SECTION ADP
AUTOMATIC DRIVE POSITIONER

CONTENTS

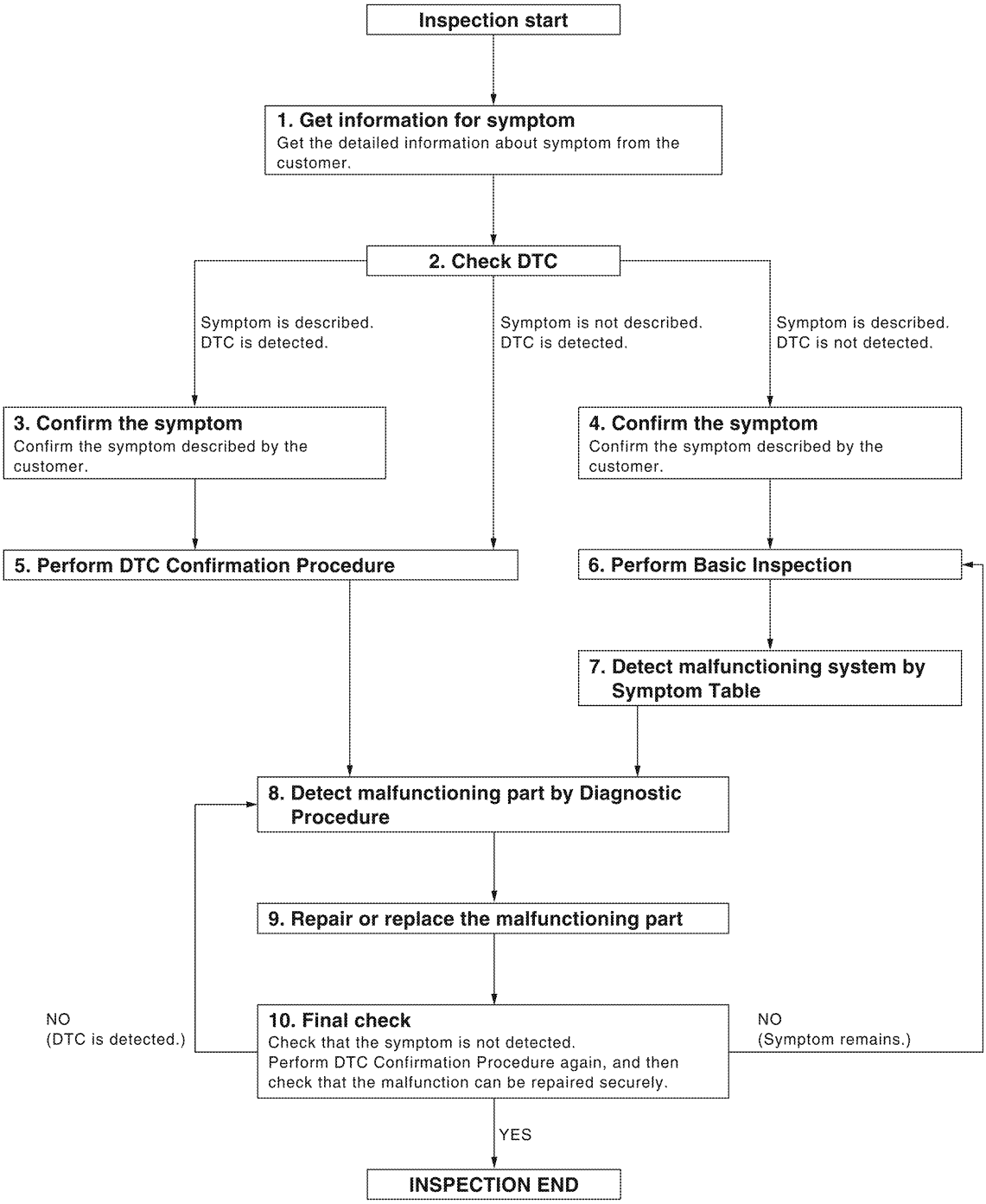
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:0000000001672982

WORK FLOW



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DETAILED FLOW

1. GET INFORMATION FOR SYMPTOM

Get the detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurred).

>> GO TO 2.

2. CHECK DTC WITH AUTOMATIC DRIVE POSITIONER SYSTEM

Check “Self Diagnostic Result” with CONSULT-III.
Refer to ADP-115, "DTC Index".

Is any symptom described and any DTC is displayed?

Symptom is described, DTC is displayed.>>GO TO 3
Symptom is not described, DTC is displayed.>>GO TO 7
Symptom is described, DTC is not displayed.>>GO TO 4

3. CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

>> GO TO 7

4. CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

>> GO TO 5

5. CHECK NORMAL OPERATING CONDITION

Check normal operating condition. Refer to ADP-135, "Description".

Is the incident normal operation?

YES >> INSPECTION END
NO >> GO TO 6

6. PERFORM BASIC INSPECTION

Isolate the malfunctioning point with the basic inspection. Refer to ADP-7, "Preliminary Check".

>> GO TO 8

7. PERFORM DTC CONFIRMATION PROCEDURE

Perform the confirmation procedure for the detected DTC.

Is the DTC displayed?

YES >> GO TO 9
NO >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

8. PERFORM COMPONENT FUNCTION CHECK

Perform the component function check for the isolated malfunctioning point.

>> GO TO 9

9. DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Isolate the malfunctioning point by performing the diagnosis procedure relevant to the symptom during the component diagnosis.

>> GO TO 10

10. REPAIR OR REPLACE

Repair or replace the malfunctioning part.

< BASIC INSPECTION >

>> GO TO 11

11. FINAL CHECK

Perform the DTC confirmation procedure (if DTC is detected) or component function check (if no DTC is detected) again, and then check that the malfunction can be repaired securely.

Are all malfunctions corrected?

YES >> INSPECTION END
Symptom is detected.>> GO TO 4
DTC is detected.>> GO TO 7

INSPECTION AND ADJUSTMENT

Preliminary Check

INFOID:0000000001672983

1. FOREIGN OBJECTS

Check the following:
- objects on or behind the seats that could cause binding
- objects under the seats that may be interfering with the seat's moving parts
- objects under pedals that may interfere with movement

Are there any foreign objects that could be causing interference?

YES >> Remove objects.
NO >> GO TO 2

2. WIRING CONNECTIONS

1. Disconnect harness connectors.
2. Check terminals for damage or loose connections.
3. Reconnect harness connectors.

Are any connectors damaged or loose?

YES >> Repair or replace damaged parts.
NO >> GO TO 3

3. POWER AND GROUND

Check power supply and ground circuits for control unit. Refer to ADP-41, "DRIVER SEAT CONTROL UNIT : Diagnosis Procedure".

Is the inspection result normal?

YES >> Refer to ADP-115, "DTC Index".
NO >> Repair or replace as necessary.

Special Repair Requirement

INFOID:0000000001672984

Refer to Owner's Manual for Automatic Drive Positioner system operating instructions.

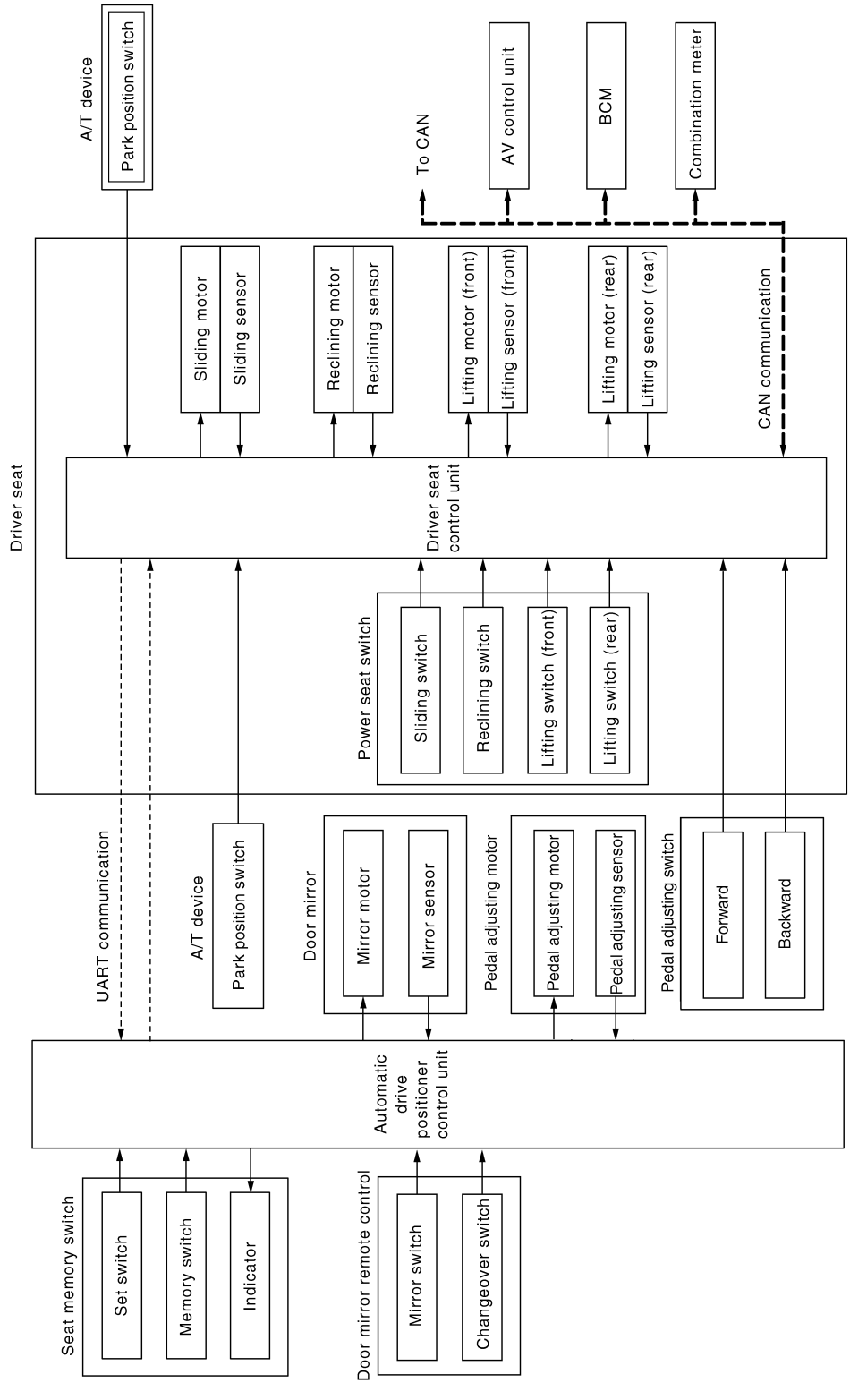
FUNCTION DIAGNOSIS

AUTOMATIC DRIVE POSITIONER SYSTEM

AUTOMATIC DRIVE POSITIONER SYSTEM

AUTOMATIC DRIVE POSITIONER SYSTEM : System Diagram

INFOID:0000000001672985



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AUTOMATIC DRIVE POSITIONER SYSTEM : Component Parts Location

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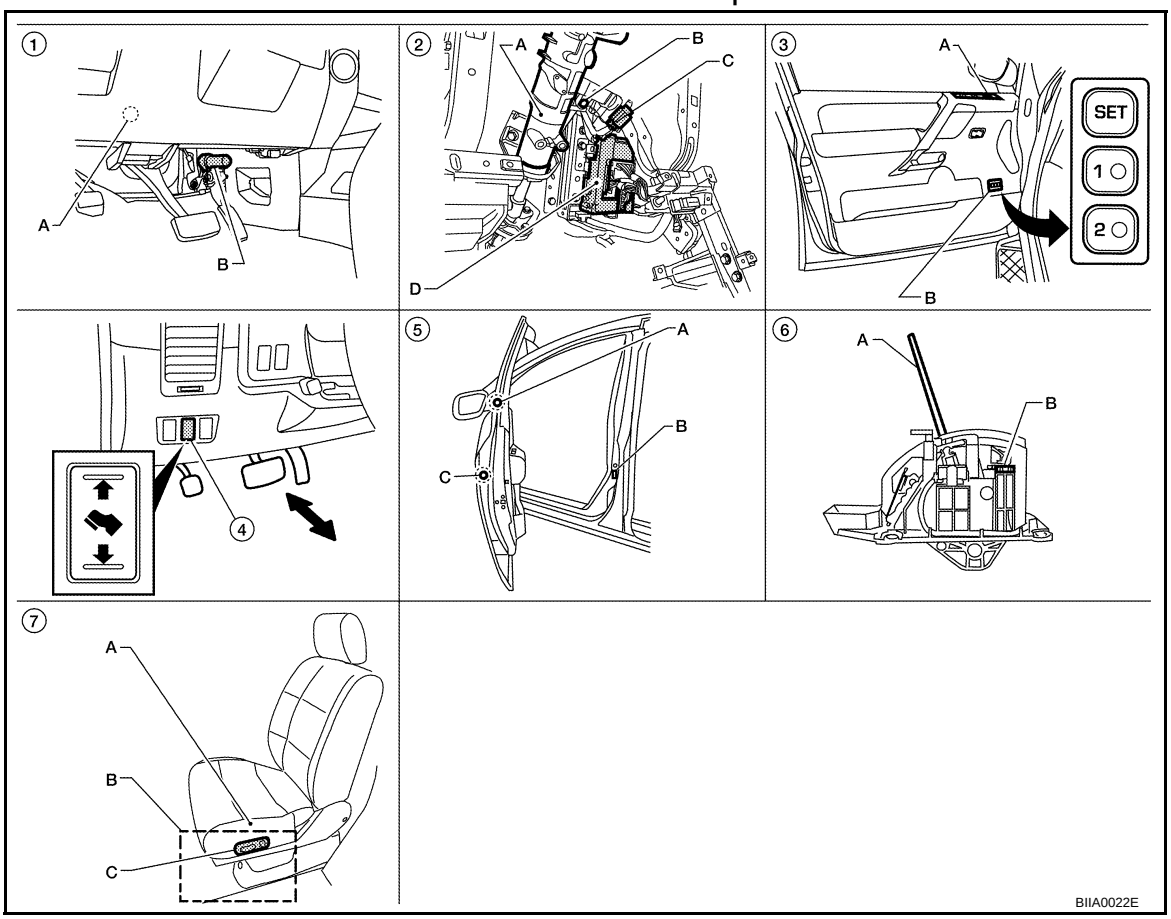


1. A. Automatic drive positioner control unit M33, M34
   B. Pedal adjusting motor E109, E110
2. A. Steering column
   B. A/T device (park position switch) M68 (column shift)
   C. Key switch and key lock solenoid M27 (floor shift)
   D. BCM M18, M19, M20 (view with instrument panel removed)
3. A. Door mirror remote control switch D10
   B. Seat memory switch D5
4. Pedal adjusting switch M96
5. A. Door mirrror LH D4, RH D107
   B. Front door switch LH B8
   C. Front door lock assembly LH (key cylinder switch) D14
6. A. A/T selector lever
   B. A/T device (park position switch) M203 (floor shift)
7. A. Sliding motor LH B204 (driver seat view), reclining motor LH B205, lifting motor (front) B206, lifting motor (rear) B207
   B. Driver seat control unit B202, B203
   C. Power seat switch LH B208

AUTOMATIC DRIVE POSITIONER SYSTEM : System Description

INFOID:0000000001672987

OUTLINE

The system automatically moves the driver seat, pedal assembly and door mirror position by the driver seat control unit and the automatic drive positioner control unit. The driver seat control unit corresponds with the automatic drive positioner control unit by UART communication.

Function		Description
Manual function		The driving position (seat, pedal assembly and door mirror position) can be adjusted by using the power seat switch, pedal adjusting switch or door mirror remote control switch.
Memory function		The seat, pedal assembly and outside mirror move to the stored driving position by pressing seat memory switch (1 or 2).
Entry/Exit assist function	Exit	On exit, the seat moves backward.
	Entry	On entry, the seat returns from exiting position to the previous driving position.
Intelligent Key interlock function		Perform memory operation, exiting operation and entry operation by Intelligent Key unlock operation or driver side door request switch unlock operation .

AUTOMATIC DRIVE POSITIONER SYSTEM : Component Description

INFOID:0000000001672988

CONTROL UNITS

Item	Function
Driver seat control unit	• Main unit of automatic drive positioner system • It is connected to the CAN. • It communicates with the automatic drive positioner control unit via UART communication.
Automatic drive positioner control unit	• It communicates with the driver seat control unit via UART communication. • Perform various controls with the instructions of driver seat control unit. • Perform the controls of the pedal adjusting, door mirror and the seat memory switch.
BCM	Transmit the following status to the driver seat control unit via CAN communication. • Front door LH: OPEN/CLOSE • Ignition switch position: ACC/ON • Door lock: UNLOCK (with Intelligent Key or remote keyless entry request switch operation) • Key ID • Key switch: Insert/Pull out Intelligent Key or ignition key • Starter: CRANKING/OTHER
Combination meter	Transmit the vehicle speed signal to the driver seat control unit via CAN communication.
NAVI control unit/AV control unit	The setting change of auto drive positioner system can be performed on the display.
A/T device (park position switch)	Transmit the shift position signal (P range) to the driver seat control unit.

INPUT PARTS

Switches

Item	Function
Key switch and ignition knob switch	The key switch is installed to detect the key inserted/removed status.
Front door switch LH	Detect front door (driver side) open/close status.
A/T device (park position switch)	Detect the P range position of A/T selector lever.
Set switch	The registration and system setting can be performed with its operation.
Seat memory switch 1/2	The registration and operation can be performed with its operation.
Power seat switch	The following switch is installed. • Reclining switch • Lifting switch (front) • Lifting switch (rear) • Sliding switch The specific parts can be operated with the operation of each switch.

Item	Function
Pedal adjusting switch	The following switch is installed. • Pedal forward • Pedal backward The specific parts can be operated with the operation of each switch.
Door mirror remote control switch	The following switch is installed. • Mirror switch • Changeover switch The specific parts can be operated with the operation of each switch.

Sensors

Item	Function
Door mirror sensor (LH/RH)	Detect the up/down and left/right position of outside mirror face.
Pedal adjusting sensor	Detect the forward/backward position of pedal assembly.
Lifting sensor (front)	Detect the up/down position of seat lifting (front).
Lifting sensor (rear)	Detect the up/down position of seat lifting (rear).
Reclining sensor	Detect the tilt of seatback.
Sliding sensor	Detect the front/rear position of seat.

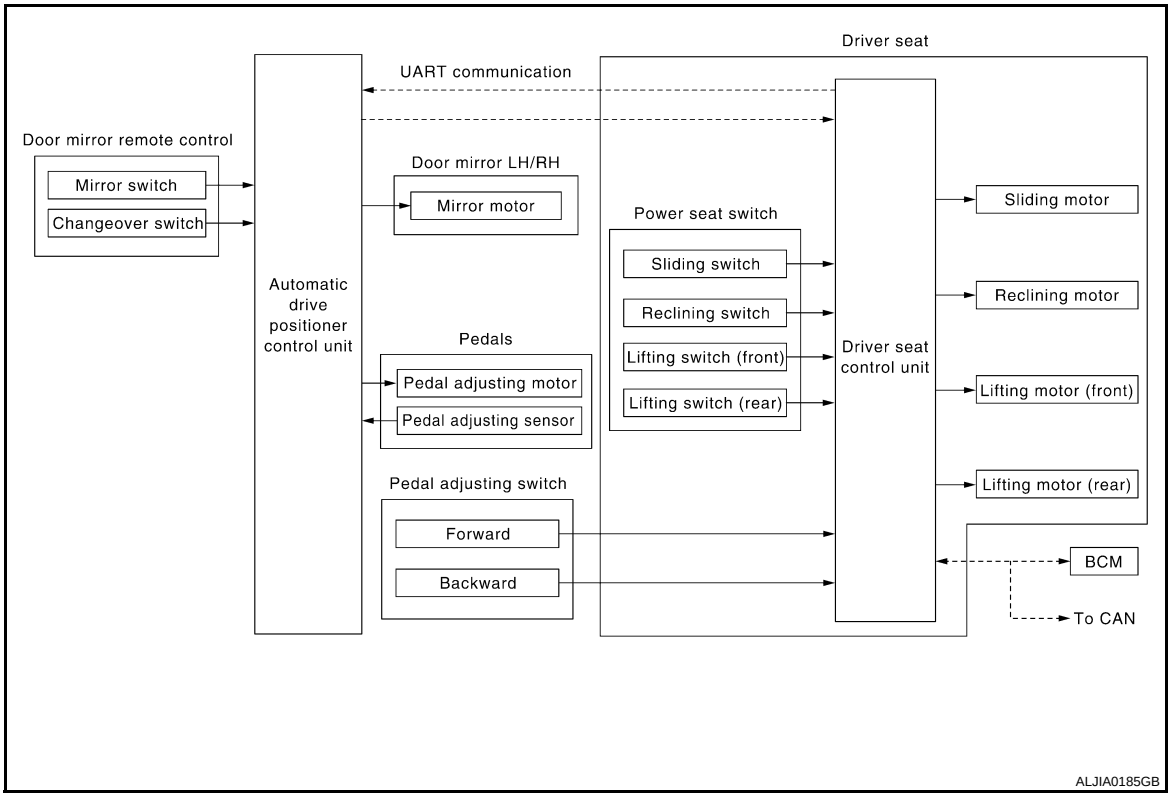
OUTPUT PARTS

Item	Function
Door mirror motor (LH/RH)	Move the outside mirror face upward/downward and leftward/rightward.
Pedal adjusting motor	Move the pedal assembly forward/backward.
Lifting motor (front)	Move the seat lifting (front) upward/downward.
Lifting motor (rear)	Move the seat lifting (rear) upward/downward.
Reclining motor	Tilt and raise up the seatback.
Sliding motor	Slide the seat forward/backward.
Seat memory indicator	Illuminates or flashes according to the registration/operation status.

MANUAL FUNCTION

MANUAL FUNCTION : System Diagram

INFOID:0000000001672989



MANUAL FUNCTION : System Description

INFOID:0000000001672990

OUTLINE

The driving position (seat, pedal assembly and door mirror position) can be adjusted manually with power seat switch, pedal adjusting switch and door mirror remote control switch.

OPERATION PROCEDURE

1. Turn ignition switch ON.
2. Operate power seat switch, pedal adjusting switch or door mirror remote control switch.
3. The driver seat, pedal assembly or door mirror operates according to the operation of each switch.

DETAIL FLOW

Seat

Order	Input	Output	Control unit condition
1	Power seat switch (sliding, lifting, reclining)	—	The power seat switch signal is inputted to the driver seat control unit when the power seat switch is operated.
2	—	Motors (sliding, lifting, reclining)	The driver seat control unit outputs signals to each motor according to the power seat switch input signal.

Adjustable pedals

Order	Input	Output	Control unit condition
1	Pedal adjusting switch	—	The pedal adjusting switch signal is input to the automatic drive positioner control unit when the pedal adjusting switch is operated.

Order	Input	Output	Control unit condition
2	—	Motor	The automatic drive positioner control unit actuates the motor according to the operation of the pedal adjusting switch signal from the driver seat control unit.
3	Sensors (forward, backward)	—	The automatic drive positioner control unit recognizes any operation limit of each actuator via each sensor and will not operate the actuator anymore at that time.

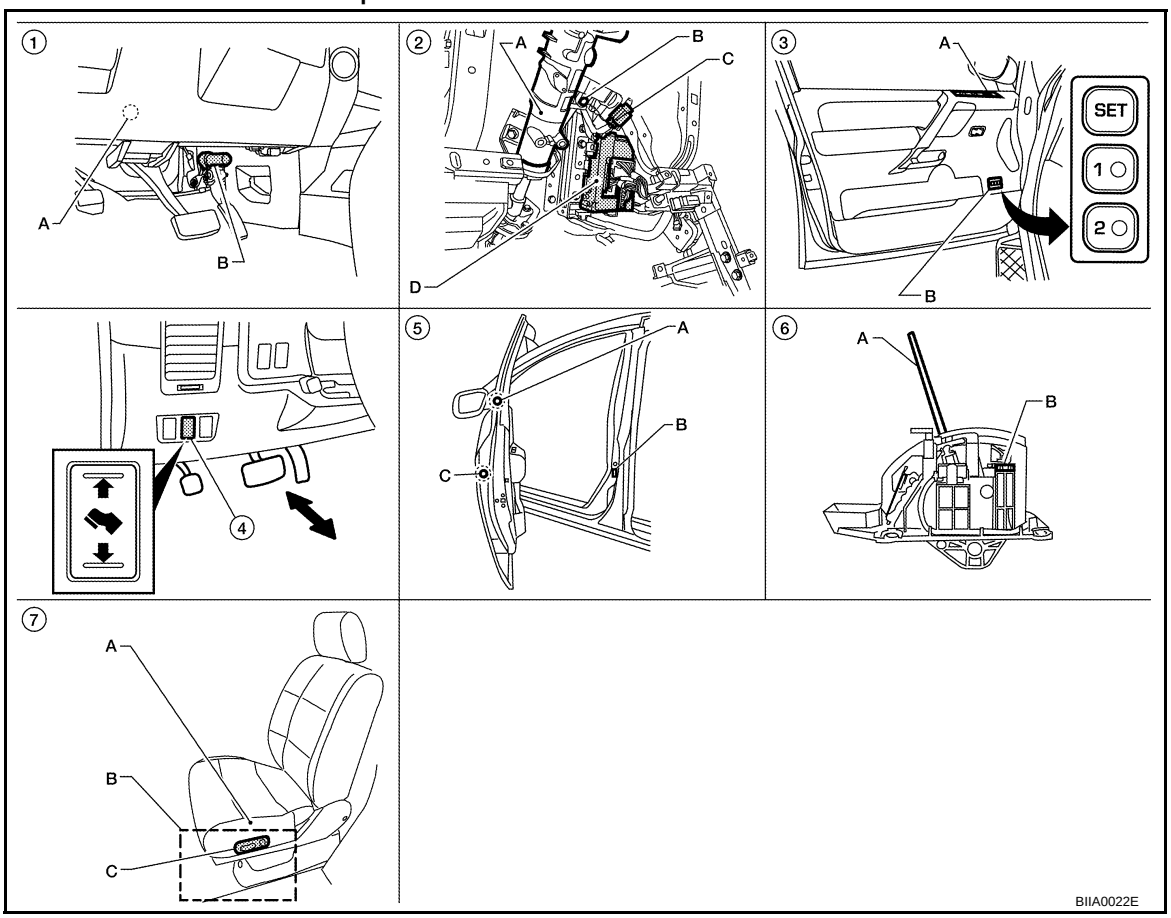
Door Mirror

Order	Input	Output	Control unit condition
1	Door mirror remote control switch	—	The door mirror remote control switch signal is inputted to the automatic drive positioner control unit when the door mirror remote control switch is operated.
2	—	Motors (Door mirror motor)	The automatic drive positioner control unit actuates each motor according to the operation of the door mirror remote control switch.

NOTE:
The door mirrors can be operated manually when ignition switch is in either ACC or ON position. The ignition switch signal (ACC/ON) is transmitted from BCM to the driver seat control unit via CAN communication and from the driver seat control unit to the automatic drive positioner control unit via UART communication.

MANUAL FUNCTION : Component Parts Location

INFOID:0000000001672991



1. A. Automatic drive positioner control unit M33, M34
   B. Pedal adjusting motor E109, E110
2. A. Steering column
   B. A/T device (park position switch) M68 (column shift)
   C. Key switch and key lock solenoid M27 (floor shift)
   D. BCM M18, M19, M20 (view with instrument panel removed)
3. A. Door mirror remote control switch D10
   B. Seat memory switch D5
4. Pedal adjusting switch M96
5. A. Door mirrror LH D4, RH D107
   B. Front door switch LH B8
   C. Front door lock assembly LH (key cylinder switch) D14
6. A. A/T selector lever
   B. A/T device (park position switch) M203 (floor shift)
7. A. Sliding motor LH B204 (driver seat view), reclining motor LH B205, lifting motor (front) B206, lifting motor (rear) B207
   B. Driver seat control unit B202, B203
   C. Power seat switch LH B208

MANUAL FUNCTION : Component Description

INFOID:0000000001672992

CONTROL UNITS

Item	Function
Driver seat control unit	• Operates the specific seat motor with the signal from the power seat switch. • Transmits the ignition switch signal (ACC/ON) via UART communication to the automatic drive positioner control unit. • Transmits the pedal adjusting switch signal via UART communication to the automatic drive positioner control unit.
Automatic drive positioner control unit	Operates the specific motor with the signal from driver seat control unit or door mirror remote control switch.
BCM	Recognizes the following status and transmits it to the driver seat control unit via CAN communication. • Ignition position: ACC/ON

INPUT PARTS

Switches

Item	Function
Power seat switch	The following switch is installed. • Reclining switch • Lifting switch (front) • Lifting switch (rear) • Sliding switch The specific parts can be operated with the operation of each switch.
Pedal adjusting switch	The following switch is installed. • Pedal forward • Pedal backward The specific parts can be operated with the operation of each switch.
Door mirror remote control switch	The following switch is installed. • Mirror switch • Changeover switch The specific parts can be operated with the operation of each switch.

Sensors

Item	Function
Pedal adjusting sensor	Detect the forward/backward position of pedal assembly.

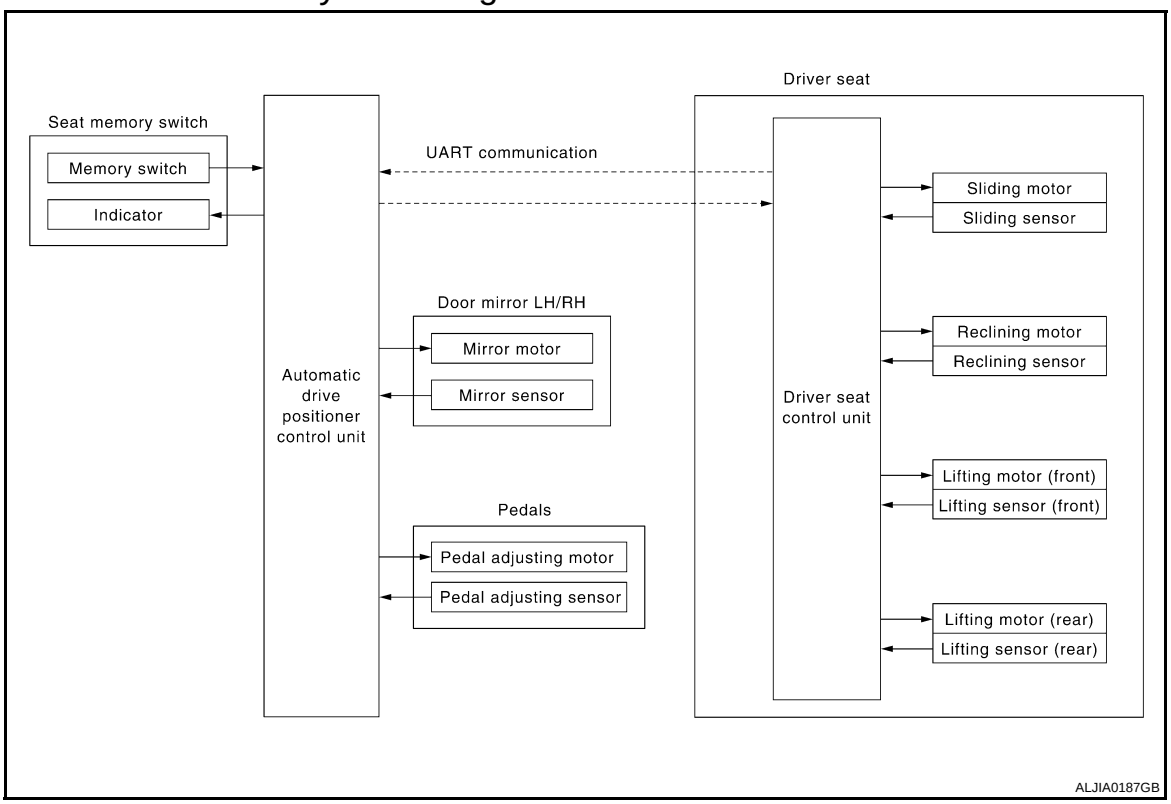
OUTPUT PARTS

Item	Function
Door mirror motor (LH/RH)	Move the outside mirror face upward/downward and leftward/rightward.
Pedal adjusting motor	Move the pedal assembly forward/backward.
Lifting motor (front)	Move the seat lifter (front) upward/downward.
Lifting motor (rear)	Move the seat lifter (rear) upward/downward.
Reclining motor	Tilt and raise up the seatback.
Sliding motor	Slide the seat forward/backward.

MEMORY FUNCTION

MEMORY FUNCTION : System Diagram

INFOID:0000000001672993



MEMORY FUNCTION : System Description

INFOID:0000000001672994

OUTLINE

The driver seat control unit can store the optimum driving positions (seat, pedal assembly and door mirror position) for 2 people. If the front seat position is changed, one-touch (pressing desired memory switch for more than 0.5 second) operation allows changing to the other driving position.

NOTE:

Further information for the memory storage procedure. Refer to Owner's Manual.

OPERATION PROCEDURE

1. Turn ignition switch ON
2. Press desired memory switch for more than 0.5 second.
3. Front seat LH, pedal assembly and door mirror will move to the memorized position.

OPERATION CONDITION

Satisfy all of the following items. The memory function is not performed if these items are not satisfied.

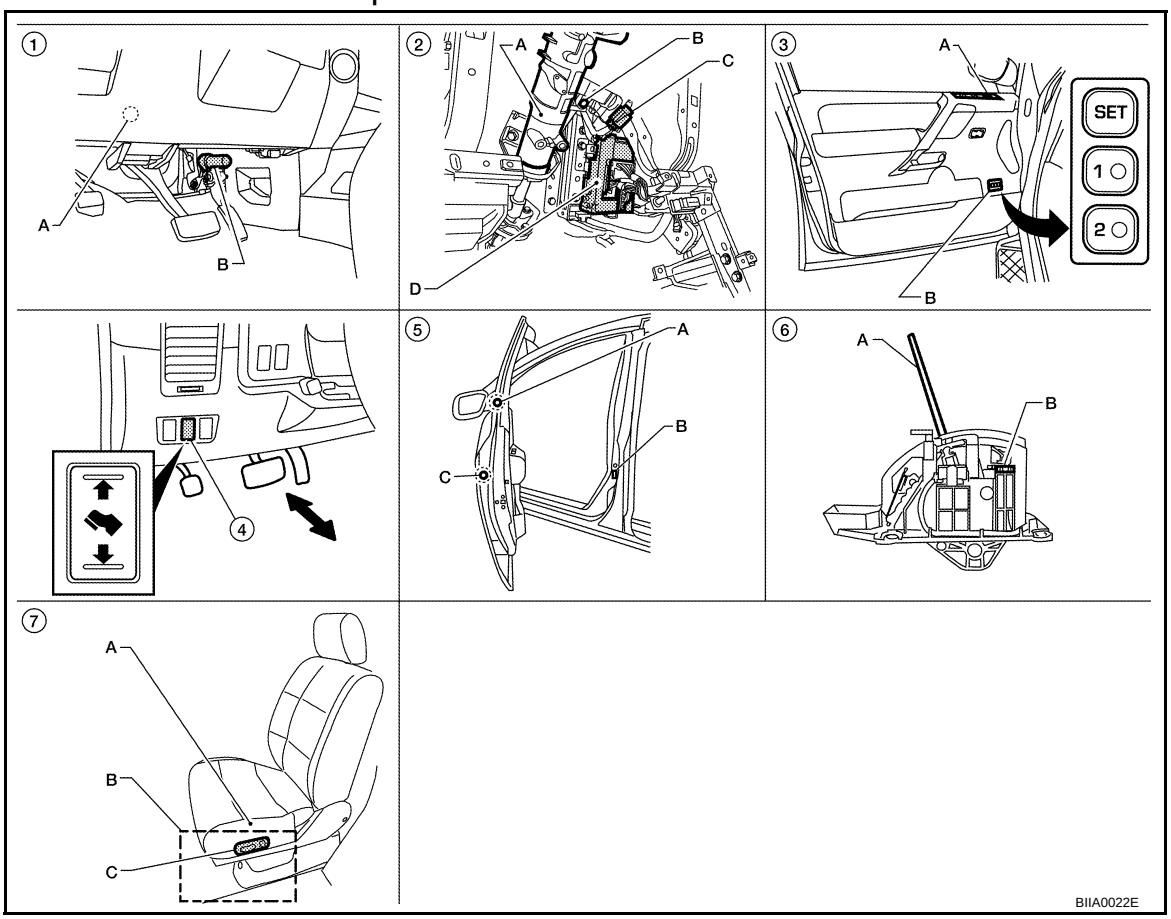
Item	Request status
Ignition position	ON
Switch inputs • Power seat switch • Pedal adjusting switch • Door mirror control switch • Set switch • Seat memory switch	OFF (Not operated)
A/T selector lever	P position

DETAIL FLOW

Order	Input	Output	Control unit condition
1	Memory switch	—	The memory switch signal is inputted to the automatic drive positioner control unit when memory switch 1 or 2 is operated. Memory switch signal is input to driver seat control unit via UART communication.
2	—	Motors (seat, pedal adjusting, door mirror)	Driver seat control unit operates each motor of seat when it recognizes the memory switch pressed for 0.5 second or more and requests each motor operation to automatic drive positioner control unit via UART communication. The automatic drive positioner control unit operates each motor.
		Memory switch Indicator	Driver seat control unit requests the flashing of memory indicator to automatic drive positioner control unit via UART communication while either of the motors is operating. The automatic drive positioner control unit illuminates the memory indicator.
3	Sensors (seat, pedal adjusting, door mirror)	—	Driver seat control unit judges the operating seat position with each seat sensor input. The positions of the adjustable pedals and outside mirror are monitored with each sensor signal that is input from auto drive positioner control unit via UART communication. Driver seat control unit stops the operation of each motor when each part reaches the recorded address.
4	—	Memory switch Indicator	Driver seat control unit requests the illumination of memory indicator to auto drive positioner control unit via UART communication after all motors stop. The auto driving positioner control unit illuminates the memory indicator for 5 seconds.

