I BODY

SECTION IP A INSTRUMENT PANEL C

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PRECAUTIONS

PRECAUTIONS

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

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.

PREPARATION

PREPARATION

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Special Service Tools

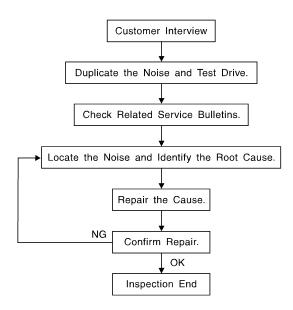
EIS004EX

А

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		Locating the noise
	SBT839	
(J-43980) NISSAN Squeak and Rattle kit		Repairing the cause of noise
	SBT840	
ommercial Service Too	ls	EIS004EY
(Kent-Moore No.) Tool name		Description
(J-39565) Engine ear		Locating the noise
Power Tool	SIIA0995E	Loosening bolts and nuts
Power Tool	SIA0995E	Loosening bolts and nuts

SQUEAK AND RATTLE TROUBLE DIAGNOSES Work Flow



SBT842

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CUSTOMER INTERVIEW

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any customer's comments; refer to <u>IP-8</u>, "<u>Diagnostic Worksheet</u>". This information is necessary to duplicate the conditions that exist when the noise occurs.

- The customer may not be able to provide a detailed description or the location of the noise. Attempt to obtain all the facts and conditions that exist when the noise occurs (or does not occur).
- If there is more than one noise in the vehicle, be sure to diagnose and repair the noise that the customer is concerned about. This can be accomplished by test driving the vehicle with the customer.
- After identifying the type of noise, isolate the noise in terms of its characteristics. The noise characteristics are provided so the customer, service adviser and technician are all speaking the same language when defining the noise.
- Squeak —(Like tennis shoes on a clean floor)
 Squeak characteristics include the light contact/fast movement/brought on by road conditions/hard surfaces = higher pitch noise/softer surfaces = lower pitch noises/edge to surface = chirping.
- Creak—(Like walking on an old wooden floor)
 Creak characteristics include firm contact/slow movement/twisting with a rotational movement/pitch dependent on materials/often brought on by activity.
- Rattle—(Like shaking a baby rattle) Rattle characteristics include the fast repeated contact/vibration or similar movement/loose parts/missing clip or fastener/incorrect clearance.
- Knock —(Like a knock on a door)
 Knock characteristics include hollow sounding/sometimes repeating/often brought on by driver action.
- Tick—(Like a clock second hand)
 Tick characteristics include gentle contacting of light materials/loose components/can be caused by driver action or road conditions.
- Thump—(Heavy, muffled knock noise)
 Thump characteristics include softer knock/dead sound often brought on by activity.
- Buzz—(Like a bumble bee)
 Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending upon the person. A noise that you may judge as acceptable may be very irritating to the customer.
- Weather conditions, especially humidity and temperature, may have a great effect on noise level.

