (L) - 86 (Y) : Approx. 108 - 132Ω

OK or NG

- OK >> Replace ECM.
 NG >> Repair harness between ECM connector M82 and TCM connector F56.



EKS00A2W

TCM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

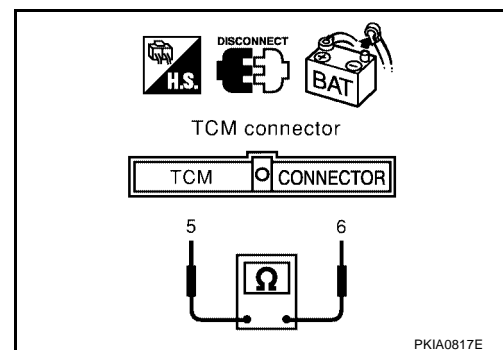
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between TCM connector F56 terminal 5 (L) and terminal 6 (Y).

5 (L) - 6 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace TCM.
 NG >> Repair harness between TCM connector F56 and ECM connector M82.



EKS00A2X

Display Control Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect display control unit connector M95.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

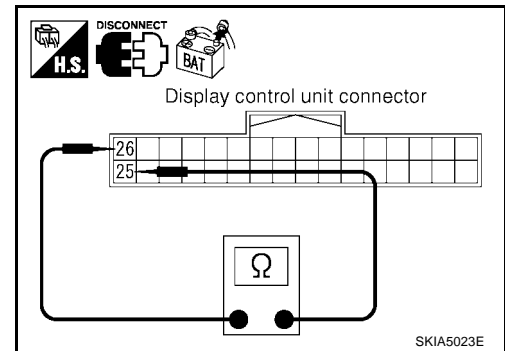
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between display control unit connector M95 terminal 25 (L) and terminal 26 (Y).

25 (L) - 26 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace display control unit.
 NG >> Repair harness between display control unit connector M95 and data link connector M22.



EKS00A2Y

Data Link Connector Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Check data link connector M22 terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

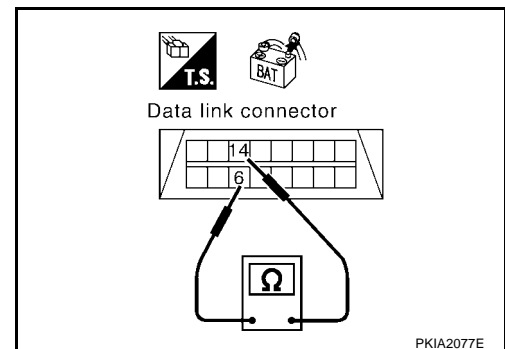
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector M22 terminal 6 (L) and terminal 14 (Y).

6 (L) - 14 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-255](#).
 NG >> Repair harness between data link connector M22 and BCM connector M18.



EKS00A2Z

BCM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect BCM connector M18.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

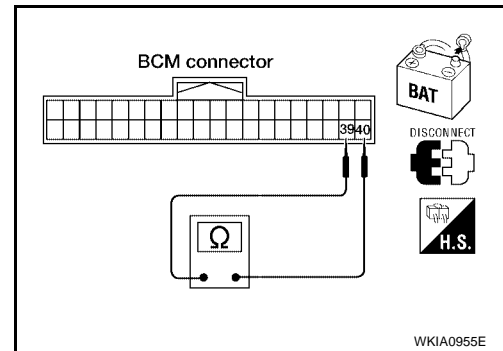
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between BCM connector M18 terminal 39 (L) and terminal 40 (Y).

39 (L) - 40 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace BCM.
 NG >> Repair harness between BCM connector M18 and data link connector M22.



EKS00A30

Unified Meter and A/C Amp. Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect unified meter and A/C amp. connector M49.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

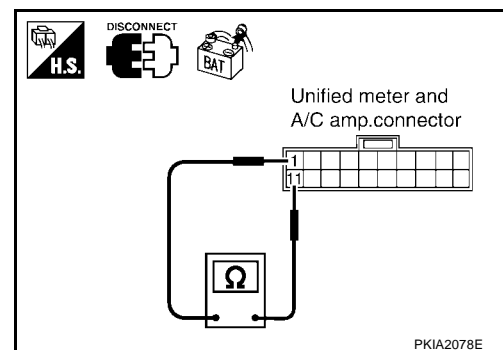
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between unified meter and A/C amp. connector M49 terminal 1 (L) and terminal 11 (Y).

1 (L) - 11 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace unified meter and A/C amp.
 NG >> Repair harness between unified meter and A/C amp. connector M49 and data link connector M22.



EKS00A31

Steering Angle Sensor Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect steering angle sensor connector M47.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

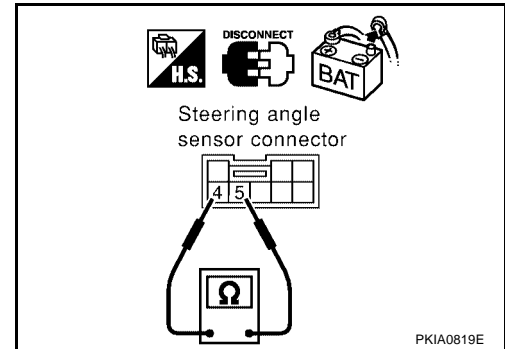
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between steering angle sensor connector M47 terminal 4 (L) and terminal 5 (Y).

4 (L) - 5 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace steering angle sensor.
 NG >> Repair harness between steering angle sensor connector M47 and data link connector M22.



Driver Seat Control Unit Circuit Check

EKS00A32

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

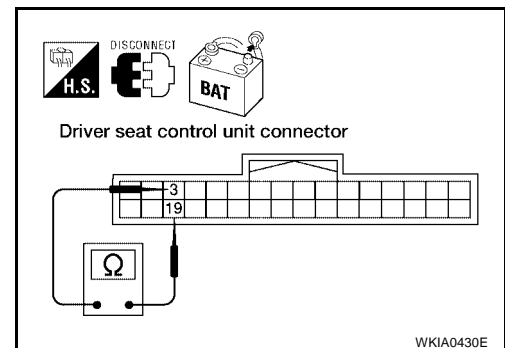
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between driver seat control unit connector P2 terminal 3 (BR) and terminal 19 (Y/G).

3 (BR) - 19 (Y/G) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace driver seat control unit.
 NG >> Repair harness between driver seat control unit connector P2 and data link connector M22.



ABS Actuator and Electric Unit (Control Unit) Circuit Check

EKS00A33

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ABS actuator and electric unit (control unit) connector E125.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

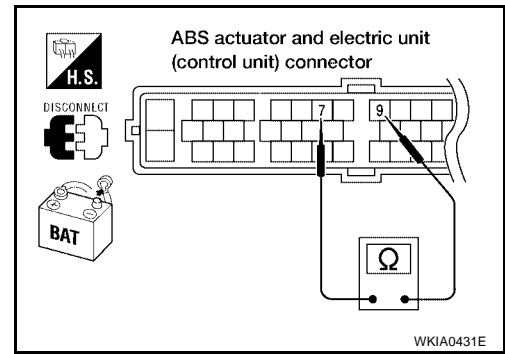
Check resistance between ABS actuator and electric unit (control unit) connector E125 terminal 7 (L) and terminal 9 (Y).

7 (L) - 9 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace ABS actuator and electric unit (control unit).
- NG >> Repair harness between ABS actuator and electric unit (control unit) connector E125 and IPDM E/R connector E121.



EKS00A34

IPDM E/R Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect IPDM E/R connector E121.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
- NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

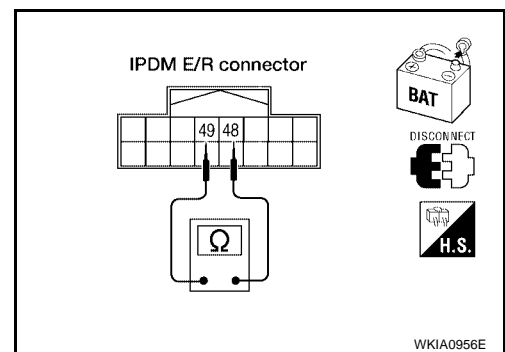
Check resistance between IPDM E/R connector E121 terminal 48 (L) and terminal 49 (Y).

48 (L) - 49 (Y)

: Approx. 108 - 132Ω

OK or NG

- OK >> Replace IPDM E/R.
- NG >> Repair harness between IPDM E/R connector E121 and ABS actuator and electric unit (control unit) connector E125.



CAN Communication Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect the following module and control unit connectors and check terminals for deformation, disconnection, looseness or damage.
 - ECM
 - TCM (Transmission control module)
 - Display control unit
 - BCM (Body control module)
 - Unified meter and A/C amp.
 - Steering angle sensor
 - Driver seat control unit
 - ABS actuator and electric unit (control unit)
 - IPDM E/R (Intelligent power distribution module engine room)

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

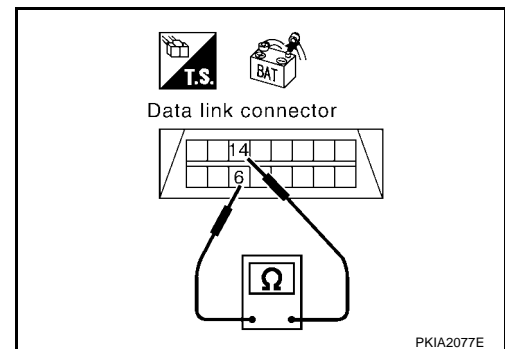
2. CHECK HARNESS FOR SHORTED CIRCUITS

With all module and control unit connectors disconnected, check continuity between data link connector M22 terminals 6 (L) and 14 (Y).

6 (L) - 14 (Y) : Continuity should not exist.

OK or NG

- OK >> GO TO 3.
 NG >> Repair the harness.



3. CHECK HARNESS FOR SHORT TO GROUND

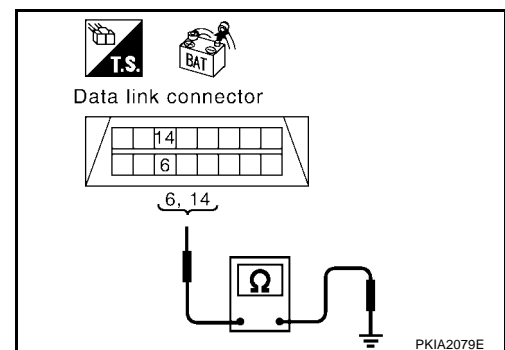
Check continuity between data link connector M22 terminals 6 (L), 14 (Y) and ground.

6 (L) - Ground : Continuity should not exist.

14 (Y) - Ground : Continuity should not exist.

OK or NG

- OK >> Check ECM and IPDM E/R. Refer to [LAN-275, "Component Inspection"](#) .
 NG >> Repair the harness.



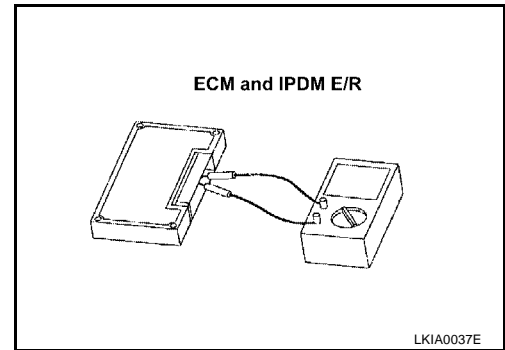
IPDM E/R Ignition Relay Circuit Check

Check the following. If no problem is found, replace the IPDM E/R.

- IPDM E/R power supply circuit. Refer to [PG-24, "IPDM E/R Power/Ground Circuit Inspection"](#) .
- Ignition power supply circuit. Refer to [PG-11, "IGNITION POWER SUPPLY — IGNITION SW. IN ON AND/OR START"](#) .

Component Inspection**ECM/IPDM E/R INTERNAL CIRCUIT INSPECTION**

- Remove ECM and IPDM E/R from vehicle.
- Check resistance between ECM terminals 94 and 86.
94 - 86 : Approx. 108 - 132Ω
- Check resistance between IPDM E/R terminals 48 and 49.
48 - 49 : Approx. 108 - 132Ω



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CAN SYSTEM (TYPE 12)

PFP:23710

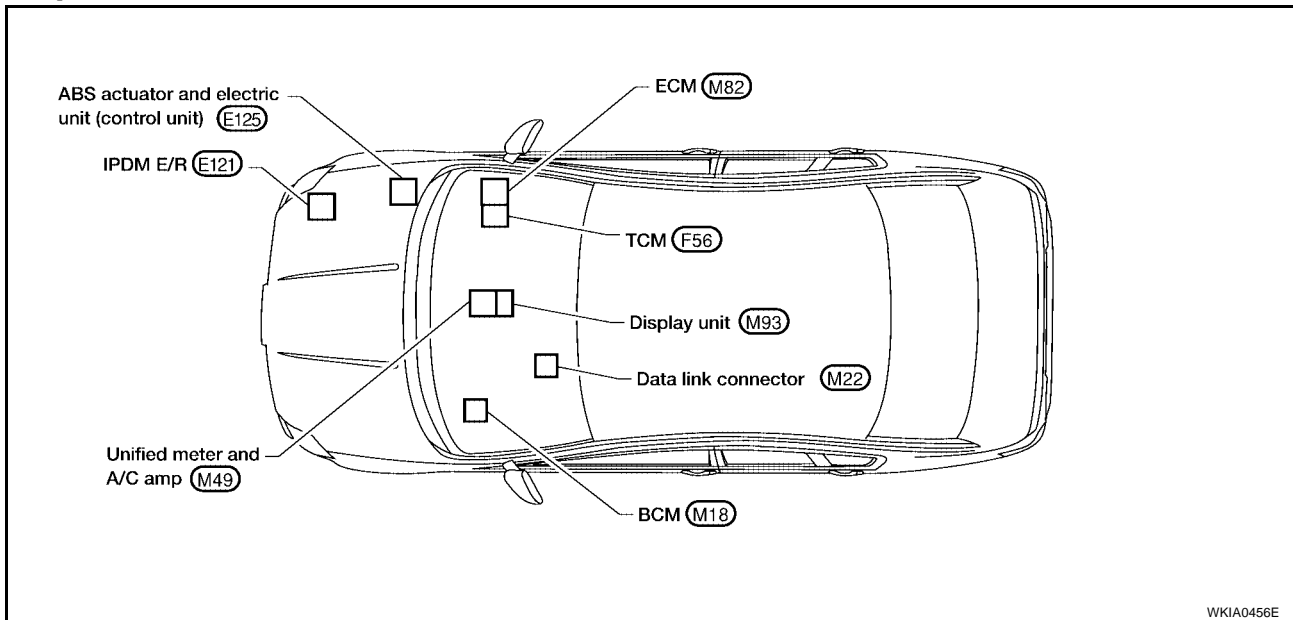
System Description

EKS00A25

CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H line, CAN L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

Component Parts and Harness Connector Location

EKS00A26

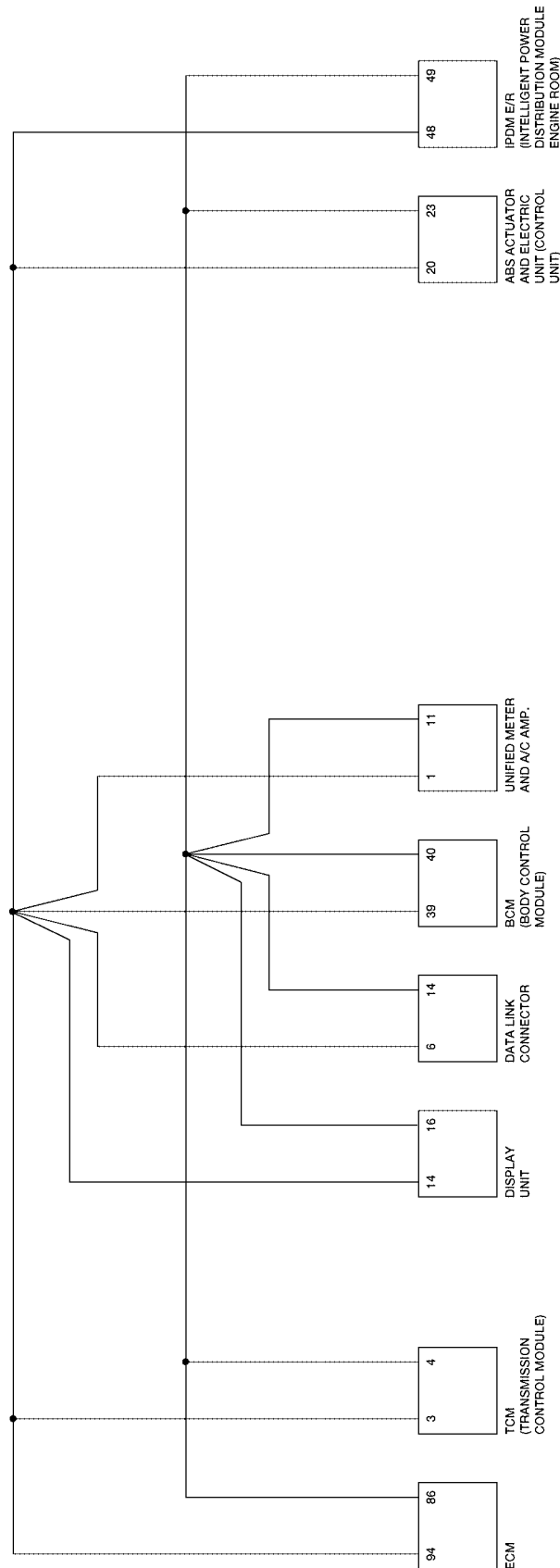


CAN SYSTEM (TYPE 12)

[CAN]

Schematic

EKS00A27



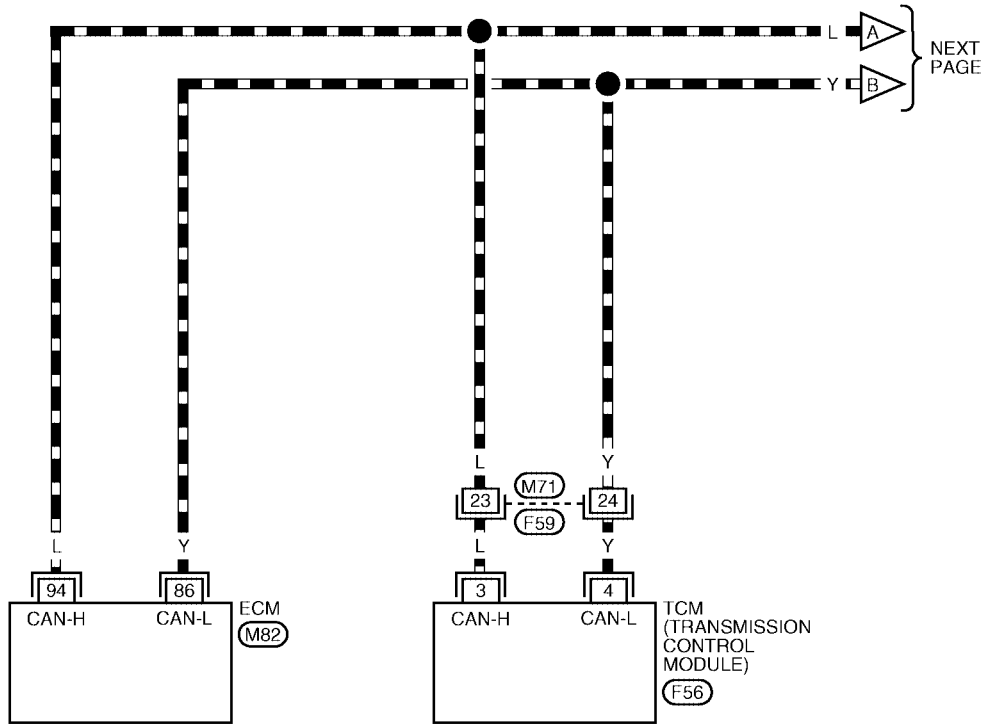
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WKWA0468E

Wiring Diagram - CAN -

LAN-CAN-34

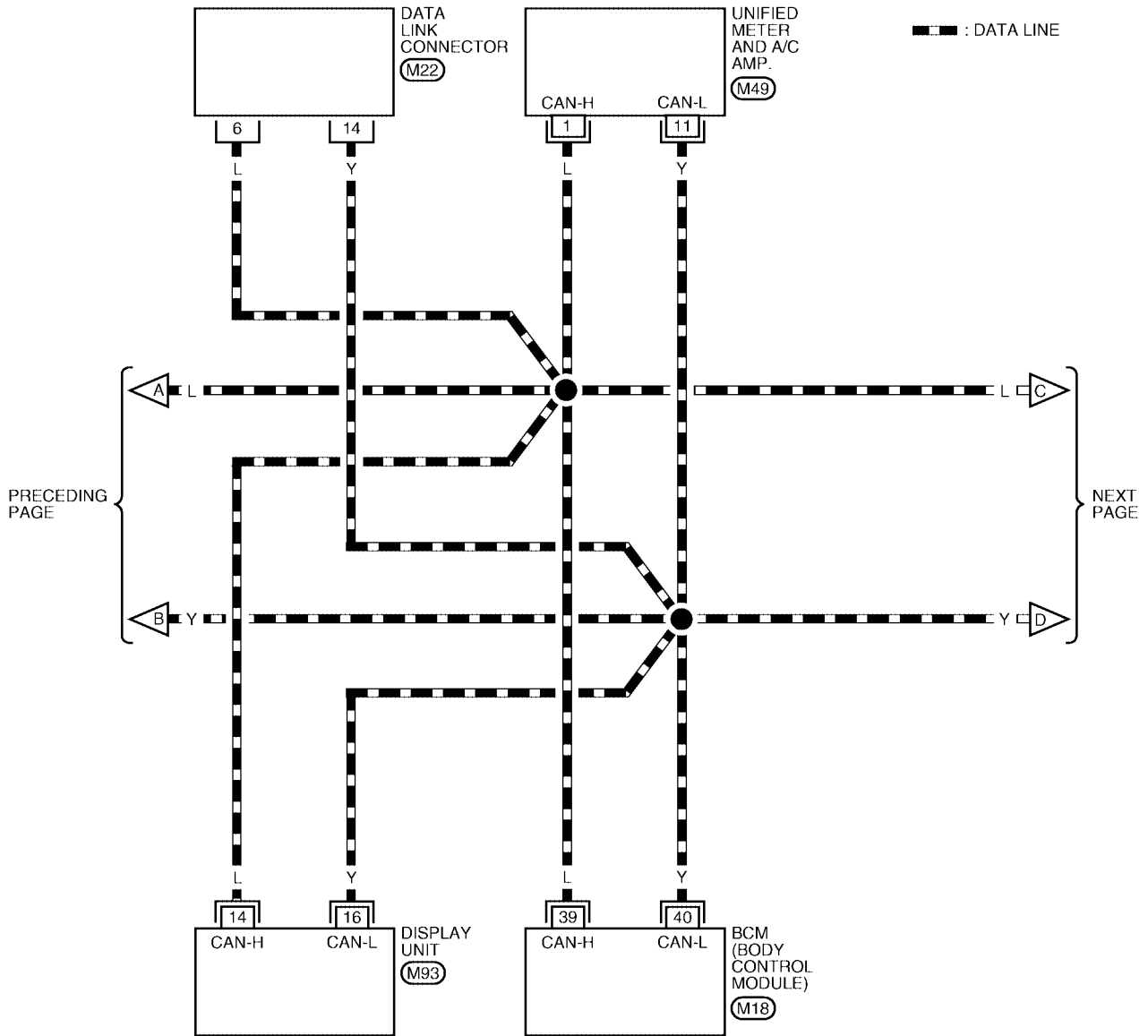
— : DATA LINE



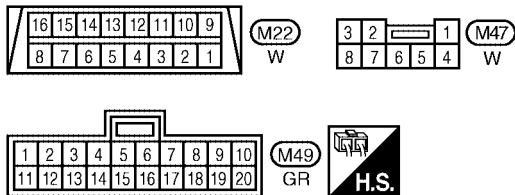
1	2	3	4	5	6	7	8	9	10	11	F59		
12	13	14	15	16	17	18	19	20	21	22	23	24	W

REFER TO THE FOLLOWING.
 (M82), (F56) - ELECTRICAL
 UNITS

LAN-CAN-35



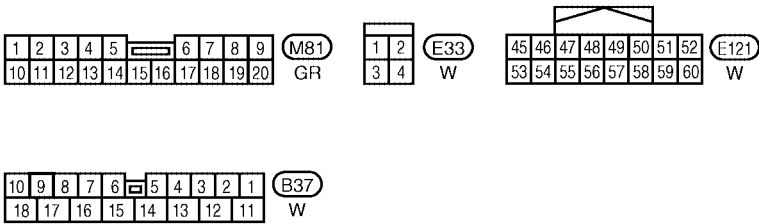
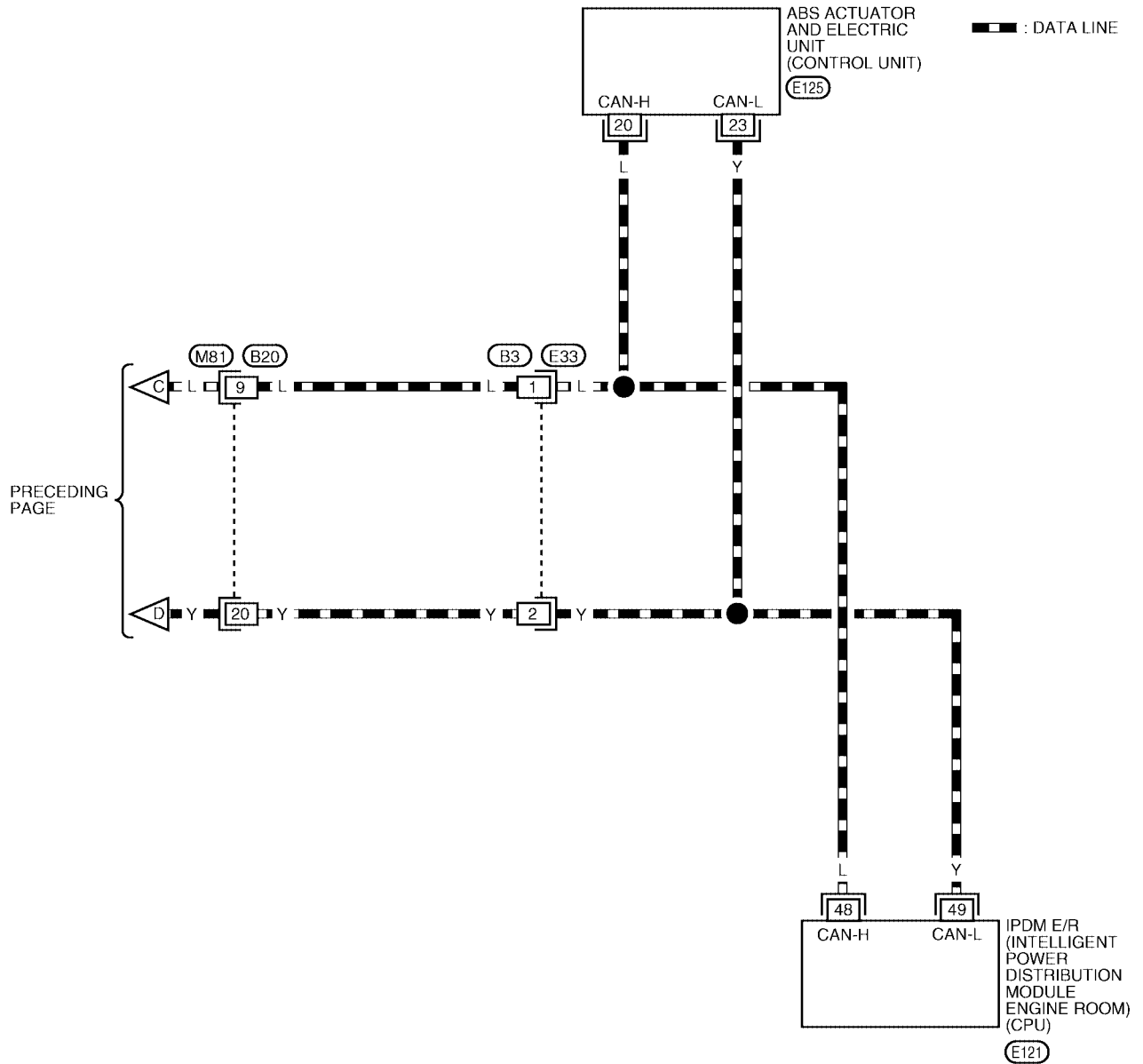
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REFER TO THE FOLLOWING.
(M18) - ELECTRICAL UNITS

BKWA0232E

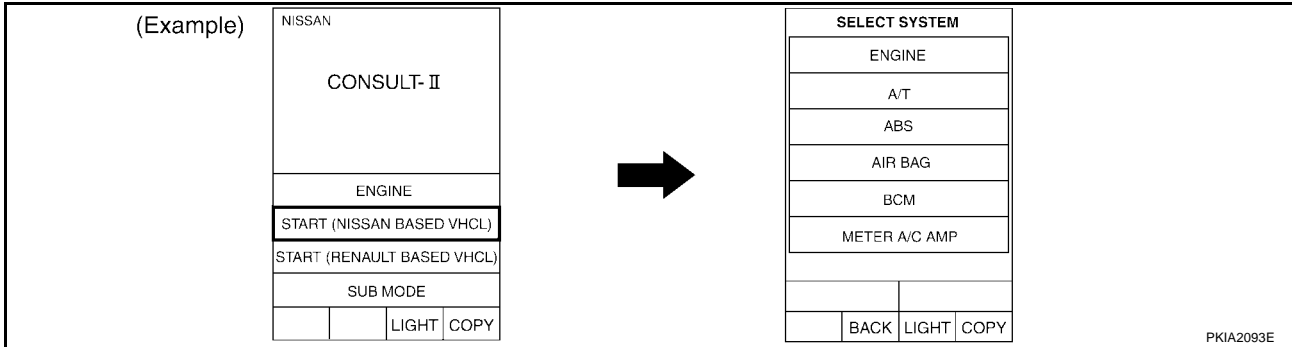
LAN-CAN-36



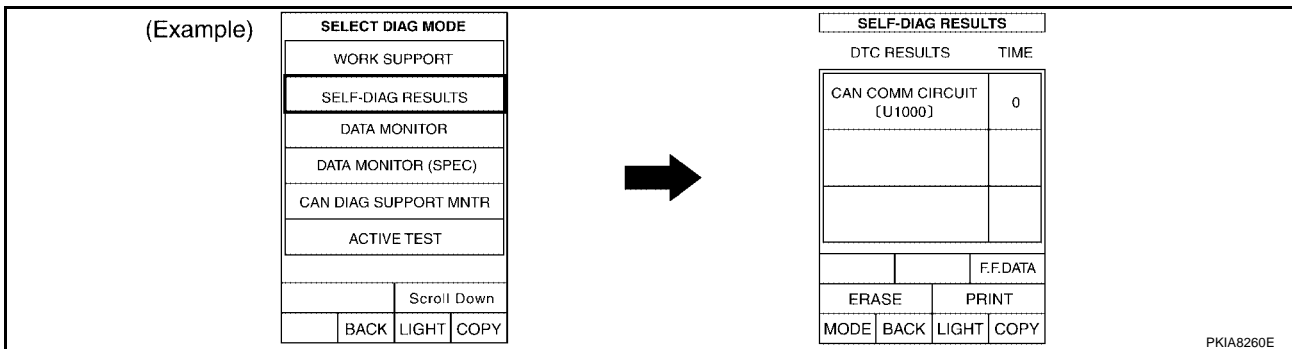
REFER TO THE FOLLOWING.
 (E125) - ELECTRICAL UNITS

Work Flow

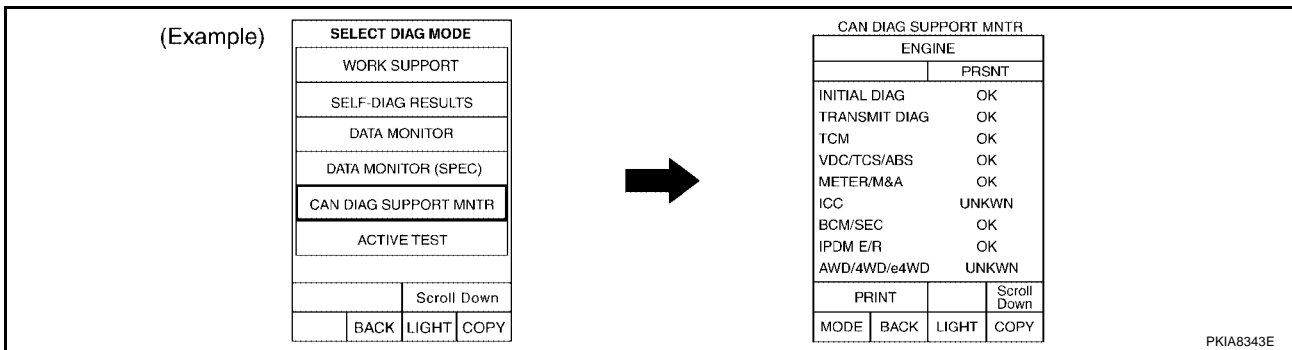
- When there are no indications of "TRANSMISSION", "BCM", "IPDM E/R" or "METER A/C AMP" on "SELECT SYSTEM" display of CONSULT-II, print the "SELECT SYSTEM".



- Print all the data of "SELF-DIAG RESULTS" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Print all the data of "CAN DIAG SUPPORT MNTR" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Based on the indications of "SELECT SYSTEM" and the results of "CAN DIAG SUPPORT MNTR", put marks onto the items with "No indication", "NG", or "UNKWN" in the check sheet table.

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR									
	Initial diagnosis	Transmit diagnosis	Receive diagnosis							IPDM E/R
			ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/AHS		
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

BKIA0062E

NOTE:

- If "NG" is displayed on "INITIAL DIAG (Initial diagnosis)" as "CAN DIAG SUPPORT MNTR" for the diagnosed control unit, replace the control unit.

CAN SYSTEM (TYPE 12)

[CAN]

-
- The “CAN DIAG SUPPORT MNTR” items which are not in check sheet table are not related to diagnostic procedure on service manual.
Therefore, it is not necessary to check the status of the “CAN DIAG SUPPORT MNTR” items not in check sheet table.
5. Mark the “NG” or “UNKWN” item of the check sheet table from the result of CAN DIAG SUPPORT MONITOR check sheet.

NOTE:

If “NG” is displayed on “CAN COMM” as “CAN DIAG SUPPORT MNTR” for the diagnosed control unit, replace the control unit.

6. According to the Check Sheet Results, start inspection.

CAN SYSTEM (TYPE 12)

[CAN]

CHECK SHEET

Check sheet table

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

Symptoms:

Attach copy of
SELECT SYSTEM

Attach copy of
SELECT SYSTEM

Attach copy of
display unit
CAN DIAG MONITOR
check sheet

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BKIA0077E

CAN SYSTEM (TYPE 12)

[CAN]

Attach copy of ENGINE SELF-DIAG RESULTS	Attach copy of TRANSMISSION SELF-DIAG RESUL	Attach copy of ABS SELF-DIAG RESULTS
Attach copy of BCM SELF-DIAG RESULTS	Attach copy of METER A/C AMP SELF-DIAG RESULTS	Attach copy of IPDM E/R SELF-DIAG RESULTS
Attach copy of ENGINE CAN DIAG SUPPORT MNTR	Attach copy of TRANSMISSION CAN DIAG SUPPORT MNTR	Attach copy of ABS CAN DIAG SUPPORT MNTR
Attach copy of BCM CAN DIAG SUPPORT MNTR	Attach copy of METER A/C AMP CAN DIAG SUPPORT MNTR	Attach copy of IPDM E/R CAN DIAG SUPPORT MNTR

BKIA0084E

CAN SYSTEM (TYPE 12)

[CAN]

CHECK SHEET RESULTS

Case 1

Replace ECM.

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				Receive diagnosis						
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2529E

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				Receive diagnosis						
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2530E

Case 2

Replace TCM.

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				Receive diagnosis						
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2531E

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				Receive diagnosis						
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2532E

CAN SYSTEM (TYPE 12)

[CAN]

Case 3

Replace display unit.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						VDC/CS/AHS	IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC			
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7	
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN	
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	

WKIA2533E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						VDC/CS/AHS	IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC			
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7	
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN	
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	

WKIA2534E

Case 4

Replace BCM.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						VDC/CS/AHS	IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC			
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7	
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN	
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	

WKIA2535E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						VDC/CS/AHS	IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC			
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7	
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	
BCM	No indication	✓	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN	
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	

WKIA2536E

CAN SYSTEM (TYPE 12)

[CAN]

Case 5

Replace unified meter and A/C amp.

SHECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				Receive diagnosis						
				ECM	TCM	DISPLAY	METER/MKA	BCM/SEC	VDC/CS/AHS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2537E

Case 6

Replace ABS actuator and electric unit (control unit).

SHECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				Receive diagnosis						
				ECM	TCM	DISPLAY	METER/MKA	BCM/SEC	VDC/CS/AHS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
ABS	-	UNKWN	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2538E

SHECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				Receive diagnosis						
				ECM	TCM	DISPLAY	METER/MKA	BCM/SEC	VDC/CS/AHS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2539E

Case 7

Replace IPDM E/R.

SHECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				Receive diagnosis						
				ECM	TCM	DISPLAY	METER/MKA	BCM/SEC	VDC/CS/AHS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2540E

Case 8

Check harness between TCM and data link connector. Refer to [LAN-292](#) .

S-LECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISP LAY	METER/MKA	BCM/SEC	VDC/TCS/AHS	
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2541E

Case 9

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to [LAN-292](#) .

S-LECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISP LAY	METER/MKA	BCM/SEC	VDC/TCS/AHS	
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	UNKWN
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2542E

Case 10

Check ECM circuit. Refer to [LAN-293](#) .

S-LECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISP LAY	METER/MKA	BCM/SEC	VDC/TCS/AHS	
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2543E

Case 11

Check TCM circuit. Refer to [LAN-294](#) .

S-LECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISP LAY	METER/MKA	BCM/SEC	VDC/TCS/AHS	
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2544E

CAN SYSTEM (TYPE 12)

[CAN]

Case 12

Check display unit circuit. Refer to [LAN-294](#).

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				Receive diagnosis						
				ECM	TCM	DISP LAY	METER/ MKA	BCM/SEC	VDC/CS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit	-	CAN COMM	✓1	✓3	-	-	✓5	✓2	-	✓7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	✓	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2545E

Case 13

Check data link connector circuit. Refer to [LAN-295](#).

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				Receive diagnosis						
				ECM	TCM	DISP LAY	METER/ MKA	BCM/SEC	VDC/CS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2546E

Case 14

Check BCM circuit. Refer to [LAN-295](#).

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				Receive diagnosis						
				ECM	TCM	DISP LAY	METER/ MKA	BCM/SEC	VDC/CS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	✓	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	✓2	-	CAN 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	✓	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	✓	-	-

WKIA2547E

Case 15

Check unified meter and A/C amp. circuit. Refer to [LAN-296](#).

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				Receive diagnosis						
				ECM	TCM	DISP LAY	METER/ MKA	BCM/SEC	VDC/CS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	✓5	CAN 2	-	CAN 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	✓	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2548E

CAN SYSTEM (TYPE 12)

[CAN]

Case 16

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-296](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						VDC/TCS/AHS	IPDM E/R
				ECM	TCM	DISPLAY	MF-TR/MKA	BCM/SEC			
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	✓	CAN 7	
MF-TR A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN	
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	

WKIA2549E

Case 17

Check IPDM E/R circuit. Refer to [LAN-297](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						VDC/TCS/AHS	IPDM E/R
				ECM	TCM	DISPLAY	MF-TR/MKA	BCM/SEC			
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	✓	CAN 7	
MF-TR A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN	
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	UNKWN	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	

WKIA2550E

Case 18

Check CAN communication circuit. Refer to [LAN-297](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						VDC/TCS/AHS	IPDM E/R
				ECM	TCM	DISPLAY	MF-TR/MKA	BCM/SEC			
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	
Display unit	-	CAN COMM	✓ CAN 1	✓ CAN 3	-	-	✓ CAN 5	✓ CAN 2	✓	CAN 7	
MF-TR A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN	
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	

WKIA2551E

Case 19

Check IPDM E/R Ignition relay circuit. Refer to [LAN-298](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						VDC/TCS/AHS	IPDM E/R
				ECM	TCM	DISPLAY	MF-TR/MKA	BCM/SEC			
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN	
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	✓	CAN 7	
MF-TR A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN	
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	

WKIA2552E

CAN SYSTEM (TYPE 12)

[CAN]

SELECT SYSTEM screen	CAN DIAG SUPPORT MONTR									
	Initial diagnosis	Transmit diagnosis	Receive diagnosis							
			ECM	TCM	DISPLAY	METER/MKA	BCM/SEC	VDC/CS/ABS	IPDM E/R	
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

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Circuit Check Between TCM and Data Link Connector

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

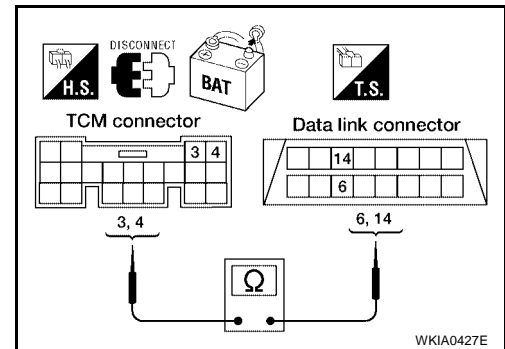
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between TCM connector F56 terminals 3 (L), 4 (Y) and data link connector M22 terminals 6 (L), 14 (Y).

- 3 (L) - 6 (L) : Continuity should exist.**
4 (Y) - 14 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-281, "Work Flow"](#).
 NG >> Repair harness.



Circuit Check Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit)

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ABS actuator and electric unit (control unit) connector E125 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

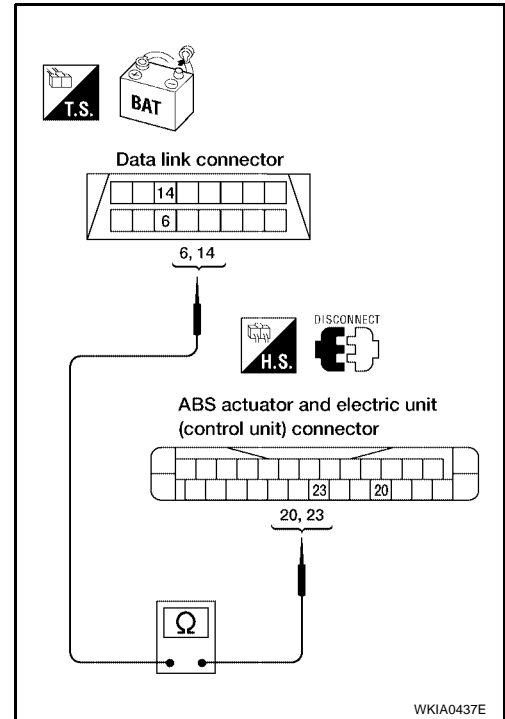
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between data link connector M22 terminals 6 (L), 14 (Y) and ABS actuator and electric unit (control unit) connector E125 terminals 20 (L), 23 (Y).

- 6 (L) - 20 (L) : Continuity should exist.**
- 14 (Y) - 23 (Y) : Continuity should exist.**

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-281](#).
- NG >> Repair harness.



ECM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
- NG >> Repair or replace as necessary.

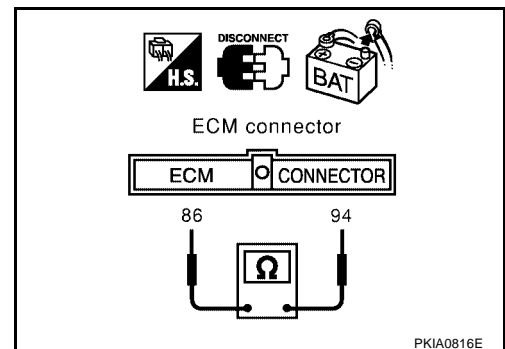
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between ECM connector M82 terminal 94 (L) and terminal 86 (Y).

- 94 (L) - 86 (Y) : Approx. 108 - 132Ω**

OK or NG

- OK >> Replace ECM.
- NG >> Repair harness between ECM connector M82 and TCM connector F56.



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TCM Circuit Check**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

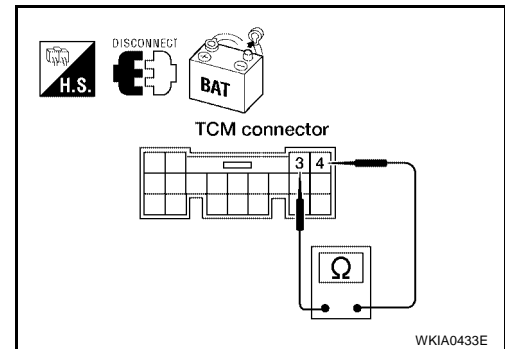
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between TCM connector F56 terminal 3 (L) and terminal 4 (Y).

3 (L) - 4 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace TCM.
 NG >> Repair harness between TCM connector F56 and ECM connector M82.

**Display Unit Circuit Check****1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect display unit connector M93.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

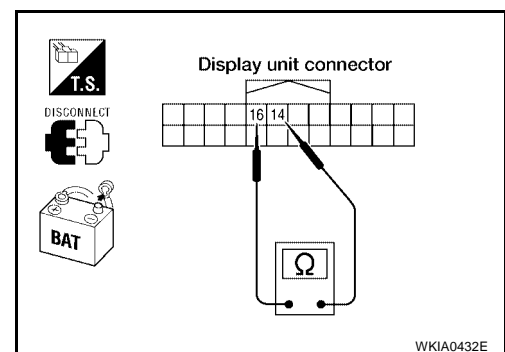
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between display unit connector M93 terminal 25 (L) and terminal 26 (Y).

14 (L) - 16 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace display unit.
 NG >> Repair harness between display unit connector M93 and data link connector M22.



Data Link Connector Circuit Check**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Check data link connector M22 terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

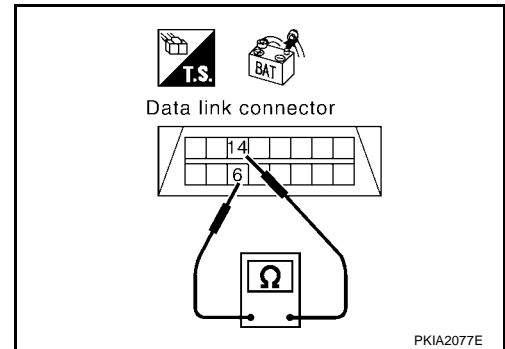
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector M22 terminal 6 (L) and terminal 14 (Y).

6 (L) - 14 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-281](#).
- NG >> Repair harness between data link connector M22 and BCM connector M18.



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BCM Circuit Check**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect BCM connector M18.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

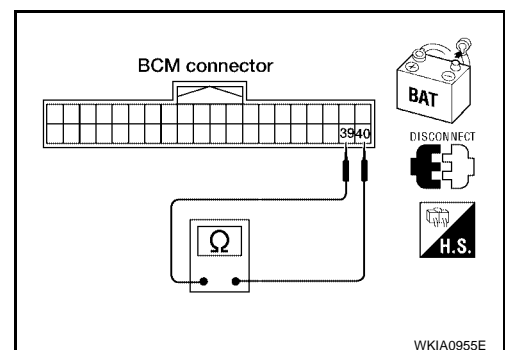
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between BCM connector M18 terminal 39 (L) and terminal 40 (Y).

39 (L) - 40 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace BCM.
 NG >> Repair harness between BCM connector M18 and data link connector M22.



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Unified Meter and A/C Amp. Circuit Check**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect unified meter and A/C amp. connector M49.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

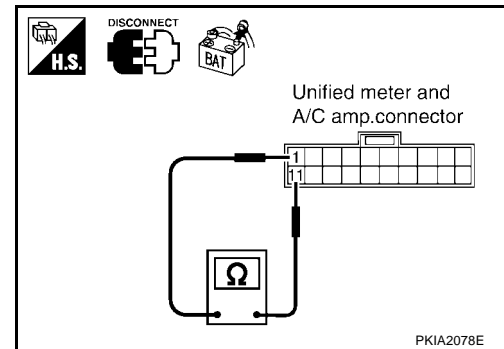
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between unified meter and A/C amp. connector M49 terminal 1 (L) and terminal 11 (Y).

1 (L) - 11 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace unified meter and A/C amp.
 NG >> Repair harness between unified meter and A/C amp. connector M49 and data link connector M22.

