# SECTION SEAT C

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< BASIC INSPECTION >	
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BASIC INSPECTION
DIAGNOSIS AND REPAIR WORKFLOW

Work Flow	В
DETAILED FLOW	
1. OBTAIN INFORMATION ABOUT SYMPTOM	С
Interview the customer to obtain the malfunction information (conditions and environment when the malfunc-	
tion occurred) as much as possible when the customer brings the vehicle in.	D
>> GO TO 2.	D
2. REPRODUCE THE MALFUNCTION INFORMATION	_
Check the malfunction on the vehicle that the customer describes.	E
Inspect the relation of the symptoms and the condition when the symptoms occur.	
	F
>> GO TO 3.	
3. IDENTIFY THE MALFUNCTIONING SYSTEM WITH "SYMPTOM DIAGNOSIS"	G
Use "Symptom diagnosis" from the symptom inspection result in step 2. Then identify where to start perform- ing the diagnosis based on possible causes and symptoms.	
	Н
>> GO TO 4.	
4. IDENTIFY MALFUNCTIONING PARTS WITH "COMPONENT DIAGNOSIS"	
Perform the diagnosis with "Component diagnosis" of the applicable system.	I
>> GO TO 5.	
5. REPAIR OR REPLACE THE MALFUNCTIONING PARTS	SE
Repair or replace the specified malfunctioning parts.	
	Κ
>> GO TO 6.	
6.FINAL CHECK	L
Is the malfunctioning part repaired or replaced?	
(Check that malfunctions are not reproduced when obtaining the malfunction information from the customer, referring to the symptom inspection result in step 2.)	Μ
YES or NO	IVI
YES >> Trouble diagnosis is completed.	
NO >> GO TO 2.	Ν
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# < SYSTEM DESCRIPTION > SYSTEM DESCRIPTION

# POWER SEAT

#### System Description

INFOID:000000001831500

INFOID:000000001831501

BCM can operate regardless of the ignition switch position, because battery power is supplied at all times to power seat switch.

#### SLIDING OPERATION

While operating the sliding switch located in power seat switch, sliding motor operates and makes possible the seat front and back position adjustment.

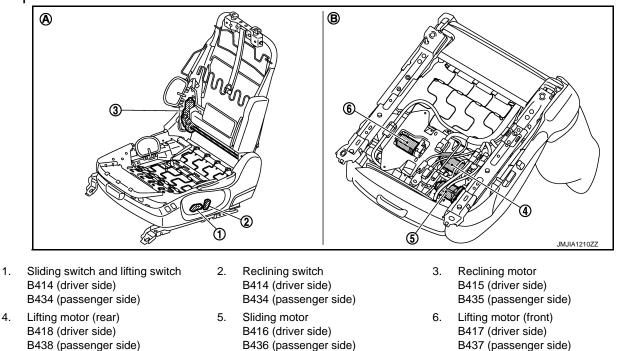
#### **RECLINING OPERATION**

While operating the reclining switch located in power seat switch, reclining motor operates and makes possible the seat back forward and backward position adjustment.

#### LIFTING OPERATION

While operating the lifting switch located in power seat switch, lifting motor operates and makes possible the seat cushion up and down position adjustment.

#### **Component Parts Location**



A. View with seat cushion pad and seat back pad are removed.

# **Component Description**

B. View with back side of seat cushion.

INFOID:000000001831502

Item	Function		
BCM	upplies at all times the power received from battery to power seat switch.		
Power seat switch	Built-in reclining switch, sliding switch and lifting switch, controls the power supplied to each motor.		
Reclining motor	With the power supplied to power seat switch, operates the forward and backward movement of seatback.		
Sliding motor	With the power supplied to power seat switch, operates the forward and backward slide of seat.		
Lifting motor (front/rear)	With the power supplied to power seat switch, operates the up and down movement of seat cush- ion.		

# TILT&TELESCOPIC SYSTEM

#### < SYSTEM DESCRIPTION >

# TILT&TELESCOPIC SYSTEM

# System Description

INFOID:000000001831503

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Power from battery is supplied at all times to automatic driver positioner control unit, tilt and telescopic system В can operate regardless of the ignition switch position.

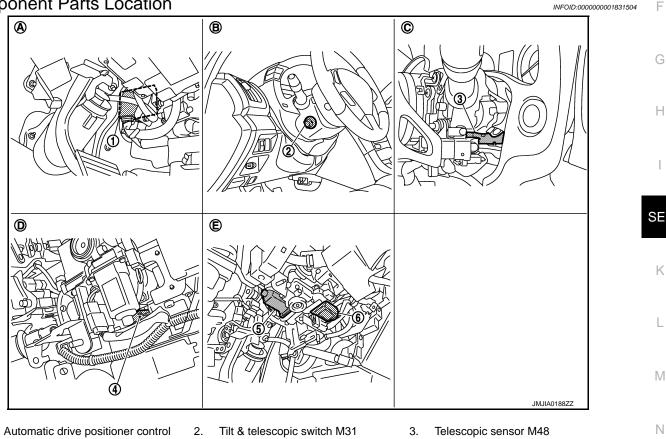
#### TILT OPERATION

- While operating the tilt and telescopic switch, tilt motor operates, and allows up or down position adjustment of steering wheel.
- During tilt motor operation tilt sensor detects the position of steering wheel and automatically cuts the power when the operation limit is reached.

#### **TELESCOPIC OPERATION**

- Operating the tilt and telescopic switch, telescopic motor operates and allows forward and backward position regulation of steering wheel.
- During telescopic motor operation telescopic sensor detects the position of steering wheel and automatically cuts the power when the operation limit is reached.

#### Component Parts Location



- 1. unit M51, M52
- 4. Tilt sensor M48
- View with instrument driver lower Α. panel is removed.
- View with steering column cover is D. removed.
- 5. Telescopic motor M49
- В. Steering column cover
- View with instrument lower cover is E. removed.
- 6. Tilt motor M49
- View with steering column cover is re-C. moved.

Ρ

# TILT&TELESCOPIC SYSTEM

< SYSTEM DESCRIPTION >

# **Component Description**

INFOID:000000001831505

Item	Function
Automatic drive positioner control unit	Detects data input signal of tilt and telescopic switch and tilt and telescopic sensor, per- forms tilt and telescopic motor control.
Tilt and telescopic switch	Tilt switch and telescopic switch, as a unit, transmit switch operation signal to automatic drive positioner control unit.
Tilt and telescopic motor	Operates with the power received from automatic drive control unit.
Tilt and telescopic sensor	Detects the position of steering, send signal to automatic drive positioner control unit.

# SIDE SUPPORT

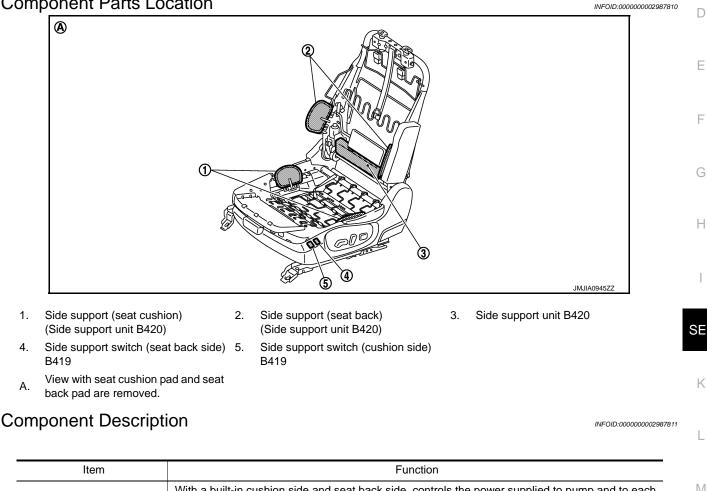
#### < SYSTEM DESCRIPTION >

# SIDE SUPPORT

#### System Description

- While operating the side support switch, the pump located inside side support unit operates and adjust the air pressure in seat cushion and seatback side support.
- It is possible to soften the side support, by allowing some air to escape, by deflating the solenoid located inside side support.
- It is possible to adjust seat cushion and seatback differently while inflating or deflating solenoid located in С side support unit.

# Component Parts Location



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INFOID:000000002987809

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# < SYSTEM DESCRIPTION >

# HEATED SEAT

# System Description

INFOID:000000001831506

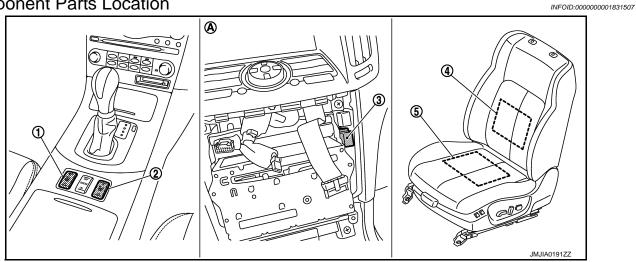
Heated seat is a system that operates when ignition switch is in ON or START position.

5.

#### HEATER OPERATION

- While operating the heated seat switch, seat cushion heater and seat back heater operate.
- · Changing heated seat switch to LOW/HIGH position, depending on working heater number it is possible to adjust the seat temperature.

#### **Component Parts Location**



- Heated seat switch (driver side) 1. M138: with A/T, M172: with M/T
- Seat back heater B413 4.
- View with cluster lid assembly is re-Α. moved.

# **Component Description**

- 2. Heated seat switch (passenger side) 3. M140: with A/T, M173: with M/T
  - Seat cushion heater B412
- Heated seat relay M70

INFOID:000000001831508

Item	Function
Heated seat switch (driver side / passenger side)	<ul> <li>Power is supplied to each heater.</li> <li>Depending on LOW/HIGH position of switch, operating heater number is changeable.</li> </ul>
Seat cushion heater	Built-in seat cushion, the heater operates with the power supplied by heater seat switch.
Seat back heater	Built-in seatback, the heater operates with the power supplied by heater seat switch.

# LUMBAR SUPPORT

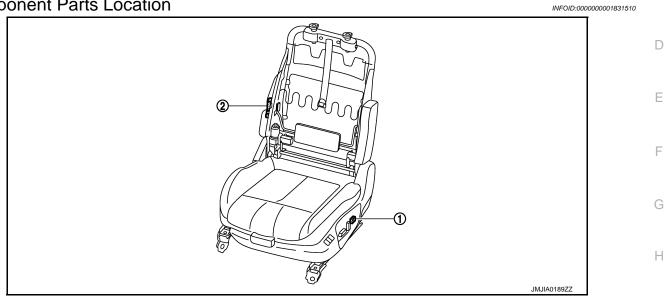
# < SYSTEM DESCRIPTION >

# LUMBAR SUPPORT

# System Description

- Lumbar support can operate regardless of the ignition switch position because battery power is supplied to it В at all times.
- · While operating the lumbar support switch, lumbar support motor operates which allows forward and backward operation of seatback support.