MEMORY FUNCTION : Component Parts Location

INFOID:0000000001672995



1. A. Automatic drive positioner control unit M33, M34
   B. Pedal adjusting motor E109, E110
2. A. Steering column
   B. A/T device (park position switch) M68 (column shift)
   C. Key switch and key lock solenoid M27 (floor shift)
   D. BCM M18, M19, M20 (view with instrument panel removed)
3. A. Door mirror remote control switch D10
   B. Seat memory switch D5
4. Pedal adjusting switch M96
5. A. Door mirrror LH D4, RH D107
   B. Front door switch LH B8
   C. Front door lock assembly LH (key cylinder switch) D14
6. A. A/T selector lever
   B. A/T device (park position switch) M203 (floor shift)
7. A. Sliding motor LH B204 (driver seat view), reclining motor LH B205, lifting motor (front) B206, lifting motor (rear) B207
   B. Driver seat control unit B202, B203
   C. Power seat switch LH B208

MEMORY FUNCTION : Component Description

INFOID:0000000001672996

CONTROL UNITS

Item	Function
Driver seat control unit	• The address of each part is recorded. • Operates each motor of seat to the registered position. • Requests the operations of pedal assembly and door mirror to automatic drive positioner control unit
Automatic drive positioner control unit	Operates the pedal adjusting motor and door mirror with the instructions from the driver seat control.

INPUT PARTS

Switches

Item	Function
Memory switch 1/2	The registration and memory function can be performed with its operation.

Sensors

Item	Function
Door mirror sensor (LH/RH)	Detect the up/down and left/right position of outside mirror face.
Pedal adjusting sensor	Detect the forward/backward position of pedal assembly.
Lifting sensor (front)	Detect the up/down position of seat lifting (front).
Lifting sensor (rear)	Detect the up/down position of seat lifting (rear).
Reclining sensor	Detect the tilt of seatback.
Sliding sensor	Detect the front/rear position of seat.

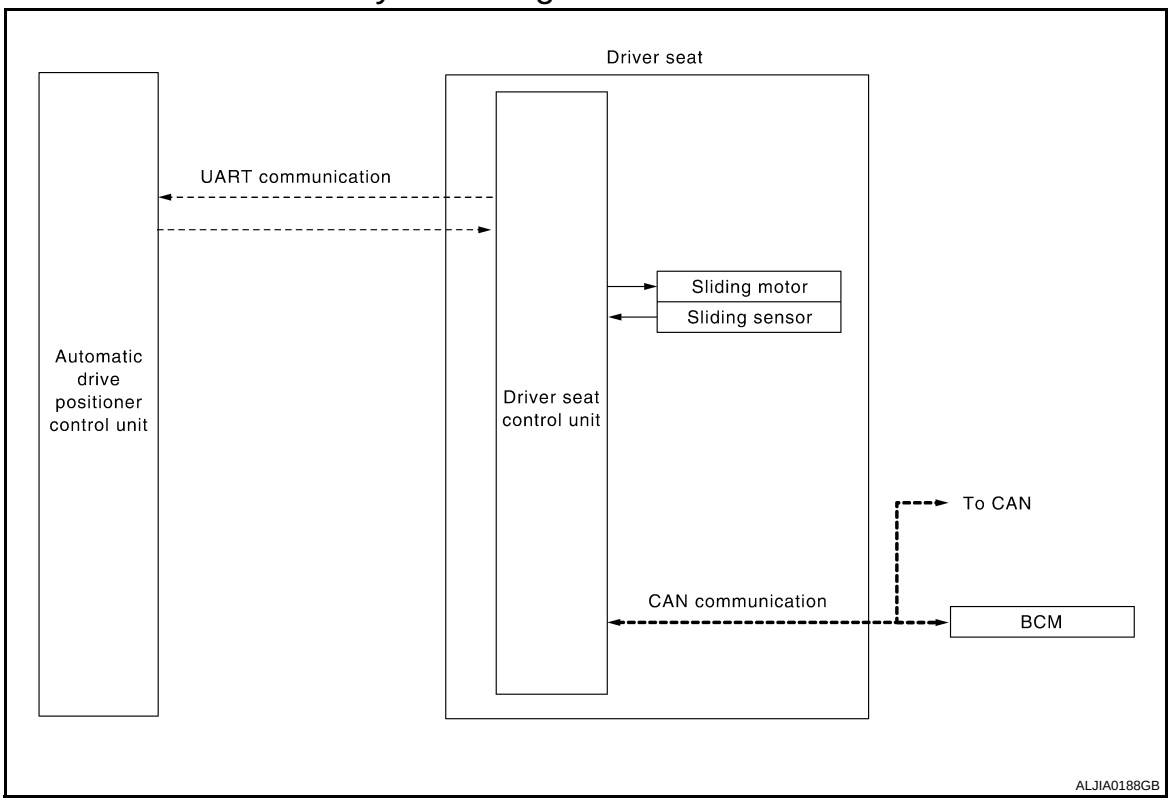
OUTPUT PARTS

Item	Function
Door mirror motor (LH/RH)	Move the outside mirror face upward/downward and leftward/rightward.
Pedal adjusting motor	Move the pedal assembly forward/backward.
Lifting motor (front)	Move the seat lifter (front) upward/downward.
Lifting motor (rear)	Move the seat lifter (rear) upward/downward.
Reclining motor	Tilt and raise up the seatback.
Sliding motor	Slide the seat forward/backward.
Memory indicator	Illuminates or blinks according to the registration/operation status.

EXIT ASSIST FUNCTION

EXIT ASSIST FUNCTION : System Diagram

INFOID:0000000001672997



EXIT ASSIST FUNCTION : System Description

INFOID:0000000001672998

OUTLINE

When exiting, if the conditions are satisfied, the seat is moved backward from normal sitting position.
The seat slide amount at entry/exit operation can be changed.

NOTE:

- This function is set to OFF before delivery (initial setting).
- Further information for the system setting procedure. Refer to Owner's Manual.

OPERATION PROCEDURE

1. Open the driver door with ignition switch in OFF position.
2. Front seat LH will move to the exiting position.

OPERATION CONDITION

Satisfy all of the following items. The exit assist function is not performed if these items are not satisfied.

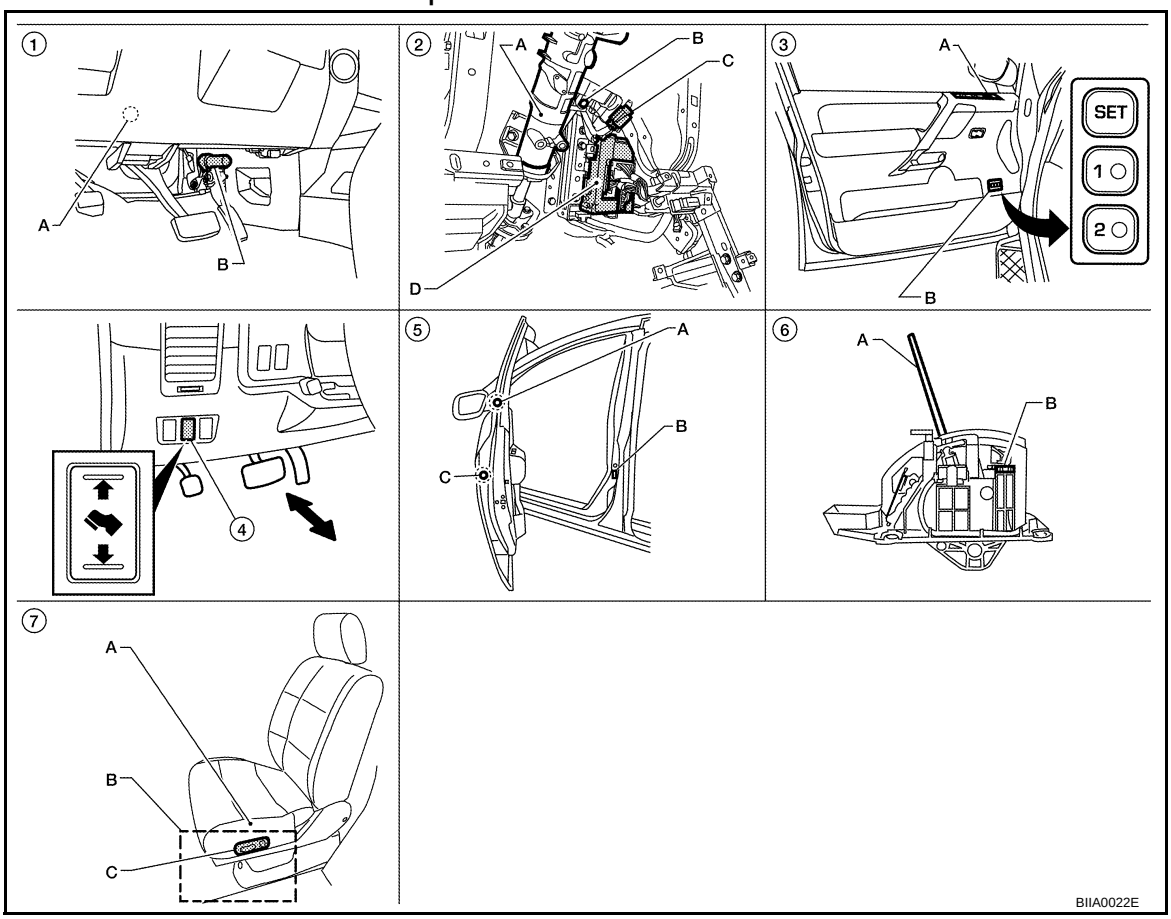
Item	Request status
Ignition switch	OFF
System setting [Entry/exit assist function]	ON
Initialization	Done
Switch inputs • Power seat switch • Pedal adjusting switch • Door mirror remote control switch • Set switch • Seat memory switch	OFF (Not operated)
A/T selector lever	P position

DETAIL FLOW

Order	Input	Output	Control unit condition
1	Front door switch LH	—	Driver seat control unit receives front door switch LH signal (open) from BCM via CAN communication.
2	—	Motor (seat sliding)	Driver seat control unit operates the seat sliding motor, which recognizes that the front door LH is opened with ignition switch OFF.

EXIT ASSIST FUNCTION : Component Parts Location

INFOID:0000000001672999



1. A. Automatic drive positioner control unit M33, M34
   B. Pedal adjusting motor E109, E110
2. A. Steering column
   B. A/T device (park position switch) M68 (column shift)
   C. Key switch and key lock solenoid M27 (floor shift)
   D. BCM M18, M19, M20 (view with instrument panel removed)
3. A. Door mirror remote control switch D10
   B. Seat memory switch D5
4. Pedal adjusting switch M96
5. A. Door mirrror LH D4, RH D107
   B. Front door switch LH B8
   C. Front door lock assembly LH (key cylinder switch) D14
6. A. A/T selector lever
   B. A/T device (park position switch) M203 (floor shift)
7. A. Sliding motor LH B204 (driver seat view), reclining motor LH B205, lifting motor (front) B206, lifting motor (rear) B207
   B. Driver seat control unit B202, B203
   C. Power seat switch LH B208

EXIT ASSIST FUNCTION : Component Description

INFOID:0000000001673000

CONTROL UNITS

Item	Function
Driver seat control unit	Operates the seat sliding motor for a constant amount.
BCM	Recognizes the following status and transmits it to the driver seat control unit via CAN communication. • Front door LH: OPEN/CLOSE

INPUT PARTS

Switches

Item	Function
Front door switch LH	Detect front door LH open/close status.

Sensors

Item	Function
Sliding sensor	Detect the front/rear position of seat.

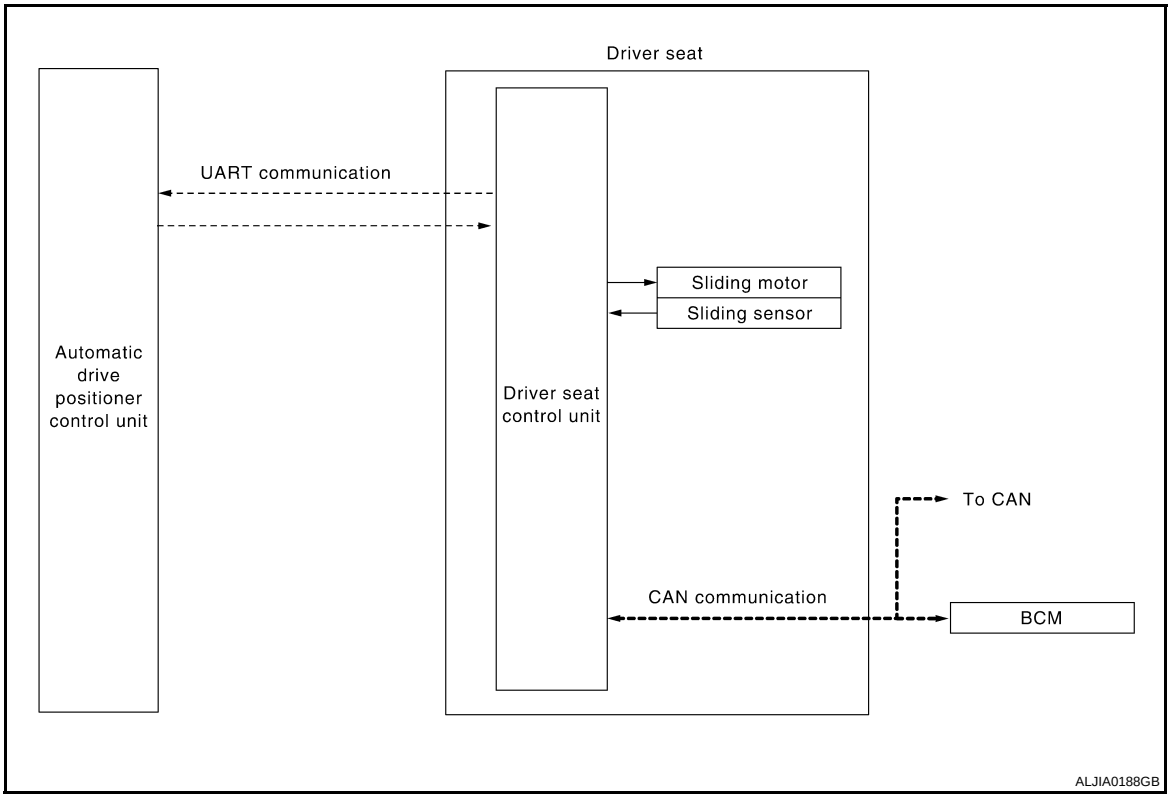
OUTPUT PARTS

Item	Function
Sliding motor	Slide the seat forward/backward.

ENTRY ASSIST FUNCTION

ENTRY ASSIST FUNCTION : System Diagram

INFOID:0000000001673001



ENTRY ASSIST FUNCTION : System Description

INFOID:0000000001673002

OUTLINE

The seat is in the exiting position when either following condition (A or B) is satisfied, the seat returns from exiting position to the previous driving position.

NOTE:

- This function is set to OFF before delivery (initial setting).
- Further information for the system setting procedure. Refer to Owner's Manual.

OPERATION PROCEDURE

1. A: Turn the ignition switch ON.
   B: Turn the ignition switch from OFF to ACC after closing the driver door.
2. Front seat LH will return from the exiting position to entry position.

OPERATION CONDITION

Satisfy all of the following items. The entry assist function is not performed if these items are not satisfied.

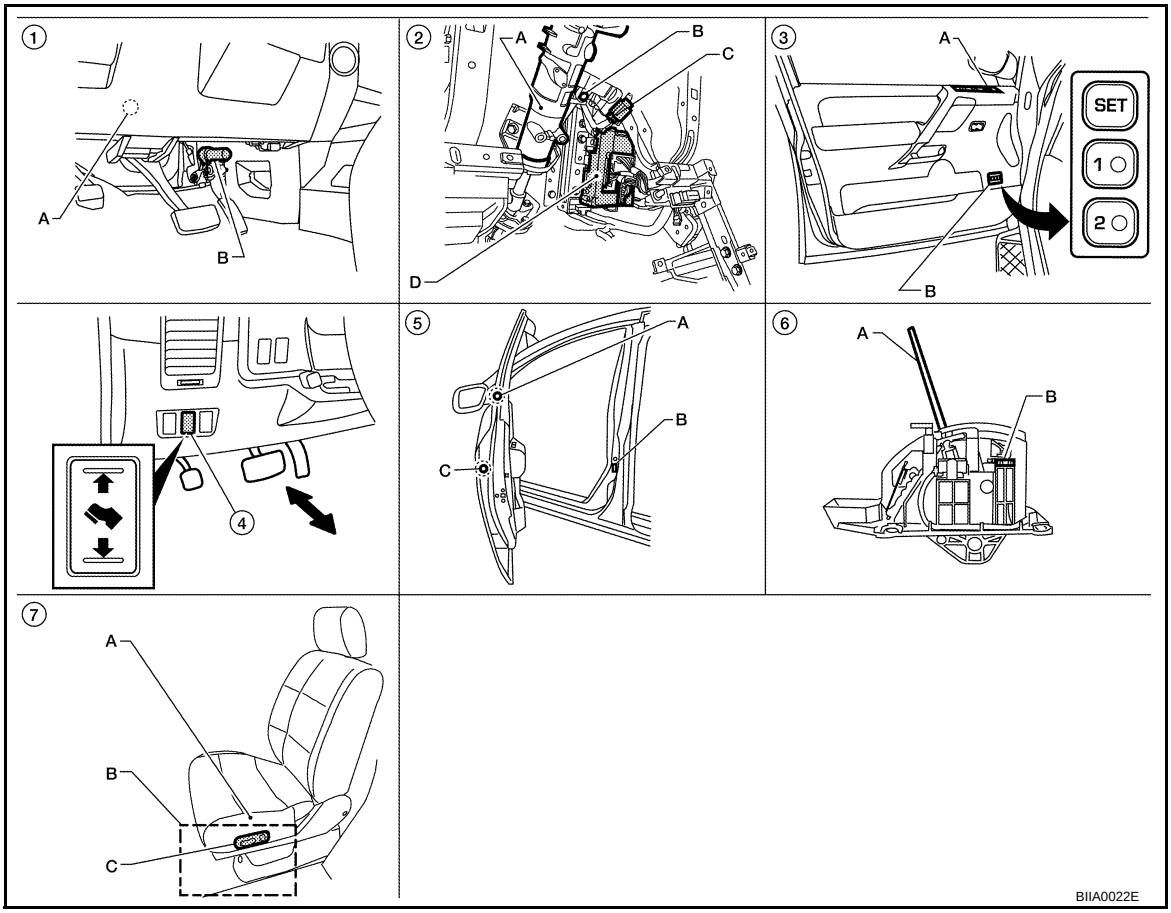
Item	Request status
Seat	The vehicle is not moved after performing the exit assist function.
Switch inputs • Power seat switch • Pedal adjusting switch • Door mirror control switch • Set switch • Memory switch	OFF (Not operated)
A/T selector lever	P position

DETAIL FLOW

Order	Input	Output	Control unit condition
1	Door switch/Ignition switch	—	Driver seat control unit receives the signals of ignition switch signal and front door switch from BCM via CAN communication.
2	—	Motor (sliding)	Driver seat control unit operates the sliding motor when the operating conditions are satisfied.
	Sensor (sliding)	—	Sensor monitors the operating positions of seat and then stops the operation of motor when seat reaches the recorded address.

ENTRY ASSIST FUNCTION : Component Parts Location

INFOID:0000000001673003



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   B. Pedal adjusting motor E109, E110
2. A. Steering column
   B. A/T device (park position switch) M68 (column shift)
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4. Pedal adjusting switch M96
5. A. Door mirrror LH D4, RH D107
   B. Front door switch LH B8
   C. Front door lock assembly LH (key cylinder switch) D14
6. A. A/T selector lever
   B. A/T device (park position switch) M203 (floor shift)
7. A. Sliding motor LH B204 (driver seat view), reclining motor LH B205, lifting motor (front) B206, lifting motor (rear) B207
   B. Driver seat control unit B202, B203
   C. Power seat switch LH B208

ENTRY ASSIST FUNCTION : Component Description

INFOID:0000000001673004

CONTROL UNITS

Item	Function
Driver seat control unit	According to the ignition signal and front door switch LH signal from BCM, • Operates the seat sliding motor for a constant amount.
BCM	Recognizes the following status and transmits it to the driver seat control unit via CAN communication. • Front door LH: OPEN/CLOSE • Ignition switch position: ACC/ON

INPUT PARTS

Switches

Item	Function
Front door switch LH	Detect front door LH open/close status.

Sensors

Item	Function
Sliding sensor	Detect the front/rear position of seat.

OUTPUT PARTS

Item	Function
Sliding motor	Slide the seat forward/backward.

DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

Diagnosis Description

INFOID:0000000001673005

The auto drive positioner system can be checked and diagnosed for component operation with CONSULT-III.

DIAGNOSTIC MODE

Diagnostic mode [AUTO DRIVE POS.]	Description
WORK SUPPORT	Changes the setting of each function.
SELF-DIAG RESULTS	Performs self-diagnosis for the auto drive positioner system and displays the results.
DATA MONITOR	Displays input signals transmitted from various switches and sensors to driver seat control unit in real time.
CAN DIAG SUPPORT MNTR	The result of transmit/receive diagnosis of CAN communication can be read.
ACTIVE TEST	Drive each output device.
ECU PART NUMBER	Displays part numbers of driver seat control unit parts.

CONSULT-III Function

INFOID:0000000001673006

SELF-DIAGNOSIS RESULTS

Refer to ADP-115, "DTC Index".

DATA MONITOR

Monitor Item	Unit	Main Signals	Selection From Menu	Contents
SET SW	“ON/OFF”	×	×	ON/OFF status judged from the setting switch signal.
MEMORY SW1	“ON/OFF”	×	×	ON/OFF status judged from the seat memory switch 1 signal.
MEMORY SW2	“ON/OFF”	×	×	ON/OFF status judged from the seat memory switch 2 signal.
SLIDE SW–FR	“ON/OFF”	×	×	ON/OFF status judged from the sliding switch (forward) signal.
SLIDE SW–RR	“ON/OFF”	×	×	ON/OFF status judged from the sliding switch (backward) signal.
RECLN SW–FR	“ON/OFF”	×	×	ON/OFF status judged from the reclining switch (forward) signal.
RECLN SW–RR	“ON/OFF”	×	×	ON/OFF status judged from the reclining switch (backward) signal.
LIFT FR SW–UP	“ON/OFF”	×	×	ON/OFF status judged from the lifting switch front (up) signal.
LIFT FR SW–DN	“ON/OFF”	×	×	ON/OFF status judged from the lifting switch front (down) signal.
LIFT RR SW–UP	“ON/OFF”	×	×	ON/OFF status judged from the lifting switch rear (up) signal.
LIFT RR SW–DN	“ON/OFF”	×	×	ON/OFF status judged from the lifting switch rear (down) signal.
MIR CON SW–UP	“ON/OFF”	×	×	ON/OFF status judged from the mirror switch (up) signal.
MIR CON SW–DN	“ON/OFF”	×	×	ON/OFF status judged from the mirror switch (down) signal.
MIR CON SW–RH	“ON/OFF”	×	×	ON/OFF status judged from the door mirror remote control switch (passenger side) signal.
MIR CON SW–LH	“ON/OFF”	×	×	ON/OFF status judged from the door mirror remote control switch (driver side) signal.

Monitor Item	Unit	Main Signals	Selection From Menu	Contents
MIR CHNG SW–R	“ON/OFF”	×	×	ON/OFF status judged from the door mirror remote control switch (switching to right) signal.
MIR CHNG SW–L	“ON/OFF”	×	×	ON/OFF status judged from the door mirror remote control switch (switching to left) signal.
PEDAL SW-FR	“ON/OFF”	×	×	ON/OFF status judged from the pedal adjusting switch (forward) signal.
PEDAL SW-RR	“ON/OFF”	×	×	ON/OFF status judged from the pedal adjusting switch (backward) signal.
DETENT SW	“ON/OFF”	×	×	The selector lever position “OFF (P position) / ON (other than P position)” judged from the detention switch signal.
STARTER SW	“ON/OFF”	×	×	Ignition key switch ON (START, ON) /OFF (ACC, OFF) status judged from the ignition switch signal.
SLIDE PULSE	—	–	×	Value (32768) when battery connections are standard. If it moves backward, the value increases. If it moves forward, the value decreases.
RECLN PULSE	—	–	×	Value (32768) when battery connections are standard. If it moves backward, the value increases. If it moves forward, the value decreases.
LIFT FR PULSE	—	–	×	Value (32768) when battery connections are standard. If it moves DOWN, the value increases. If it moves UP, the value decreases.
LIFT RR PULSE	—	–	×	Value (32768) when battery connections are standard. If it moves DOWN, the value increases. If it moves UP, the value decreases.
MIR/SEN RH U–D	“V”	–	×	Voltage input from door mirror sensor (passenger side) up/down is displayed.
MIR/SEN RH R–L	“V”	–	×	Voltage input from door mirror sensor (passenger side) left/right is displayed.
MIR/SEN LH U–D	“V”	–	×	Voltage input from door mirror sensor (driver side) up/down is displayed.
MIR/SEN LH R–L	“V”	–	×	Voltage input from door mirror sensor (driver side) left/right is displayed.
PEDAL SEN	“V”	–	×	Pedal position (voltage) judged from the pedal adjusting sensor signal is displayed.

ACTIVE TEST

CAUTION:

When driving vehicle, do not perform active test.

Test item	Description
SEAT SLIDE	Activates/deactivates the sliding motor.
SEAT RECLINING	Activates/deactivates the reclining motor.
SEAT LIFTER FR	Activates/deactivates the lifting motor (front).
SEAT LIFTER RR	Activates/deactivates the lifting motor (rear).
ADJ PEDAL MOTOR	Activates/deactivates the pedal adjusting motor.
MIRROR MOTOR RH	Activates/deactivates the mirror motor (passenger side).
MIRROR MOTOR LH	Activates/deactivates the mirror motor (driver side).
MEMORY SW INDCTR	Turns ON/OFF the memory indicator.

WORK SUPPORT

Work item	Content	Item
SEAT SLIDE VOLUME SET	The amount of seat sliding for entry/exit assist can be selected from 3 items.	40 mm
		80 mm
		150 mm
EXIT SEAT SLIDE SETTING	Entry/exit assist (seat) can be selected: ON (operated) – OFF (not operated)	ON
		OFF

COMPONENT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description

INFOID:0000000001673007

Refer to BCS-27, "Description".

DTC Logic

INFOID:0000000001673008

DTC DETECTION LOGIC

DTC	Trouble diagnosis name	DTC detecting condition	Possible cause
U1000	CAN COMM CIRCUIT	• Driver seat control unit cannot communicate to other control units. • Driver seat control unit cannot communicate for more than the specified time.	• Harness or connectors (CAN communication line is open or shorted)

DTC CONFIRMATION PROCEDURE

1. STEP 1

Turn ignition switch ON and wait at least 3 seconds.

>> GO TO 2

2. STEP 2

Check “Self diagnostic result” with CONSULT-III.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-27, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000001673009

Refer to LAN-14, "Trouble Diagnosis Flow Chart".

Special Repair Requirement

INFOID:0000000001673010

Refer to Owner’s Manual.

B2112 SLIDING MOTOR

Description

INFOID:0000000001673011

- The seat sliding motor is installed to the seat cushion frame.
- The seat sliding motor is installed with the driver seat control unit.
- Slides the seat frontward/rearward by changing the rotation direction of sliding motor.

DTC Logic

INFOID:0000000001673012

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2112	SEAT SLIDE	The driver seat control unit detects the output of sliding motor output terminal for 0.1 second or more even if the sliding switch is not input.	• Driver seat control unit

DTC CONFIRMATION PROCEDURE

1. STEP 1

Turn ignition switch ON.

>> GO TO 2

2. STEP 2

Check “Self diagnostic result” with CONSULT-III.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-28, "Diagnosis Procedure".
NO >> INSPECTION END

NOTE:
First perform diagnosis for B2126 if B2126 is detected. Refer to ADP-36, "Diagnosis Procedure (Floor Shift)".

Diagnosis Procedure

INFOID:0000000001673013

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check “Self diagnostic result” with CONSULT-III.
3. Erase the DTC.
4. Perform DTC confirmation procedure. Refer to ADP-28, "DTC Logic".

Is the DTC displayed again?

YES >> GO TO 2
NO >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

2. CHECK COMPONENTS

Refer to ADP-68, "Component Function Check" and ADP-82, "Component Function Check".

>> INSPECTION END

B2113 RECLINING MOTOR

Description

INFOID:0000000001673014

- The seat reclining motor is installed to the seatback frame.
- The seat reclining motor is activated with the driver seat control unit.
- Tilts the seatback frontward/rearward by changing the rotation direction of reclining motor.

DTC Logic

INFOID:0000000001673015

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2113	SEAT RECLINING	The driver seat control unit detects the output of reclining motor output terminal for 0.1 second or more even if the reclining switch is not input.	• Driver seat control unit

DTC CONFIRMATION PROCEDURE

1. STEP 1

Turn ignition switch ON.

>> GO TO 2

2. STEP 2

Check “Self diagnostic result” with CONSULT-III.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-29, "Diagnosis Procedure".
NO >> INSPECTION END

NOTE:
First perform diagnosis for B2126 if B2126 is detected. Refer to ADP-36, "Diagnosis Procedure (Floor Shift)".

Diagnosis Procedure

INFOID:0000000001673016

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check “Self diagnostic result” with CONSULT-III.
3. Erase the DTC.
4. Perform DTC confirmation procedure. Refer to ADP-29, "DTC Logic".

Is the DTC displayed again?

YES >> GO TO 2
NO >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

2. CHECK COMPONENTS

Refer to ADP-70, "Component Function Check" and ADP-84, "Component Function Check".

>> INSPECTION END

B2114 SEAT LIFTER FR

Description

INFOID:0000000001673017

- The lifting motor (front) is installed to the seat cushion frame.
- The lifting motor (front) is activated with the driver seat control unit.
- Tilts the seat front up/down by changing the rotation direction of lifting motor (front).

DTC Logic

INFOID:0000000001673018

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2114	SEAT LIFTER FR	The driver seat control unit detects the output of lifting motor (front) output terminal for 0.1 second or more even if the lifting switch is not input.	• Driver seat control unit

DTC CONFIRMATION PROCEDURE

1. STEP 1

Turn ignition switch ON.

>> GO TO 2

2. STEP 2

Check “Self diagnostic result” with CONSULT-III.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-30, "Diagnosis Procedure".
NO >> INSPECTION END

NOTE:
First perform diagnosis for B2126 if B2126 is detected. Refer to ADP-36, "Diagnosis Procedure (Floor Shift)".

Diagnosis Procedure

INFOID:0000000001673019

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check “Self diagnostic result” with CONSULT-III.
3. Erase the DTC.
4. Perform DTC confirmation procedure. Refer to ADP-30, "DTC Logic".

Is the DTC displayed again?

YES >> GO TO 2
NO >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

2. CHECK COMPONENTS

Refer to ADP-72, "Component Function Check" and ADP-86, "Component Function Check".

>> INSPECTION END

B2115 SEAT LIFTER RR

Description

INFOID:0000000001673020

- The lifting motor (rear) is installed to the seat cushion frame.
- The lifting motor (rear) is activated with the driver seat control unit.
- Tilts the seat rear up/down by changing the rotation direction of lifting motor (rear).

DTC Logic

INFOID:0000000001673021

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2115	SEAT LIFTER RR	The driver seat control unit detects the output of lifting motor (rear) output terminal for 0.1 second or more even if the lifting switch is not input.	• Driver seat control unit

DTC CONFIRMATION PROCEDURE

1. STEP 1

Turn ignition switch ON.

>> GO TO 2

2. STEP 2

Check “Self diagnostic result” with CONSULT-III.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-31, "Diagnosis Procedure".
NO >> INSPECTION END

NOTE:
First perform diagnosis for B2126 if B2126 is detected. Refer to ADP-36, "Diagnosis Procedure (Floor Shift)".

Diagnosis Procedure

INFOID:0000000001673022

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check “Self diagnostic result” with CONSULT-III.
3. Erase the DTC.
4. Perform DTC confirmation procedure. Refer to ADP-31, "DTC Logic".

Is the DTC displayed again?

YES >> GO TO 2
NO >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

2. CHECK COMPONENTS

Refer to ADP-74, "Component Function Check" and ADP-88, "Component Function Check".

>> INSPECTION END

B2117 ADJ PEDAL MOTOR

Description

INFOID:0000000001673023

- The pedal adjusting sensor is installed to pedal assembly.
- The resistance of pedal adjusting sensor is changed according to the forward/backward position of pedal assembly.
- The terminal voltage of automatic drive positioner control unit will be changed according to a change of pedal adjusting sensor resistance. Automatic drive positioner control unit calculates the pedal position from the voltage.

DTC Logic

INFOID:0000000001673024

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2117	ADJ PEDAL SENSOR	When any manual or automatic operations are not performed, if motor operation is detected for 0.1 second or more, status is judged "Output error".	• Harness and connectors (pedal adjusting sensor circuit is opened/shorted, pedal adjusting sensor power supply circuit is opened/shorted.) • Pedal adjusting sensor

DTC CONFIRMATION PROCEDURE

1. STEP 1

Turn ignition switch ON.

>> GO TO 2

2. STEP 2

Check “Self diagnostic result” with CONSULT-III.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-32, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000001673025

1. CHECK PEDAL ADJUSTING MECHANISM

Check the following.
- Operation malfunction caused by pedal adjusting mechanism deformation or pinched harness or other foreign materials
- Operation malfunction and interference with other parts by poor installation

Is the inspection result normal

YES >> GO TO 2
NO >> Repair or replace the malfunctioning part and check again.

2. CHECK FUNCTION

1. Turn ignition switch ON.
2. Check “ADJ PEDAL MOTOR” in "Active test" mode with CONSULT-III.

Test item	Description
ADJ PEDAL MOTOR	The pedal adjusting motor is activated by receiving the drive signal.

Is the inspection result normal?

YES >> Pedal adjusting motor circuit is OK.
NO >> GO TO 3

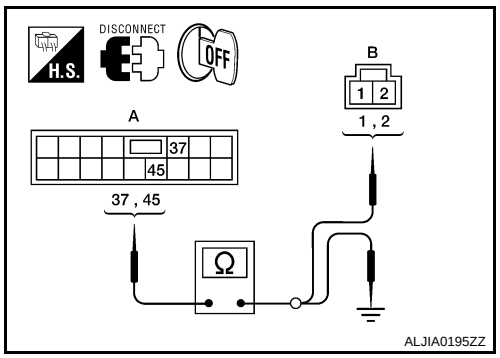
3. CHECK PEDAL ADJUSTING MOTOR CIRCUIT HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect automatic drive positioner control unit and pedal adjusting motor.
3. Check continuity between automatic drive positioner control unit connector M34 (A) terminals 37, 45 and pedal adjusting motor connector E109 (B) terminals 1, 2.