**ABS Actuator and Electric Unit (Control Unit) Circuit Check****1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ABS actuator and electric unit (control unit) connector E125.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

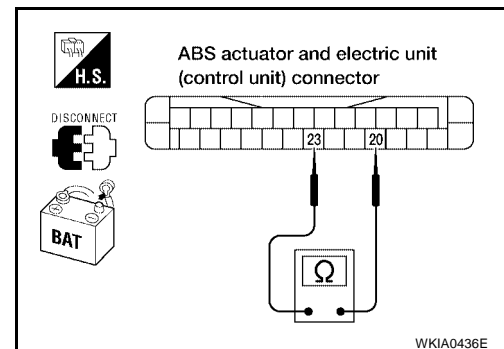
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between ABS actuator and electric unit (control unit) connector E125 terminal 20 (L) and terminal 23 (Y).

20 (L) - 23 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace ABS actuator and electric unit (control unit).
 NG >> Repair harness between ABS actuator and electric unit (control unit) connector E125 and IPDM E/R connector E121.



IPDM E/R Circuit Check**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect IPDM E/R connector E121.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

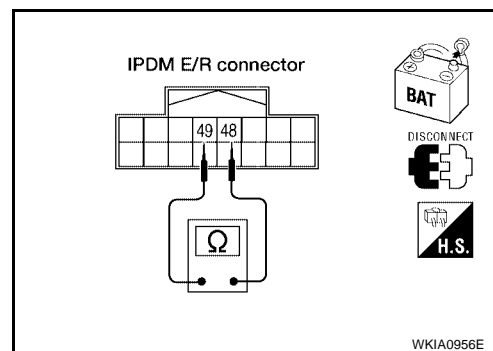
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between IPDM E/R connector E121 terminal 48 (L) and terminal 49 (Y).

48 (L) - 49 (Y) : Approx. 108 - 132Ω

OK or NG

- OK >> Replace IPDM E/R.
 NG >> Repair harness between IPDM E/R connector E121 and ABS actuator and electric unit (control unit) connector E125.

**CAN Communication Circuit Check****1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect the following module and control unit connectors and check terminals for deformation, disconnection, looseness or damage.
 - ECM
 - TCM (Transmission control module)
 - Display unit
 - BCM (Body control module)
 - Unified meter and A/C amp.
 - ABS actuator and electric unit (control unit)
 - IPDM E/R (Intelligent power distribution module engine room)

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

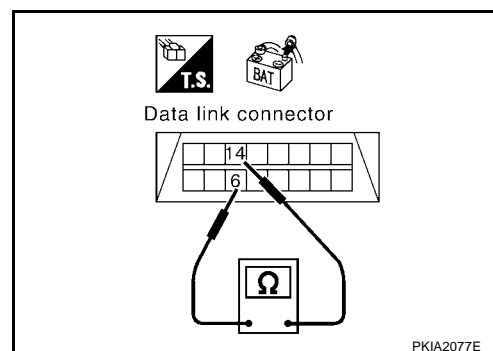
2. CHECK HARNESS FOR SHORTED CIRCUITS

With all module and control unit connectors disconnected, check continuity between data link connector M22 terminals 6 (L) and 14 (Y).

6 (L) - 14 (Y) : Continuity should not exist.

OK or NG

- OK >> GO TO 3.
 NG >> Repair the harness.



3. CHECK HARNESS FOR SHORT TO GROUND

Check continuity between data link connector M22 terminals 6 (L), 14 (Y) and ground.

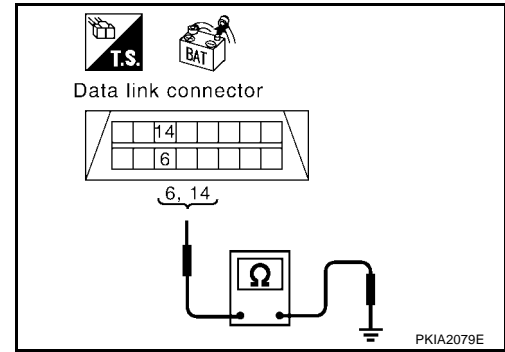
6 (L) - Ground : Continuity should not exist.

14 (Y) - Ground : Continuity should not exist.

OK or NG

OK >> Check ECM and IPDM E/R. Refer to [LAN-298, "Component Inspection"](#).

NG >> Repair the harness.



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IPDM E/R Ignition Relay Circuit Check

Check the following. If no problem is found, replace the IPDM E/R.

- IPDM E/R power supply circuit. Refer to [PG-24, "IPDM E/R Power/Ground Circuit Inspection"](#).
- Ignition power supply circuit. Refer to [PG-11, "IGNITION POWER SUPPLY — IGNITION SW. IN ON AND/OR START"](#).

Component Inspection

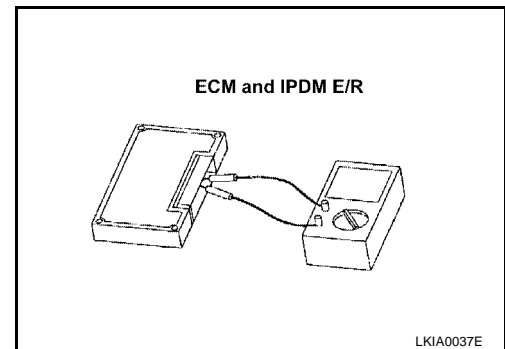
ECM/IPDM E/R INTERNAL CIRCUIT INSPECTION

- Remove ECM and IPDM E/R from vehicle.
- Check resistance between ECM terminals 94 and 86.

94 - 86 : Approx. 108 - 132Ω
- Check resistance between IPDM E/R terminals 48 and 49.

48 - 49 : Approx. 108 - 132Ω

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CAN SYSTEM (TYPE 13)

PFP:23710

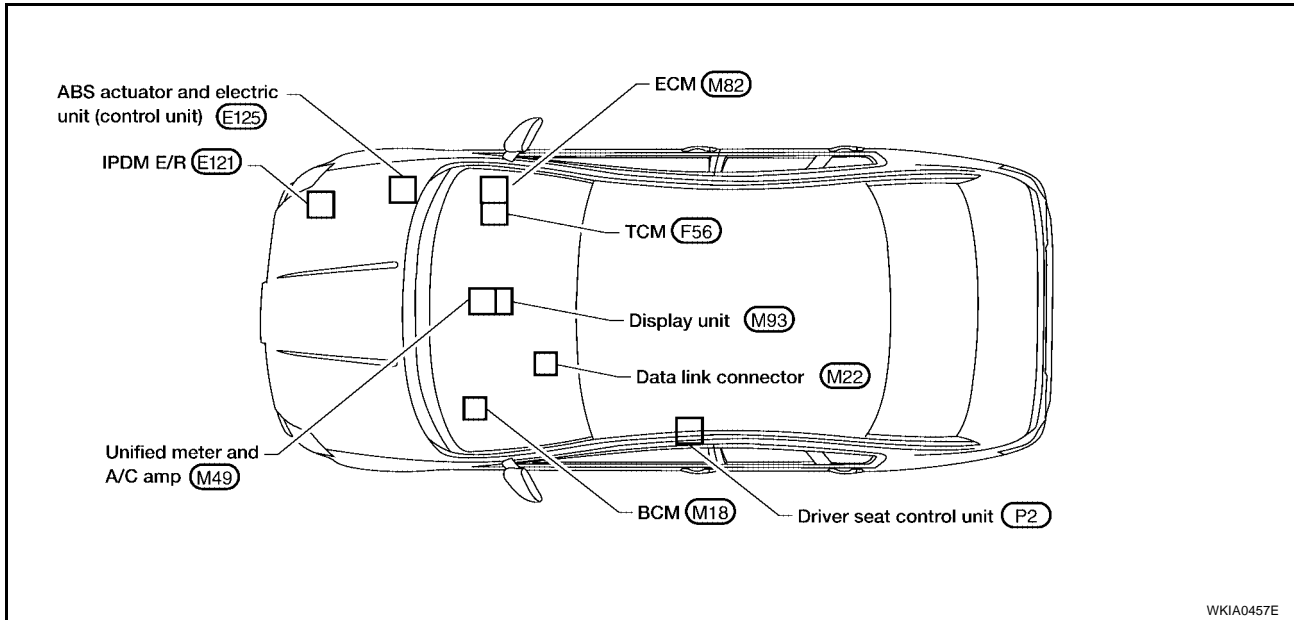
System Description

EKS00A1L

CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H line, CAN L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

Component Parts and Harness Connector Location

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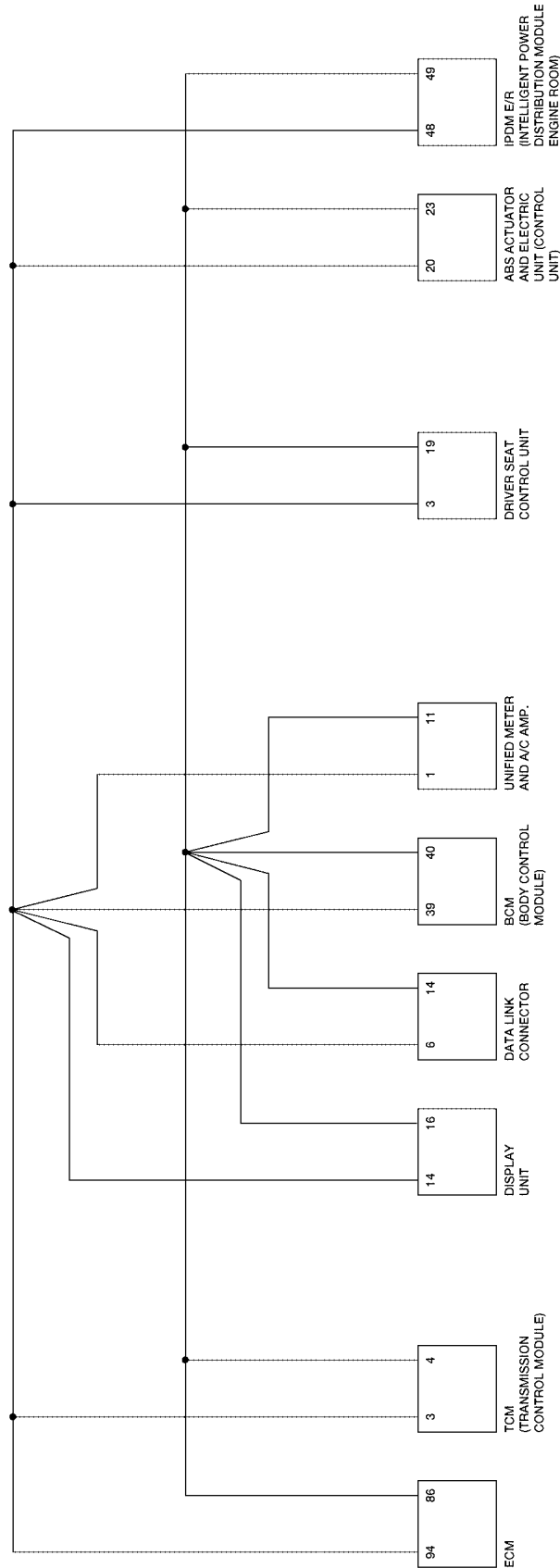
LAN

CAN SYSTEM (TYPE 13)

[CAN]

Schematic

EKS00A1N



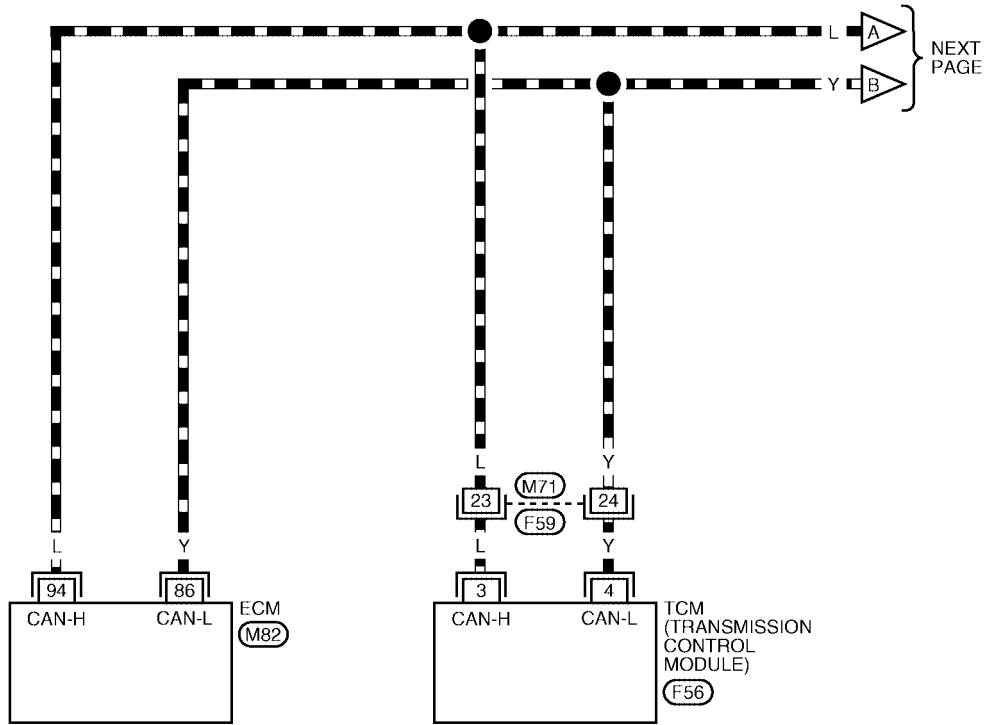
WKWA0469E

Wiring Diagram - CAN -

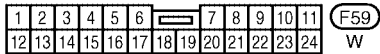
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LAN-CAN-37

— : DATA LINE



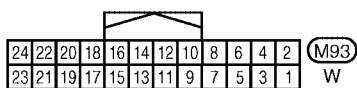
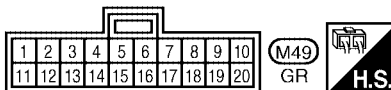
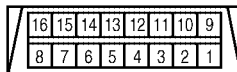
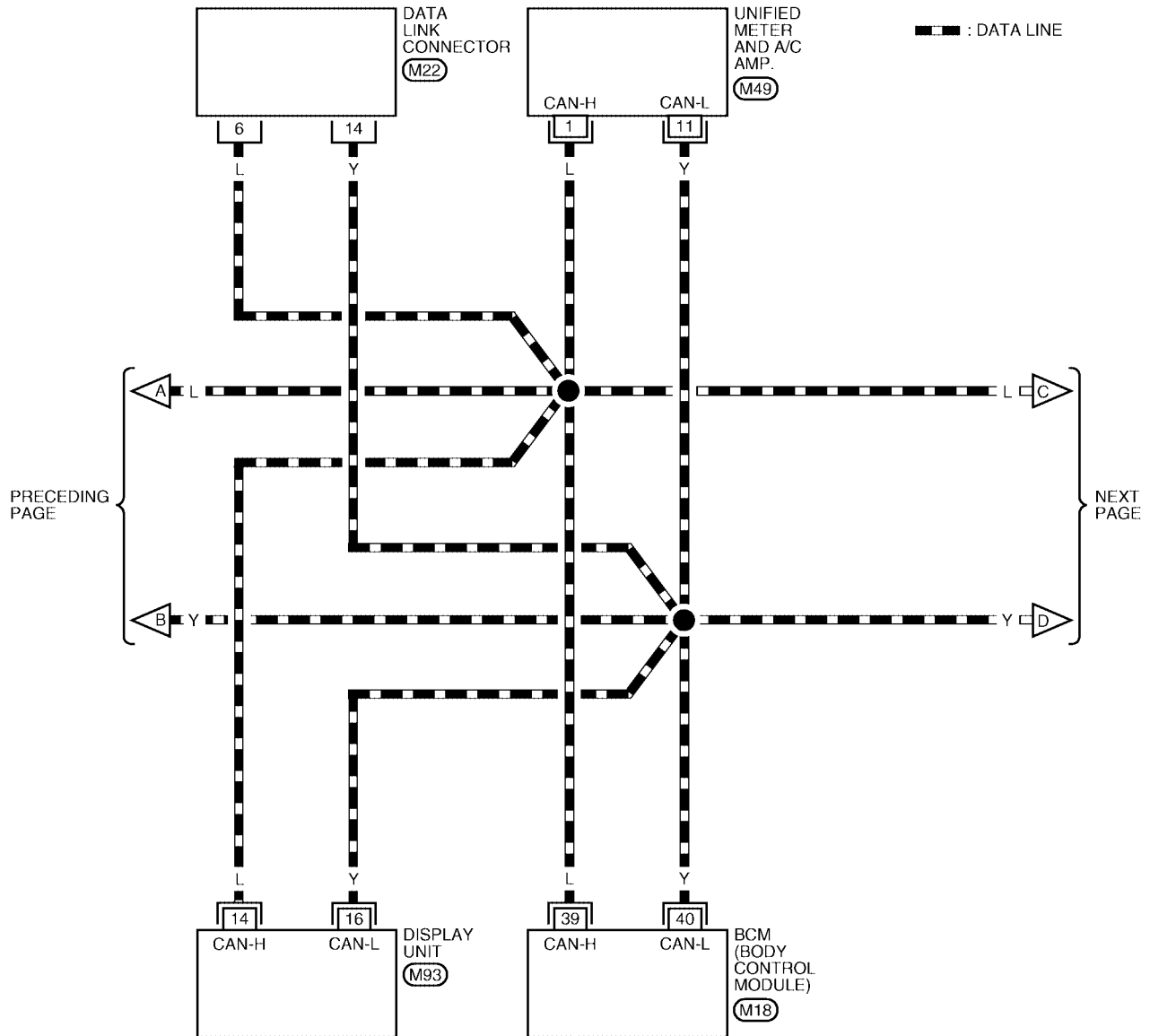
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REFER TO THE FOLLOWING.
 M82, F56 - ELECTRICAL
 UNITS

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LAN-CAN-38

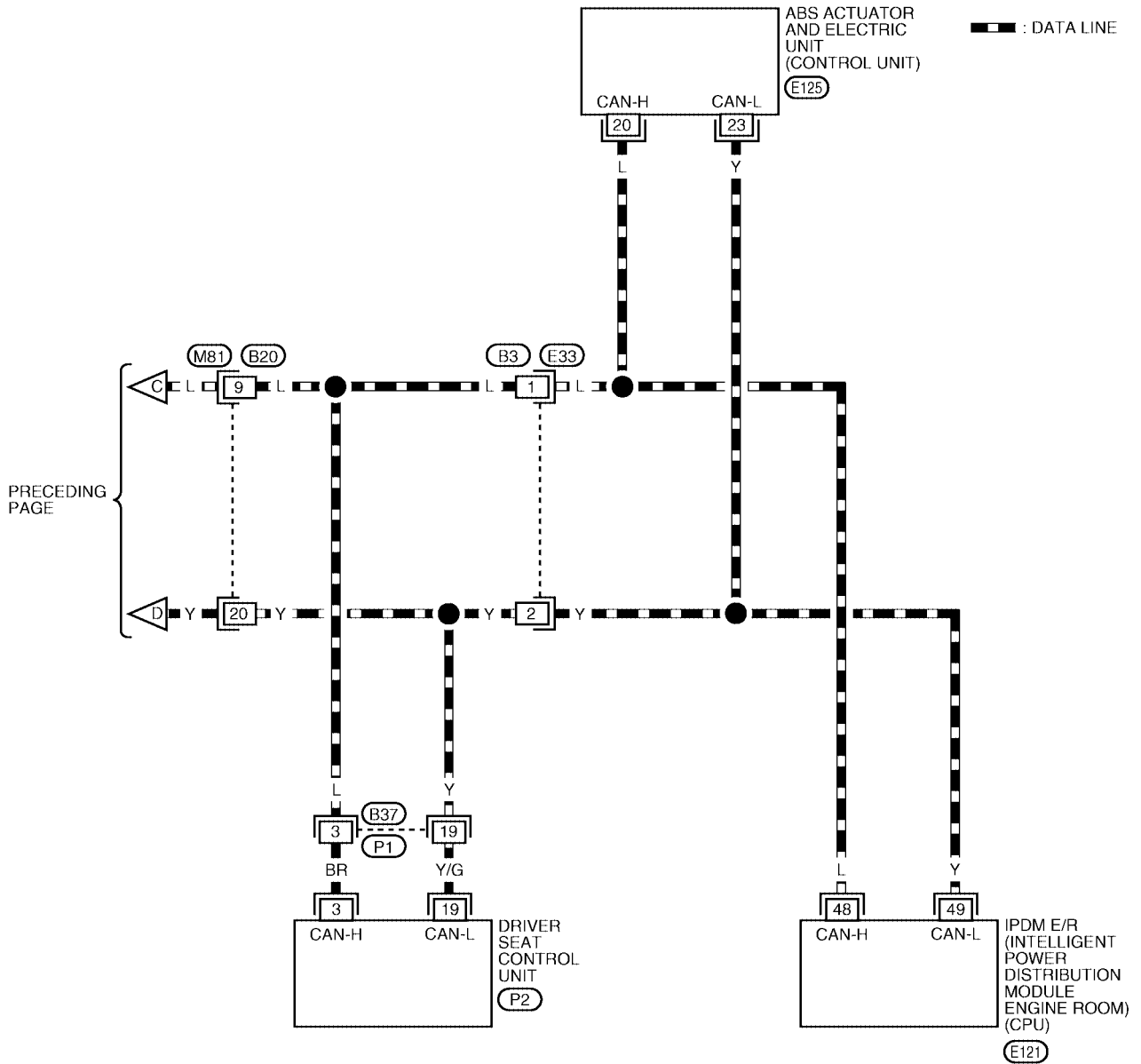


REFER TO THE FOLLOWING.

(M18) - ELECTRICAL UNITS

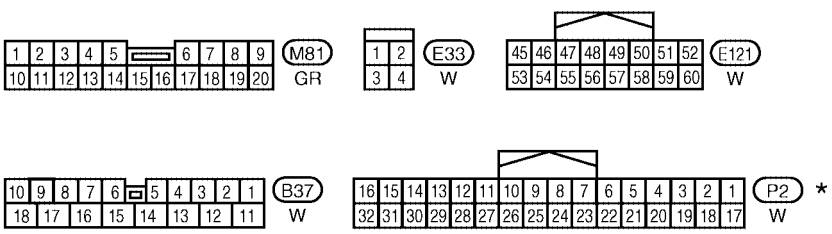
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LAN-CAN-39



PRECEDING PAGE

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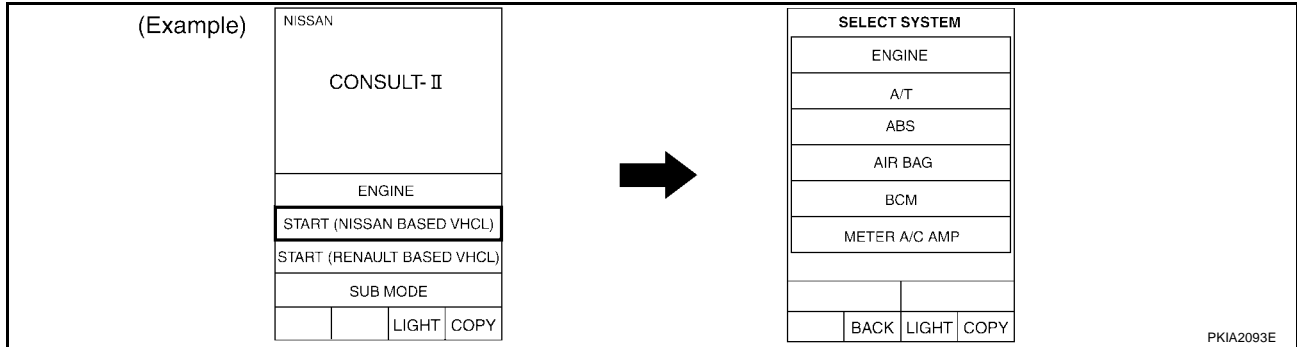


REFER TO THE FOLLOWING.
E125 - ELECTRICAL UNITS

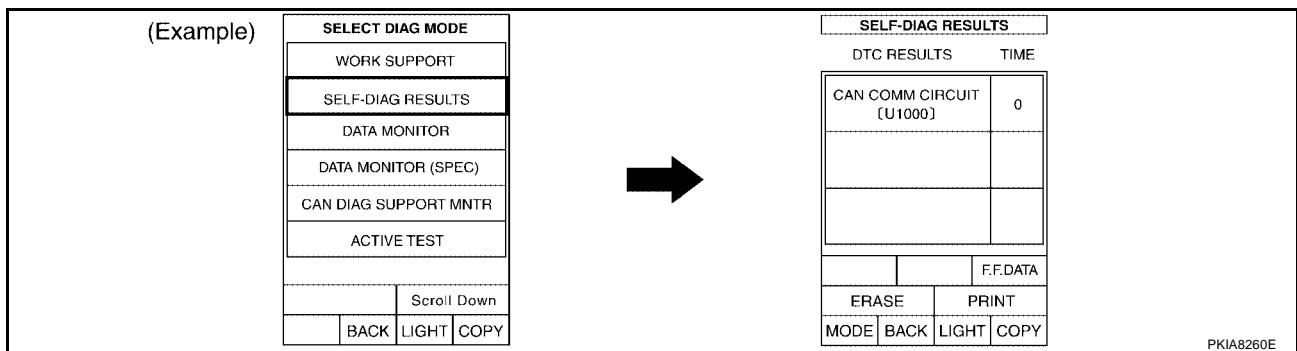
*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT" OF PG SECTION.

Work Flow

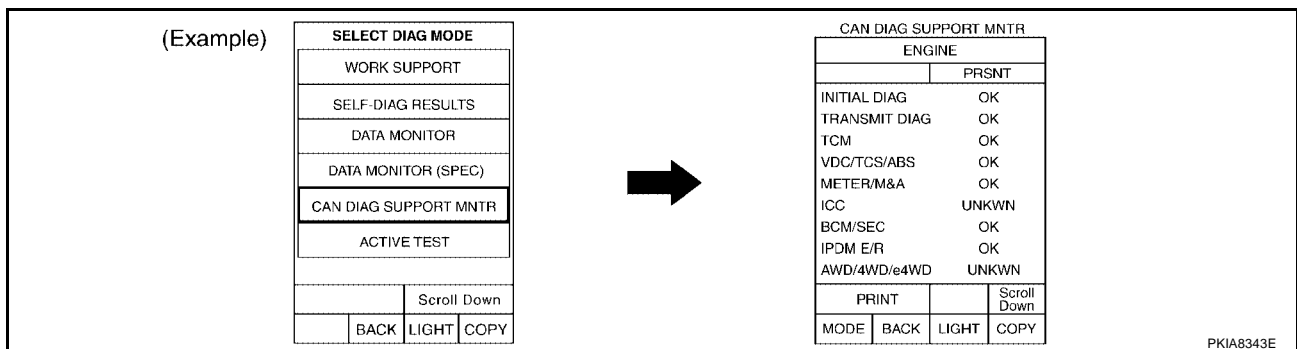
- When there are no indications of "TRANSMISSION", "METER A/C AMP", "BCM", "IPDM E/R" or "AUTO DRIVE POS." on "SELECT SYSTEM" display of CONSULT-II, print the "SELECT SYSTEM".



- Print all the data of "SELF-DIAG RESULTS" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Print all the data of "CAN DIAG SUPPORT MNTR" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Based on the indications of "SELECT SYSTEM" and the results of "CAN DIAG SUPPORT MNTR", put marks onto the items with "No indication", "NG", or "UNKWN" in the check sheet table.

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR									
	Initial diagnosis	Transmit diagnosis	ECM	TCM	DISPLAY	Receive diagnosis	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	CAN 2	-	CAN 7	-
METER A/C AMP	No indication	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-

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NOTE:

- If "NG" is displayed on "INITIAL DIAG (Initial diagnosis)" as "CAN DIAG SUPPORT MNTR" for the diagnosed control unit, replace the control unit.

CAN SYSTEM (TYPE 13)

[CAN]

-
- The “CAN DIAG SUPPORT MNTR” items which are not in check sheet table are not related to diagnostic procedure on service manual.
Therefore, it is not necessary to check the status of the “CAN DIAG SUPPORT MNTR” items not in check sheet table.
5. Mark the “NG” or “UNKWN” item of the check sheet table from the result of CAN DIAG SUPPORT MONITOR check sheet.
- NOTE:**
If “NG” is displayed on “CAN COMM” as “CAN DIAG SUPPORT MNTR” for the diagnosed control unit, replace the control unit.
6. According to the Check Sheet Results, start inspection.

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CAN SYSTEM (TYPE 13)

[CAN]

CHECK SHEET

Check sheet table

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

Symptoms:

Attach copy of
SELECT SYSTEM

Attach copy of
SELECT SYSTEM

Attach copy of
display unit
CAN DIAG MONITOR
check sheet

BKIA0078E

CAN SYSTEM (TYPE 13)

[CAN]

Attach copy of ENGINE SELF-DIAG RESULTS	Attach copy of TRANSMISSION SELF-DIAG RESULTS	Attach copy of BCM SELF-DIAG RESULTS	Attach copy of METER A/C AMP SELF-DIAG RESULTS
Attach copy of ABS SELF-DIAG RESULTS	Attach copy of AUTO DRIVE POS. SELF-DIAG RESULTS	Attach copy of IPDM E/R SELF-DIAG RESULTS	
Attach copy of ENGINE CAN DIAG SUPPORT MNTR	Attach copy of TRANSMISSION CAN DIAG SUPPORT MNTR	Attach copy of BCM CAN DIAG SUPPORT MNTR	Attach copy of METER A/C AMP CAN DIAG SUPPORT MNTR
Attach copy of ABS CAN DIAG SUPPORT MNTR	Attach copy of AUTO DRIVE POS. CAN DIAG SUPPORT MNTR	Attach copy of IPDM E/R CAN DIAG SUPPORT MNTR	

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CAN SYSTEM (TYPE 13)

[CAN]

CHECK SHEET RESULTS

Case 1

Replace ECM.

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				Receive diagnosis						
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	✓	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

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SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				Receive diagnosis						
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2137E

Case 2

Replace TCM.

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				Receive diagnosis						
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2138E

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				Receive diagnosis						
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	✓	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2139E

CAN SYSTEM (TYPE 13)

[CAN]

Case 3

Replace display unit.

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/ M&A	BCM/SEC	VDC/CS/ ABS	
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2140E

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/ M&A	BCM/SEC	VDC/CS/ ABS	
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2141E

Case 4

Replace BCM.

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/ M&A	BCM/SEC	VDC/CS/ ABS	
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2142E

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/ M&A	BCM/SEC	VDC/CS/ ABS	
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2143E

CAN SYSTEM (TYPE 13)

[CAN]

Case 5

Replace unified meter and A/C amp.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN		UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN			-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2		CAN 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN			UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-			
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN		

WKIA2144E

Case 6

Replace driver seat control unit.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN		UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN			-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2		CAN 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN			UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-			
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN		

WKIA2145E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN		UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN			-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2		CAN 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN			UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-			
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN		

WKIA2146E

Case 7

Replace ABS actuator and electric unit (control unit).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN		UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN			-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2		CAN 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN			UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-			
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN		

WKIA2147E

CAN SYSTEM (TYPE 13)

[CAN]

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				ECM	TCM	DISPLAY	Receive diagnosis METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2148E

Case 8

Replace IPDM E/R.

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				ECM	TCM	DISPLAY	Receive diagnosis METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2149E

Case 9

Check harness between TCM and data link connector. Refer to [LAN-316](#).

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				ECM	TCM	DISPLAY	Receive diagnosis METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2150E

Case 10

Check harness between data link connector and driver seat control unit. Refer to [LAN-316](#).

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				ECM	TCM	DISPLAY	Receive diagnosis METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2151E

CAN SYSTEM (TYPE 13)

[CAN]

Case 11

Check harness between driver seat control unit and ABS actuator and electric unit (control unit). Refer to [LAN-317](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2152E

Case 12

Check ECM circuit. Refer to [LAN-317](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE		NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2154E

Case 13

Check TCM circuit. Refer to [LAN-318](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE		NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2155E

Case 14

Check display unit circuit. Refer to [LAN-318](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
Display unit		CAN COMM	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2156E

CAN SYSTEM (TYPE 13)

[CAN]

Case 15

Check data link connector circuit. Refer to [LAN-319](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication ✓	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication ✓	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication ✓	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication ✓	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication ✓		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2157E

Case 16

Check BCM circuit. Refer to [LAN-319](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2159E

Case 17

Check unified meter and A/C amp. circuit. Refer to [LAN-320](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication ✓	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2160E

Case 18

Check driver seat control unit circuit. Refer to [LAN-320](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
AUTO DRIVE POS.	No indication ✓	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2161E

Case 19

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-321](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	ME-TR/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2162E

Case 20

Check IPDM E/R circuit. Refer to [LAN-321](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	ME-TR/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2163E

Case 21

Check CAN communication circuit. Refer to [LAN-322](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	ME-TR/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
Display unit		CAN COMM	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2164E

Case 22

Check IPDM E/R Ignition relay circuit. Refer to [LAN-323](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	ME-TR/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2165E

CAN SYSTEM (TYPE 13)

[CAN]

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	ME-THR/ M&A	BCM/SEC	VDC/CS/ ABS	IPDM E/R
ENGINE		NG	UNKWN	-	✓	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication		UNKWN	UNKWN	✓	UNKWN	-	UNKWN	✓	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	✓	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2166E

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LAN

Circuit Check Between TCM and Data Link Connector**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

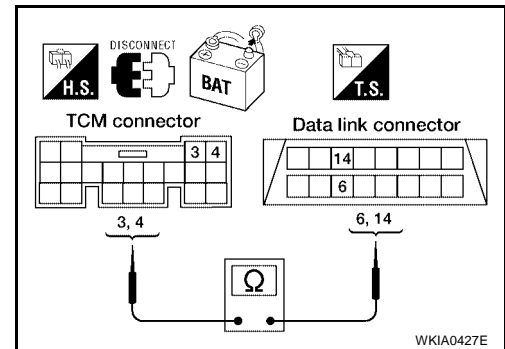
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between TCM connector F56 terminals 3 (L), 4 (Y) and data link connector M22 terminals 6 (L), 14 (Y).

- 3 (L) - 6 (L) : Continuity should exist.**
4 (Y) - 14 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-304, "Work Flow"](#)
 NG >> Repair harness.

**Circuit Check Between Driver Seat Control Unit and Data Link Connector****1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

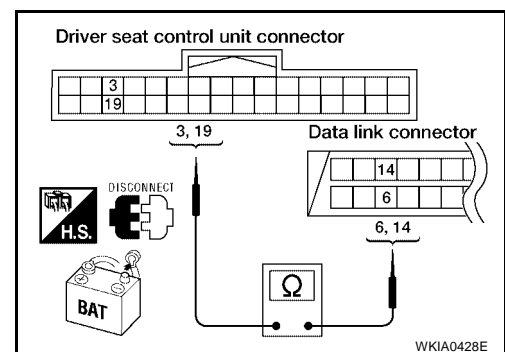
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and data link connector M22 terminals 6 (L), 14 (Y).

- 3 (BR) - 6 (L) : Continuity should exist.**
19 (Y/G) - 14 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-304](#) .
 NG >> Repair harness.



Circuit Check Between Driver Seat Control Unit and ABS Actuator and Electric Unit (Control Unit)

EKS00A1S

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2, ABS actuator and electric unit (control unit) connector E125 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

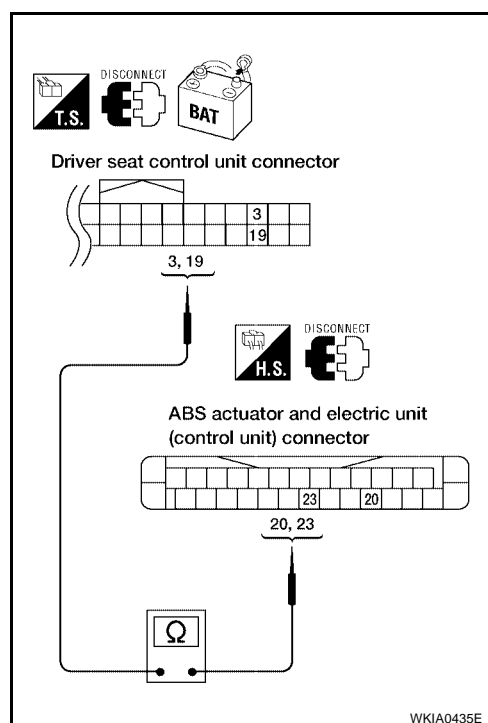
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and ABS actuator and electric unit (control unit) connector E125 terminals 20 (L), 23 (Y).

- 3 (BR) - 20 (L) : Continuity should exist.**
19 (Y/G) - 23 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-304](#).
 NG >> Repair harness.



ECM Circuit Check

EKS00A1T

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

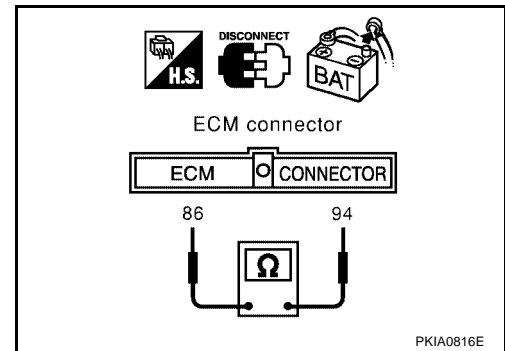
Check resistance between ECM connector M82 terminal 94 (L) and terminal 86 (Y).

94 (L) - 86 (Y)

: Approx. 108 - 132Ω

OK or NG

- OK >> Replace ECM.
 NG >> Repair harness between ECM connector M82 and TCM connector F56.



EKS00A1U

TCM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

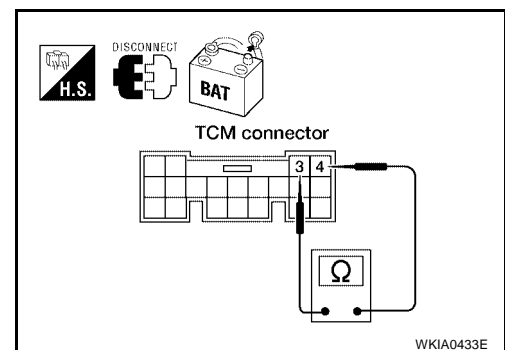
Check resistance between TCM connector F56 terminal 3 (L) and terminal 4 (Y).

3 (L) - 4 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace TCM.
 NG >> Repair harness between TCM connector F56 and ECM connector M82.



EKS00A1V

Display Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect display unit connector M93.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

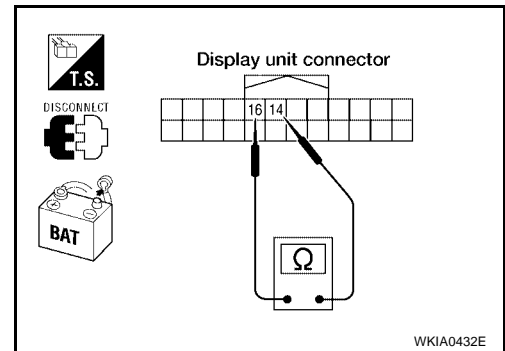
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between display unit connector M93 terminal 25 (L) and terminal 26 (Y).

14 (L) - 16 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace display unit.
 NG >> Repair harness between display unit connector M93 and data link connector M22.



Data Link Connector Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Check data link connector M22 terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

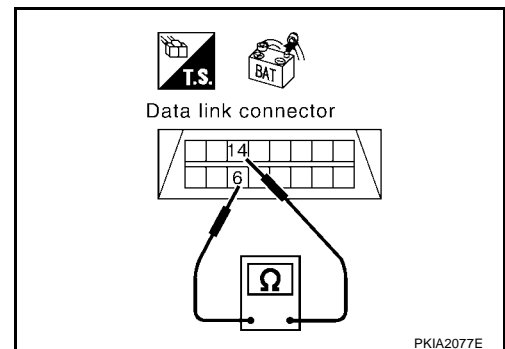
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector M22 terminal 6 (L) and terminal 14 (Y).

6 (L) - 14 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-304](#).
 NG >> Repair harness between data link connector M22 and BCM connector M18.



BCM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect BCM connector M18.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

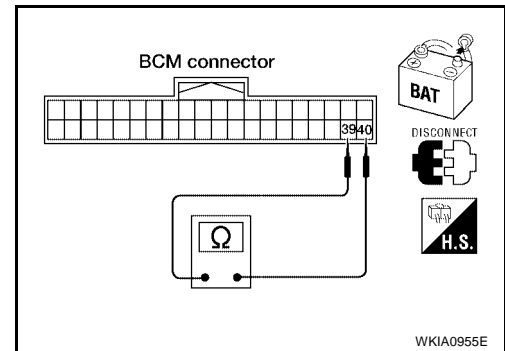
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between BCM connector M18 terminal 39 (L) and terminal 40 (Y).

39 (L) - 40 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace BCM.
 NG >> Repair harness between BCM connector M18 and data link connector M22.



EKS00A1Y

Unified Meter and A/C Amp. Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect unified meter and A/C amp. connector M49.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

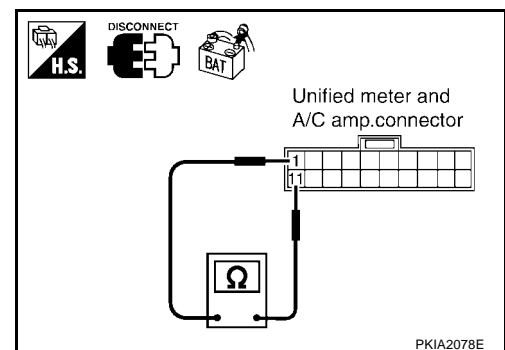
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between unified meter and A/C amp. connector M49 terminal 1 (L) and terminal 11 (Y).

1 (L) - 11 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace unified meter and A/C amp.
 NG >> Repair harness between unified meter and A/C amp. connector M49 and data link connector M22.



EKS00A1Z

Driver Seat Control Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

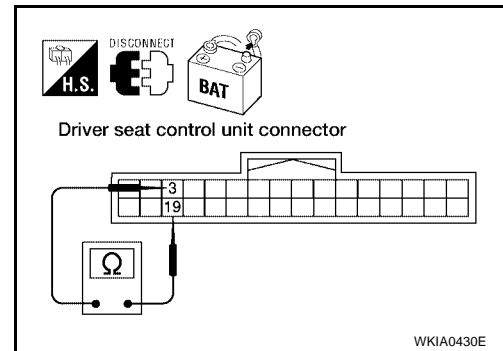
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between driver seat control unit connector P2 terminal 3 (BR) and terminal 19 (Y/G).

3 (BR) - 19 (Y/G) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace driver seat control unit.
 NG >> Repair harness between driver seat control unit connector P2 and data link connector M22.



ABS Actuator and Electric Unit (Control Unit) Circuit Check

EKS00A20

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ABS actuator and electric unit (control unit) connector E125.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

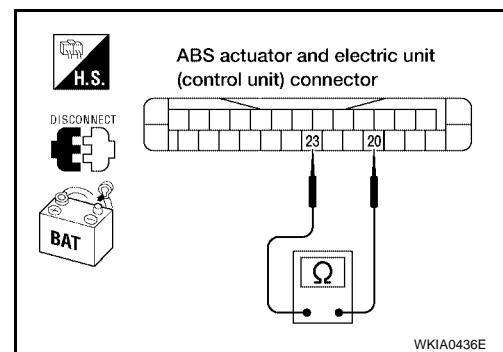
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between ABS actuator and electric unit (control unit) connector E125 terminal 20 (L) and terminal 23 (Y).

20 (L) - 23 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace ABS actuator and electric unit (control unit).
 NG >> Repair harness between ABS actuator and electric unit (control unit) connector E125 and IPDM E/R connector E121.



EKS00A21

IPDM E/R Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect IPDM E/R connector E121.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

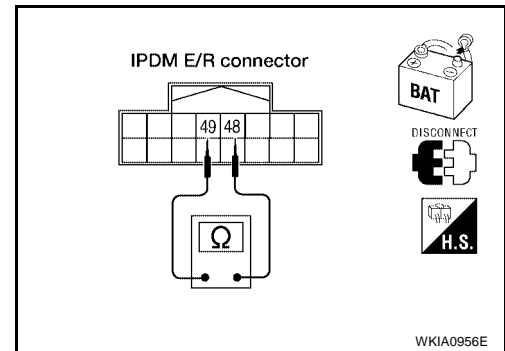
Check resistance between IPDM E/R connector E121 terminal 48 (L) and terminal 49 (Y).

48 (L) - 49 (Y)

: Approx. 108 - 132Ω

OK or NG

- OK >> Replace IPDM E/R.
 NG >> Repair harness between IPDM E/R connector E121 and ABS actuator and electric unit (control unit) connector E125.



EKS00A22

CAN Communication Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect the following module and control unit connectors and check terminals for deformation, disconnection, looseness or damage.
 - ECM
 - TCM (Transmission control module)
 - Display unit
 - BCM (Body control module)
 - Unified meter and A/C amp.
 - Driver seat control unit
 - ABS actuator and electric unit (control unit)
 - IPDM E/R (Intelligent power distribution module engine room)

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR SHORTED CIRCUITS

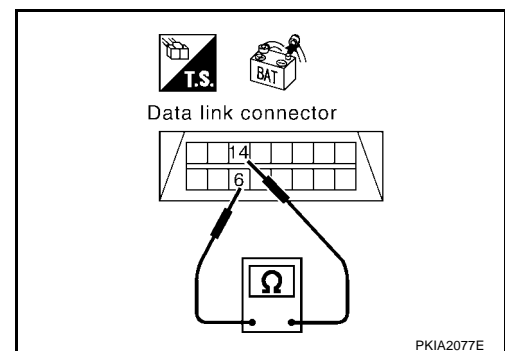
With all module and control unit connectors disconnected, check continuity between data link connector M22 terminals 6 (L) and 14 (Y).

6 (L) - 14 (Y)

: Continuity should not exist.

OK or NG

- OK >> GO TO 3.
 NG >> Repair the harness.



3. CHECK HARNESS FOR SHORT TO GROUND

Check continuity between data link connector M22 terminals 6 (L), 14 (Y) and ground.

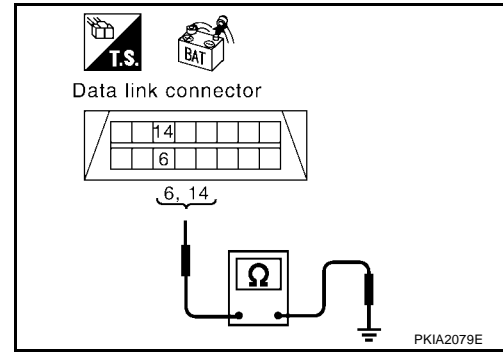
6 (L) - Ground : Continuity should not exist.

14 (Y) - Ground : Continuity should not exist.

OK or NG

OK >> Check ECM and IPDM E/R. Refer to [LAN-323, "Component Inspection"](#).

NG >> Repair the harness.



IPDM E/R Ignition Relay Circuit Check

EKS00A23

Check the following. If no problem is found, replace the IPDM E/R.

- IPDM E/R power supply circuit. Refer to [PG-24, "IPDM E/R Power/Ground Circuit Inspection"](#).
- Ignition power supply circuit. Refer to [PG-11, "IGNITION POWER SUPPLY — IGNITION SW. IN ON AND/OR START"](#).

Component Inspection

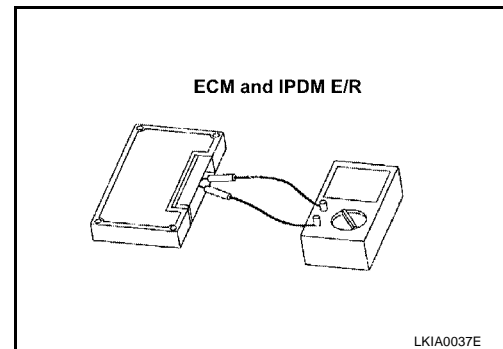
EKS00A24

ECM/IPDM E/R INTERNAL CIRCUIT INSPECTION

- Remove ECM and IPDM E/R from vehicle.
- Check resistance between ECM terminals 94 and 86.

94 - 86 : Approx. 108 - 132Ω
- Check resistance between IPDM E/R terminals 48 and 49.