#### **Component Parts Location**



- Lumbar support switch B457 1.
- Lumbar support motor B458 2.

# **Component Description**

INFOID:000000001831511

Item	Function	
Lumbar support switch	Controls the power supplied to lumbar support motor.	K
Lumbar support motor	With the power supplied to lumbar support switch, operates the forward and backward movement of seatback support device.	
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INFOID:000000001831509

# POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

# DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

# AUTOMATIC DRIVE POSITIONER CONTROL UNIT : Component Function Check

INFOID:000000001831557

# 1. CHECK AUTOMATIC DRIVE POSITIONER CONTROL UNIT FUNCTION

Check tilt and telescopic operation with tilt and telescopic switch.

Is the inspection results normal?

YES >> Automatic drive positioner control unit is OK.

NO >> Refer to <u>SE-10, "AUTOMATIC DRIVE POSITIONER CONTROL UNIT : Diagnosis Procedure"</u>.

# AUTOMATIC DRIVE POSITIONER CONTROL UNIT : Diagnosis Procedure

INFOID:000000001831558

# **1.**CHECK ADP CONTROL UNIT POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.

2. Disconnect automatic drive positioner control unit connector.

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

Automatic drive positioner control unit connector			Voltago
Connector	Terminal	Ground	Voltage
M52	34	Ground	Battery voltage
	39		Battery voltage

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace circuit.

# **2.**CHECK ADP CONTROL UNIT GROUND CIRCUIT

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

Automatic drive positioner control unit connector	Terminal		Continuity
M52	40	Ground	Existed
SCIVI	48		Existed

Is the inspection result normal?

YES >> Power supply and ground circuit are OK.

NO >> Repair or replace circuit.

# **TILT&TELESCOPIC SWITCH**

# < DTC/CIRCUIT DIAGNOSIS >

# TILT&TELESCOPIC SWITCH

# Description

Tilt switch and telescopic switch as a unit, transmit switch operation signal to automatic drive positioner control В unit.

#### Component Function Check

#### **1.**CHECK TILT AND TELESCOPIC SWITCH FUNCTION

Check tilt and telescopic operation with tilt and telescopic switch.

Is the inspection results normal?

YES >> Tilt and telescopic switch is OK.

>> Refer to SE-11, "Diagnosis Procedure". NO

#### Diagnosis Procedure

# 1. CHECK TILT AND TELESCOPIC SWITCH FUNCTION

Check voltage between tilt and telescopic switch and ground.

Tilt and teles	scopic switch	Ground	Switch condition	Voltage (V)	
Connector	Terminal	Ground	Switch condition	Approx.	
	2		Forward position	0	
	2		Other than above	5	
-	3		Backward position	0	
M31	3	Ground	Other than above	5	
10131	4	Ground	Upward position	0	
	4		Other than above	5	
	F		Downward	0	
	5		Other than above	5	

#### Is the inspection result normal?

YES >> Tilt and telescopic switch is OK.

NO >> GO TO 2.

#### 2.CHECK TILT AND TELESCOPIC SWITCH SIGNAL CIRCUIT

1. Turn ignition switch OFF.

2. Disconnect tilt and telescopic switch and automatic drive positioner control unit connectors.

Check continuity between tilt and telescopic switch and automatic drive positioner control unit. 3.

Tilt and telescopic switch connec- tor	Terminal	ADP control unit	Terminal	Continuity	N
	2		11		
M04	3	NE4	27	Eviated	
M31	4	M51	1	Existed	0
	5	-	17		

#### Check continuity between tilt and telescopic switch and ground. 4.

Tilt and telescopic switch connector	Terminal		Continuity
M31	2		
	3	Ground	Not existed
	4	-	NOT EXISTED
	5		

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INFOID:000000001831525

INFOID:000000001831526

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# TILT&TELESCOPIC SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace circuit.

3. check tilt and telescopic switch ground circuit

Check continuity between tilt and telescopic switch and ground.

Tilt and telescopic switch connector	Terminal	Ground	Continuity
M31	1	Giouna	Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace circuit.

CHECK TILT AND TELESCOPIC SWITCH

Check tilt and telescopic switch.

Refer to SE-12, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace tilt and telescopic switch.

5.CHECK ADP CONTROL UNIT

1. Connect automatic drive positioner control unit connector.

2. Check voltage between automatic drive positioner control unit and ground.

Tilt and teles	copic switch		Voltage (V) Approx.
Connector	Terminal		Approx.
	1	Ground	5
M51	11	Ground	5
I CIVI	17		5
	27		5

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".

NO >> Replace automatic drive positioner control unit. Refer to <u>SE-65. "Removal and Installation"</u>.

#### Component Inspection

INFOID:000000001831527

# 1. CHECK TILT SWITCH

- 1. Turn ignition switch OFF.
- 2. Remove tilt and telescopic switch.

3. Check continuity between tilt and telescopic switch terminals.

Terminal		Switch condition	Continuity
0		Forward	Existed
2		Other than above	Not existed
2		Backward	Existed
3		Other than above	Not existed
4	1	Upward	Existed
4		Other than above	Not existed
		Downward	Existed
5		Other than above	Not existed

Is the inspection result normal?

YES >> Tilt and telescopic switch is OK.

NO >> Replace tilt and telescopic switch. Refer to SE-70, "Removal and Installation".

# **TILT&TELESCOPIC MOTOR**

< DTC/CIRCUIT DIAGNO		ELESCOPIC MC	DTOR	
TILT&TELESCOPI				
Description				INFOID:000000001831547
Tilt and telescopic motor op	verates with the pr	wer received from aut	tomatic drive nos	
Component Function	-	Jwei received nom ad	iomatic unve pos	INFOID:000000001831548
1. CHECK TILT AND TELE				
Check tilt and telescopic op				
Is the inspection results no				
YES >> Tilt and telesco NO >> Refer to <u>SE-13</u>				
Diagnosis Procedure	-			INFOID:000000001831549
1.CHECK MALFUNCTION	NING PART			
Check malfunctioning part.				
Is it tilt operation or telesco	pic operation?			
Tilt >> GO TO 2. Telescopic>>GO TO 3.				
2.CHECK TILT MOTOR P	OWER SUPPLY	AND GROUND CIRCL	JIT	
<ol> <li>Turn ignition switch OF</li> <li>Disconnect tilt motor at</li> </ol>		positioner control unit	t.	
3. Check continuity betwe	en tilt motor and	automatic drive positio	ner control unit.	
Tilt and telescopic motor	Terminal	Power seat switch con-	Terminal	Continuity
connector	3	nector	42	<b></b>
M49	4	M52	35	Existed
<u>Is the inspection result norr</u> YES >> GO TO 4.	<u>nal?</u>			
NO >> Repair or repla				
3.CHECK TELESCOPIC		SUPPLY AND GROUN	ND CIRCUIT	
<ol> <li>Turn ignition switch OF</li> <li>Disconnect telescopic</li> </ol>	motor and automa			
3. Check continuity betwe	en telescopic mo	tor and automatic drive	e positioner contr	ol unit.
Tilt and telescopic motor connector	Terminal	Power seat switch con- nector	Terminal	Continuity
M49	1	M52	44	Existed
	2	WIG2	36	Existed
Is the inspection result norr	<u>nal?</u>			
YES >> GO TO 4. NO >> Repair or repla	ce circuit.			
4.CHECK TILT AND TELE		8		
Check tilt and telescopic m Refer to <u>SE-14, "Compone</u>				
Is the inspection result norr				
YES >> GO TO 5. NO >> Replace tilt and	d telescopic motor	:		
5. CHECK ADP CONTROL	•			

# TILT&TELESCOPIC MOTOR

#### < DTC/CIRCUIT DIAGNOSIS >

- 1. Connect automatic drive positioner control unit connector.
- 2. Check voltage between automatic drive positioner control unit and ground.

Tilt and teles	scopic switch		Tilt and telescopic switch	Voltage (V)
Connector	Terminal		condition	Approx.
	05	Ground -	Upward	Battery voltage
	35		Other than above	0
	36		Forward	Battery voltage
M51	30		Other than above	0
I CIVI	42		Downward	Battery voltage
	42		Other than above	0
	44		Backward	Battery voltage
	44		Other than above	0

#### Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-39, "Intermittent Incident".

NO >> Replace automatic drive positioner control unit. Refer to <u>SE-65, "Removal and Installation"</u>.

#### Component Inspection

INFOID:000000001831550

#### 1.CHECK TILT AND TELESCOPIC MOTOR-I

Check visually the tilt and telescopic motor to see if any foreign object is not disturbing the functionment or if the tilt and telescopic motor is not broken.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace tilt and telescopic motor.

2. CHECK TILT AND TELESCOPIC MOTOR-II

- 1. Turn ignition switch OFF.
- 2. Disconnect tilt and telescopic motor connector.

3. Supply tilt and telescopic motor terminals with battery voltage and check operation.

Item	Terr	minal	Operation	
nem	(+)	(-)	Operation	
Telescopic motor	1	2	Backward	
	2	1	Forward	
Tilt motor	3	4	Downward	
	4	3	Upward	

Is the inspection result normal?

YES >> Tilt and telescopic motor is OK.

NO >> Replace tilt and telescopic motor.

# TILT&TELESCOPIC SENSOR

ILT&TELESCOPIC	SENSOR					
escription					INFOID:000000001831554	
t and telescopic sensor def ner control unit.	ects the position o	fsteerin	g wheel a	and transmits sig	gnals to automatic drive posi-	
omponent Function C	heck				INFOID:000000001831555	
CHECK TILT AND TELES	COPIC SENSOR	FUNCTI	ON			
neck tilt and telescopic ope	ration with tilt and t	telescopi	ic switch.			
the inspection results norm						
<pre>'ES &gt;&gt; Tilt and telescopi NO &gt;&gt; Refer to <u>SE-15,</u> "</pre>		ure".				
iagnosis Procedure					INFOID:00000001831556	
CHECK TILT AND TELES			F			
	COPIC SENSOR	CIRCUII				
Turn ignition switch OFF. Disconnect tilt and telesc						
Check continuity betwee	n tilt and telescopic	c sensor	and auto	matic drive pos	itioner control unit.	
Tilt and telescopic sensor con- nector	Terminal	ADP co	ontrol unit	Terminal	Continuity	
	1			33		
M48	2	M51	, M52	23	Existed	
	3	-		7 41		
Check continuity betwee	-	c sensor	and grou			
-	-					
Tilt and telescopic sensor conr tor	Termina	al			Continuity	
	1					
M48	2		G	round	Not existed	
	3		-			
the inspection result norma	4					
'ES >> GO TO 2.	<u>u :</u>					
IO >> Repair or replace						
CHECK TILT AND TELES	COPIC SENSOR	POWER	SUPPL			
Connect automatic drive Check voltage between a				it and ground.		
	conic sensor				Voltago	
Tilt and teleso						Voltage
Tilt and teleso Connector				und		
			Gro	und	Approx. 5V	

 $\mathbf{3}$ . Check tilt and telescopic sensor ground

Check continuity between automatic drive positioner control unit and ground.