37 - 1 : Continuity should exist.
45 - 2 : Continuity should exist.

4. Check continuity between automatic drive positioner control unit connector M34 (A) terminals 37, 45 and ground.

37 - Ground : Continuity should not exist.
45 - Ground : Continuity should not exist.



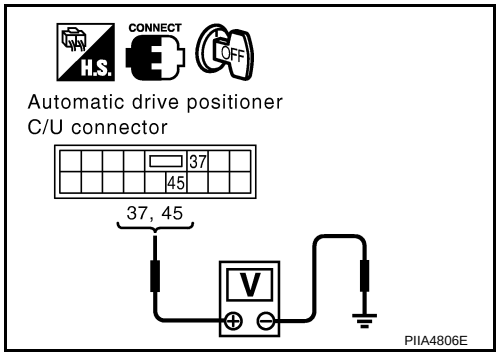
Is the inspection result normal?

YES >> GO TO 4
NO >> Repair or replace harness.

4. CHECK AUTOMATIC DRIVE POSITIONER CONTROL UNIT OUTPUT SIGNAL

1. Connect the automatic drive positioner control unit and pedal adjusting motor.
2. Check voltage between automatic drive positioner control unit connector and ground.

Connector	Terminals (+)	Terminals (-)	Condition	Voltage (V) (Approx.)
M34	37	Ground	Pedal adjusting switch ON (FORWARD operation)	Battery voltage
			Other than above	0
	45		Pedal adjusting switch ON (BACKWARD operation)	Battery voltage
			Other than above	0



Is the inspection result normal?

YES >> Replace pedal adjusting motor.
NO >> GO TO 5

5. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit.
NO >> Repair or replace the malfunctioning part.

B2120 ADJ PEDAL SENSOR

Description

INFOID:0000000001673026

- The pedal adjusting sensor is installed in the pedal assembly.
- The resistance of pedal adjusting sensor is changed according to the forward/backward position of pedal assembly.
- The terminal voltage of automatic drive positioner control unit will be changed according to a change of pedal adjusting sensor resistance. Automatic drive positioner control unit calculates the pedal assembly position from the voltage.

DTC Logic

INFOID:0000000001673027

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2120	ADJ PEDAL SENSOR	The input voltage of pedal adjusting sensor is 0.5V or less or 4.5V or higher, for 0.5 seconds or more.	• Harness and connectors (Pedal adjusting sensor circuit is opened/shorted, pedal adjusting sensor power supply circuit is opened/shorted.) • Pedal adjusting sensor

DTC CONFIRMATION PROCEDURE

1. STEP 1

Turn ignition switch ON.

>> GO TO 2

2. STEP 2

Check “Self diagnostic result” with CONSULT-III.

Is the DTC is detected?

YES >> Perform diagnosis procedure. Refer to ADP-34, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000001673028

1. CHECK PEDAL ADJUSTING SENSOR SIGNAL

1. Turn ignition switch ON.
2. Select “PEDAL SEN” in “Data monitor” mode with CONSULT-III.
3. Check the pedal adjusting sensor signal under the following condition.

Monitor item	Condition		Value
PEDAL SEN	Pedal position	Forward	0.5V
		Backward	4.5V

Is the value normal?

YES >> Pedal adjusting circuit is OK.
NO >> GO TO 2

2. CHECK PEDAL ADJUSTING SENSOR CIRCUIT HARNESS CONTINUITY

1. Disconnect automatic drive positioner control unit and pedal adjusting sensor.
2. Check continuity between automatic drive positioner connector M33, M34 terminals 8, 33, 41 and pedal adjusting sensor connector E110 terminals 3, 4, 5.

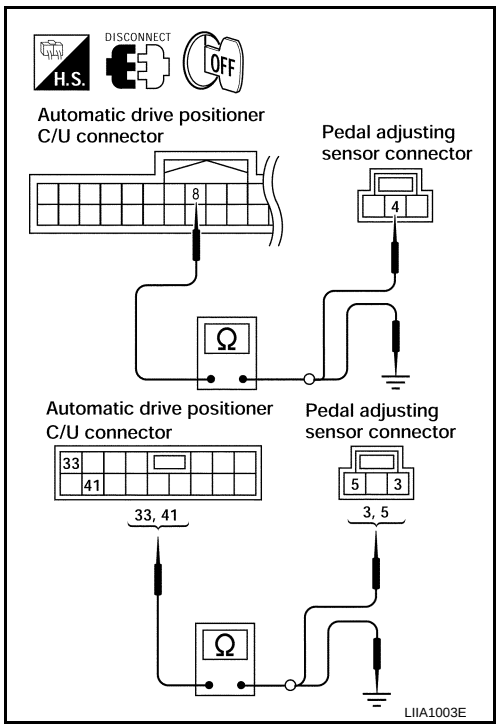
8 - 4	**: Continuity should exist.**
33 - 3	**: Continuity should exist.**
41 - 5	**: Continuity should exist.**

3. Check continuity between automatic drive positioner control unit connector M33, M34 terminals 8, 33, 41 and ground.

8 - Ground	**: Continuity should not exist.**
33 - Ground	**: Continuity should not exist.**
41 - Ground	**: Continuity should not exist.**

Is the inspection result normal?

YES >> Replace pedal adjusting motor.
NO >> Repair or replace harness.



B2126 DETENT SW

Description

INFOID:0000000001673029

- Park position switch is installed on A/T device. It is turned OFF when the A/T selector lever is in P position.
- The driver seat control unit judges that the A/T selector lever is in P position if continuity does not exist in this circuit.

DTC Logic

INFOID:0000000001673030

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2126	DETENT SW	A/T selector lever is in P position and the vehicle speed of 7±4km/h is detected.	• Harness and connectors (Park position switch circuit is opened/shorted.) • Park position switch • Combination meter (CAN communication)

DTC CONFIRMATION PROCEDURE

1. STEP 1

Drive the vehicle at 7±4km/h or more.

>> GO TO 2

2. STEP 2

Check “Self diagnostic result” with CONSULT-III.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-36, "Diagnosis Procedure (Floor Shift)" or ADP-37, "Diagnosis Procedure (Column Shift)".

NO >> INSPECTION END

Diagnosis Procedure (Floor Shift)

INFOID:0000000001673031

1. CHECK DTC

Check “Self diagnostic result” for BCM with CONSULT-lll.

Are other DTCs detected?

YES >> Check the DTC.

NO >> GO TO 2

2. CHECK DETENTION SWITCH SIGNAL

1. Turn ignition switch ON.
2. Select “DETENT SW” in “Data Monitor” mode with CONSULT-lll.
3. Check detention switch signal under the following condition.

Monitor item	Condition		Status
DETENT SW	A/T selector lever	P position	OFF
		Other than above	ON

Is the status normal?

YES >> A/T device (park position switch) circuit is OK.

NO >> GO TO 3

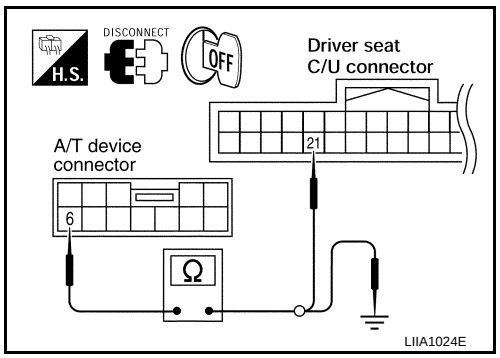
3. CHECK A/T DEVICE (PARK POSITION SWITCH) HARNESS

1. Turn ignition switch OFF.
2. Disconnect A/T device and driver seat control unit.
3. Check continuity between A/T device connector M203 terminal 6 and driver seat control unit connector B202 terminal 21.

6 - 21 : Continuity should exist.

4. Check continuity between A/T device connector M203 terminal 6 and ground.

6 - Ground : Continuity should not exist.



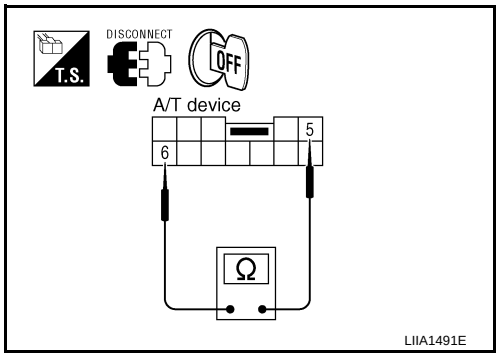
Is the inspection result normal?

YES >> GO TO 4
NO >> Repair or replace harness.

4. CHECK PARK POSITION SWITCH

Check continuity between A/T device (park position switch) terminals as follows.

Terminals		Condition	Continuity
5	6	P position	Yes
		Other than P position	No



Is the inspection result normal?

YES >> GO TO 5
NO >> Replace A/T device. Refer to TM-215, "Control Device Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit.
NO >> Repair or replace the malfunctioning part.

Diagnosis Procedure (Column Shift)

INFOID:0000000001674186

1. CHECK DTC

Check “Self diagnostic result” for BCM with CONSULT-lll.

Are other DTCs detected?

YES >> Check the DTC.
NO >> GO TO 2

2. CHECK DETENTION SWITCH SIGNAL

1. Turn ignition switch ON.
2. Select “DETENT SW” in “Data Monitor” mode with CONSULT-lll.
3. Check detention switch signal under the following condition.

Monitor item	Condition		Status
DETENT SW	A/T selector lever	P position	OFF
		Other than above	ON

Is the status normal?

YES >> A/T device (park position switch) circuit is OK.
NO >> GO TO 3

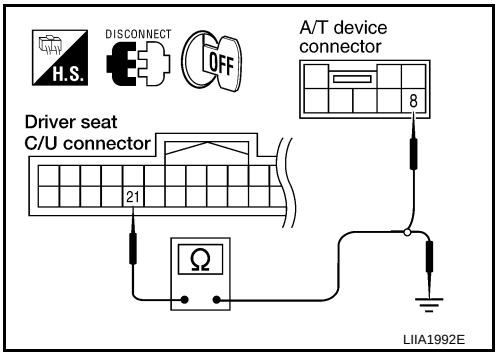
3. CHECK A/T DEVICE (PARK POSITION SWITCH) HARNESS

1. Turn ignition switch OFF.
2. Disconnect A/T device and driver seat control unit.
3. Check continuity between A/T device connector M68 terminal 8 and driver seat control unit connector B202 terminal 21.

8 - 21 : Continuity should exist.

4. Check continuity between driver seat control unit connector B202 terminal 21 and ground.

21 - Ground : Continuity should not exist.



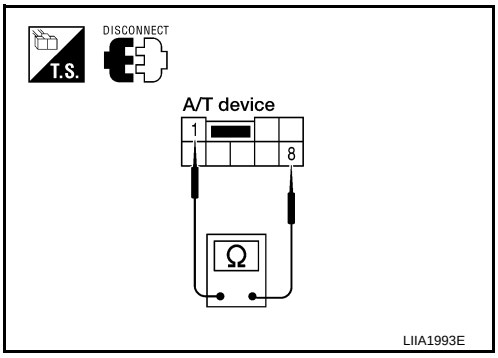
Is the inspection result normal?

YES >> GO TO 4
NO >> Repair or replace harness.

4. CHECK PARK POSITION SWITCH

Check continuity between A/T device (park position switch) terminals as follows.

Terminals		Condition	Continuity
1	8	P position	Yes
		Other than P position	No



Is the inspection result normal?

YES >> GO TO 5
NO >> Replace A/T device. Refer to TM-215, "Control Device Removal and Installation".

5. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit.
NO >> Repair or replace the malfunctioning part.

B2128 UART COMMUNICATION LINE

Description

INFOID:0000000001673032

Driver seat control unit performs UART communication with the automatic drive positioner control unit using 2 communication lines, TX and RX line. Driver seat control unit receives the operation signals of pedal adjusting switch, door mirror remote control switch, set switch and memory switch and the position signals of adjustable pedal sensor and door mirror sensor from the automatic drive positioner control unit and transmits the operation request signal.

DTC Logic

INFOID:0000000001673033

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2128	UART COMM	The communication between driver seat control unit and automatic drive positioner control unit is interrupted for a period of time.	• UART communication line (UART communication line is open or shorted) • Driver seat control unit • Automatic drive positioner control unit

DTC CONFIRMATION PROCEDURE

1. STEP 1

Turn ignition switch ON.

>> GO TO 2

2. STEP 2

Operate pedal adjusting switch for more than 2 seconds.

>> GO TO 3

3. PROCEDURE 3

Check “Self diagnostic result” with CONSULT-III.

Is the DTC detected?

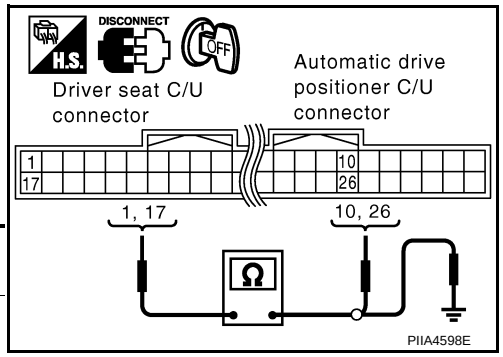
YES >> Perform diagnosis procedure. Refer to ADP-39, "Diagnosis Procedure".
NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000001673034

1. CHECK UART COMMUNICATION LINE CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect driver seat control unit and automatic drive positioner control unit.
3. Check continuity between driver seat control unit harness connector and automatic drive positioner control unit harness connector.



Driver seat control unit connector	Terminal	Automatic drive positioner control unit connector	Terminal	Continuity
B202	1	M33	10	Yes
	17		26	

4. Check continuity between driver seat control unit harness connector and ground.

Driver seat control unit connector	Terminal	Ground	Continuity
B202	1		No
	17		

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".
NO >> Repair or replace harness.

POWER SUPPLY AND GROUND CIRCUIT

BCM

BCM : Diagnosis Procedure

INFOID:0000000001673035

Refer to BCS-29, "Diagnosis Procedure".

BCM : Special Repair Requirement

INFOID:0000000001673036

1. REQUIRED WORK WHEN REPLACING BCM

Initialize control unit. Refer to CONSULT-III Operation Manual.

>> Work end.

DRIVER SEAT CONTROL UNIT

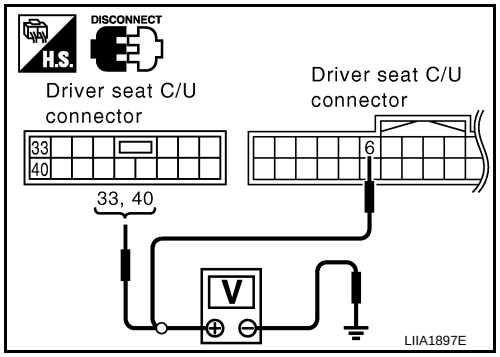
DRIVER SEAT CONTROL UNIT : Diagnosis Procedure

INFOID:0000000001673037

NOTE:
Do not disconnect the battery negative terminal and the driver seat control unit connector until DTC is confirmed with CONSULT-III.

1. CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Check voltage between driver seat control unit harness connector and ground.



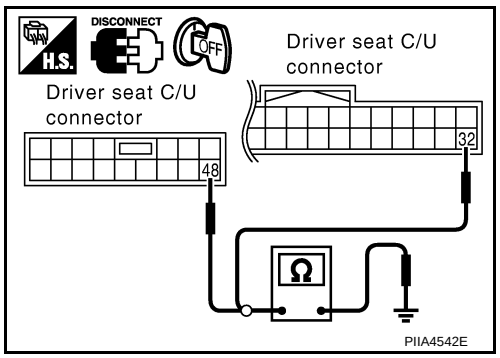
Terminals			Power source	Condition	Voltage (V) (Approx.)
(+)		(–)			
Driver seat control unit connector	Terminal				
B202	6	Ground	START power supply	Ignition switch START	Battery voltage
B203	33		Battery power supply	Ignition switch OFF	
	40				

Is the inspection result normal?

YES >> GO TO 2
NO >> Check the following.
- Repair or replace harness between driver seat control unit and fuse block (J/B).
- Circuit breaker.

2. CHECK GROUND CIRCUIT

Check continuity between the driver seat control unit harness connector and ground.



Driver seat control unit connector	Terminal	Ground	Continuity
B202	32		Yes
B203	48		

Is the inspection result normal?

YES >> Driver seat control unit power supply and ground circuit are OK.
NO >> Repair or replace harness.

DRIVER SEAT CONTROL UNIT : Special Repair Requirement

INFOID:0000000001673038

1.PERFORM ADDITIONAL SERVICE

Perform additional service when removing battery negative terminal.

>> Refer to Owner's Manual.

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

AUTOMATIC DRIVE POSITIONER CONTROL UNIT : Diagnosis Procedure

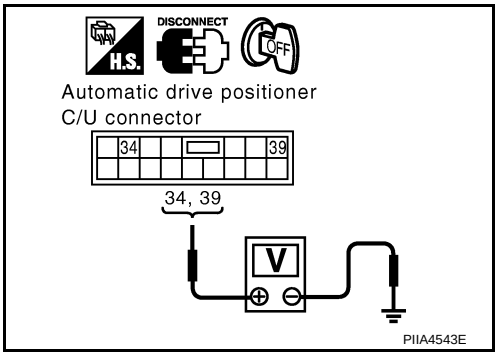
INFOID:0000000001673039

NOTE:
Do not disconnect the battery negative terminal and the driver seat control unit connector until DTC is confirmed with CONSULT-III.

1.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Check voltage between automatic drive positioner control unit harness connector and ground.

Terminals			Voltage (V) (Approx.)
(+)		(–)	
Automatic drive positioner control unit connector	Terminal		
M33	34	Ground	Battery voltage
	39		



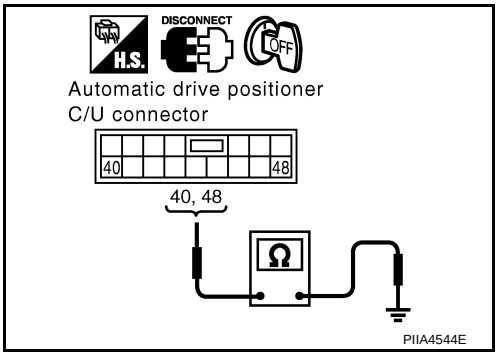
Is the inspection result normal?

YES >> GO TO 2
NO >> Repair or replace harness.

2.CHECK GROUND CIRCUIT

Check continuity between the automatic drive positioner control unit harness connector and ground.

Automatic drive positioner control unit connector	Terminal	Ground	Continuity
M33	40		Yes
	48		



Is the inspection result normal?

YES >> Automatic drive positioner control unit power supply and ground circuit are OK.
NO >> Repair or replace harness.

AUTOMATIC DRIVE POSITIONER CONTROL UNIT : Special Repair Requirement

INFOID:0000000001673040

1.PERFORM ADDITIONAL SERVICE

Perform additional service when removing battery negative terminal.

>> Refer to Owner's Manual.

SLIDING SWITCH

Description

INFOID:0000000001673041

Sliding switch is equipped to the power seat switch LH on the seat cushion side surface. The operation signal is input to the driver seat control unit when the sliding switch is operated.

Component Function Check

INFOID:0000000001673042

1. CHECK FUNCTION

1. Select “SLIDE SW-FR”, “SLIDE SW-RR” in “Data monitor” mode with CONSULT-III.
2. Check sliding switch signal under the following conditions.

Monitor item	Condition		Status
SLIDE SW-FR	Sliding switch (forward)	Operate	ON
		Release	OFF
SLIDE SW-RR	Sliding switch (backward)	Operate	ON
		Release	OFF

Is the indication normal?

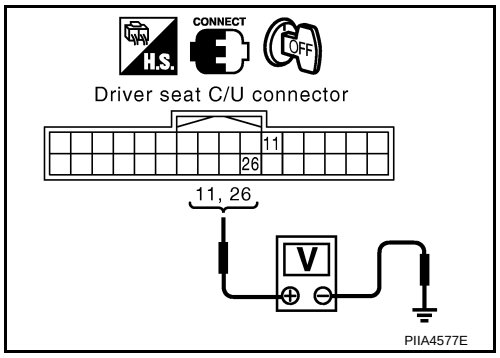
YES >> INSPECTION END
NO >> Perform diagnosis procedure. Refer to ADP-43, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001673043

1. CHECK SLIDING SWITCH SIGNAL

1. Turn ignition switch ON.
2. Check voltage between driver seat control unit harness connector and ground.



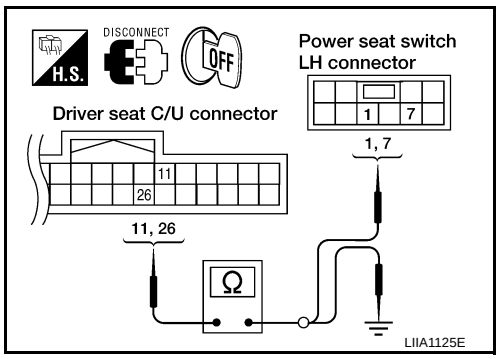
Driver seat control unit connector	Terminals (+)	Terminals (–)	Condition		Voltage (V) (Approx.)
B202	11	Ground	Sliding switch	Operate (backward)	0
				Release	Battery voltage
	26			Operate (forward)	0
				Release	Battery voltage

Is the inspection result normal?

YES >> GO TO 5
NO >> GO TO 2

2. CHECK SLIDING SWITCH CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect driver seat control unit and power seat switch LH.
3. Check continuity between driver seat control unit harness connector and power seat switch LH harness connector.



Driver seat control unit connector	Terminal	Power seat switch LH connector	Terminal	Continuity
B202	11	B208	7	Yes
	26		1	

4. Check continuity between driver seat control unit harness connector and ground.

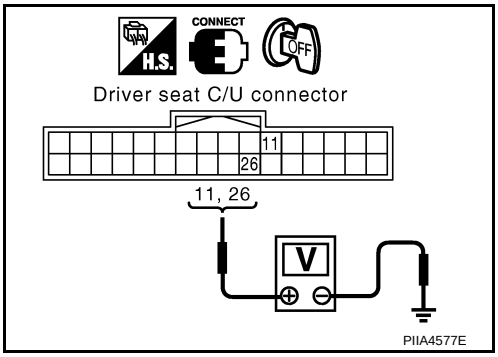
Driver seat control unit connector	Terminal	Ground	Continuity
B202	11		No
	26		

Is the inspection result normal?

YES >> GO TO 3
NO >> Repair or replace harness.

3. CHECK DRIVER SEAT CONTROL UNIT OUTPUT

1. Connect the driver seat control unit.
2. Turn ignition switch ON.
3. Check voltage between driver seat control unit harness connector and ground.



Driver seat control unit connector	Terminals		Voltage (V) (Approx.)
	(+)	(–)	
B202	11	Ground	Battery voltage
	26		

Is the inspection result normal?

YES >> GO TO 4
NO >> Replace driver seat control unit.

4. CHECK SLIDING SWITCH

Refer to ADP-44, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5
NO >> Replace power seat switch LH.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

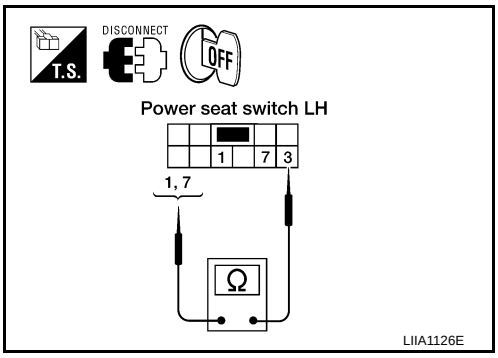
YES >> Replace driver seat control unit.
NO >> Repair or replace malfunctioning part.

Component Inspection

INFOID:0000000001673044

1. CHECK SLIDING SWITCH

1. Turn ignition switch OFF.
2. Disconnect power seat switch LH.
3. Check continuity between power seat switch LH terminals.



Terminal		Condition		Continuity
Power seat switch LH				
3	7	Sliding switch (backward)	Operate	Yes
			Release	No
	1	Sliding switch (forward)	Operate	Yes
			Release	No

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace power seat switch LH.

RECLINING SWITCH

Description

INFOID:0000000001673045

Reclining switch is equipped to the power seat switch LH on the seat cushion side surface. The operation signal is input to the driver seat control unit when the reclining switch is operated.

Component Function Check

INFOID:0000000001673046

1.CHECK FUNCTION

1. Select “RECLN SW-FR”, “RECLN SW-RR” in “Data monitor” mode with CONSULT-III.
2. Check reclining switch signal under the following conditions.

Monitor item	Condition		Status
RECLN SW-FR	Reclining switch (forward)	Operate	ON
		Release	OFF
RECLN SW-RR	Reclining switch (backward)	Operate	ON
		Release	OFF

Is the indication normal?

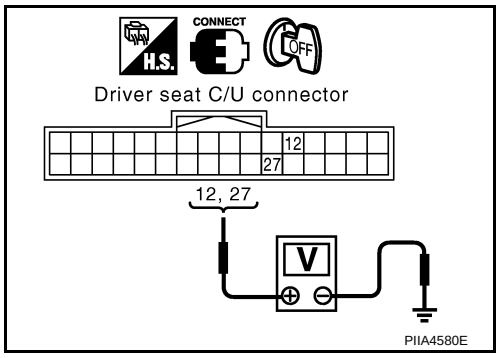
YES >> INSPECTION END
NO >> Perform diagnosis procedure. Refer to ADP-45, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001673047

1. CHECK RECLINING SWITCH SIGNAL

1. Turn ignition switch ON.
2. Check voltage between driver seat control unit harness connector and ground.



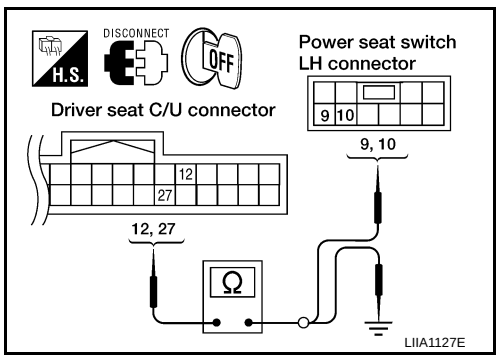
Driver seat control unit connector	Terminals (+)	Terminals (–)	Condition		Voltage (V) (Approx.)
B202	12	Ground	Reclining switch	Operate (forward)	0
				Release	Battery voltage
	27			Operate (backward)	0
				Release	Battery voltage

Is the inspection result normal?

YES >> GO TO 5
NO >> GO TO 2

2. CHECK RECLINING SWITCH CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect driver seat control unit and power seat switch LH.
3. Check continuity between driver seat control unit harness connector and power seat switch LH harness connector.



Driver seat control unit connector	Terminal	Power seat switch LH connector	Terminal	Continuity
B202	12	B208	9	Yes
	27		10	

4. Check continuity between driver seat control unit harness connector and ground.

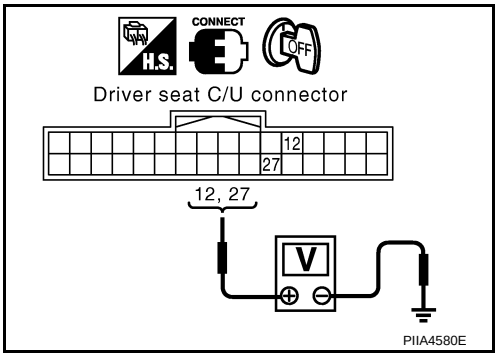
Driver seat control unit connector	Terminal	Ground	Continuity
B202	12		No
	27		

Is the inspection result normal?

YES >> GO TO 3
NO >> Repair or replace harness.

3. CHECK DRIVER SEAT CONTROL UNIT OUTPUT

1. Connect the driver seat control unit connector.
2. Turn ignition switch ON.
3. Check voltage between driver seat control unit harness connector and ground.



Driver seat control unit connector	Terminals		Voltage (V) (Approx.)
	(+)	(–)	
B202	12	Ground	Battery voltage
	27		

Is the inspection result normal?

YES >> GO TO 4
NO >> Replace driver seat control unit.

4. CHECK RECLINING SWITCH

Refer to ADP-46, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5
NO >> Replace power seat switch LH.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

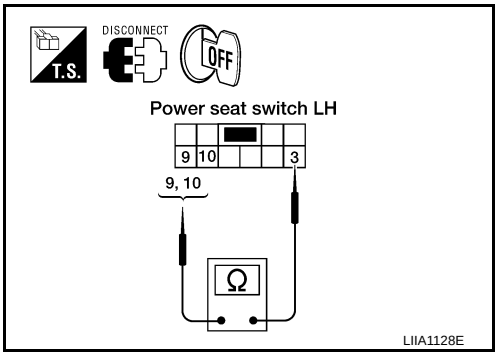
YES >> Replace driver seat control unit.
NO >> Repair or replace the malfunctioning part.

Component Inspection

INFOID:0000000001673048

1. CHECK RECLINING SWITCH

1. Turn ignition switch OFF.
2. Disconnect power seat switch LH.
3. Check continuity between power seat switch LH terminals.



Terminals		Condition		Continuity
Power seat switch LH				
3	9	Reclining switch (backward)	Operate	Yes
			Release	No
	10	Reclining switch (forward)	Operate	Yes
			Release	No

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace power seat switch LH.

LIFTING SWITCH (FRONT)

Description

INFOID:0000000001673049

Lifting switch (front) is equipped to the power seat switch LH on the seat cushion side surface. The operation signal is input to the driver seat control unit when the lifting switch (front) is operated.

Component Function Check

INFOID:0000000001673050

1. CHECK FUNCTION

1. Select “LIFT FR SW-UP”, “LIFT FR SW-DN” in “DATA MONITOR” mode with CONSULT-III.
2. Check lifting switch (front) signal under the following conditions.

Monitor item	Condition		Status
LIFT FR SW-UP	Lifting switch front (up)	Operate	ON
		Release	OFF
LIFT FR SW-DN	Lifting switch front (down)	Operate	ON
		Release	OFF

Is the indication normal?

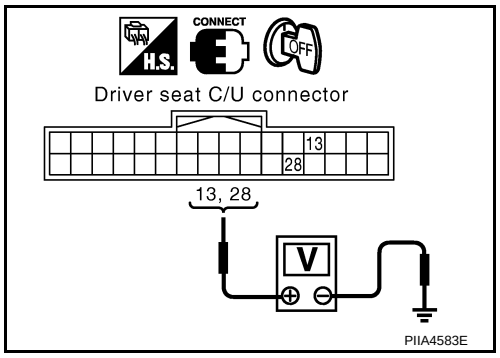
YES >> INSPECTION END
NO >> Perform diagnosis procedure. Refer to ADP-47, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001673051

1. CHECK LIFTING SWITCH SIGNAL

1. Turn ignition switch ON.
2. Check voltage between driver seat control unit harness connector and ground.



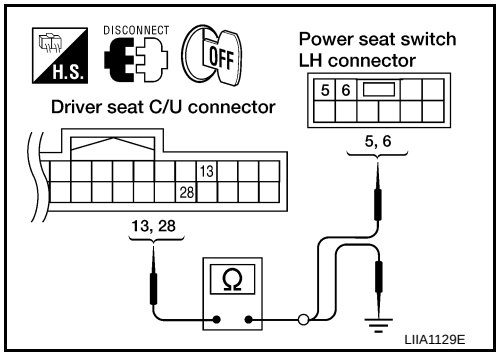
Driver seat control unit connector	Terminals (+)	Terminals (–)	Condition		Voltage (V) (Approx.)
B202	13	Ground	Lifting switch (front)	Operate (down)	0V
				Release	Battery voltage
	28			Operate (up)	0V
				Release	Battery voltage

Is the inspection result normal?

YES >> GO TO 5
NO >> GO TO 2

2. CHECK LIFTING SWITCH (FRONT) CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect driver seat control unit and power seat switch LH.
3. Check continuity between driver seat control unit harness connector and power seat switch LH harness connector.



Driver seat control unit connector	Terminal	Power seat switch LH connector	Terminal	Continuity
B202	13	B208	5	Yes
	28		6	

4. Check continuity between driver seat control unit harness connector and ground.

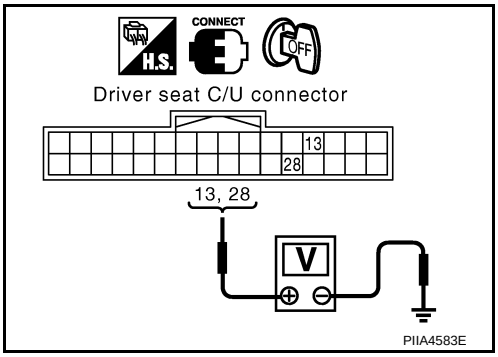
Driver seat control unit connector	Terminal	Ground	Continuity
B202	13		No
	28		

Is the inspection result normal?

YES >> GO TO 3
NO >> Repair or replace harness.

3. CHECK DRIVER SEAT CONTROL UNIT OUTPUT

1. Connect the driver seat control unit.
2. Turn ignition switch ON.
3. Check voltage between driver seat control unit harness connector and ground.



Driver seat control unit connector	Terminals		Voltage (V) (Approx.)
	(+)	(–)	
B202	13	Ground	Battery voltage
	28		

Is the inspection result normal?

YES >> GO TO 4
NO >> Replace driver seat control unit.

4. CHECK LIFTING SWITCH (FRONT)

Refer to ADP-48, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5
NO >> Replace power seat switch LH.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

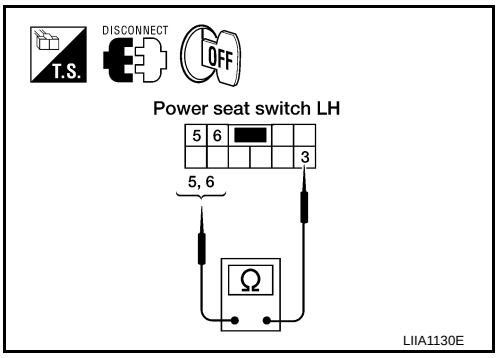
YES >> Replace driver seat control unit.
NO >> Repair or replace the malfunctioning part.

Component Inspection

INFOID:0000000001673052

1. CHECK LIFTING SWITCH (FRONT)

1. Turn ignition switch OFF.
2. Disconnect power seat switch LH.
3. Check continuity between power seat switch LH terminals.



Terminal		Condition		Continuity
Power seat switch LH				
3	5	Lifting switch front (down)	Operate	Yes
			Release	No
	6	Lifting switch front (up)	Operate	Yes
			Release	No

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace power seat switch LH.

LIFTING SWITCH (REAR)

Description

INFOID:0000000001673053

Lifting switch (rear) is equipped to the power seat switch LH on the seat cushion side surface. The operation signal is inputted to the driver seat control unit when the lifting switch (rear) is operated.

Component Function Check

INFOID:0000000001673054

1. CHECK FUNCTION

1. Select “LIFT RR SW-UP”, “LIFT RR SW-DN” in “Data monitor” mode with CONSULT-III.
2. Check lifting switch (rear) signal under the following conditions.

Monitor item	Condition		Status
LIFT RR SW-UP	Lifting switch rear (up)	Operate	ON
		Release	OFF
LIFT RR SW-DN	Lifting switch rear (down)	Operate	ON
		Release	OFF

Is the indication normal?