48 - 49 : Approx. 108 - 132Ω



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CAN SYSTEM (TYPE 14)

PFP:23710

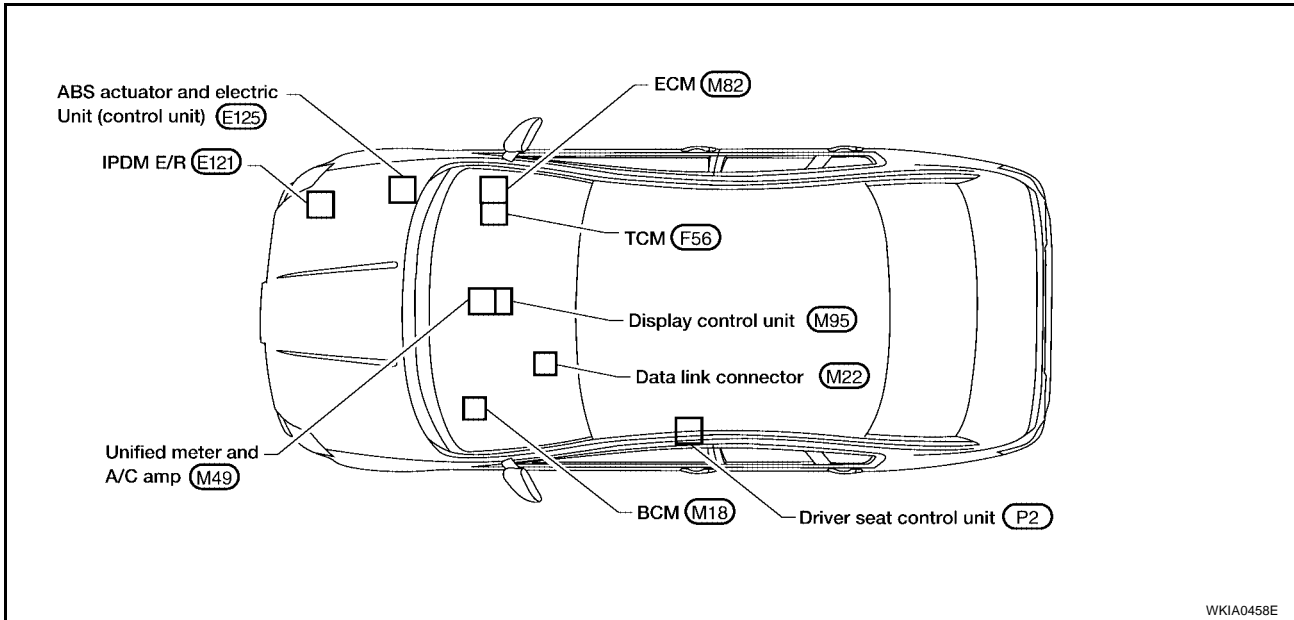
System Description

EKS00A11

CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H line, CAN L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

Component Parts and Harness Connector Location

EKS00A12

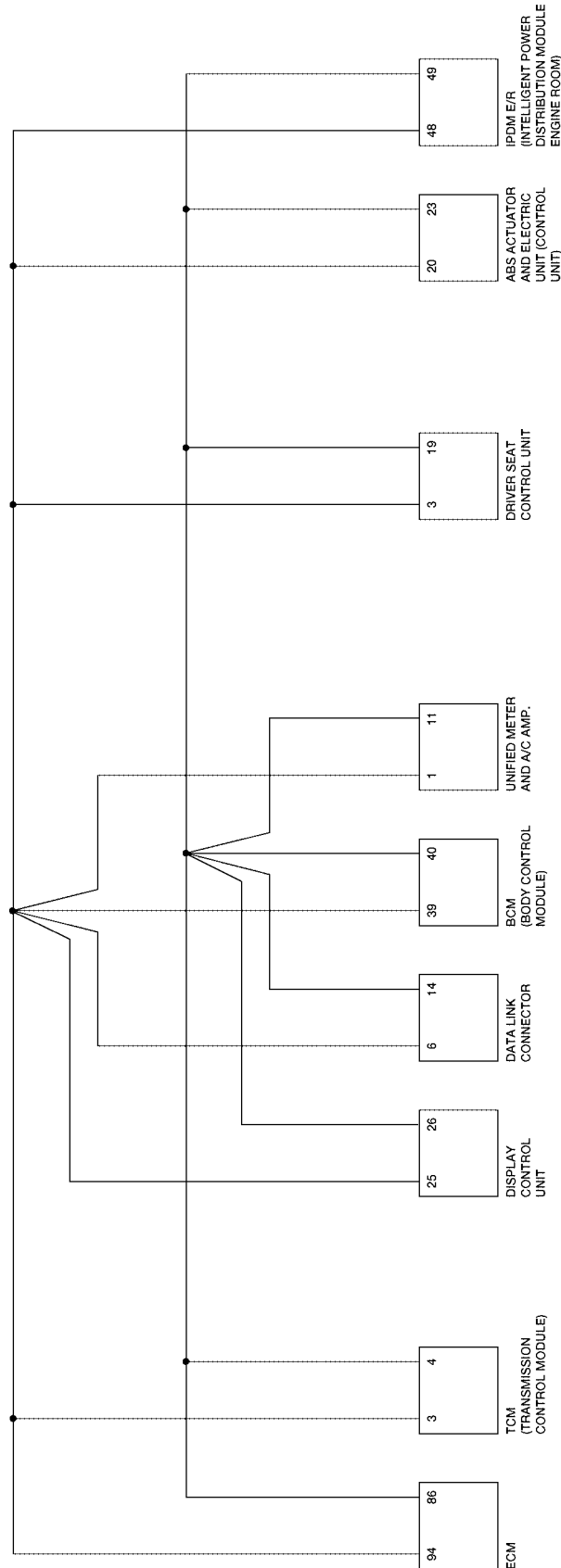


CAN SYSTEM (TYPE 14)

[CAN]

EKS00A13

Schematic



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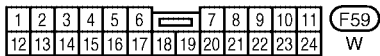
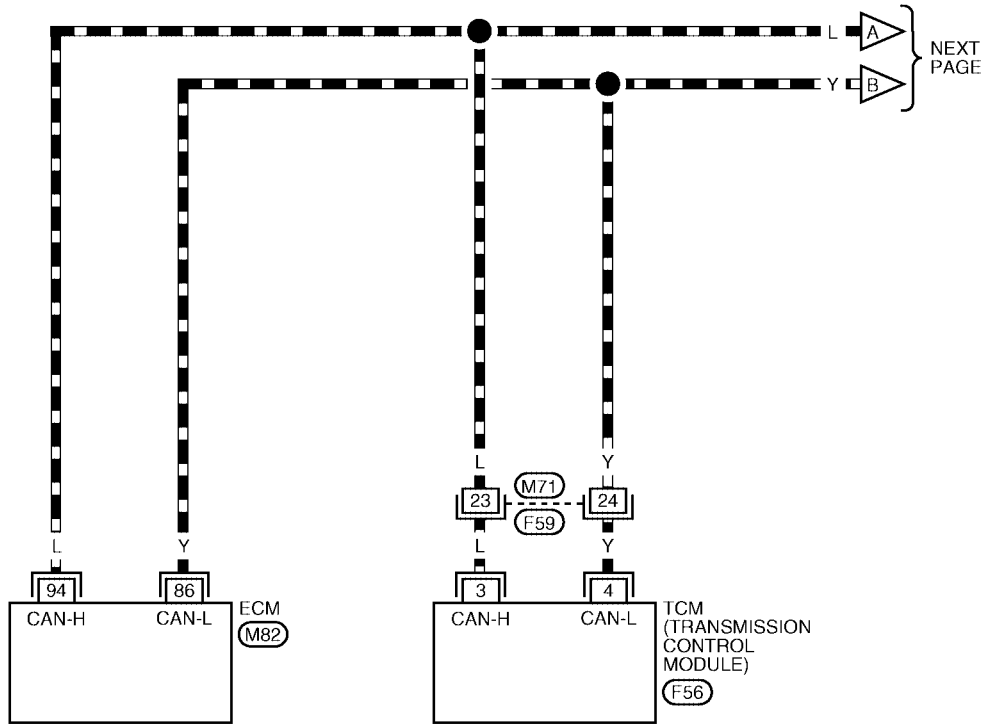
LAN

WKWA0470E

Wiring Diagram - CAN -

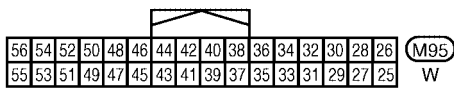
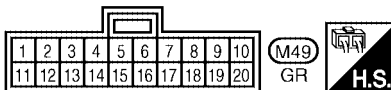
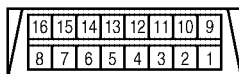
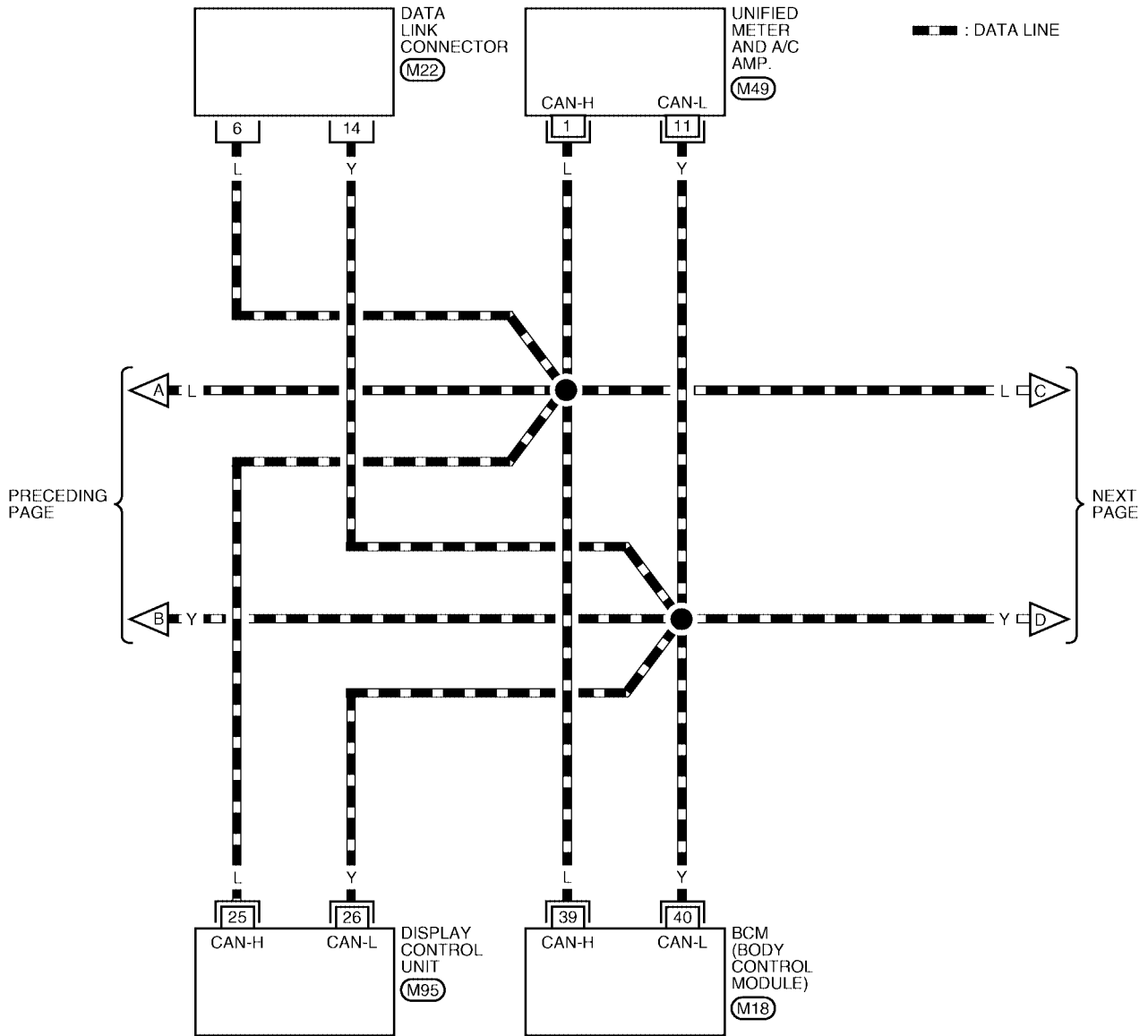
LAN-CAN-40

— : DATA LINE



REFER TO THE FOLLOWING.
(M82), (F56) - ELECTRICAL
UNITS

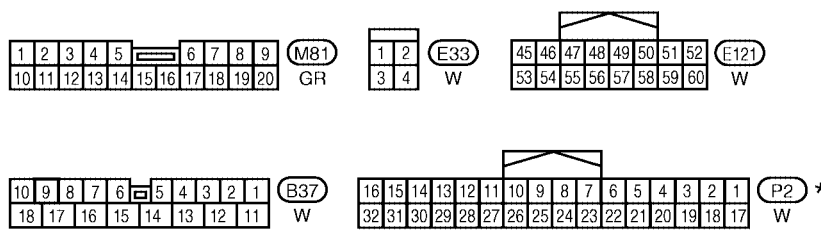
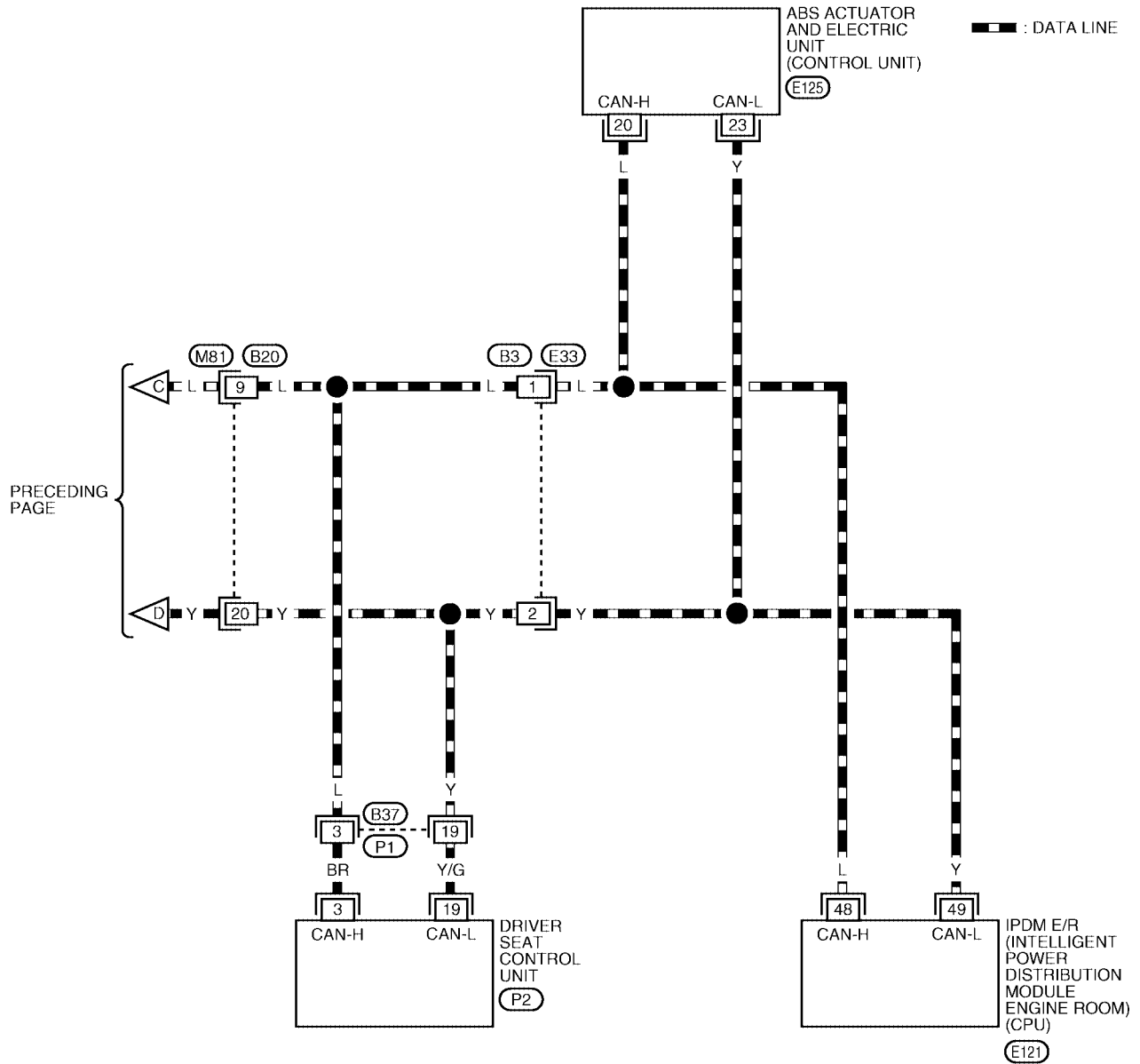
LAN-CAN-41



REFER TO THE FOLLOWING.
 (M18) - ELECTRICAL UNITS

BKWA0238E

LAN-CAN-42

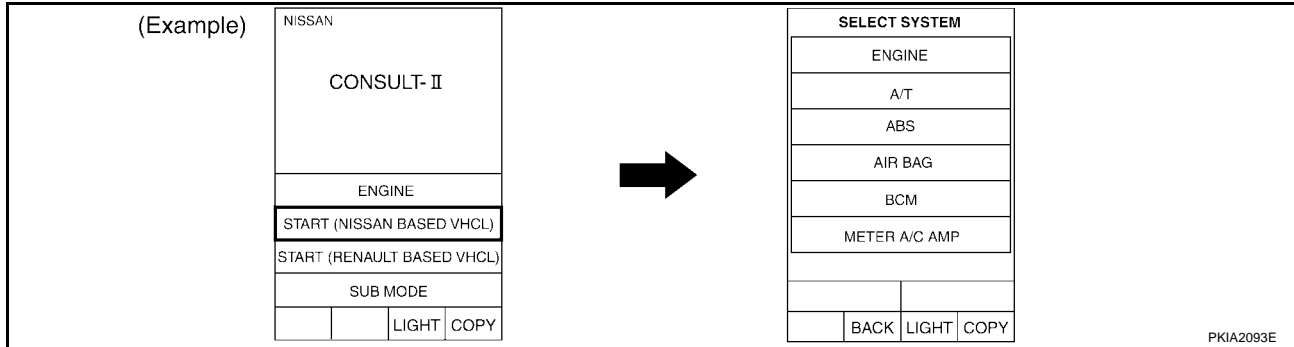


REFER TO THE FOLLOWING.
E125 - ELECTRICAL UNITS

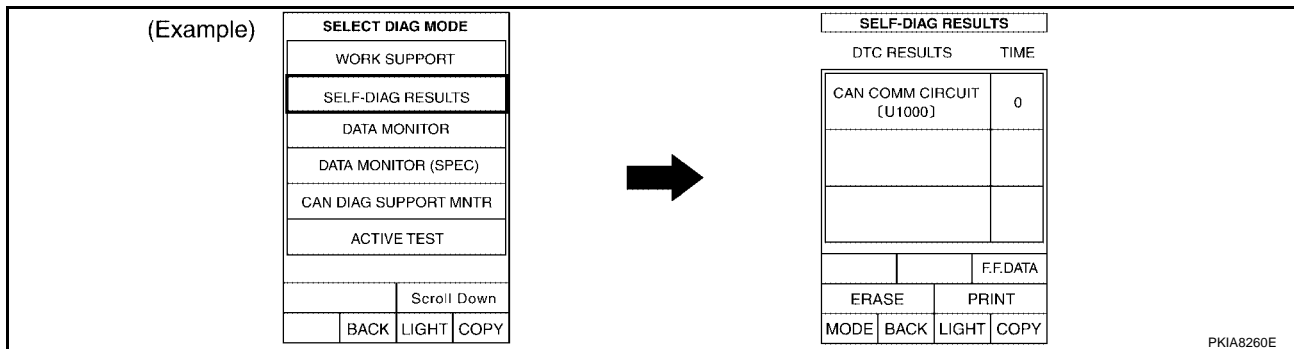
*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT" OF PG SECTION.

Work Flow

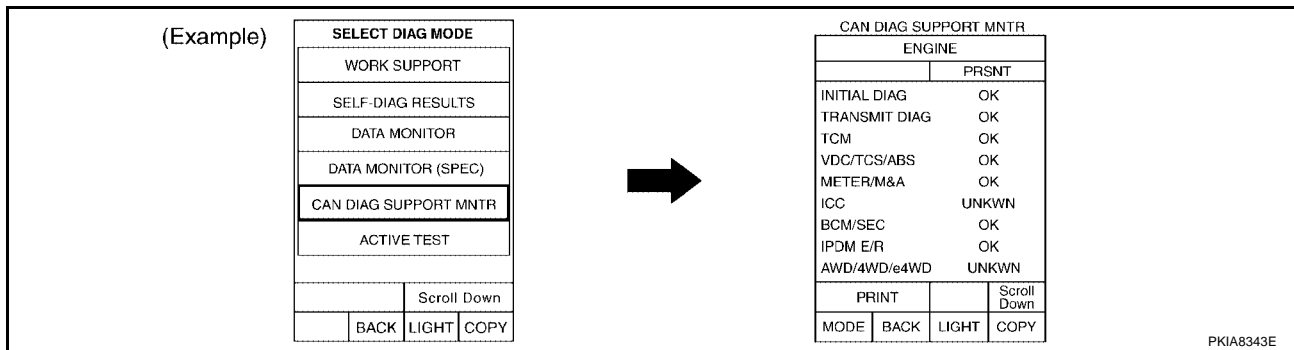
- When there are no indications of "TRANSMISSION", "METER A/C AMP", "BCM", "IPDM E/R" or "AUTO DRIVE POS." on "SELECT SYSTEM" display of CONSULT-II, print the "SELECT SYSTEM".



- Print all the data of "SELF-DIAG RESULTS" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Print all the data of "CAN DIAG SUPPORT MNTR" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Based on the indications of "SELECT SYSTEM" and the results of "CAN DIAG SUPPORT MNTR", put marks onto the items with "No indication", "NG", or "UNKWN" in the check sheet table.

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR									
	Initial diagnosis	Transmit diagnosis	Receive diagnosis							IPDM E/R
			ECM	TCM	DISPLAY	ME-TRU M&A	BCM/SEC	VDC/TCS/ABS		
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

BKIA0064E

NOTE:

- If "NG" is displayed on "INITIAL DIAG (Initial diagnosis)" as "CAN DIAG SUPPORT MNTR" for the diagnosed control unit, replace the control unit.

CAN SYSTEM (TYPE 14)

[CAN]

-
- The “CAN DIAG SUPPORT MNTR” items which are not in check sheet table are not related to diagnostic procedure on service manual.
Therefore, it is not necessary to check the status of the “CAN DIAG SUPPORT MNTR” items not in check sheet table.

5. Check CAN communication line of the navigation system.
6. Mark the “NG” or “UNKWN” item of the check sheet table from the result of CAN DIAG SUPPORT MONITOR check sheet.

NOTE:

If “NG” is displayed on “CAN COMM” as “CAN DIAG SUPPORT MNTR” for the diagnosed control unit, replace the control unit.

7. According to the Check Sheet Results, start inspection.

CAN SYSTEM (TYPE 14)

[CAN]

CHECK SHEET

Check sheet table

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

Symptoms:

Attach copy of
SELECT SYSTEM

Attach copy of
SELECT SYSTEM

Attach copy of
display unit
CAN DIAG MONITOR
check sheet

A
B
C
D
E
F
G
H
I
J
LAN
L
M

BKIA0079E

CAN SYSTEM (TYPE 14)

[CAN]

Attach copy of
ENGINE
SELF-DIAG RESULTS

Attach copy of
TRANSMISSION
SELF-DIAG RESULTS

Attach copy of
BCM
SELF-DIAG RESULTS

Attach copy of
METER A/C AMP
SELF-DIAG RESULTS

Attach copy of
ABS
SELF-DIAG RESULTS

Attach copy of
AUTO DRIVE POS.
SELF-DIAG RESULTS

Attach copy of
IPDM E/R
SELF-DIAG RESULTS

Attach copy of
ENGINE
CAN DIAG SUPPORT
MNTR

Attach copy of
TRANSMISSION
CAN DIAG SUPPORT
MNTR

Attach copy of
BCM
CAN DIAG SUPPORT
MNTR

Attach copy of
METER A/C AMP
CAN DIAG SUPPORT
MNTR

Attach copy of
ABS
CAN DIAG SUPPORT
MNTR

Attach copy of
AUTO DRIVE POS.
CAN DIAG SUPPORT
MNTR

Attach copy of
IPDM E/R
CAN DIAG SUPPORT
MNTR

BKIA0085E

CAN SYSTEM (TYPE 14)

[CAN]

CHECK SHEET RESULTS

Case 1

Replace ECM.

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNT R						
				Receive diagnosis						
				ECM	TCM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	✓	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2170E

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNT R						
				Receive diagnosis						
				ECM	TCM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	✓	-	✓	✓	-	✓
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2171E

Case 2

Replace TCM.

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNT R						
				Receive diagnosis						
				ECM	TCM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	✓	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	✓	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	✓	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	✓	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2173E

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNT R						
				Receive diagnosis						
				ECM	TCM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	✓	-	-	✓	-	-	-
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2174E

CAN SYSTEM (TYPE 14)

[CAN]

Case 3

Replace display control unit.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	✓ CAN COMM	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2175E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display control unit		CAN COMM	CAN CIRC 1	✓ CAN CIRC 3	-	-	✓ CAN CIRC 5	✓ CAN CIRC 2	-	✓ CAN CIRC 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2176E

Case 4

Replace BCM.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication ✓	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2178E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	-
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	✓ UNKWN	-	-	✓ UNKWN	-	-	✓ UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2179E

CAN SYSTEM (TYPE 14)

[CAN]

Case 5

Replace unified meter and A/C amp.

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	ME-TR/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2180E

Case 6

Replace driver seat control unit.

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	ME-TR/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2182E

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	ME-TR/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2183E

Case 7

Replace ABS actuator and electric unit (control unit).

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	ME-TR/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2185E

CAN SYSTEM (TYPE 14)

[CAN]

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				ECM	TCM	DISPLAY	Receive diagnosis METER/ M&A	BCM/SEC	VDC/TC/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2186E

Case 8

Replace IPDM E/R.

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				ECM	TCM	DISPLAY	Receive diagnosis METER/ M&A	BCM/SEC	VDC/TC/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2188E

Case 9

Check harness between TCM and data link connector. Refer to [LAN-341](#)

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				ECM	TCM	DISPLAY	Receive diagnosis METER/ M&A	BCM/SEC	VDC/TC/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2189E

Case 10

Check harness between data link connector and driver seat control unit. Refer to [LAN-341](#).

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				ECM	TCM	DISPLAY	Receive diagnosis METER/ M&A	BCM/SEC	VDC/TC/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2190E

CAN SYSTEM (TYPE 14)

[CAN]

Case 11

Check harness between driver seat control unit and ABS actuator and electric unit (control unit). Refer to [LAN-342](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2192E

Case 12

Check ECM circuit. Refer to [LAN-342](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2193E

Case 13

Check TCM circuit. Refer to [LAN-343](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2195E

Case 14

Check display control unit circuit. Refer to [LAN-343](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2196E

CAN SYSTEM (TYPE 14)

[CAN]

Case 15

Check data link connector circuit. Refer to [LAN-344](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	ECM			Receive diagnosis			IPDM E/R
				TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS		
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	
TRANSMISSION	No indication ✓	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7	
METER A/C AMP	No indication ✓	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	
BCM	No indication ✓	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	
AUTO DRIVE POS	No indication ✓	NG	UNKWN	-	UNKWN	-	UNKWN	-	-	
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	
IPDM E/R	No indication ✓	-	UNKWN	UNKWN	-	-	UNKWN	-	-	

WKIA2197E

Case 16

Check BCM circuit. Refer to [LAN-344](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	ECM			Receive diagnosis			IPDM E/R
				TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS		
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN ✓	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7	
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN ✓	UNKWN	UNKWN	
BCM	No indication ✓	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN ✓	-	
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN ✓	-	-	

WKIA2198E

Case 17

Check unified meter and A/C amp. circuit. Refer to [LAN-345](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	ECM			Receive diagnosis			IPDM E/R
				TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS		
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN ✓	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7	
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN ✓	UNKWN	UNKWN	
BCM	No indication ✓	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN ✓	-	
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN ✓	-	-	

WKIA2199E

Case 18

Check driver seat control unit circuit. Refer to [LAN-345](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	ECM			Receive diagnosis			IPDM E/R
				TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS		
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7	
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	
AUTO DRIVE POS	No indication ✓	NG	UNKWN	-	UNKWN	-	UNKWN	-	-	
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-	

WKIA2201E

CAN SYSTEM (TYPE 14)

[CAN]

Case 19

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-346](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	ME-TH-R/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	✓	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	✓	✓	-	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2202E

Case 20

Check IPDM E/R circuit. Refer to [LAN-346](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	ME-TH-R/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	✓
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	✓
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	✓
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	✓
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	✓
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2204E

Case 21

Check CAN communication circuit. Refer to [LAN-347](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	ME-TH-R/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE	-	NG	✓	-	✓	-	✓	✓	-	✓
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	✓
Display control unit		CAN COMM	✓	✓	-	-	✓	✓	-	✓
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	✓	✓	-	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2205E

Case 22

Check IPDM E/R Ignition relay circuit. Refer to [LAN-348](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	ME-TH-R/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	✓	-	-	✓	-	-	-
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	✓	-	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2206E

CAN SYSTEM (TYPE 14)

[CAN]

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/ M&A	BCM/SEC	VDC/CS/ ABS	
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN			
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2		CAN CIRC 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN			UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	-	-	-			
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN		

WKIA2208E

Circuit Check Between TCM and Data Link Connector**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

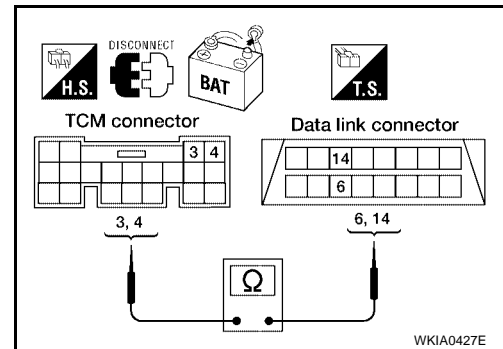
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between TCM connector F56 terminals 3 (L), 4 (Y) and data link connector M22 terminals 6 (L), 14 (Y).

- 3 (L) - 6 (L) : Continuity should exist.**
4 (Y) - 14 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-329, "Work Flow"](#).
 NG >> Repair harness.

**Circuit Check Between Driver Seat Control Unit and Data Link Connector****1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

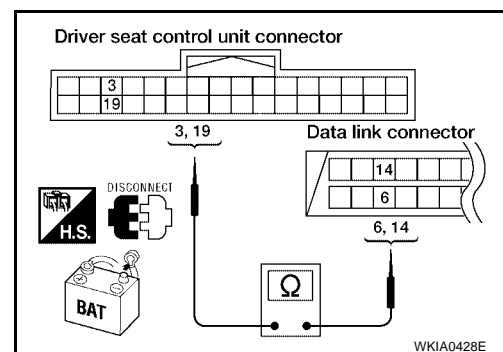
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and data link connector M22 terminals 6 (L), 14 (Y).

- 3 (BR) - 6 (L) : Continuity should exist.**
19 (Y/G) - 14 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-329](#).
 NG >> Repair harness.



Circuit Check Between Driver Seat Control Unit and ABS Actuator and Electric Unit (Control Unit)

EKS00A18

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2, ABS actuator and electric unit (control unit) connector E125 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

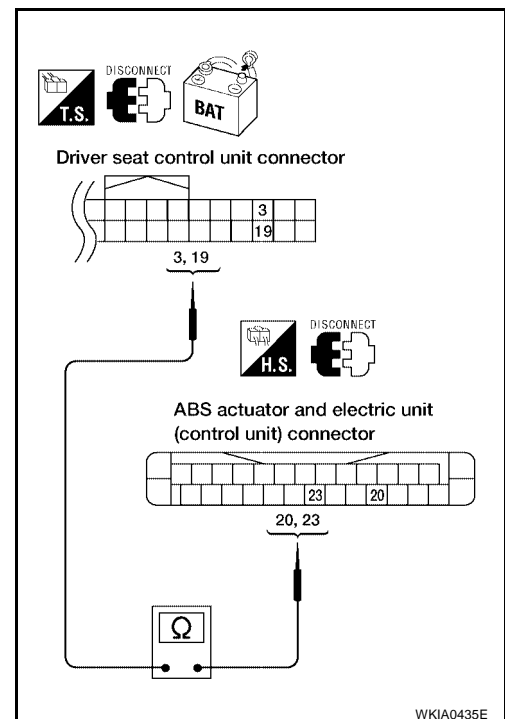
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and ABS actuator and electric unit (control unit) connector E125 terminals 20 (L), 23 (Y).

- 3 (BR) - 20 (L) : Continuity should exist.**
19 (Y/G) - 23 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-329](#).
 NG >> Repair harness.



ECM Circuit Check

EKS00A19

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

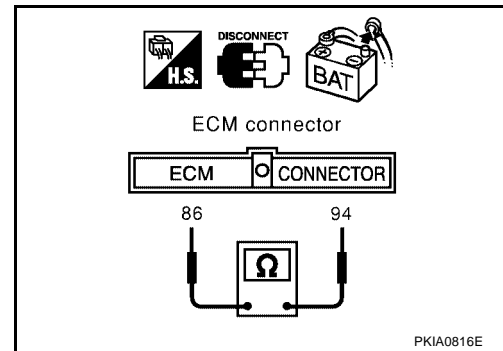
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between ECM connector M82 terminal 94 (L) and terminal 86 (Y).

94 (L) - 86 (Y) : Approx. 108 - 132Ω

OK or NG

- OK >> Replace ECM.
 NG >> Repair harness between ECM connector M82 and TCM connector F56.



EKS00A1A

TCM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

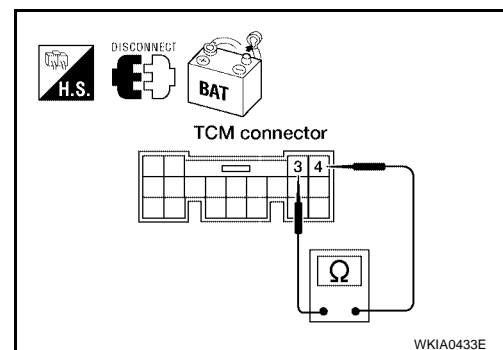
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between TCM connector F56 terminal 3 (L) and terminal 4 (Y).

3 (L) - 4 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace TCM.
 NG >> Repair harness between TCM connector F56 and ECM connector M82.



EKS00A1B

Display Control Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect display control unit connector M95.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

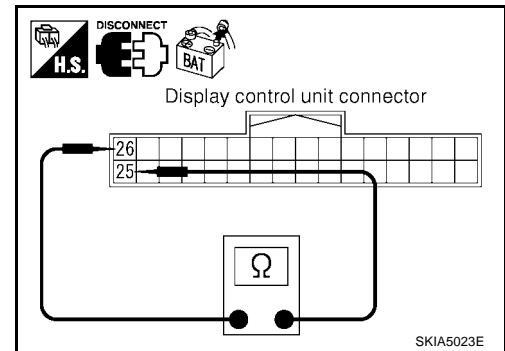
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between display control unit connector M95 terminal 25 (L) and terminal 26 (Y).

25 (L) - 26 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace display control unit.
- NG >> Repair harness between display control unit connector M95 and data link connector M22.



EKS00A1C

Data Link Connector Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Check data link connector M22 terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
- NG >> Repair or replace as necessary.

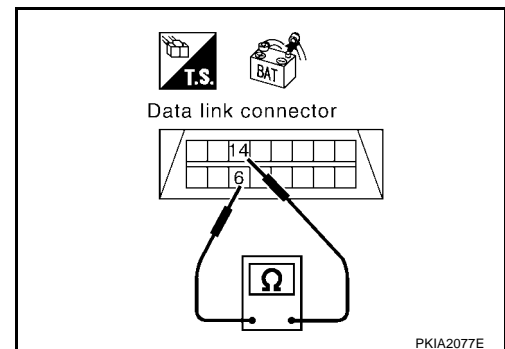
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector M22 terminal 6 (L) and terminal 14 (Y).

6 (L) - 14 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-329](#).
- NG >> Repair harness between data link connector M22 and BCM connector M18.



EKS00A1D

BCM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect BCM connector M18.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
- NG >> Repair or replace as necessary.

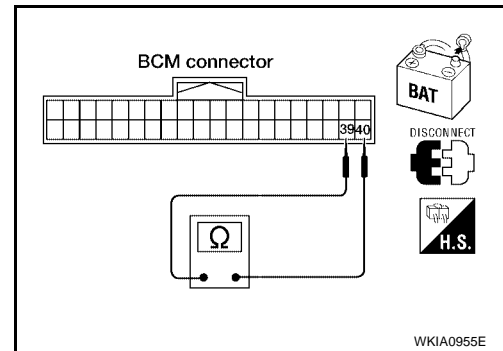
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between BCM connector M18 terminal 39 (L) and terminal 40 (Y).

39 (L) - 40 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace BCM.
 NG >> Repair harness between BCM connector M18 and data link connector M22.



Unified Meter and A/C Amp. Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect unified meter and A/C amp. connector M49.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

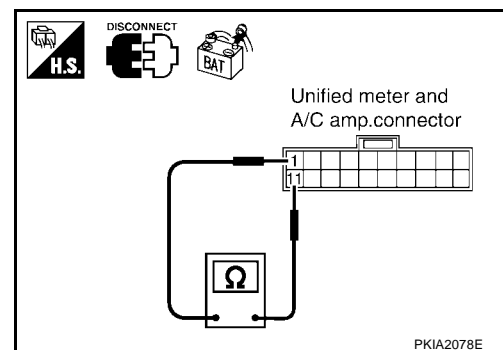
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between unified meter and A/C amp. connector M49 terminal 1 (L) and terminal 11 (Y).

1 (L) - 11 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace unified meter and A/C amp.
 NG >> Repair harness between unified meter and A/C amp. connector M49 and data link connector M22.



Driver Seat Control Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

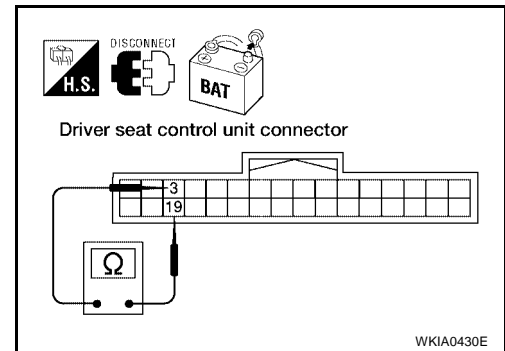
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between driver seat control unit connector P2 terminal 3 (BR) and terminal 19 (Y/G).

3 (BR) - 19 (Y/G) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace driver seat control unit.
 NG >> Repair harness between driver seat control unit connector P2 and data link connector M22.



ABS Actuator and Electric Unit (Control Unit) Circuit Check

EKS00A1G

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ABS actuator and electric unit (control unit) connector E125.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

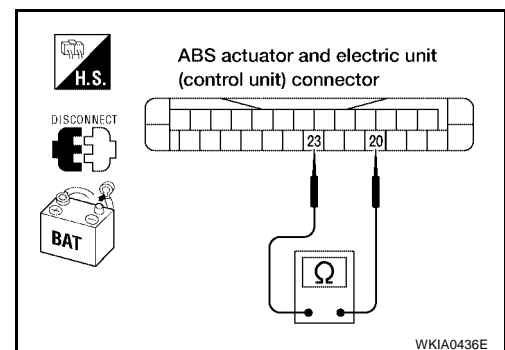
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between ABS actuator and electric unit (control unit) connector E125 terminal 20 (L) and terminal 23 (Y).

20 (L) - 23 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace ABS actuator and electric unit (control unit).
 NG >> Repair harness between ABS actuator and electric unit (control unit) connector E125 and IPDM E/R connector E121.



IPDM E/R Circuit Check

EKS00A1H

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect IPDM E/R connector E121.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

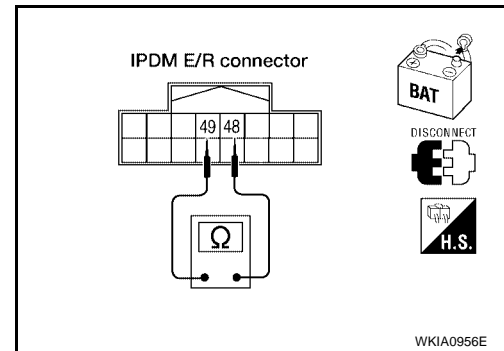
Check resistance between IPDM E/R connector E121 terminal 48 (L) and terminal 49 (Y).

48 (L) - 49 (Y)

: Approx. 108 - 132Ω

OK or NG

- OK >> Replace IPDM E/R.
 NG >> Repair harness between IPDM E/R connector E121 and ABS actuator and electric unit (control unit) connector E125.



CAN Communication Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect the following module and control unit connectors and check terminals for deformation, disconnection, looseness or damage.
 - ECM
 - TCM (Transmission control module)
 - Display control unit
 - BCM (Body control module)
 - Unified meter and A/C amp.
 - Driver seat control unit
 - ABS actuator and electric unit (control unit)
 - IPDM E/R (Intelligent power distribution module engine room)

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR SHORTED CIRCUITS

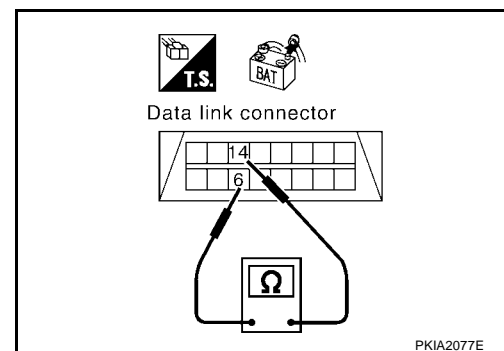
With all module and control unit connectors disconnected, check continuity between data link connector M22 terminals 6 (L) and 14 (Y).

6 (L) - 14 (Y)

: Continuity should not exist.

OK or NG

- OK >> GO TO 3.
 NG >> Repair the harness.



3. CHECK HARNESS FOR SHORT TO GROUND

Check continuity between data link connector M22 terminals 6 (L), 14 (Y) and ground.

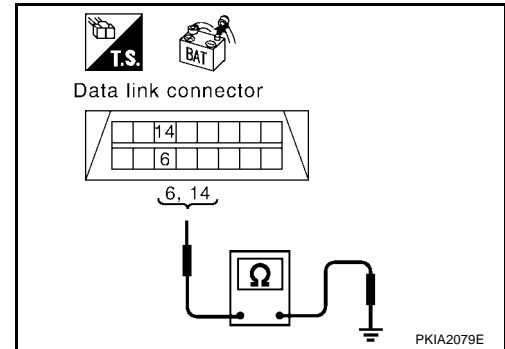
6 (L) - Ground : Continuity should not exist.

14 (Y) - Ground : Continuity should not exist.

OK or NG

OK >> Check ECM and IPDM E/R. Refer to [LAN-348, "Component Inspection"](#).

NG >> Repair the harness.



EKS00A1J

IPDM E/R Ignition Relay Circuit Check

Check the following. If no problem is found, replace the IPDM E/R.

- IPDM E/R power supply circuit. Refer to [PG-24, "IPDM E/R Power/Ground Circuit Inspection"](#).
- Ignition power supply circuit. Refer to [PG-11, "IGNITION POWER SUPPLY — IGNITION SW. IN ON AND/OR START"](#).

Component Inspection

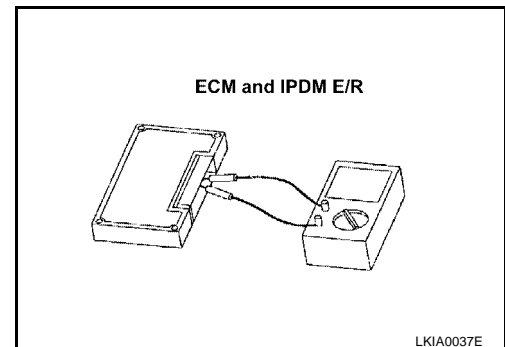
ECM/IPDM E/R INTERNAL CIRCUIT INSPECTION

- Remove ECM and IPDM E/R from vehicle.
- Check resistance between ECM terminals 94 and 86.

94 - 86 : Approx. 108 - 132Ω
- Check resistance between IPDM E/R terminals 48 and 49.