# TILT&TELESCOPIC SENSOR

#### < DTC/CIRCUIT DIAGNOSIS >

Tilt and telescopic sensor			Continuity
Connector	Terminal	Ground	Continuity
M48	4		Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace automatic drive positioner. Refer to <u>SE-65, "Removal and Installation"</u>.

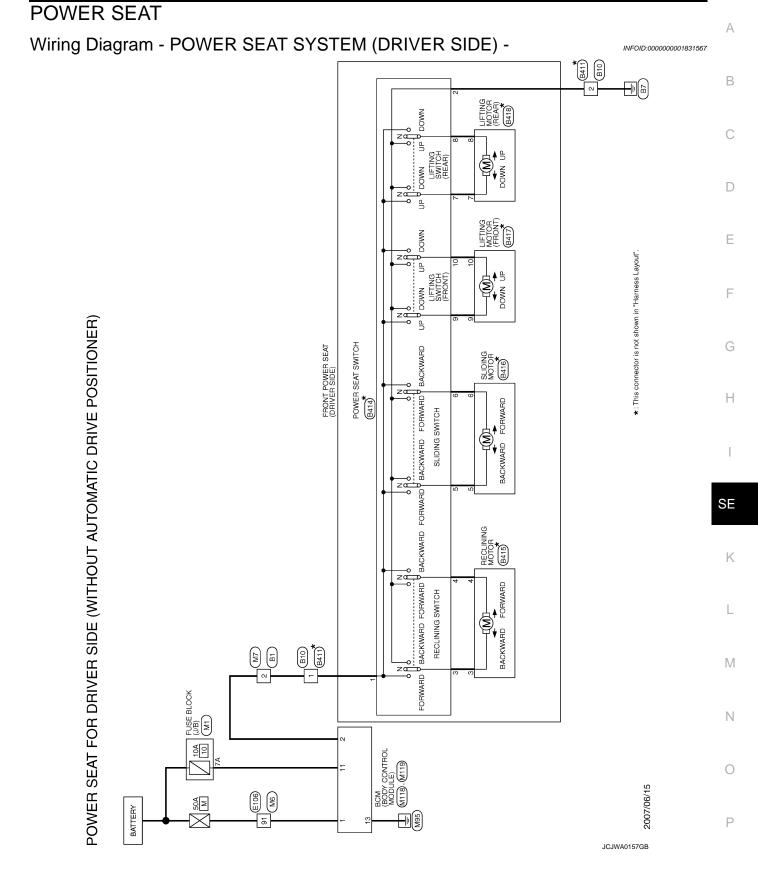
**4.**CHECK INTERMITTENT INCIDENT

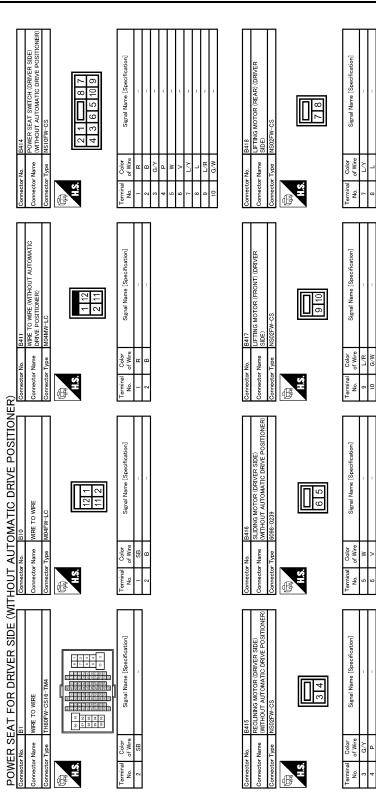
Check intermittent incident. Refer to <u>GI-39, "Intermittent Incident"</u>.

Is the inspection result normal?

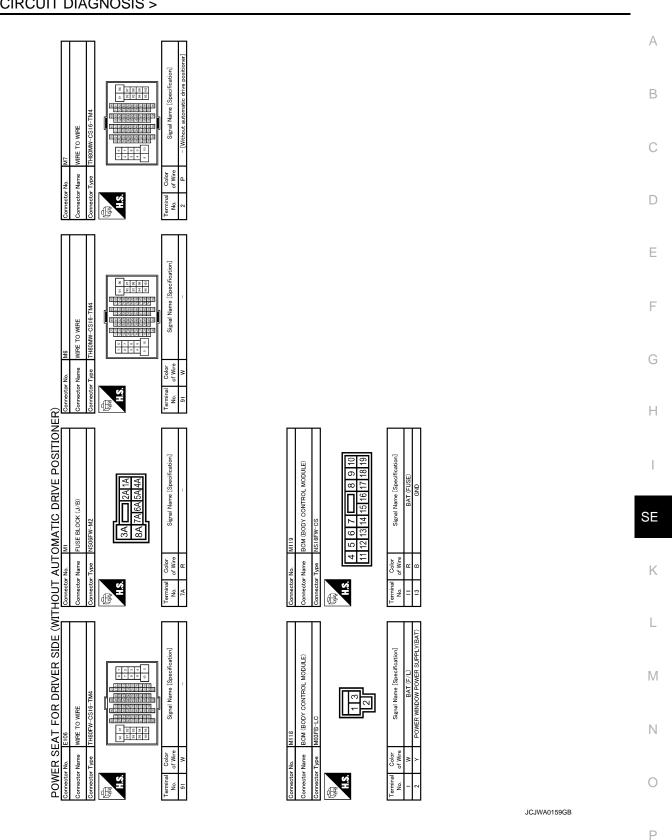
YES >> Replace automatic drive positioner control unit.

NO >> Repair or replace malfunction part.





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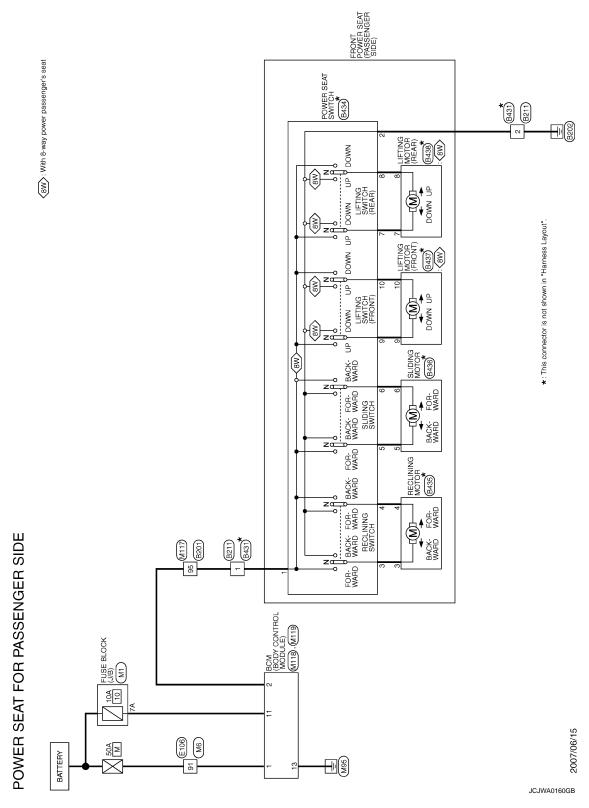
Revision: 2008 September

2008 G35 Sedan

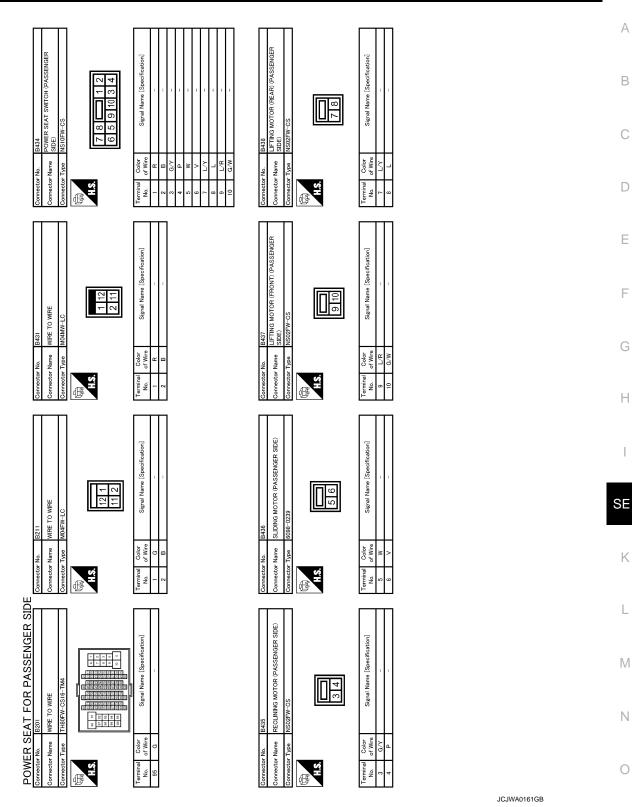




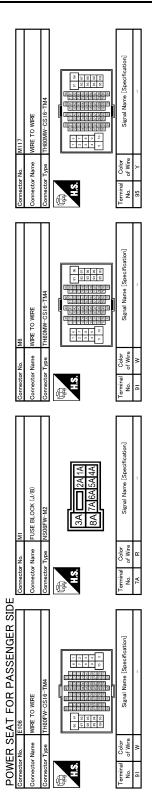
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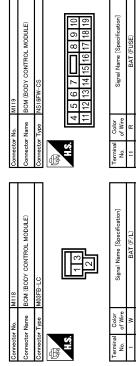