DUPLICATE THE NOISE AND TEST DRIVE

А If possible, drive the vehicle with the customer until the noise is duplicated. Note any additional information on the Diagnostic Worksheet regarding the conditions or location of the noise. This information can be used to duplicate the same conditions when you confirm the repair. If the noise can be duplicated easily during the test drive, to help identify the source of the noise, try to duplicate the noise with the vehicle stopped by doing one or all of the following: 1) Close a door. 2) Tap or push/pull around the area where the noise appears to be coming from. 3) Rev the engine. 4) Use a floor jack to recreate vehicle "twist". 5) At idle, apply engine load (electrical load, half-clutch on M/T model, drive position on A/T model). 6) Raise the vehicle on a hoist and hit a tire with a rubber hammer. Drive the vehicle and attempt to duplicate the conditions the customer states exist when the noise occurs. If it is difficult to duplicate the noise, drive the vehicle slowly on an undulating or rough road to stress the vehicle body. Е CHECK RELATED SERVICE BULLETINS After verifying the customer concern or symptom, check ASIST for Technical Service Bulletins (TSBs) related F to that concern or symptom. If a TSB relates to the symptom, follow the procedure to repair the noise. LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE 1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Chassis Ear: J-39570, Engine Ear: J-39565 and mechanic's stethoscope). 2. Narrow down the noise to a more specific area and identify the cause of the noise by: Н removing the components in the area that you suspect the noise is coming from. • Do not use too much force when removing clips and fasteners, otherwise clips and fasteners can be broken or lost during the repair, resulting in the creation of new noise. IP tapping or pushing/pulling the component that you suspect is causing the noise. . Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily. feeling for a vibration with your hand by touching the component(s) that you suspect is (are) causing the noise. placing a piece of paper between components that you suspect are causing the noise. Κ looking for loose components and contact marks. Refer to IP-6, "Generic Squeak and Rattle Troubleshooting". REPAIR THE CAUSE L If the cause is a loose component, tighten the component securely. If the cause is insufficient clearance between components: separate components by repositioning or loosening and retightening the component, if possible. Μ insulate components with a suitable insulator such as urethane pads, foam blocks, felt cloth tape or urethane tape. A NISSAN Squeak and Rattle Kit (J-43980) is available through your authorized NISSAN Parts Department. **CAUTION:** Do not use excessive force as many components are constructed of plastic and may be damaged. Always check with the Parts Department for the latest parts information. The following materials are contained in the NISSAN Squeak and Rattle Kit (J-43980). Each item can be ordered separately as needed. URETHANE PADS [1.5 mm (0.059 in) thick] Insulates connectors, harness, etc. 76268-9E005: 100×135 mm (3.94×5.31 in)/76884-71L01: 60×85 mm (2.36×3.35 in)/76884-71L02: 15×25 mm (0.59×0.98 in) **INSULATOR (Foam blocks)** Insulates components from contact. Can be used to fill space behind a panel. 73982-9E000: 45 mm (1.77 in) thick, 50×50 mm (1.97×1.97 in)/73982-50Y00: 10 mm (0.39 in) thick, 50×50 mm (1.97×1.97 in)

INSULATOR (Light foam block)

80845-71L00: 30 mm (1.18 in) thick, 30×50 mm (1.18×1.97 in) FELT CLOTH TAPE Used to insulate where movement does not occur. Ideal for instrument panel applications. 68370-4B000: 15×25 mm (0.59×0.98 in) pad/68239-13E00: 5 mm (0.20 in) wide tape roll. The following materials not found in the kit can also be used to repair squeaks and rattles. UHMW (TEFLON) TAPE Insulates where slight movement is present. Ideal for instrument panel applications. SILICONE GREASE Used instead of UHMW tape that will be visible or not fit. Note: Will only last a few months. SILICONE SPRAY Use when grease cannot be applied. DUCT TAPE Use to eliminate movement.

CONFIRM THE REPAIR

Confirm that the cause of a noise is repaired by test driving the vehicle. Operate the vehicle under the same conditions as when the noise originally occurred. Refer to the notes on the Diagnostic Worksheet.

Generic Squeak and Rattle Troubleshooting

Refer to Table of Contents for specific component removal and installation information.

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

- 1. The cluster lid A and instrument panel
- 2. Acrylic lens and combination meter housing
- 3. Instrument panel to front pillar garnish
- 4. Instrument panel to windshield
- 5. Instrument panel mounting pins
- 6. Wiring harnesses behind the combination meter
- 7. A/C defroster duct and duct joint

These incidents can usually be located by tapping or moving the components to duplicate the noise or by pressing on the components while driving to stop the noise. Most of these incidents can be repaired by applying felt cloth tape or silicone spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness.

CAUTION:

Do not use silicone spray to isolate a squeak or rattle. If you saturate the area with silicone, you will not be able to recheck the repair.

CENTER CONSOLE

Components to pay attention to include:

- 1. Shifter assembly cover to finisher
- 2. A/C control unit and cluster lid C
- 3. Wiring harnesses behind audio and A/C control unit

The instrument panel repair and isolation procedures also apply to the center console.