48 - 49 : Approx. 108 - 132Ω

EKS00A1K



CAN SYSTEM (TYPE 15)

PFP:23710

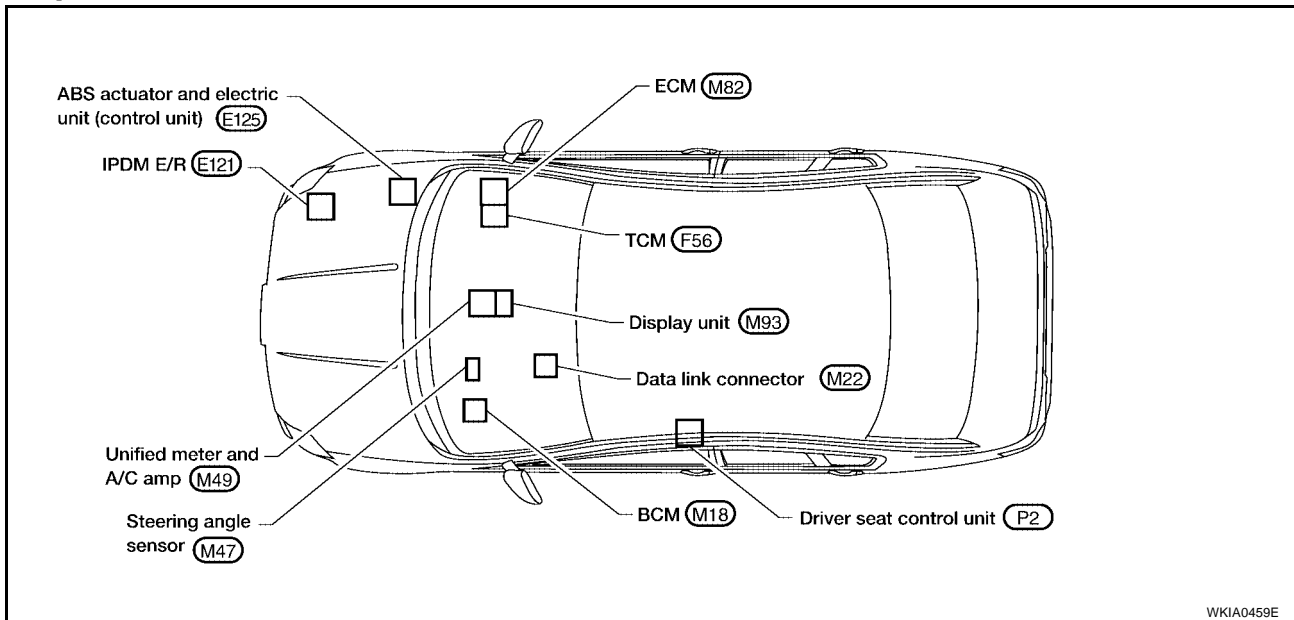
System Description

EKS00A0G

CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H line, CAN L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

Component Parts and Harness Connector Location

EKS00A0H



A
B
C
D
E
F
G
H
I
J
L
M

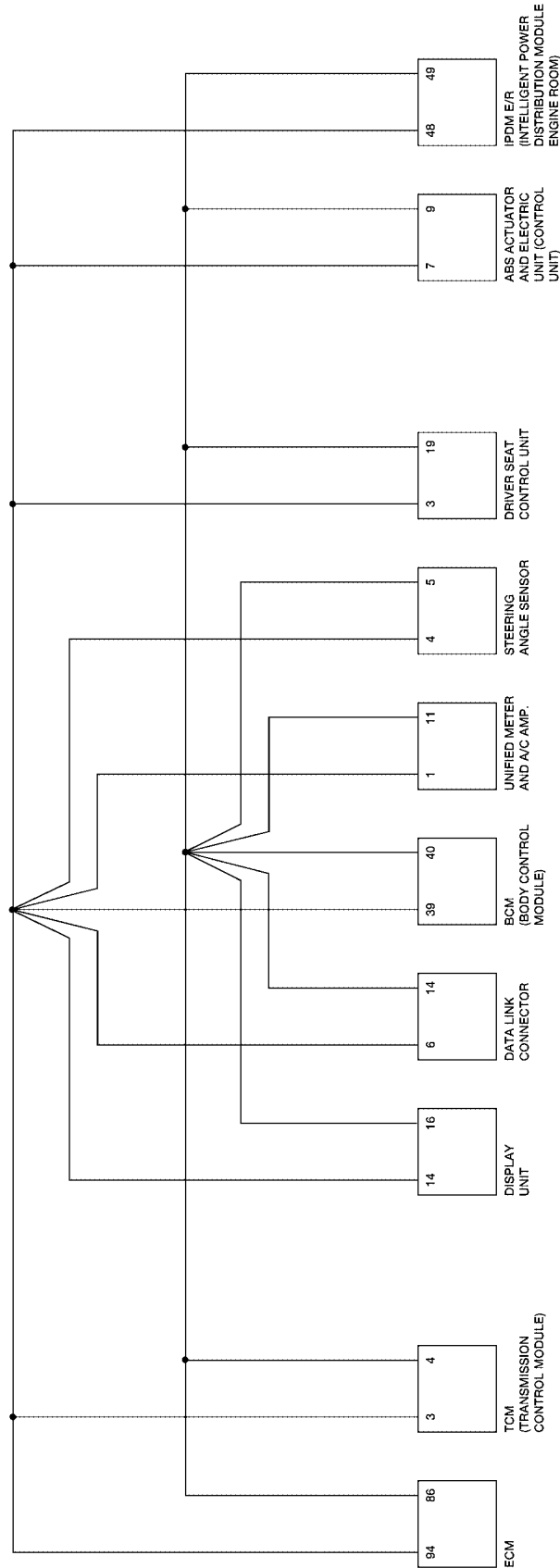
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CAN SYSTEM (TYPE 15)

[CAN]

Schematic

EKS00A01



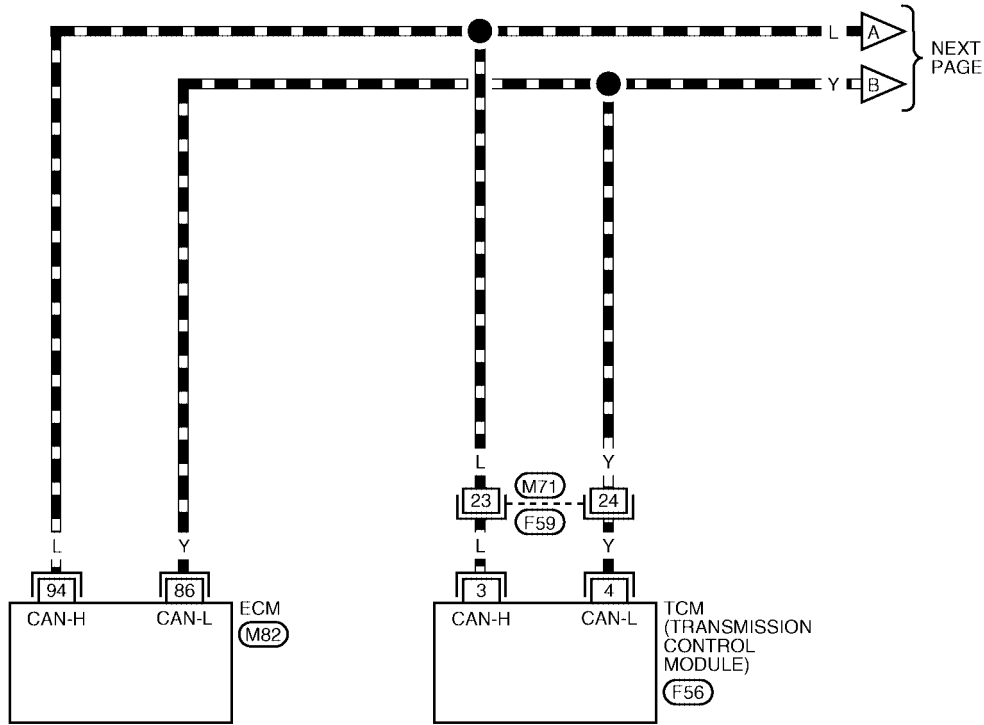
WKWA0421E

Wiring Diagram - CAN -

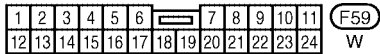
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— : DATA LINE



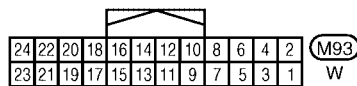
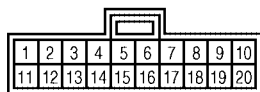
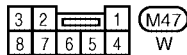
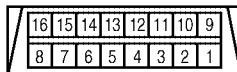
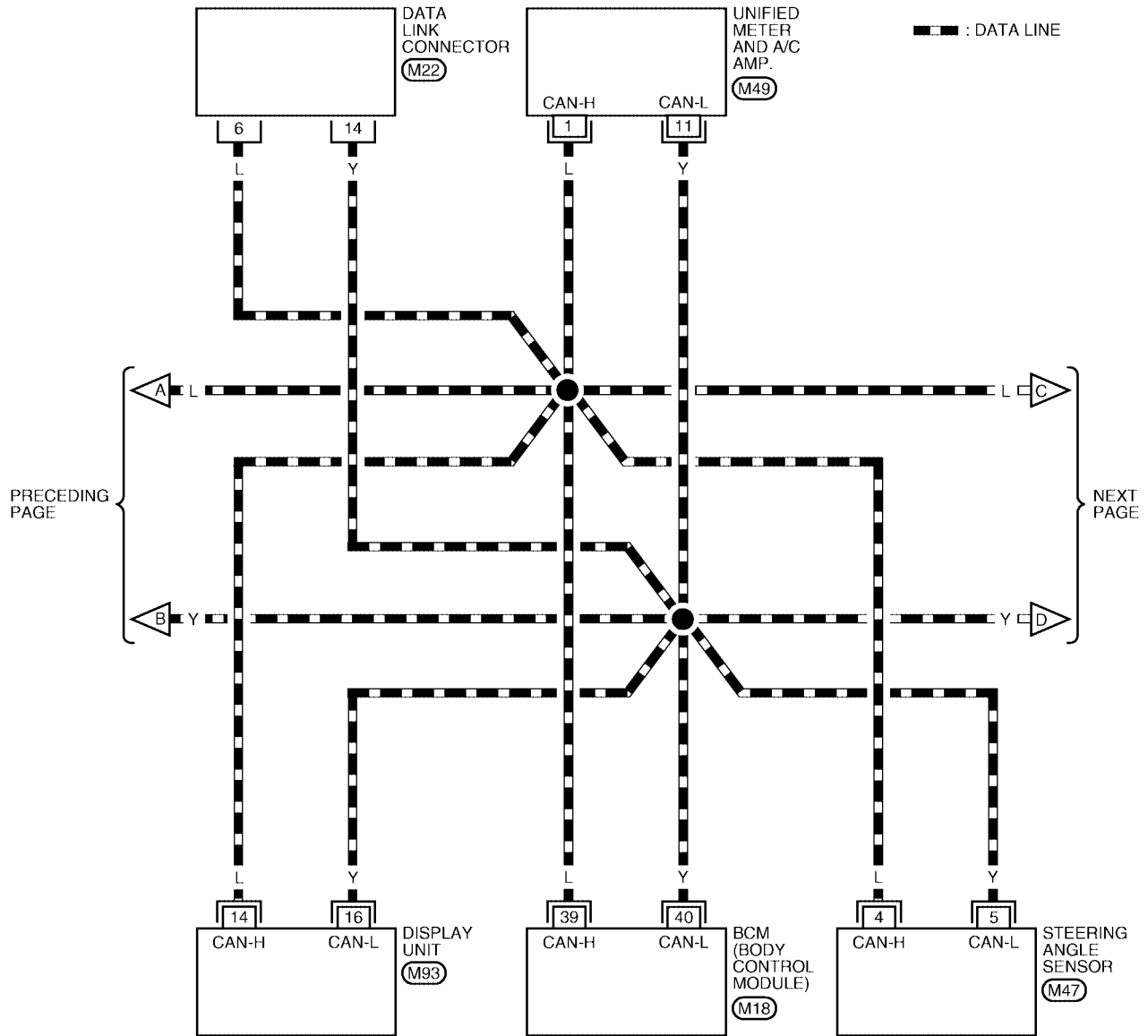
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REFER TO THE FOLLOWING.
(M82), (F56) - ELECTRICAL
UNITS

BKWA0240E

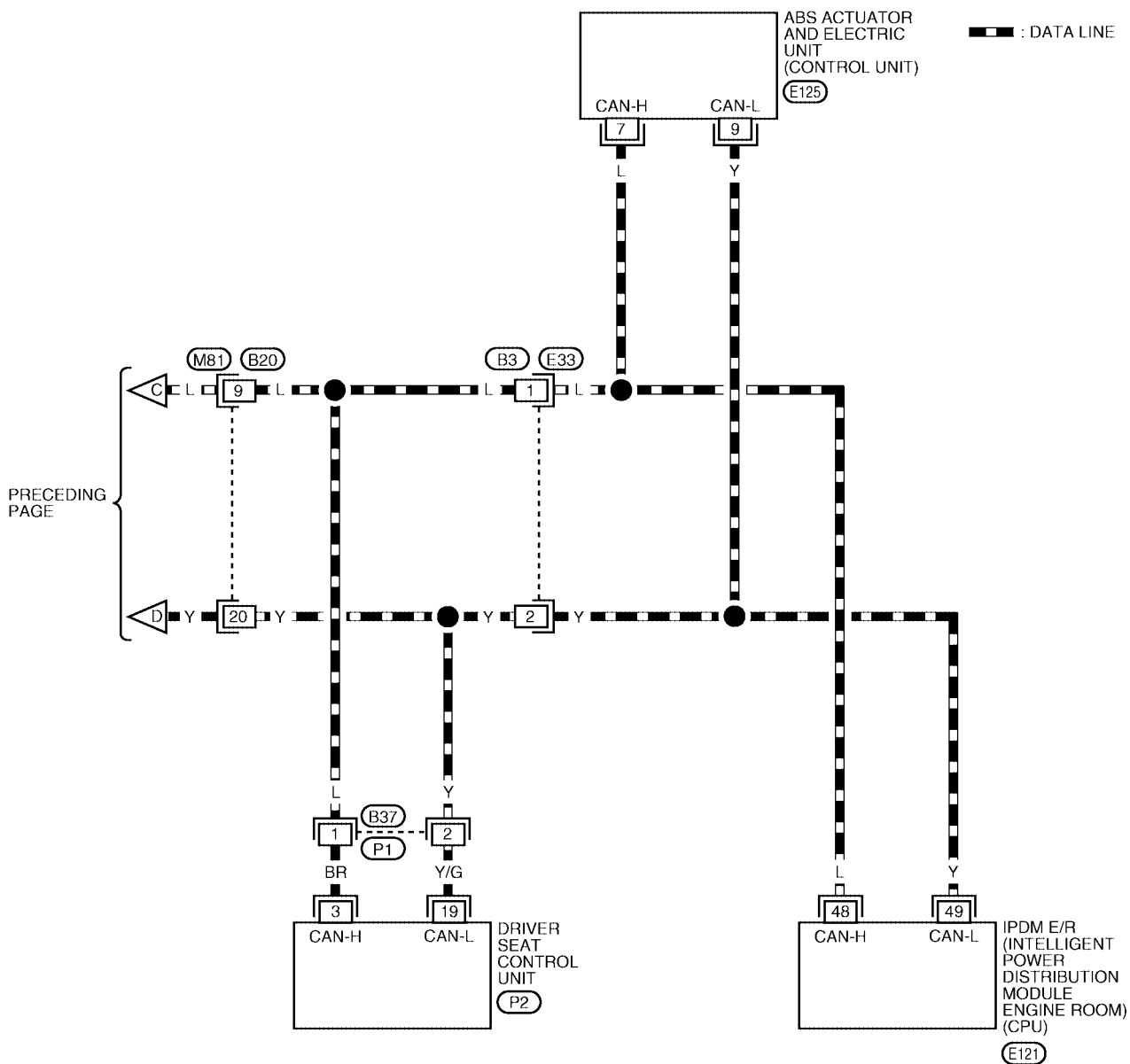
LAN-CAN-44



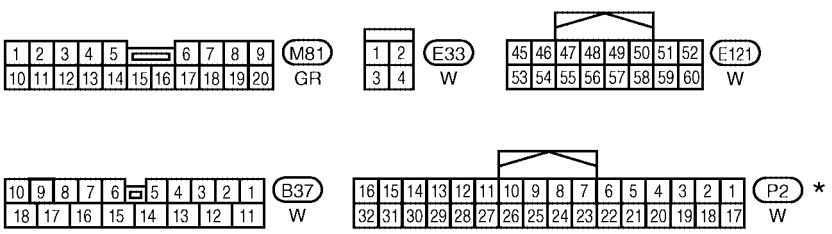
REFER TO THE FOLLOWING.
(M18) - ELECTRICAL UNITS

BKWA0241E

LAN-CAN-45



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REFER TO THE FOLLOWING.
E125 - ELECTRICAL UNITS

*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT" OF PG SECTION.

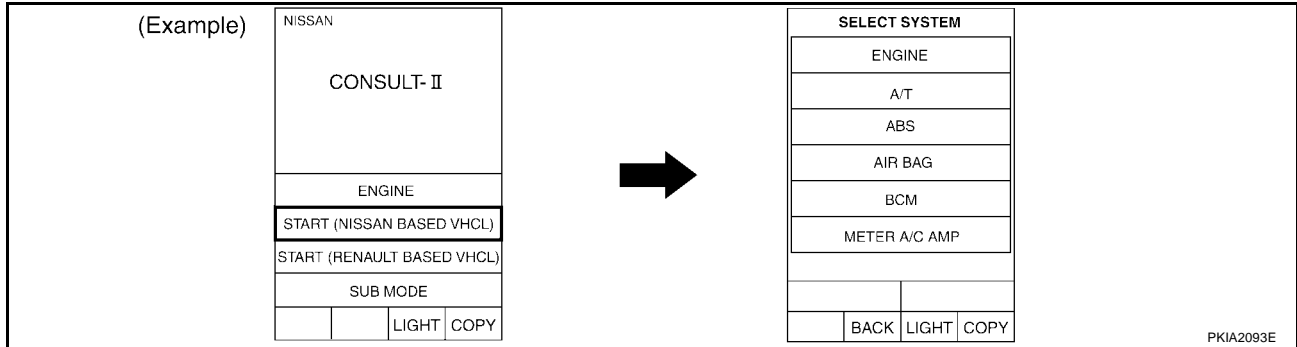
CAN SYSTEM (TYPE 15)

[CAN]

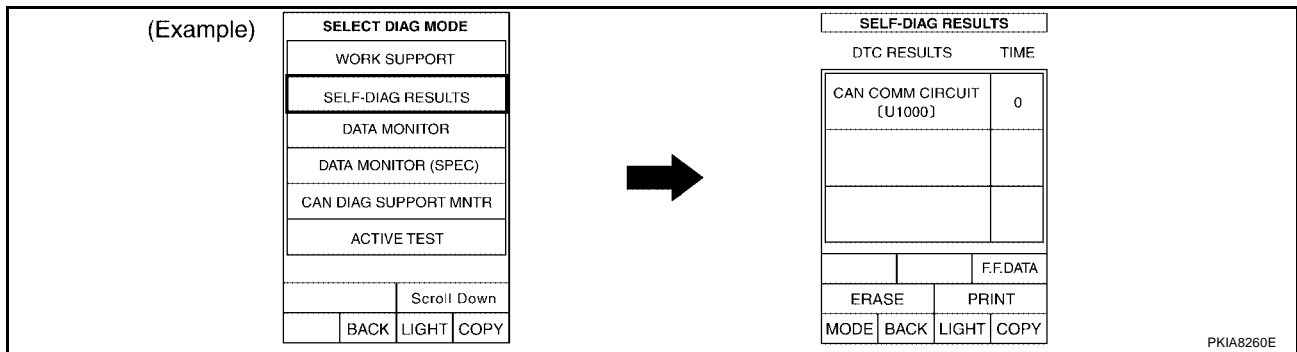
EKS00A0K

Work Flow

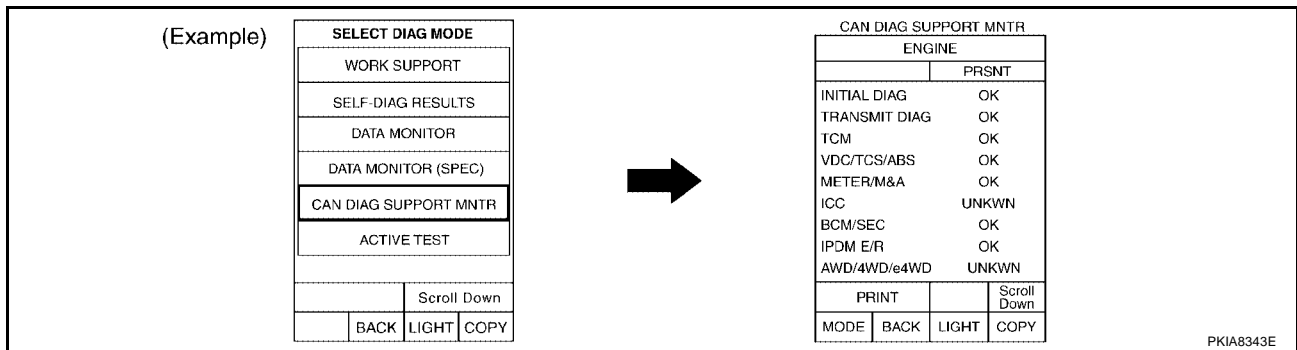
- When there are no indications of "TRANSMISSION", "METER A/C AMP", "BCM", "IPDM E/R" or "AUTO DRIVE POS." on "SELECT SYSTEM" display of CONSULT-II, print the "SELECT SYSTEM".



- Print all the data of "SELF-DIAG RESULTS" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Print all the data of "CAN DIAG SUPPORT MNTR" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Based on the indications of "SELECT SYSTEM" and the results of "CAN DIAG SUPPORT MNTR", put marks onto the items with "No indication", "NG", or "UNKWN" in the check sheet table.

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR									
	Initial diagnosis	Transmit diagnosis	Receive diagnosis							
	ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/TCS/ABS	IPDM E/R		
ENGINE	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	-	CAN 2	-	CAN 7
METER A/C AMP	No indication	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

BKIA0065E

NOTE:

- If "NG" is displayed on "INITIAL DIAG (Initial diagnosis)" as "CAN DIAG SUPPORT MNTR" for the diagnosed control unit, replace the control unit.

CAN SYSTEM (TYPE 15)

[CAN]

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- The “CAN DIAG SUPPORT MNTR” items which are not in check sheet table are not related to diagnostic procedure on service manual.
Therefore, it is not necessary to check the status of the “CAN DIAG SUPPORT MNTR” items not in check sheet table.
5. Mark the “NG” or “UNKWN” item of the check sheet table from the result of CAN DIAG SUPPORT MONITOR check sheet.
- NOTE:**
If “NG” is displayed on “CAN COMM” as “CAN DIAG SUPPORT MNTR” for the diagnosed control unit, replace the control unit.
6. According to the Check Sheet Results, start inspection.

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CAN SYSTEM (TYPE 15)

[CAN]

CHECK SHEET

Check sheet table

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	-	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-

Symptoms:

Attach copy of
SELECT SYSTEM

Attach copy of
SELECT SYSTEM

Attach copy of
display unit
CAN DIAG MONITOR
check sheet

BKIA0080E

CAN SYSTEM (TYPE 15)

[CAN]

Attach copy of ENGINE SELF-DIAG RESULTS	Attach copy of TRANSMISSION SELF-DIAG RESULTS	Attach copy of BCM SELF-DIAG RESULTS	Attach copy of METER A/C AMP SELF-DIAG RESULTS
Attach copy of ABS SELF-DIAG RESULTS	Attach copy of AUTO DRIVE POS. SELF-DIAG RESULTS	Attach copy of IPDM E/R SELF-DIAG RESULTS	
Attach copy of ENGINE CAN DIAG SUPPORT MNTR	Attach copy of TRANSMISSION CAN DIAG SUPPORT MNTR	Attach copy of BCM CAN DIAG SUPPORT MNTR	Attach copy of METER A/C AMP CAN DIAG SUPPORT MNTR
Attach copy of ABS CAN DIAG SUPPORT MNTR	Attach copy of AUTO DRIVE POS. CAN DIAG SUPPORT MNTR	Attach copy of IPDM E/R CAN DIAG SUPPORT MNTR	

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BKIA0085E

CAN SYSTEM (TYPE 15)

[CAN]

CHECK SHEET RESULTS

Case 1

Replace ECM.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R										
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	TCM	DISPLAY	METER/ M&A	STRG	BCM/SEC	VDC/TCS/ ABS	IPDM E/R	
ENGINE	-	✓	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	UNKWN	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	-	CAN 2	-	CAN 7	-
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	UNKWN	-
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-	-

WKIA2216E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R										
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	TCM	DISPLAY	METER/ M&A	STRG	BCM/SEC	VDC/TCS/ ABS	IPDM E/R	
ENGINE	-	NG	UNKWN	UNKWN	✓	-	UNKWN	-	UNKWN	✓	UNKWN	✓
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	UNKWN	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	-	CAN 2	-	CAN 7	-
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	UNKWN	-
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-	-

WKIA2218E

Case 2

Replace TCM.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R										
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	TCM	DISPLAY	METER/ M&A	STRG	BCM/SEC	VDC/TCS/ ABS	IPDM E/R	
ENGINE	-	NG	UNKWN	UNKWN	✓	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	✓	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	UNKWN	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	-	CAN 2	-	CAN 7	-
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	UNKWN	-
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-	-

WKIA2219E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R										
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	TCM	DISPLAY	METER/ M&A	STRG	BCM/SEC	VDC/TCS/ ABS	IPDM E/R	
ENGINE	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	✓	-	UNKWN	-	UNKWN	-	UNKWN	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	-	CAN 2	-	CAN 7	-
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	UNKWN	-
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-	-

WKIA2221E

CAN SYSTEM (TYPE 15)

[CAN]

Case 3

Replace display unit.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/ M&A	STRG	BCM/SEC	VDC/HCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW		UNKW		UNKW		UNKW	UNKW	UNKW
TRANSMISSION	No indication	NG	UNKW	UNKW			UNKW			UNKW	
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	-	CAN 2	-	CAN 7
METER A/C AMP	No indication		UNKW	UNKW	UNKW	UNKW			UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW			UNKW				UNKW
AUTO DRIVE POS	No indication	NG	UNKW	-	UNKW	-	UNKW	-	UNKW	-	-
ABS	-	NG	UNKW	UNKW	UNKW	-	-	UNKW	-		
IPDM E/R	No indication		UNKW	UNKW					UNKW		

WKIA2222E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/ M&A	STRG	BCM/SEC	VDC/HCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW		UNKW		UNKW		UNKW	UNKW	UNKW
TRANSMISSION	No indication	NG	UNKW	UNKW			UNKW			UNKW	
Display unit	-	CAN COMM	CAN 1	OK 3	-	-	OK 5	-	OK 2	-	OK 7
METER A/C AMP	No indication		UNKW	UNKW	UNKW	UNKW			UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW			UNKW				UNKW
AUTO DRIVE POS	No indication	NG	UNKW	-	UNKW	-	UNKW	-	UNKW	-	-
ABS	-	NG	UNKW	UNKW	UNKW	-	-	UNKW	-		
IPDM E/R	No indication		UNKW	UNKW					UNKW		

WKIA2223E

Case 4

Replace BCM.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/ M&A	STRG	BCM/SEC	VDC/HCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW		UNKW		UNKW		UNKW	UNKW	UNKW
TRANSMISSION	No indication	NG	UNKW	UNKW			UNKW			UNKW	
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	-	CAN 2	-	CAN 7
METER A/C AMP	No indication		UNKW	UNKW	UNKW	UNKW			UNKW	UNKW	UNKW
BCM	No indication	✓	UNKW	UNKW			UNKW				UNKW
AUTO DRIVE POS	No indication	NG	UNKW	-	UNKW	-	UNKW	-	UNKW	-	-
ABS	-	NG	UNKW	UNKW	UNKW	-	-	UNKW	-		
IPDM E/R	No indication		UNKW	UNKW					UNKW		

WKIA2224E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/ M&A	STRG	BCM/SEC	VDC/HCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW		UNKW		UNKW		UNKW	UNKW	UNKW
TRANSMISSION	No indication	NG	UNKW	UNKW			UNKW			UNKW	
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	-	CAN 2	-	CAN 7
METER A/C AMP	No indication		UNKW	UNKW	UNKW	UNKW			UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW			UNKW				UNKW
AUTO DRIVE POS	No indication	NG	UNKW	-	UNKW	-	UNKW	-	UNKW	-	-
ABS	-	NG	UNKW	UNKW	UNKW	-	-	UNKW	-		
IPDM E/R	No indication		UNKW	UNKW					UNKW		

WKIA2225E

Case 5

Replace unified meter and A/C amp.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/HCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	-	CAN 2	-	CAN 7	-
METER A/C AMP	No indication	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-
IPDM E/R	No indication	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN

WKIA2226E

Case 6

Replace driver seat control unit.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/HCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	-	CAN 2	-	CAN 7	-
METER A/C AMP	No indication	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
AUTO DRIVE POS.	No indication	✓	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-
IPDM E/R	No indication	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN

WKIA2227E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/HCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	-	CAN 2	-	CAN 7	-
METER A/C AMP	No indication	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-
IPDM E/R	No indication	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN

WKIA2228E

Case 7

Replace ABS actuator and electric unit (control unit).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/HCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	-	CAN 2	-	CAN 7	-
METER A/C AMP	No indication	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
ABS	-	✓	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-
IPDM E/R	No indication	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN

WKIA2229E

CAN SYSTEM (TYPE 15)

[CAN]

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R											
		Initial diagnosis	Transmit diagnosis	Receive diagnosis									
				ECM	TCM	DISPLAY	METER/ M&A	STRG	BCM/SEC	VDC/TCS/ ABS	IPDM E/R		
ENGINE	-	NG	UNKW		UNKW		UNKW		UNKW		UNKW		UNKW
TRANSMISSION	No indication	NG	UNKW	UNKW			UNKW				UNKW		
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	-	CAN 2	-			CAN 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	UNKW	-	-	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW			UNKW						UNKW
AUTO DRIVE POS.	No indication	NG	UNKW	-	UNKW	-	UNKW	-	UNKW	-			-
ABS	-	NG	UNKW	UNKW	UNKW	-	-	UNKW	-				-
IPDM E/R	No indication	-	UNKW	UNKW					UNKW				

WKIA2230E

Case 8

Replace IPDM E/R.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R											
		Initial diagnosis	Transmit diagnosis	Receive diagnosis									
				ECM	TCM	DISPLAY	METER/ M&A	STRG	BCM/SEC	VDC/TCS/ ABS	IPDM E/R		
ENGINE	-	NG	UNKW		UNKW		UNKW		UNKW		UNKW		UNKW
TRANSMISSION	No indication	NG	UNKW	UNKW			UNKW				UNKW		
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	-	CAN 2	-			CAN 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	UNKW	-	-	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW			UNKW						UNKW
AUTO DRIVE POS.	No indication	NG	UNKW	-	UNKW	-	UNKW	-	UNKW	-			-
ABS	-	NG	UNKW	UNKW	UNKW	-	-	UNKW	-				-
IPDM E/R	No indication	-	UNKW	UNKW					UNKW				

WKIA2231E

Case 9

Check harness between TCM and data link connector. Refer to [LAN-366](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R											
		Initial diagnosis	Transmit diagnosis	Receive diagnosis									
				ECM	TCM	DISPLAY	METER/ M&A	STRG	BCM/SEC	VDC/TCS/ ABS	IPDM E/R		
ENGINE	-	NG	UNKW		UNKW		UNKW		UNKW		UNKW		UNKW
TRANSMISSION	No indication	NG	UNKW	UNKW			UNKW				UNKW		UNKW
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	-	CAN 2	-			CAN 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	UNKW	-	-	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW			UNKW						UNKW
AUTO DRIVE POS.	No indication	NG	UNKW	-	UNKW	-	UNKW	-	UNKW	-			-
ABS	-	NG	UNKW	UNKW	UNKW	-	-	UNKW	-				-
IPDM E/R	No indication	-	UNKW	UNKW					UNKW				

WKIA2232E

Case 10

Check harness between data link connector and driver seat control unit. Refer to [LAN-366](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R											
		Initial diagnosis	Transmit diagnosis	Receive diagnosis									
				ECM	TCM	DISPLAY	METER/ M&A	STRG	BCM/SEC	VDC/TCS/ ABS	IPDM E/R		
ENGINE	-	NG	UNKW		UNKW		UNKW		UNKW		UNKW		UNKW
TRANSMISSION	No indication	NG	UNKW	UNKW			UNKW				UNKW		
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	-	CAN 2	-			CAN 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	UNKW	-	-	UNKW	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW			UNKW						UNKW
AUTO DRIVE POS.	No indication	NG	UNKW	-	UNKW	-	UNKW	-	UNKW	-			-
ABS	-	NG	UNKW	UNKW	UNKW	-	-	UNKW	-				-
IPDM E/R	No indication	-	UNKW	UNKW					UNKW				

WKIA2233E

CAN SYSTEM (TYPE 15)

[CAN]

Case 11

Check harness between driver seat control unit and ABS actuator and electric unit (control unit). Refer to [LAN-367](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
			ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/IGSI/ABS	IPDM E/R	
ENGINE	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	✓	✓	
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	✓	✓	
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	-	CAN 2	-	✓	
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	✓	✓	
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	✓	
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	-	-	
ABS	-	NG	UNKWN	✓	✓	-	-	UNKWN	-	-	
IPDM E/R	No indication	✓	UNKWN	UNKWN	-	-	-	UNKWN	-	-	

WKIA2234E

Case 12

Check ECM circuit. Refer to [LAN-367](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
			ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/IGSI/ABS	IPDM E/R	
ENGINE	-	NG	✓	UNKWN	-	UNKWN	-	UNKWN	✓	✓	
TRANSMISSION	No indication	NG	UNKWN	✓	-	UNKWN	-	UNKWN	UNKWN	UNKWN	
Display unit	-	CAN COMM	CAN 1	✓	-	CAN 5	-	CAN 2	-	CAN 7	
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	
BCM	No indication	NG	UNKWN	✓	-	UNKWN	-	-	-	UNKWN	
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	-	-	
ABS	-	NG	UNKWN	✓	UNKWN	-	-	UNKWN	-	-	
IPDM E/R	No indication	✓	UNKWN	✓	-	-	-	UNKWN	-	-	

WKIA2235E

Case 13

Check TCM circuit. Refer to [LAN-368](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
			ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/IGSI/ABS	IPDM E/R	
ENGINE	-	NG	UNKWN	✓	-	UNKWN	-	UNKWN	UNKWN	UNKWN	
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	-	CAN 2	-	CAN 7	
METER A/C AMP	No indication	NG	UNKWN	UNKWN	✓	UNKWN	-	UNKWN	UNKWN	UNKWN	
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	
AUTO DRIVE POS.	No indication	NG	UNKWN	-	✓	UNKWN	-	UNKWN	-	-	
ABS	-	NG	UNKWN	UNKWN	✓	-	-	UNKWN	-	-	
IPDM E/R	No indication	✓	UNKWN	UNKWN	-	-	-	UNKWN	-	-	

WKIA2236E

Case 14

Check display unit circuit. Refer to [LAN-368](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
			ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/IGSI/ABS	IPDM E/R	
ENGINE	-	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	
Display unit	-	CAN COMM	✓	✓	-	✓	-	✓	-	✓	
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	-	-	UNKWN	
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	-	-	
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	
IPDM E/R	No indication	✓	UNKWN	UNKWN	-	-	-	UNKWN	-	-	

WKIA2237E

Case 15

Check data link connector circuit. Refer to [LAN-369](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/HCS/ABS	IPDM E/R
ENGINE	-	NG	UNKW N		UNKW N		UNKW N		UNKW N	UNKW N	UNKW N
TRANSMISSION	No indication ✓	NG	UNKW N	UNKW N			UNKW N			UNKW N	UNKW N
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	-	CAN 2	-	CAN 7
METER A/C AMP	No indication ✓		UNKW N	UNKW N	UNKW N	UNKW N				UNKW N	UNKW N
BCM	No indication ✓	NG	UNKW N	UNKW N			UNKW N				UNKW N
AUTO DRIVE POS	No indication ✓	NG	UNKW N	-	UNKW N	-	UNKW N	-	UNKW N	-	-
ABS	-	NG	UNKW N	UNKW N	UNKW N	-	-	UNKW N	-	-	-
IPDM E/R	No indication ✓		UNKW N	UNKW N					UNKW N		

WKIA2238E

Case 16

Check BCM circuit. Refer to [LAN-369](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/HCS/ABS	IPDM E/R
ENGINE	-	NG	UNKW N		UNKW N		UNKW N		UNKW N ✓	UNKW N	UNKW N
TRANSMISSION	No indication	NG	UNKW N	UNKW N			UNKW N			UNKW N	UNKW N
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	-	CAN 2 ✓	-	CAN 7
METER A/C AMP	No indication		UNKW N	UNKW N	UNKW N	UNKW N			UNKW N ✓	UNKW N	UNKW N
BCM	No indication ✓	NG	UNKW N	UNKW N			UNKW N				UNKW N
AUTO DRIVE POS	No indication	NG	UNKW N	-	UNKW N	-	UNKW N	-	UNKW N ✓	-	-
ABS	-	NG	UNKW N	UNKW N	UNKW N	-	-	UNKW N			
IPDM E/R	No indication		UNKW N	UNKW N					UNKW N ✓		

WKIA2239E

Case 17

Check unified meter and A/C amp. circuit. Refer to [LAN-370](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/HCS/ABS	IPDM E/R
ENGINE	-	NG	UNKW N		UNKW N		UNKW N ✓		UNKW N	UNKW N	UNKW N
TRANSMISSION	No indication	NG	UNKW N	UNKW N			UNKW N ✓			UNKW N	UNKW N
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5 ✓	-	CAN 2	-	CAN 7
METER A/C AMP	No indication ✓		UNKW N	UNKW N	UNKW N	UNKW N			UNKW N	UNKW N	UNKW N
BCM	No indication	NG	UNKW N	UNKW N			UNKW N ✓				UNKW N
AUTO DRIVE POS	No indication	NG	UNKW N	-	UNKW N	-	UNKW N ✓	-	UNKW N	-	-
ABS	-	NG	UNKW N	UNKW N	UNKW N	-	-	UNKW N			
IPDM E/R	No indication		UNKW N	UNKW N					UNKW N		

WKIA2240E

Case 18

Check steering angle sensor circuit. Refer to [LAN-370](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/HCS/ABS	IPDM E/R
ENGINE	-	NG	UNKW N		UNKW N		UNKW N		UNKW N	UNKW N	UNKW N
TRANSMISSION	No indication	NG	UNKW N	UNKW N			UNKW N			UNKW N	UNKW N
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	-	CAN 2	-	CAN 7
METER A/C AMP	No indication		UNKW N	UNKW N	UNKW N	UNKW N			UNKW N	UNKW N	UNKW N
BCM	No indication	NG	UNKW N	UNKW N			UNKW N				UNKW N
AUTO DRIVE POS	No indication	NG	UNKW N	-	UNKW N	-	UNKW N	-	UNKW N	-	-
ABS	-	NG	UNKW N	UNKW N	UNKW N	-	-	UNKW N ✓			
IPDM E/R	No indication		UNKW N	UNKW N					UNKW N		

WKIA2241E

Case 19

Check driver seat control unit circuit. Refer to [LAN-371](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/ICSI/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	-	CAN 2	-	CAN 7	-
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
IPDM E/R	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN

WKIA2242E

Case 20

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-371](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/ICSI/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	-	CAN 2	-	CAN 7	-
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
IPDM E/R	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN

WKIA2243E

Case 21

Check IPDM E/R circuit. Refer to [LAN-372](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/ICSI/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	-	CAN 2	-	CAN 7	-
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
IPDM E/R	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN

WKIA2244E

Case 22

Check CAN communication circuit. Refer to [LAN-373](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/ICSI/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	CAN 5	-	CAN 2	-	CAN 7	-
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
IPDM E/R	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN

WKIA2245E

CAN SYSTEM (TYPE 15)

[CAN]

Case 23

Check IPDM E/R Ignition relay circuit. Refer to [LAN-373](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/ M&A	STRG	BCM/SEC	VDC/HCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN		UNKWN		UNKWN		UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN			UNKWN			UNKWN	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	-	CAN 2	-	CAN 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN			UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN			UNKWN				UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-		
IPDM E/R	No indication		UNKWN	UNKWN					UNKWN		

WKIA2246E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/ M&A	STRG	BCM/SEC	VDC/HCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN		UNKWN		UNKWN		UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN			UNKWN			UNKWN	UNKWN
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	-	CAN 2	-	CAN 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN			UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN			UNKWN				UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-		
IPDM E/R	No indication		UNKWN	UNKWN					UNKWN		

WKIA2247E

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LAN

Circuit Check Between TCM and Data Link Connector**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

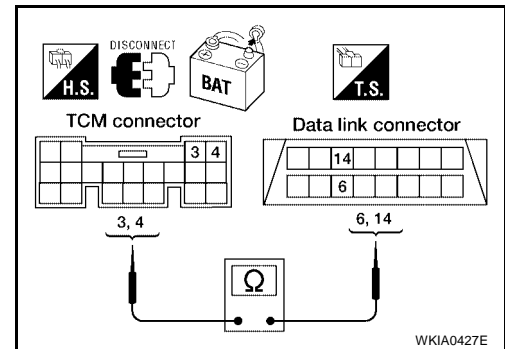
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between TCM connector F56 terminals 3 (L), 4 (Y) and data link connector M22 terminals 6 (L), 14 (Y).

- 3 (L) - 6 (L) : Continuity should exist.**
4 (Y) - 14 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-354, "Work Flow"](#).
 NG >> Repair harness.

**Circuit Check Between Driver Seat Control Unit and Data Link Connector****1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

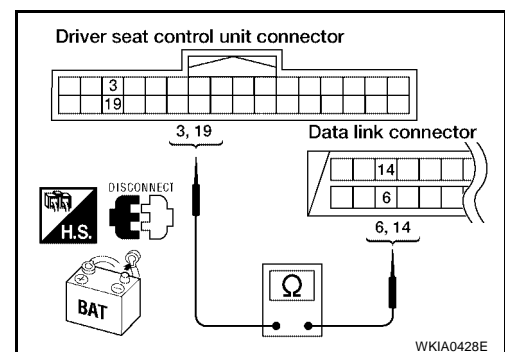
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and data link connector M22 terminals 6 (L), 14 (Y).

- 3 (BR) - 6 (L) : Continuity should exist.**
19 (Y/G) - 14 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-354](#).
 NG >> Repair harness.



Circuit Check Between Driver Seat Control Unit and ABS Actuator and Electric Unit (Control Unit)

EKS00A0N

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2, ABS actuator and electric unit (control unit) connector E125 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

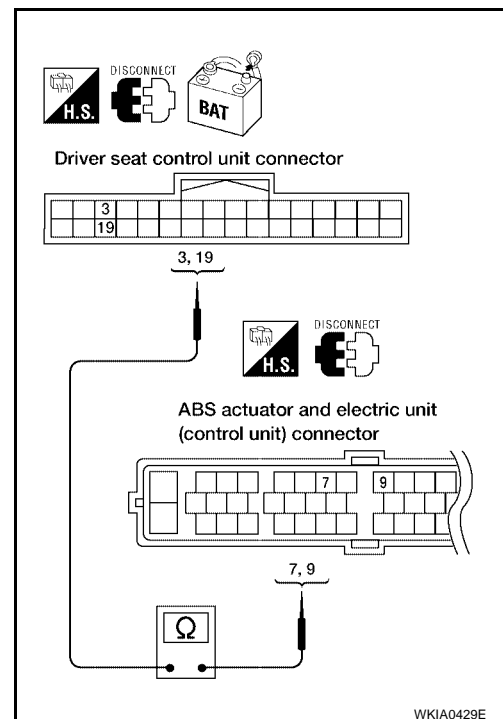
Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and ABS actuator and electric unit (control unit) connector E125 terminals 7 (L), 9 (Y).

3 (BR) - 7 (L) : Continuity should exist.

19 (Y/G) - 9 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-354](#).
NG >> Repair harness.



WKIA0429E

ECM Circuit Check

EKS00A00

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

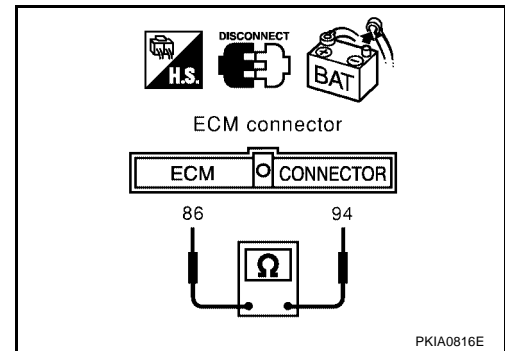
Check resistance between ECM connector M82 terminal 94 (L) and terminal 86 (Y).

94 (L) - 86 (Y)

: Approx. 108 - 132Ω

OK or NG

- OK >> Replace ECM.
 NG >> Repair harness between ECM connector M82 and TCM connector F56.



EKS00A0P

TCM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

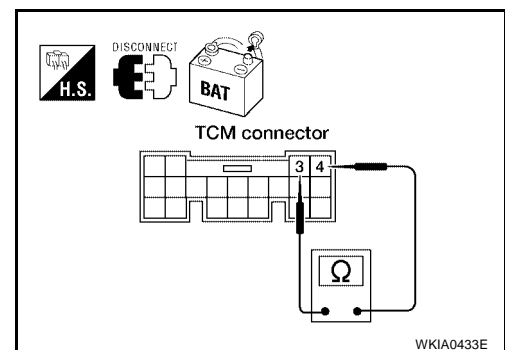
Check resistance between TCM connector F56 terminal 3 (L) and terminal 4 (Y).

3 (L) - 4 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace TCM.
 NG >> Repair harness between TCM connector F56 and ECM connector M82.



EKS00A0Q

Display Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect display unit connector M93.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

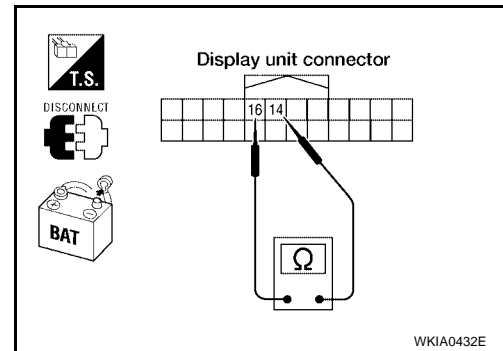
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between display control unit connector M93 terminal 14 (L) and terminal 16 (Y).

14 (L) - 16 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace display unit.
 NG >> Repair harness between display unit connector M93 and data link connector M22.



Data Link Connector Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Check data link connector M22 terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

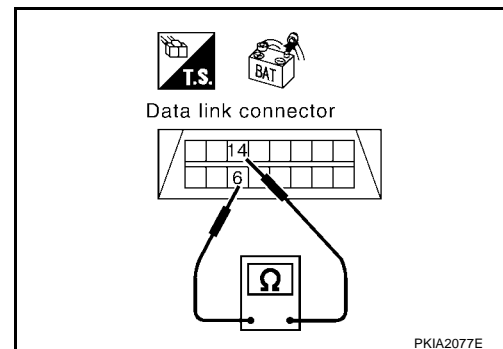
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector M22 terminal 6 (L) and terminal 14 (Y).

6 (L) - 14 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-354](#).
 NG >> Repair harness between data link connector M22 and BCM connector M18.



BCM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect BCM connector M18.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

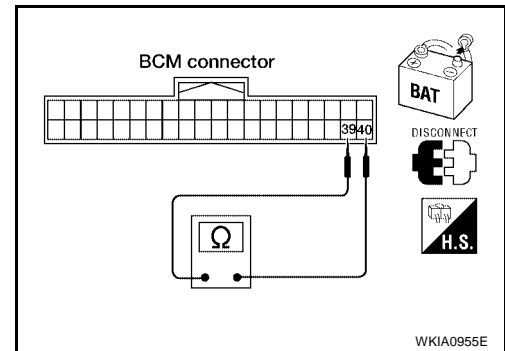
Check resistance between BCM connector M18 terminal 39 (L) and terminal 40 (Y).

39 (L) - 40 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace BCM.
 NG >> Repair harness between BCM connector M18 and data link connector M22.



EKS00A0T

Unified Meter and A/C Amp. Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect unified meter and A/C amp. connector M49.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

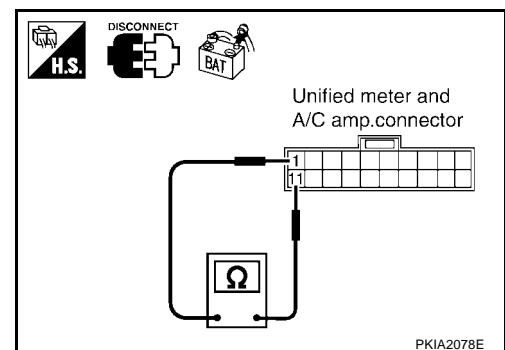
Check resistance between unified meter and A/C amp. connector M49 terminal 1 (L) and terminal 11 (Y).

1 (L) - 11 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace unified meter and A/C amp.
 NG >> Repair harness between unified meter and A/C amp. connector M49 and data link connector M22.



EKS00A0U

Steering Angle Sensor Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect steering angle sensor connector M47.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

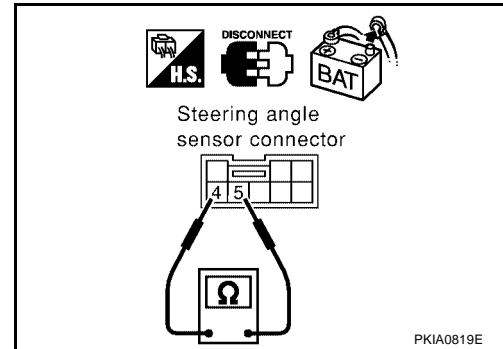
Check resistance between steering angle sensor connector M47 terminal 4 (L) and terminal 5 (Y).

4 (L) - 5 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace steering angle sensor.
 NG >> Repair harness between steering angle sensor connector M47 and data link connector M22.



Driver Seat Control Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

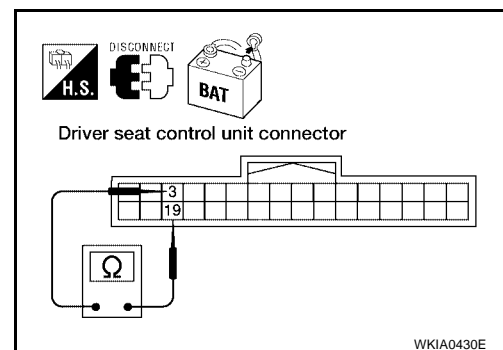
Check resistance between driver seat control unit connector P2 terminal 3 (BR) and terminal 19 (Y/G).

3 (BR) - 19 (Y/G)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace driver seat control unit.
 NG >> Repair harness between driver seat control unit connector P2 and data link connector M22.



ABS Actuator and Electric Unit (Control Unit) Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ABS actuator and electric unit (control unit) connector E125.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

EKS00A0W

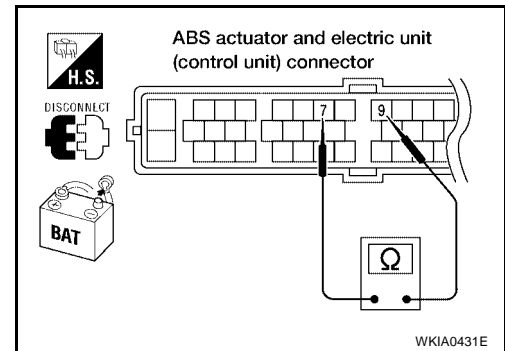
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between ABS actuator and electric unit (control unit) connector E125 terminal 7 (L) and terminal 9 (Y).

7 (L) - 9 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace ABS actuator and electric unit (control unit).
 NG >> Repair harness between ABS actuator and electric unit (control unit) connector E125 and IPDM E/R connector E121.



EKS00A0X

IPDM E/R Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect IPDM E/R connector E121.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

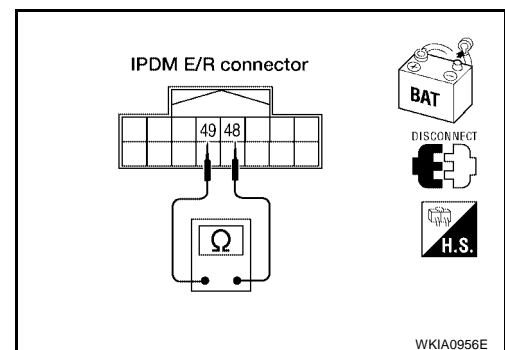
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between IPDM E/R connector E121 terminal 48 (L) and terminal 49 (Y).

48 (L) - 49 (Y) : Approx. 108 - 132Ω

OK or NG

- OK >> Replace IPDM E/R.
 NG >> Repair harness between IPDM E/R connector E121 and ABS actuator and electric unit (control unit) connector E125.