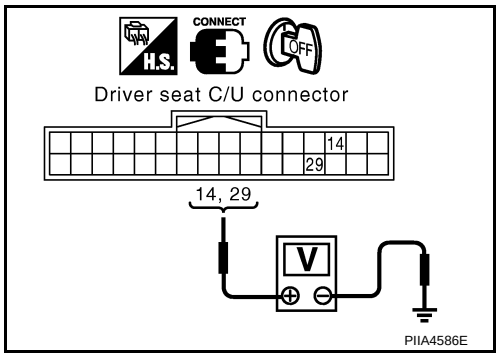
YES >> INSPECTION END
NO >> Perform diagnosis procedure. Refer to ADP-49, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001673055

1. CHECK LIFTING SWITCH (REAR) SIGNAL

1. Turn ignition switch ON.
2. Check voltage between driver seat control unit harness connector and ground.



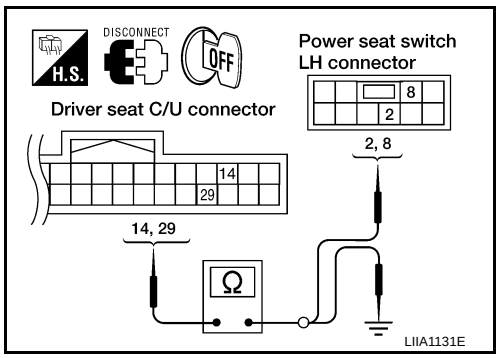
Driver seat control unit connector	Terminals (+)	Terminals (–)	Condition		Voltage (V) (Approx.)
B202	14	Ground	Lifting switch (rear)	Operate (down)	0
				Release	Battery voltage
	29			Operate (up)	0
				Release	Battery voltage

Is the inspection result normal?

YES >> GO TO 5
NO >> GO TO 2

2. CHECK LIFTING SWITCH (REAR) CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect driver seat control unit and power seat switch LH.
3. Check continuity between driver seat control unit harness connector and power seat switch LH harness connector.



Driver seat control unit connector	Terminal	Power sear switch LH connector	Terminal	Continuity
B202	14	B208	8	Yes
	29		2	

4. Check continuity between driver seat control unit harness connector and ground.

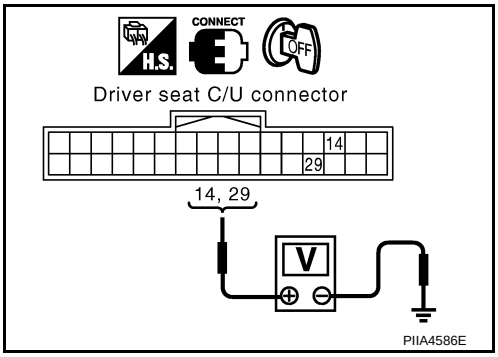
Driver seat control unit connector	Terminal	Ground	Continuity
B202	14		No
	29		

Is the inspection result normal?

YES >> GO TO 3
NO >> Repair or replace harness.

3. CHECK DRIVER SEAT CONTROL UNIT OUTPUT

1. Connect the driver seat control unit.
2. Turn ignition switch ON.
3. Check voltage between driver seat control unit harness connector and ground.



Driver seat control unit connector	Terminals		Voltage (V) (Approx.)
	(+)	(–)	
B202	14	Ground	Battery voltage
	29		

Is the inspection result normal?

YES >> GO TO 4
NO >> Replace driver seat control unit.

4. CHECK LIFTING SWITCH (REAR)

Refer to ADP-50, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5
NO >> Replace power seat switch LH.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

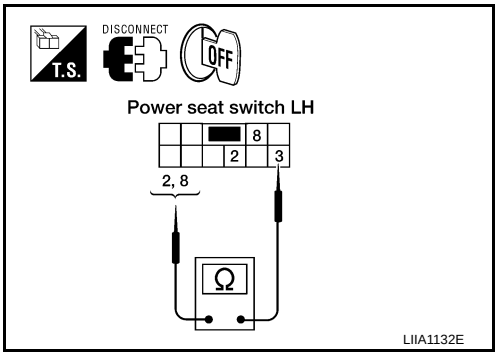
YES >> Replace driver seat control unit.
NO >> Repair or replace the malfunctioning part.

Component Inspection

INFOID:0000000001673056

1. CHECK LIFTING SWITCH (REAR)

1. Turn ignition switch OFF.
2. Disconnect power seat switch LH.
3. Check continuity between power seat switch LH terminals.



Terminal		Condition		Continuity
Power seat switch LH				
3	2	Lifting switch rear (up)	Operate	Yes
			Release	No
	8	Lifting switch rear (down)	Operate	Yes
			Release	No

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace power seat switch LH.

PEDAL ADJUSTING SWITCH

Description

INFOID:0000000001673057

Pedal adjusting switch is on the instrument panel. The operation signal is input to the driver seat control unit when the pedal adjusting switch is operated. The pedal adjusting switch signal is sent to the automatic drive positioner control unit via UART communication.

Component Function Check

INFOID:0000000001673058

1. CHECK FUNCTION

1. Select “PEDAL SW-FR”, “PEDAL SW-RR” in “Data monitor” mode with CONSULT-III.
2. Check pedal adjusting switch signal under the following conditions.

Monitor item	Condition		Status
PEDAL SW-FR	Pedal adjusting switch (forward)	Operate	ON
		Release	OFF
PEDAL SW-RR	Pedal adjusting switch (backward)	Operate	ON
		Release	OFF

Is the indication normal?

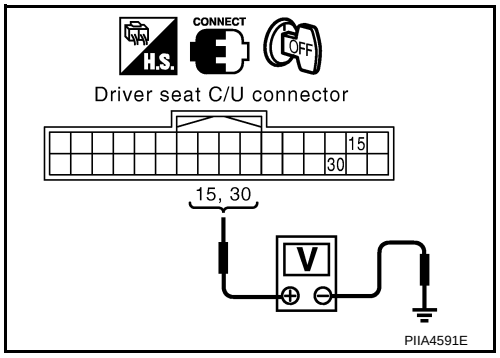
YES >> INSPECTION END
NO >> Perform diagnosis procedure. Refer to ADP-51, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001673059

1. CHECK PEDAL ADJUSTING SWITCH SIGNAL

1. Turn ignition switch ON.
2. Check voltage between driver seat control unit harness connector and ground.



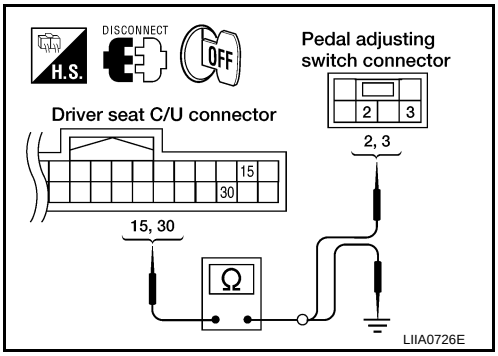
Driver seat control unit connector	Terminals (+)	Terminals (–)	Condition		Voltage (V) (Approx.)
B202	15	Ground	Pedal adjusting switch	Operate (backward)	0
				Release	Battery voltage
	30			Operate (forward)	0
				Release	Battery voltage

Is the inspection result normal?

YES >> GO TO 5
NO >> GO TO 2

2. CHECK PEDAL ADJUSTING SWITCH CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect driver seat control unit and pedal adjusting switch.
3. Check continuity between driver seat control unit harness connector and pedal adjusting switch harness connector.



Driver seat control unit connector	Terminal	Pedal adjusting switch connector	Terminal	Continuity
B202	15	M96	2	Yes
	30		3	

4. Check continuity between driver seat control unit harness connector and ground.

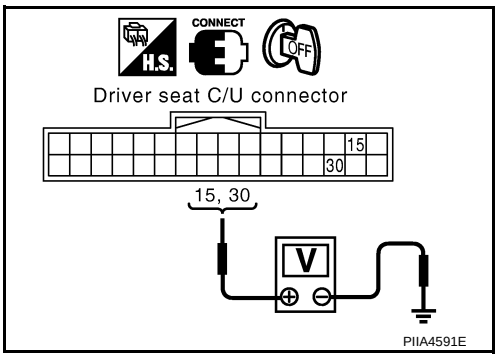
Driver seat control unit connector	Terminal	Ground	Continuity
B202	15		No
	30		

Is the inspection result normal?

YES >> GO TO 3
NO >> Repair or replace harness.

3. CHECK DRIVER SEAT CONTROL UNIT OUTPUT

1. Connect the driver seat control unit.
2. Turn ignition switch ON.
3. Check voltage between driver seat control unit harness connector and ground.



Driver seat control unit connector	Terminals		Voltage (V) (Approx.)
	(+)	(–)	
B202	15	Ground	Battery voltage
	30		

Is the inspection result normal?

YES >> GO TO 4
NO >> Replace driver seat control unit.

4. CHECK PEDAL ADJUSTING SWITCH

Refer to ADP-53, "Component Inspection".

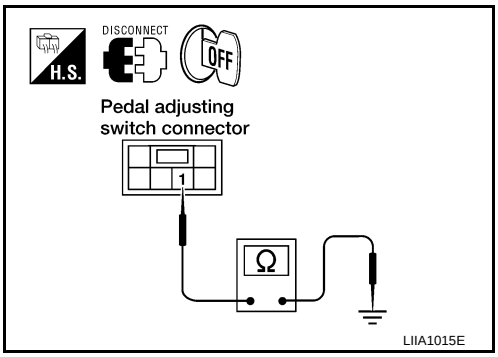
Is the inspection result normal?

YES >> GO TO 5
NO >> Replace pedal adjusting switch.

5. CHECK PEDAL ADJUSTING SWITCH GROUND CIRCUIT

Check continuity between pedal adjusting switch connector M96 terminal 1 and ground.

1 - Ground : Continuity should exist.



Is the inspection result normal?

YES >> GO TO 6
NO >> Replace or replace harness.

6. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

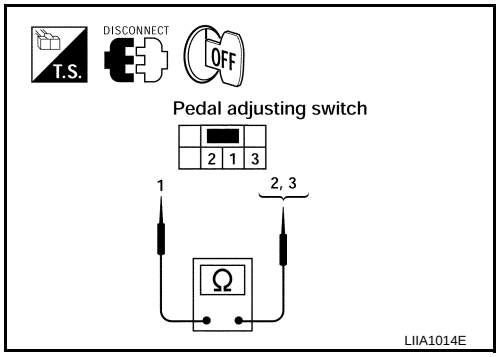
YES >> Replace automatic drive positioner control unit.
NO >> Repair or replace the malfunctioning part.

Component Inspection

INFOID:0000000001673060

1. CHECK PEDAL ADJUSTING SWITCH

1. Turn ignition switch OFF.
2. Disconnect pedal adjusting switch.
3. Check continuity between pedal adjusting switch terminals.



Terminal		Condition		Continuity
Pedal adjusting switch				
1	3	Pedal adjusting switch (forward)	Operate	Yes
			Release	No
	2	Pedal adjusting switch (backward)	Operate	Yes
			Release	No

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace pedal adjusting switch.

SEAT MEMORY SWITCH

Description

INFOID:0000000001673061

Memory switch is equipped on the seat memory switch installed to the front door LH trim. The operation signal is input to the automatic drive positioner control unit when the memory switch is operated.

Component Function Check

INFOID:0000000001673062

1. CHECK FUNCTION

1. Select “MEMORY SW 1”, “MEMORY SW 2”, "SET SW" in “Data monitor” mode with CONSULT-III.
2. Check seat memory switch signal under the following conditions.

Monitor item	Condition		Status
MEMORY SW1	Memory switch 1	Push	ON
		Release	OFF
MEMORY SW2	Memory switch 2	Push	ON
		Release	OFF
SET SW	Set switch	Push	ON
		Release	OFF

Is the indication normal?

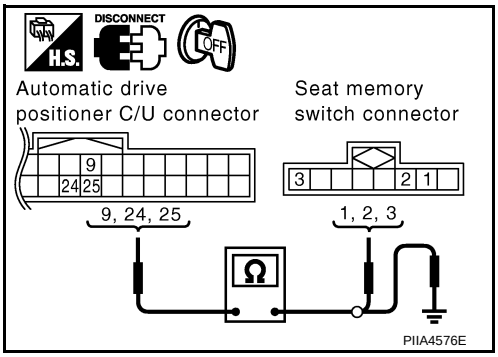
YES >> INSPECTION END
NO >> Perform diagnosis procedure. Refer to ADP-54, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001673063

1. CHECK MEMORY SWITCH CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect automatic drive positioner control unit and seat memory switch.
3. Check continuity between automatic drive positioner control unit harness connector and seat memory switch harness connector.



Automatic drive positioner control unit connector	Terminal	Seat memory switch connector	Terminal	Continuity
M33	9	D5	1	Yes
	24		3	
	25		2	

4. Check continuity between automatic drive positioner control unit harness connector and ground.

Automatic drive positioner control unit connector	Terminal		Continuity
M33	9	Ground	No
	24		
	25		

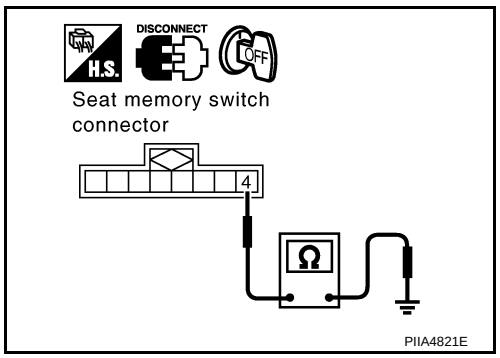
Is the inspection result normal?

YES >> GO TO 2
NO >> Repair or replace harness.

2. CHECK MEMORY SWITCH GROUND CIRCUIT

Check continuity between seat memory switch harness connector and ground.

Seat memory switch connector	Terminal	Ground	Continuity
D5	4		Yes



Is the inspection result normal?

YES >> GO TO 3
NO >> Repair or replace harness.

3. CHECK SEAT MEMORY SWITCH

Refer to ADP-55, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4
NO >> Replace seat memory switch.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

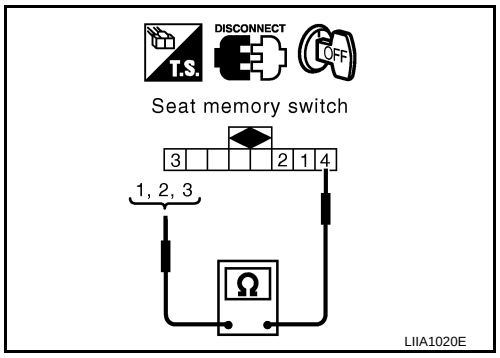
YES >> Replace automatic drive positioner control unit.
NO >> Repair or replace the malfunctioning part.

Component Inspection

INFOID:0000000001673064

1. CHECK SEAT MEMORY SWITCH

1. Turn ignition switch OFF.
2. Disconnect seat memory switch.
3. Check continuity between seat memory switch terminals.



Terminal		Condition		Continuity
Seat memory switch				
4	1	Memory switch 1	Push	Yes
			Release	No
	2	Memory switch 2	Push	Yes
			Release	No
	3	Set switch	Push	Yes
			Release	No

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace seat memory switch.

DOOR MIRROR REMOTE CONTROL SWITCH
CHANGEOVER SWITCH

CHANGEOVER SWITCH : Description

INFOID:0000000001673065

Changeover switch is integrated into door mirror remote control switch.
Changeover switch has three positions (L, N and R).
It changes door mirror motor operation by transmitting control signal to automatic drive positioner control unit.

CHANGEOVER SWITCH : Component Function Check

INFOID:0000000001673066

1. CHECK CHANGEOVER SWITCH FUNCTION

Check the operation on “MIR CHNG SW-R” or “MIR CHNG SW-L” in “DATA MONITOR” mode with CONSULT-III.
Refer to ADP-24, "CONSULT-III Function".

Is the inspection result normal?

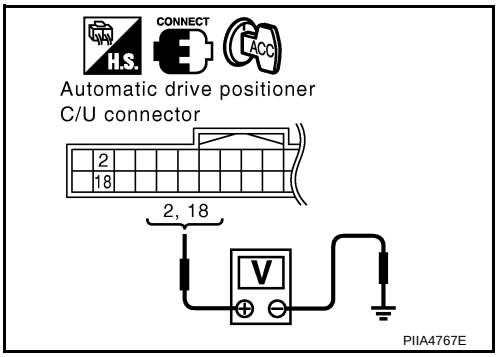
YES >> Changeover switch function is OK.
NO >> Refer to ADP-56, "CHANGEOVER SWITCH : Diagnosis Procedure".

CHANGEOVER SWITCH : Diagnosis Procedure

INFOID:0000000001673067

1. CHECK CHANGEOVER SWITCH SIGNAL

1. Turn ignition switch ON.
2. Check voltage between automatic drive positioner control unit connector and ground.



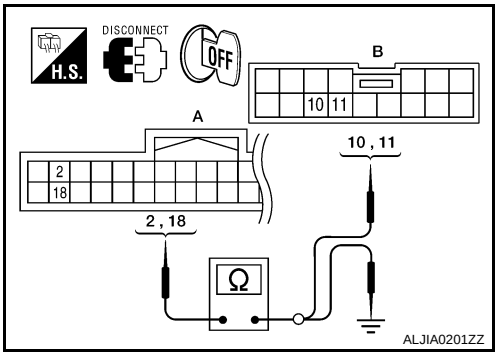
Terminals			Change over switch condition	Voltage (V) (Approx.)
(+)		(-)		
Automatic drive positioner control unit connector	Terminal			
M33	2	Ground	RIGHT	0
			Other than above	5
	18		LEFT	0
			Other than above	5

Is the inspection result normal?

YES >> GO TO 6
NO >> GO TO 2

2. CHECK HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect automatic drive positioner control unit and door mirror remote control switch.
3. Check continuity between automatic drive positioner control unit connector and door mirror remote control switch connector.



Automatic drive positioner control unit connector	Terminal	Door mirror remote control switch connector	Terminal	Continuity
M33 (A)	2	D10 (B)	11	Yes
	18		10	

4. Check continuity between automatic drive positioner control unit connector and ground.

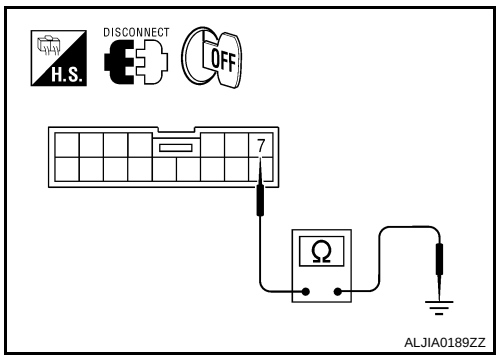
Automatic drive positioner control unit connector	Terminal	Ground	Continuity
M33 (A)	2		No
	18		

Is the inspection result normal?

YES >> GO TO 3
NO >> Repair or replace harness.

3. CHECK DOOR MIRROR REMOTE CONTROL SWITCH GROUND CIRCUIT

Check continuity between door mirror remote control switch connector and ground.



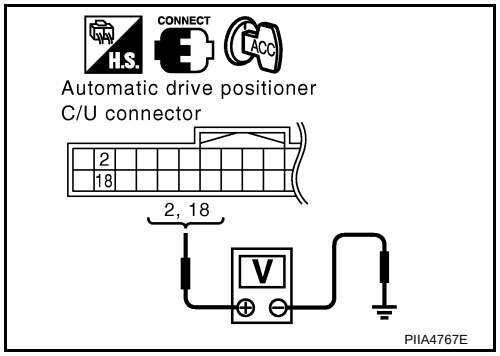
Door mirror remote control switch connector	Terminal	Ground	Continuity
D10	7		Yes

Is the inspection result normal?

YES >> GO TO 4
NO >> Repair or replace harness.

4. CHECK AUTOMATIC DRIVE POSITIONER CONTROL UNIT OUTPUT SIGNAL

1. Connect automatic drive positioner control unit.
2. Turn ignition switch ON.
3. Check voltage between automatic drive positioner control unit connector and ground.



Terminals			Voltage (V) (Approx.)
(+)		(-)	
Automatic drive positioner control unit connector	Terminal		
M33	2	Ground	5
	18		

Is the inspection result normal?

YES >> GO TO 5
NO >> Replace automatic drive positioner control unit.

5. CHECK CHANGEOVER SWITCH

Check changeover switch.
Refer to ADP-57, "CHANGEOVER SWITCH : Component Inspection".

Is the inspection result normal?

YES >> Refer to GI-41, "Intermittent Incident".
NO >> Replace door mirror remote control switch.

6. CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

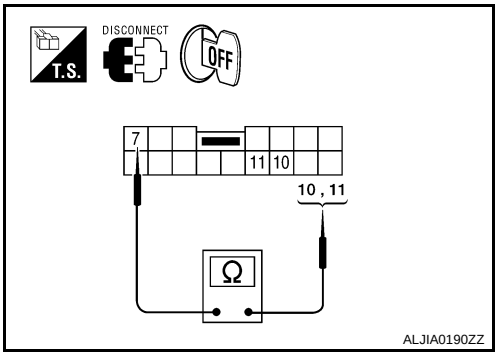
YES >> Replace automatic drive positioner control unit.
NO >> Repair or replace the malfunctioning parts.

CHANGEOVER SWITCH : Component Inspection

INFOID:0000000001673068

1. CHECK CHANGEOVER SWITCH

Check door mirror remote control switch.



Terminal		Change over switch condition	Continuity
Door mirror remote control switch			
10	7	LEFT	Yes
		Other than above	No
11		RIGHT	Yes
		Other than above	No

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace door mirror remote control switch.

MIRROR SWITCH

MIRROR SWITCH : Description

INFOID:0000000001673069

It operates angle of the door mirror face.
It transmits mirror face adjust operation to automatic drive positioner control unit.

MIRROR SWITCH : Component Function Check

INFOID:0000000001673070

1. CHECK MIRROR SWITCH FUNCTION

Check the operation on “MIR CON SW–UP/DN” and “MIR CON SW–RH/LH” in “DATA MONITOR” mode with CONSULT-III.
Refer to ADP-24, "CONSULT-III Function".

Is the inspection result normal?

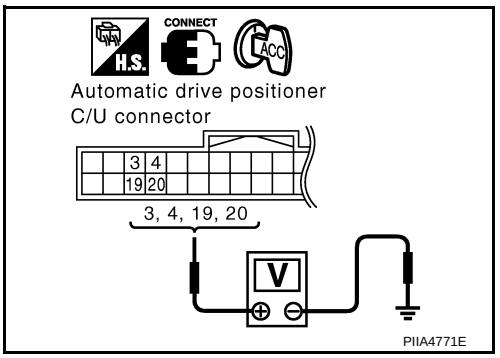
YES >> Mirror switch function is OK.
NO >> Refer to ADP-58, "MIRROR SWITCH : Diagnosis Procedure".

MIRROR SWITCH : Diagnosis Procedure

INFOID:0000000001673071

1. CHECK MIRROR SWITCH FUNCTION

1. Turn ignition switch ON.
2. Check voltage between automatic drive positioner control unit connector and ground.



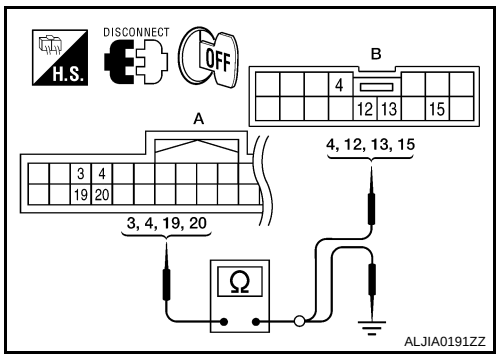
Terminals			Mirror switch Condition	Voltage (V) (Approx.)
(+)		(–)		
Automatic drive positioner control unit connector	Terminal			
M33	3	Ground	UP	0
			Other than above	5
	4		LEFT	0
			Other than above	5
	19		DOWN	0
			Other than above	5
	20		RIGHT	0
			Other than above	5

Is the inspection result normal?

YES >> GO TO 6
NO >> GO TO 2

2. CHECK HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect automatic drive positioner control unit and door mirror remote control switch.
3. Check continuity between automatic drive positioner control unit connector and door mirror remote control switch connector.



Automatic drive positioner control unit connector	Terminal	Door mirror remote control switch connector	Terminal	Continuity
M33 (A)	3	D10 (B)	15	Yes
	4		13	
	19		12	
	20		4	

4. Check continuity between automatic drive positioner control unit connector and ground.

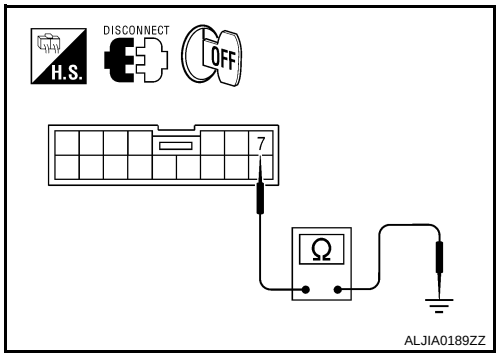
Automatic drive positioner control unit connector	Terminal	Ground	Continuity
M33 (A)	3		No
	4		
	19		
	20		

Is the inspection result normal?

YES >> GO TO 3
NO >> Repair or replace harness.

3. CHECK DOOR MIRROR REMOTE CONTROL SWITCH GROUND CIRCUIT

Check continuity between door mirror remote control switch connector and ground.



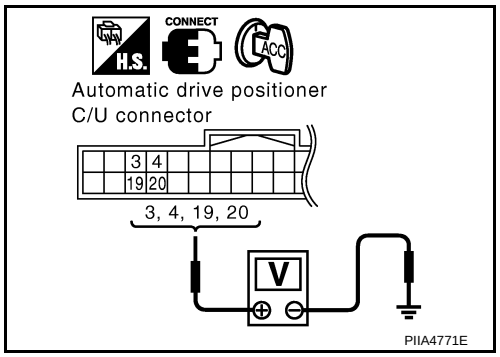
Door mirror remote control switch connector	Terminal	Ground	Continuity
D10	7		Yes

Is the inspection result normal?

YES >> GO TO 4
NO >> Repair or replace harness.

4. CHECK AUTOMATIC DRIVE POSITIONER CONTROL UNIT OUTPUT SIGNAL

1. Connect automatic drive positioner control unit.
2. Turn ignition switch ON.
3. Check voltage between automatic drive positioner control unit and ground.



Terminals			Voltage (V) (Approx.)
(+)		(-)	
Automatic drive positioner control unit connector	Terminal		
M33	3	Ground	5
	4		
	19		
	20		

Is the inspection result normal?

YES >> GO TO 5
NO >> Replace automatic drive positioner control unit.

5. CHECK MIRROR SWITCH

Check mirror switch.
Refer to ADP-60, "MIRROR SWITCH : Component Inspection".

Is the inspection result normal?

YES >> Refer to GI-41, "Intermittent Incident".
NO >> Replace door mirror remote control switch.

6. CHECK INTERMITTENT INCIDENT

Check intermittent incident.
Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

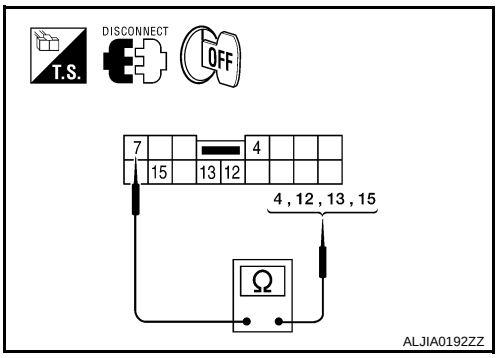
YES >> Replace automatic drive positioner control unit.
NO >> Repair or replace the malfunctioning parts.

MIRROR SWITCH : Component Inspection

INFOID:0000000001673072

1. CHECK MIRROR SWITCH

Check door mirror remote control switch.



Terminal		Mirror switch condition	Continuity
Door mirror remote control switch			
4	7	RIGHT	Yes
		Other than above	No
13		LEFT	Yes
		Other than above	No
15		UP	Yes
		Other than above	No
12		DOWN	Yes
		Other than above	No

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace door mirror remote control switch.

POWER SEAT SWITCH GROUND CIRCUIT

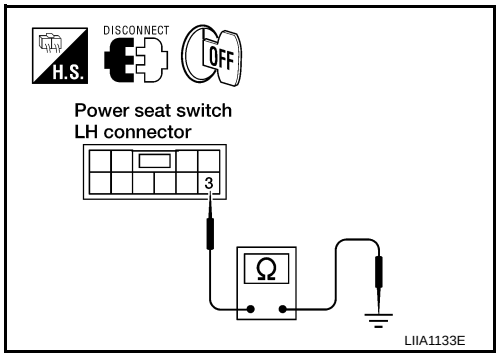
Diagnosis Procedure

INFOID:0000000001673073

1. CHECK POWER SEAT SWITCH LH GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect power seat switch LH.
3. Check continuity between power seat switch LH connector and ground.

Power seat switch LH connector	Terminal	Ground	Continuity
B208	32		Yes



Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident".

NO >> Repair or replace harness.

DETENTION SWITCH

Description

INFOID:0000000001673074

Park position switch is installed on A/T device. It is turned OFF when the A/T selector lever is in P position. The driver seat control unit judges that the A/T selector lever is in P position if continuity does not exist in this circuit.

Component Function Check

INFOID:0000000001673075

1. CHECK FUNCTION

1. Select “DETENT SW” signal in “Data monitor” mode with CONSULT-III.
2. Check park position switch signal under the following conditions.

Monitor item	Condition		Status
DETENT SW	A/T selector lever	P position	OFF
		Other than above	ON

Is the indication normal?

YES >> INSPECTION END
NO >> Perform diagnosis procedure. Refer to ADP-62, "Diagnosis Procedure (Floor Shift)" or ADP-63, "Diagnosis Procedure (Column Shift)".

Diagnosis Procedure (Floor Shift)

INFOID:0000000001673076

1. CHECK DTC WITH “BCM”

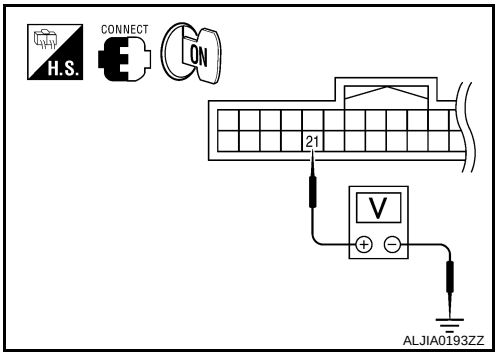
Check “Self Diagnostic Result” for BCM with CONSULT-lll.

Is any other DTC detected?

YES >> Check the DTC.
NO >> GO TO 2

2. CHECK PARK POSITION SWITCH INPUT SIGNAL

1. Turn ignition switch ON.
2. Mechanical key must be removed from the key switch.
3. Check voltage between driver seat control unit harness connector and ground.



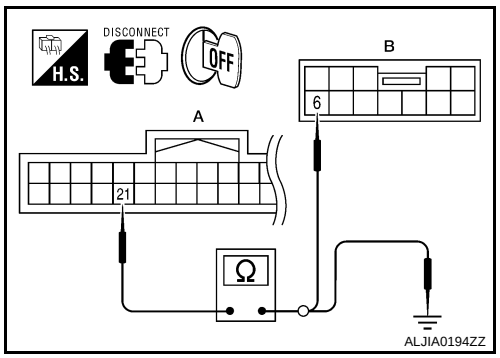
Driver seat control unit connector	Terminal (+)	Terminal (-)	Condition		Voltage (V) (Approx.)
B202	21	Ground	A/T selector lever	P position	Battery voltage
				Other than above	0V

Is the inspection result normal?

YES >> GO TO 4
NO >> GO TO 3

3. CHECK PARK POSITION SWITCH CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect driver seat control unit and A/T device.
3. Check continuity between driver seat control unit harness connector (A) and A/T device harness connector (B).



A		B		Continuity
Connector	Terminal	Connector	Terminal	
B202	21	M203	6	Yes

4. Check continuity between driver seat control unit harness connector (A) and ground.

A		—	Continuity
Connector	Terminal		
B202	21	Ground	No

Is the inspection result normal?

YES >> GO TO 4
NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit.
NO >> Repair or replace the malfunctioning part.

Diagnosis Procedure (Column Shift)

INFOID:0000000001674187

1. CHECK DTC WITH “BCM”

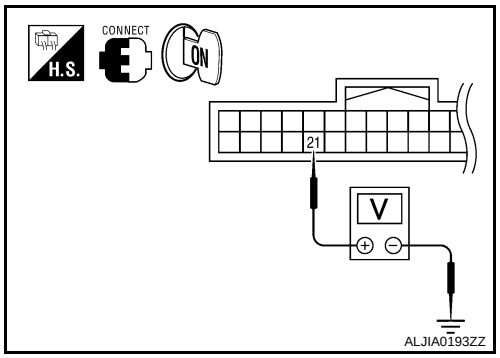
Check “Self Diagnostic Result” for BCM with CONSULT-lll.

Is any other DTC detected?

YES >> Check the DTC.
NO >> GO TO 2

2. CHECK PARK POSITION SWITCH INPUT SIGNAL

1. Turn ignition switch ON.
2. Check voltage between driver seat control unit harness connector and ground.



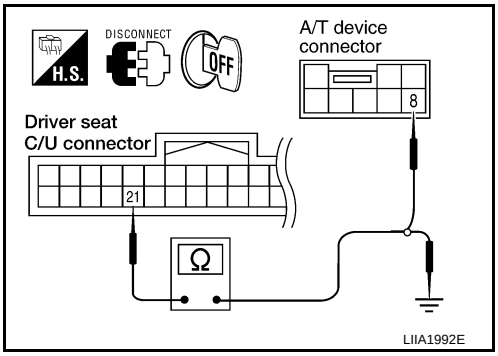
Driver seat control unit connector	Terminal		Condition		Voltage (V) (Approx.)
	(+)	(-)			
B202	21	Ground	A/T selector lever	P position	Battery voltage
				Other than above	0V

Is the inspection result normal?

YES >> GO TO 4
NO >> GO TO 3

3. CHECK PARK POSITION SWITCH CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect driver seat control unit and A/T device.
3. Check continuity between driver seat control unit harness connector and A/T device harness connector.



Driver seat control unit		A/T device		Continuity
Connector	Terminal	Connector	Terminal	
B202	21	M68	8	Yes

4. Check continuity between driver seat control unit harness connector (A) and ground.

Driver seat control unit		Ground	Continuity
Connector	Terminal		
B202	21		No

Is the inspection result normal?

YES >> GO TO 4
NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit.
NO >> Repair or replace the malfunctioning part.

FRONT DOOR SWITCH (DRIVER SIDE)

Description

INFOID:0000000001673077

Detects front door LH open/close condition.

Component Function Check

INFOID:0000000001673078

1. CHECK FUNCTION

1. Select “DOOR SW-DR” in “Data monitor” mode with CONSULT-III.
2. Check the front door switch LH signal under the following conditions.

Monitor item	Condition		Status
DOOR SW-DR	Front door switch LH	Open	ON
		Close	OFF

Is the inspection result normal?

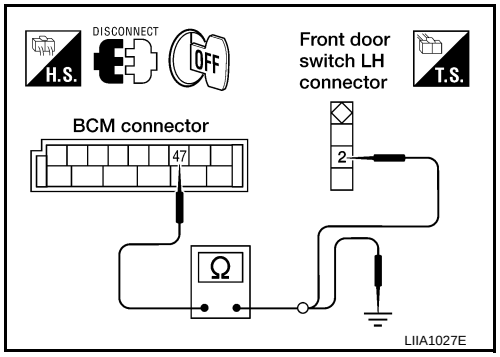
YES >> INSPECTION END
NO >> Perform diagnosis procedure. Refer to ADP-65, "Diagnosis Procedure (Crew Cab)" or ADP-67, "Component Inspection (King Cab)".

Diagnosis Procedure (Crew Cab)

INFOID:0000000001673079

1. CHECK FRONT DOOR SWITCH LH CIRCUIT

1. Disconnect BCM.
2. Check continuity between BCM connector and front door switch LH connector.



BCM connector	Terminal	Front door switch LH connector	Terminal	Continuity
M19	47	B8	2	Yes

3. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
M19	47		No

Is the inspection result normal?

YES >> GO TO 2
NO >> Repair or replace harness.

2. CHECK FRONT DOOR SWITCH LH

Refer to ADP-66, "Component Inspection (Crew Cab)".

Is the inspection result normal?

YES >> GO TO 3
NO >> Replace front door switch LH.

3. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

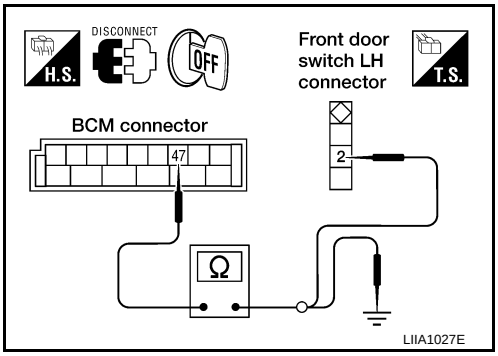
YES >> Replace BCM. Refer to BCS-50, "Removal and Installation".
NO >> Repair or replace the malfunctioning part.