DOORS

Pay attention to the:

- 1. Finisher and inner panel making a slapping noise
- 2. Inside handle escutcheon to door finisher
- 3. Wiring harnesses tapping
- 4. Door striker out of alignment causing a popping noise on starts and stops

Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. You can usually insulate the areas with felt cloth tape or insulator foam blocks from the NISSAN Squeak and Rattle Kit (J-43980) to repair the noise.

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TRUNK

IRUNK	
Trunk noises are often caused by a loose jack or loose items put into the trunk by the owner. In addition look for:	А
1. Trunk lid bumpers out of adjustment	
2. Trunk lid striker out of adjustment	В
3. The trunk lid torsion bars knocking together	
4. A loose license plate or bracket	С
Most of these incidents can be repaired by adjusting, securing or insulating the item(s) or component(s) causing the noise.	C
SUNROOF/HEADLINING	D
Noises in the sunroof/headlining area can often be traced to one of the following:	
1. Sunroof lid, rail, linkage or seals making a rattle or light knocking noise	
2. Sun visor shaft shaking in the holder	Е
3. Front or rear windshield touching headliner and squeaking	
Again, pressing on the components to stop the noise while duplicating the conditions can isolate most of these incidents. Repairs usually consist of insulating with felt cloth tape.	F
OVERHEAD CONSOLE (FRONT AND REAR)	
Overhead console noises are often caused by the console panel clips not being engaged correctly. Most of these incidents are repaired by pushing up on the console at the clip locations until the clips engage. In addition look for:	G
1. Loose harness or harness connectors.	
2. Front console map/reading lamp lens loose.	Н
3. Loose screws at console attachment points.	
SEATS	IP
When isolating seat noise it's important to note the position the seat is in and the load placed on the seat when the noise is present. These conditions should be duplicated when verifying and isolating the cause of the noise.	J
Cause of seat noise include:	0
1. Headrest rods and holder	
2. A squeak between the seat pad cushion and frame	Κ
3. The rear seatback lock and bracket	
These noises can be isolated by moving or pressing on the suspected components while duplicating the con- ditions under which the noise occurs. Most of these incidents can be repaired by repositioning the component or applying urethane tape to the contact area.	L
UNDERHOOD	
Some interior noise may be caused by components under the hood or on the engine wall. The noise is then transmitted into the passenger compartment. Causes of transmitted underhood noise include:	Μ
1. Any component mounted to the engine wall	
2. Components that pass through the engine wall	

- 3. Engine wall mounts and connectors
- 4. Loose radiator mounting pins
- 5. Hood bumpers out of adjustment
- 6. Hood striker out of adjustment

These noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best method is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine RPM or load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or insulating the component causing the noise.

Diagnostic Worksheet

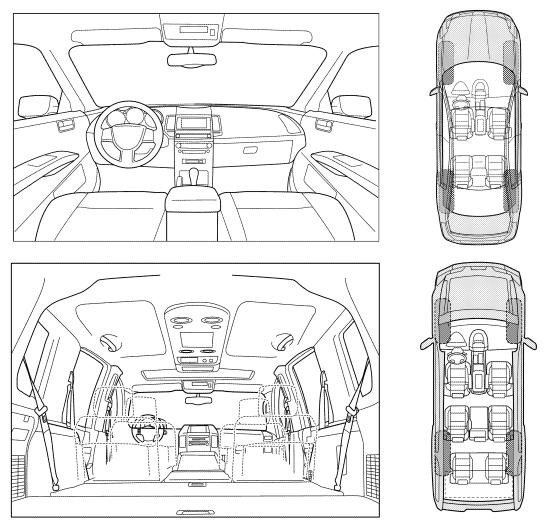
Dear Customer:

We are concerned about your satisfaction with your vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your vehicle right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under what conditions. You may be asked to take a test drive with a service advisor or technician to ensure we confirm the noise you are hearing.

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

I. WHERE DOES THE NOISE COME FROM? (circle the area of the vehicle)

The illustrations are for reference only, and may not reflect the actual configuration of your vehicle.



Continue to page 2 of the worksheet and briefly describe the location of the noise or rattle. In addition, please indicate the conditions which are present when the noise occurs.