CAN Communication Circuit Check**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect the following module and control unit connectors and check terminals for deformation, disconnection, looseness or damage.
 - ECM
 - TCM (Transmission control module)
 - Display unit
 - BCM (Body control module)
 - Unified meter and A/C amp.
 - Steering angle sensor
 - Driver seat control unit
 - ABS actuator and electric unit (control unit)
 - IPDM E/R (Intelligent power distribution module engine room)

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

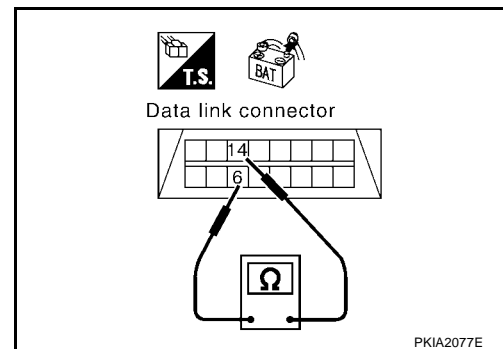
2. CHECK HARNESS FOR SHORTED CIRCUITS

With all module and control unit connectors disconnected, check continuity between data link connector M22 terminals 6 (L) and 14 (Y).

6 (L) - 14 (Y) : Continuity should not exist.

OK or NG

- OK >> GO TO 3.
 NG >> Repair the harness.

**3. CHECK HARNESS FOR SHORT TO GROUND**

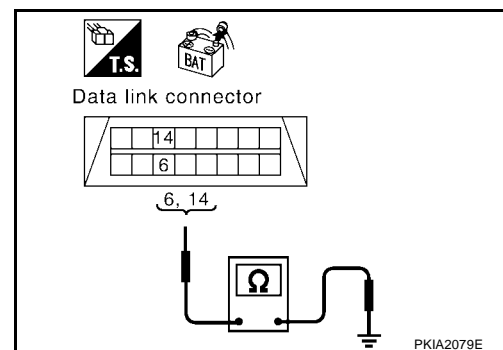
Check continuity between data link connector M22 terminals 6 (L), 14 (Y) and ground.

6 (L) - Ground : Continuity should not exist.

14 (Y) - Ground : Continuity should not exist.

OK or NG

- OK >> Check ECM and IPDM E/R. Refer to [LAN-374, "Component Inspection"](#)
 NG >> Repair the harness.

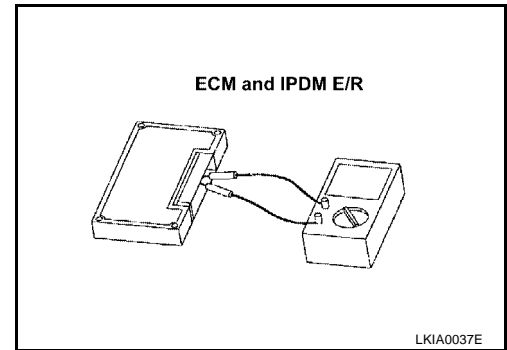
**IPDM E/R Ignition Relay Circuit Check**

Check the following. If no problem is found, replace the IPDM E/R.

- IPDM E/R power supply circuit. Refer to [PG-24, "IPDM E/R Power/Ground Circuit Inspection"](#).
- Ignition power supply circuit. Refer to [PG-11, "IGNITION POWER SUPPLY — IGNITION SW. IN ON AND/OR START"](#).

Component Inspection**ECM/IPDM E/R INTERNAL CIRCUIT INSPECTION**

- Remove ECM and IPDM E/R from vehicle.
- Check resistance between ECM terminals 94 and 86.
94 - 86 : Approx. 108 - 132Ω
- Check resistance between IPDM E/R terminals 48 and 49.
48 - 49 : Approx. 108 - 132Ω



CAN SYSTEM (TYPE 16)

PFP:23710

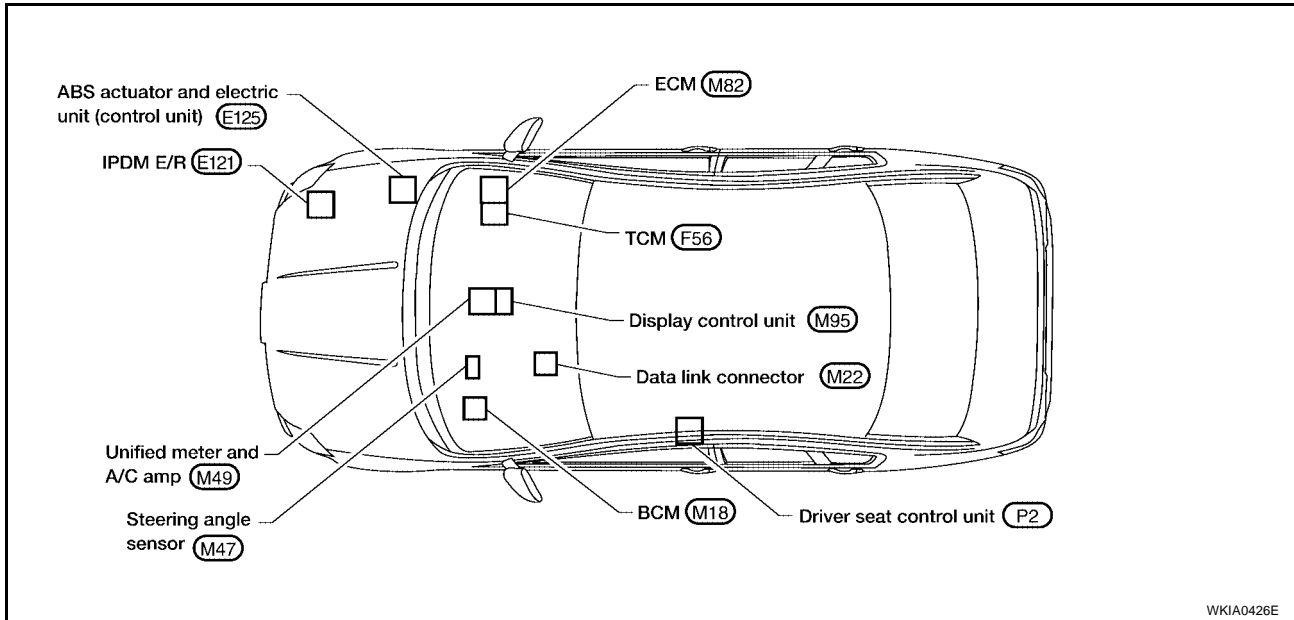
System Description

EKS009ZV

CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H line, CAN L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

Component Parts and Harness Connector Location

EKS009ZW



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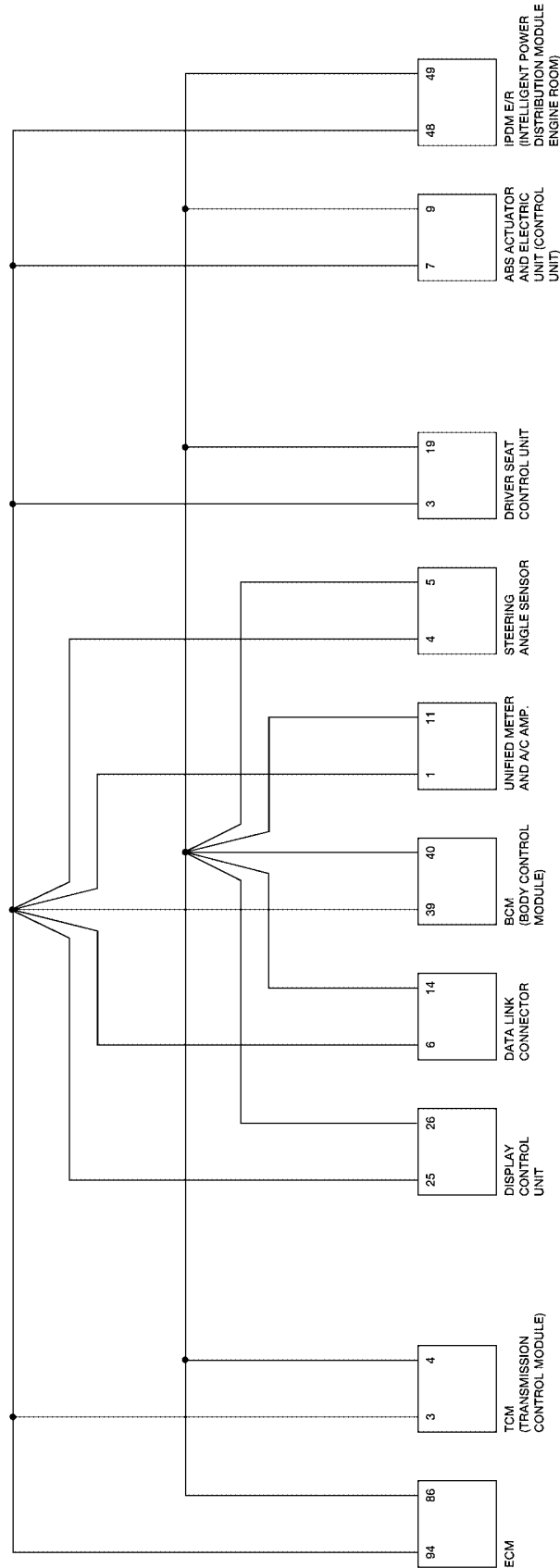
LAN

CAN SYSTEM (TYPE 16)

[CAN]

Schematic

EKS009ZX



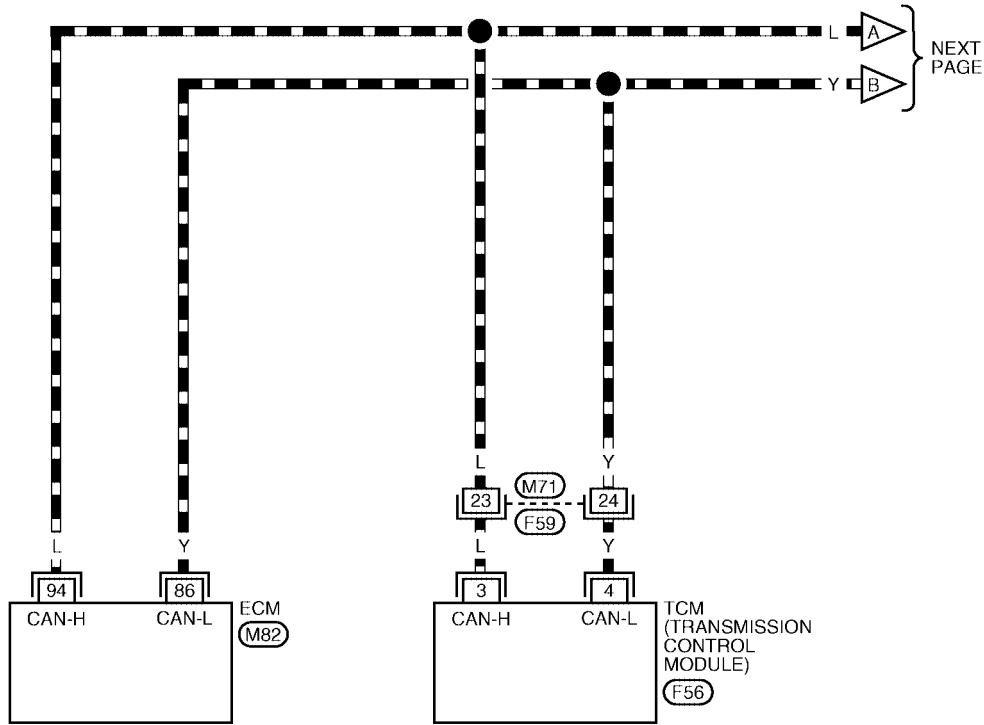
WKWA0425E

Wiring Diagram - CAN -

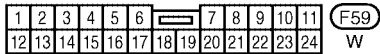
EKS009ZY

LAN-CAN-46

— : DATA LINE



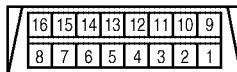
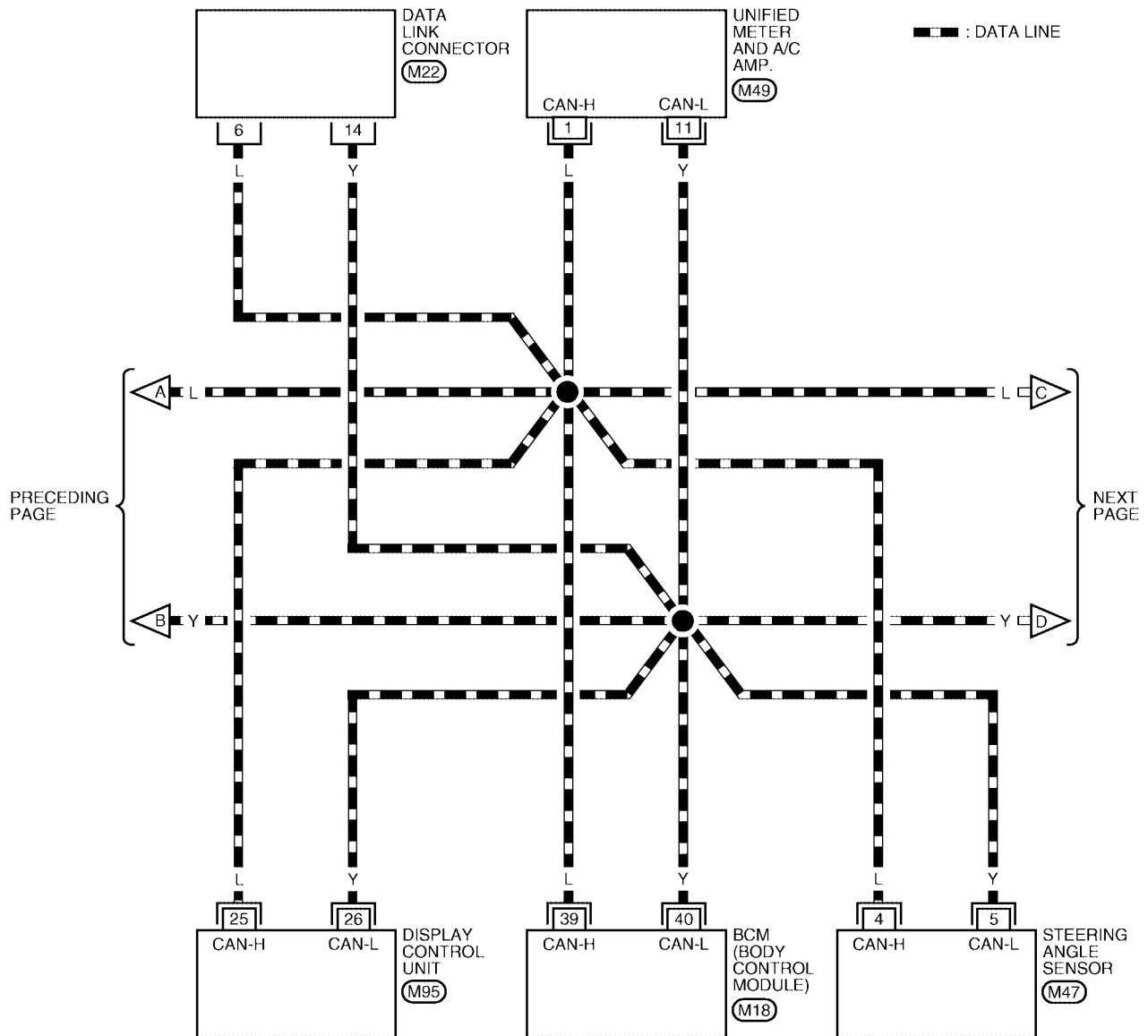
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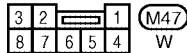
REFER TO THE FOLLOWING.
(M82), (F56) - ELECTRICAL
UNITS

BKWA0243E

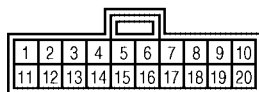
LAN-CAN-47



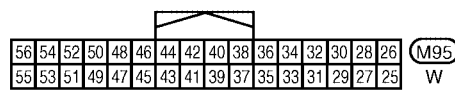
(M22)
W



(M47)
W



(M49)
GR

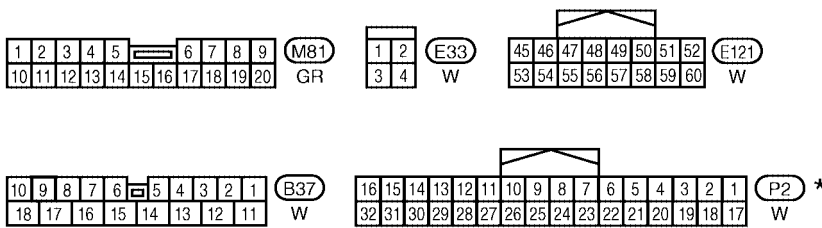
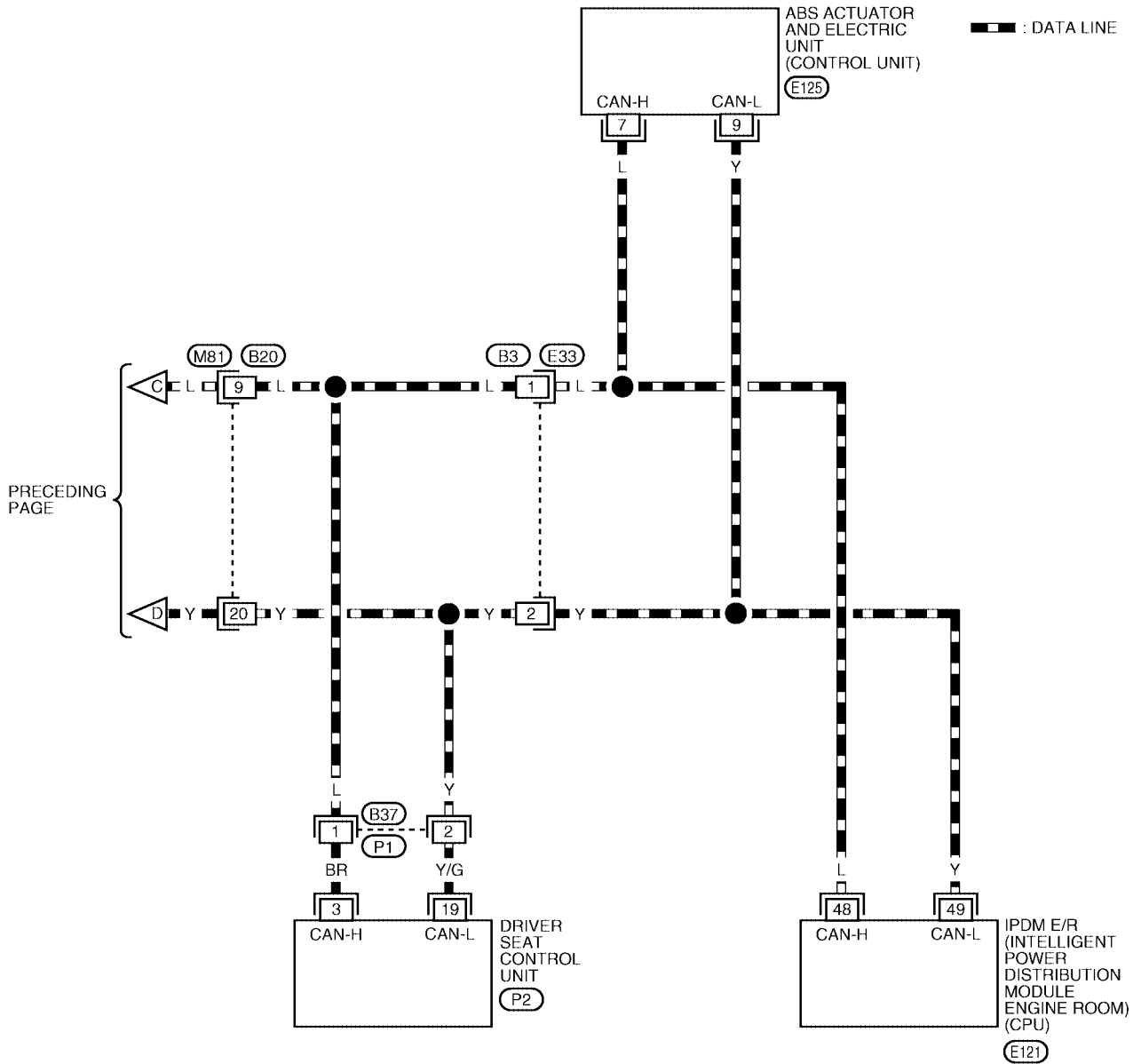


(M95)
W

REFER TO THE FOLLOWING.

(M18) - ELECTRICAL UNITS

LAN-CAN-48



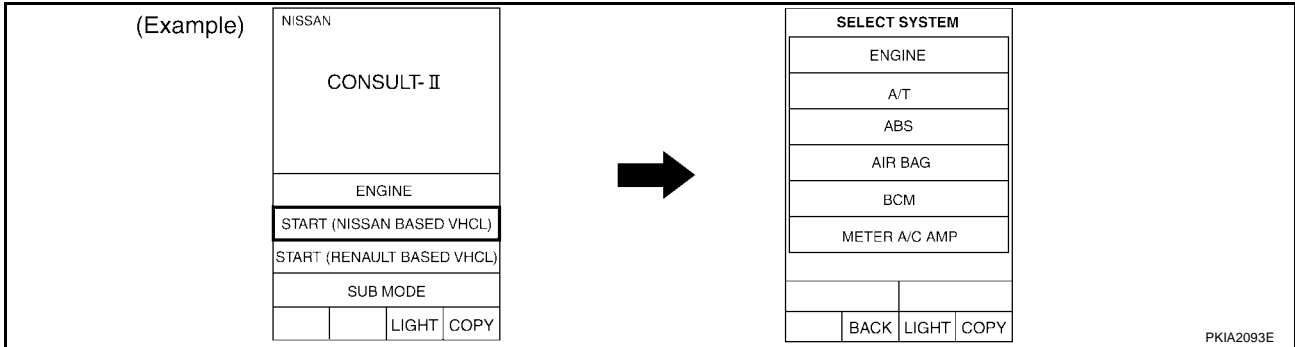
REFER TO THE FOLLOWING.
 (E125) - ELECTRICAL UNITS

*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT" OF PG SECTION.

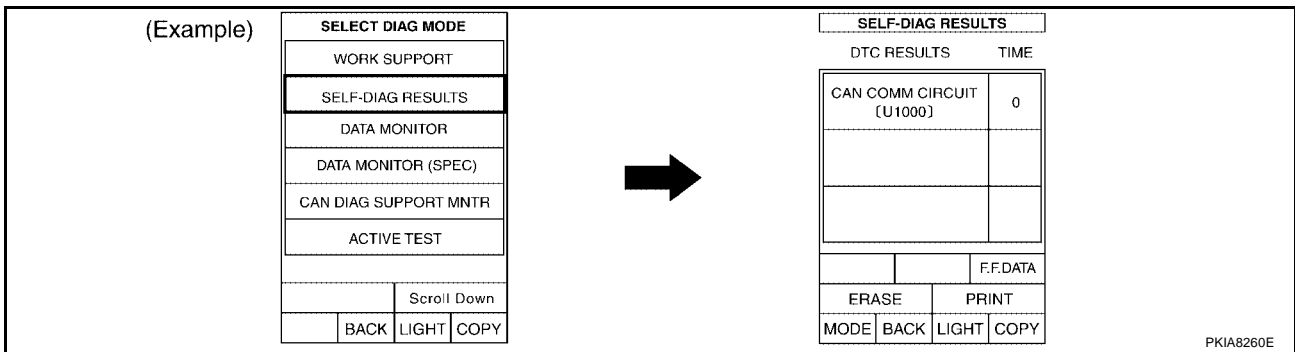
BKWA0245E

Work Flow

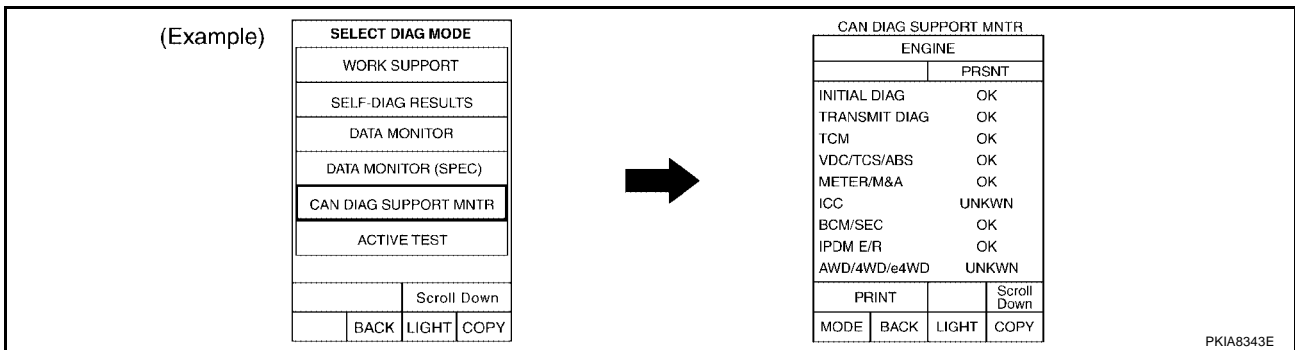
- When there are no indications of "TRANSMISSION", "METER A/C AMP", "BCM", "IPDM E/R" or "AUTO DRIVE POS." on "SELECT SYSTEM" display of CONSULT-II, print the "SELECT SYSTEM".



- Print all the data of "SELF-DIAG RESULTS" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Print all the data of "CAN DIAG SUPPORT MNTR" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Based on the indications of "SELECT SYSTEM" and the results of "CAN DIAG SUPPORT MNTR", put marks onto the items with "No indication", "NG", or "UNKWN" in the check sheet table.

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR									
	Initial diagnosis	Transmit diagnosis	Receive diagnosis							IPDM E/R
	ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/TCS/ABS	IPDM E/R		
ENGINE	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

BKIA0066E

NOTE:

- If "NG" is displayed on "INITIAL DIAG (Initial diagnosis)" as "CAN DIAG SUPPORT MNTR" for the diagnosed control unit, replace the control unit.

CAN SYSTEM (TYPE 16)

[CAN]

-
- The “CAN DIAG SUPPORT MNTR” items which are not in check sheet table are not related to diagnostic procedure on service manual.
Therefore, it is not necessary to check the status of the “CAN DIAG SUPPORT MNTR” items not in check sheet table.
5. Check CAN communication line of the navigation system.
 6. Mark the “NG” or “UNKWN” item of the check sheet table from the result of CAN DIAG SUPPORT MONITOR check sheet.
NOTE:
If “NG” is displayed on “CAN COMM” as “CAN DIAG SUPPORT MNTR” for the diagnosed control unit, replace the control unit.
 7. According to the Check Sheet Results, start inspection.

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B

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LAN

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M

CAN SYSTEM (TYPE 16)

[CAN]

CHECK SHEET

Check sheet table

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							IPDM E/R
				ECM	TCM	DISPLAY	METER/ M&A	STRG	BCM/SEC	VDC/TCS/ ABS	
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN	-
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-

Symptoms:

Attach copy of
SELECT SYSTEM

Attach copy of
SELECT SYSTEM

Attach copy of
display unit
CAN DIAG MONITOR
check sheet

BKIA0081E

CAN SYSTEM (TYPE 16)

[CAN]

Attach copy of ENGINE SELF-DIAG RESULTS	Attach copy of TRANSMISSION SELF-DIAG RESULTS	Attach copy of BCM SELF-DIAG RESULTS	Attach copy of METER A/C AMP SELF-DIAG RESULTS
Attach copy of ABS SELF-DIAG RESULTS	Attach copy of AUTO DRIVE POS. SELF-DIAG RESULTS	Attach copy of IPDM E/R SELF-DIAG RESULTS	
Attach copy of ENGINE CAN DIAG SUPPORT MNTR	Attach copy of TRANSMISSION CAN DIAG SUPPORT MNTR	Attach copy of BCM CAN DIAG SUPPORT MNTR	Attach copy of METER A/C AMP CAN DIAG SUPPORT MNTR
Attach copy of ABS CAN DIAG SUPPORT MNTR	Attach copy of AUTO DRIVE POS. CAN DIAG SUPPORT MNTR	Attach copy of IPDM E/R CAN DIAG SUPPORT MNTR	

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BKIA0085E

CAN SYSTEM (TYPE 16)

[CAN]

CHECK SHEET RESULTS

Case 1

Replace ECM.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR										
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	TCM	DISPLAY	METER/ M&A	STRG	BCM/SEC	VDC/TCS/ ABS	IPDM E/R	
ENGINE	-	✓	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	UNKWN	-
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7	-
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	UNKWN	-
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-	-

WKIA2256E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR										
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	TCM	DISPLAY	METER/ M&A	STRG	BCM/SEC	VDC/TCS/ ABS	IPDM E/R	
ENGINE	-	NG	UNKWN	UNKWN	✓	-	UNKWN	-	UNKWN	✓	UNKWN	✓
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	UNKWN	-
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7	-
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	UNKWN	-
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-	-

WKIA2257E

Case 2

Replace TCM.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR										
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	TCM	DISPLAY	METER/ M&A	STRG	BCM/SEC	VDC/TCS/ ABS	IPDM E/R	
ENGINE	-	NG	UNKWN	UNKWN	✓	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	✓	UNKWN	UNKWN	-	-	UNKWN	-	-	-	UNKWN	-
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7	-
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	UNKWN	-
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-	-

WKIA2258E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR										
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	TCM	DISPLAY	METER/ M&A	STRG	BCM/SEC	VDC/TCS/ ABS	IPDM E/R	
ENGINE	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	✓	-	UNKWN	-	-	-	UNKWN	-
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7	-
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	UNKWN	-
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-	-

WKIA2260E

CAN SYSTEM (TYPE 16)

[CAN]

Case 3

Replace display control unit.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/HCS/ABS	IPDM E/R
ENGINE	-	NG	UNKW		UNKW	-	UNKW	-	UNKW	UNKW	UNKW
TRANSMISSION	No indication	NG	UNKW	UNKW		-	UNKW	-	UNKW	UNKW	UNKW
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication		UNKW	UNKW	UNKW	UNKW	-	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW		-	UNKW	-	-	-	UNKW
AUTO DRIVE POS	No indication	NG	UNKW	-	UNKW	-	UNKW	-	UNKW	-	-
ABS	-	NG	UNKW	UNKW	UNKW	-	-	UNKW	-	-	-
IPDM E/R	No indication		UNKW	UNKW		-	-	-	UNKW	-	-

WKIA2261E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/HCS/ABS	IPDM E/R
ENGINE	-	NG	UNKW		UNKW	-	UNKW	-	UNKW	UNKW	UNKW
TRANSMISSION	No indication	NG	UNKW	UNKW		-	UNKW	-	UNKW	UNKW	UNKW
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication		UNKW	UNKW	UNKW	UNKW	-	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW		-	UNKW	-	-	-	UNKW
AUTO DRIVE POS	No indication	NG	UNKW	-	UNKW	-	UNKW	-	UNKW	-	-
ABS	-	NG	UNKW	UNKW	UNKW	-	-	UNKW	-	-	-
IPDM E/R	No indication		UNKW	UNKW		-	-	-	UNKW	-	-

WKIA2263E

Case 4

Replace BCM.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/HCS/ABS	IPDM E/R
ENGINE	-	NG	UNKW		UNKW	-	UNKW	-	UNKW	UNKW	UNKW
TRANSMISSION	No indication	NG	UNKW	UNKW		-	UNKW	-	UNKW	UNKW	UNKW
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication		UNKW	UNKW	UNKW	UNKW	-	-	UNKW	UNKW	UNKW
BCM	No indication	✓	UNKW	UNKW		-	UNKW	-	-	-	UNKW
AUTO DRIVE POS	No indication	NG	UNKW	-	UNKW	-	UNKW	-	UNKW	-	-
ABS	-	NG	UNKW	UNKW	UNKW	-	-	UNKW	-	-	-
IPDM E/R	No indication		UNKW	UNKW		-	-	-	UNKW	-	-

WKIA2264E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/HCS/ABS	IPDM E/R
ENGINE	-	NG	UNKW		UNKW	-	UNKW	-	UNKW	UNKW	UNKW
TRANSMISSION	No indication	NG	UNKW	UNKW		-	UNKW	-	UNKW	UNKW	UNKW
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication		UNKW	UNKW	UNKW	UNKW	-	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW		-	UNKW	-	-	-	UNKW
AUTO DRIVE POS	No indication	NG	UNKW	-	UNKW	-	UNKW	-	UNKW	-	✓
ABS	-	NG	UNKW	UNKW	UNKW	-	-	UNKW	-	-	-
IPDM E/R	No indication		UNKW	UNKW		-	-	-	UNKW	-	-

WKIA2265E

Case 5

Replace unified meter and A/C amp.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R										
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/HCS/ABS	IPDM E/R	
ENGINE	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN	UNKWN	UNKWN
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7	-
METER A/C AMP	No indication	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-	-
IPDM E/R	No indication	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN

WKIA2267E

Case 6

Replace driver seat control unit.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R										
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/HCS/ABS	IPDM E/R	
ENGINE	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	UNKWN
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7	-
METER A/C AMP	No indication	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
AUTO DRIVE POS.	No indication	UNKWN	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-	-
IPDM E/R	No indication	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN

WKIA2269E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R										
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/HCS/ABS	IPDM E/R	
ENGINE	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	UNKWN
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7	-
METER A/C AMP	No indication	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-	-
IPDM E/R	No indication	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN

WKIA2270E

Case 7

Replace ABS actuator and electric unit (control unit).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R										
		Initial diagnosis	Transmit diagnosis	Receive diagnosis								
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/HCS/ABS	IPDM E/R	
ENGINE	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	UNKWN
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7	-
METER A/C AMP	No indication	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-	-
ABS	-	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-	-
IPDM E/R	No indication	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN

WKIA2272E

CAN SYSTEM (TYPE 16)

[CAN]

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/ M&A	STRG	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	UNKW	UNKW	-	UNKW	-	UNKW	UNKW	UNKW
TRANSMISSION	No indication	NG	UNKW	UNKW	-	-	UNKW	-	-	UNKW	-
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	UNKW	-	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	-	UNKW	-	-	-	UNKW
AUTO DRIVE POS.	No indication	NG	UNKW	-	UNKW	-	UNKW	-	UNKW	-	-
ABS	-	NG	UNKW	UNKW	UNKW	-	-	UNKW	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	-	-	UNKW	-	-

WKIA2273E

Case 8

Replace IPDM E/R.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/ M&A	STRG	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	UNKW	UNKW	-	UNKW	-	UNKW	UNKW	UNKW
TRANSMISSION	No indication	NG	UNKW	UNKW	-	-	UNKW	-	-	UNKW	-
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	UNKW	-	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	-	UNKW	-	-	-	UNKW
AUTO DRIVE POS.	No indication	NG	UNKW	-	UNKW	-	UNKW	-	UNKW	-	-
ABS	-	NG	UNKW	UNKW	UNKW	-	-	UNKW	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	-	-	UNKW	-	-

WKIA2274E

Case 9

Check harness between TCM and data link connector. Refer to [LAN-392](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/ M&A	STRG	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	UNKW	UNKW	-	UNKW	-	UNKW	UNKW	UNKW
TRANSMISSION	No indication	NG	UNKW	UNKW	-	-	UNKW	-	-	UNKW	-
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	UNKW	-	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	-	UNKW	-	-	-	UNKW
AUTO DRIVE POS.	No indication	NG	UNKW	-	UNKW	-	UNKW	-	UNKW	-	-
ABS	-	NG	UNKW	UNKW	UNKW	-	-	UNKW	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	-	-	UNKW	-	-

WKIA2275E

Case 10

Check harness between data link connector and driver seat control unit. Refer to [LAN-392](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/ M&A	STRG	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW	-	UNKW	-	UNKW	-	UNKW	UNKW	UNKW
TRANSMISSION	No indication	NG	UNKW	UNKW	-	-	UNKW	-	-	UNKW	-
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKW	UNKW	UNKW	UNKW	-	-	UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW	-	-	UNKW	-	-	-	UNKW
AUTO DRIVE POS.	No indication	NG	UNKW	-	UNKW	-	UNKW	-	UNKW	-	-
ABS	-	NG	UNKW	UNKW	UNKW	-	-	UNKW	-	-	-
IPDM E/R	No indication	-	UNKW	UNKW	-	-	-	-	UNKW	-	-

WKIA2276E

CAN SYSTEM (TYPE 16)

[CAN]

Case 11

Check harness between driver seat control unit and ABS actuator and electric unit (control unit). Refer to [LAN-393](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/IGSI/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN	UNKWN
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-
IPDM E/R	No indication	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-

WKIA2277E

Case 12

Check ECM circuit. Refer to [LAN-393](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/IGSI/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN	UNKWN
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-
IPDM E/R	No indication	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-

WKIA2278E

Case 13

Check TCM circuit. Refer to [LAN-394](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/IGSI/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN	UNKWN
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-
IPDM E/R	No indication	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-

WKIA2280E

Case 14

Check display control unit circuit. Refer to [LAN-394](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/IGSI/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN	UNKWN
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	-
IPDM E/R	No indication	NG	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-

WKIA2281E

Case 15

Check data link connector circuit. Refer to [LAN-395](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/HCS/ABS	IPDM E/R
ENGINE	-	NG	UNKW N		UNKW N		UNKW N		UNKW N	UNKW N	UNKW N
TRANSMISSION	No indication	NG	UNKW N	UNKW N			UNKW N		UNKW N	UNKW N	UNKW N
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	NG	UNKW N	UNKW N	UNKW N	UNKW N			UNKW N	UNKW N	UNKW N
BCM	No indication	NG	UNKW N	UNKW N			UNKW N				UNKW N
AUTO DRIVE POS.	No indication	NG	UNKW N	-	UNKW N	-	UNKW N	-	UNKW N	-	-
ABS	-	NG	UNKW N	UNKW N	UNKW N	-	-	UNKW N	-	-	-
IPDM E/R	No indication	-	UNKW N	UNKW N					UNKW N		

WKIA2282E

Case 16

Check BCM circuit. Refer to [LAN-395](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/HCS/ABS	IPDM E/R
ENGINE	-	NG	UNKW N		UNKW N		UNKW N		UNKW N	UNKW N	UNKW N
TRANSMISSION	No indication	NG	UNKW N	UNKW N			UNKW N		UNKW N	UNKW N	UNKW N
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	NG	UNKW N	UNKW N	UNKW N	UNKW N			UNKW N	UNKW N	UNKW N
BCM	No indication	NG	UNKW N	UNKW N			UNKW N		UNKW N		UNKW N
AUTO DRIVE POS.	No indication	NG	UNKW N	-	UNKW N	-	UNKW N	-	UNKW N	-	-
ABS	-	NG	UNKW N	UNKW N	UNKW N	-	-	UNKW N	-	-	-
IPDM E/R	No indication	-	UNKW N	UNKW N					UNKW N		

WKIA2284E

Case 17

Check unified meter and A/C amp. circuit. Refer to [LAN-396](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/HCS/ABS	IPDM E/R
ENGINE	-	NG	UNKW N		UNKW N		UNKW N		UNKW N	UNKW N	UNKW N
TRANSMISSION	No indication	NG	UNKW N	UNKW N			UNKW N		UNKW N	UNKW N	UNKW N
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	NG	UNKW N	UNKW N	UNKW N	UNKW N			UNKW N	UNKW N	UNKW N
BCM	No indication	NG	UNKW N	UNKW N			UNKW N				UNKW N
AUTO DRIVE POS.	No indication	NG	UNKW N	-	UNKW N	-	UNKW N	-	UNKW N	-	-
ABS	-	NG	UNKW N	UNKW N	UNKW N	-	-	UNKW N	-	-	-
IPDM E/R	No indication	-	UNKW N	UNKW N					UNKW N		

WKIA2285E

Case 18

Check steering angle sensor circuit. Refer to [LAN-396](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/HCS/ABS	IPDM E/R
ENGINE	-	NG	UNKW N		UNKW N		UNKW N		UNKW N	UNKW N	UNKW N
TRANSMISSION	No indication	NG	UNKW N	UNKW N			UNKW N		UNKW N	UNKW N	UNKW N
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	NG	UNKW N	UNKW N	UNKW N	UNKW N			UNKW N	UNKW N	UNKW N
BCM	No indication	NG	UNKW N	UNKW N			UNKW N				UNKW N
AUTO DRIVE POS.	No indication	NG	UNKW N	-	UNKW N	-	UNKW N	-	UNKW N	-	-
ABS	-	NG	UNKW N	UNKW N	UNKW N	-	-	UNKW N	-	-	-
IPDM E/R	No indication	-	UNKW N	UNKW N					UNKW N		

WKIA2286E

Case 19

Check driver seat control unit circuit. Refer to [LAN-397](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									
		Initial diagnosis	Transmit diagnosis	ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/ICSI/ABS	IPDM E/R
ENGINE	-	NG	UNKWN		UNKWN		UNKWN		UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN		UNKWN			UNKWN	UNKWN	UNKWN
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7	
METER A/C AMP	No indication	UNKWN	UNKWN	UNKWN	UNKWN			UNKWN	UNKWN	UNKWN	
BCM	No indication	NG	UNKWN	UNKWN		UNKWN				UNKWN	
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-		
IPDM E/R	No indication		UNKWN	UNKWN					UNKWN		

WKIA2287E

Case 20

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-397](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									
		Initial diagnosis	Transmit diagnosis	ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/ICSI/ABS	IPDM E/R
ENGINE	-	NG	UNKWN		UNKWN		UNKWN		UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN		UNKWN			UNKWN	UNKWN	UNKWN
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7	
METER A/C AMP	No indication	UNKWN	UNKWN	UNKWN	UNKWN			UNKWN	UNKWN	UNKWN	
BCM	No indication	NG	UNKWN	UNKWN		UNKWN				UNKWN	
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-		
IPDM E/R	No indication		UNKWN	UNKWN					UNKWN		

WKIA2288E

Case 21

Check IPDM E/R circuit. Refer to [LAN-398](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									
		Initial diagnosis	Transmit diagnosis	ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/ICSI/ABS	IPDM E/R
ENGINE	-	NG	UNKWN		UNKWN		UNKWN		UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN		UNKWN			UNKWN	UNKWN	UNKWN
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7	
METER A/C AMP	No indication	UNKWN	UNKWN	UNKWN	UNKWN			UNKWN	UNKWN	UNKWN	
BCM	No indication	NG	UNKWN	UNKWN		UNKWN				UNKWN	
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-		
IPDM E/R	No indication		UNKWN	UNKWN					UNKWN		

WKIA2289E

Case 22

Check CAN communication circuit. Refer to [LAN-399](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									
		Initial diagnosis	Transmit diagnosis	ECM	TCM	DISPLAY	METER/M&A	STRG	BCM/SEC	VDC/ICSI/ABS	IPDM E/R
ENGINE	-	NG	UNKWN		UNKWN		UNKWN		UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN		UNKWN			UNKWN	UNKWN	UNKWN
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7	
METER A/C AMP	No indication	UNKWN	UNKWN	UNKWN	UNKWN			UNKWN	UNKWN	UNKWN	
BCM	No indication	NG	UNKWN	UNKWN		UNKWN				UNKWN	
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	-	
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-		
IPDM E/R	No indication		UNKWN	UNKWN					UNKWN		

WKIA2290E

CAN SYSTEM (TYPE 16)

[CAN]

Case 23

Check IPDM E/R Ignition relay circuit. Refer to [LAN-399](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/ M&A	STRG	BCM/SEC	VDC/HCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW		UNKW		UNKW		UNKW	UNKW	UNKW
TRANSMISSION	No indication	NG	UNKW	UNKW			UNKW			UNKW	
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication		UNKW	UNKW	UNKW	UNKW			UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW			UNKW				UNKW
AUTO DRIVE POS	No indication	NG	UNKW	-	UNKW	-	UNKW	-	UNKW	-	-
ABS	-	NG	UNKW	UNKW	UNKW			UNKW			
IPDM E/R	No indication		UNKW	UNKW					UNKW		

WKIA2292E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNT'R									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/ M&A	STRG	BCM/SEC	VDC/HCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKW		UNKW		UNKW		UNKW	UNKW	UNKW
TRANSMISSION	No indication	NG	UNKW	UNKW			UNKW			UNKW	
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	-	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication		UNKW	UNKW	UNKW	UNKW			UNKW	UNKW	UNKW
BCM	No indication	NG	UNKW	UNKW			UNKW				UNKW
AUTO DRIVE POS	No indication	NG	UNKW	-	UNKW	-	UNKW	-	UNKW	-	-
ABS	-	NG	UNKW	UNKW	UNKW			UNKW			
IPDM E/R	No indication		UNKW	UNKW					UNKW		

WKIA2293E

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LAN

Circuit Check Between TCM and Data Link Connector

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

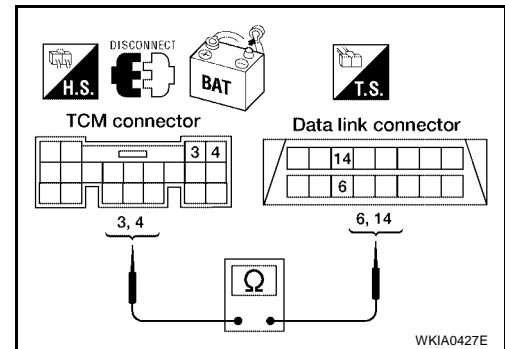
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between TCM connector F56 terminals 3 (L), 4 (Y) and data link connector M22 terminals 6 (L), 14 (Y).

- 3 (L) - 6 (L) : Continuity should exist.**
4 (Y) - 14 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-380, "Work Flow"](#).
 NG >> Repair harness.



Circuit Check Between Driver Seat Control Unit and Data Link Connector

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

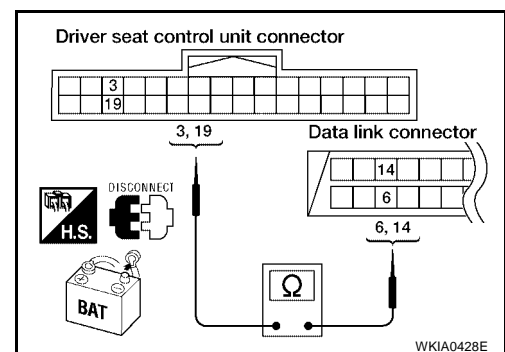
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and data link connector M22 terminals 6 (L), 14 (Y).

- 3 (BR) - 6 (L) : Continuity should exist.**
19 (Y/G) - 14 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-380](#).
 NG >> Repair harness.



Circuit Check Between Driver Seat Control Unit and ABS Actuator and Electric Unit (Control Unit)

EKS00A02

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2, ABS actuator and electric unit (control unit) connector E125 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

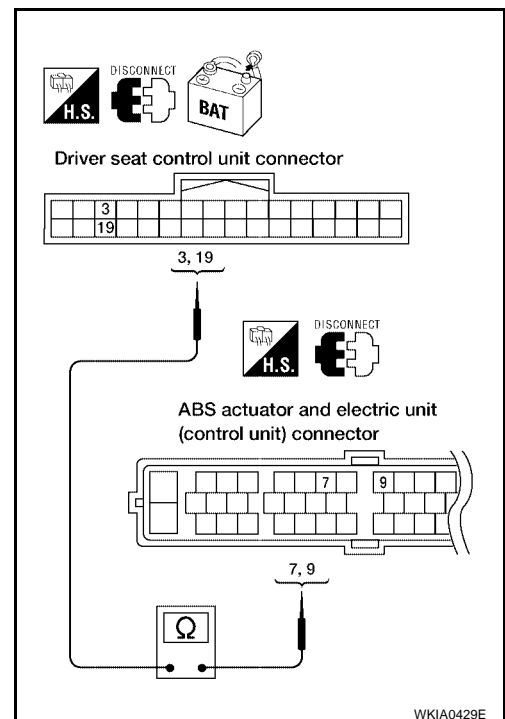
Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and ABS actuator and electric unit (control unit) connector E125 terminals 7 (L), 9 (Y).

3 (BR) - 7 (L) : Continuity should exist.

19 (Y/G) - 9 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-380](#).
 NG >> Repair harness.



ECM Circuit Check

EKS00A03

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

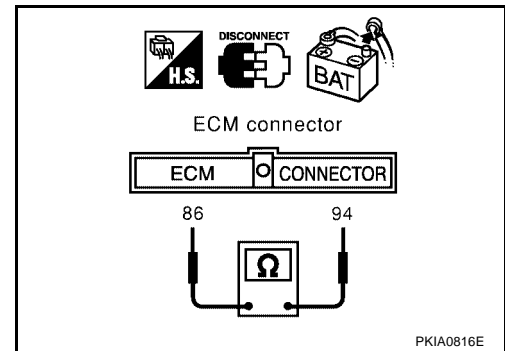
Check resistance between ECM connector M82 terminal 94 (L) and terminal 86 (Y).

94 (L) - 86 (Y)

: Approx. 108 - 132Ω

OK or NG

- OK >> Replace ECM.
 NG >> Repair harness between ECM connector M82 and TCM connector F56.



EKS00A04

TCM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

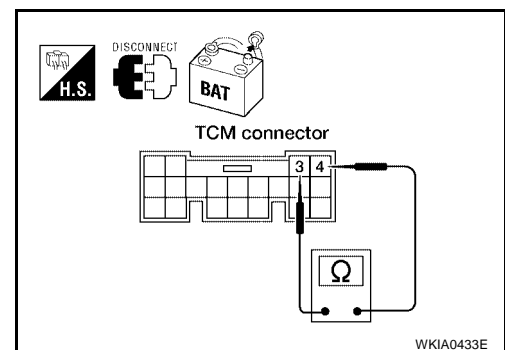
Check resistance between TCM connector F56 terminal 3 (L) and terminal 4 (Y).