Diagnosis Procedure (King Cab)

INFOID:0000000001674188

1. CHECK FRONT DOOR SWITCH LH CIRCUIT

1. Disconnect BCM.
2. Check continuity between BCM connector and front door switch LH connector.



BCM connector	Terminal	Front door switch LH connector	Terminal	Continuity
M19	47	B8	2	Yes

3. Check continuity between BCM connector and ground.

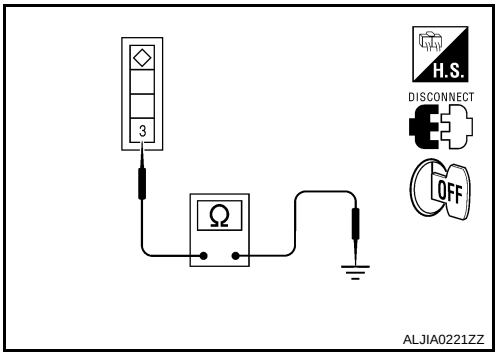
BCM connector	Terminal	Ground	Continuity
M19	47		No

Is the inspection result normal?

YES >> GO TO 2
NO >> Repair or replace harness.

2. CHECK FRONT DOOR SWITCH LH GROUND CIRCUIT

1. Disconnect front door switch LH.
2. Check continuity between front door switch LH connector and ground.



Front door switch LH connector	Terminal	Ground	Continuity
B8	3		Yes

Is the inspection result normal?

YES >> GO TO 3
NO >> Repair or replace harness.

3. CHECK FRONT DOOR SWITCH LH

Refer to ADP-67, "Component Inspection (King Cab)".

Is the inspection result normal?

YES >> GO TO 3
NO >> Replace front door switch LH.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

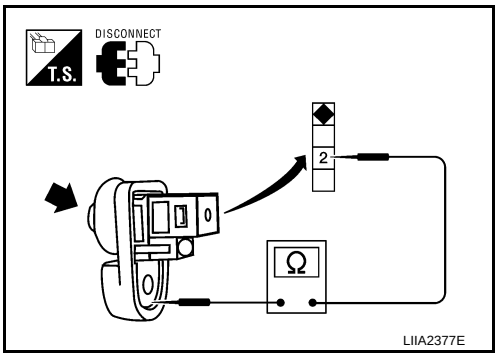
YES >> Replace BCM. Refer to BCS-50, "Removal and Installation".
NO >> Repair or replace the malfunctioning part.

Component Inspection (Crew Cab)

INFOID:0000000001673080

1. CHECK FRONT DOOR SWITCH LH

1. Turn ignition switch OFF.
2. Disconnect front door switch LH.
3. Check continuity between front door switch LH terminals.



Terminal		Condition		Continuity
Front door switch LH				
2	Ground part of door switch	Front door switch LH	Pushed	No
			Released	Yes

Is the inspection result normal?

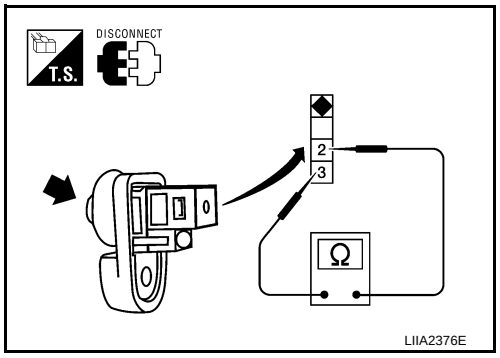
YES >> INSPECTION END
NO >> Replace front door switch LH.

Component Inspection (King Cab)

INFOID:0000000001674190

1. CHECK FRONT DOOR SWITCH LH

1. Turn ignition switch OFF.
2. Disconnect front door switch LH.
3. Check continuity between front door switch LH terminals.



Terminal		Condition		Continuity
Front door switch LH				
2	3	Front door switch LH	Pushed	No
			Released	Yes

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace front door switch LH.

SLIDING SENSOR

Description

INFOID:0000000001673081

- The sliding sensor is installed to the seat slide cushion frame.
- The pulse signal is input to the driver seat control unit when sliding is performed.
- The driver seat control unit counts the pulse and calculates the sliding amount of the seat.

Component Function Check

INFOID:0000000001673082

1. CHECK FUNCTION

1. Select “SLIDE PULSE” in “Data monitor” mode with CONSULT-III.
2. Check sliding sensor signal under the following conditions.

Monitor item	Condition		Valve
SLIDE PULSE	Seat sliding	Operate (forward)	Change (increase)
		Operate (backward)	Change (decrease)
		Release	No change

Is the indication normal?

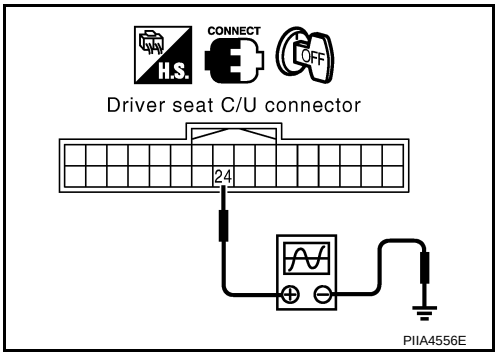
YES >> INSPECTION END
NO >> Perform diagnosis procedure. Refer to ADP-68, "Diagnosis Procedure".

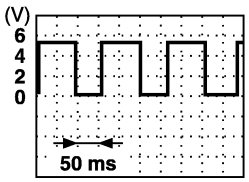
Diagnosis Procedure

INFOID:0000000001673083

1. CHECK SLIDING SENSOR SIGNAL

1. Turn ignition switch ON.
2. Read voltage signal between driver seat control unit harness connector and ground with osiloscope.



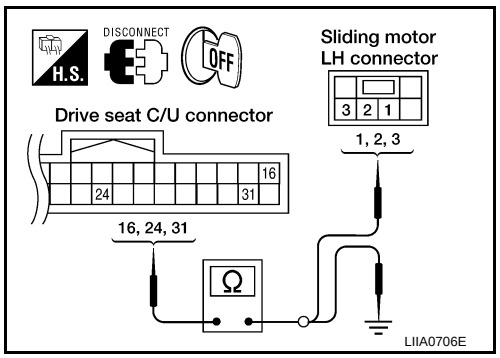
Terminals (+) Driver’s seat control unit	Terminals (+) Terminal	Terminals (–)	Condition		Voltage signal
B202	24	Ground	Seat sliding	Operate	 PIIA3277E
				Other than above	0 or 5

Is the inspection result normal?

YES >> GO TO 4
NO >> GO TO 2

2. CHECK SLIDING SENSOR CIRCUITS

1. Turn ignition switch OFF.
2. Disconnect driver seat control unit and sliding motor LH.
3. Check continuity between driver seat control unit harness connector and sliding motor LH harness connector.



Driver seat control unit connector	Terminal	Sliding motor LH connector	Terminal	Continuity
B202	16	B204	3	Yes
	24		2	
	31		1	

4. Check continuity between driver seat control unit harness connector and ground.

Driver seat control unit connector	Terminal		Continuity
B202	16	Ground	No
	24		
	31		

Is the inspection result normal?

YES >> GO TO 3
NO >> Repair or replace harness.

3. CHECK SEAT OPERATION

1. Connect driver seat control unit and sliding motor LH.
2. Check seat operation (except sliding operation) with memory function.

Is the inspection result normal?

YES >> Replace sliding motor LH. (Built in seat slide cushion frame).
NO >> Replace driver seat control unit.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit.
NO >> Repair or replace the malfunctioning part.

RECLINING SENSOR

Description

INFOID:0000000001673084

- The reclining motor is installed to the seatback frame.
- The pulse signal is inputted to the driver seat control unit when the reclining is operated.
- The driver seat control unit counts the pulse and calculates the reclining amount of the seat.

Component Function Check

INFOID:0000000001673085

1. CHECK FUNCTION

1. Select “RECLN PULSE” in “Data monitor” mode with CONSULT-III.
2. Check reclining sensor signal under the following conditions.

Monitor item	Condition		Value
RECLN PULSE	Seat reclining	Operate (forward)	Change (increase)
		Operate (backward)	Change (decrease)
		Release	No change

Is the indication normal?

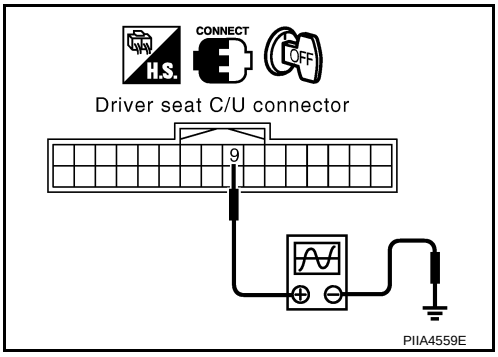
YES >> INSPECTION END
NO >> Perform diagnosis procedure. Refer to ADP-70, "Diagnosis Procedure".

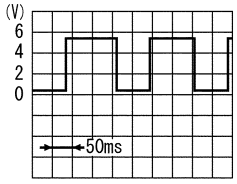
Diagnosis Procedure

INFOID:0000000001673086

1. CHECK RECLINING SENSOR SIGNAL

1. Turn ignition switch ON.
2. Read voltage signal between driver seat control unit harness connector and ground with oscilloscope.



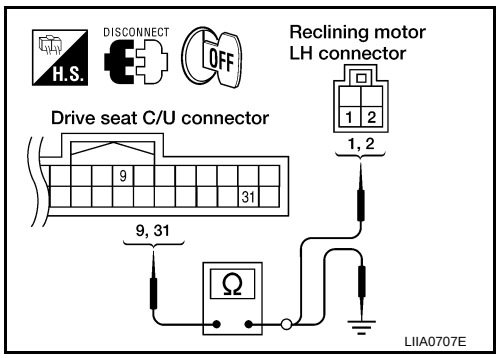
Terminals (+) Driver seat control unit	Terminals (+) Terminal	Terminals (–)	Condition		Voltage signal
B202	9	Ground	Seat reclining	Operate	 SIIA0692J
				Other than above	0 or 5

Is the inspection result normal?

YES >> GO TO 4
NO >> GO TO 2

2. CHECK RECLINING SENSOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect driver seat control unit and reclining motor LH.
3. Check continuity between driver seat control unit harness connector and reclining motor LH harness connector.



Driver seat control unit connector	Terminal	Reclining motor connector	Terminal	Continuity
B202	9	B205	1	Yes
	31		2	

4. Check continuity between driver seat control unit harness connector and ground.

Driver seat control unit connector	Terminal	Ground	Continuity
B202	9		No
	31		

Is the inspection result normal?

YES >> GO TO 3
NO >> Repair or replace harness.

3. CHECK SEAT OPERATION

1. Connect driver seat control unit and reclining motor LH connector.
2. Check seat operation (except reclining operation) with memory function.

Is the operation normal?

YES >> Replace reclining motor LH. (Built in seat slide cushion frame.)
NO >> Replace driver seat control unit.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit.
NO >> Repair or replace the malfunctioning part.

LIFTING SENSOR (FRONT)

Description

INFOID:0000000001673087

- The lifting sensor (front) is installed to the seat slide cushion frame.
- The pulse signal is input to the driver seat control unit when the lifting (front) is operated.
- The driver seat control unit counts the pulse and calculates the lifting (front) amount of the seat.

Component Function Check

INFOID:0000000001673088

1.CHECK FUNCTION

1. Select “LIFT FR PULSE” in “Data monitor” mode with CONSULT-III.
2. Check the lifting sensor (front) signal under the following conditions.

Monitor item	Condition		Value
LIFT FR PULSE	Seat lifting (front)	Operate (up)	Change (increase)
		Operate (down)	Change (decrease)
		Release	No change

Is the indication normal?

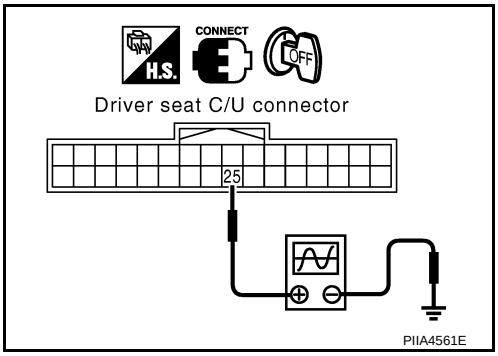
YES >> INSPECTION END
NO >> Perform diagnosis procedure. Refer to ADP-72, "Diagnosis Procedure".

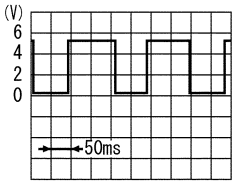
Diagnosis Procedure

INFOID:0000000001673089

1. CHECK LIFTING SENSOR (FRONT) SIGNAL

1. Turn ignition switch ON.
2. Read the voltage signal between driver seat control unit harness connector and ground with an oscilloscope.



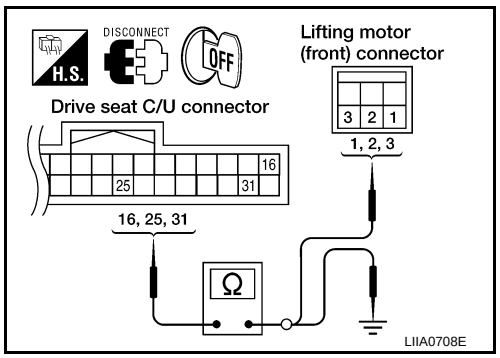
Terminals (+) Driver seat control unit connector	Terminals (+) Terminal	Terminals (–)	Condition		Voltage signal
B202	25	Ground	Seat lifting (front)	Operate	 SIIA0691J
				Other than above	0 or 5

Is the inspection result normal?

YES >> GO TO 4
NO >> GO TO 2

2. CHECK LIFTING SENSOR (FRONT) CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect driver seat control unit and lifting motor (front).
3. Check continuity between driver seat control unit harness connector and lifting motor (front) harness connector.



Driver seat control unit connector	Terminal	Lifting motor (front) connector	Terminal	Continuity
B202	16	B206	3	Yes
	25		2	
	31		1	

4. Check continuity between driver seat control unit harness connector and ground.

Driver seat control unit connector	Terminal		Continuity
B202	16	Ground	No
	25		
	31		

Is the inspection result normal?

YES >> GO TO 3
NO >> Repair or replace harness.

3. CHECK SEAT OPERATION

1. Connect driver seat control unit and lifting motor (front) connector.
2. Check seat operation [except lifting (front) operation] with memory function.

Is the operation normal?

YES >> Replace lifting motor (front). (Built in seat slide cushion frame.)
NO >> Replace driver seat control unit.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit.
NO >> Repair or replace the malfunctioning part.

LIFTING SENSOR (REAR)

Description

INFOID:0000000001673090

- The lifting sensor (rear) is installed to the seat slide cushion frame.
- The pulse signal is input to the driver seat control unit when the lifting (rear) is operated.
- The driver seat control unit counts the pulse and calculates the lifting (rear) amount of the seat.

Component Function Check

INFOID:0000000001673091

1. CHECK FUNCTION

1. Select “LIFT RR PULSE” in “Data monitor” mode with CONSULT-III.
2. Check lifting sensor (rear) signal under the following conditions.

Monitor item	Condition		Value
LIFT RR PULSE	Seat lifting (rear)	Operate (up)	Change (increase)
		Operate (down)	Change (decrease)
		Release	No change

Is the indication normal?

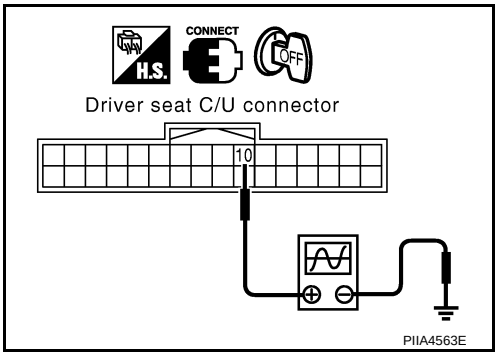
YES >> INSPECTION END
NO >> Perform diagnosis procedure. Refer to ADP-74, "Diagnosis Procedure".

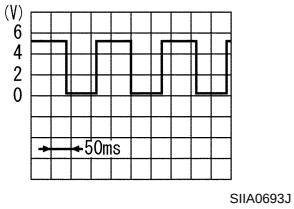
Diagnosis Procedure

INFOID:0000000001673092

1. CHECK LIFTING SENSOR (REAR) SIGNAL

1. Turn ignition switch OFF.
2. Read voltage signal between driver seat control unit harness connector and ground with oscilloscope.



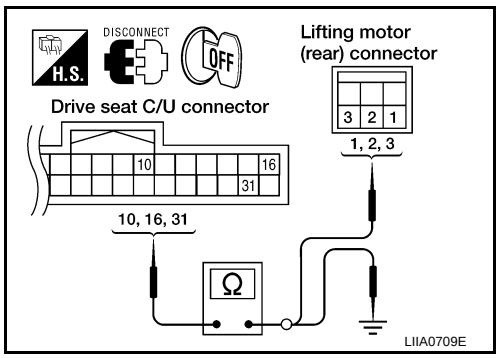
Terminals (+)		Terminals (–)	Condition		Voltage signal
Driver seat control unit connector	Terminal				
B202	10	Ground	Seat lifting (rear)	Operate	
				Other than above	0 or 5

Is the inspection result normal?

YES >> GO TO 4
NO >> GO TO 2

2. CHECK LIFTING SENSOR (REAR) CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect driver seat control unit and lifting motor (rear).
3. Check the continuity between driver seat control unit harness connector and lifting motor (rear) harness connector.



Driver seat control unit connector	Terminal	Lifting motor (rear) connector	Terminal	Continuity
B202	10	B207	2	Yes
	16		3	
	31		1	

4. Check the continuity between driver seat control unit harness connector and ground.

Driver seat control unit connector	Terminal		Continuity
B202	10	Ground	No
	16		
	31		

Is the inspection result normal?

YES >> GO TO 3
NO >> Repair or replace harness.

3. CHECK SEAT OPERATION

1. Connect driver seat control unit and lifting motor (rear) connector.
2. Check the seat operation [except lifting (rear) operation] with memory function.

Is the operation normal?

YES >> Replace lifting motor (rear). (Built in seat slide cushion frame.)
NO >> Replace driver seat control unit.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit.
NO >> Repair or replace the malfunctioning part.

PEDAL ADJUSTING SENSOR

Description

INFOID:0000000001673093

- The pedal adjusting sensor is installed to the pedal assembly.
- The resistance of pedal adjusting sensor is changed according to the forward/backward position of pedal assembly.
- The terminal voltage of automatic drive positioner control unit will be changed according to a change of pedal adjusting sensor resistance. Automatic drive positioner control unit calculates the pedal assembly position from the voltage.

Component Function Check

INFOID:0000000001673094

1. CHECK FUNCTION

1. Select “PEDAL SEN” in “Data monitor” mode with CONSULT-III.
2. Check the pedal sensor signal under the following condition.

Monitor item	Condition		Value
PEDAL SEN	Pedal position	Forward	0.5V
		Backward	4.5V

Is the indication normal?

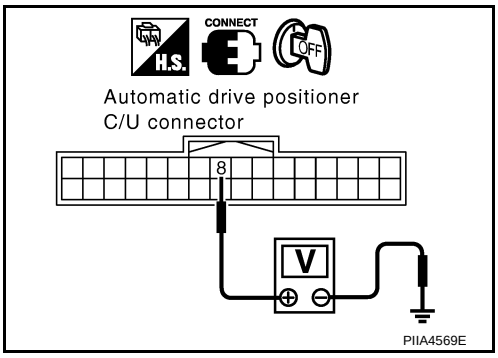
YES >> INSPECTION END
NO >> Perform diagnosis procedure. Refer to ADP-76, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001673095

1. CHECK PEDAL ADJUSTING SENSOR SIGNAL

1. Turn ignition switch ON.
2. Check voltage between automatic drive positioner control unit harness connector and ground.



Terminal			Condition		Voltage (V) (Approx.)
(+)		(-)			
Automatic drive positioner control unit	Terminal				
M33	8	Ground	Pedal assembly position	Forward	0.5
				Backward	4.5

Is the inspection result normal?

YES >> GO TO 4
NO >> GO TO 2

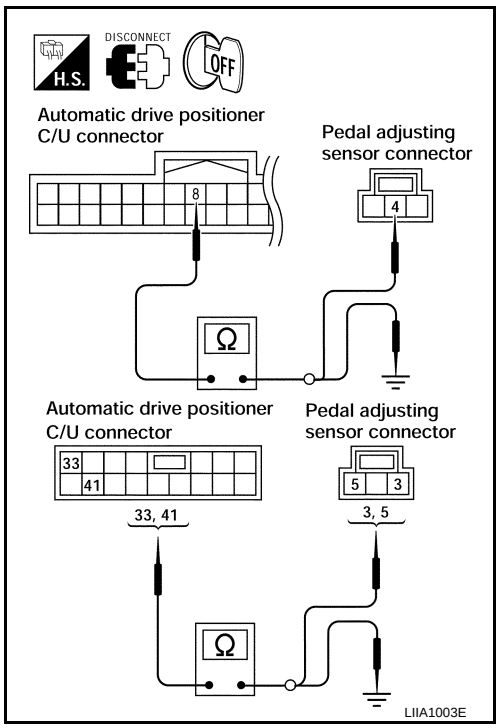
2. CHECK PEDAL ADJUSTING SENSOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconect automatic drive positioner control unit and pedal adjusting sensor.
3. Check continuity between automatic drive positioner control unit harnnes connector and pedal adjusting sensor harness connector.

Automatic drive positioner control unit connector	Terminal	Pedal adjusting sensor connector	Terminal	Continuity
M33	8	E110	4	Yes
M34	33		3	
	41		5	

4. Check continuity between automatic drive positioner control unit harness connector and ground.

Automatic drive positioner control unit connector	Terminal	Ground	Continuity
M33	8		No
M34	33		
	41		



Is the inspection result normal?

YES >> GO TO 3
NO >> Repair or replace harness.

3. CHECK DOOR MIRROR OPERATION

1. Connect automatic drive positioner control unit connector and pedal adjusting sensor.
2. Turn ignition switch ON.
3. Check door mirror operation with memory function.

Is the operation normal?

YES >> Replace pedal adjusting sensor. (Built in pedal adjusting motor.)
NO >> Replace automatic drive positioner control unit.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit.
NO >> Repair or replace the malfunctioning part.

MIRROR SENSOR
DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000001673096

- The mirror sensor LH is installed to the door mirror LH.
- The resistance of 2 sensors (horizontal and vertical) is changed when the door mirror LH is operated.
- Automatic drive positioner control unit calculates the door mirror position according to the change of the voltage of 2 sensor input terminals.

DRIVER SIDE : Component Function Check

INFOID:0000000001673097

1. CHECK FUNCTION

1. Select “MIR/SEN LH U-D”, “MIR/SEN LH R-L” in “Data monitor” with CONSULT-III.
2. Check mirror sensor (driver side) signal under the following condition.

Monitor item	Condition		Value
MIR/SEN LH U-D	Door mirror LH	Close to peak	3.4V
		Close to valley	0.6V
MIR/SEN LH R-L		Close to right edge	3.4V
		Close to left edge	0.6V

Is the indication normal?

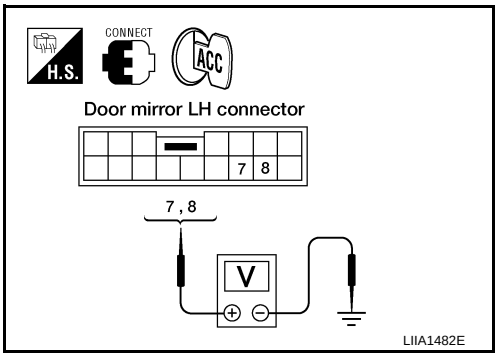
YES >> INSPECTION END
NO >> Perform diagnosis procedure. Refer to ADP-78, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000001673098

1. CHECK DOOR MIRROR LH SENSOR SIGNAL

1. Turn ignition switch ACC.
2. Check voltage between door mirror LH harness connector and ground.



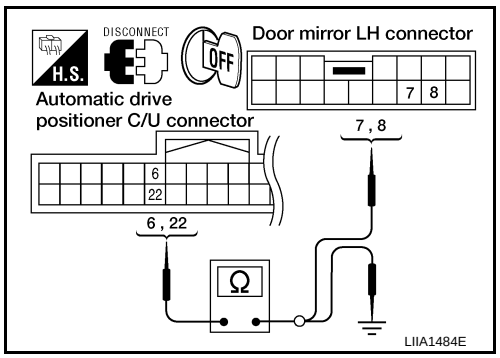
Terminals			Condition		Voltage (V) (Approx.)
(+)		(–)			
Door mirror LH connector	Terminal				
D4	7	Ground	Door mirror LH	Close to peak	3.4
				Close to valley	0.6
	8			Close to right edge	3.4
				Close to left edge	0.6

Is the inspection result normal?

YES >> GO TO 5
NO >> GO TO 2

2. CHECK DOOR MIRROR LH SENSOR CIRCUIT 1

1. Turn ignition switch OFF.
2. Disconnect automatic drive positioner control unit and door mirror LH.
3. Check continuity between automatic drive positioner control unit harness connector and door mirror LH harness connector.



Automatic drive positioner control unit connector	Terminal	Door mirror LH connector	Terminal	Continuity
M33	6	D4	7	Yes
	22		8	

4. Check continuity between automatic drive positioner control unit harness connector and ground.

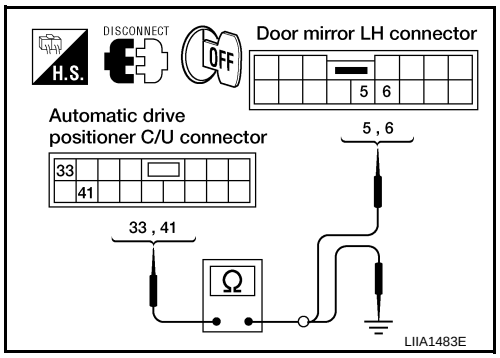
Automatic drive positioner control unit connector	Terminal	Ground	Continuity
M33	6		No
	22		

Is the inspection result normal?

YES >> GO TO 3
NO >> Repair or replace harness.

3. CHECK DOOR MIRROR LH SENSOR CIRCUIT 2

1. Check continuity between automatic drive positioner control unit harness connector and door mirror LH harness connector.



Automatic drive positioner control unit connector	Terminal	Door mirror LH connector	Terminal	Continuity
M34	33	D4	5	Yes
	41		6	

2. Check continuity between automatic drive positioner control unit harness connector and ground.

Automatic drive positioner control unit connector	Terminal	Ground	Continuity
M34	33		No
	41		

Is the inspection result normal?

YES >> GO TO 4
NO >> Repair or replace harness.

4. CHECK PEDAL ADJUSTING OPERATION

1. Connect driver seat control unit connector and door mirror LH.
2. Turn ignition switch ON.
3. Check pedal adjusting operation with memory function.

Is the operation normal?

YES >> Replace door mirror sensor. (Built in door mirror LH.)
NO >> Replace automatic drive positioner control unit.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit.
NO >> Repair or replace the malfunctioning part.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000001673099

- The mirror sensor RH is installed to the door mirror RH.
- The resistance of 2 sensors (horizontal and vertical) is changed when the door mirror RH is operated.
- Automatic drive positioner control unit calculates the door mirror position according to the change of the voltage of 2 sensor input terminals.

PASSENGER SIDE : Component Function Check

INFOID:0000000001673100

1. CHECK FUNCTION

1. Select “MIR/SEN RH U-D”, “MIR/SEN RH R-L” in “Data monitor” with CONSULT-III.
2. Check the mirror sensor RH signal under the following conditions.

Monitor item	Condition		Value
MIR/SEN RH U-D	Door mirror RH	Close to peak	3.4V
		Close to valley	0.6V
MIR/SEN RH R-L		Close to right edge	3.4V
		Close to left edge	0.6V

Is the indication normal?

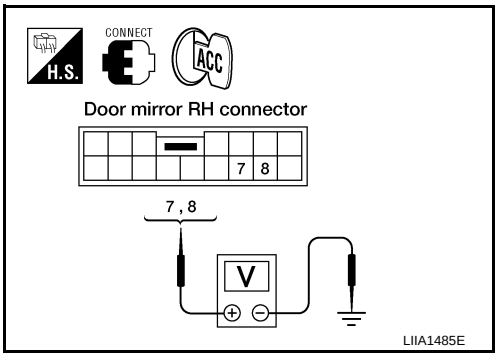
YES >> INSPECTION END
NO >> Perform diagnosis procedure. Refer to ADP-80, "PASSENGER SIDE : Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000001673101

1. CHECK DOOR MIRROR RH SENSOR SIGNAL

1. Turn ignition switch ACC.
2. Check voltage between door mirror RH harness connector and ground.



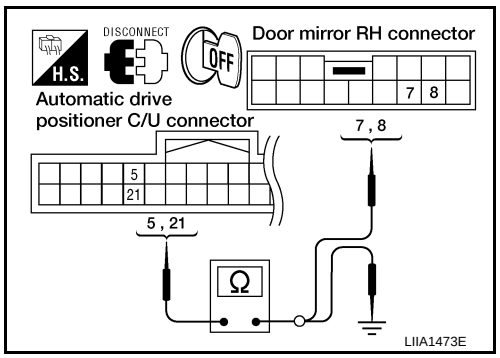
Terminals			Condition		Voltage (V) (Approx.)
(+)		(–)			
Door mirror RH connector	Terminal				
D107	7	Ground	Door mirror RH	Close to peak	3.4
				Close to valley	0.6
	8			Close to right edge	3.4
				Close to left edge	0.6

Is the inspection result normal?

YES >> GO TO 5
NO >> GO TO 2

2. CHECK DOOR MIRROR RH SENSOR HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect automatic drive positioner control unit and door mirror RH.
3. Check continuity between automatic drive positioner control unit harness connector and door mirror RH harness connector.



Automatic drive positioner control unit connector	Terminal	Door mirror RH connector	Terminal	Continuity
M33	5	D107	7	Yes
	21		8	

4. Check continuity between automatic drive positioner control unit harness connector and ground.

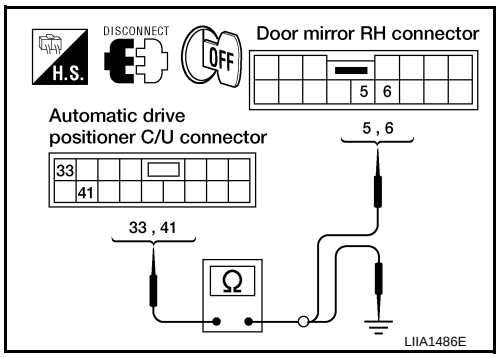
Automatic drive positioner control unit connector	Terminal	Ground	Continuity
M33	5		No
	21		

Is the inspection result normal?

YES >> GO TO 3
NO >> Repair or replace harness.

3. CHECK DOOR MIRROR RH SENSOR POWER SUPPLY CIRCUIT

1. Check continuity between automatic drive positioner control unit harness connector and door mirror RH harness connector.



Automatic drive positioner control unit connector	Terminal	Door mirror RH connector	Terminal	Continuity
M34	33	D107	5	Yes
	41		6	

2. Check continuity between automatic drive positioner control unit harness connector and ground.

Automatic drive positioner control unit connector	Terminal	Ground	Continuity
M34	33		No
	41		

Is the inspection result normal?

YES >> GO TO 4
NO >> Repair or replace harness.

4. CHECK PEDAL ADJUSTING OPERATION

1. Connect driver seat control unit connector and door mirror RH.
2. Turn ignition switch ON.
3. Check pedal adjusting operation with memory function.

Is the operation normal?

YES >> Replace door mirror sensor. (Built in door mirror RH.)
NO >> Replace automatic drive positioner control unit.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit.
NO >> Repair or replace the malfunctioning part.

SLIDING MOTOR

Description

INFOID:0000000001673102

- The sliding motor LH is installed to the seat cushion frame.
- The sliding motor LH is installed with the driver seat control unit.
- The seat is slid forward/backward by changing the rotation direction of sliding motor LH.

Component Function Check

INFOID:0000000001673103

1. CHECK FUNCTION

1. Select “SEAT SLIDE” in “Active test” mode with CONSULT-III.
2. Check the sliding motor LH operation.

Test Item		Description	
SEAT SLIDE	OFF	Seat sliding	Stop
	FR		Forward
	RR		Backward

Is the operation of relevant parts normal?

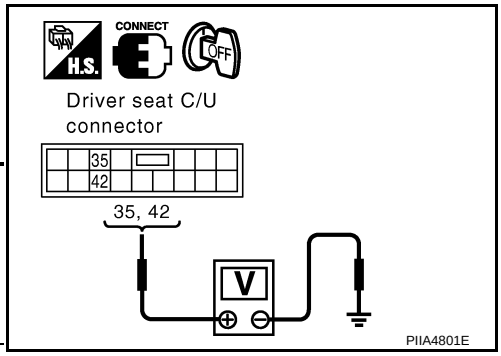
YES >> INSPECTION END
NO >> Perform diagnosis procedure. Refer to ADP-82, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001673104

1. CHECK SLIDING MOTOR LH POWER SUPPLY

1. Turn the ignition switch ACC.
2. Perform “Active test” (“SEAT SLIDE”) with CONSULT-lll
3. Check voltage between driver seat control unit harness connector and ground.



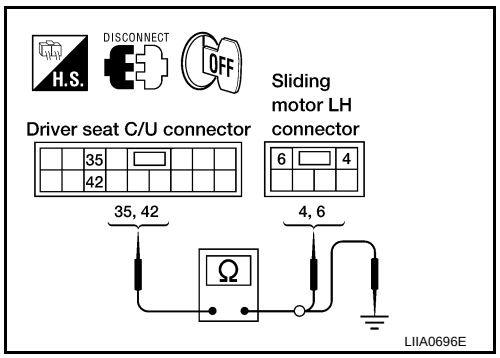
Terminal (+) Driver seat control unit connector	Terminal (+) Terminal	Terminal (-)	Test Item		Voltage (V) (Approx.)
B203	35	Ground	SEAT SLIDE	OFF	0
				FR (forward)	Battery voltage
				RR (backward)	0
	42			OFF	0
				FR (forward)	0
				RR (backward)	Battery voltage

Is the inspection result normal?

YES >> Replace sliding motor LH. (Built in seat slide cushion frame.)
NO >> GO TO 2

2. CHECK SLIDING MOTOR LH CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect driver seat control unit and sliding motor LH.
3. Check continuity between driver seat control unit harness connector and sliding motor LH harness connector.



Driver seat control unit connector	Terminal	Sliding motor LH connector	Terminal	Continuity
B203	35	B204	6	Yes
	42		4	

4. Check continuity between driver seat control unit harness connector and ground.

Driver seat control unit connector	Terminal	Ground	Continuity
B203	35		No
	42		

Is the inspection result normal?

YES >> GO TO 3
NO >> Repair or replace harness.

3. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit.
NO >> Repair or replace the malfunctioning part.

RECLINING MOTOR

Description

INFOID:0000000001673105

- The reclining motor LH is installed to the seat back frame.
- The reclining motor LH is activated with the driver seat control unit.
- The seatback is reclined forward/backward by changing the rotation direction of reclining motor LH.

Component Function Check

INFOID:0000000001673106

1. CHECK FUNCTION

1. Select “SEAT RECLINING” in “Active test” mode with CONSULT-III.
2. Check the reclining motor LH operation.

Test Item		Description	
SEAT RECLINING	OFF	Seat reclining	Stop
	FR		Forward
	RR		Backward

Is the operation of relevant parts normal?

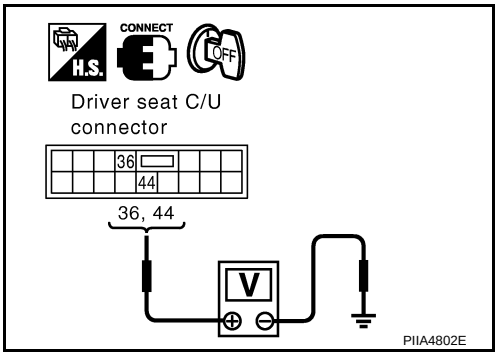
YES >> INSPECTION END
NO >> Perform diagnosis procedure. Refer to ADP-84, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001673107

1. CHECK RECLINING MOTOR LH POWER SUPPLY

1. Turn the ignition switch ACC.
2. Perform “Active test” (“SEAT RECLINING”) with CONSULT-lll
3. Check voltage between driver seat control unit harness connector and ground.