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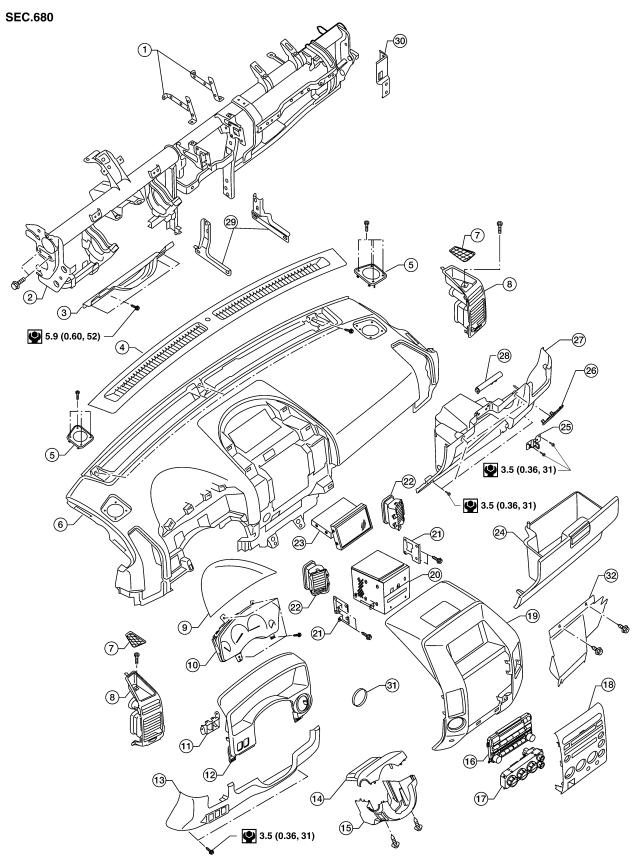
SQUEAK & RATTLE DIAGNOSTIC WORK	SHEET	Г - page 2			A
Briefly describe the location where the noise	se occui	rs:			
					E
II. WHEN DOES IT OCCUR? (please chec	ck the b	oxes that app	ly)		C
 Anytime 1st time in the morning Only when it is cold outside Only when it is hot outside 		After sitting ou When it is rain Dry or dusty co Dther:	ing or wet		E
III. WHEN DRIVING:	IV. 1	WHAT TYPE (OF NOISE	E	
 Through driveways Over rough roads Over speed bumps 		•	king on ar	s on a clean floor) n old wooden floor) py rattle)	F
 Only about mph On acceleration Coming to a stop 	т [] т []	Knock (like a k Fick (like a cloo Fhump (heavy	ck second muffled kr	l hand) nock noise)	F
 On turns: left, right or either (circle) With passengers or cargo Other: After driving miles or minut 		3uzz (like a bu	mble bee)		IP
TO BE COMPLETED BY DEALERSHIP PE Test Drive Notes:	ERSON	NEL			ŀ
		YES	NO	Initials of person performing	N
Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaired - Follow up test drive performed to confirm	n repair				
VIN:					
This form must	t be atta	iched to Work	Order	LAIA0071E	



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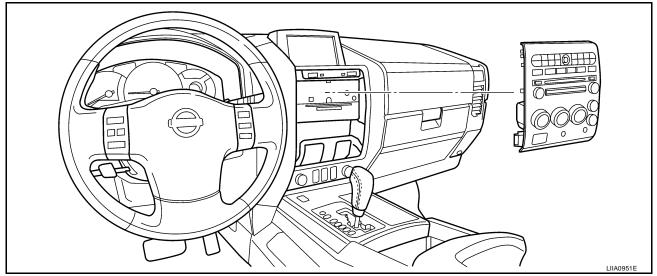
Removal and Installation INSTRUMENT PANEL