#### < DTC/CIRCUIT DIAGNOSIS >



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#### Wiring Diagram - HEATED SEAT SYSTEM -INFOID:000000001831569 SEAT BACK HEATER SEAT BACK HEATER A → : With AT M→ : With MT PM → : With automatic drive positioner OP >: Without automatic drive positioner : Without automatic drive positione ş 2 ŝ B11 B433 B10 FRONT SEAT (PASSENGER SIDE) 48 FRONT SEAT (DRIVER SIDE) B460 SEAT CUSHION HEATER (B412) SEAT CUSHION HEATER (B432) 6 SUB HEATER SUB B431) 11 \*: This connector is not shown in "Harness Layout" B211 B411 B201 64 65 (0 10 (II) 93 [m M135 E M171 SE HEATED SEAT SWITCH PASSENGER SIDE) ⊲≥ HEATED SEAT SWITCH (DRIVER SIDE) (M130): (A) (M172): (M) 140 (M135) [≥ FUSE BLOCK (J/B) M1 M135 02N 造 IGNITION SWITCH ON or START 10A HEATED SEAT 00 2007/06/15 E100 MG 15A 35 BATTERY JCJWA0172GB

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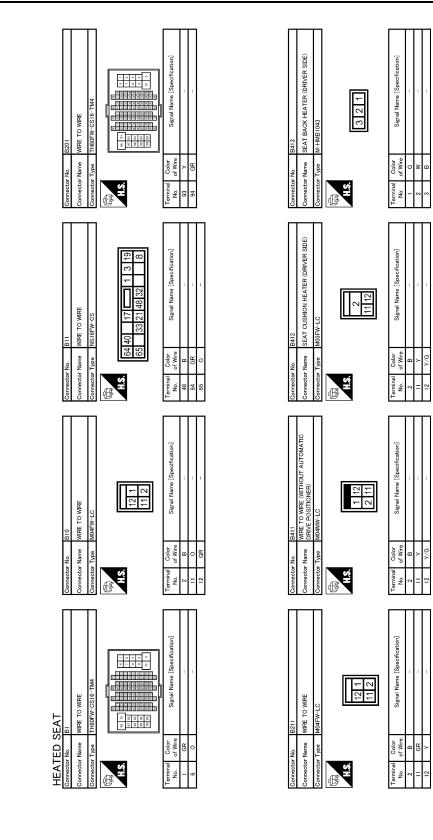
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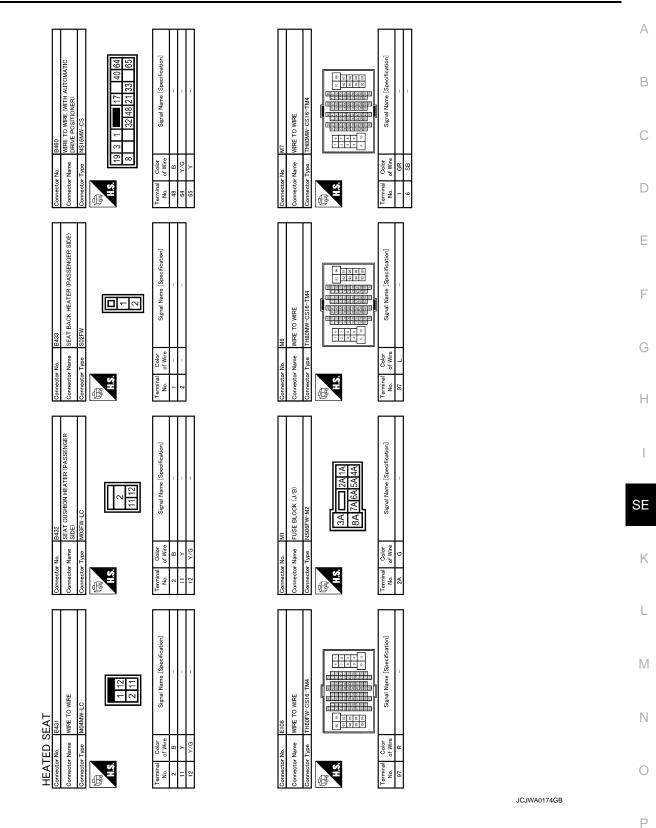
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#### < DTC/CIRCUIT DIAGNOSIS >

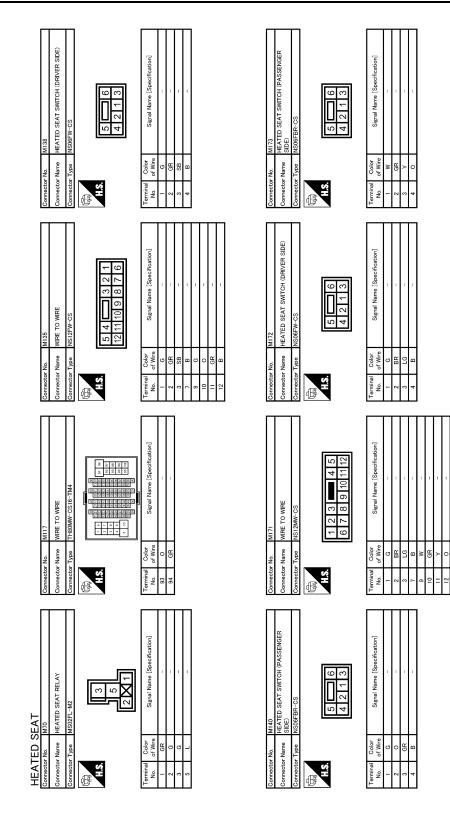


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#### < DTC/CIRCUIT DIAGNOSIS >

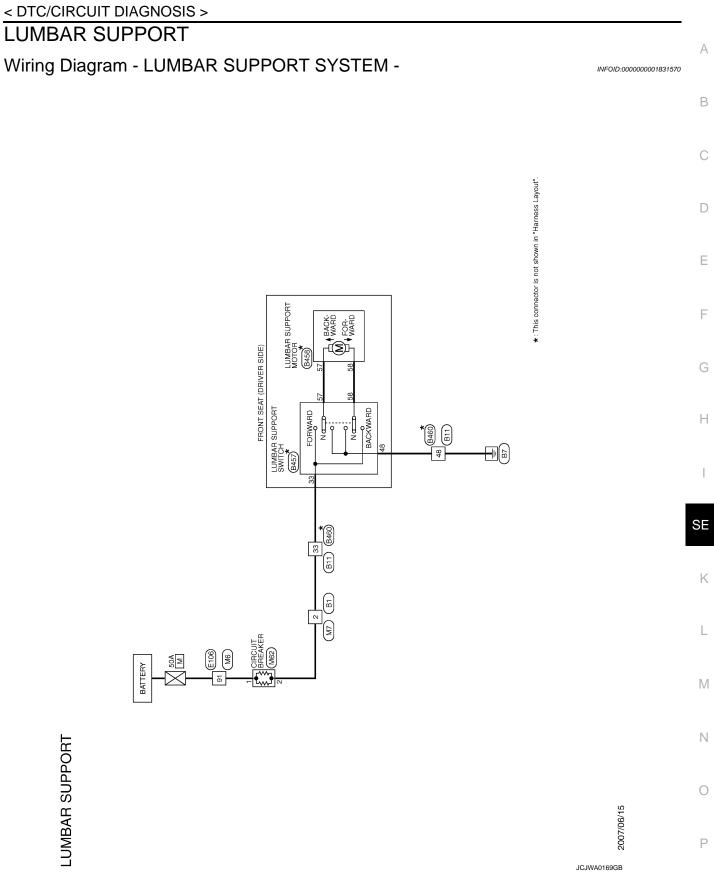


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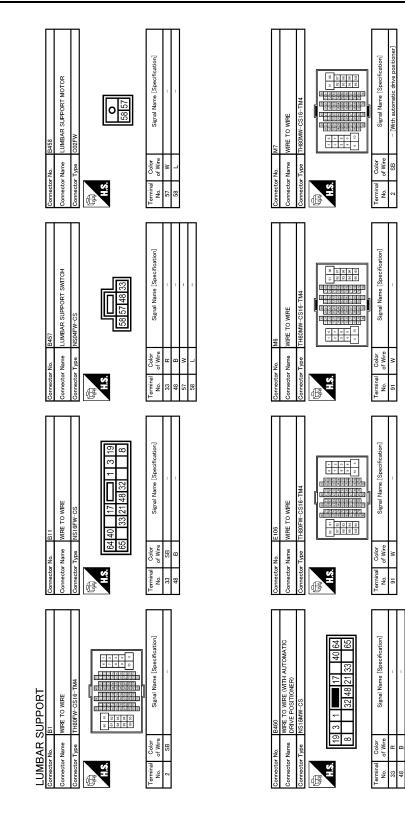
JCJWA0175GB

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# LUMBAR SUPPORT

#### < DTC/CIRCUIT DIAGNOSIS >



JCJWA0170GB

# LUMBAR SUPPORT

#### < DTC/CIRCUIT DIAGNOSIS >

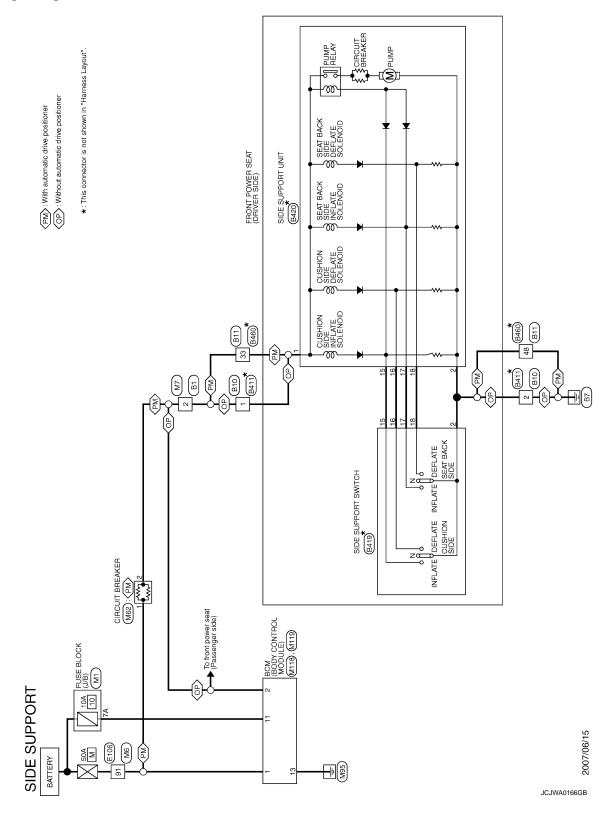
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LUMBAR 5 Connector Name Connector Name Connector Type	10 11/10/2/07	0
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< DTC/CIRCUIT DIAGNOSIS >