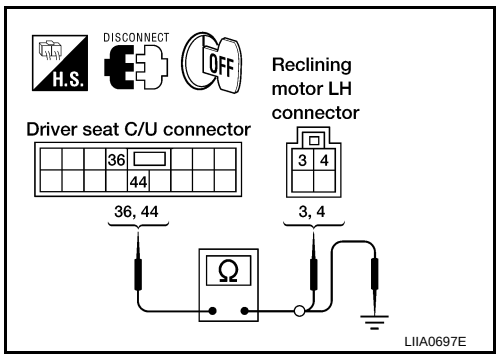
Terminal			Test Item		Voltage (V) (Approx.)
(+)		(-)			
Driver seat control unit connector	Terminal				
B203	36	Ground	SEAT RECLINING	OFF	0
				FR (forward)	Battery voltage
				RR (backward)	0
	44			OFF	0
				FR (forward)	0
				RR (backward)	Battery voltage

Is the inspection result normal?

YES >> Replace reclining motor LH. (Built in seat back frame.)
NO >> GO TO 2

2. CHECK RECLINING MOTOR LH CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect driver seat control unit connector and recling motor LH.
3. Check continuity between driver seat control unit harness connector and reclining motor harness connector.



Driver seat control unit connector	Terminal	Reclining motor LH connector	Terminal	Continuity
B203	36	B205	4	Yes
	44		3	

4. Check continuity between driver seat control unit harness connector and ground.

Driver seat control unit connector	Terminal	Ground	Continuity
B203	36		No
	44		

Is the inspection result normal?

YES >> GO TO 3
NO >> Repair or replace harness.

3. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit.
NO >> Repair or replace the malfunctioning part.

LIFTING MOTOR (FRONT)

Description

INFOID:0000000001673108

- The lifting motor (front) is installed to the seat slide cushion frame.
- The lifting motor (front) is activated with the driver seat control unit.
- The lifter (front) is moved upward/downward by changing the rotation direction of lifting motor (front).

Component Function Check

INFOID:0000000001673109

1. CHECK FUNCTION

1. Select “SEAT LIFTER FR” in “Active test” mode with CONSULT-III.
2. Check the lifting motor (front) operation.

Test Item		Description	
SEAT LIFTER FR	OFF	Seat lifting (front)	Stop
	UP		Upward
	DWN		Downward

Is the operation of relevant parts normal?

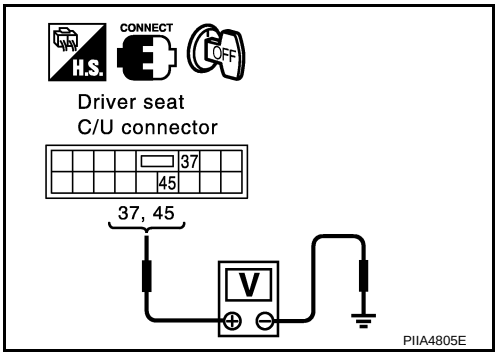
YES >> INSPECTION END
NO >> Perform diagnosis procedure. Refer to ADP-86, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001673110

1. CHECK LIFTING MOTOR (FRONT) POWER SUPPLY

1. Turn the ignition switch ACC.
2. Perform “Active test” (“SEAT LIFTER FR”) with CONSULT-lll.
3. Check voltage between driver seat control unit harness connector and ground.



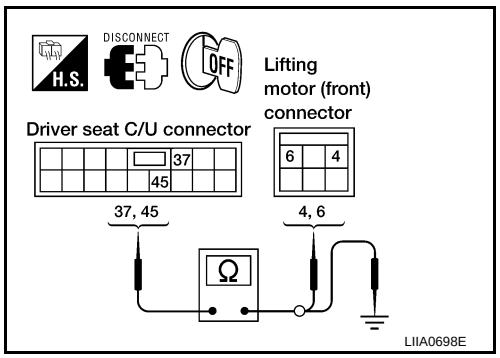
Terminal			Test Item		Voltage (V) (Approx.)
(+)		(-)			
Driver seat control unit connector	Terminal				
B203	37	Ground	SEAT LIFTER FR	OFF	0
				UP	0
				DWN (down)	Battery voltage
	45			OFF	0
				UP	Battery voltage
				DWN (down)	0

Is the inspection result normal?

YES >> Replace lifting motor (front). (Built in seat slide cushion frame.)
NO >> GO TO 2

2. CHECK LIFTING MOTOR (FRONT) CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect driver seat control unit and lifting motor (front) connectors.
3. Check continuity between driver seat control unit harness connector and lifting motor (front) harness connector.



Driver seat control unit connector	Terminal	Lifting motor (front) connector	Terminal	Continuity
B203	37	B206	6	Yes
	45		4	

4. Check continuity between driver seat control unit harness connector and ground.

Driver seat control unit connector	Terminal	Ground	Continuity
B203	37		No
	45		

Is the inspection result normal?

YES >> GO TO 3
NO >> Repair or replace harness.

3. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit.
NO >> Repair or replace the malfunctioning part.

LIFTING MOTOR (REAR)

Description

INFOID:0000000001673111

- The lifting motor (rear) is installed to the seat slide cushion frame.
- The lifting motor (rear) is activated with the driver seat control unit.
- The seat lifter (rear) is moved upward/downward by changing the rotation direction of lifting motor (rear).

Component Function Check

INFOID:0000000001673112

1. CHECK FUNCTION

1. Select “SEAT LIFTER RR” in “Active test” mode with CONSULT-III.
2. Check the lifting motor (rear) operation.

Test Item		Description	
SEAT LIFTER RR	OFF	Seat lifting (rear)	Stop
	UP		Upward
	DWN		Downward

Is the operation of relevant parts normal?

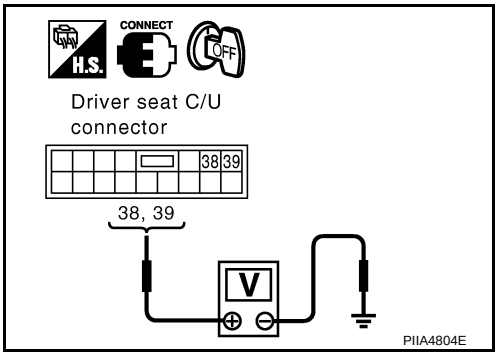
YES >> INSPECTION END
NO >> Perform diagnosis procedure. Refer to ADP-88, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001673113

1. CHECK LIFTING MOTOR (REAR) POWER SUPPLY

1. Turn the ignition switch OFF.
2. Perform “Active test” (“SEAT LIFTER RR”) with CONSULT-lll
3. Check voltage between driver seat control unit harness connector and ground.



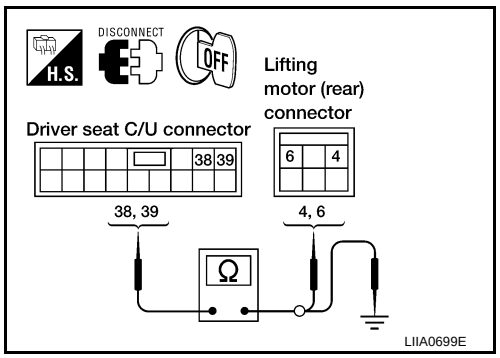
Terminal			Test Item		Voltage (V) (Approx.)
(+)		(-)			
Driver seat control unit connector	Terminal				
B203	38	Ground	SEAT LIFTER RR	OFF	0
				UP	Battery voltage
				DWN (down)	0
	39			OFF	0
				UP	0
				DWN (down)	Battery voltage

Is the inspection result normal?

YES >> Replace lifting motor (rear). (Built in seat slide cushion frame.)
NO >> GO TO 2

2. CHECK LIFTING MOTOR (REAR) CIRCUIT

1. Disconnect driver seat control unit connector and lifting motor (rear).
2. Check continuity between driver seat control unit harness connector and lifting motor (rear) harness connector.



Driver seat control unit connector	Terminal	Lifting motor (rear) connector	Terminal	Continuity
B203	38	B207	6	Yes
	39		4	

3. Check continuity between driver seat control unit harness connector and ground.

Driver seat control unit connector	Terminal	Ground	Continuity
B203	38		No
	39		

Is the inspection result normal?

YES >> GO TO 3
NO >> Repair or replace harness.

3. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit.
NO >> Repair or replace the malfunctioning part.

PEDAL ADJUSTING MOTOR

Description

INFOID:0000000001673114

- The pedal adjusting motor is installed to the pedal assembly.
- The pedal adjusting motor is activated with the automatic drive positioner control unit.
- The pedal assembly is adjusted forward/backward by changing the rotation direction of pedal adjusting motor.

Component Function Check

INFOID:0000000001673115

1. CHECK FUNCTION

1. Select “ADJ PEDAL MOTOR” in “Active test” mode with CONSULT-III.
2. Check the pedal adjusting motor operation.

Test item		Description	
ADJ PEDAL MOTOR	OFF	Pedal adjusting motor	Stop
	FR		Forward
	RR		Backward

Is the operation of relevant parts normal?

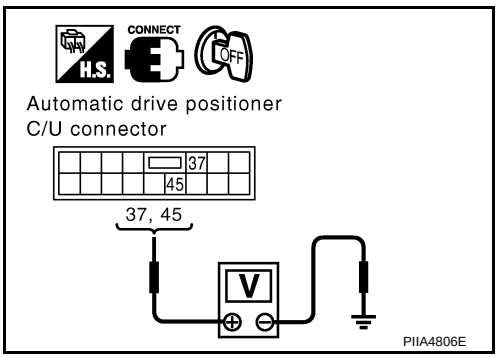
YES >> INSPECTION END
NO >> Perform diagnosis procedure. Refer to ADP-90, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001673116

1. CHECK PEDAL ADJUSTING MOTOR POWER SUPPLY

1. Turn the ignition switch OFF.
2. Perform “Active test” (“ADJ PEDAL MOTOR”) with CONSULT-lll.
3. Check voltage between automatic drive positioner control unit harness connector and ground.



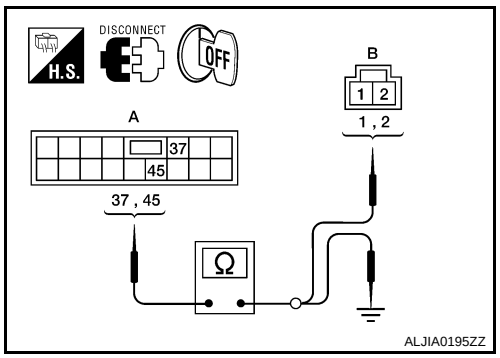
Terminal (+)		Terminal (-)	Test Item		Voltage (V) (Approx.)
Automatic drive positioner control unit connector	Terminal				
M34	37	Ground	ADJ PEDAL MOTOR	OFF	0
				RR (backward)	0
				FR (forward)	Battery voltage
	45			OFF	0
				RR (backward)	Battery voltage
				FR (forward)	0

Is the inspection result normal?

YES >> Replace pedal adjusting motor.
NO >> GO TO 2

2. CHECK PEDAL ADJUSTING MOTOR CIRCUIT

1. Disconnect automatic drive positioner control unit and pedal adjusting motor.
2. Check continuity between automatic drive positioner control unit harness connector and pedal adjusting motor harness connector.



Automatic drive positioner control unit connector	Terminal	Pedal adjusting motor connector	Terminal	Continuity
M34 (A)	37	E109 (B)	1	Yes
	45		2	

3. Check continuity between automatic drive positioner control unit harness connector and ground.

Automatic drive positioner control unit connector	Terminal	Ground	Continuity
M34 (A)	37		No
	45		

Is the inspection result normal?

YES >> GO TO 3
NO >> Repair or replace harness.

3. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit.
NO >> Repair or replace the malfunctioning part.

DOOR MIRROR MOTOR

Description

INFOID:0000000001673117

It makes mirror face operate from side to side and up and down with the electric power that automatic drive positioner control unit supplies.

Component Function Check

INFOID:0000000001673118

1. CHECK DOOR MIRROR MOTOR FUNCTION

Check the operation with “MIRROR MOTOR RH” and “MIRROR MOTOR LH” in “ACTIVE TEST” mode with CONSULT-III
Refer to ADP-24, "CONSULT-III Function".

Is the inspection result normal?

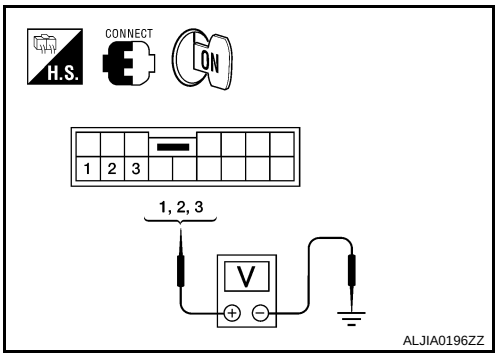
YES >> Door mirror motor function is OK.
NO >> Refer to ADP-92, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001673119

1. CHECK DOOR MIRROR MOTOR INPUT SIGNAL

1. Turn ignition switch ON.
2. Check voltage between door mirror connector and ground.



Terminals			Door mirror remote control switch condition	Voltage (V) (Approx.)
(+)		(–)		
Door mirror connector	Terminal			
D4 (LH) D107 (RH)	1	Ground	UP	Battery voltage
			Other than above	0
	2		LEFT	Battery voltage
			Other than above	0
	3		DOWN / RIGHT	Battery voltage
			Other than above	0

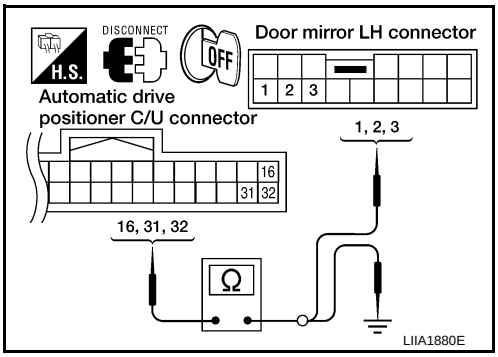
Is the inspection result normal?

YES >> Refer to ADP-94, "Component Inspection".
NO >> GO TO 2

2. CHECK HARNESS CONTINUITY

1. Turn ignition switch OFF.
2. Disconnect automatic drive positioner control unit connector and door mirror.
3. Check continuity between automatic drive positioner control unit connector and door mirror connector.

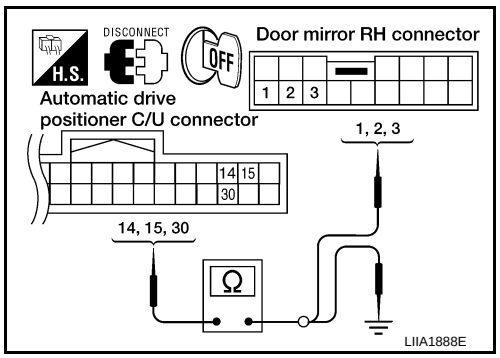
Door mirror LH



Automatic drive positioner control unit connector	Terminal	Door mirror LH connector	Terminal	Continuity
M33	16	D4	3	Yes
	31		1	
	32		2	

Door mirror RH

Automatic drive positioner control unit connector	Terminal	Door mirror RH connector	Terminal	Continuity
M33	14	D107	1	Yes
	15		2	
	30		3	



4. Check continuity between automatic drive positioner control unit connector and ground.

Door mirror LH

Automatic drive positioner control unit connector	Terminal	Ground	Continuity
M33	16		No
	31		
	32		

Door mirror RH

Automatic drive positioner control unit connector	Terminal	Ground	Continuity
M33	14		No
	15		
	30		

Is the inspection result normal?

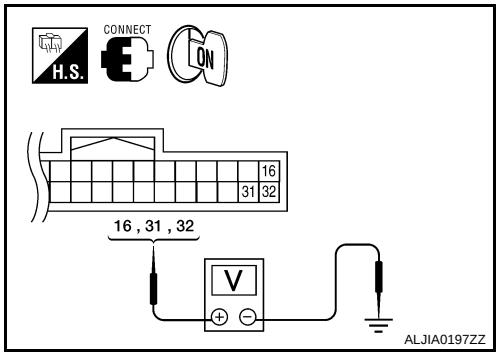
YES >> GO TO 3
NO >> Repair or replace harness.

3. CHECK AUTOMATIC DRIVE POSITIONER CONTROL UNIT OUTPUT SIGNAL

1. Connect automatic drive positioner control unit.
2. Turn ignition switch ON.
3. Check voltage between automatic drive positioner control unit connector and ground.

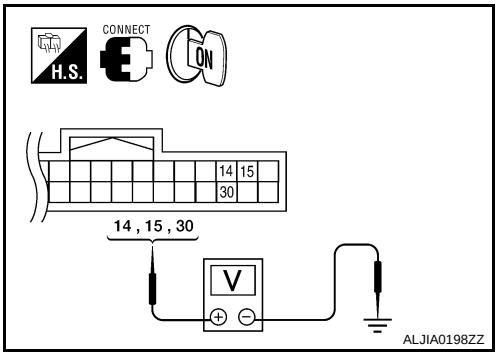
Door mirror LH

Terminals (+) Automatic drive positioner control unit connector	Terminals (+) Terminal	Terminals (-)	Mirror switch condition	Voltage (V) (Approx.)
M33	16	Ground	DOWN / RIGHT	Battery voltage
			Other than above	0
	31		UP	Battery voltage
			Other than above	0
	32		LEFT	Battery voltage
			Other than above	0



Door mirror RH

Terminals			Mirror switch condition	Voltage (V) (Approx.)
(+)		(-)		
Automatic drive positioner control unit connector	Terminal			
M33	14	Ground	UP	Battery voltage
			Other than above	0
	15		LEFT	Battery voltage
			Other than above	0
	30		DOWN / RIGHT	Battery voltage
			Other than above	0



Is the inspection result normal?

YES >> GO TO 4
NO >> Replace automatic drive positioner control unit.

4. CHECK DOOR MIRROR MOTOR

Check door mirror motor.
Refer to ADP-94, "Component Inspection".

Is the inspection result normal?

YES >> Refer to GI-41, "Intermittent Incident".
NO >> Replace door mirror. Refer to MIR-23, "Door Mirror Assembly".

Component Inspection

INFOID:0000000001673120

1. CHECK DOOR MIRROR MOTOR-I

Check that door mirror motor does not trap foreign objects and does not have any damage.
Refer to MIR-23, "Door Mirror Assembly".

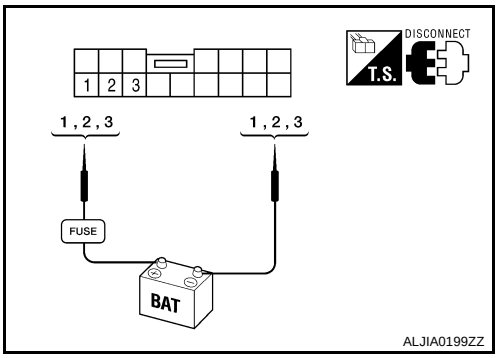
Is the inspection result normal?

YES >> GO TO 2
NO >> Replace door mirror.Refer to MIR-23, "Door Mirror Assembly".

2. CHECK DOOR MIRROR MOTOR-II

1. Turn ignition switch OFF.
2. Disconnect door mirror.
3. Apply 12V to each power supply terminal of door mirror motor.

Door mirror connector	Terminal		Operational direction
	(+)	(–)	
D4 (LH) D107 (RH)	3	2	RIGHT
	2	3	LEFT
	1	3	UP
	3	1	DOWN



Is the inspection result normal?

YES >> INSPECTION END.
NO >> Replace door mirror. Refer to MIR-23, "Door Mirror Assembly".

SEAT MEMORY INDICATOR LAMP

Description

INFOID:0000000001673121

- Memory switch is equipped on the seat memory switch installed to the driver side door trim. The operation signal is inputted to the automatic drive positioner control unit when the memory switch is operated.
- The status of automatic drive positioner system can be checked according to the illuminating/flashing status.

Component Function Check

INFOID:0000000001673122

1. CHECK FUNCTION

1. Select “MEMORY SW INDCTR” in “Active test” mode with CONSULT-III.
2. Check the memory indicator operation.

Test item		Description	
MEMORY SW INDCTR	OFF	Memory switch indicator	OFF
	ON-1		Indicator 1: ON
	ON-2		Indicator 2: ON

Is the operation of relevant parts normal?

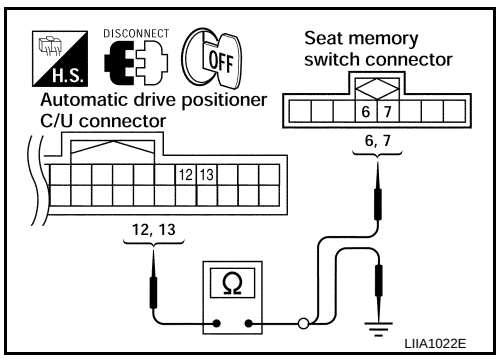
YES >> INSPECTION END
NO >> Perform diagnosis procedure. Refer to ADP-95, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000001673123

1. CHECK SEAT MEMORY INDICATOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect automatic drive positioner control unit and seat memory switch.
3. Check continuity between automatic drive positioner control unit harness connector and seat memory switch harness connector.



Automatic drive positioner control unit connector	Terminal	Seat memory switch connector	Terminal	Continuity
M33	12	D5	6	Yes
	13		7	

4. Check continuity between automatic drive positioner control unit harness connector and ground.

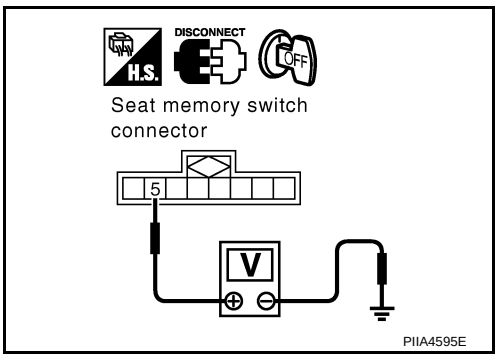
Automatic drive positioner connector	Terminal	Ground	Continuity
M33	12		No
	13		

Is the inspection result normal?

YES >> GO TO 2
NO >> Repair or replace harness.

2. CHECK MEMORY INDICATOR POWER SUPPLY

Check voltage between seat memory switch harness connector and ground.



Seat memory switch connector	Terminals		Voltage (V) (Approx.)
	(+)	(–)	
D5	5	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 3
NO >> Check the following.
- Fuse
- Harness for open or short between memory indicator and fuse.

3. CHECK MEMORY INDICATOR

Refer to ADP-96, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4
NO >> Replace seat memory switch.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

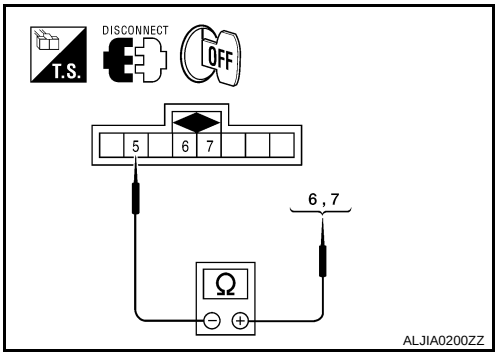
YES >> Replace automatic drive positioner control unit.
NO >> Repair or replace the malfunctioning part.

Component Inspection

INFOID:0000000001673124

1. CHECK SEAT MEMORY INDICATOR

1. Disconnect seat memory switch.
2. Check continuity between seat memory switch terminals.



Terminal		Continuity
Seat memory switch		
(+)	(-)	
6	5	Yes
7		

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace seat memory switch.

ECU DIAGNOSIS

DRIVER SEAT CONTROL UNIT

Reference Value

INFOID:0000000001673125

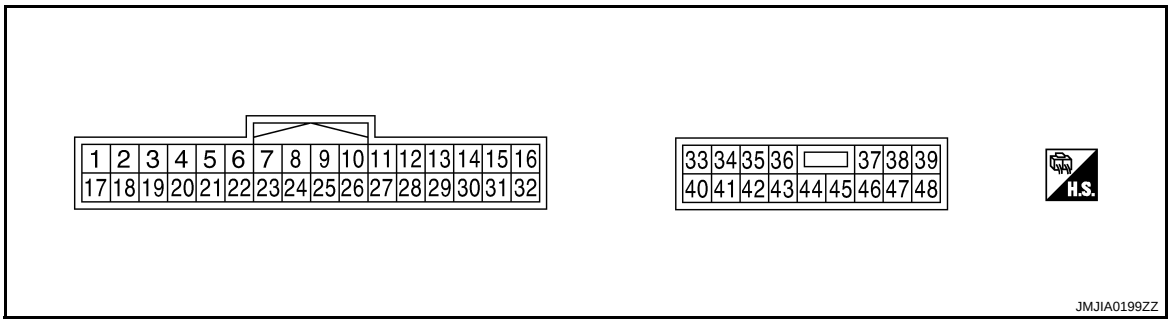
VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

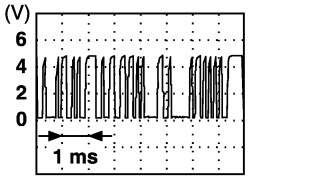
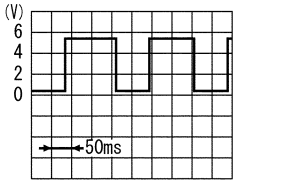
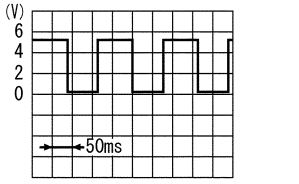
Monitor Item	Condition		Value/Status
SET SW	Set switch	Push	ON
		Release	OFF
MEMORY SW1	Memory switch 1	Push	ON
		Release	OFF
MEMORY SW2	Memory switch 2	Push	ON
		Release	OFF
SLIDE SW–FR	Sliding switch (front)	Operate	ON
		Release	OFF
SLIDE SW–RR	Sliding switch (rear)	Operate	ON
		Release	OFF
RECLN SW–FR	Reclining switch (front)	Operate	ON
		Release	OFF
RECLN SW–RR	Reclining switch (rear)	Operate	ON
		Release	OFF
LIFT FR SW–UP	Lifting switch front (up)	Operate	ON
		Release	OFF
LIFT FR SW–DN	Lifting switch front (down)	Operate	ON
		Release	OFF
LIFT RR SW–UP	Lifting switch rear (up)	Operate	ON
		Release	OFF
LIFT RR SW–DN	Lifting switch rear (down)	Operate	ON
		Release	OFF
MIR CON SW–UP	Mirror switch	Up	ON
		Other than above	OFF
MIR CON SW–DN	Mirror switch	Down	ON
		Other than above	OFF
MIR CON SW–RH	Mirror switch	Right	ON
		Other than above	OFF
MIR CON SW–LH	Mirror switch	Left	ON
		Other than above	OFF
MIR CHNG SW–R	Changeover switch	Right	ON
		Other than above	OFF
MIR CHNG SW–L	Changeover switch	Left	ON
		Other than above	OFF
PEDAL SW-FR	Pedal adjusting switch	Forward	ON
		Other than above	OFF
PEDAL SW-RR	Pedal adjusting switch	Backward	ON
		Other than above	OFF

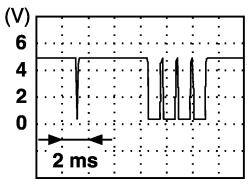
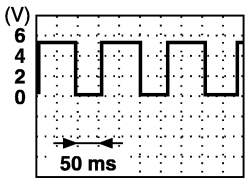
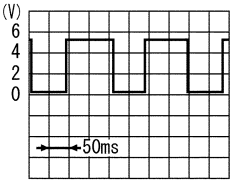
Monitor Item	Condition		Value/Status
DETENT SW	AT selector lever	P position	OFF
		Other than above	ON
STARTER SW	Ignition position	Cranking	ON
		Other than above	OFF
SLIDE PULSE	Seat sliding	Forward	The numeral value decreases
		Backward	The numeral value increases
		Other than above	No change to numeral value
RECLN PULSE	Seat reclining	Forward	The numeral value decreases
		Backward	The numeral value increases
		Other than above	No change to numeral value
LIFT FR PULSE	Seat lifter (front)	Up	The numeral value decreases
		Down	The numeral value increases
		Other than above	No change to numeral value
LIFT RR PULSE	Seat lifter (rear)	Up	The numeral value decreases
		Down	The numeral value increases
		Other than above	No change to numeral value
MIR/SEN RH U–D	Door mirror (passenger side)	Close to peak	3.4
		Close to valley	0.6
MIR/SEN RH R–L	Door mirror (passenger side)	Close to left edge	3.4
		Close to right edge	0.6
MIR/SEN LH U–D	Door mirror (driver side)	Close to peak	3.4
		Close to valley	0.6
MIR/SEN LH R–L	Door mirror (driver side)	Close to left edge	0.6
		Close to right edge	3.4
PEDAL SEN	pedal position	Forward	0.5
		Backward	4.5

TERMINAL LAYOUT



PHYSICAL VALUES

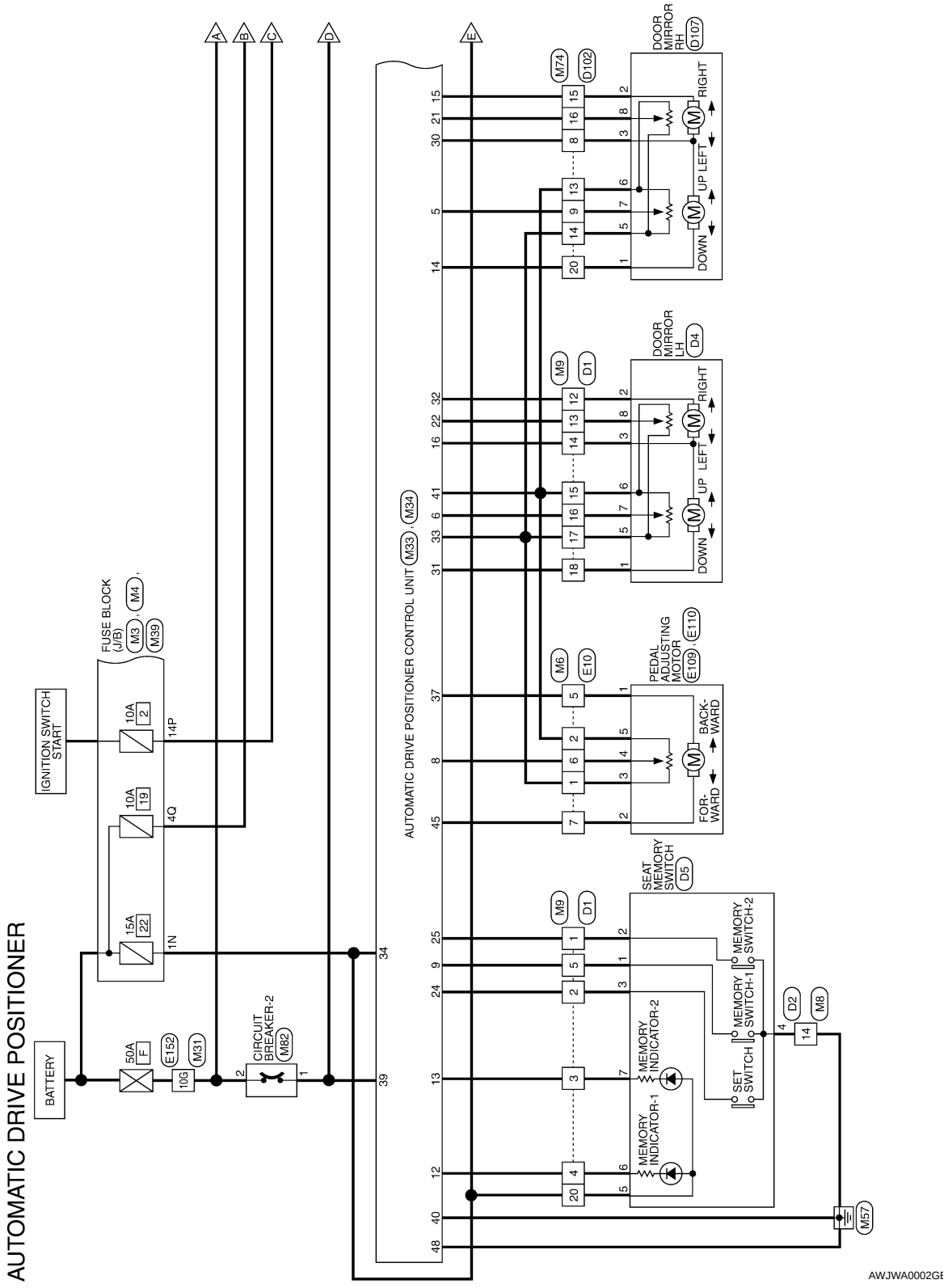
Terminal No. +	Terminal No. -	Wire color	Description: Signal name	Description: Input/ Output	Condition		Voltage (V) (Approx)
1	Ground	L	UART LINE (RX)	Input	Ignition switch ON		 PIIA4813E
3	—	L	CAN-H	—	—		—
6	Ground	O	Ignition switch (START)I	Input	Ignition switch	OFF	0
						START	Battery voltage
9	Ground	L/R	Reclining sensor signal	Input	Seat reclining	Operate	 SIIA0692J
						Stop	0 or 5
10	Ground	W	Lifting sensor (rear) signal	Input	Seat lifting (rear)	Operate	 SIIA0693J
						Stop	0 or 5
11	Ground	R/B	Sliding switch backward signal	Input	Sliding switch	Operate (backward)	0
						Release	Battery voltage
12	Ground	O/B	Reclining switch backward signal	Input	Reclining switch	Operate (backward)	0
						Release	Battery voltage
13	Ground	L/B	Lifting switch (front) down signal	Input	Lifting switch (front)	Operate (down)	0
						Release	Battery voltage
14	Ground	G/W	Lifting switch (rear) down signal	Input	Lifting switch (rear)	Operate (down)	0
						Release	Battery voltage
15	Ground	L/Y	Pedal switch backward signal	Input	Pedal switch	Operate (backward)	0
						Release	Battery voltage
16	Ground	W	Sensor power supply	Output	—		5