	1. 4. 7.	Display unit bracket RH/LH Defroster grille Deck pocket mat RH/LH	2. 5. 8.	Steering member assembly Speaker grille RH/LH Side ventilator assembly RH/LH	3. 6. 9.	Lower knee protector Instrument panel and pad assembly Combination meter cover	A
	10. 13. 16.	Combination meter Lower instrument panel LH Audio display switch assembly	11. 14. 17.	Switch assembly Steering column cover upper Front air control	12. 15. 18.	Cluster lid A Steering column cover lower Cluster lid C	В
	19.	Cluster lid D	20.	Audio unit	21.	Radio Bracket RH/LH	
	22.	Center ventilator assembly RH/LH	23.	Display assembly	24.	Glove box	С
	25.	Glove box lid striker	26.	Fuse block cover	27.	Lower instrument panel RH	
	28.	Glove box damper	29.	Instrument stay RH/LH	30.	Instrument side bracket	
	31.	Key cylinder escutcheon	32.	Lower instrument panel RH			D
De				·			
Re	-						_
1.		emove the center console. Refe					E
2.		move instrument lower cover L					
3.		move the steering column. Re					F
4.		emove the combination meter.			TE	<u> </u>	Г
5.	Re	emove audio unit. Refer to <u>AV-7</u>	′4, " <i>I</i>	<u>AUDIO UNIT"</u> .			
6.	Re	emove display unit. Refer to <u>AV</u>	<u>-169</u>	<u>, "DISPLAY UNIT"</u>			G
7.	Re	emove lower knee protector.					G
8.	Re	move defroster grille and disco	onne	ct the optical sensor harness.			
9.	Re	move side ventilator assembly	LH.				Н
10.	Re	move the LH assist grip and w	indsl	hield garnish.			
		move side ventilator assembly		-			
		emove the RH assist grip and w					IP
				_	PASS	SENGER AIR BAG MODULE" .	
		emove instrument panel.	louui		////	<u>.</u> .	
		sconnect remaining instrument	non	al assembly electrical connect	ore		J
		5	pain		013.		
		ation					
Ins	talla	ation is in the reverse order of r	emo	val.			Κ
							L

CLUSTER LID C



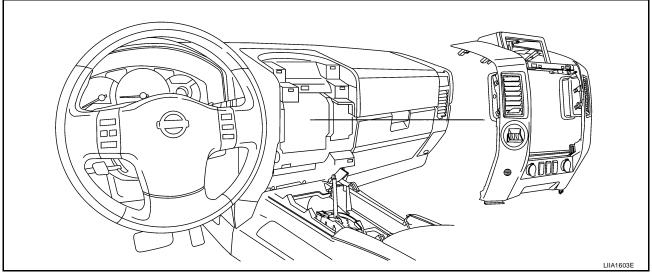
Removal

- 1. Disconnect battery negative terminal.
- 2. Pull cluster lid C towards rear of vehicle to release clips.
- 3. Disconnect cluster lid C electrical connectors.

Installation

Installation is in the reverse order of removal.

CLUSTER LID D



Removal

- 1. Remove A/T finisher. Refer to IP-13, "A/T FINISHER".
- 2. Remove glove box. Refer to IP-14, "LOWER INSTRUMENT PANEL RH AND GLOVE BOX" .
- 3. Remove cluster lid C. Refer to IP-12, "CLUSTER LID C".
- 4. Remove cluster lid D by pulling toward the rear of the vehicle to release the clips.
- 5. Disconnect cluster lid D electrical connectors.

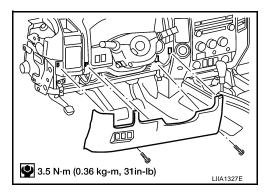
Installation

Installation is in the reverse order of removal.

LOWER INSTRUMENT PANEL LH

Removal

- 1. Remove instrument lower cover LH, using power tool.
- 2. Pull to disconnect lower instrument panel LH clips.
- 3. Disconnect lower instrument panel LH electrical connectors.



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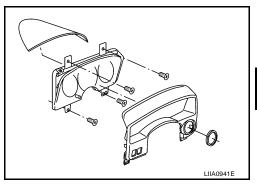
Installation

Installation is in the reverse order of removal.

COMBINATION METER

Removal

- 1. Disconnect battery negative terminal.
- 2. Remove the lower instrument panel LH. Refer to IP-13, "LOWER INSTRUMENT PANEL LH".
- 3. Remove steering column cover upper and steering column cover lower.
- 4. Remove the combination meter cover.
- 5. Remove cluster lid A.
- 6. Disconnect cluster lid A electrical connectors.
- 7. Remove combination meter screws, using power tool.
- 8. Disconnect combination meter electrical connectors.