# SIDE SUPPORT

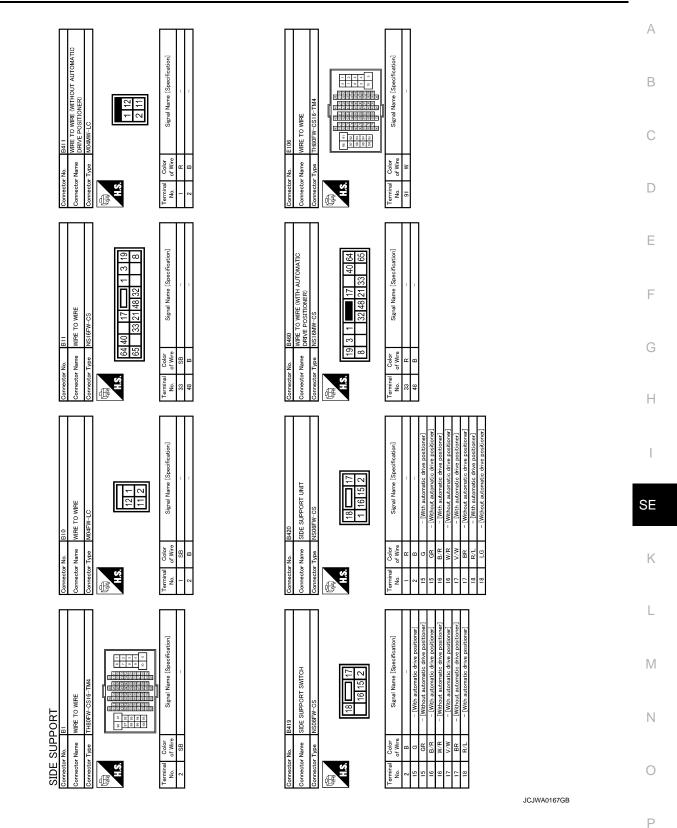
Wiring Diagram - SIDE SUPPORT SYSTEM -

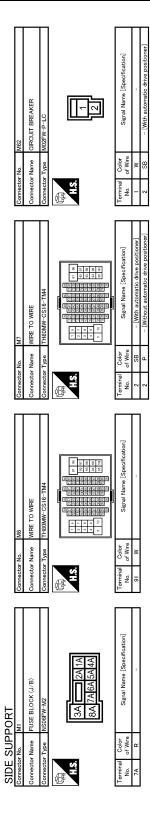
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# SIDE SUPPORT

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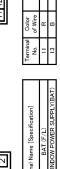






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nector Name

# AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

# ECU DIAGNOSIS INFORMATION AUTOMATIC DRIVE POSITIONER CONTROL UNIT

## **Reference Value**

INFOID:000000001831572

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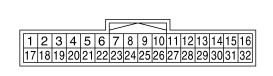
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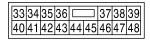
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#### **TERMINAL LAYOUT**







JMJIA0199ZZ



# PHYSICAL VALUES

Terminal No.		Wire	Description	Description			Voltage (V)	-
+	-	color	Signal name	Input/ Output	Condition		(Approx.)	G
1	Ground	Y	Tilt switch up signal	Input	Tilt switch	Operate (up)	0	Н
	Ground	I	n Thi switch up signal	input		Other than above	5	-
11	11 Ground	Fround GR	Telescopic switch forward	lenut Telesconis quite		Operate (forward)	0	-
11 Groun	Ground	GR	signal	input		Other than above	5	SE
17	Ground	Ground W Tilt switch down signal Input Tilt switch	Tilt owitch	Operate (down)	0	-		
17	Ground		V Tilt switch down signal	input fiits		Other than above	5	K
23	Cround	Ground P Telescopic sensor s	P Telescopic sensor signal Inp	Input	Telescopic position	Тор	0.8	-
23	Ground			Input		Bottom	3.4	- L
27	Ground	G	Telescopic switch back- ward signal	Input	Telescopic switch	Operate (backward)	0	- M
27 Gi	Ground	ind G				Other than above	5	- 111
33	Ground	W	Sensor power supply	Input			5	N
34	Ground	R	Power source (Fuse)	Input			Battery voltage	- 14
35 Groun	Ground	Ground L Tilt motor up	L Tilt motor up output signal	notor up output signal Output	t Steering tilt	Operate (up)	Battery voltage	0
	Ground					Other than above	0	-
36	Ground	Ground GR	GR Telescopic motor forward Output output signal	Output	ut Steering telescopic	Operate (forward)	Battery voltage	Ρ
				Output		Other than above	0	-
39	Ground	W	Power source (C/B)		—		Battery voltage	-
40	Ground	В	Ground	—	—		0	-
41	Ground	Y	Sensor ground	—	_		0	-

Revision: 2008 September

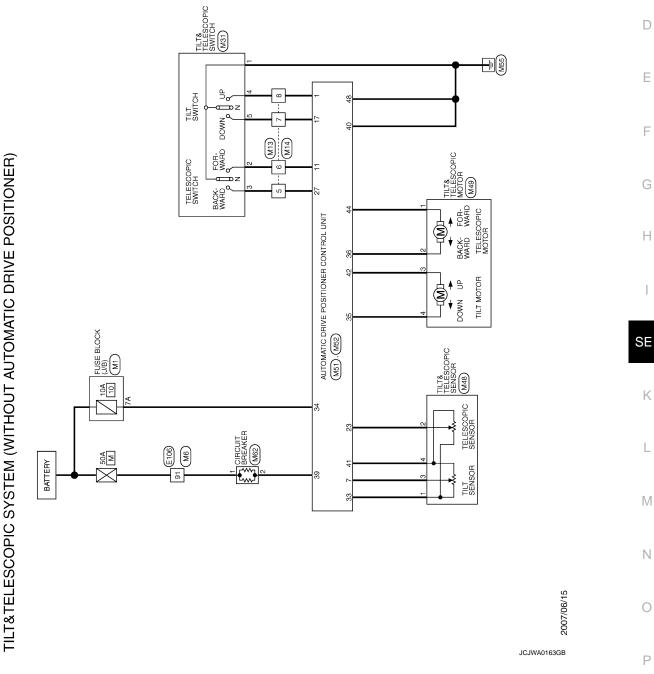
2008 G35 Sedan

# AUTOMATIC DRIVE POSITIONER CONTROL UNIT

#### < ECU DIAGNOSIS INFORMATION >

Teri	Terminal No.		nal No. Description				Voltage (V)	
+	-	color	Signal name	Input/ Output	Condition		(Approx.)	
42 (	Ground	I 0	Tilt motor down output sig- nal	Output	Steering tilt	Operate (down)	Battery voltage	
	Ground					Other than above	0	
44 Gr	Ground	Ind G Telescopic motor backward output signal	Telescopic motor backward	Output	tput Steering telescopic	Operate (backward)	Battery voltage	
	Giouna		Output		Other than above	0		
48	Ground	В	Ground	—	_		0	

# AUTOMATIC DRIVE POSITIONER CONTROL UNIT < ECU DIAGNOSIS INFORMATION > Wiring Diagram - TILT AND TELESCOPIC CONTROL SYSTEM -



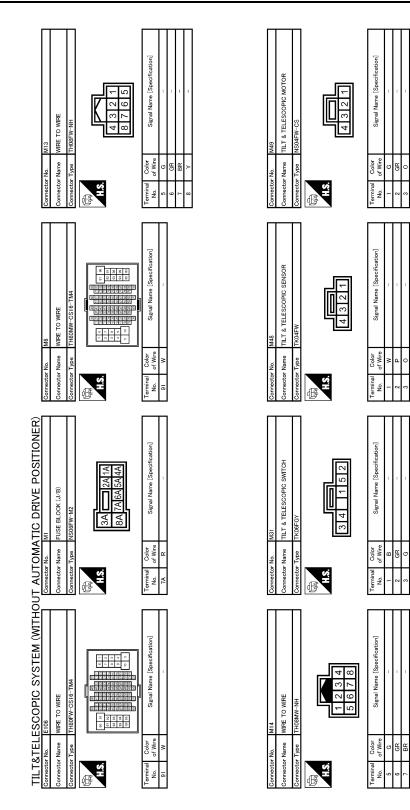
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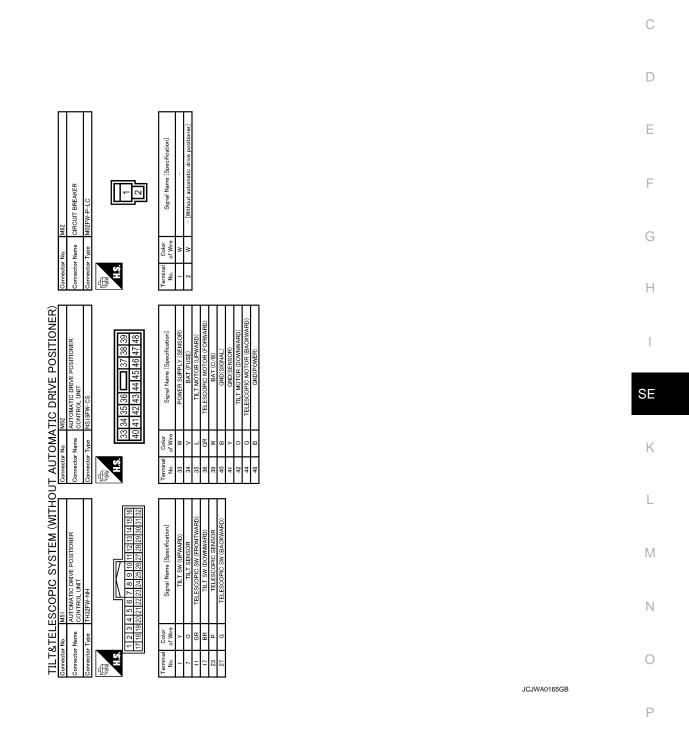
# AUTOMATIC DRIVE POSITIONER CONTROL UNIT

#### < ECU DIAGNOSIS INFORMATION >



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# STEERING POSITION FUNCTION DOES NOT OPERATE

#### < SYMPTOM DIAGNOSIS >

# SYMPTOM DIAGNOSIS

# STEERING POSITION FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000001831591

#### **1.**CHECK AUTOMATIC DRIVE POSITIONER CONTROL UNIT POWER SUPPLY AND GROUND CIRCUIT

Check automatic drive positioner control unit power supply and ground circuit. Refer to <u>SE-10, "AUTOMATIC DRIVE POSITIONER CONTROL UNIT : Component Function Check"</u>.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK TILT AND TELESCOPIC SWITCH

Check tilt and telescopic switch.