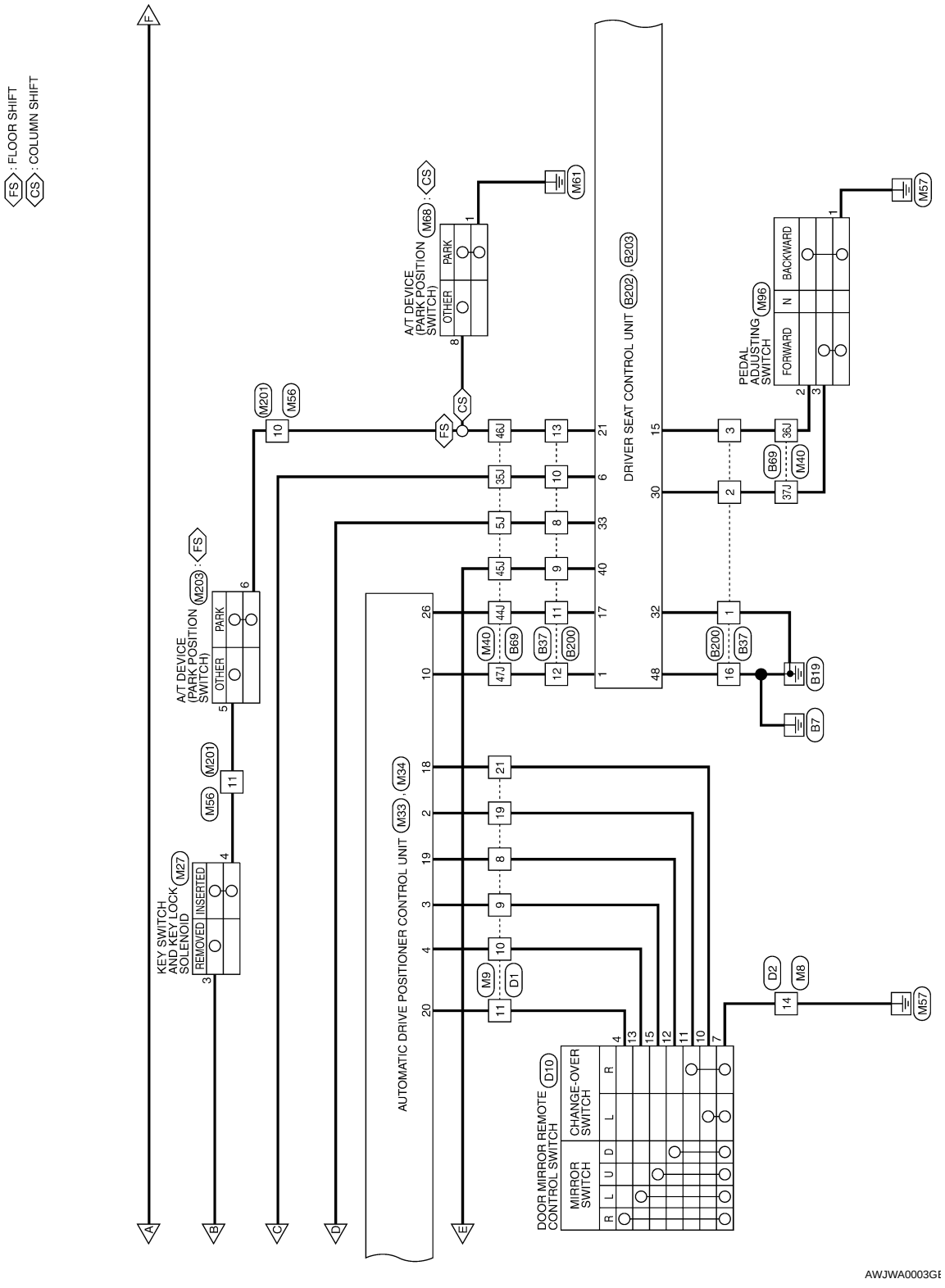
Terminal No.		Wire color	Description		Condition		Voltage (V) (Approx)
+	-		Signal name	Input/ Output			
17	Ground	W	UART LINE (TX)	Output	Ignition switch ON		 PIIA4814E
19	—	P	CAN-L	—	—		—
21	Ground	L/R	A/T device (park position switch)	Input	A/T selector lever	P position	0
						Except P position	Battery voltage
24	Ground	Y/G	Sliding sensor signal	Input	Seat sliding	Operate	 PIIA3277E
						Stop	0 or 5
25	Ground	LG	Lifting sensor (front) signal	Input	Seat lifting (front)	Operate	 SIIA0691J
						Stop	0 or 5
26	Ground	P/B	Sliding switch forward signal	Input	Sliding switch	Operate (forward)	0
						Release	Battery voltage
27	Ground	G/B	Reclining switch forward signal	Input	Reclining switch	Operate (forward)	0
						Release	Battery voltage
28	Ground	Y/B	Lifting switch (front) up signal	Input	Seat lifting switch (front)	Operate (up)	0
						Release	Battery voltage
29	Ground	R/W	Lifting switch (rear) up signal	Input	Seat lifting switch (rear)	Operate (up)	0
						Release	Battery voltage
30	Ground	R	Pedal switch forward signal	Input	Pedal switch	Operate (forward)	0
						Release	Battery voltage
31	Ground	L/Y	Sensor ground	—	—		0
32	Ground	B	Ground (signal)	—	—		0
33	Ground	L/B	Battery power supply	Input	—		Battery voltage

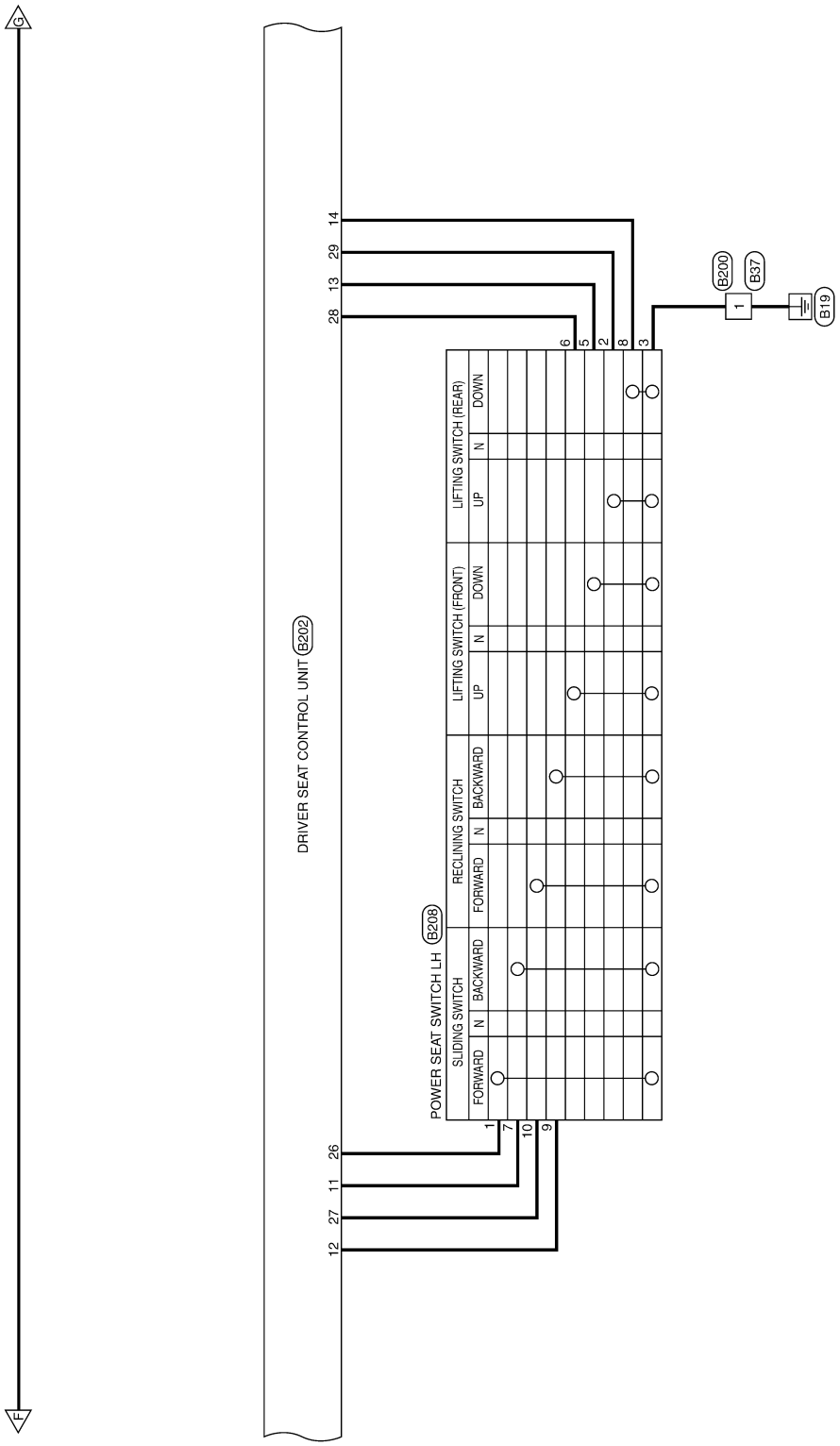
Terminal No.		Wire color	Description		Condition		Voltage (V) (Approx)
+	-		Signal name	Input/ Output			
35	Ground	V/W	Sliding motor forward output signal	Output	Seat sliding	Operate (forward)	Battery voltage
						Release	0
36	Ground	Y/G	Reclining motor forward output signal	Output	Seat reclining	Operate (forward)	Battery voltage
						Release	0
37	Ground	BR	Lifting motor (front) down output signal	Output	Seat lifting (front)	Operate (down)	Battery voltage
						Stop	0
38	Ground	B/W	Lifting motor (rear) up output signal	Output	Seat lifting (rear)	Operate (up)	Battery voltage
						Stop	0
39	Ground	Y	Lifting motor (rear) down output signal	Output	Seat lifting (rear)	Operate (down)	Battery voltage
						Stop	0
40	Ground	Y/R	Battery power supply	Input	—		Battery voltage
42	Ground	O/B	Sliding motor backward output signal	Output	Seat sliding	Operate (backward)	Battery voltage
						Stop	0
44	Ground	Y/R	Reclining motor backward output signal	Output	Seat reclining	Operate (backward)	Battery voltage
						Stop	0
45	Ground	GR	Lifting motor (front) up output signal	Output	Seat lifting (front)	Operate (up)	Battery voltage
						Stop	0
48	Ground	B/W	Ground (power)	—	—		0

Wiring Diagram

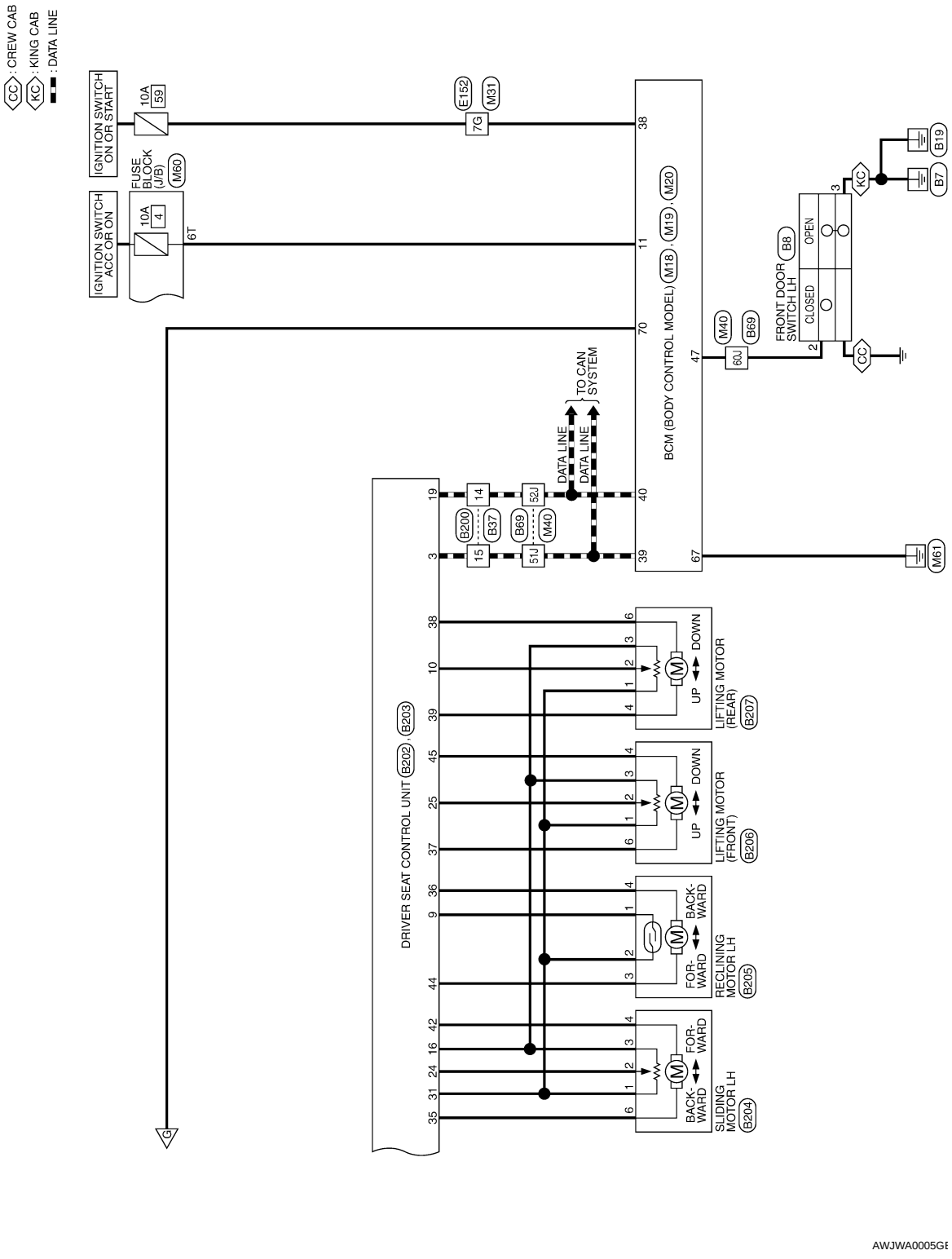
INFOID:0000000001673126




FS : FLOOR SHIFT
CS : COLUMN SHIFT
DRIVER SEAT CONTROL UNIT (B202), (B203)
A/T DEVICE (PARK POSITION SWITCH) (M68) : CS
A/T DEVICE (PARK POSITION SWITCH) (M203) : FS
PEDAL ADJUSTING SWITCH (M96)
KEY SWITCH AND KEY LOCK SOLENOID (M27)
AUTOMATIC DRIVE POSITIONER CONTROL UNIT (M33), (M34)
DOOR MIRROR REMOTE CONTROL SWITCH (D10)
MIRROR SWITCH
CHANGE-OVER SWITCH
AWJWA0003GE



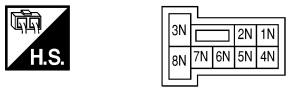
AWJWA0004GE



AWJWA0005GE

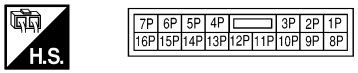
AUTOMATIC DRIVE POSITIONER CONNECTORS

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



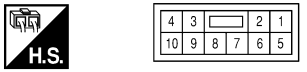
Terminal No.	Color of Wire	Signal Name
1N	Y/R	–

Connector No.	M4
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



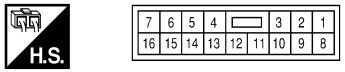
Terminal No.	Color of Wire	Signal Name
14P	O	AUTO_DRPO

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Color	WHITE



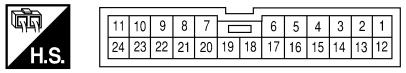
Terminal No.	Color of Wire	Signal Name
1	W/L	–
2	W/G	–
5	G	–
6	BR/Y	–
7	R	–

Connector No.	M8
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
14	B	–

Connector No.	M9
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	P/L	–
2	G/O	–
3	Y/G	–
4	P	–
5	LG/B	–

Terminal No.	Color of Wire	Signal Name
8	SB	–
9	Y/B	–
10	V/W	–
11	GR	–
12	B/R	–
13	G	–
14	O	–
15	W/G	–
16	L/Y	–
17	W/L	–
18	R	–
19	LG	–
20	Y/R	–
21	BR/W	–

ALJIA0106GB

Connector No.	M12
Connector Name	KEY SWITCH AND IGNITION KNOB SWITCH
Connector Color	GRAY

H.S.

1 2 3 4 5 6

Terminal No.	Color of Wire	Signal Name
3	Y	–
4	B/R	–

Connector No.	M18
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE

H.S.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

Terminal No.	Color of Wire	Signal Name
11	O	ACC SW
38	W/L	IGN SW
39	L	CAN-H
40	P	CAN-L

Connector No.	M19
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE

H.S.

41 42 43 44 45 46 47 48 49
50 51 52 53 54 55

Terminal No.	Color of Wire	Signal Name
47	SB	DOOR SW (DR)

Connector No.	M31
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
7G	W/L	–
10G	W/B	–

Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	BLACK

H.S.

56 57 58 59 60 61 62 63 64
65 66 67 68 69 70

Terminal No.	Color of Wire	Signal Name
67	B	GND (POWER)

ALJIA0107GB

Connector No.	M33
Connector Name	AUTOMATIC DRIVE POSITION CONTROL UNIT
Connector Color	WHITE

H.S.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

Terminal No.	Color of Wire	Signal Name
2	LG	MIR_SELECT_SW_RH
3	Y/B	MIR_MANU_SW_UP
4	V/W	MIR_MANU_SW_LH
5	R/B	VERTICAL_SENS_RH
6	L/Y	VERTICAL_SENS_LH
8	BR/Y	PEDAL_POTENTION
9	LG/B	MEMORY1_SW

Terminal No.	Color of Wire	Signal Name
10	L	TX
12	P	MEMORY1_IND
13	Y/G	MEMORY2_IND
14	GR/R	RH_MTR_(UP-DN)
15	V/R	RH_MTR(LT)
16	O	LH_MTR_(COM)
18	BR/W	MIR_SELECT_SW_LH
19	SB	MIR_MANU_SW_DN
20	GR	MIR_MANU_SW_LH
21	L/W	HORIZONTAL_SENS
22	G	HORIZONTAL_SENS
24	G/O	SET_SW
25	P/L	MEMORY2_SW
26	W	RX
30	Y	RH_MTR_(COM)
31	R	LH_MTR_(UP-DWN)
32	BR	LH_MTR_(LT)

Connector No.	M34
Connector Name	AUTOMATIC DRIVE POSITION CONTROL UNIT
Connector Color	WHITE

H.S.

33	34	35	36		37	38	39
40	41	42	43	44	45	46	47	48

Terminal No.	Color of Wire	Signal Name
33	W/L	MEMORY(POT_FEED)
34	Y/R	BAT_(FUSE)
37	G	FORWARD
39	L/B	BAT(PTC)
40	B/W	GND(SIG)
41	W/G	MEMORY(POT_RET)
45	R	PEDAL_POTENTION
48	B	GND(POWER)

Terminal No.	Color of Wire	Signal Name
5J	L/B	–
35J	O	–
36J	L/Y	–
37J	R	–
44J	W	–
45J	Y/R	–
46J	L/R	–
47J	L	–
51J	L	–
52J	P	–
60J	SB	–

Connector No.	M39
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE

H.S.

3Q		2Q	1Q
8Q	7Q	6Q	5Q	4Q

Terminal No.	Color of Wire	Signal Name
4Q	Y/R	–

Connector No.	M40
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

ALJIA0108GB

Connector No.	M74
Connector Name	WIRE TO WIRE
Connector Color	BROWN

H.S.

9	8	7	6		5	4	3	2	1
20	19	18	17	16	15	14	13	12	11	10

Terminal No.	Color of Wire	Signal Name
8	Y	–
9	R/B	–
13	W/G	–
14	W/L	–
15	V/R	–
16	L/W	–
20	GR/R	–

Connector No.	M60
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE

H.S.

2T		1T
6T	5T	4T	3T

Terminal No.	Color of Wire	Signal Name
6T	O	–

Connector No.	M56
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

1	2	3		4	5	6	7
8	9	10	11	12	13	14	15	16

Terminal No.	Color of Wire	Signal Name
10	L/R	–
11	B/R	–

Connector No.	M201
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

7	6	5	4		3	2	1
16	15	14	13	12	11	10	9	8

Terminal No.	Color of Wire	Signal Name
10	L/R	–
11	R/B	–

Connector No.	M96
Connector Name	PEDAL ADJUSTING SWITCH
Connector Color	BROWN

H.S.

5		6
4	2	1	3

Terminal No.	Color of Wire	Signal Name
1	W/R	–
2	SB	–
3	V	–

Connector No.	M82
Connector Name	CIRCUIT BREAKER-2
Connector Color	GRAY

H.S.

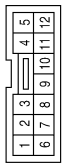
1
2

Terminal No.	Color of Wire	Signal Name
1	L/B	–
2	W/B	–

ALJIA0109GB

Connector No.	M203
Connector Name	A/T DEVICE
Connector Color	WHITE

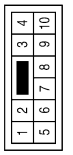
H.S.



Terminal No.	Color of Wire	Signal Name
5	R/B	–
6	L/R	–

Connector No.	E10
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	W/L	–
2	W/G	–
5	G	–
6	BR/Y	–
7	R	–

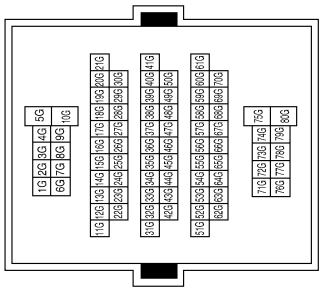
Connector No.	E109
Connector Name	PEDAL ADJUSTING MOTOR
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	G	–
2	R	–

Connector No.	E152
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
7G	L/W	–
10G	W/B	–

Connector No.	E110
Connector Name	PEDAL ADJUSTING SENSOR
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
3	W/L	–
4	BR/Y	–
5	W/G	–

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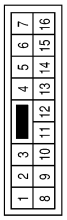
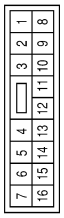
Terminal No.	Color of Wire	Signal Name
8	L/B	–
9	Y/R	–
10	O	–
11	W	–
12	L	–
13	L/R	–
14	P	–
15	L	–
16	B/W	–

Connector No.	B200
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Connector No.	B37
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	L/B	–
2	B/W	–
3	L/Y	–

Terminal No.	Color of Wire	Signal Name
5J	L/B	–
35J	O	–
36J	L/Y	–
37J	R	–
44J	W	–
45J	Y/R	–
46J	L/R	–
47J	L	–
51J	L	–
52J	P	–
60J	SB	–

Connector No.	B8
Connector Name	FRONT DOOR SWITCH LH
Connector Color	WHITE

Terminal No.	Color of Wire	Signal Name
2	SB	–

Connector No.	B69
Connector Name	WIRE TO WIRE
Connector Color	WHITE

Terminal No.	Color of Wire	Signal Name
1	L/B	–
2	B/W	–
3	L/Y	–
8	Y/R	–
9	Y/R	–
10	O	–
11	W	–
12	L	–
13	L/R	–
14	P	–
15	L	–
16	B/W	

ALJIA0111GB

Connector No.	B202
Connector Name	DRIVER SEAT CONTROL UNIT
Connector Color	WHITE

H.S.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

Terminal No.	Color of Wire	Signal Name
1	L	RX
3	L	CAN-H
6	O	ST_SW
9	L/R	RECLINING MOTOR SENSOR
10	W	REAR LIFTING MOTOR SENSOR
11	R/B	SLIDE(RR)
12	O/B	RECLINE(RR)
13	L/B	FRONT LIFT(DOWN)
14	G/W	REAR LIFT(DOWN)
15	L/Y	PEDAL_BACK
16	W	POWER SUPPLY (SENSOR)
17	W	TX
19	P	CAN-L
21	L/R	P_RANGE_SW
24	Y/G	SLIDING MOTOR SENSOR
25	LG	FRONT LIFTING MOTOR SENSOR
26	P/B	SLIDE(FR)
27	G/B	RECLINE(FR)
28	Y/B	FRONT LIFT(UP)
29	R/W	REAR LIFT(UP)
30	R	PEDAL_FORWARD
31	L/Y	GND (SENSOR)
32	B	GND

Connector No.	B203
Connector Name	DRIVER SEAT CONTROL UNIT
Connector Color	WHITE

H.S.

33	34	35	36		37	38	39
40	41	42	43	44	45	46	47	48

Terminal No.	Color of Wire	Signal Name
33	L/B	BAT(PTC)
35	V/W	SLIDING MOTOR(FR)
36	Y/G	RECLINING MOTOR (FR)
37	BR	FRONT LIFTING MOTOR(DOWN)
38	B/W	REAR LIFTING MOTOR (UP)
39	Y	REAR LIFTING MOTOR (DOWN)
40	Y/R	BAT (FUSE)
42	O/B	SLIDING MOTOR(RR)
44	Y/R	RECLINING MOTOR (RR)
45	GR	FRONT LIFTING MOTOR (UP)
48	B/W	GND (POWER)

Connector No.	B204
Connector Name	SLIDING MOTOR LH
Connector Color	WHITE

H.S.

6		4
3	2	1

Terminal No.	Color of Wire	Signal Name
1	L/Y	–
2	Y/G	–
3	W	–
4	O/B	–
6	V/W	–

ALJIA0112GB

Connector No.	B205
Connector Name	RECLINING MOTOR LH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	L/R	–
2	L/Y	–
3	Y/R	–
4	Y/G	–

Connector No.	B206
Connector Name	LIFTING MOTOR (FRONT)
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	L/Y	–
2	LG	–
3	W	–
4	GR	–
6	BR	–

Connector No.	B207
Connector Name	LIFTING MOTOR (REAR)
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	L/Y	–
2	W	–
3	W	–
4	Y	–
6	B/W	–

Connector No.	B208
Connector Name	POWER SEAT SWITCH LH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	P/B	–
2	R/W	–
3	B	–
5	L/B	–
6	Y/B	–
7	R/B	–
8	G/W	–
9	O/B	–
10	G/B	–

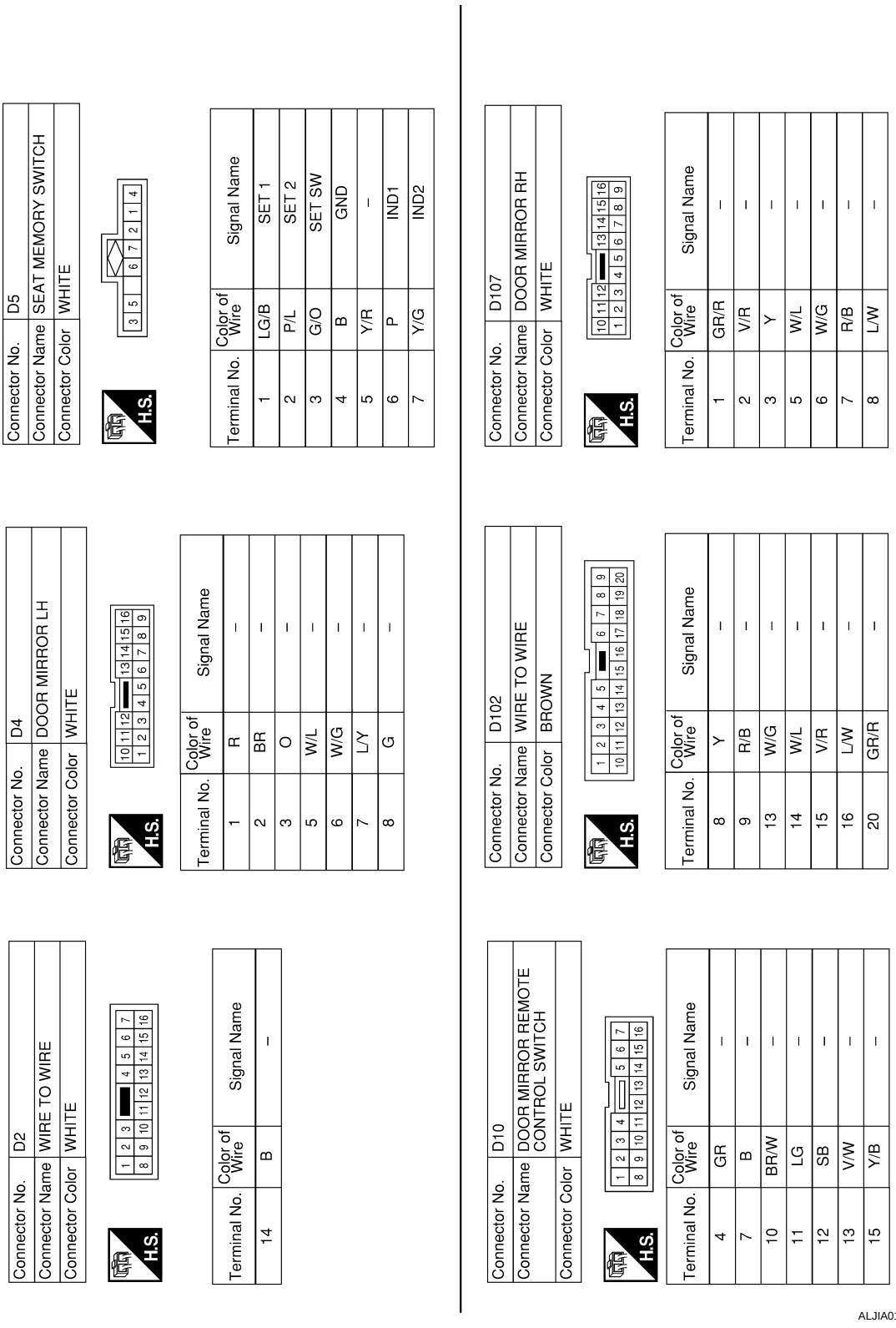
Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	R/G	–
2	G/O	–
3	Y/G	–
4	P	–
5	LG/B	–
8	SB	–

Terminal No.	Color of Wire	Signal Name
9	Y/B	–
10	V/W	–
11	GR	–
12	BR	–
13	G	–
14	O	–
15	W/G	–
16	L/Y	–
17	W/L	–
18	R	–
19	LG	–
20	Y/R	–
21	BR/W	–

ALJIA0166GB



ALJIA0167GB

Fail Safe

INFOID:0000000001673127

The fail-safe mode may be activated if the following symptoms are observed.

FAIL-SAFE MODE

When any manual and automatic operations are not performed, if any motor operations of front seat LH or pedals are detected for T2 or more, status is judged “Output error”.

OPERATED PORTION	T2
Seat sliding	Approx. 0.1 sec.
Seat reclining	Same as above
Seat lifting (Front)	Same as above
Seat lifting (Rear)	Same as above
Pedal adjust	Same as above

NOTE:
The front seat LH position and pedal adjustment functions (see the following table) operate simultaneously in the order of priority.

Priority	Function	Priority	Function
1	Seat sliding, (door mirror LH/RH)*	4	Seat lifter-FR
2	Pedal	5	Seat lifter-RR
3	Seat reclining		

*: In conjunction with sliding the seat, the door mirrors are positioned.

CANCEL OF FAIL-SAFE MODE

The mode is cancelled when the A/T selector lever is shifted to P position from any other position.

DTC Index

INFOID:0000000001673128

CONSULT-III display	Timing*1		Item	Reference page
	Current malfunction	Previous malfunction		
CAN COMM CIRCUIT [U1000]	0	1-39	CAN communication	ADP-27
SEAT SLIDE [B2112]	0	1-39	Seat slide motor output	ADP-28
SEAT RECLINING [B2113]	0	1-39	Seat reclining motor output	ADP-29
SEAT LIFTER FRONT [B2114]	0	1-39	Seat lifting motor front output	ADP-32
SEAT LIFTER REAR [B2115]	0	1-39	Seat lifting motor rear output	ADP-32
ADJ PEDAL MOTOR [B2117]	0	1-39	Pedal adjusting motor output	ADP-32
ADJ PEDAL SENSOR [B2120]	0	1-39	Pedal adjusting sensor input	ADP-34
DETENT SW [B2126]	0	1-39	Park position switch condition	ADP-36
UART COMM [B2128]	0	1-39	UART communication	ADP-39

*1:

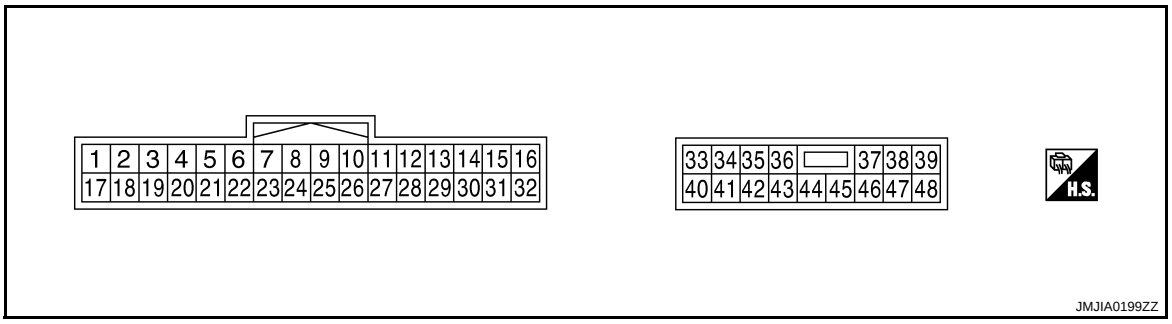
- 0: Current malfunction is present
- 1-39: Displayed if any previous malfunction is present when current condition is normal. The numeral value increases by one at each IGN ON to OFF cycle from 1 to 39. The counter remains at 39 even if the number of cycles exceeds it. However, the counter is reset to 1 if any malfunction is detected again, the normal operation is resumed and the ignition switch is turned from OFF to ON.