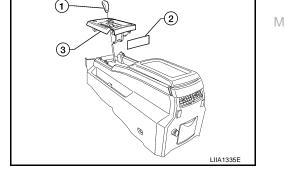
Installation

Installation is in the reverse order of removal.

A/T FINISHER

Removal

- 1. Remove the shift knob.
- 2. Remove the storage compartment mask.
- 3. Pull up to release clips and remove the A/T finisher.
- 4. Disconnect A/T finisher electrical connector.



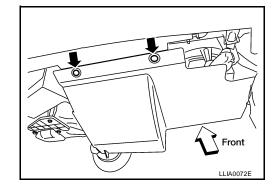
Installation

Installation is in the reverse order of removal.

LOWER INSTRUMENT PANEL RH AND GLOVE BOX

Removal

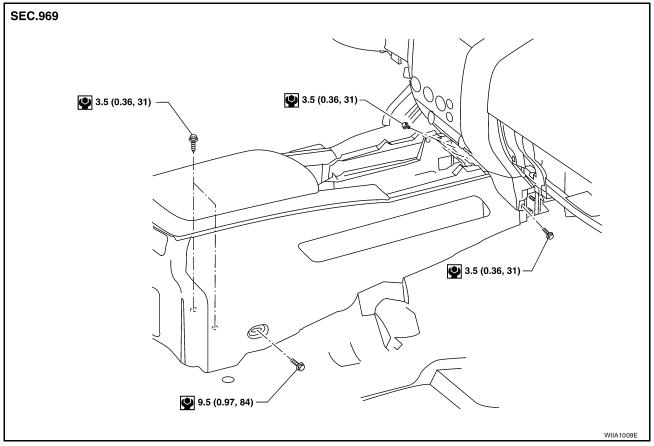
- 1. Remove instrument lower cover RH.
- 2. Remove glove box assembly screws using power tool.
- 3. Disconnect glove box lamp.
- 4. Remove the lower instrument panel RH and glove box.



Installation

Installation is in the reverse order of removal.

CENTER CONSOLE

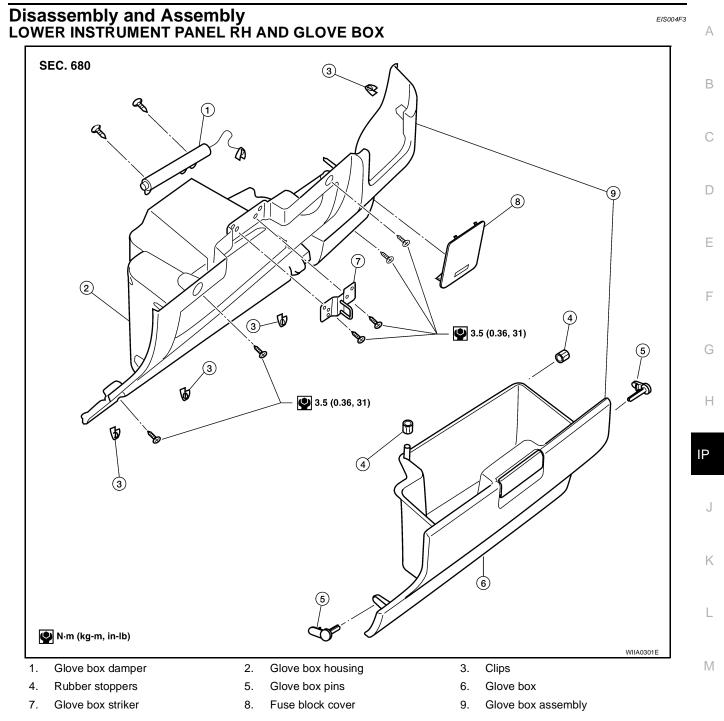


Removal

- 1. Remove control device. Refer to AT-231, "Control Device Removal and Installation" .
- 2. Remove glove box. Refer to IP-14, "LOWER INSTRUMENT PANEL RH AND GLOVE BOX" .
- 3. Remove center console lower cover RH and center console lower cover LH.
- 4. Remove screws from center console.
- 5. Disconnect center console electrical connector.
- 6. Move front seats forward and remove the center console assembly.