Refer to <u>SE-11. "Component Function Check"</u>.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

 ${f 3.}$ CHECK TILT AND TELESCOPIC SENSOR

Check tilt and telescopic sensor. Refer to <u>SE-15, "Component Function Check"</u>.

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to <u>GI-39, "Intermittent Incident"</u>.
- NO >> Repair or replace the malfunctioning parts.

# TILT FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >	
TILT FUNCTION DOES NOT OPERATE	A
Diagnosis Procedure	NFOID:000000001831592
1. CHECK TILT AND TELESCOPIC SWITCH	В
Check tilt switch. Refer to <u>SE-11, "Component Function Check"</u> .	
<u>Is the inspection result normal?</u> YES >> GO TO 2. NO >> Repair or replace the malfunctioning parts.	C
2. CHECK TILT AND TELESCOPIC MOTOR	D
Check tilt motor. Refer to <u>SE-13, "Component Function Check"</u> .	E
Is the inspection result normal?	
YES >> GO TO 3. NO >> Repair or replace the malfunctioning parts. <b>3.</b> CHECK TILT AND TELESCOPIC SENSOR	F
Check tilt sensor.	
Refer to <u>SE-15. "Component Function Check"</u> .	G
Is the inspection result normal?         YES       >> Check intermittent incident. Refer to GI-39. "Intermittent Incident".         NO       >> Repair or replace the malfunctioning parts.	н

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# **TELESCOPIC FUNCTION DOES NOT OPERATE**

< SYMPTOM DIAGNOSIS >

# TELESCOPIC FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000001831593

**1.**CHECK TILT AND TELESCOPIC SWITCH

Check telescopic switch. Refer to SE-11, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2. CHECK TILT AND TELESCOPIC MOTOR

Check telescopic motor. Refer to <u>SE-13, "Component Function Check"</u>.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

**3.**CHECK TILT AND TELESCOPIC SENSOR

Check telescopic sensor. Refer to <u>SE-15, "Component Function Check"</u>.

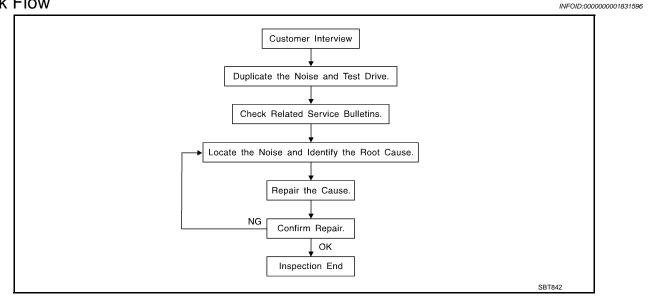
Is the inspection result normal?

- YES >> Check intermittent incident. Refer to GI-39. "Intermittent Incident".
- NO >> Repair or replace the malfunctioning parts.

#### < SYMPTOM DIAGNOSIS >

# SQUEAK AND RATTLE TROUBLE DIAGNOSES

#### Work Flow



#### 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 of customer's comments; refer to <u>SE-45</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, perform a diagnosis and repair the noise that the customer is concerned about. This can be accomplished by performing a cruise test on the vehicle with the customer.
- After identifying the type of noise, isolate the noise in terms of its characteristics. The noise characteristics SE 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 bumblebee)
   Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending up on 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

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.

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#### < SYMPTOM DIAGNOSIS >

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 models, drive position on A/T models).
- 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.

#### CHECK RELATED SERVICE BULLETINS

After verifying the customer concern or symptom, check ASIST for Technical Service Bulletins (TSBs) related 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 and mechanics stethoscope).
- 2. Narrow down the noise to a more specific area and identify the cause of the noise by:
- 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 fastener can be broken or lost during the repair, resulting in the creation of new noise.
- 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.
- Looking for loose components and contact marks.

Refer to <u>SE-43. "Inspection Procedure"</u>.

#### REPAIR THE CAUSE

- 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.
- 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. NOTE:

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  $\times$  135 mm (3.94  $\times$  5.31 in)/76884-71L01: 60  $\times$  85 mm (2.36  $\times$  3.35 in)/76884-71L02:15  $\times$  25 mm (0.59  $\times$  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,  $50 \times 50$  mm (1.97  $\times$  1.97 in)/73982-

50Y00: 10 mm (0.39 in) thick,  $50 \times 50$  mm (1.97  $\times$  1.97 in)

INSULATOR (Light foam block)

80845-71L00: 30 mm (1.18 in) thick,  $30 \times 50$  mm (1.18  $\times$  1.97in)

FELT CLOTHTAPE

Used to insulate where movement does not occur. Ideal for instrument panel applications. 68370-4B000:  $15 \times 25 \text{ mm} (0.59 \times 0.98 \text{ in}) \text{ pad/68239-13E00: } 5 \text{ mm} (0.20 \text{ in}) \text{ wide tape roll}$ 

The following materials, not found in the kit, can also be used to repair squeaks and rattles. UHMW (TEFLON) TAPE

#### < SYMPTOM DIAGNOSIS > Insulates where slight movement is present. Ideal for instrument panel applications. SILICONE GREASE А Used in place of UHMW tape that will be visible or not fit. Will only last a few months. SILICONE SPRAY Use when grease cannot be applied. В 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. Inspection Procedure D INFOID:000000001831597 Refer to Table of Contents for specific component removal and installation information. INSTRUMENT PANEL Е Most incidents are caused by contact and movement between: 1. The cluster lid A and instrument panel F Acrylic lens and combination meter housing Instrument panel to front pillar garnish Instrument panel to windshield Instrument panel mounting pins Wiring harnesses behind the combination meter A/C defroster duct and duct joint Н 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 silicon 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. SE CENTER CONSOLE Components to pay attention to include: Κ 1. Shifter assembly cover to finisher A/C control unit and cluster lid C Wiring harnesses behind audio and A/C control unit L The instrument panel repair and isolation procedures also apply to the center console. DOORS Pay attention to the: M 1. Finisher and inner panel making a slapping noise Inside handle escutcheon to door finisher Ν 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. TRUNK Ρ Trunk noises are often caused by a loose jack or loose items put into the trunk by the owner. In addition look for: Trunk lid dumpers out of adjustment

- 2. Trunk lid striker out of adjustment
- 3. The trunk lid torsion bars knocking together
- 4. A loose license plate or bracket

#### < SYMPTOM DIAGNOSIS >

Most of these incidents can be repaired by adjusting, securing or insulating the item(s) or component(s) causing the noise.

#### SUNROOF/HEADLINING

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. Sunvisor shaft shaking in the holder
- 3. Front or rear windshield touching headlining 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.

#### SEATS

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.

Cause of seat noise include:

- 1. Headrest rods and holder
- 2. A squeak between the seat pad cushion and frame
- 3. The rear seatback lock and bracket

These noises can be isolated by moving or pressing on the suspected components while duplicating the conditions under which the noise occurs. Most of these incidents can be repaired by repositioning the component or applying urethane tape to the contact area.

#### **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 under hood noise include:

- 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.

< SYMPTOM DIAGNOSIS >

**Diagnostic Worksheet** 



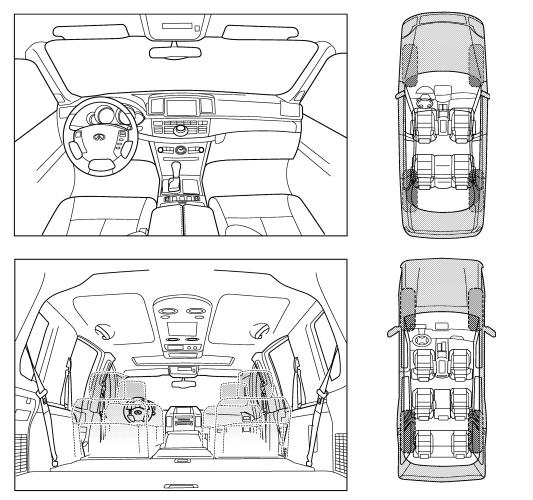
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

#### Dear Infiniti Customer:

We are concerned about your satisfaction with your Infiniti vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your Infiniti 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 consultant or technician to ensure we confirm the noise you are hearing.

#### 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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#### < SYMPTOM DIAGNOSIS >

#### SQUEAK & RATTLE DIAGNOSTIC WORKSHEET - page 2

Briefly describe the location where the noise occurs:

II. WHEN DOES IT OCCUR? (please check the boxes that apply)				
<ul> <li>anytime</li> <li>1st time in the morning</li> <li>only when it is cold outside</li> </ul>	<ul> <li>after sitting out in the rain</li> <li>when it is raining or wet</li> <li>dry or dusty conditions</li> </ul>			
only when it is hot outside	other:			
III. WHEN DRIVING:	IV. WHAT TYPE OF NOISE			
<ul> <li>through driveways</li> <li>over rough roads</li> <li>over speed bumps</li> <li>only about mph</li> <li>on acceleration</li> <li>coming to a stop</li> <li>on turns: left, right or either (circle)</li> <li>with passengers or cargo</li> <li>other:</li> </ul>	<ul> <li>squeak (like tennis shoes on a clean floor)</li> <li>creak (like walking on an old wooden floor)</li> <li>rattle (like shaking a baby rattle)</li> <li>knock (like a knock at the door)</li> <li>tick (like a clock second hand)</li> <li>thump (heavy, muffled knock noise)</li> <li>buzz (like a bumble bee)</li> </ul>			
after driving miles or minu	tes			

#### TO BE COMPLETED BY DEALERSHIP PERSONNEL

**Test Drive Notes:** 

	YES	NO	Initials of person performing
Vehicle test driven with customer - Noise verified on test drive - Noise source located and repaired - Follow up test drive performed to confirm repair			
		me:	

# < PRECAUTION > PRECAUTION PRECAUTIONS

Precaution 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 AIR BAG" and "SEAT BELT" 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 AIR BAG".
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

#### PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

#### WARNING:

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the stattery, and wait at least 3 minutes before performing any service.

#### Service Notice

- When removing or installing various parts, place a cloth or padding onto the vehicle body to prevent scratches.
- Handle trim, molding, instruments, grille, etc. carefully during removing or installing. Be careful not to oil or damage them.
- Apply sealing compound where necessary when installing parts.
- When applying sealing compound, be careful that the sealing compound does not protrude from parts.
- When replacing any metal parts (for example body outer panel, members, etc.), be sure to take rust preven- M tion measures.

#### Precaution for Work

- 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.