3 (L) - 4 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace TCM.
 NG >> Repair harness between TCM connector F56 and ECM connector M82.



EKS00A05

Display Control Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect display control unit connector M95.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

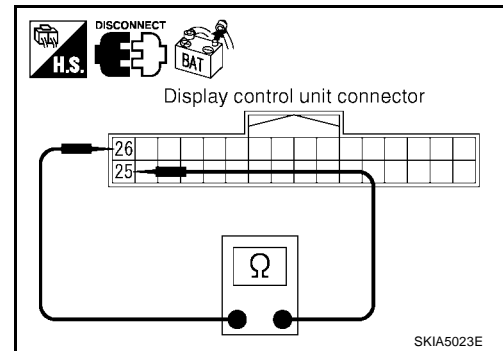
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between display control unit connector M95 terminal 25 (L) and terminal 26 (Y).

25 (L) - 26 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace display control unit.
 NG >> Repair harness between display control unit connector M95 and data link connector M22.



Data Link Connector Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Check data link connector M22 terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

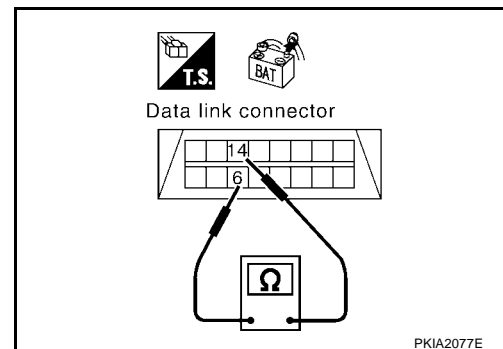
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector M22 terminal 6 (L) and terminal 14 (Y).

6 (L) - 14 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-380](#).
 NG >> Repair harness between data link connector M22 and BCM connector M18.



BCM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect BCM connector M18.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

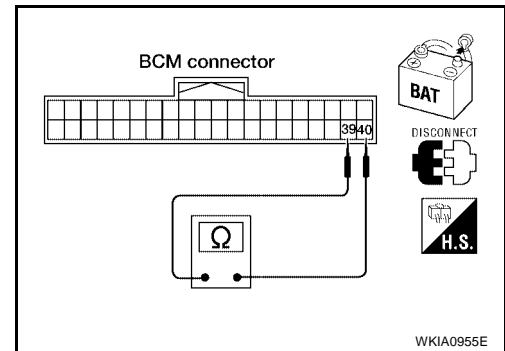
Check resistance between BCM connector M18 terminal 39 (L) and terminal 40 (Y).

39 (L) - 40 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace BCM.
 NG >> Repair harness between BCM connector M18 and data link connector M22.



EKS00A08

Unified Meter and A/C Amp. Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect unified meter and A/C amp. connector M49.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

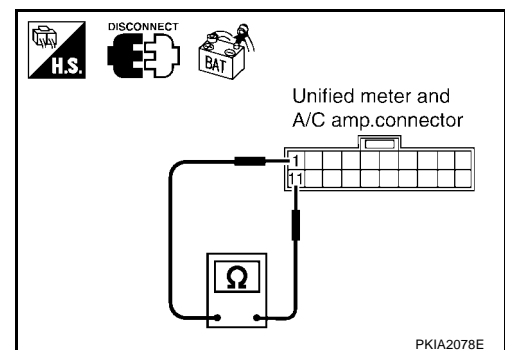
Check resistance between unified meter and A/C amp. connector M49 terminal 1 (L) and terminal 11 (Y).

1 (L) - 11 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace unified meter and A/C amp.
 NG >> Repair harness between unified meter and A/C amp. connector M49 and data link connector M22.



EKS00A09

Steering Angle Sensor Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect steering angle sensor connector M47.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

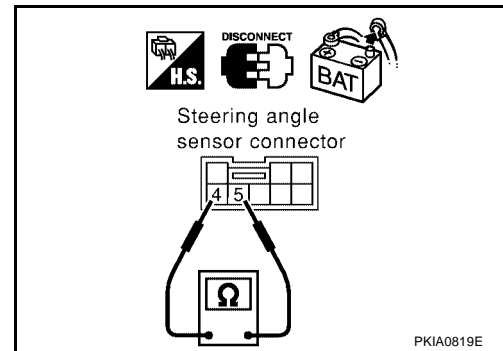
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between steering angle sensor connector M47 terminal 4 (L) and terminal 5 (Y).

4 (L) - 5 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace steering angle sensor.
 NG >> Repair harness between steering angle sensor connector M47 and data link connector M22.



Driver Seat Control Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

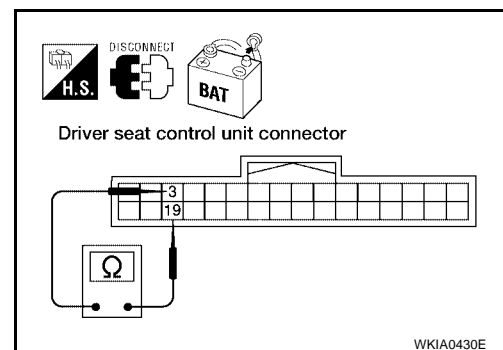
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between driver seat control unit connector P2 terminal 3 (BR) and terminal 19 (Y/G).

3 (BR) - 19 (Y/G) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace driver seat control unit.
 NG >> Repair harness between driver seat control unit connector P2 and data link connector M22.



ABS Actuator and Electric Unit (Control Unit) Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ABS actuator and electric unit (control unit) connector E125.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

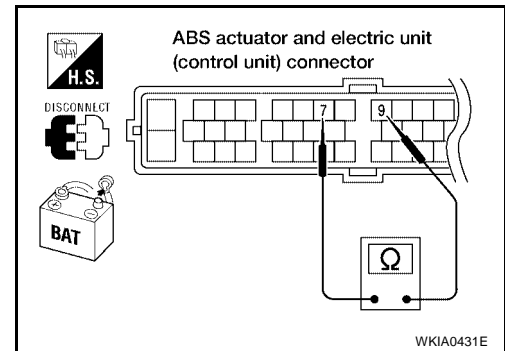
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between ABS actuator and electric unit (control unit) connector E125 terminal 7 (L) and terminal 9 (Y).

7 (L) - 9 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace ABS actuator and electric unit (control unit).
 NG >> Repair harness between ABS actuator and electric unit (control unit) connector E125 and IPDM E/R connector E121.



EKS00A0C

IPDM E/R Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect IPDM E/R connector E121.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

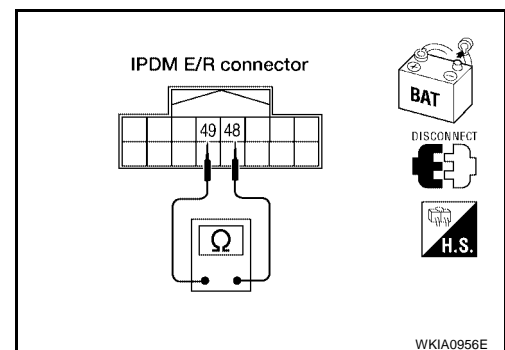
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between IPDM E/R connector E121 terminal 48 (L) and terminal 49 (Y).

48 (L) - 49 (Y) : Approx. 108 - 132Ω

OK or NG

- OK >> Replace IPDM E/R.
 NG >> Repair harness between IPDM E/R connector E121 and ABS actuator and electric unit (control unit) connector E125.



CAN Communication Circuit Check**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect the following module and control unit connectors and check terminals for deformation, disconnection, looseness or damage.
 - ECM
 - TCM (Transmission control module)
 - Display control unit
 - BCM (Body control module)
 - Unified meter and A/C amp.
 - Steering angle sensor
 - Driver seat control unit
 - ABS actuator and electric unit (control unit)
 - IPDM E/R (Intelligent power distribution module engine room)

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

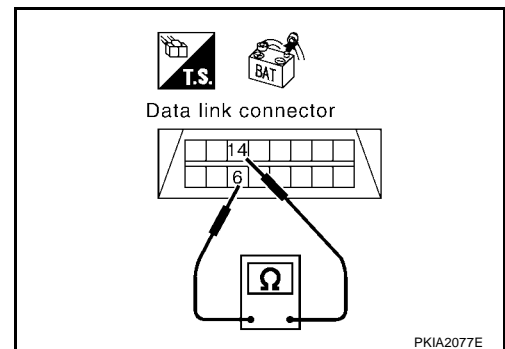
2. CHECK HARNESS FOR SHORTED CIRCUITS

With all module and control unit connectors disconnected, check continuity between data link connector M22 terminals 6 (L) and 14 (Y).

6 (L) - 14 (Y) : Continuity should not exist.

OK or NG

- OK >> GO TO 3.
 NG >> Repair the harness.

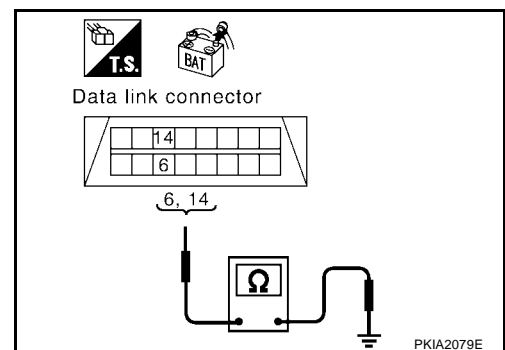
**3. CHECK HARNESS FOR SHORT TO GROUND**

Check continuity between data link connector M22 terminals 6 (L), 14 (Y) and ground.

6 (L) - Ground : Continuity should not exist.
14 (Y) - Ground : Continuity should not exist.

OK or NG

- OK >> Check ECM and IPDM E/R. Refer to [LAN-400, "Component Inspection"](#).
 NG >> Repair the harness.

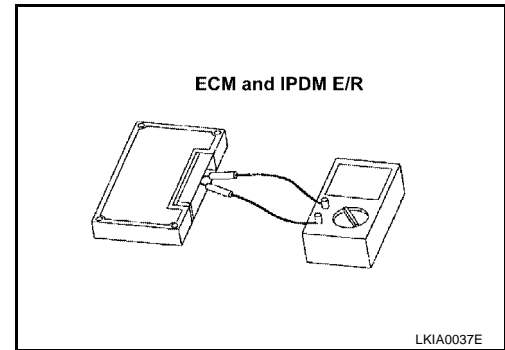
**IPDM E/R Ignition Relay Circuit Check**

Check the following. If no problem is found, replace the IPDM E/R.

- IPDM E/R power supply circuit. Refer to [PG-24, "IPDM E/R Power/Ground Circuit Inspection"](#).
- Ignition power supply circuit. Refer to [PG-11, "IGNITION POWER SUPPLY — IGNITION SW. IN ON AND/OR START"](#).

Component Inspection**ECM/IPDM E/R INTERNAL CIRCUIT INSPECTION**

- Remove ECM and IPDM E/R from vehicle.
- Check resistance between ECM terminals 94 and 86.
94 - 86 : Approx. 108 - 132Ω
- Check resistance between IPDM E/R terminals 48 and 49.
48 - 49 : Approx. 108 - 132Ω



CAN SYSTEM (TYPE 17)

PFP:23710

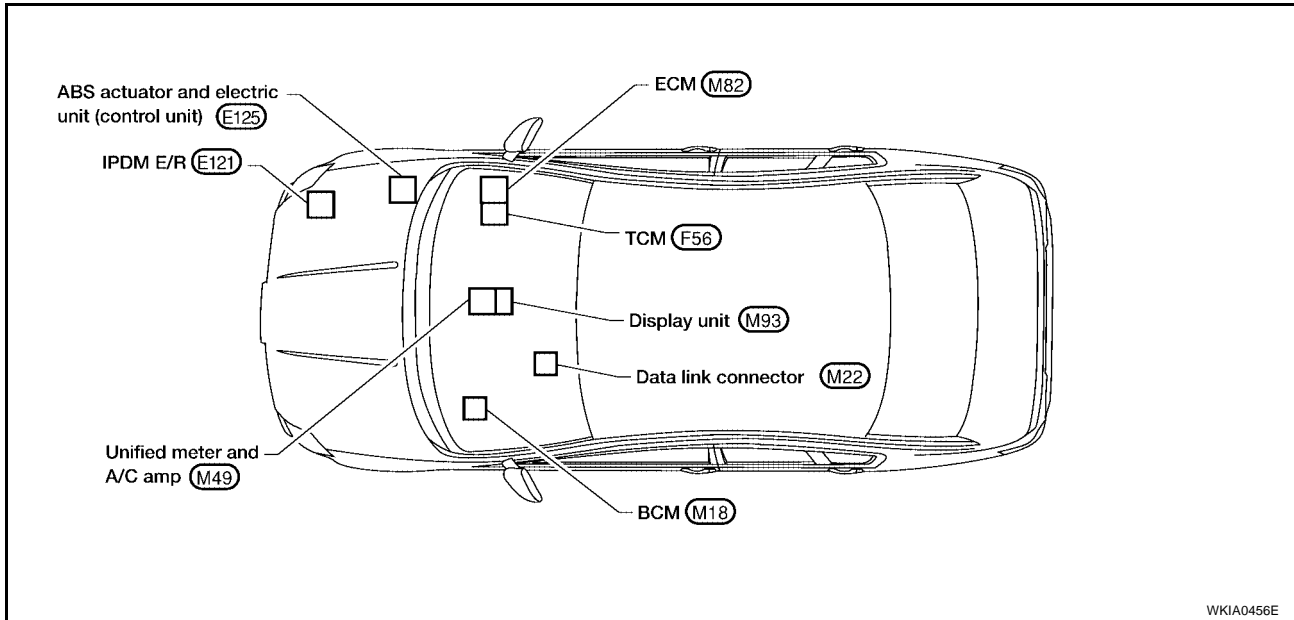
System Description

EKS009ZD

CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H line, CAN L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

Component Parts and Harness Connector Location

EKS009ZE



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L
M

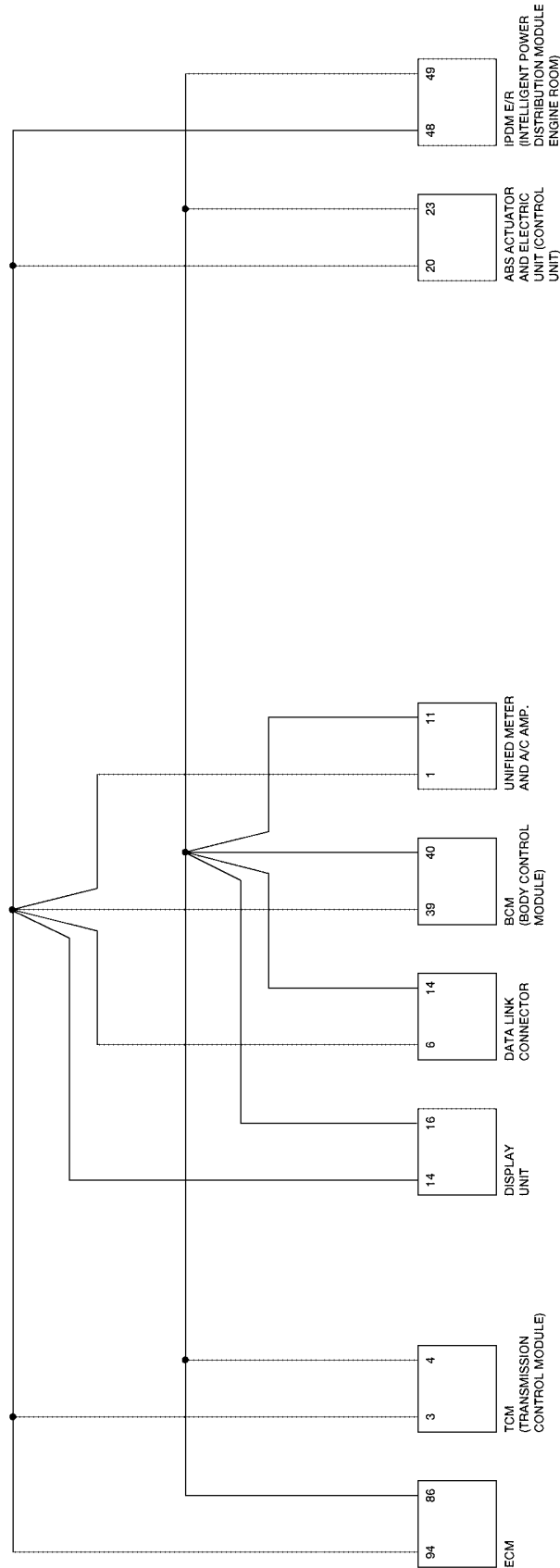
LAN

CAN SYSTEM (TYPE 17)

[CAN]

Schematic

EKS009ZF



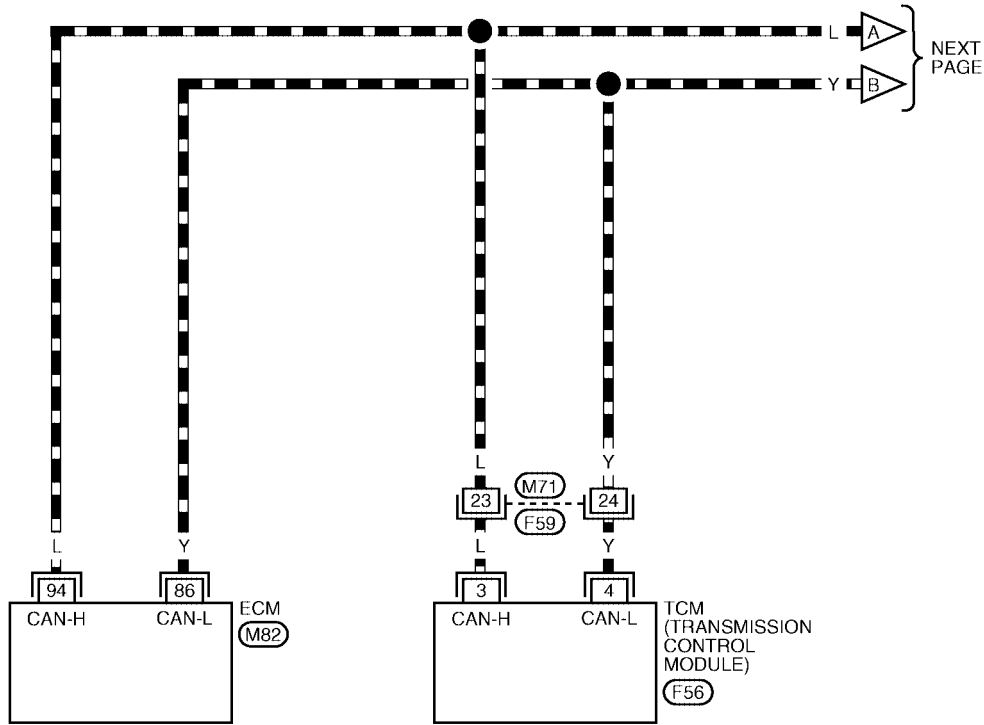
WKWA0468E

Wiring Diagram - CAN -

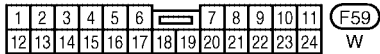
EKS0092G

LAN-CAN-49

— : DATA LINE



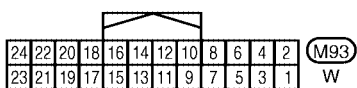
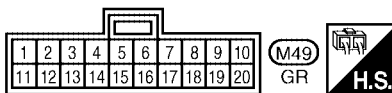
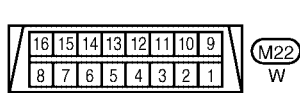
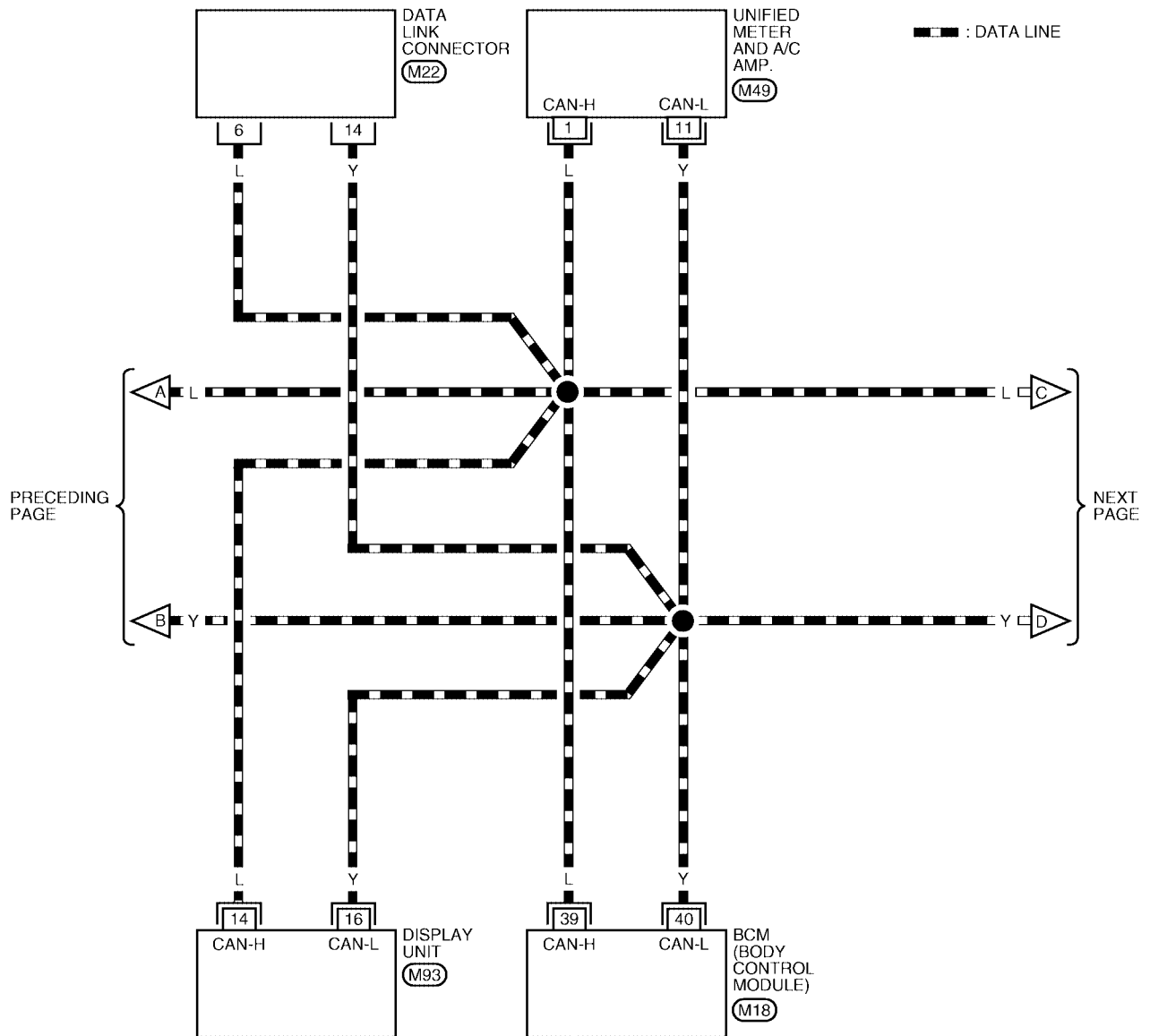
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REFER TO THE FOLLOWING.
(M82), (F56) - ELECTRICAL
UNITS

BKWA0246E

LAN-CAN-50

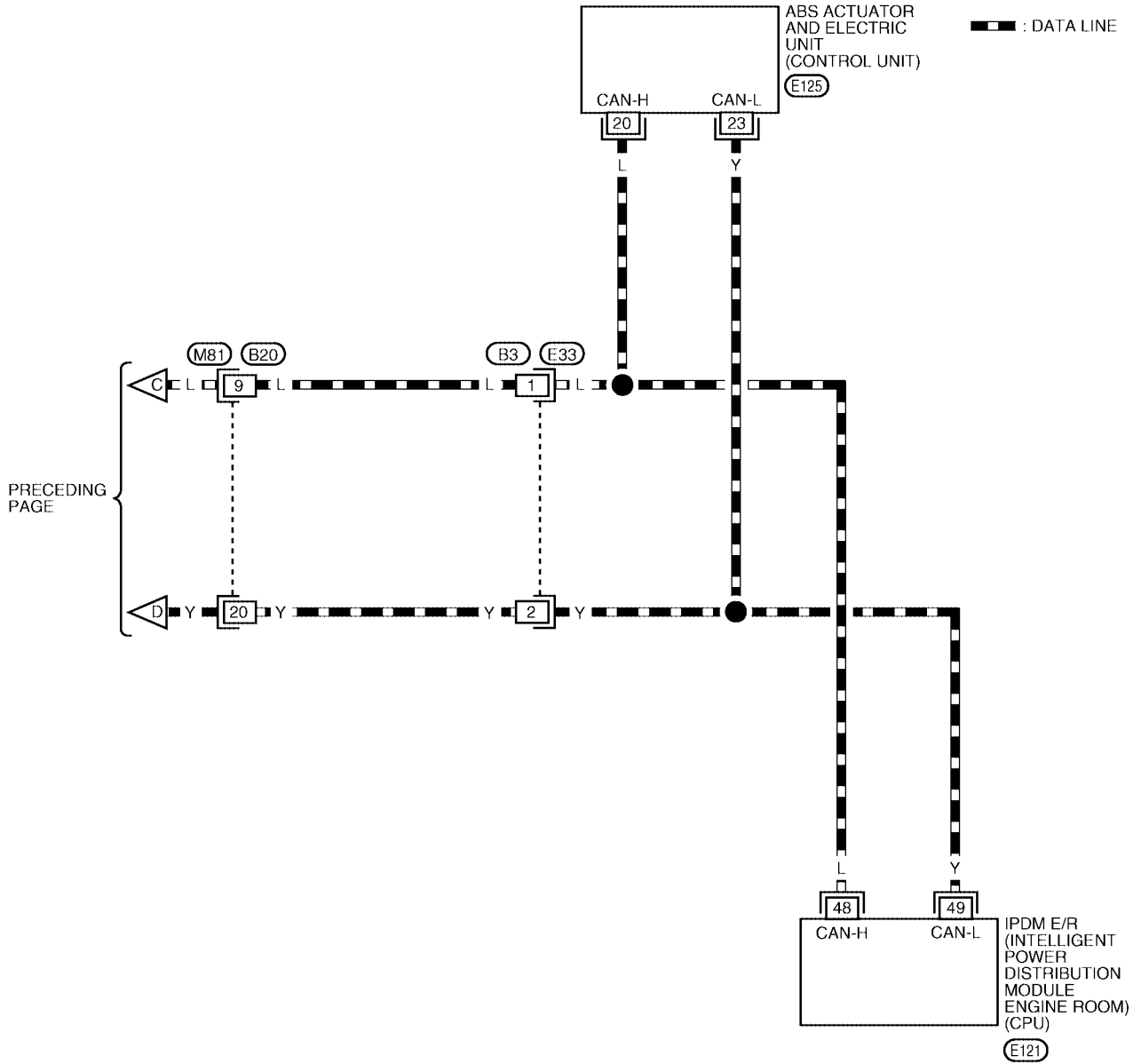


REFER TO THE FOLLOWING.

(M18) - ELECTRICAL UNITS

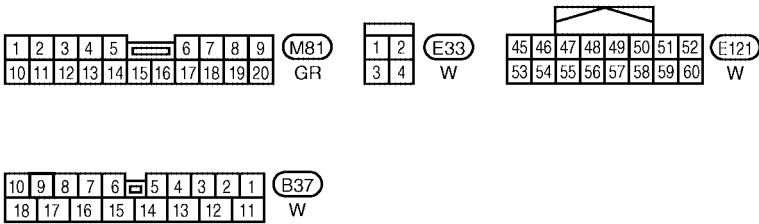
BKWA0247E

LAN-CAN-51



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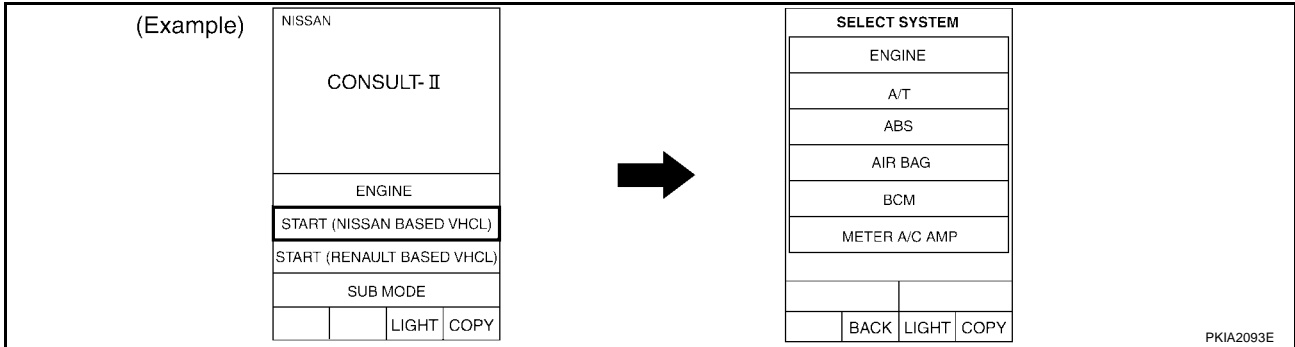


REFER TO THE FOLLOWING.
E125 - ELECTRICAL UNITS

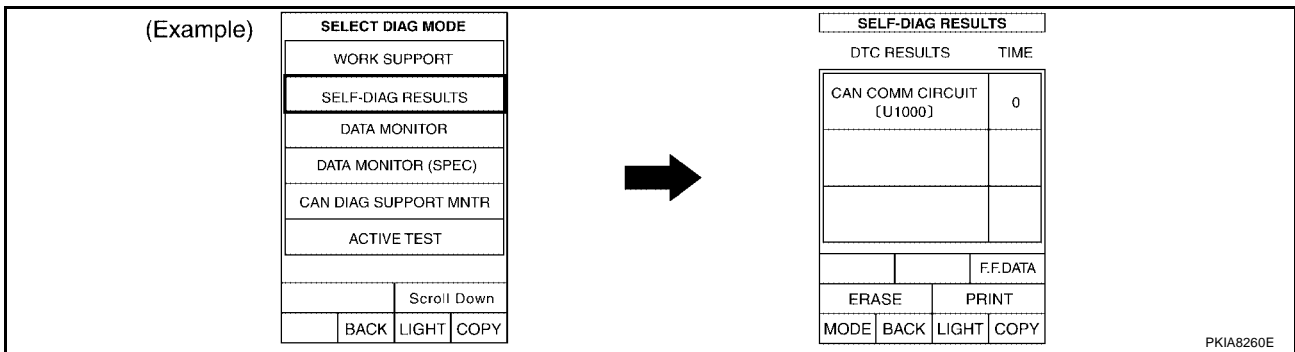
BKWA0248E

Work Flow

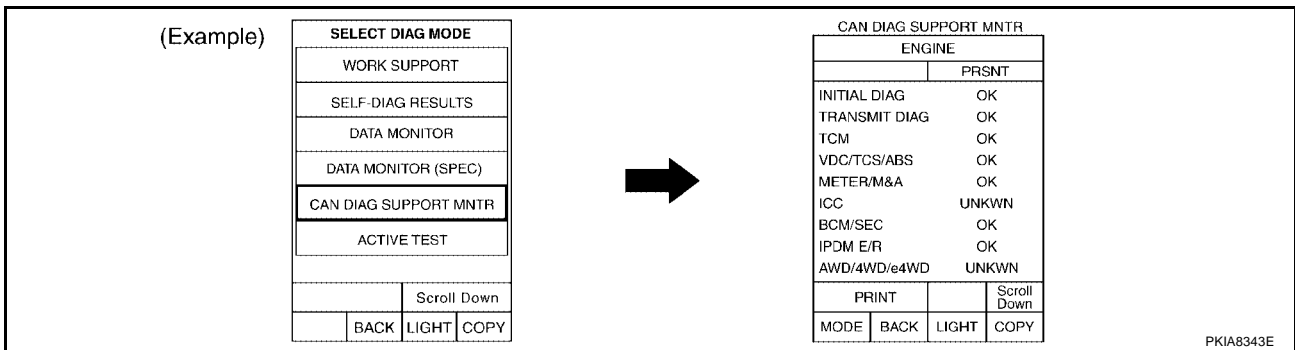
- When there are no indications of "TRANSMISSION", "BCM", "IPDM E/R" or "METER A/C AMP" on "SELECT SYSTEM" display of CONSULT-II, print the "SELECT SYSTEM".



- Print all the data of "SELF-DIAG RESULTS" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Print all the data of "CAN DIAG SUPPORT MNTR" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Based on the indications of "SELECT SYSTEM" and the results of "CAN DIAG SUPPORT MNTR", put marks onto the items with "No indication", "NG", or "UNKWN" in the check sheet table.

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR									
	Initial diagnosis	Transmit diagnosis	Receive diagnosis							
			ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R	
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	-	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

BKIA0067E

NOTE:

- If "NG" is displayed on "INITIAL DIAG (Initial diagnosis)" as "CAN DIAG SUPPORT MNTR" for the diagnosed control unit, replace the control unit.

CAN SYSTEM (TYPE 17)

[CAN]

-
- The “CAN DIAG SUPPORT MNTR” items which are not in check sheet table are not related to diagnostic procedure on service manual.
Therefore, it is not necessary to check the status of the “CAN DIAG SUPPORT MNTR” items not in check sheet table.
5. Mark the “NG” or “UNKWN” item of the check sheet table from the result of CAN DIAG SUPPORT MONITOR check sheet.
- NOTE:**
If “NG” is displayed on “CAN COMM” as “CAN DIAG SUPPORT MNTR” for the diagnosed control unit, replace the control unit.
6. According to the Check Sheet Results, start inspection.

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CAN SYSTEM (TYPE 17)

[CAN]

CHECK SHEET

Check sheet table

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
ECM	TCM			DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R		
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

Symptoms:

Attach copy of
SELECT SYSTEM

Attach copy of
SELECT SYSTEM

Attach copy of
display unit
CAN DIAG MONITOR
check sheet

BKIA0077E

CAN SYSTEM (TYPE 17)

[CAN]

Attach copy of ENGINE SELF-DIAG RESULTS	Attach copy of TRANSMISSION SELF-DIAG RESUL	Attach copy of ABS SELF-DIAG RESULTS
Attach copy of BCM SELF-DIAG RESULTS	Attach copy of METER A/C AMP SELF-DIAG RESULTS	Attach copy of IPDM E/R SELF-DIAG RESULTS
Attach copy of ENGINE CAN DIAG SUPPORT MNTR	Attach copy of TRANSMISSION CAN DIAG SUPPORT MNTR	Attach copy of ABS CAN DIAG SUPPORT MNTR
Attach copy of BCM CAN DIAG SUPPORT MNTR	Attach copy of METER A/C AMP CAN DIAG SUPPORT MNTR	Attach copy of IPDM E/R CAN DIAG SUPPORT MNTR

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BKIA0084E

CAN SYSTEM (TYPE 17)

[CAN]

CHECK SHEET RESULTS

Case 1

Replace ECM.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R	
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7	
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN	
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	

WKIA2294E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R	
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7	
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN	
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	

WKIA2295E

Case 2

Replace TCM.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R	
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7	
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN	
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	

WKIA2296E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis							
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R	
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7	
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN	
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	

WKIA2298E

CAN SYSTEM (TYPE 17)

[CAN]

Case 3

Replace display unit.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	TCM	DISPLAY	METER/MKA	BCM/SEC	VDC/CS/AHS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2299E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	TCM	DISPLAY	METER/MKA	BCM/SEC	VDC/CS/AHS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2300E

Case 4

Replace BCM.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	TCM	DISPLAY	METER/MKA	BCM/SEC	VDC/CS/AHS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2301E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	TCM	DISPLAY	METER/MKA	BCM/SEC	VDC/CS/AHS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2302E

CAN SYSTEM (TYPE 17)

[CAN]

Case 5

Replace unified meter and A/C amp.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						VDC/TCS/AHS	IPDM E/R
				ECM	TCM	DISP LAY	METER/M&A	BCM/SEC			
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2		CAN 7	
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN			UNKWN	
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	

WKIA2303E

Case 6

Replace ABS actuator and electric unit (control unit).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						VDC/TCS/AHS	IPDM E/R
				ECM	TCM	DISP LAY	METER/M&A	BCM/SEC			
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2		CAN 7	
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN			UNKWN	
ABS	-	✓	UNKWN	UNKWN	UNKWN	-	-	-	-	-	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	

WKIA2304E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						VDC/TCS/AHS	IPDM E/R
				ECM	TCM	DISP LAY	METER/M&A	BCM/SEC			
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2		CAN 7	
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN			UNKWN	
ABS	-	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	-	-	-	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	

WKIA2305E

Case 7

Replace IPDM E/R.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR									
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						VDC/TCS/AHS	IPDM E/R
				ECM	TCM	DISP LAY	METER/M&A	BCM/SEC			
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2		CAN 7	
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN			UNKWN	
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-	
IPDM E/R	No indication	-	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	-	

WKIA2306E

CAN SYSTEM (TYPE 17)

[CAN]

Case 8

Check harness between TCM and data link connector. Refer to [LAN-417](#).

SHELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR							
				Receive diagnosis							
				ECM	TCM	DISPLAY	ME-TR/ MKA	BCM/SEC	VDC/CS/ ABS	IPDM E/R	
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication ✓	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7	-
MF-TR A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
RCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-

WKIA2308E

Case 9

Check harness between data link connector and ABS actuator and electric unit (control unit). Refer to [LAN-417](#).

SHELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR							
				Receive diagnosis							
				ECM	TCM	DISPLAY	ME-TR/ MKA	BCM/SEC	VDC/CS/ ABS	IPDM E/R	
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7	-
MF-TR A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
RCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication ✓	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-

WKIA2309E

Case 10

Check ECM circuit. Refer to [LAN-418](#).

SHELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR							
				Receive diagnosis							
				ECM	TCM	DISPLAY	ME-TR/ MKA	BCM/SEC	VDC/CS/ ABS	IPDM E/R	
ENGINE	-	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7	-
MF-TR A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
RCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-

WKIA2310E

Case 11

Check TCM circuit. Refer to [LAN-419](#).

SHELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR							
				Receive diagnosis							
				ECM	TCM	DISPLAY	ME-TR/ MKA	BCM/SEC	VDC/CS/ ABS	IPDM E/R	
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication ✓	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7	-
MF-TR A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
RCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	-

WKIA2311E

CAN SYSTEM (TYPE 17)

[CAN]

Case 12

Check display unit circuit. Refer to [LAN-419](#).

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				Receive diagnosis						
				ECM	TCM	DISP LAY	METER/MKA	BCM/SEC	VDC/CS/AHS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-
Display unit	-	CAN COMM	✓1	✓3	-	-	✓5	✓2	-	✓7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2312E

Case 13

Check data link connector circuit. Refer to [LAN-420](#).

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				Receive diagnosis						
				ECM	TCM	DISP LAY	METER/MKA	BCM/SEC	VDC/CS/AHS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	UNKWN	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2313E

Case 14

Check BCM circuit. Refer to [LAN-420](#).

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				Receive diagnosis						
				ECM	TCM	DISP LAY	METER/MKA	BCM/SEC	VDC/CS/AHS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	✓2	-	CAN 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2315E

Case 15

Check unified meter and A/C amp. circuit. Refer to [LAN-421](#).

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				Receive diagnosis						
				ECM	TCM	DISP LAY	METER/MKA	BCM/SEC	VDC/CS/AHS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	✓5	CAN 2	-	CAN 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2316E

CAN SYSTEM (TYPE 17)

[CAN]

Case 16

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-421](#).

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				Receive diagnosis						
				ECM	TCM	DISP LAY	MF-TER/ MKA	BCM/SEC	VDC/CS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	UNKWN	CAN 7
MF-TER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	UNKWN
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2317E

Case 17

Check IPDM E/R circuit. Refer to [LAN-422](#).

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				Receive diagnosis						
				ECM	TCM	DISP LAY	MF-TER/ MKA	BCM/SEC	VDC/CS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	UNKWN	UNKWN
MF-TER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	UNKWN
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2318E

Case 18

Check CAN communication circuit. Refer to [LAN-422](#).

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				Receive diagnosis						
				ECM	TCM	DISP LAY	MF-TER/ MKA	BCM/SEC	VDC/CS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	UNKWN	UNKWN
MF-TER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	UNKWN
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2319E

Case 19

Check IPDM E/R Ignition relay circuit. Refer to [LAN-423](#).

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				Receive diagnosis						
				ECM	TCM	DISP LAY	MF-TER/ MKA	BCM/SEC	VDC/CS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	UNKWN	CAN 7
MF-TER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	UNKWN
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	UNKWN	UNKWN
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2320E

CAN SYSTEM (TYPE 17)

[CAN]

SELECT SYSTEM screen		CAN DIAG SUPPORT MONTR								
		Initial diagnosis	Transmit diagnosis	Receives diagnosis						
				ECM	TCM	DISPLAY	METER/MKA	BCM/SEC	VDC/CS/AHS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2321E

Circuit Check Between TCM and Data Link Connector**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

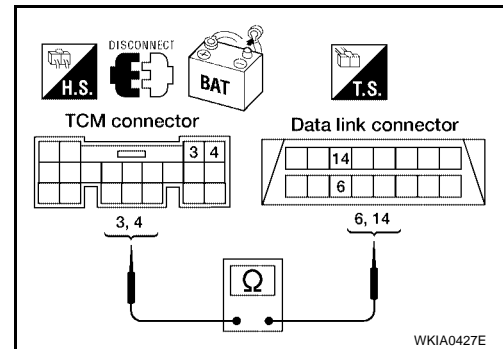
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between TCM connector F56 terminals 3 (L), 4 (Y) and data link connector M22 terminals 6 (L), 14 (Y).

- 3 (L) - 6 (L) : Continuity should exist.**
4 (Y) - 14 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-406, "Work Flow"](#).
 NG >> Repair harness.

**Circuit Check Between Data Link Connector and ABS Actuator and Electric Unit (Control Unit)****1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ABS actuator and electric unit (control unit) connector E125 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

A

B

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D

E

F

G

H

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J

LAN

L

M

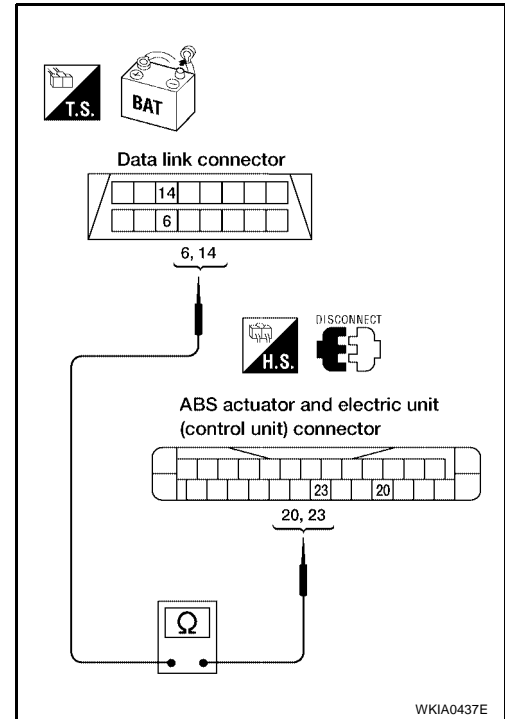
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between data link connector M22 terminals 6 (L), 14 (Y) and ABS actuator and electric unit (control unit) connector E125 terminals 20 (L), 23 (Y).

6 (L) - 20 (L) : Continuity should exist.
14 (Y) - 23 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-406](#).
 NG >> Repair harness.



ECM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

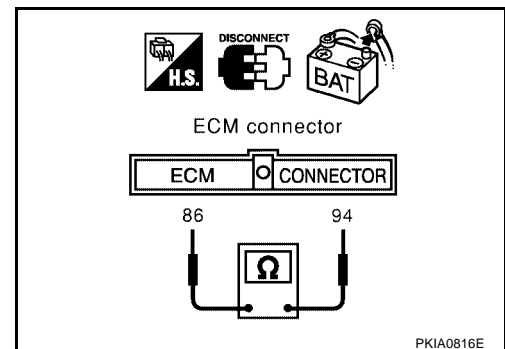
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between ECM connector M82 terminal 94 (L) and terminal 86 (Y).

94 (L) - 86 (Y) : Approx. 108 - 132Ω

OK or NG

- OK >> Replace ECM.
 NG >> Repair harness between ECM connector M82 and TCM connector F56.



TCM Circuit Check**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

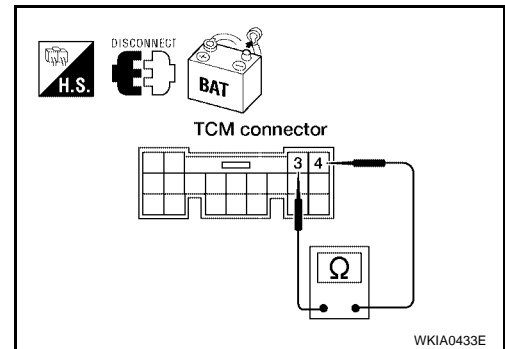
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between TCM connector F56 terminal 3 (L) and terminal 4 (Y).

3 (L) - 4 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace TCM.
 NG >> Repair harness between TCM connector F56 and ECM connector M82.

**Display Unit Circuit Check****1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect display unit connector M93.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

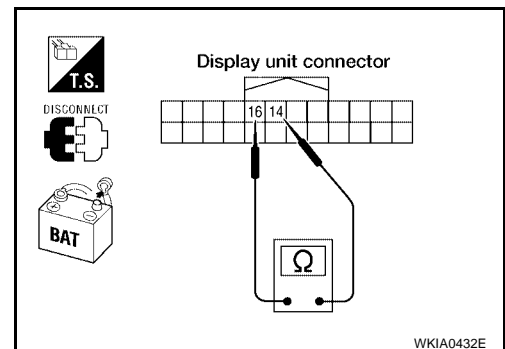
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between display unit connector M93 terminal 25 (L) and terminal 26 (Y).

14 (L) - 16 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace display unit.
 NG >> Repair harness between display unit connector M93 and data link connector M22.



Data Link Connector Circuit Check**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Check data link connector M22 terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

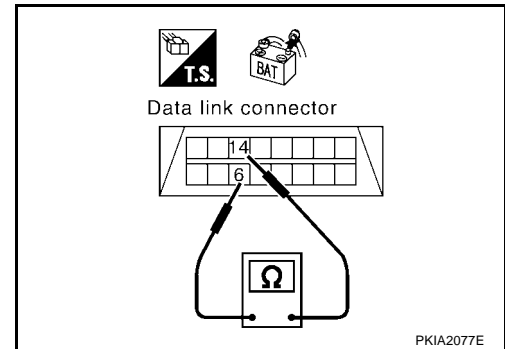
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector M22 terminal 6 (L) and terminal 14 (Y).

6 (L) - 14 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-406](#).
 NG >> Repair harness between data link connector M22 and BCM connector M18.

**BCM Circuit Check****1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect BCM connector M18.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

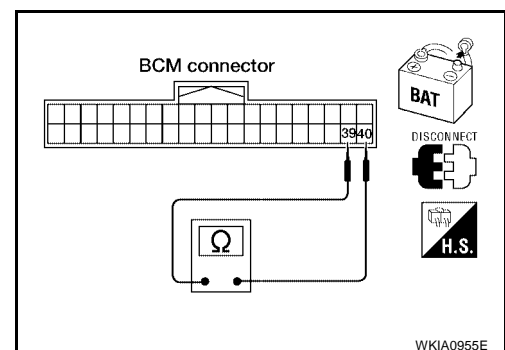
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between BCM connector M18 terminal 39 (L) and terminal 40 (Y).

39 (L) - 40 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace BCM.
 NG >> Repair harness between BCM connector M18 and data link connector M22.



Unified Meter and A/C Amp. Circuit Check**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect unified meter and A/C amp. connector M49.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

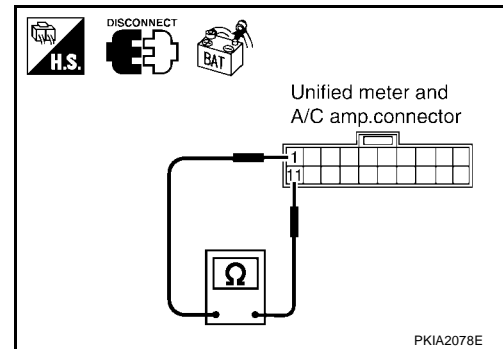
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between unified meter and A/C amp. connector M49 terminal 1 (L) and terminal 11 (Y).