Installation

Installation is in the reverse order of removal.



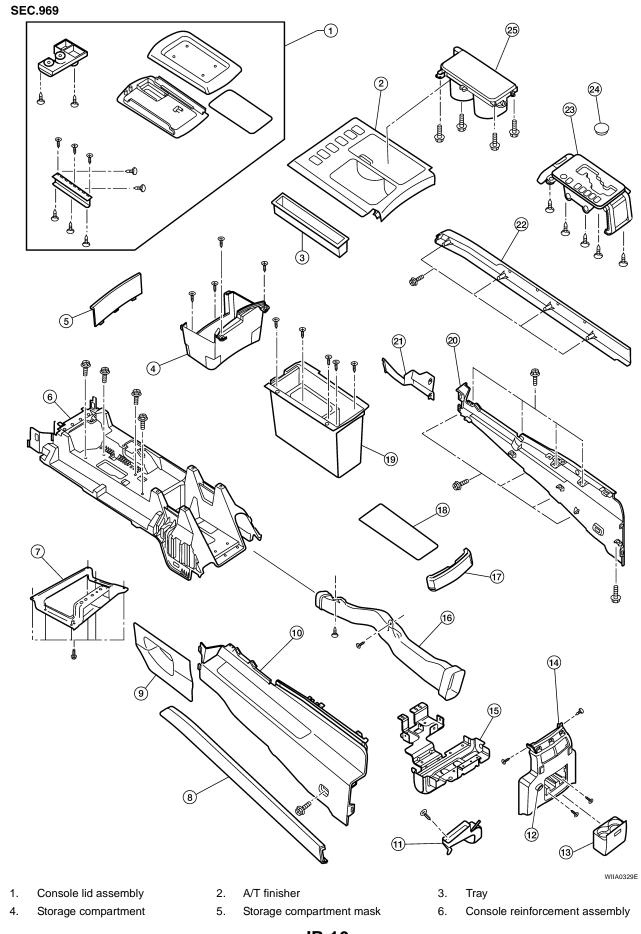
Disassembly

- 1. Remove damper clip from glove box.
- 2. Remove glove box pins and glove box.
- 3. Remove glove box striker screws, using power tool and remove glove box striker.
- 4. Remove fuse block cover.
- 5. Remove glove box damper screws and remove glove box damper.

Assembly

Assembly is in the reverse order of disassembly.

CENTER CONSOLE





7. Console front bracket	8.	Lower side finisher LH	9.	Center console lower cover LH	
10. Console cover LH	11.	Rear console duct	12.	Console power socket	
13. Rear cup holder assembly	14.	Rear finisher assembly	15.	Console rear bracket	
16. Heat duct	17.	Rear upper finisher	18.	Console bin mat	
19. Console bin	20.	Console cover RH	21.	Center console lower cover RH	
22. Lower side finisher RH	23.	A/T transmission control	24.	Mask	
25. Cup holder insert					
Disassembly					
1. Remove tray and mat from o	console	bin.			
2. Remove latch from console	lid.				
3. Remove console lid.					
4. Remove console lid hinge.					
5. Remove console bin.					
6. Disconnect electrical harnes	s from	DVD player (if equipped).			
7. Remove rear upper finisher.					
8. Remove rear cup holder ass	sembly.				
9. Remove rear finisher assem	ıbly.				
10. Disconnect rear finisher ass	embly e	electrical connectors.			
11. Remove console power soc	ket.				
12. Remove upper side finishers	s LH/RH	ł.			
13. Remove screws on each sid	le, disc	onnect clips and remove co	nsole cov	ers LH/RH.	
14. Remove mask and storage	compar	tment.			
15. Remove console front brack	et.				
16. Remove heat duct and cons	ole rea	r duct.			
17. Remove console rear brack	et.				
Assembly					
Assembly is in the reverse order	of disc	ssambly			
		ssembly.			

Μ