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# PRECAUTIONS

< PRECAUTION >

- 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, and gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

# PREPARATION

# < PREPARATION >

# PREPARATION PREPARATION

# **Special Service Tool**

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	_
(J39570) Chassis ear	SIIA0993E	Locating the noise	
(J43980) NISSAN Squeak and Rattle Kit	SIIA0994E	Repairing the cause of noise	
Commercial Service Tools		INFOID:000000031193;	6
Tool name		Description	

Tool name		Description	SE
Engine ear	SIIA0995E	Locating the noise	K
Remover tool	A MAM	Remove clips, pawls, metal clips	Μ
	PIIB7923J		Ν
			0

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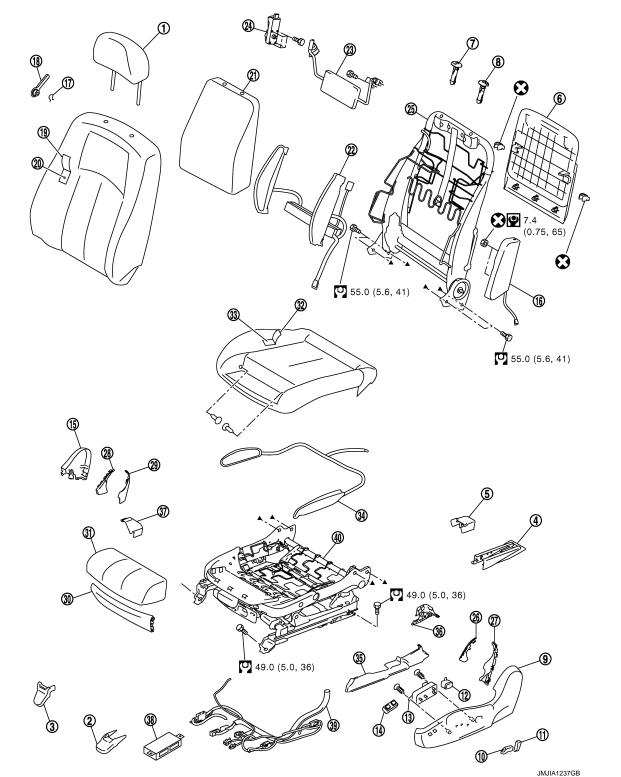
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# REMOVAL AND INSTALLATION FRONT SEAT

# Exploded View

DRIVER'S SEAT

SEC. 870



INFOID:000000001831605

#### < REMOVAL AND INSTALLATION >

- 1. Headrest
- 4. Rear outer slide cover
- 7. Headrest holder (free)
- 10. Seat slide and lifter switch knob
- 13. Seat control switch
- 16. Side air bag module
- 19. Seatback trim
- 22. Seatback side support bag and unit
- 25. Seatback frame
- 28. Reclining device inner cover (front)
- 31. Thigh extension pad
- 34. Seat cushion side support bag
- 37. Seat slide inner finisher

40. Seat cushion frame

Refer to GI-4, "Components" for symbols in the figure.

#### PASSENGER'S SEAT

- 2. Front outer slide cover
- 5. Rear inner slide cover
- 8. Headrest holder (locked)
- 11. Seat reclining switch knob
- Side support switch 14.
- 17. Snap ring
- 20. Seatback pad
- 23. Lumbar support unit
- 26. Reclining device outer cover (front)
- 29. Reclining device inner cover (rear)
- 32. Seat cushion trim
- 35. Seat slide outer finisher (outside)
- 38. Seat control unit

- Front inner slide cover Seatback board Seat cushion outer finisher 12. Lumbar support switch В Seat cushion inner finisher 15. 18. Lumbar support lever knob 21. Seatback silencer 24. Lumbar support motor 27. Reclining device outer cover (rear) Seat cushion front finisher D
- 30. 33. Seat cushion pad

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- 36. Seat slide outer finisher (inside)
- 39. Seat harness

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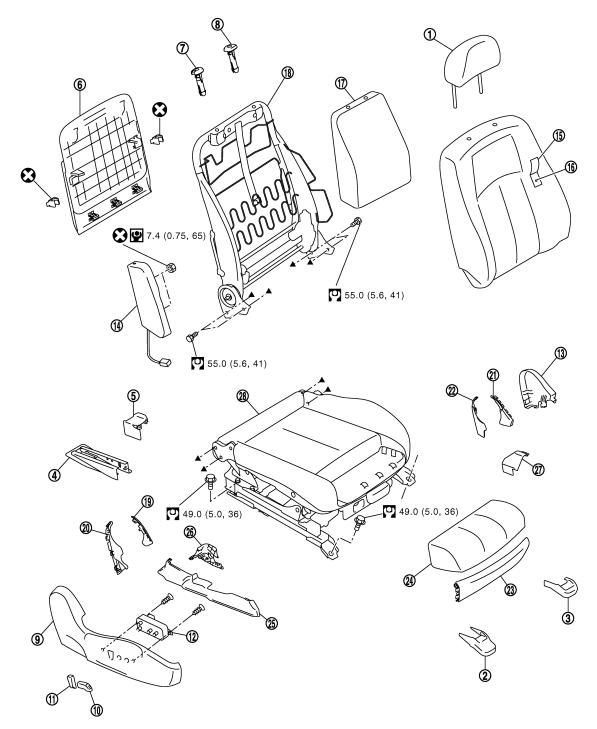
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SEC. 870



- 1. Headrest
- 4. Rear outer slide cover
- 7. Headrest holder (free)
- 10. Seat slide and lifter switch knob
- 13. Seat cushion inner finisher
- 16. Seatback pad

- 2. Front outer slide cover
- 5. Rear inner slide cover
- 8. Headrest holder (locked)
- 11. Seat reclining switch knob
- 14. Side air bag module
- 17. Seatback silencer

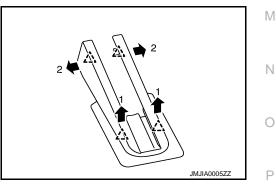
- JMJIA1238GB
- 3. Front inner slide cover
- 6. Seatback board
- 9. Seat cushion outer finisher
- 12. Seat control switch
- 15. Seatback trim
- 18. Seatback frame

**SE-52** 

## < REMOVAL AND INSTALLATION >

- 19. Reclining device outer cover (front) 20. Reclining device outer cover (rear) 21. Reclining device inner cover (front) А 22. Reclining device inner cover (rear) 23. Seat cushion front finisher 24. Thigh extension pad 25. Seat slide outer finisher (outside) 26. Seat slide outer finisher (inside) 27. Seat slide inner finisher 28. Seat cushion assembly В Refer to GI-4, "Components" for symbols in the figure. Removal and Installation INFOID:000000001831606 REMOVAL CAUTION: When removing and installing, use shop cloths to protect parts from damage. D Remove the headrest. 1. 2. Remove the front slide cover. Ε Front outer slide cover a. · Slide the seat to the rearmost position. • Pull up the front edge of the front slide cover to release the pawls. F • Slide the front slide cover forward to release the pawls. Pawl زِرْ Н JMJIA0003ZZ Front inner slide cover b. Slide the seat to the rearmost position. · Pull up the front edge of the front slide cover to release the pawls. • Slide the front slide cover forward to release the pawls. SE :Pawl Κ JMJIA0004ZZ L Remove the mounting bolts on the front side of the front seat.
- 4. Remove the rear slide cover.
- a. Rear outer slide cover
  - Slide the seat to the foremost position.
  - Pull up the rear edge of the rear outer slide cover to release the pawls.
  - Open the front end of the rear outer slide cover to release the pawls.

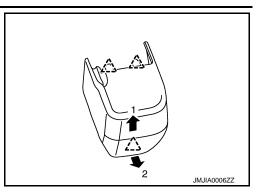
2 :Pawl



#### < REMOVAL AND INSTALLATION >

- b. Rear inner slide cover
  - Slide the seat to the foremost position.
  - Pull up the rear edge of the rear inner slide cover to release the pawls.
  - Slide the rear inner slide cover rearward to release the pawls.

```
Pawl :
```



- 5. Remove the mounting bolts on the rear side of the front seat.
- 6. Set seatback in a standing position.
- 7. Disconnect harness connector under the seat and remove harness securing clips. CAUTION:

Before removal, turn ignition switch OFF, disconnect both battery cables, and then wait for at least 3 minutes.

8. Remove seat from the vehicle. CAUTION:

When removing and installing, use shop cloths to protect parts from damage.

#### INSTALLATION

Install in the reverse order of removal.

#### **CAUTION:**

- Before installation, turn ignition switch OFF, disconnect both battery cables, and then wait for at least 3 minutes.
- Clamp the harness in position.

#### NOTE:

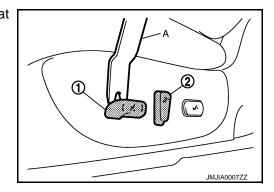
After installing the driver seat, perform additional service when removing battery negative terminal.(Automatic drive positioner model only) Refer to <u>ADP-8</u>, "<u>ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGA-</u><u>TIVE TERMINAL : Description</u>".

#### Disassembly and Assembly

#### SEATBACK

#### Disassembly

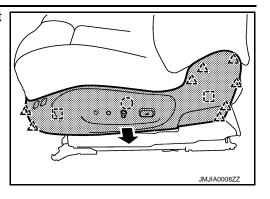
- 1. Remove the seat cushion outer finisher.
  - Remove the seat slide and lifter switch knob (1) and seat reclining switch knob (2). Using a remover tool (A).



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#### < REMOVAL AND INSTALLATION >

- · Remove the metal clips, clips and pawls, and then pull out seat cushion outer finisher.
  - ( ) : Clip
  - : Metal clip
  - 八 :Pawl



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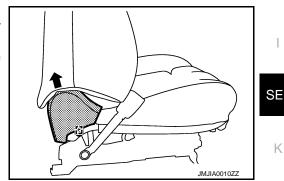
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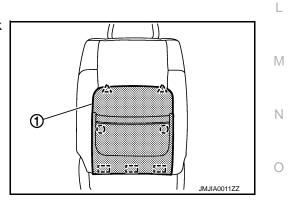
· Disconnect the seat control switch, lumbar support switch and side support switch harness connector.

- Remove the reclining device outer cover (front, rear).
- 2. Remove the seat cushion inner finisher.
  - Remove the reclining device inner covers (front, rear) by releasing the metal clip and pull it up together with the cover.
  - Remove the relining device inner covers (front, rear) from the seat cushion inner finisher by releasing the pawls.
    - : Metal clip



- 3. Remove the back board.
  - Remove the metal clips and clips, and then pull out seatback board (1).
  - Pull down the seatback board to release the upper pawls.