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

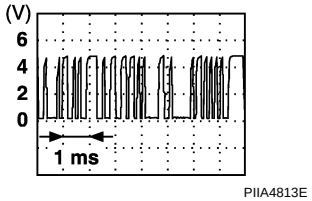
Reference Value

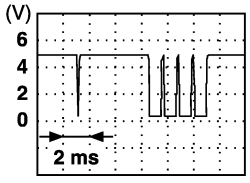
INFOID:0000000001673129

TERMINAL LAYOUT



PHYSICAL VALUES

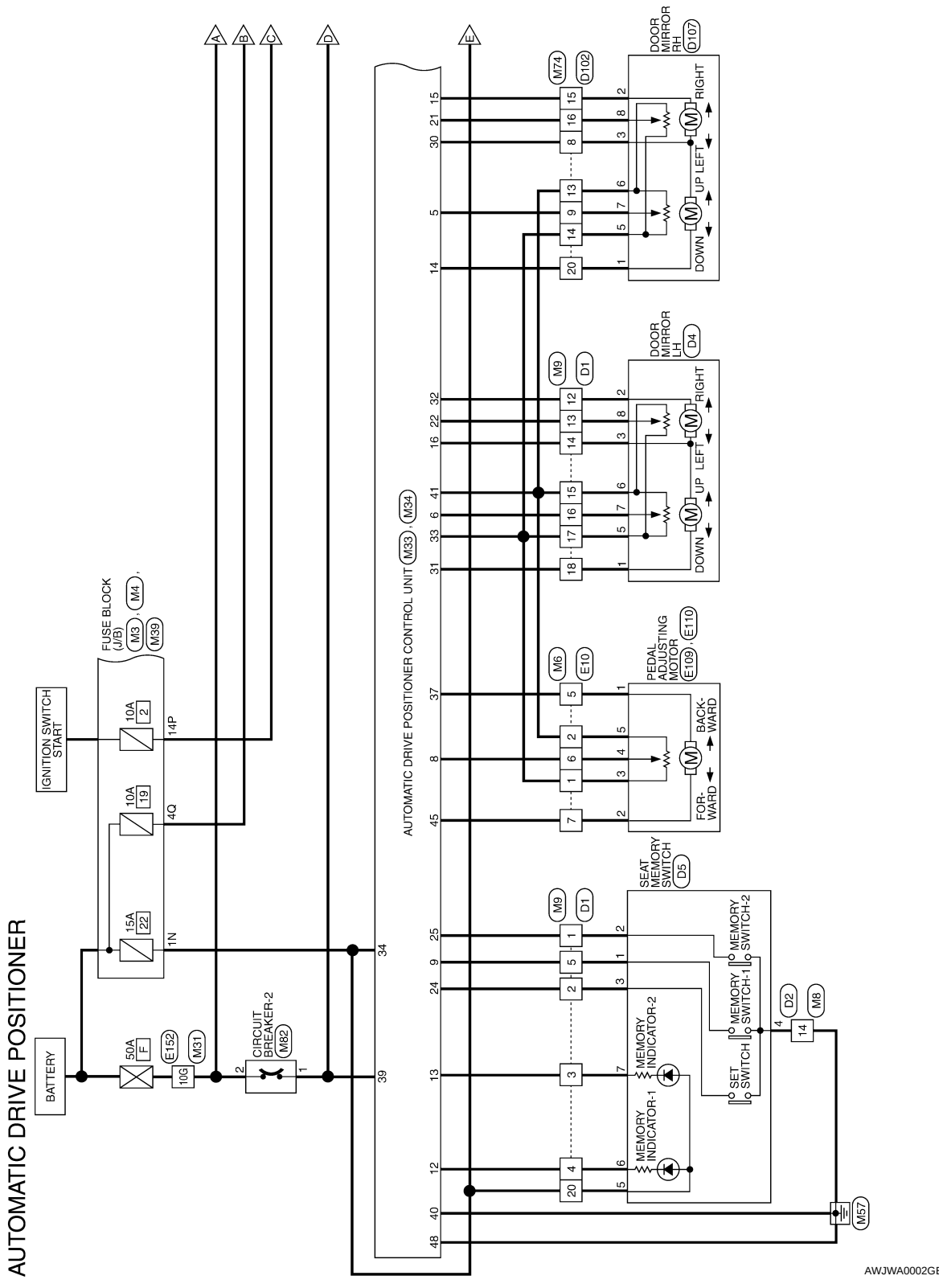
Terminal No.		Wire color	Description		Condition		Voltage (V) (Approx.)
+	-		Signal name	Input/ Output			
2	Ground	LG	Changeover switch RH signal	Input	Changeover switch position	RH	0
						Neutral or LH	5
3	Ground	Y/B	Mirror switch up signal	Input	Mirror switch	Operated (up)	0
						Other than above	5
4	Ground	V/W	Mirror switch left signal	Input	Mirror switch	Operated (left)	0
						Other than above	5
5	Ground	R/B	Door mirror sensor (RH) up/down signal	Input	Door mirror RH position	Peak	3.4
						Valley	0.6
6	Ground	L/Y	Door mirror sensor (LH) up/down signal	Input	Door mirror LH position	Peak	3.4
						Valley	0.6
8	Ground	BR/Y	Pedal sensor input signal	Input	Pedal sensor	Forward	0.5
						Backward	4.5
9	Ground	LG/B	Memory switch 1 signal	Input	Memory switch 1	Push	0
						Other than above	5
10	Ground	L	UART LINE (TX)	Output	Ignition switch ON		 PIIA4813E
12	Ground	P	Memory indicator 1 signal	Output	Memory indicator 1	Illuminate	0
						Other than above	Battery voltage

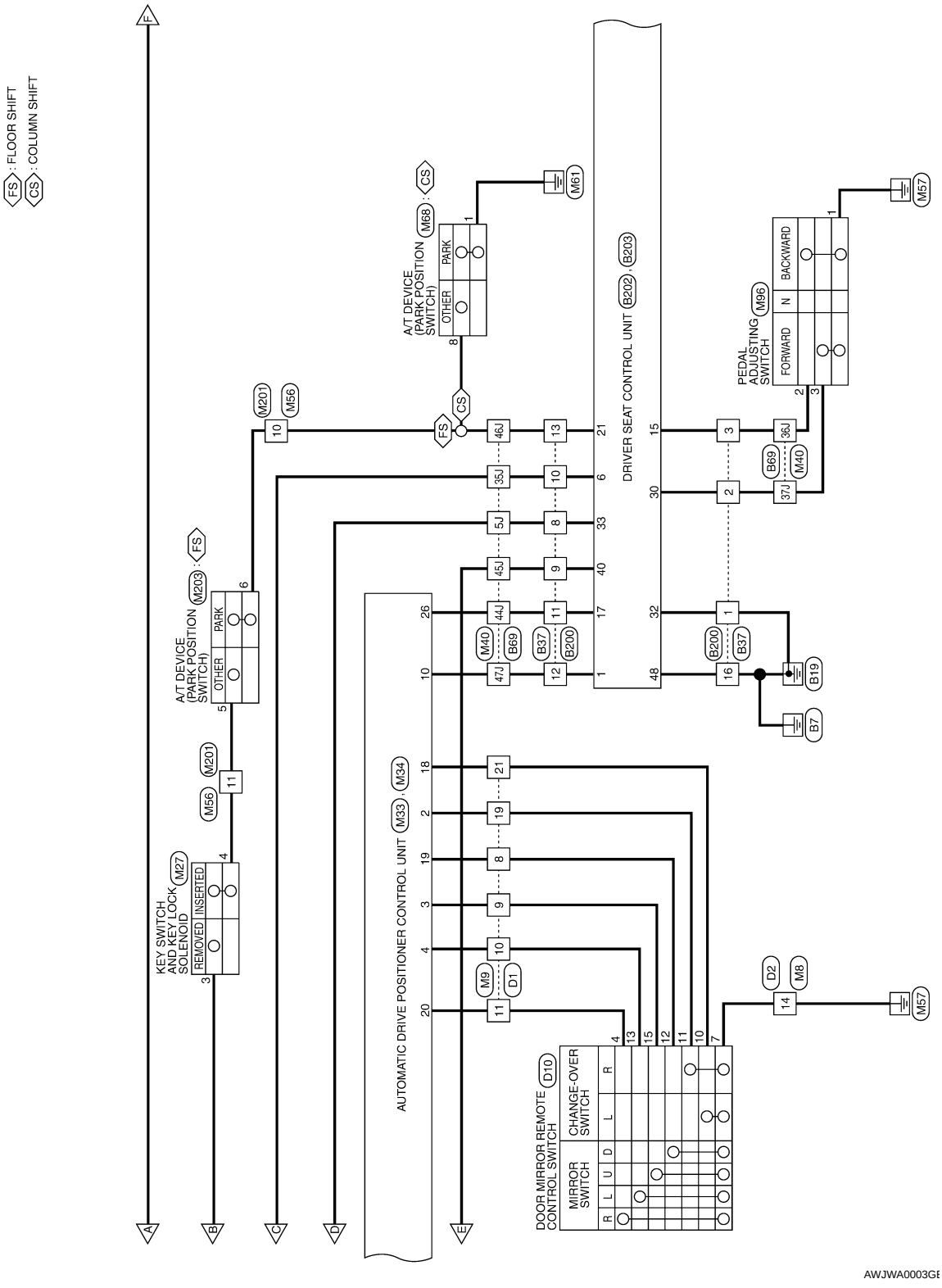
Terminal No.		Wire color	Description		Condition		Voltage (V) (Approx.)
+	-		Signal name	Input/ Output			
13	Ground	Y/G	Memory indicator 2 signal	Output	Memory indicator 2	Illuminate	0
						Other than above	Battery voltage
14	Ground	GR/R	Door mirror motor (RH) up output signal	Output	Door mirror RH	Operate (up)	1.5 - Battery voltage
						Other than above	0
15	Ground	V/R	Door mirror motor (RH) left output signal	Output	Door mirror RH	Operate (left)	1.5 - Battery voltage
						Other than above	0
16	Ground	O	Door mirror motor (LH) down output signal	Output	Door mirror (LH)	Operate (down)	1.5 - Battery voltage
						Other than above	0
			Door mirror motor (LH) right output signal			Operate (right)	1.5 - Battery voltage
						Other than above	0
18	Ground	BR/W	Changeover switch LH signal	Input	Changeover switch position	LH	0
						Neutral or RH	5
19	Ground	SB	Mirror switch down signal	Input	Mirror switch	Operate (down)	0
						Other than above	5
20	Ground	GR	Mirror switch right signal	Input	Mirror switch	Operate (right)	0
						Other than above	5
21	Ground	L/W	Door mirror sensor (RH) left/right signal	Input	Door mirror RH position	Left edge	3.4
						Right edge	0.6
22	Ground	G	Door mirror sensor (LH) left/right signal	Input	Door mirror LH position	Left edge	0.6
						Right edge	3.4
24	Ground	G/O	Set switch signal	Input	Set switch	Push	0
						Other than above	5
25	Ground	P/L	Memory switch 2 signal	Input	Memory switch 2	Push	0
						Other than above	5
26	Ground	W	UART LINE (RX)	Input	Ignition switch ON		 PIIA4814E

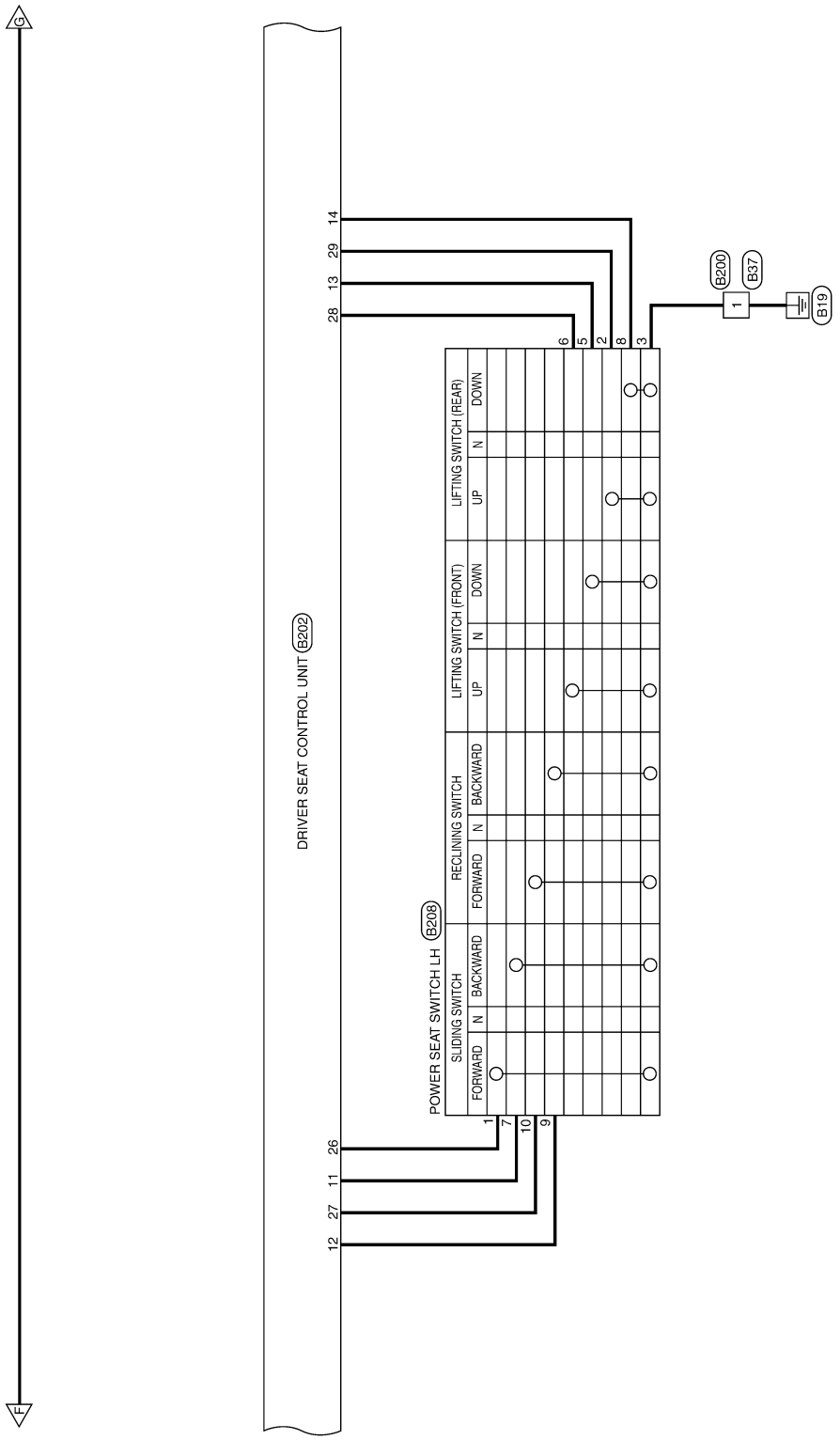
Terminal No.		Wire color	Description		Condition		Voltage (V) (Approx.)
+	-		Signal name	Input/ Output			
30	Ground	Y	Door mirror motor (RH) down output signal	Output	Door mirror (RH)	Operate (down)	1.5 - Battery voltage
						Other than above	0
			Door mirror motor (RH) right output signal			Operate (right)	1.5 - Battery voltage
						Other than above	0
31	Ground	R	Door mirror motor (LH) up output signal	Output	Door mirror (LH)	Operate (up)	1.5 - Battery voltage
						Other than above	0
32	Ground	BR	Door mirror motor (LH) left output signal	Output	Door mirror (LH)	Operate (left)	1.5 - Battery voltage
						Other than above	0
33	Ground	W/L	Sensor power supply	Input	—		5
34	Ground	Y/R	Battery power supply	Input	—		Battery voltage
37	Ground	G	Pedal adjusting motor forward output signal	Output	Pedal adjusting motor	Operate (forward)	Battery voltage
						Other than above	0
39	Ground	L/B	Battery power supply		—		Battery voltage
40	Ground	B/W	Ground	—	—		0
41	Ground	W/G	Sensor ground	—	—		0
45	Ground	R	Pedal adjusting motor backward output signal	Output	Pedal adjusting motor	Operate (backward)	Battery voltage
						Other than above	0
48	Ground	B	Ground	—	—		0

Wiring Diagram

INFOID:0000000001673130




FS : FLOOR SHIFT
CS : COLUMN SHIFT
A/T DEVICE (PARK POSITION SWITCH) M68 : CS
OTHER
PARK
M61
DRIVER SEAT CONTROL UNIT B202 , B203
PEDAL ADJUSTING SWITCH M96
FORWARD
N
BACKWARD
M57
M201
M56
10
FS
CS
46J
35J
5J
45J
44J
47J
13
10
8
9
11
12
21
6
33
40
17
1
15
30
32
48
3
2
1
16
36J
37J
B69
M40
B200
B37
B19
B7
A/T DEVICE (PARK POSITION SWITCH) M203 : FS
OTHER
PARK
6
5
11
KEY SWITCH AND KEY LOCK SOLENOID M27
REMOVED
INSERTED
4
3
AUTOMATIC DRIVE POSITIONER CONTROL UNIT M33 , M34
18
2
19
3
4
20
21
19
8
9
10
11
M9
D1
DOOR MIRROR REMOTE CONTROL SWITCH D10
MIRROR SWITCH
CHANGE-OVER SWITCH
R
L
U
D
R
L
R
4
13
15
12
11
10
7
D2
M8
14
A
B
C
D
E
F
AWJWA0003GE



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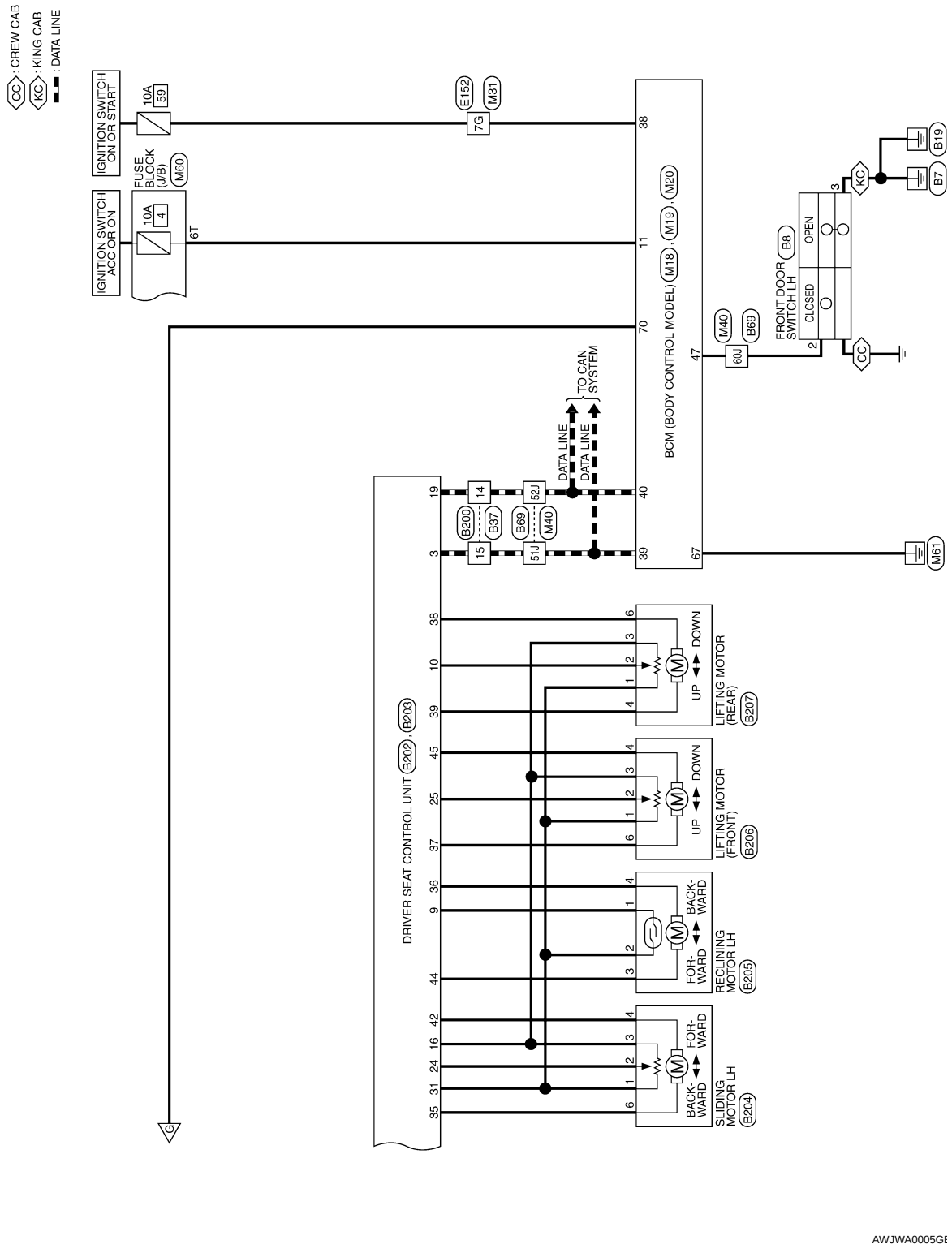

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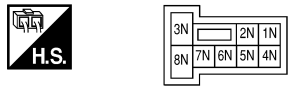
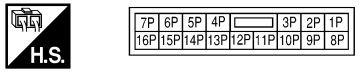
AUTOMATIC DRIVE POSITIONER CONNECTORS

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



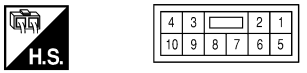
Terminal No.	Color of Wire	Signal Name
1N	Y/R	–

Connector No.	M4
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



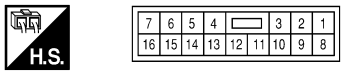
Terminal No.	Color of Wire	Signal Name
14P	O	AUTO_DRPO

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Color	WHITE



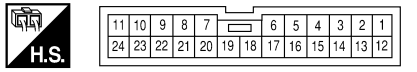
Terminal No.	Color of Wire	Signal Name
1	W/L	–
2	W/G	–
5	G	–
6	BR/Y	–
7	R	–

Connector No.	M8
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
14	B	–

Connector No.	M9
Connector Name	WIRE TO WIRE
Connector Color	WHITE



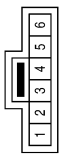
Terminal No.	Color of Wire	Signal Name
1	P/L	–
2	G/O	–
3	Y/G	–
4	P	–
5	LG/B	–

Terminal No.	Color of Wire	Signal Name
8	SB	–
9	Y/B	–
10	V/W	–
11	GR	–
12	B/R	–
13	G	–
14	O	–
15	W/G	–
16	L/Y	–
17	W/L	–
18	R	–
19	LG	–
20	Y/R	–
21	BR/W	–

ALJIA0106GB

Connector No.	M12
Connector Name	KEY SWITCH AND IGNITION KNOB SWITCH
Connector Color	GRAY

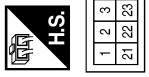
H.S.



Terminal No.	Color of Wire	Signal Name
3	Y	–
4	B/R	–

Connector No.	M18
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
11	O	ACC SW
38	W/L	IGN SW
39	L	CAN-H
40	P	CAN-L

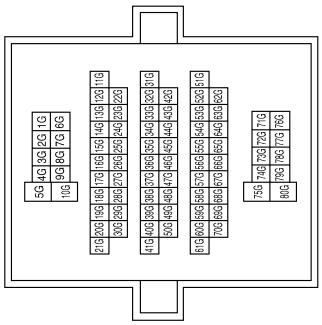
Connector No.	M19
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
47	SB	DOOR SW (DR)

Connector No.	M31
Connector Name	WIRE TO WIRE
Connector Color	WHITE

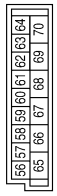
H.S.



Terminal No.	Color of Wire	Signal Name
7G	W/L	–
10G	W/B	–

Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	BLACK

H.S.



Terminal No.	Color of Wire	Signal Name
67	B	GND (POWER)

ALJIA0107GB

Connector No.	M33
Connector Name	AUTOMATIC DRIVE POSITION CONTROL UNIT
Connector Color	WHITE

H.S.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

Terminal No.	Color of Wire	Signal Name
2	LG	MIR_SELECT_SW_RH
3	Y/B	MIR_MANU_SW_UP
4	V/W	MIR_MANU_SW_LH
5	R/B	VERTICAL_SENS_RH
6	L/Y	VERTICAL_SENS_LH
8	BR/Y	PEDAL_POTENTION
9	LG/B	MEMORY1_SW

Terminal No.	Color of Wire	Signal Name
10	L	TX
12	P	MEMORY1_IND
13	Y/G	MEMORY2_IND
14	GR/R	RH_MTR_(UP-DN)
15	V/R	RH_MTR(LT)
16	O	LH_MTR_(COM)
18	BR/W	MIR_SELECT_SW_LH
19	SB	MIR_MANU_SW_DN
20	GR	MIR_MANU_SW_LH
21	L/W	HORIZONTAL_SENS
22	G	HORIZONTAL_SENS
24	G/O	SET_SW
25	P/L	MEMORY2_SW
26	W	RX
30	Y	RH_MTR_(COM)
31	R	LH_MTR_(UP-DWN)
32	BR	LH_MTR_(LT)

Connector No.	M34
Connector Name	AUTOMATIC DRIVE POSITION CONTROL UNIT
Connector Color	WHITE

H.S.

33	34	35	36		37	38	39
40	41	42	43	44	45	46	47	48

Terminal No.	Color of Wire	Signal Name
33	W/L	MEMORY(POT_FEED)
34	Y/R	BAT_(FUSE)
37	G	FORWARD
39	L/B	BAT(PTC)
40	B/W	GND(SIG)
41	W/G	MEMORY(POT_RET)
45	R	PEDAL_POTENTION
48	B	GND(POWER)

Terminal No.	Color of Wire	Signal Name
5J	L/B	–
35J	O	–
36J	L/Y	–
37J	R	–
44J	W	–
45J	Y/R	–
46J	L/R	–
47J	L	–
51J	L	–
52J	P	–
60J	SB	–

Connector No.	M39
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE

H.S.

3Q		2Q	1Q
8Q	7Q	6Q	5Q	4Q

Terminal No.	Color of Wire	Signal Name
4Q	Y/R	–

Connector No.	M40
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

ALJIA0108GB

Connector No.	M74
Connector Name	WIRE TO WIRE
Connector Color	BROWN

H.S.

9	8	7	6		5	4	3	2	1
20	19	18	17	16	15	14	13	12	11	10

Terminal No.	Color of Wire	Signal Name
8	Y	–
9	R/B	–
13	W/G	–
14	W/L	–
15	V/R	–
16	L/W	–
20	GR/R	–

Connector No.	M60
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE

H.S.

2T		1T
6T	5T	4T	3T

Terminal No.	Color of Wire	Signal Name
6T	O	–

Connector No.	M56
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

1	2	3		4	5	6	7
8	9	10	11	12	13	14	15	16

Terminal No.	Color of Wire	Signal Name
10	L/R	–
11	B/R	–

Connector No.	M201
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

7	6	5	4		3	2	1
16	15	14	13	12	11	10	9	8

Terminal No.	Color of Wire	Signal Name
10	L/R	–
11	R/B	–

Connector No.	M96
Connector Name	PEDAL ADJUSTING SWITCH
Connector Color	BROWN

H.S.

5		6
4	2	1	3

Terminal No.	Color of Wire	Signal Name
1	W/R	–
2	SB	–
3	V	–

Connector No.	M82
Connector Name	CIRCUIT BREAKER-2
Connector Color	GRAY

H.S.

1
2

Terminal No.	Color of Wire	Signal Name
1	L/B	–
2	W/B	–

ALJIA0109GB

Connector No.	M203
Connector Name	A/T DEVICE
Connector Color	WHITE

H.S.

1	2	3	4	5
6	7	8	9	10	11	12

Terminal No.	Color of Wire	Signal Name
5	R/B	–
6	L/R	–

Connector No.	E10
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

1	2	3	4
5	6	7	8	9	10

Terminal No.	Color of Wire	Signal Name
1	W/L	–
2	W/G	–
5	G	–
6	BR/Y	–
7	R	–

Connector No.	E109
Connector Name	PEDAL ADJUSTING MOTOR
Connector Color	GRAY

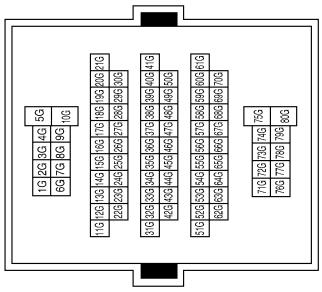
H.S.

1	2

Terminal No.	Color of Wire	Signal Name
1	G	–
2	R	–

Connector No.	E152
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
7G	L/W	–
10G	W/B	–

Connector No.	E110
Connector Name	PEDAL ADJUSTING SENSOR
Connector Color	GRAY

H.S.

3	4	5

Terminal No.	Color of Wire	Signal Name
3	W/L	–
4	BR/Y	–
5	W/G	–

ALJIA0110GB

Terminal No.	Color of Wire	Signal Name
8	L/B	–
9	Y/R	–
10	O	–
11	W	–
12	L	–
13	L/R	–
14	P	–
15	L	–
16	B/W	–

Connector No.	B200
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

Connector No.	B37
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	L/B	–
2	B/W	–
3	L/Y	–

Terminal No.	Color of Wire	Signal Name
5J	L/B	–
35J	O	–
36J	L/Y	–
37J	R	–
44J	W	–
45J	Y/R	–
46J	L/R	–
47J	L	–
51J	L	–
52J	P	–
60J	SB	–

Connector No.	B8
Connector Name	FRONT DOOR SWITCH LH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
2	SB	–

Connector No.	B69
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

ALJIA0111GB

Connector No.	B202
Connector Name	DRIVER SEAT CONTROL UNIT
Connector Color	WHITE

H.S.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

Terminal No.	Color of Wire	Signal Name
1	L	RX
3	L	CAN-H
6	O	ST_SW
9	L/R	RECLINING MOTOR SENSOR
10	W	REAR LIFTING MOTOR SENSOR
11	R/B	SLIDE(RR)
12	O/B	RECLINE(RR)
13	L/B	FRONT LIFT(DOWN)
14	G/W	REAR LIFT(DOWN)
15	L/Y	PEDAL_BACK
16	W	POWER SUPPLY (SENSOR)

Connector No.	B203
Connector Name	DRIVER SEAT CONTROL UNIT
Connector Color	WHITE

H.S.

33	34	35	36		37	38	39
40	41	42	43	44	45	46	47	48

Terminal No.	Color of Wire	Signal Name
33	L/B	BAT(PTC)
35	V/W	SLIDING MOTOR(FR)
36	Y/G	RECLINING MOTOR (FR)
37	BR	FRONT LIFTING MOTOR(DOWN)
38	B/W	REAR LIFTING MOTOR (UP)
39	Y	REAR LIFTING MOTOR (DOWN)
40	Y/R	BAT (FUSE)
42	O/B	SLIDING MOTOR(RR)
44	Y/R	RECLINING MOTOR (RR)
45	GR	FRONT LIFTING MOTOR (UP)
48	B/W	GND (POWER)

Connector No.	B204
Connector Name	SLIDING MOTOR LH
Connector Color	WHITE

H.S.

6		4
3	2	1

Terminal No.	Color of Wire	Signal Name
1	L/Y	–
2	Y/G	–
3	W	–
4	O/B	–
6	V/W	–

Terminal No.	Color of Wire	Signal Name
17	W	TX
19	P	CAN-L
21	L/R	P_RANGE_SW
24	Y/G	SLIDING MOTOR SENSOR
25	LG	FRONT LIFTING MOTOR SENSOR
26	P/B	SLIDE(FR)
27	G/B	RECLINE(FR)
28	Y/B	FRONT LIFT(UP)
29	R/W	REAR LIFT(UP)
30	R	PEDAL_FORWARD
31	L/Y	GND (SENSOR)
32	B	GND

ALJIA0112GB

Connector No.	B205
Connector Name	RECLINING MOTOR LH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	L/R	–
2	L/Y	–
3	Y/R	–
4	Y/G	–

Connector No.	B206
Connector Name	LIFTING MOTOR (FRONT)
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	L/Y	–
2	LG	–
3	W	–
4	GR	–
6	BR	–

Connector No.	B207
Connector Name	LIFTING MOTOR (REAR)
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	L/Y	–
2	W	–
3	W	–
4	Y	–
6	B/W	–

Connector No.	B208
Connector Name	POWER SEAT SWITCH LH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	P/B	–
2	R/W	–
3	B	–
5	L/B	–
6	Y/B	–
7	R/B	–
8	G/W	–
9	O/B	–
10	G/B	–

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	R/G	–
2	G/O	–
3	Y/G	–
4	P	–
5	LG/B	–
8	SB	–

Terminal No.	Color of Wire	Signal Name
9	Y/B	–
10	V/W	–
11	GR	–
12	BR	–
13	G	–
14	O	–
15	W/G	–
16	L/Y	–
17	W/L	–
18	R	–
19	LG	–
20	Y/R	–
21	BR/W	–

ALJIA0166GB

Connector No.	D5
Connector Name	SEAT MEMORY SWITCH
Connector Color	WHITE

H.S.

3	5		6	7	2	1	4

Terminal No.	Color of Wire	Signal Name
1	LG/B	SET 1
2	P/L	SET 2
3	G/O	SET SW
4	B	GND
5	Y/R	–
6	P	IND1
7	Y/G	IND2

Connector No.	D4
Connector Name	DOOR MIRROR LH
Connector Color	WHITE

H.S.

10	11	12		13	14	15	16
1	2	3	4	5	6	7	8	9

Terminal No.	Color of Wire	Signal Name
1	R	–
2	BR	–
3	O	–
5	W/L	–
6	W/G	–
7	L/Y	–
8	G	–

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

1	2	3		4	5	6	7
8	9	10	11	12	13	14	15	16

Terminal No.	Color of Wire	Signal Name
14	B	–

Connector No.	D107
Connector Name	DOOR MIRROR RH
Connector Color	WHITE

H.S.

10	11	12		13	14	15	16
1	2	3	4	5	6	7	8	9

Terminal No.	Color of Wire	Signal Name
1	GR/R	–
2	V/R	–
3	Y	–
5	W/L	–
6	W/G	–
7	R/B	–
8	L/W	–

Connector No.	D102
Connector Name	WIRE TO WIRE
Connector Color	BROWN

H.S.

1	2	3	4	5		6	7	8	9
10	11	12	13	14	15	16	17	18	19	20

Terminal No.	Color of Wire	Signal Name
8	Y	–
9	R/B	–
13	W/G	–
14	W/L	–
15	V/R	–
16	L/W	–
20	GR/R	–

Connector No.	D10
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH
Connector Color	WHITE

H.S.

1	2	3	4		5	6	7
8	9	10	11	12	13	14	15	16

Terminal No.	Color of Wire	Signal Name
4	GR	–
7	B	–
10	BR/W	–
11	LG	–
12	SB	–
13	V/W	–
15	Y/B	–

ALJIA0167GB

BCM (BODY CONTROL MODULE)

Reference Value

INFOID:0000000001673131

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

Monitor Item	Condition	Value/Status
DOOR SW-DR	Front door LH closed	Off
	Front door LH opened	On

TERMINAL LAYOUT

For terminal layout information, refer to BCS-37, "Terminal Layout".

PHYSICAL VALUES

For physical value information, refer to BCS-37, "Physical Values".

Wiring Diagram

INFOID:0000000001673132

For wiring information, refer to BCS-43, "Wiring Diagram".

DTC Inspection Priority Chart

INFOID:0000000001673133

For DTC priority information, refer to BCS-46, "DTC Inspection Priority Chart".

DTC Index

INFOID:0000000001673134

For DTC information, refer to BCS-47, "DTC Index".

SYMPTOM DIAGNOSIS

ADP SYSTEM SYMPTOMS

Symptom Table

INFOID:0000000001673135

NOTE:
Always perform the “Basic Inspection” before performing diagnosis in the following table. Refer to ADP-4, "Work Flow".

SYMPTOM 1

Symptom		Diagnosis procedure	Reference page
Manual functions (for specific part) do not operate	Sliding operation	Check sliding switch.	ADP-43
	Reclining operation	Check reclining switch.	ADP-45
	Lifting operation (front)	Check lifting switch (front).	ADP-47
	Lifting operation (rear)	Check lifting switch (rear).	ADP-49
	Pedal operation	1. Check pedal adjusting switch.	ADP-51
		2. Check pedal adjusting sensor.	ADP-76
	Door mirror operation	1. Changeover switch.	ADP-56
		2. Mirror switch	ADP-58
	All parts of seat	Check power seat switch ground circuit.	ADP-61

SYMPTOM 2

Symptom		Diagnosis procedure	Reference page
Memory functions (for specific part) do not operate	Sliding operation	Check sliding sensor.	ADP-68
	Reclining operation	Check reclining sensor.	ADP-70
	Lifting operation (front)	Check lifting sensor (front).	ADP-72
	Lifting operation (rear)	Check lifting sensor (rear).	ADP-74
	Pedal operation	Check pedal adjusting sensor.	ADP-76
	Door mirror operation	Check door mirror sensor.	Driver side: ADP-78 Passenger side: ADP-80

SYMPTOM 3

Symptom		Diagnosis procedure	Reference page
Memory functions and manual functions (for specific part) do not operate	Sliding operation	Check sliding motor.	ADP-82
	Reclining operation	Check reclining motor.	ADP-84
	Lifting operation (front)	Check lifting motor (front).	ADP-86
	Lifting operation (rear)	Check lifting motor (rear).	ADP-88
	Pedal operation	Check pedal adjusting motor.	ADP-90
	Door mirror operation	Check door mirror motor.	ADP-92

SYMPTOM 4

Symptom	Diagnosis procedure	Reference page
Entry/Exit assist function does not operate.	1. Check system setting.	ADP-19
	2. Perform initialization.	ADP-19
	3. Check front door switch (driver side).	ADP-19

SYMPTOM 5

Symptom	Diagnosis procedure	Reference page
Memory indicators 1 and/or 2 do not illuminate.	1. Check seat memory switch.	ADP-54
	2. Check seat memory indicator.	ADP-95

SYMPTOM 6

Symptom	Diagnosis procedure	Reference page
Memory operation does not operate.	Check A/T device (park position switch).	ADP-62

NORMAL OPERATING CONDITION

Description

INFOID:0000000001673136

The following symptoms are normal operations, and they do not indicate a malfunction.

Symptom	Cause	Action to take	Reference page
Entry/Exit assist function does not operate.	No initialization has been performed.	Perform initialization.	ADP-19
	Entry/exit assist function is disabled. **NOTE:** The entry/exit assist function and seat synchronization function are disabled before delivery (initial setting).	Change the settings.	ADP-19
Entry assist function does not operate.	Manual operation with power seat switch was performed after exit assist function excution.	Perform the memory function.	ADP-19
Memory function or entry/exit assist function function does not operate.	The operating conditions are not fulfilled.	Fulfill the operation conditions.	Memory function: ADP-15
			Exit assist function: ADP-19
			Entry assist function: ADP-21

PRECAUTION

PRECAUTIONS

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

INFOID:0000000001337863

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.**

Precaution for Work

INFOID:0000000001337864

- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and keep them.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After re-installation is completed, be sure to check that each part works normally.
- Follow the steps below to clean components.

- Water soluble foul: Dip a soft cloth into lukewarm water, and wring the water out of the cloth to wipe the fouled area.
  Then rub with a soft and dry cloth.
- Oily foul: Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%), and wipe the fouled area.
  Then dip a cloth into fresh water, and wring the water out of the cloth to wipe the detergent off. Then rub with a soft and dry cloth.

- Do not use organic solvent such as thinner, benzene, alcohol, or gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

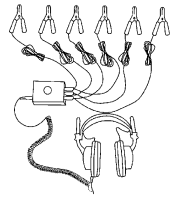
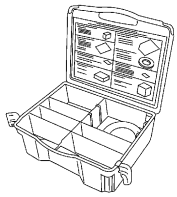
PREPARATION

PREPARATION

Special Service Tool

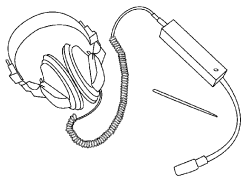
INFOID:0000000001337885

The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

Tool number (Kent-Moore No.) Tool name	Description
— (J-39570) Chassis ear  SIIA0993E	Locating the noise
— (J-43980) NISSAN Squeak and Rattle Kit  SIIA0994E	Repairing the cause of noise

Commercial Service Tool

INFOID:0000000001337886

(Kent-Moore No.) Tool name	Description
(J-39565) Engine ear  SIIA0995E	Locating the noise

REMOVAL AND INSTALLATION

AUTOMATIC DRIVE POSITIONER

Removal and Installation

INFOID:0000000001337935

Refer to ACC-3, "Removal and Installation" and BR-19, "Removal and Installation".