1 (L) - 11 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace unified meter and A/C amp.
 NG >> Repair harness between unified meter and A/C amp. connector M49 and data link connector M22.

**ABS Actuator and Electric Unit (Control Unit) Circuit Check****1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ABS actuator and electric unit (control unit) connector E125.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

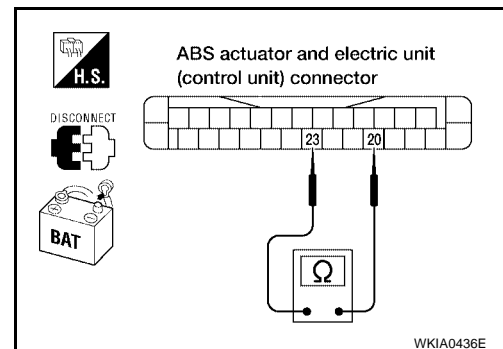
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between ABS actuator and electric unit (control unit) connector E125 terminal 20 (L) and terminal 23 (Y).

20 (L) - 23 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace ABS actuator and electric unit (control unit).
 NG >> Repair harness between ABS actuator and electric unit (control unit) connector E125 and IPDM E/R connector E121.



IPDM E/R Circuit Check**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect IPDM E/R connector E121.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

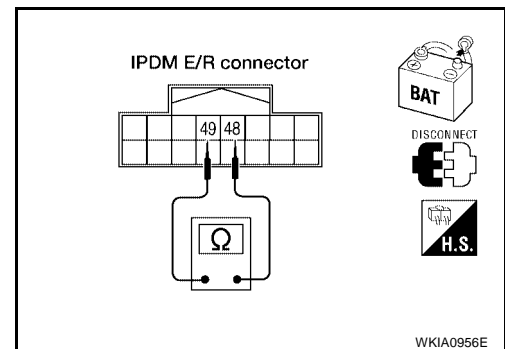
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between IPDM E/R connector E121 terminal 48 (L) and terminal 49 (Y).

48 (L) - 49 (Y) : Approx. 108 - 132Ω

OK or NG

- OK >> Replace IPDM E/R.
 NG >> Repair harness between IPDM E/R connector E121 and ABS actuator and electric unit (control unit) connector E125.

**CAN Communication Circuit Check****1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect the following module and control unit connectors and check terminals for deformation, disconnection, looseness or damage.
 - ECM
 - TCM (Transmission control module)
 - Display unit
 - BCM (Body control module)
 - Unified meter and A/C amp.
 - ABS actuator and electric unit (control unit)
 - IPDM E/R (Intelligent power distribution module engine room)

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

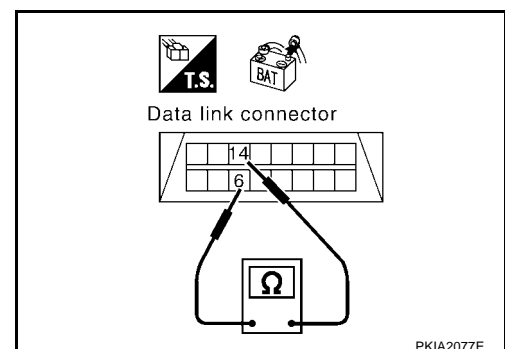
2. CHECK HARNESS FOR SHORTED CIRCUITS

With all module and control unit connectors disconnected, check continuity between data link connector M22 terminals 6 (L) and 14 (Y).

6 (L) - 14 (Y) : Continuity should not exist.

OK or NG

- OK >> GO TO 3.
 NG >> Repair the harness.



3. CHECK HARNESS FOR SHORT TO GROUND

Check continuity between data link connector M22 terminals 6 (L), 14 (Y) and ground.

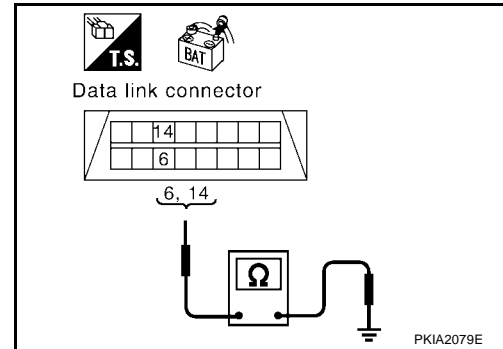
6 (L) - Ground : Continuity should not exist.

14 (Y) - Ground : Continuity should not exist.

OK or NG

OK >> Check ECM and IPDM E/R. Refer to [LAN-423, "Component Inspection"](#).

NG >> Repair the harness.



EKS009ZT

IPDM E/R Ignition Relay Circuit Check

Check the following. If no problem is found, replace the IPDM E/R.

- IPDM E/R power supply circuit. Refer to [PG-24, "IPDM E/R Power/Ground Circuit Inspection"](#).
- Ignition power supply circuit. Refer to [PG-11, "IGNITION POWER SUPPLY — IGNITION SW. IN ON AND/OR START"](#).

EKS009ZU

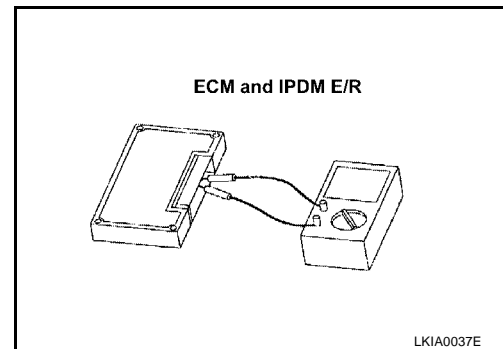
Component Inspection

ECM/IPDM E/R INTERNAL CIRCUIT INSPECTION

- Remove ECM and IPDM E/R from vehicle.
- Check resistance between ECM terminals 94 and 86.

94 - 86 : Approx. 108 - 132Ω
- Check resistance between IPDM E/R terminals 48 and 49.

48 - 49 : Approx. 108 - 132Ω



LKIA0037E

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LAN

CAN SYSTEM (TYPE 18)

PFP:23710

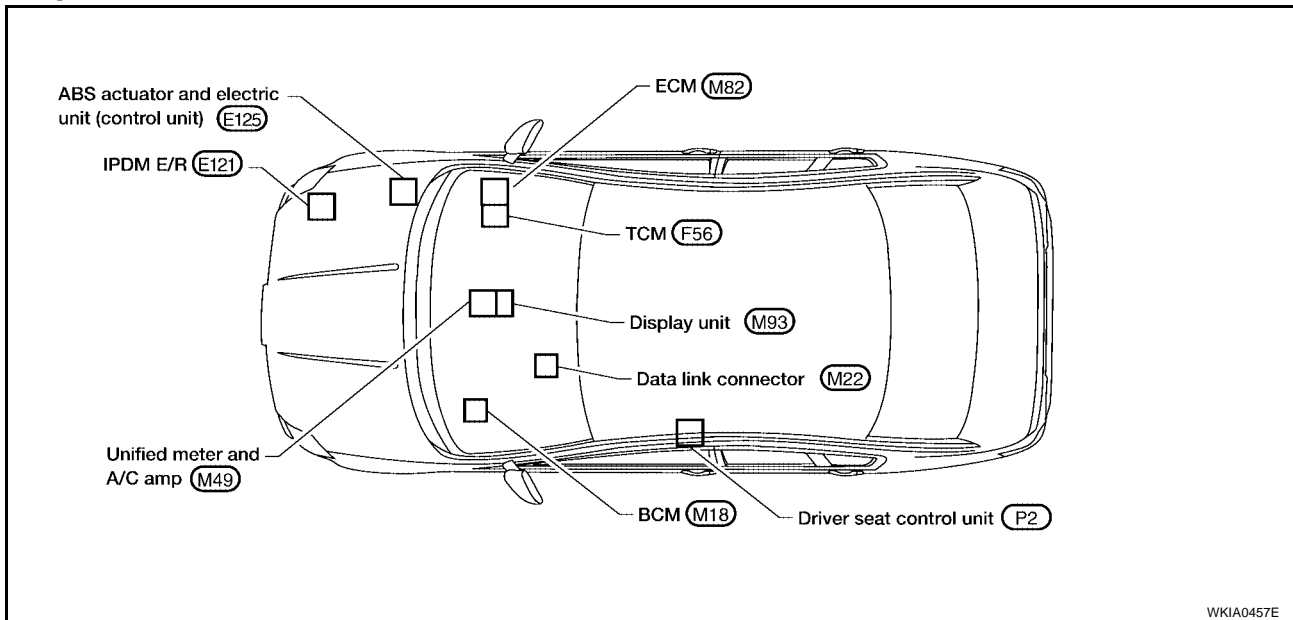
System Description

EKS009YT

CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H line, CAN L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

Component Parts and Harness Connector Location

EKS009YU

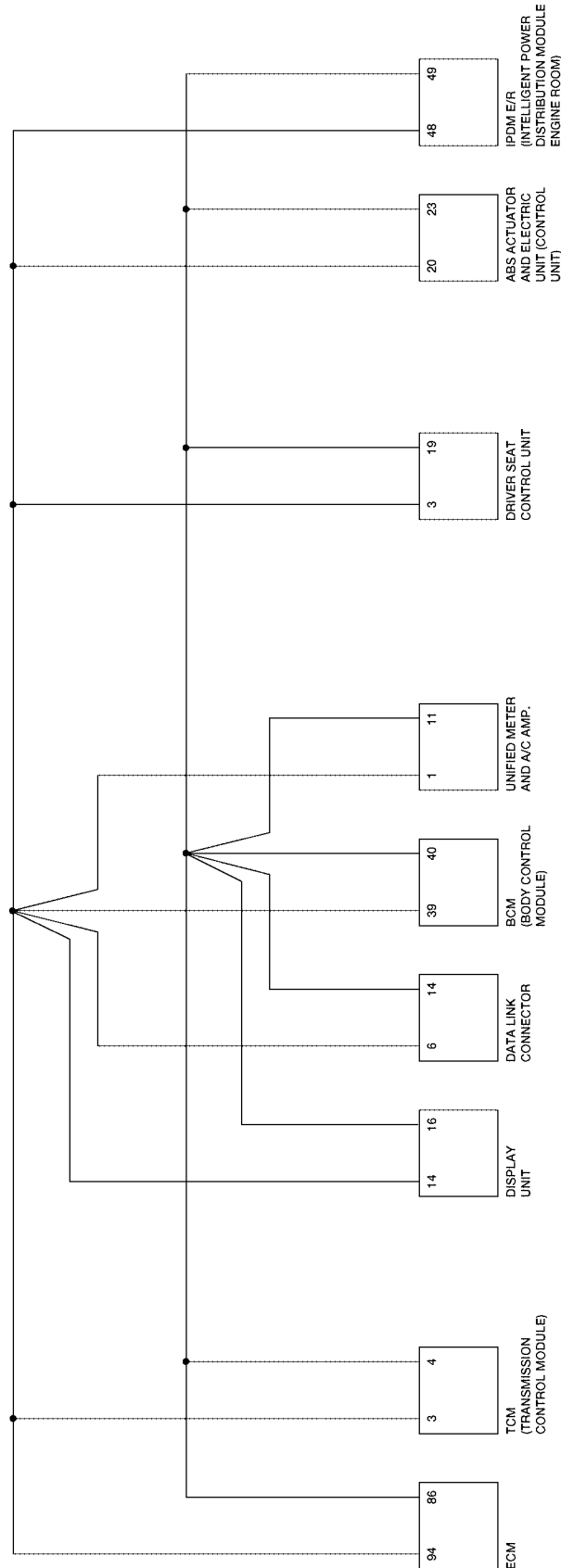


CAN SYSTEM (TYPE 18)

[CAN]

Schematic

EKS009YV



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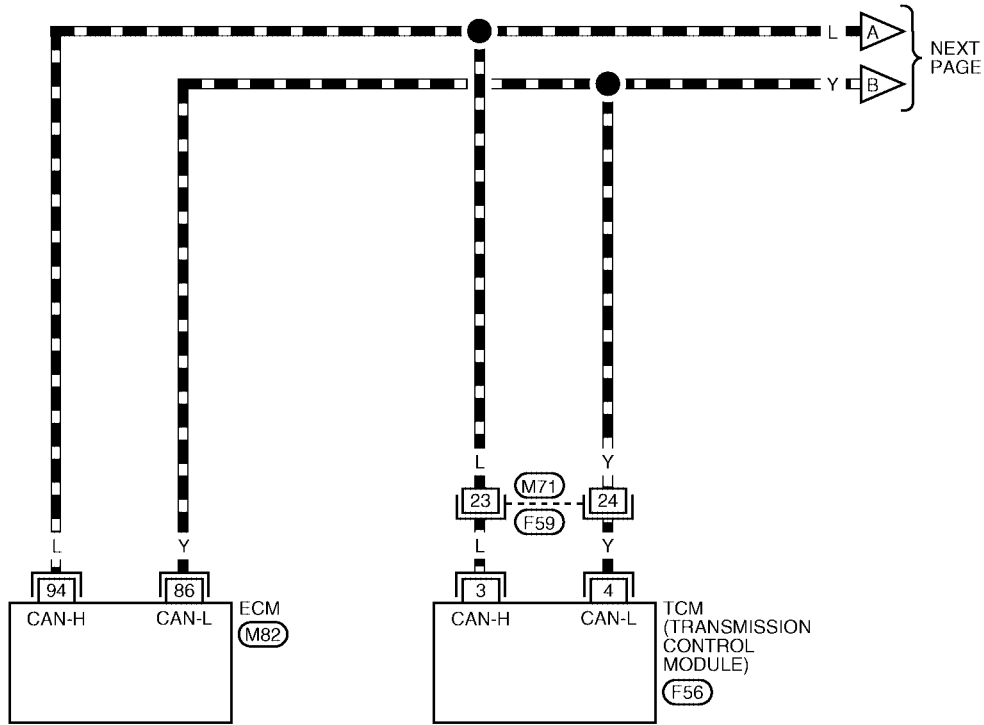
WKWA0469E

Wiring Diagram - CAN -

EKS009YW

LAN-CAN-52

— : DATA LINE

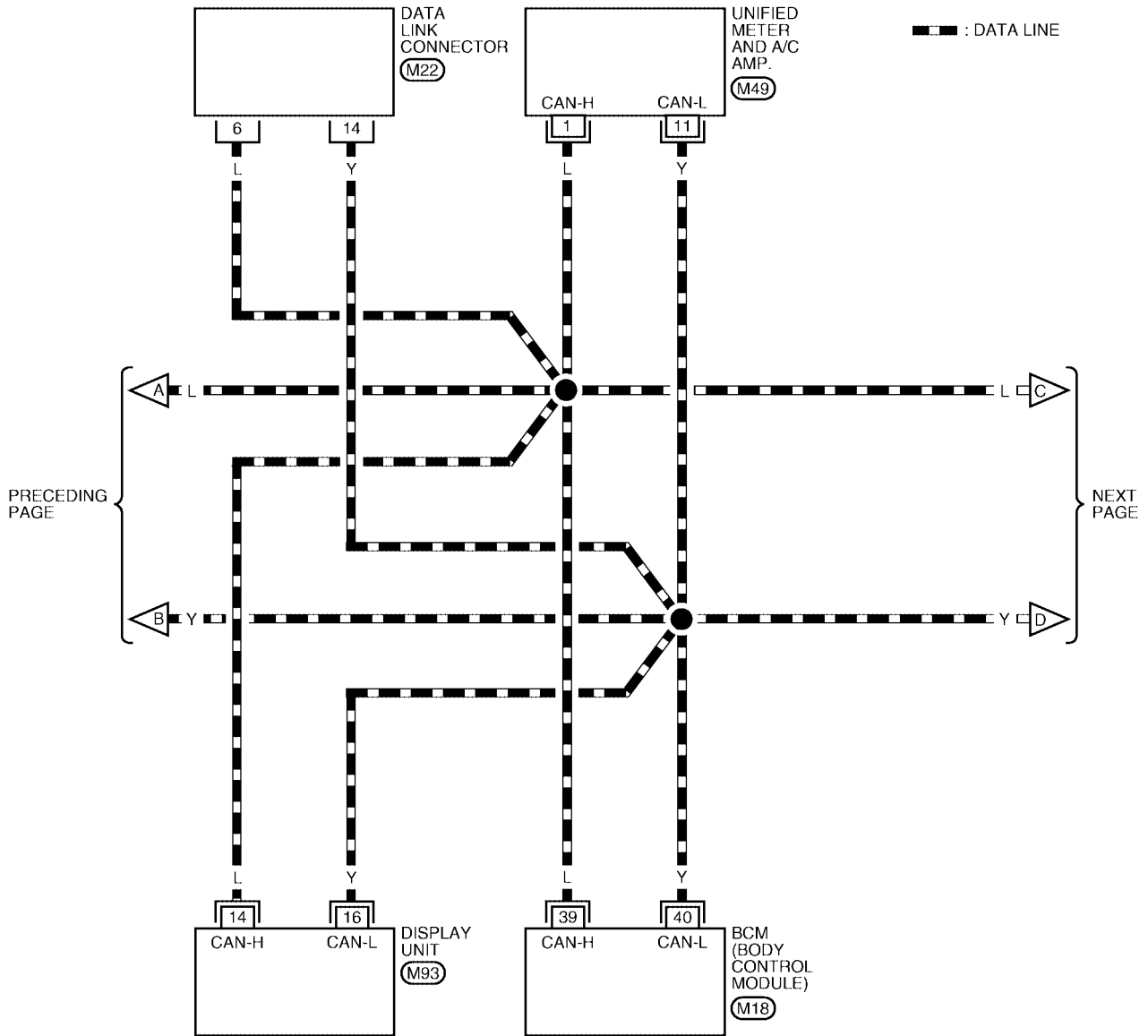


1	2	3	4	5	6	7	8	9	10	11	F59		
12	13	14	15	16	17	18	19	20	21	22	23	24	W

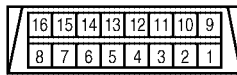
REFER TO THE FOLLOWING.
 (M82), (F56) - ELECTRICAL
 UNITS

BKWA0249E

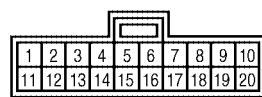
LAN-CAN-53



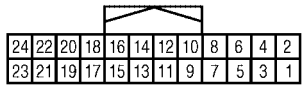
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(M22)
W



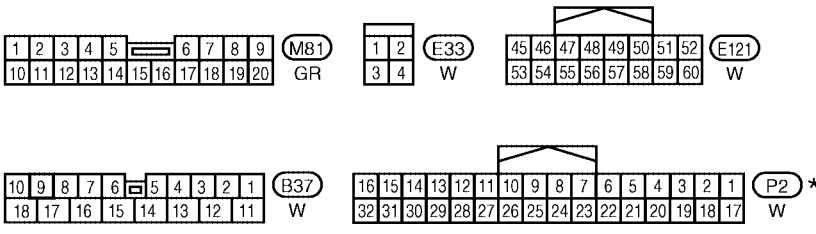
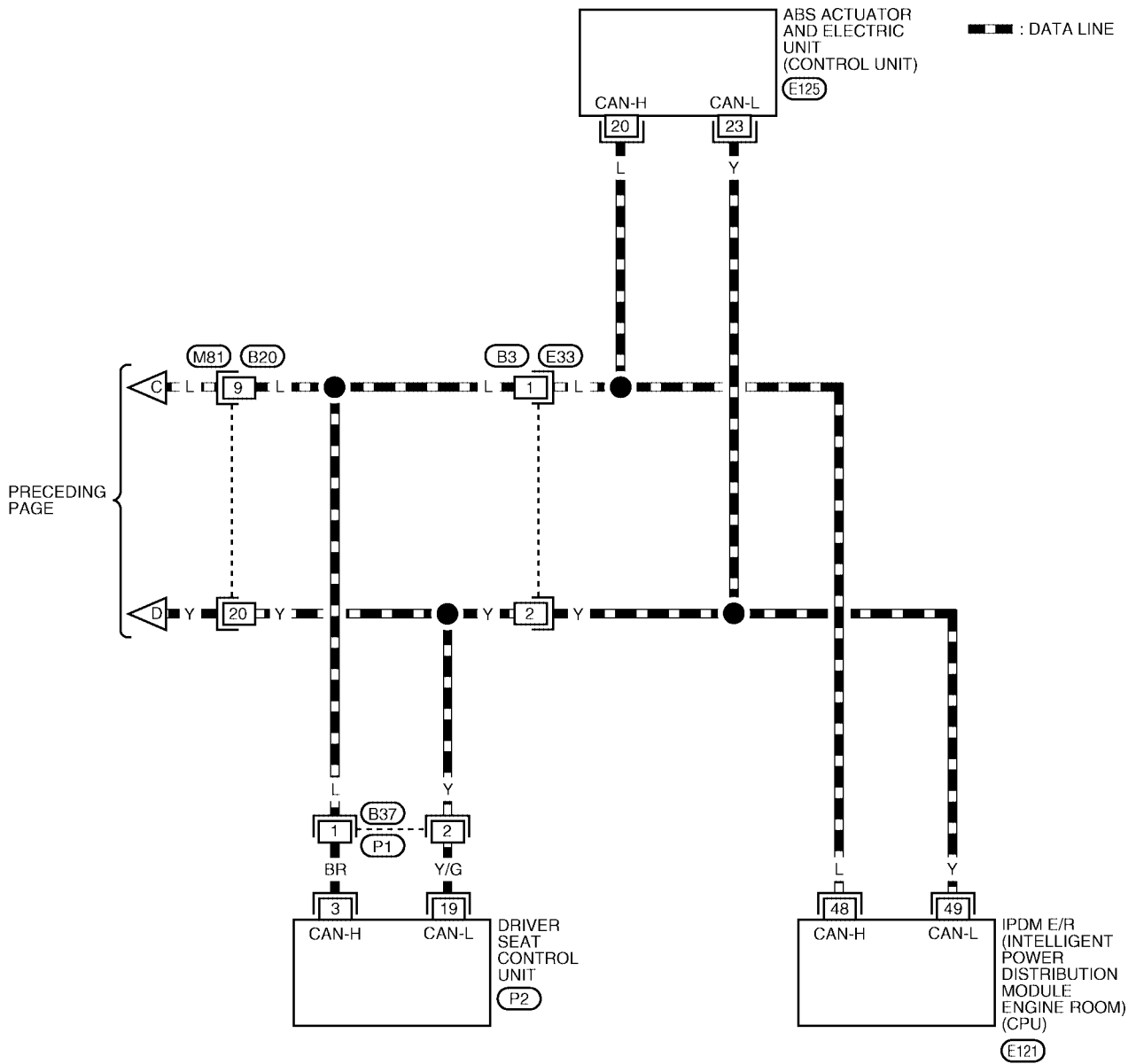
(M49)
GR



(M93)
W

REFER TO THE FOLLOWING.
(M18) - ELECTRICAL UNITS

BKWA0250E

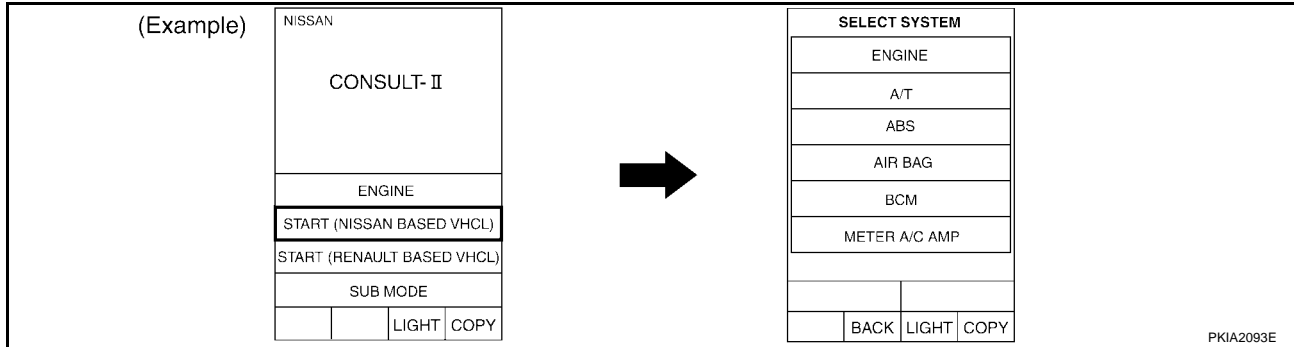


REFER TO THE FOLLOWING.
 (E125) - ELECTRICAL UNITS

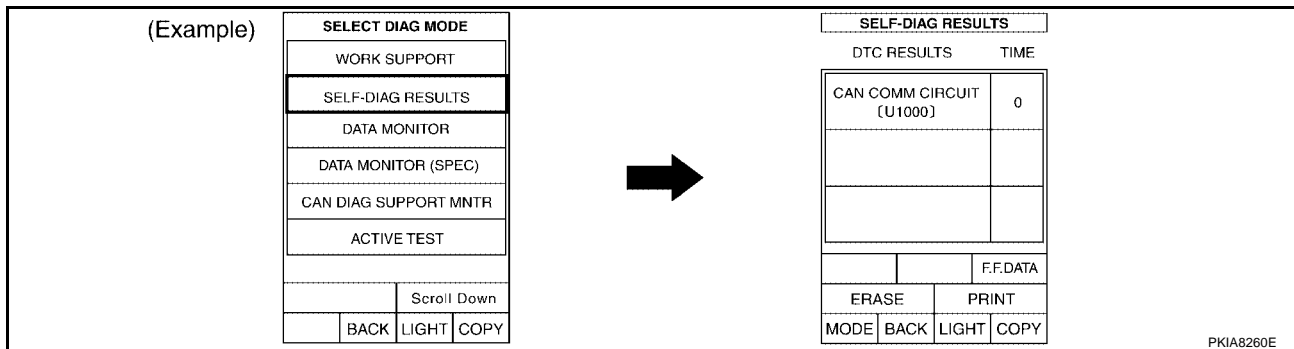
*: THIS CONNECTOR IS NOT SHOWN IN "HARNES LAYOUT" OF PG SECTION.

Work Flow

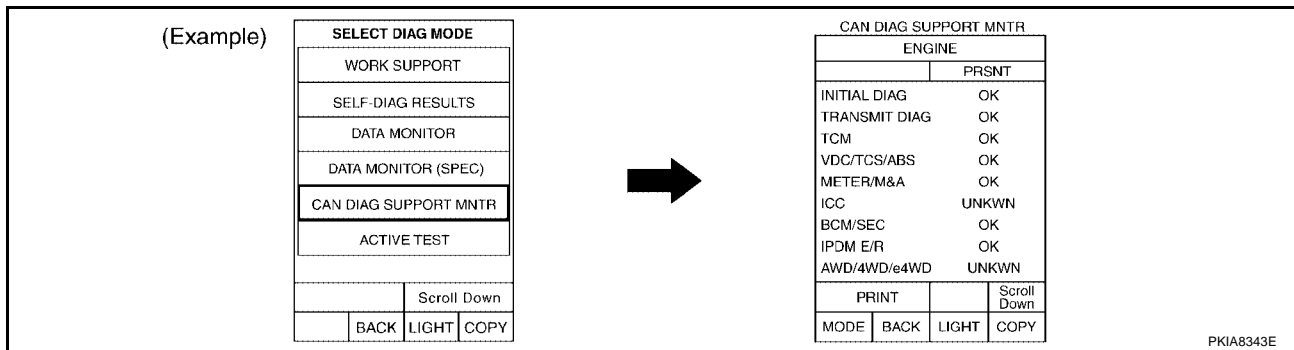
- When there are no indications of "TRANSMISSION", "METER A/C AMP", "BCM", "IPDM E/R" or "AUTO DRIVE POS." on "SELECT SYSTEM" display of CONSULT-II, print the "SELECT SYSTEM".



- Print all the data of "SELF-DIAG RESULTS" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Print all the data of "CAN DIAG SUPPORT MNTR" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Based on the indications of "SELECT SYSTEM" and the results of "CAN DIAG SUPPORT MNTR", put marks onto the items with "No indication", "NG", or "UNKWN" in the check sheet table.

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR									
	Initial diagnosis	Transmit diagnosis	Receive diagnosis							IPDM E/R
			ECM	TCM	DISPLAY	ME-TRU M&A	BCM/SEC	VDC/TCS/ABS		
ENGINE	NG	UNKWN	-	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	-
Display unit		CAN COMM	CAN 1	CAN 3			CAN 5	CAN 7		CAN 7
METER A/C AMP	No indication	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN			UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	UNKWN	-	-			
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN		

BKIA0068E

NOTE:

- If "NG" is displayed on "INITIAL DIAG (Initial diagnosis)" as "CAN DIAG SUPPORT MNTR" for the diagnosed control unit, replace the control unit.

CAN SYSTEM (TYPE 18)

[CAN]

-
- The “CAN DIAG SUPPORT MNTR” items which are not in check sheet table are not related to diagnostic procedure on service manual.
Therefore, it is not necessary to check the status of the “CAN DIAG SUPPORT MNTR” items not in check sheet table.
5. Mark the “NG” or “UNKWN” item of the check sheet table from the result of CAN DIAG SUPPORT MONITOR check sheet.

NOTE:

If “NG” is displayed on “CAN COMM” as “CAN DIAG SUPPORT MNTR” for the diagnosed control unit, replace the control unit.

6. According to the Check Sheet Results, start inspection.

CAN SYSTEM (TYPE 18)

[CAN]

CHECK SHEET

Check sheet table

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

Symptoms:

Attach copy of
SELECT SYSTEM

Attach copy of
SELECT SYSTEM

Attach copy of
display unit
CAN DIAG MONITOR
check sheet

A
B
C
D
E
F
G
H
I
J
LAN
L
M

BKIA0078E

CAN SYSTEM (TYPE 18)

[CAN]

Attach copy of ENGINE SELF-DIAG RESULTS	Attach copy of TRANSMISSION SELF-DIAG RESULTS	Attach copy of BCM SELF-DIAG RESULTS	Attach copy of METER A/C AMP SELF-DIAG RESULTS
Attach copy of ABS SELF-DIAG RESULTS	Attach copy of AUTO DRIVE POS. SELF-DIAG RESULTS	Attach copy of IPDM E/R SELF-DIAG RESULTS	
Attach copy of ENGINE CAN DIAG SUPPORT MNTR	Attach copy of TRANSMISSION CAN DIAG SUPPORT MNTR	Attach copy of BCM CAN DIAG SUPPORT MNTR	Attach copy of METER A/C AMP CAN DIAG SUPPORT MNTR
Attach copy of ABS CAN DIAG SUPPORT MNTR	Attach copy of AUTO DRIVE POS. CAN DIAG SUPPORT MNTR	Attach copy of IPDM E/R CAN DIAG SUPPORT MNTR	

BKIA0085E

CAN SYSTEM (TYPE 18)

[CAN]

CHECK SHEET RESULTS

Case 1

Replace ECM.

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				Receive diagnosis						
				ECM	TCM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	✓	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2323E

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				Receive diagnosis						
				ECM	TCM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	✓	-	✓	✓	✓	✓
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2324E

Case 2

Replace TCM.

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				Receive diagnosis						
				ECM	TCM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	✓	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	✓	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	✓	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	✓	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	✓	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2325E

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				Receive diagnosis						
				ECM	TCM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	✓	-	-	✓	-	✓	-
Display unit	-	CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2327E

CAN SYSTEM (TYPE 18)

[CAN]

Case 3

Replace display unit.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2328E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2329E

Case 4

Replace BCM.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2330E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2331E

CAN SYSTEM (TYPE 18)

[CAN]

Case 5

Replace unified meter and A/C amp.

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	IPDM E/R
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2332E

Case 6

Replace driver seat control unit.

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	IPDM E/R
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	UNKWN	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2334E

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	IPDM E/R
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2335E

Case 7

Replace ABS actuator and electric unit (control unit).

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	IPDM E/R
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		UNKWN	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2337E

CAN SYSTEM (TYPE 18)

[CAN]

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR							
				ECM	TCM	DISPLAY	Receive diagnosis METER/M&A		BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-	-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7	
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN	
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-	
ABS		NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-	
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-	

WKIA2338E

Case 8

Replace IPDM E/R.

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				ECM	TCM	DISPLAY	Receive diagnosis METER/M&A		BCM/SEC	VDC/TCS/ABS
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2339E

Case 9

Check harness between TCM and data link connector. Refer to [LAN-441](#).

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				ECM	TCM	DISPLAY	Receive diagnosis METER/M&A		BCM/SEC	VDC/TCS/ABS
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2340E

Case 10

Check harness between data link connector and driver seat control unit. Refer to [LAN-441](#).

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				ECM	TCM	DISPLAY	Receive diagnosis METER/M&A		BCM/SEC	VDC/TCS/ABS
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2341E

CAN SYSTEM (TYPE 18)

[CAN]

Case 11

Check harness between driver seat control unit and ABS actuator and electric unit (control unit). Refer to [LAN-442](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	ME-TR/ M&A	BCM/SEC	VDC/CS/ ABS	IPDM E/R
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	UNKWN
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2342E

Case 12

Check ECM circuit. Refer to [LAN-442](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	ME-TR/ M&A	BCM/SEC	VDC/CS/ ABS	IPDM E/R
ENGINE		NG	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	UNKWN
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2344E

Case 13

Check TCM circuit. Refer to [LAN-443](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	ME-TR/ M&A	BCM/SEC	VDC/CS/ ABS	IPDM E/R
ENGINE		NG	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2345E

Case 14

Check display unit circuit. Refer to [LAN-443](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	ME-TR/ M&A	BCM/SEC	VDC/CS/ ABS	IPDM E/R
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	UNKWN
Display unit		CAN COMM	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2347E

Case 15

Check data link connector circuit. Refer to [LAN-444](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	ECM	TCM	DISPLAY	Receive diagnosis METER/ M&A	BCM/SEC	VDC/CS/ ABS	IPDM E/R
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication ✓	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication ✓	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication ✓	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS	No indication ✓	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication ✓	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-

WKIA2348E

Case 16

Check BCM circuit. Refer to [LAN-444](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	ECM	TCM	DISPLAY	Receive diagnosis METER/ M&A	BCM/SEC	VDC/CS/ ABS	IPDM E/R
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	✓	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	✓ 2	-	CAN 7
METER A/C AMP	No indication	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication ✓	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	✓	-	-
ABS		NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	UNKWN	UNKWN	-	-	-	-	✓	-	-

WKIA2349E

Case 17

Check unified meter and A/C amp. circuit. Refer to [LAN-445](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	ECM	TCM	DISPLAY	Receive diagnosis METER/ M&A	BCM/SEC	VDC/CS/ ABS	IPDM E/R
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	✓ CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication ✓	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-

WKIA2350E

Case 18

Check driver seat control unit circuit. Refer to [LAN-445](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	ECM	TCM	DISPLAY	Receive diagnosis METER/ M&A	BCM/SEC	VDC/CS/ ABS	IPDM E/R
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS	No indication ✓	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	UNKWN	UNKWN	-	-	-	-	UNKWN	-	-

WKIA2351E

Case 19

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-446](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	ME-TR/ M&A	BCM/SEC	VDC/CS/ ABS	IPDM E/R
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	-	UNKWN	-

WKIA2352E

Case 20

Check IPDM E/R circuit. Refer to [LAN-446](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	ME-TR/ M&A	BCM/SEC	VDC/CS/ ABS	IPDM E/R
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	UNKWN
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	-	UNKWN	-

WKIA2353E

Case 21

Check CAN communication circuit. Refer to [LAN-447](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	ME-TR/ M&A	BCM/SEC	VDC/CS/ ABS	IPDM E/R
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN
Display unit		CAN COMM	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN	UNKWN
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	-	UNKWN	-

WKIA2354E

Case 22

Check IPDM E/R Ignition relay circuit. Refer to [LAN-448](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	ME-TR/ M&A	BCM/SEC	VDC/CS/ ABS	IPDM E/R
ENGINE		NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2	-	CAN 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	-	UNKWN	-

WKIA2355E

CAN SYSTEM (TYPE 18)

[CAN]

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	TCM	DISPLAY	METER/ M&A	BCM/SEC	VDC/CS/ ABS	IPDM E/R
ENGINE		NG	UNKWN	-	✓	-	UNKWN	UNKWN	✓	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN		UNKWN	-
Display unit		CAN COMM	CAN 1	CAN 3	-	-	CAN 5	CAN 2		CAN 7
METER A/C AMP	No indication		UNKWN	UNKWN	✓	UNKWN	-	UNKWN	✓	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN			UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	✓	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	UNKWN	-	-			
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN		

WKIA2356E

Circuit Check Between TCM and Data Link Connector**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

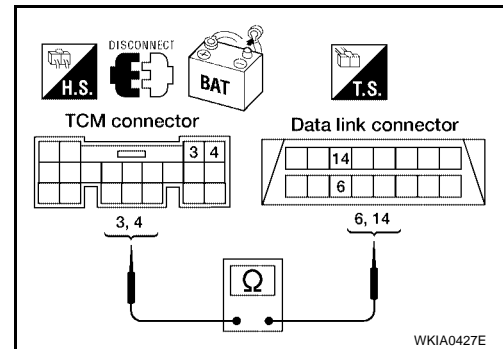
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between TCM connector F56 terminals 3 (L), 4 (Y) and data link connector M22 terminals 6 (L), 14 (Y).

- 3 (L) - 6 (L) : Continuity should exist.**
4 (Y) - 14 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-429, "Work Flow"](#)
 NG >> Repair harness.

**Circuit Check Between Driver Seat Control Unit and Data Link Connector****1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

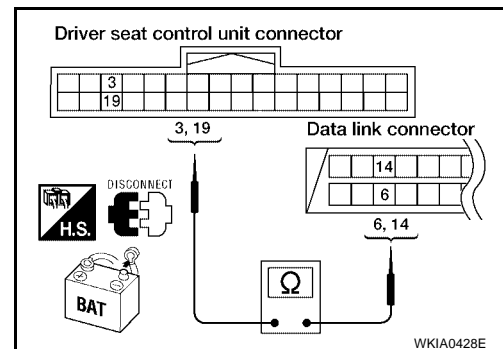
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and data link connector M22 terminals 6 (L), 14 (Y).

- 3 (BR) - 6 (L) : Continuity should exist.**
19 (Y/G) - 14 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-429](#).
 NG >> Repair harness.



Circuit Check Between Driver Seat Control Unit and ABS Actuator and Electric Unit (Control Unit)

EKS009Z0

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2, ABS actuator and electric unit (control unit) connector E125 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

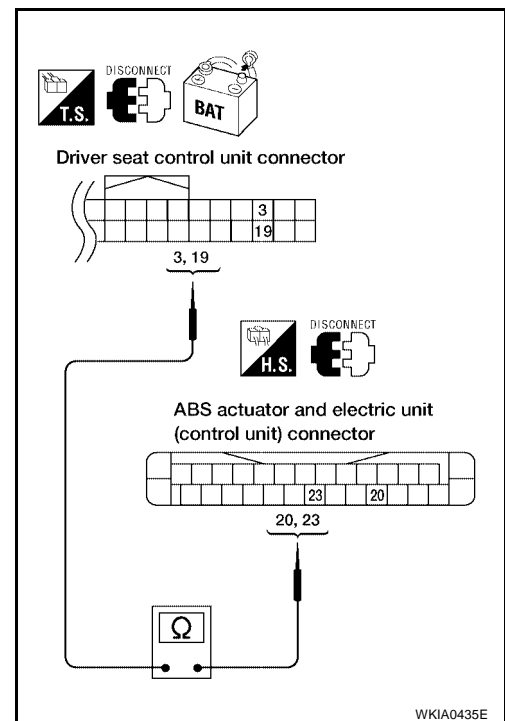
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and ABS actuator and electric unit (control unit) connector E125 terminals 20 (L), 23 (Y).

- 3 (BR) - 20 (L) : Continuity should exist.**
19 (Y/G) - 23 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-429](#).
 NG >> Repair harness.



ECM Circuit Check

EKS009Z1

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

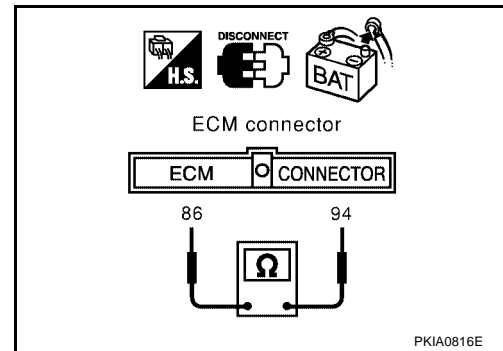
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between ECM connector M82 terminal 94 (L) and terminal 86 (Y).

94 (L) - 86 (Y) : Approx. 108 - 132Ω

OK or NG

- OK >> Replace ECM.
 NG >> Repair harness between ECM connector M82 and TCM connector F56.



EKS009Z2

TCM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

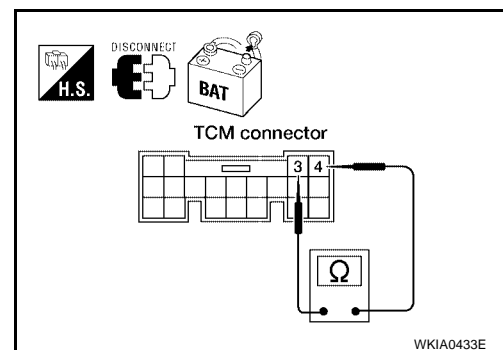
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between TCM connector F56 terminal 3 (L) and terminal 4 (Y).

3 (L) - 4 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace TCM.
 NG >> Repair harness between TCM connector F56 and ECM connector M82.



EKS009Z3

Display Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect display unit connector M93.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

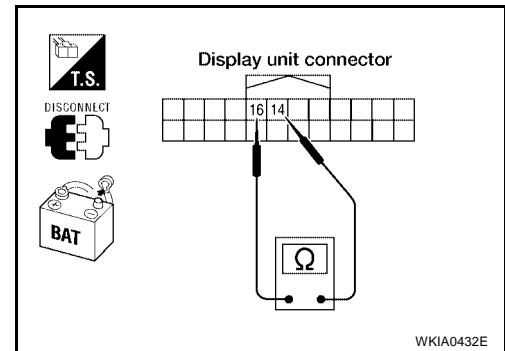
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between display unit connector M93 terminal 25 (L) and terminal 26 (Y).

14 (L) - 16 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace display unit.
- NG >> Repair harness between display unit connector M93 and data link connector M22.



Data Link Connector Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Check data link connector M22 terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
- NG >> Repair or replace as necessary.

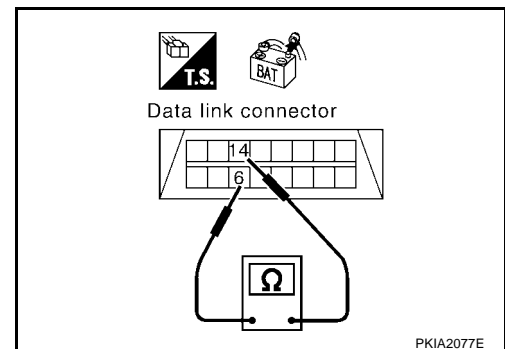
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector M22 terminal 6 (L) and terminal 14 (Y).

6 (L) - 14 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-429](#).
- NG >> Repair harness between data link connector M22 and BCM connector M18.



BCM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect BCM connector M18.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
- NG >> Repair or replace as necessary.

EKS009Z5

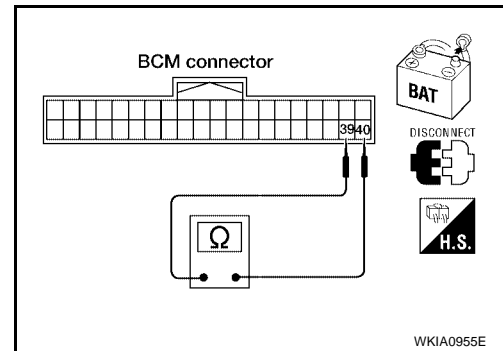
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between BCM connector M18 terminal 39 (L) and terminal 40 (Y).

39 (L) - 40 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace BCM.
 NG >> Repair harness between BCM connector M18 and data link connector M22.



EKS009Z6

Unified Meter and A/C Amp. Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect unified meter and A/C amp. connector M49.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

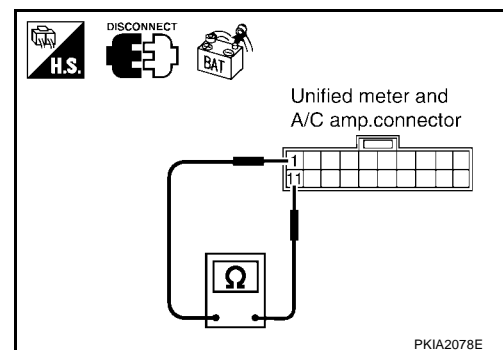
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between unified meter and A/C amp. connector M49 terminal 1 (L) and terminal 11 (Y).

1 (L) - 11 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace unified meter and A/C amp.
 NG >> Repair harness between unified meter and A/C amp. connector M49 and data link connector M22.



EKS009Z7

Driver Seat Control Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

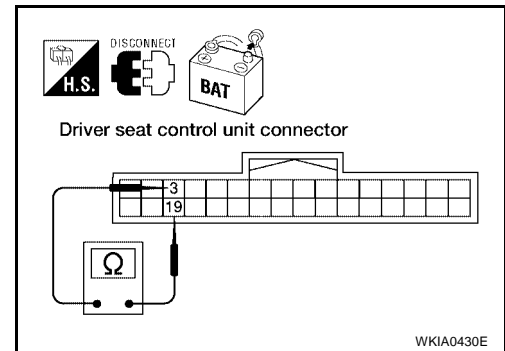
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between driver seat control unit connector P2 terminal 3 (BR) and terminal 19 (Y/G).

3 (BR) - 19 (Y/G) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace driver seat control unit.
 NG >> Repair harness between driver seat control unit connector P2 and data link connector M22.



ABS Actuator and Electric Unit (Control Unit) Circuit Check

EKS009Z8

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ABS actuator and electric unit (control unit) connector E125.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

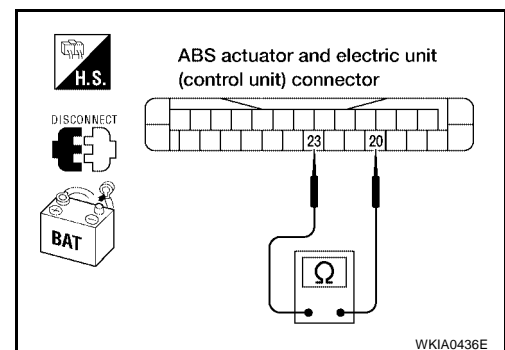
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between ABS actuator and electric unit (control unit) connector E125 terminal 20 (L) and terminal 23 (Y).

20 (L) - 23 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace ABS actuator and electric unit (control unit).
 NG >> Repair harness between ABS actuator and electric unit (control unit) connector E125 and IPDM E/R connector E121.



IPDM E/R Circuit Check

EKS009Z9

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect IPDM E/R connector E121.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

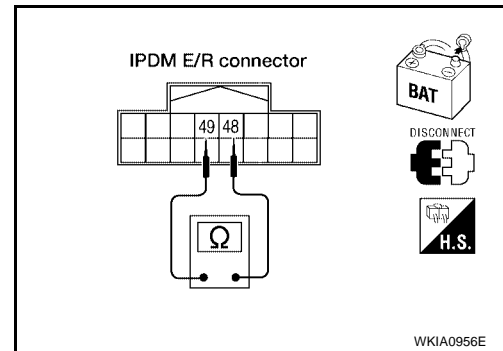
Check resistance between IPDM E/R connector E121 terminal 48 (L) and terminal 49 (Y).

48 (L) - 49 (Y)

: Approx. 108 - 132Ω

OK or NG

- OK >> Replace IPDM E/R.
 NG >> Repair harness between IPDM E/R connector E121 and ABS actuator and electric unit (control unit) connector E125.



CAN Communication Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect the following module and control unit connectors and check terminals for deformation, disconnection, looseness or damage.
 - ECM
 - TCM (Transmission control module)
 - Display unit
 - BCM (Body control module)
 - Unified meter and A/C amp.
 - Driver seat control unit
 - ABS actuator and electric unit (control unit)
 - IPDM E/R (Intelligent power distribution module engine room)

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR SHORTED CIRCUITS

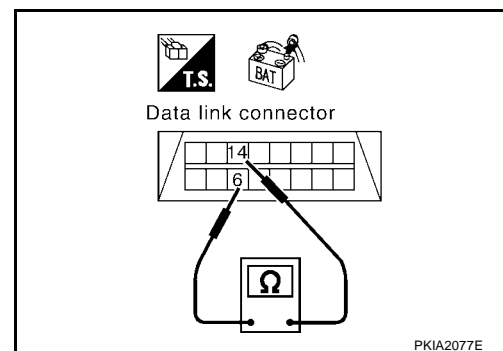
With all module and control unit connectors disconnected, check continuity between data link connector M22 terminals 6 (L) and 14 (Y).

6 (L) - 14 (Y)

: Continuity should not exist.

OK or NG

- OK >> GO TO 3.
 NG >> Repair the harness.



3. CHECK HARNESS FOR SHORT TO GROUND

Check continuity between data link connector M22 terminals 6 (L), 14 (Y) and ground.

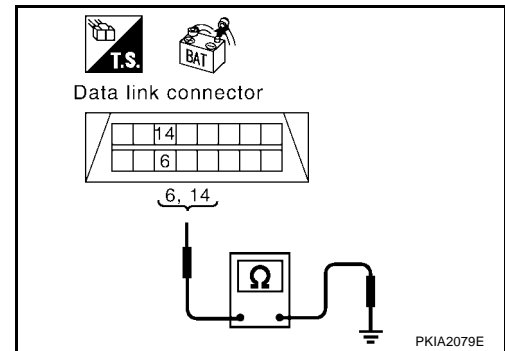
6 (L) - Ground : Continuity should not exist.

14 (Y) - Ground : Continuity should not exist.

OK or NG

OK >> Check ECM and IPDM E/R. Refer to [LAN-448, "Component Inspection"](#).

NG >> Repair the harness.



EKS009ZB

IPDM E/R Ignition Relay Circuit Check

Check the following. If no problem is found, replace the IPDM E/R.

- IPDM E/R power supply circuit. Refer to [PG-24, "IPDM E/R Power/Ground Circuit Inspection"](#).
- Ignition power supply circuit. Refer to [PG-11, "IGNITION POWER SUPPLY — IGNITION SW. IN ON AND/OR START"](#).

Component Inspection

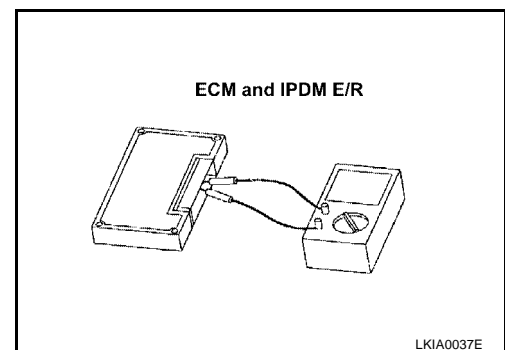
ECM/IPDM E/R INTERNAL CIRCUIT INSPECTION

- Remove ECM and IPDM E/R from vehicle.
- Check resistance between ECM terminals 94 and 86.

94 - 86 : Approx. 108 - 132Ω
- Check resistance between IPDM E/R terminals 48 and 49.

48 - 49 : Approx. 108 - 132Ω

EKS009ZC



CAN SYSTEM (TYPE 19)

PFP:23710

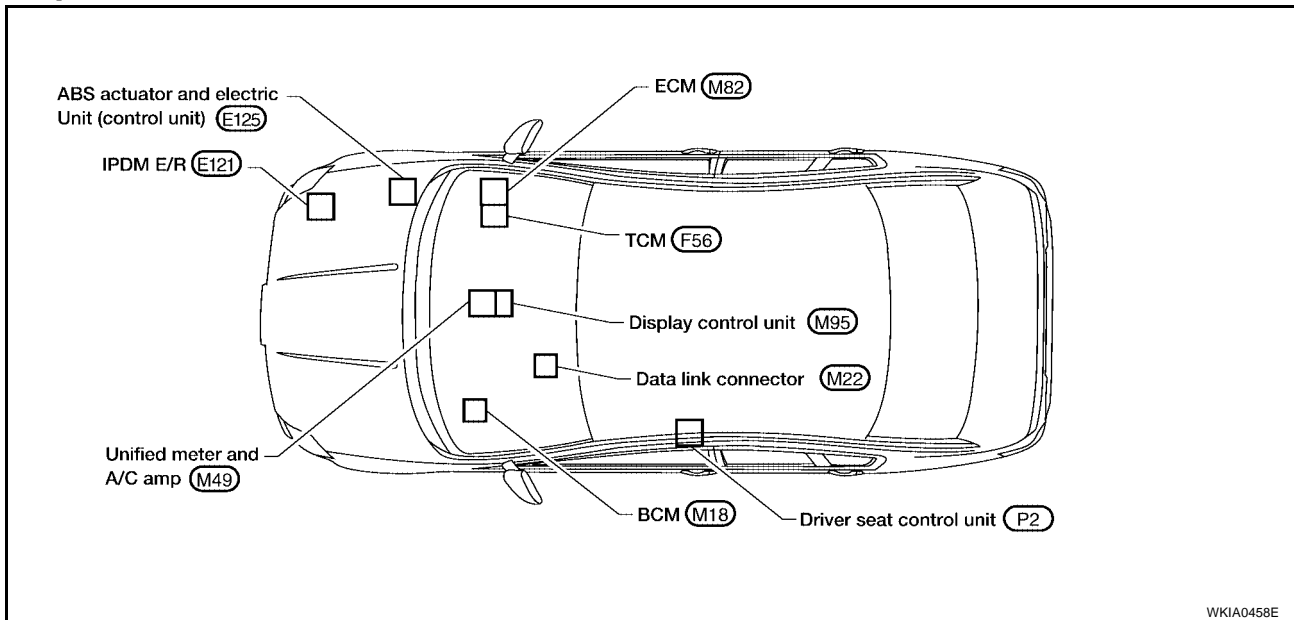
System Description

EKS009Y9

CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H line, CAN L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

Component Parts and Harness Connector Location

EKS009YA



A
B
C
D
E
F
G
H
I
J
L
M

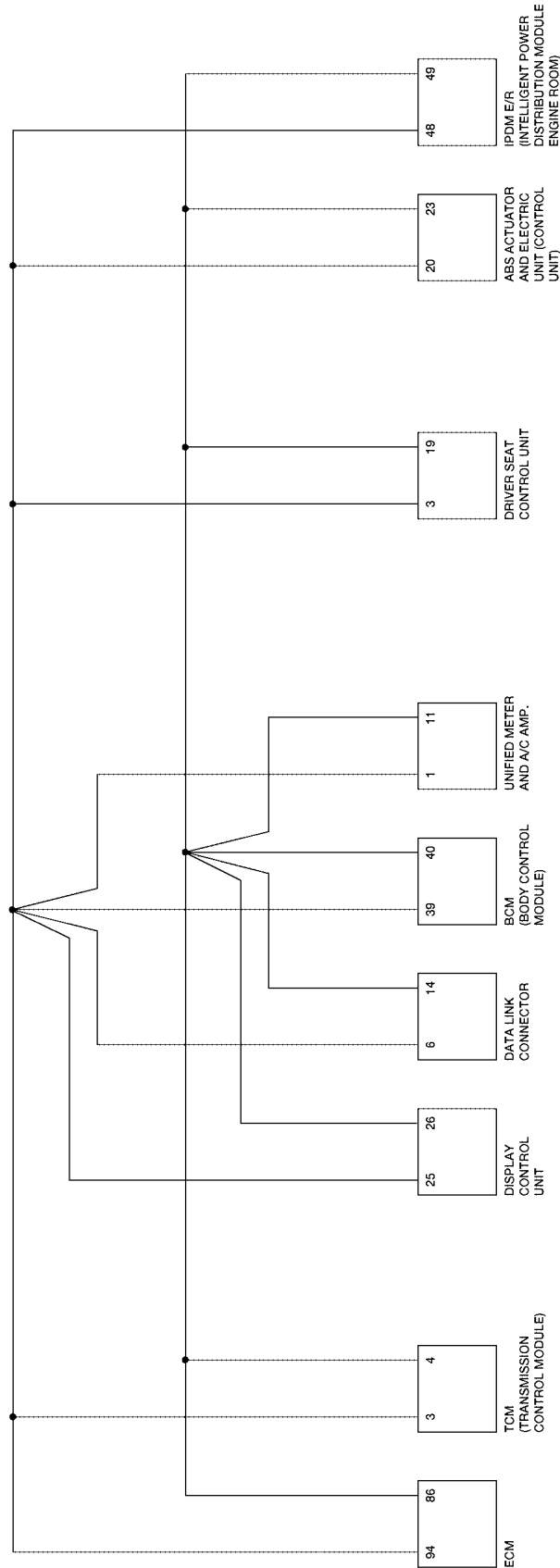
LAN

CAN SYSTEM (TYPE 19)

[CAN]

Schematic

EKS009YB



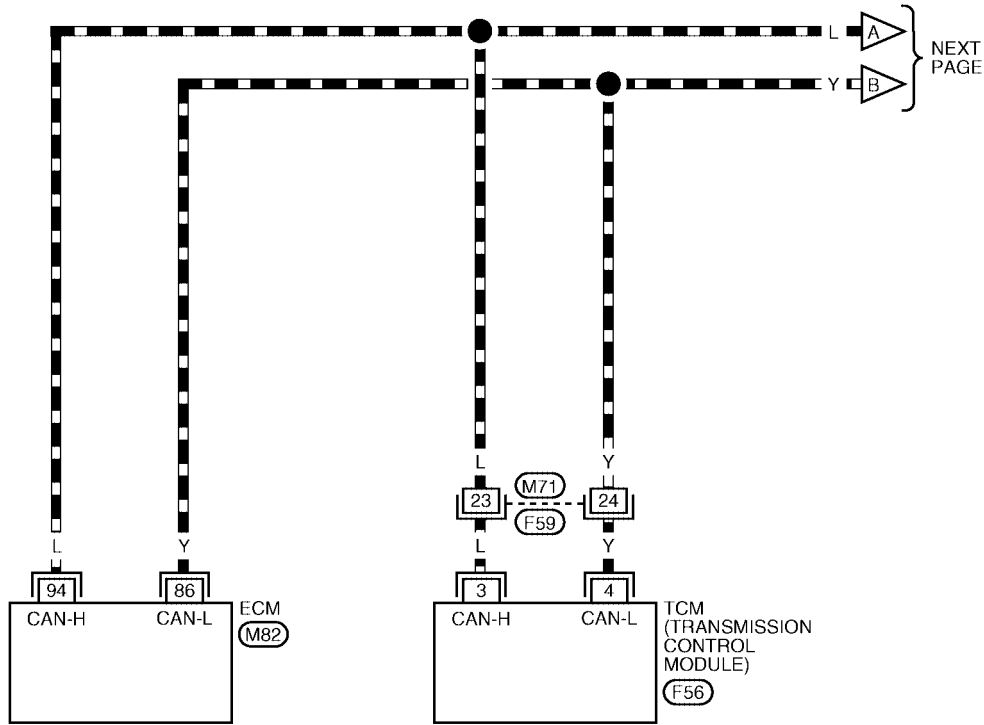
WKWA0470E

Wiring Diagram - CAN -

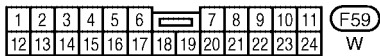
EKS009YC

LAN-CAN-55

— : DATA LINE



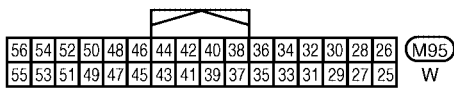
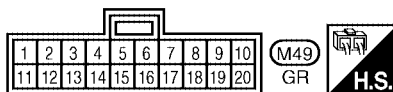
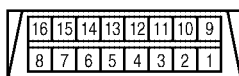
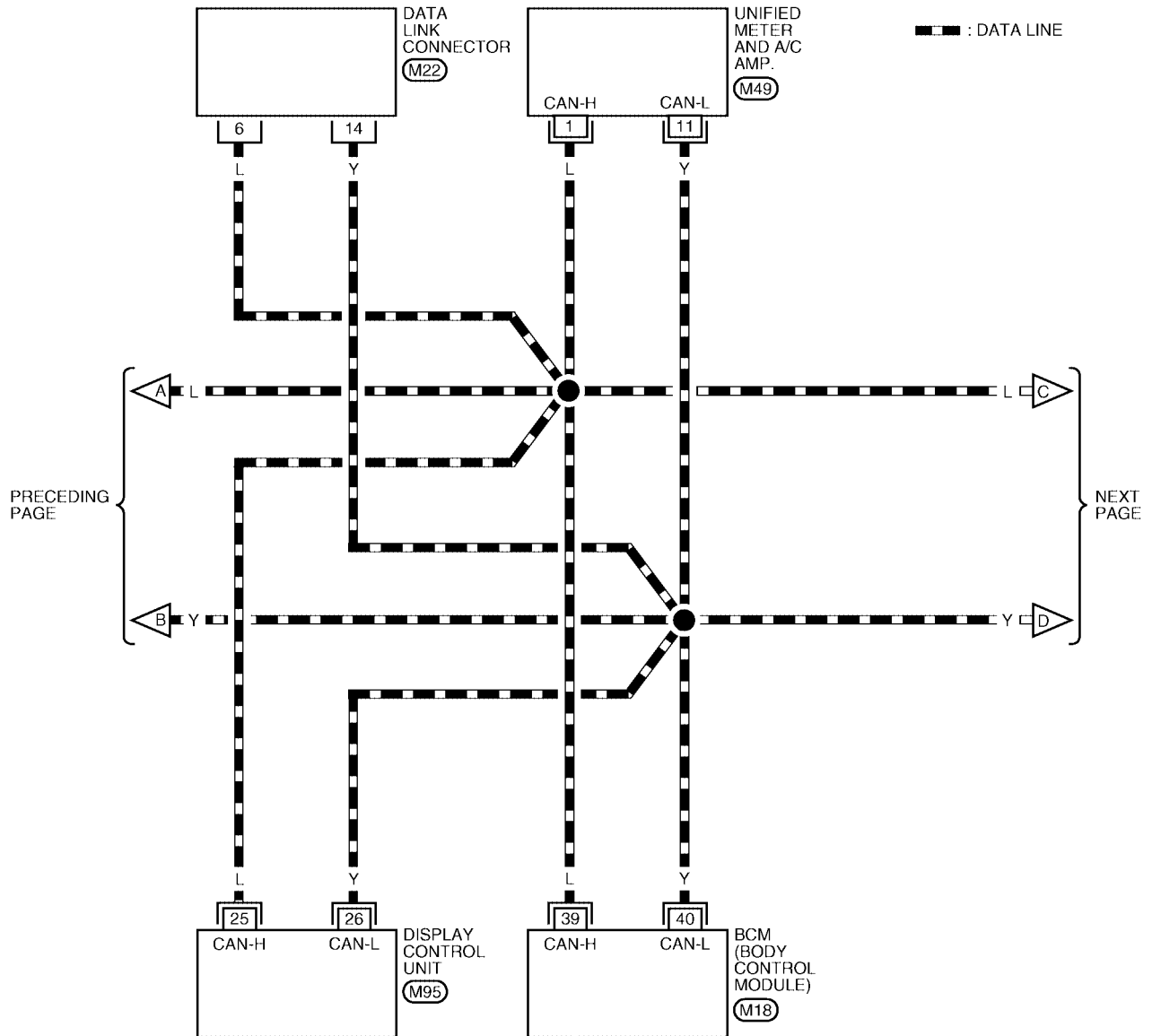
A
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REFER TO THE FOLLOWING.
 (M82), (F56) - ELECTRICAL
 UNITS

BKWA0252E

LAN-CAN-56

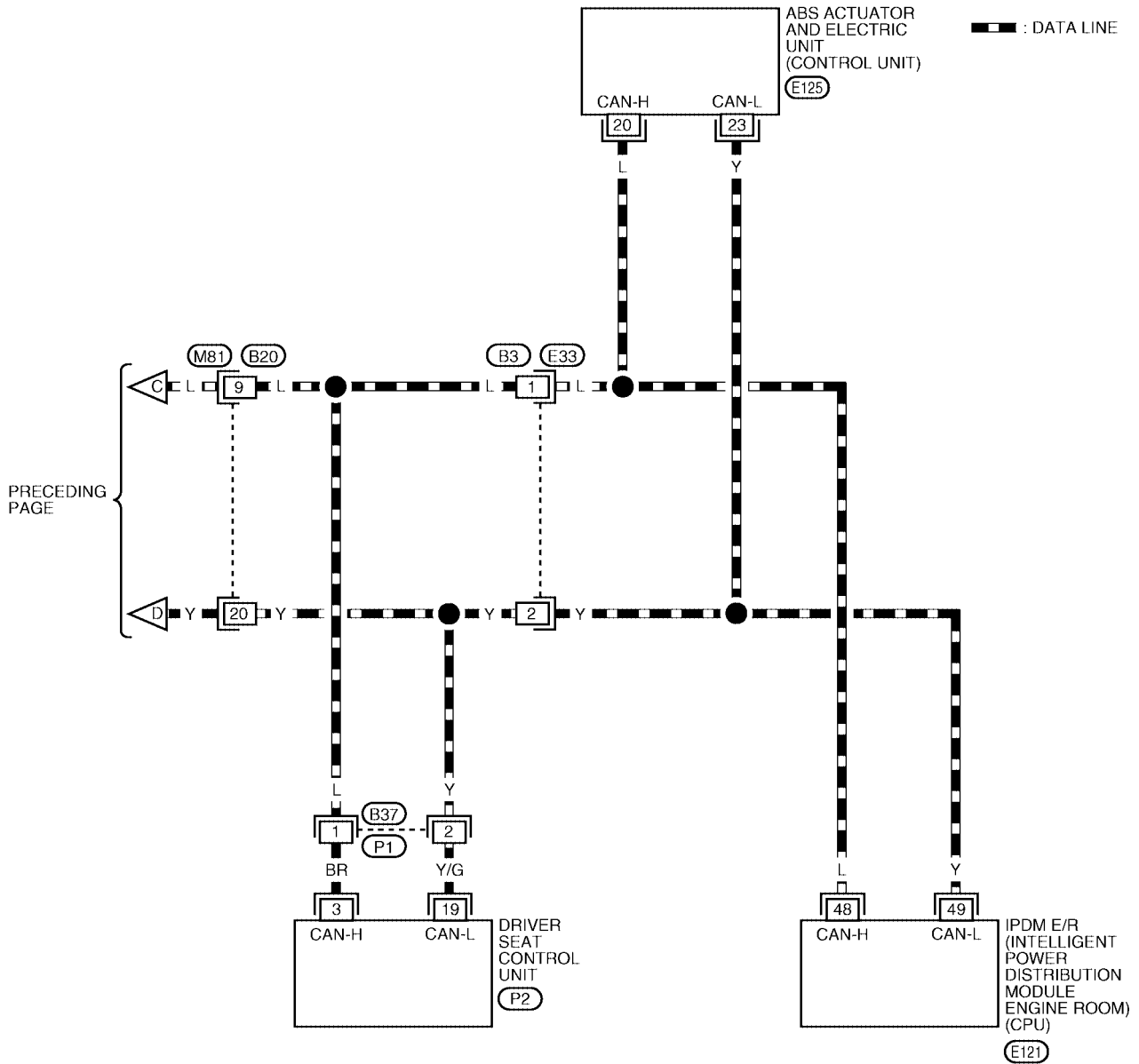


REFER TO THE FOLLOWING.

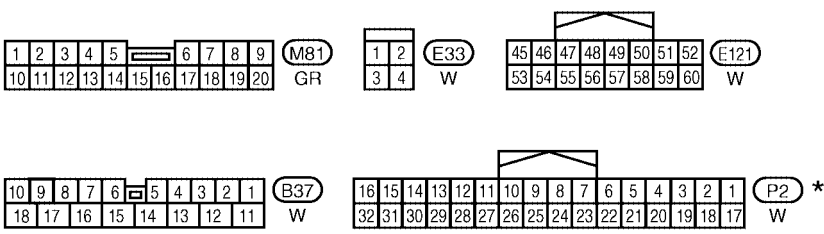
(M18) - ELECTRICAL UNITS

BKWA0253E

LAN-CAN-57



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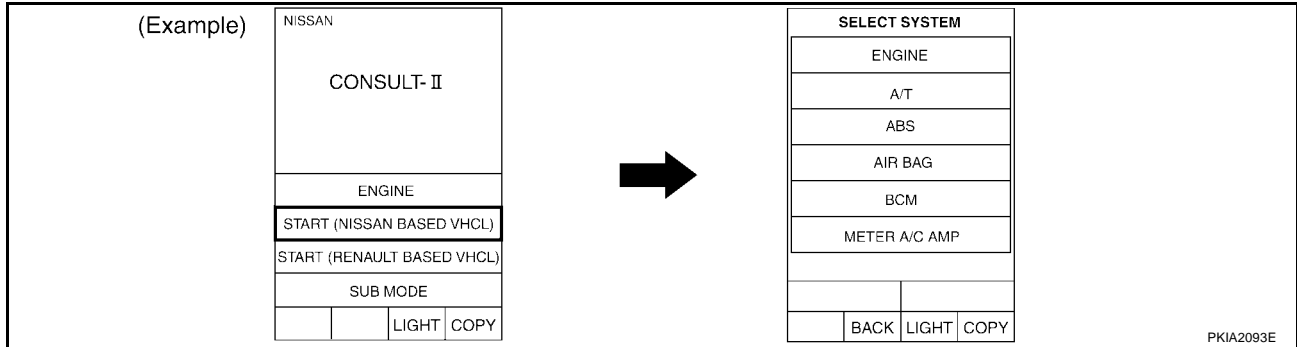


REFER TO THE FOLLOWING.
E125 - ELECTRICAL UNITS

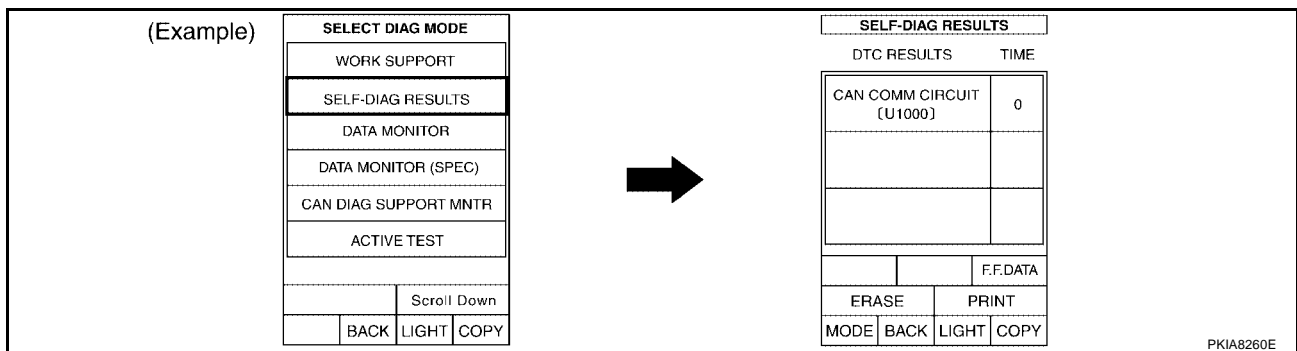
*: THIS CONNECTOR IS NOT SHOWN IN "HARNES LAYOUT" OF PG SECTION.

Work Flow

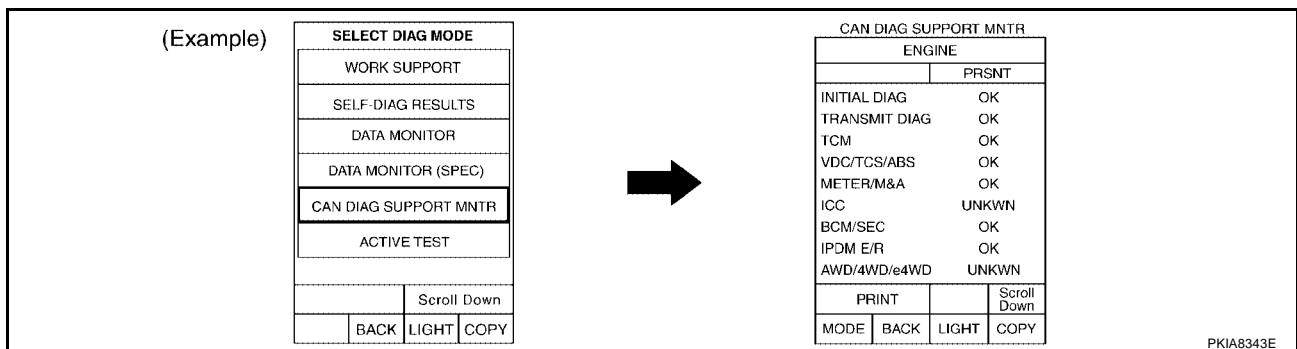
- When there are no indications of "AT", "METER A/C AMP", "BCM", "IPDM E/R" or "AUTO DRIVE POS." on "SELECT SYSTEM" display of CONSULT-II, print the "SELECT SYSTEM".



- Print all the data of "SELF-DIAG RESULTS" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Print all the data of "CAN DIAG SUPPORT MNTR" for "ENGINE", "TRANSMISSION", "BCM", "METER A/C AMP", "AUTO DRIVE POS.", "IPDM E/R" and "ABS" displayed on CONSULT-II.



- Based on the indications of "SELECT SYSTEM" and the results of "CAN DIAG SUPPORT MNTR", put marks onto the items with "No indication", "NG", or "UNKWN" in the check sheet table.

SELECT SYSTEM screen	CAN DIAG SUPPORT MNTR									
	Initial diagnosis	Transmit diagnosis	ECM	TCM	DISPLAY	Receive diagnosis	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	-
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	CAN CIRC 5	CAN CIRC 2	-	-	CAN CIRC 7
METER A/C AMP	No indication	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	UNKWN	-	-	-

BKIA0069E

NOTE:

- If "NG" is displayed on "INITIAL DIAG (Initial diagnosis)" as "CAN DIAG SUPPORT MNTR" for the diagnosed control unit, replace the control unit.

CAN SYSTEM (TYPE 19)

[CAN]

-
- The “CAN DIAG SUPPORT MNTR” items which are not in check sheet table are not related to diagnostic procedure on service manual.
Therefore, it is not necessary to check the status of the “CAN DIAG SUPPORT MNTR” items not in check sheet table.
5. Check CAN communication line of the navigation system.
 6. Mark the “NG” or “UNKWN” item of the check sheet table from the result of CAN DIAG SUPPORT MONITOR check sheet.
NOTE:
If “NG” is displayed on “CAN COMM” as “CAN DIAG SUPPORT MNTR” for the diagnosed control unit, replace the control unit.
 7. According to the Check Sheet Results, start inspection.

A

B

C

D

E

F

G

H

I

J

LAN

L

M

CAN SYSTEM (TYPE 19)

[CAN]

CHECK SHEET

Check sheet table

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	UNKWN
TRANSMISSION	-	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	-
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	-	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

Symptoms:

Attach copy of
SELECT SYSTEM

Attach copy of
SELECT SYSTEM

Attach copy of
display unit
CAN DIAG MONITOR
check sheet

BKIA0079E

CAN SYSTEM (TYPE 19)

[CAN]

Attach copy of ENGINE SELF-DIAG RESULTS	Attach copy of TRANSMISSION SELF-DIAG RESULTS	Attach copy of BCM SELF-DIAG RESULTS	Attach copy of METER A/C AMP SELF-DIAG RESULTS
Attach copy of ABS SELF-DIAG RESULTS	Attach copy of AUTO DRIVE POS. SELF-DIAG RESULTS	Attach copy of IPDM E/R SELF-DIAG RESULTS	
Attach copy of ENGINE CAN DIAG SUPPORT MNTR	Attach copy of TRANSMISSION CAN DIAG SUPPORT MNTR	Attach copy of BCM CAN DIAG SUPPORT MNTR	Attach copy of METER A/C AMP CAN DIAG SUPPORT MNTR
Attach copy of ABS CAN DIAG SUPPORT MNTR	Attach copy of AUTO DRIVE POS. CAN DIAG SUPPORT MNTR	Attach copy of IPDM E/R CAN DIAG SUPPORT MNTR	

A
B
C
D
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LAN

BKIA0085E

CAN SYSTEM (TYPE 19)

[CAN]

CHECK SHEET RESULTS

Case 1

Replace ECM.

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				Receive diagnosis						
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2357E

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				Receive diagnosis						
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2358E

Case 2

Replace TCM.

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				Receive diagnosis						
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	UNKWN	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2359E

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				Receive diagnosis						
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/TCS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	-	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2360E

CAN SYSTEM (TYPE 19)

[CAN]

Case 3

Replace display control unit.

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2361E

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2362E

Case 4

Replace BCM.

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2363E

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2364E

CAN SYSTEM (TYPE 19)

[CAN]

Case 5

Replace unified meter and A/C amp.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	-
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2365E

Case 6

Replace driver seat control unit.

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	-
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2366E

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	-
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2367E

Case 7

Replace ABS actuator and electric unit (control unit).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	-
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2368E

CAN SYSTEM (TYPE 19)

[CAN]

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				Receive diagnosis			Receive diagnosis			
				ECM	TCM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2369E

Case 8

Replace IPDM E/R.

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				Receive diagnosis			Receive diagnosis			
				ECM	TCM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2370E

Case 9

Check harness between TCM and data link connector. Refer to [LAN-466](#).

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				Receive diagnosis			Receive diagnosis			
				ECM	TCM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2371E

Case 10

Check harness between data link connector and driver seat control unit. Refer to [LAN-466](#).

SELECT SYSTEM screen		Initial diagnosis	Transmit diagnosis	CAN DIAG SUPPORT MNTR						
				Receive diagnosis			Receive diagnosis			
				ECM	TCM	DISPLAY	METER/ M&A	BCM/SEC	VDC/TCS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-
Display control unit	-	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS	-	NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2372E

CAN SYSTEM (TYPE 19)

[CAN]

Case 11

Check harness between driver seat control unit and ABS actuator and electric unit (control unit). Refer to [LAN-467](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2373E

Case 12

Check ECM circuit. Refer to [LAN-467](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2374E

Case 13

Check TCM circuit. Refer to [LAN-468](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2375E

Case 14

Check display control unit circuit. Refer to [LAN-468](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	NG	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2376E

CAN SYSTEM (TYPE 19)

[CAN]

Case 15

Check data link connector circuit. Refer to [LAN-469](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	ME-TR/ M&A	BCM/SEC	VDC/CS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	UNKWN	-
Display control unit	✓	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS	✓	NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2377E

Case 16

Check BCM circuit. Refer to [LAN-469](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	ME-TR/ M&A	BCM/SEC	VDC/CS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	-
Display control unit	✓	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS	✓	NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2378E

Case 17

Check unified meter and A/C amp. circuit. Refer to [LAN-470](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	ME-TR/ M&A	BCM/SEC	VDC/CS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	-
Display control unit	✓	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS	✓	NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2379E

Case 18

Check driver seat control unit circuit. Refer to [LAN-470](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	ME-TR/ M&A	BCM/SEC	VDC/CS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	-
Display control unit	✓	CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication	NG	UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	-	UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS	✓	NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication	-	UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2380E

CAN SYSTEM (TYPE 19)

[CAN]

Case 19

Check ABS actuator and electric unit (control unit) circuit. Refer to [LAN-471](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	-
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2381E

Case 20

Check IPDM E/R circuit. Refer to [LAN-471](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2382E

Case 21

Check CAN communication circuit. Refer to [LAN-472](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	UNKWN
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2383E

Case 22

Check IPDM E/R Ignition relay circuit. Refer to [LAN-473](#).

SELECT SYSTEM screen		CAN DIAG SUPPORT MTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						IPDM E/R
				ECM	TCM	DISPLAY	METER/M&A	BCM/SEC	VDC/CS/ABS	
ENGINE	-	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	UNKWN	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	UNKWN	UNKWN	-
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2	-	CAN CIRC 7
METER A/C AMP	No indication		UNKWN	UNKWN	UNKWN	UNKWN	-	UNKWN	UNKWN	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN	-	-	UNKWN
AUTO DRIVE POS	No indication	NG	UNKWN	-	UNKWN	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	UNKWN	-	-	-	-	-
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN	-	-

WKIA2384E

CAN SYSTEM (TYPE 19)

[CAN]

SELECT SYSTEM screen		CAN DIAG SUPPORT MNTR								
		Initial diagnosis	Transmit diagnosis	Receive diagnosis						
				ECM	TCM	DISPLAY	ME-THR/ M&A	BCM/SEC	VDC/CS/ ABS	IPDM E/R
ENGINE	-	NG	UNKWN	-	✓	-	UNKWN	UNKWN	✓	UNKWN
TRANSMISSION	No indication	NG	UNKWN	UNKWN	-	-	UNKWN		UNKWN	-
Display control unit		CAN COMM	CAN CIRC 1	CAN CIRC 3	-	-	CAN CIRC 5	CAN CIRC 2		CAN CIRC 7
METER A/C AMP	No indication		UNKWN	UNKWN	✓	UNKWN	-	UNKWN	✓	UNKWN
BCM	No indication	NG	UNKWN	UNKWN	-	-	UNKWN			UNKWN
AUTO DRIVE POS.	No indication	NG	UNKWN	-	✓	-	UNKWN	UNKWN	-	-
ABS		NG	UNKWN	UNKWN	UNKWN	-	-			
IPDM E/R	No indication		UNKWN	UNKWN	-	-	-	UNKWN		

WKIA2385E

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LAN

Circuit Check Between TCM and Data Link Connector**1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

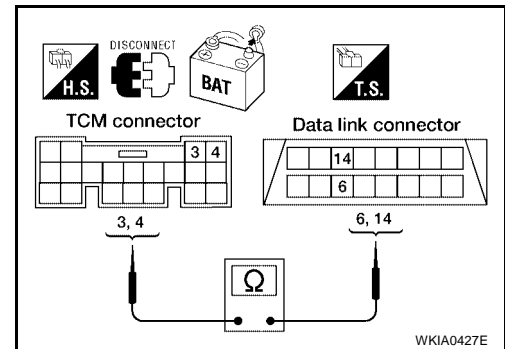
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between TCM connector F56 terminals 3 (L), 4 (Y) and data link connector M22 terminals 6 (L), 14 (Y).

- 3 (L) - 6 (L) : Continuity should exist.**
4 (Y) - 14 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-454, "Work Flow"](#).
 NG >> Repair harness.

**Circuit Check Between Driver Seat Control Unit and Data Link Connector****1. CONNECTOR INSPECTION**

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

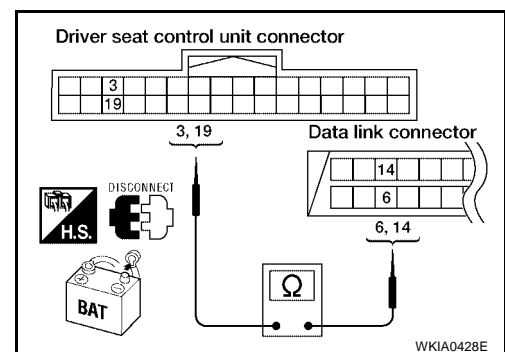
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and data link connector M22 terminals 6 (L), 14 (Y).

- 3 (BR) - 6 (L) : Continuity should exist.**
19 (Y/G) - 14 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-454](#).
 NG >> Repair harness.



Circuit Check Between Driver Seat Control Unit and ABS Actuator and Electric Unit (Control Unit)

EKS009YG

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2, ABS actuator and electric unit (control unit) connector E125 and ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
NG >> Repair or replace as necessary.

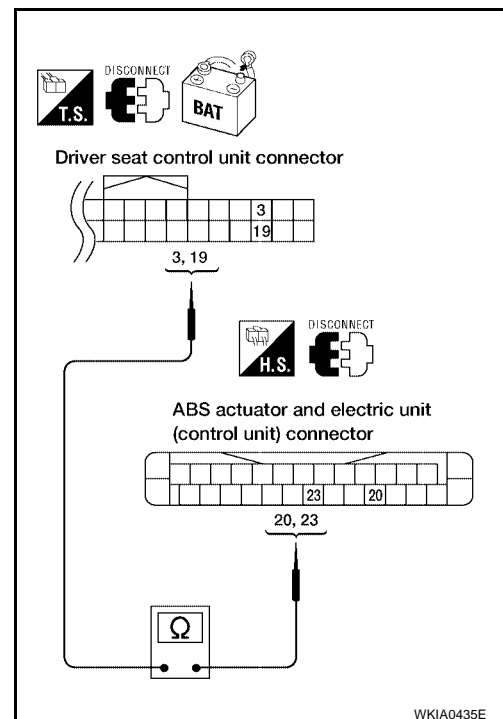
2. CHECK HARNESS FOR OPEN CIRCUIT

Check continuity between driver seat control unit connector P2 terminals 3 (BR), 19 (Y/G) and ABS actuator and electric unit (control unit) connector E125 terminals 20 (L), 23 (Y).

- 3 (BR) - 20 (L) : Continuity should exist.**
19 (Y/G) - 23 (Y) : Continuity should exist.

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-454](#).
NG >> Repair harness.



ECM Circuit Check

EKS009YH

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ECM connector M82.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

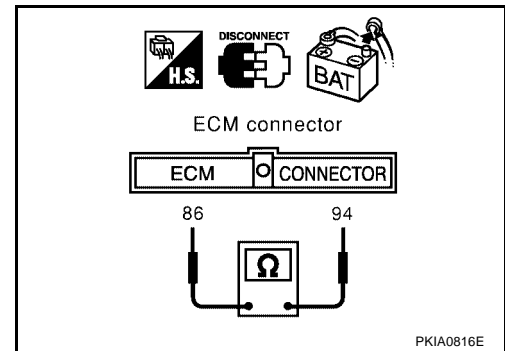
Check resistance between ECM connector M82 terminal 94 (L) and terminal 86 (Y).

94 (L) - 86 (Y)

: Approx. 108 - 132Ω

OK or NG

- OK >> Replace ECM.
 NG >> Repair harness between ECM connector M82 and TCM connector F56.



EKS009YI

TCM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect TCM connector F56.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

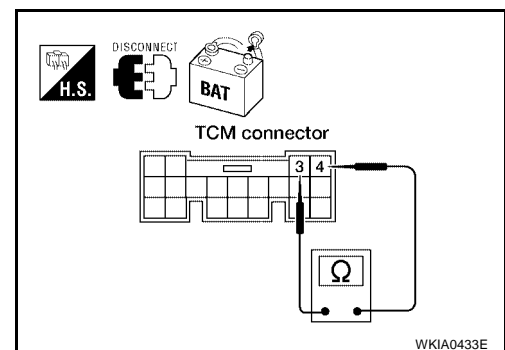
Check resistance between TCM connector F56 terminal 3 (L) and terminal 4 (Y).

3 (L) - 4 (Y)

: Approx. 54 - 66Ω

OK or NG

- OK >> Replace TCM.
 NG >> Repair harness between TCM connector F56 and ECM connector M82.



EKS009YJ

Display Control Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect display control unit connector M95.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

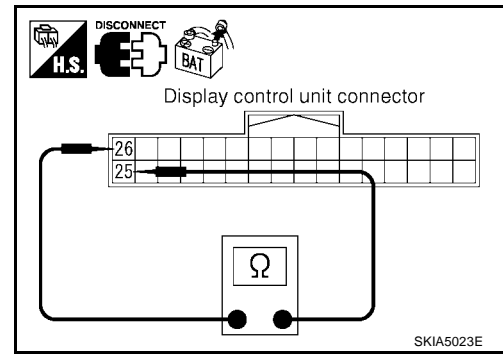
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between display control unit connector M95 terminal 25 (L) and terminal 26 (Y).

25 (L) - 26 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace display control unit.
 NG >> Repair harness between display control unit connector M95 and data link connector M22.



Data Link Connector Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Check data link connector M22 terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

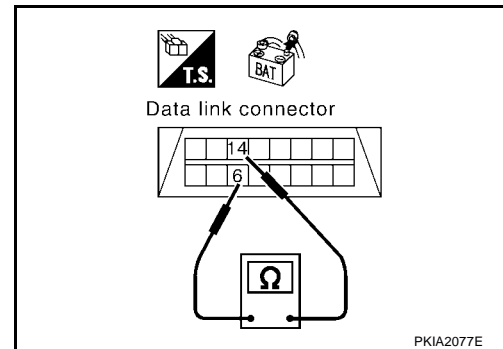
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between data link connector M22 terminal 6 (L) and terminal 14 (Y).

6 (L) - 14 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Connect all connectors and diagnose again. Refer to [LAN-454](#).
 NG >> Repair harness between data link connector M22 and BCM connector M18.



BCM Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect BCM connector M18.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

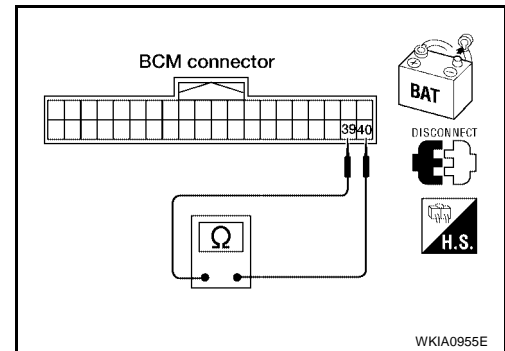
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between BCM connector M18 terminal 39 (L) and terminal 40 (Y).

39 (L) - 40 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace BCM.
 NG >> Repair harness between BCM connector M18 and data link connector M22.



EKS009YM

Unified Meter and A/C Amp. Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect unified meter and A/C amp. connector M49.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

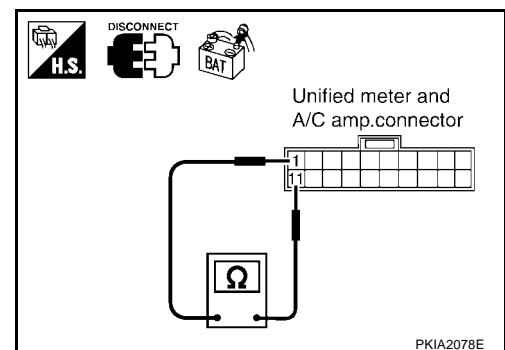
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between unified meter and A/C amp. connector M49 terminal 1 (L) and terminal 11 (Y).

1 (L) - 11 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace unified meter and A/C amp.
 NG >> Repair harness between unified meter and A/C amp. connector M49 and data link connector M22.



EKS009YM

Driver Seat Control Unit Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect driver seat control unit connector P2.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

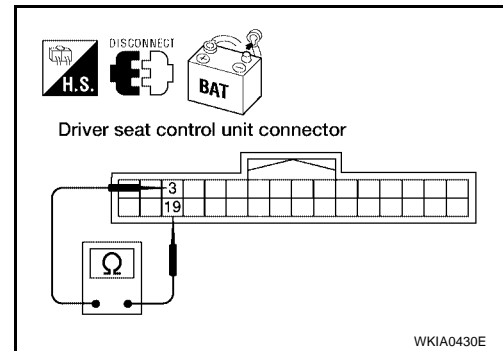
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between driver seat control unit connector P2 terminal 3 (BR) and terminal 19 (Y/G).

3 (BR) - 19 (Y/G) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace driver seat control unit.
 NG >> Repair harness between driver seat control unit connector P2 and data link connector M22.



ABS Actuator and Electric Unit (Control Unit) Circuit Check

EKS009Y0

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect ABS actuator and electric unit (control unit) connector E125.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

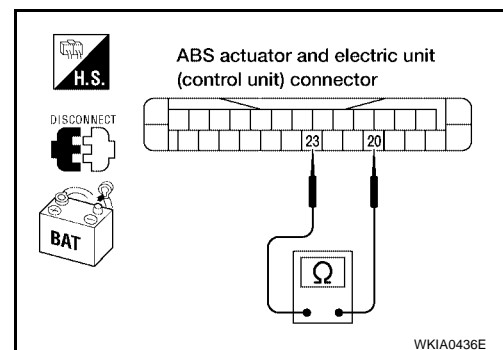
2. CHECK HARNESS FOR OPEN CIRCUIT

Check resistance between ABS actuator and electric unit (control unit) connector E125 terminal 20 (L) and terminal 23 (Y).

20 (L) - 23 (Y) : Approx. 54 - 66Ω

OK or NG

- OK >> Replace ABS actuator and electric unit (control unit).
 NG >> Repair harness between ABS actuator and electric unit (control unit) connector E125 and IPDM E/R connector E121.



IPDM E/R Circuit Check

EKS009YP

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect IPDM E/R connector E121.
4. Check the terminals for deformation, disconnection, looseness or damage.

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR OPEN CIRCUIT

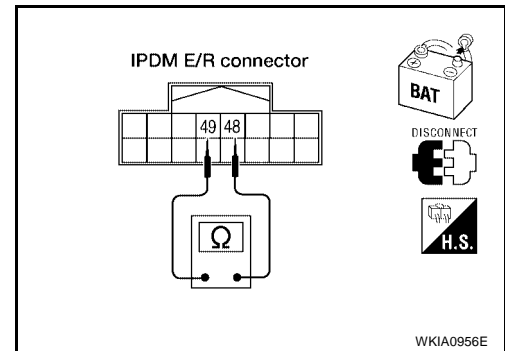
Check resistance between IPDM E/R connector E121 terminal 48 (L) and terminal 49 (Y).

48 (L) - 49 (Y)

: Approx. 108 - 132Ω

OK or NG

- OK >> Replace IPDM E/R.
 NG >> Repair harness between IPDM E/R connector E121 and ABS actuator and electric unit (control unit) connector E125.



CAN Communication Circuit Check

1. CONNECTOR INSPECTION

1. Turn ignition switch OFF.
2. Disconnect the negative battery terminal.
3. Disconnect the following module and control unit connectors and check terminals for deformation, disconnection, looseness or damage.
 - ECM
 - TCM (Transmission control module)
 - Display control unit
 - BCM (Body control module)
 - Unified meter and A/C amp.
 - Driver seat control unit
 - ABS actuator and electric unit (control unit)
 - IPDM E/R (Intelligent power distribution module engine room)

OK or NG

- OK >> GO TO 2.
 NG >> Repair or replace as necessary.

2. CHECK HARNESS FOR SHORTED CIRCUITS

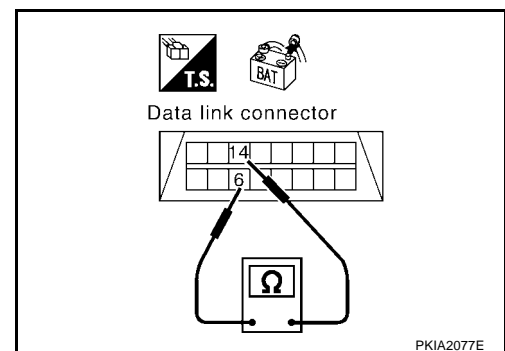
With all module and control unit connectors disconnected, check continuity between data link connector M22 terminals 6 (L) and 14 (Y).

6 (L) - 14 (Y)

: Continuity should not exist.

OK or NG

- OK >> GO TO 3.
 NG >> Repair the harness.



3. CHECK HARNESS FOR SHORT TO GROUND

Check continuity between data link connector M22 terminals 6 (L), 14 (Y) and ground.

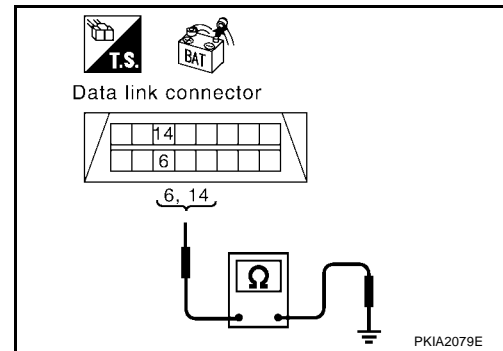
6 (L) - Ground : **Continuity should not exist.**

14 (Y) - Ground : **Continuity should not exist.**

OK or NG

OK >> Check ECM and IPDM E/R. Refer to [LAN-473, "Component Inspection"](#).

NG >> Repair the harness.



IPDM E/R Ignition Relay Circuit Check

EKS009YR

Check the following. If no problem is found, replace the IPDM E/R.

- IPDM E/R power supply circuit. Refer to [PG-24, "IPDM E/R Power/Ground Circuit Inspection"](#).
- Ignition power supply circuit. Refer to [PG-11, "IGNITION POWER SUPPLY — IGNITION SW. IN ON AND/OR START"](#).

Component Inspection

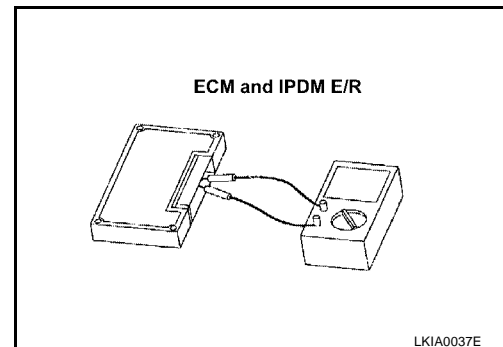
EKS009YS

ECM/IPDM E/R INTERNAL CIRCUIT INSPECTION

- Remove ECM and IPDM E/R from vehicle.
- Check resistance between ECM terminals 94 and 86.

94 - 86 : **Approx. 108 - 132Ω**
- Check resistance between IPDM E/R terminals 48 and 49.

48 - 49 : **Approx. 108 - 132Ω**



A
B
C
D
E
F
G
H
I
J
L
M

LAN