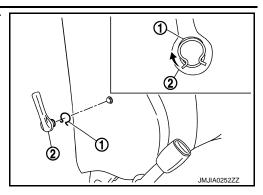




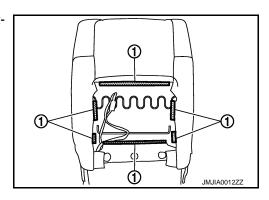
Remove the lumbar support lever knob.(Manual lumbar support model only.) 4.

#### < REMOVAL AND INSTALLATION >

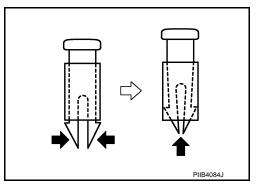
Pull snap ring (1) upward, and remove lumbar support lever knob (2) from seatback frame.



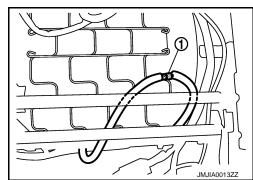
- 5. Remove the seatback pad and trim.
  - Remove the seatback retainer (1) on the back side of the seatback.



 Remove the headrest holder.
 CAUTION: Before installing headrest holder check its orientation. (front/rear and right/left)



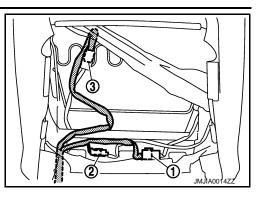
- Remove the side air bag module.
- Remove the side support hose joint (1) located under the seat cushion.(Side support model only.)



• Disconnect the seatback heater unit harness connector.

#### < REMOVAL AND INSTALLATION >

- Disconnect the reclining motor harness connector (1) and remove the harness clamp.
- Disconnect the lumbar support motor harness connector (2) and remove the harness clamp.(Power lumbar support model only.)
- Disconnect the side support unit harness connector (3) and remove the harness clamp.(Side support model only.)



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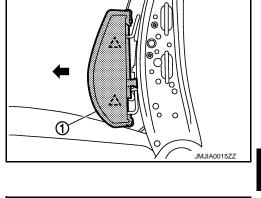
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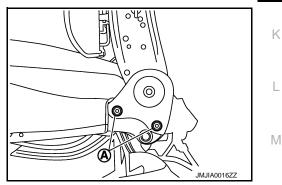
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- Remove the seatback pad and seatback trim from the seatback frame.
- Remove the hog rings, and separate the trim and pad.
- 6. Remove the seatback silencer.
- 7. Remove the lumbar support motor.(Power lumbar support model only.)
  - Remove the bolts, and then remove lumbar support unit.
  - Remove the screws, and then remove lumbar support motor.
- 8. Remove the side support bag and unit. (Side support model only.)
  - Remove the pawls, and then remove side support bag (1).
  - Remove the side support unit.

2 : Pawl

 Remove the seatback frame. Remove the seatback frame mounting bolt (A).





Assembly

Assemble in the reverse order of disassembly.

**CAUTION:** 

Install the hog rings of seatback trim in position, and then securely connect the trim or trim cord with the pad side wire.

#### SEAT CUSHION

#### Disassembly

#### CAUTION:

Do not disassemble front passenger seat cushion assembly.

#### Always replace as an assembly.

For front passenger seat service parts, refer to the service part catalogue.

1. Remove the seat cushion outer finisher.

#### < REMOVAL AND INSTALLATION >

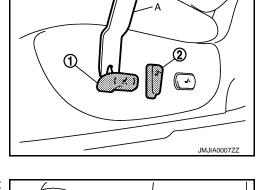
• Remove the seat slide and lifter switch knob (1) and seat reclining switch knob (2).Using a remover tool (A).

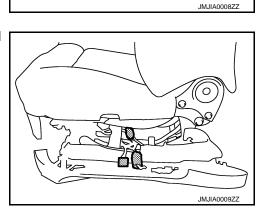
- Remove the metal clips, clips and pawls, and then pull out seat cushion outer finisher.
  - (<sup>ˆ</sup>) : Clip
    [<sup>ˆ</sup>] : Metal clip
    △ : Pawl
- Disconnect the seat control switch, lumbar support switch and side support switch harness connector.

- Remove the reclining device outer cover (front, rear).
- 2. Remove the seat cushion inner finisher.
  - Remove the reclining device inner covers (front, rear) by releasing the metal clip and pull it up together with the cover.
  - Remove the relining device inner covers (front, rear) from the seat cushion inner finisher by releasing the pawls.
    - [ ] : Metal clip

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3. Remove the seat cushion front finisher.





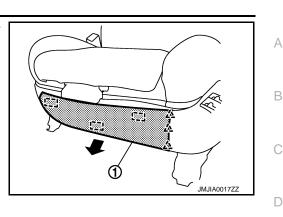
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#### < REMOVAL AND INSTALLATION >

Remove the metal clips, and then pull out seat cushion front finisher (1).

- : Metal clip
- : Pawl



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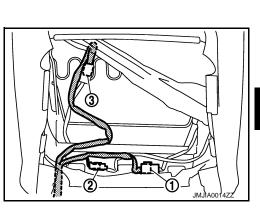
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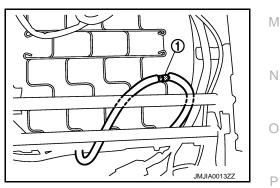
- 4. Remove the seatback board.
  - Remove the metal clips and clips, and then pull out seatback board (1).
  - Pull down the seatback board to release the upper pawls.



- Remove the seatback assembly.
  - Disconnect the reclining motor harness connector (1) and remove the harness clamp.
  - Disconnect the lumbar support motor harness connector (2) and remove the harness clamp.(Power lumbar support model only.)
  - Disconnect the side support unit harness connector (3) and remove the harness clamp. (Side support model only.)



- Remove the seat cushion retainer, and then side air bag harness clamp and seatback heater unit harness connector.
- Remove the side support hose joint (1) located under the seat cushion.(Side support model only.)



#### < REMOVAL AND INSTALLATION >

• Remove the seatback mounting bolts (A), and then remove the seatback assembly.

6. Remove the thigh extension.(Thigh extension model only.)• Remove the retainer.

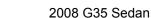
Revision: 2008 September

• Remove the hose clamp.

• Remove the retainer.

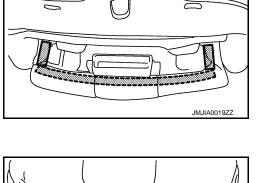
**SE-60** 

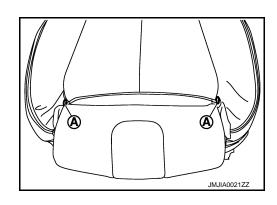
Disconnect the seat cushion heater unit harness connector.
Remove the hog rings, and separate the trim and pad.
8. Remove the side support bag.(Side support model only.)

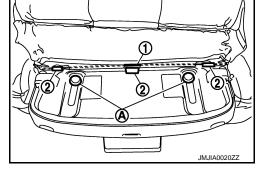


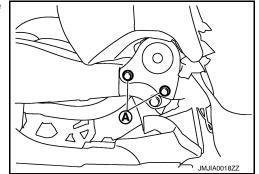
7. Remove the seat cushion pad and trim.• Remove the clip (A).(Thigh extension model only.)

- - Remove the thigh extension pad.
  - Remove the mounting screw (A).
  - Remove the seat cushion trim wire (1) from the hook (2).
  - Remove the thigh extension frame by sliding it.

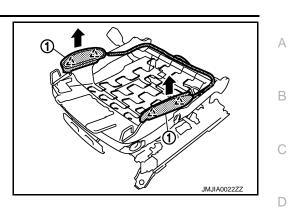




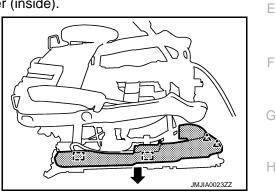




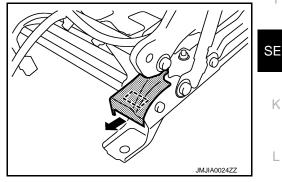
- Remove the pawls, and then remove side support bag (1).
  - ∠\_\_\_\_: Pawl



- 9. Remove the seat slide outer finisher.
  - Remove the metal clip and pawls, and then pull out seat slide outer finisher (outside).
  - Remove the metal clip, and then pull out seat slide outer finisher (inside).
    - : Metal clip



- 10. Remove the seat slide inner finisher. Remove the metal clip, and then pull out seat slide inner finisher.
  - : Metal clip 1 1



Assembly

Assemble in the reverse order of disassembly.

#### **CAUTION:**

Install the hog rings of seat cushion trim in position, and then securely connect the trim or trim cord with the pad side wire.

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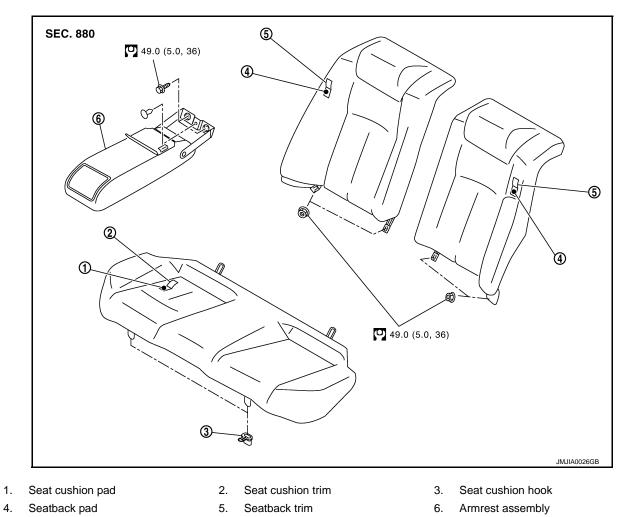
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# REAR SEAT

# Exploded View

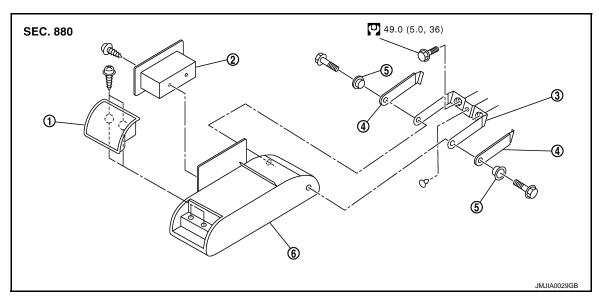
REAR SEAT

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Refer to <u>GI-4, "Components"</u> for symbols in the figure.

## ARMREST



# REAR SEAT

# < REMOVAL AND INSTALLATION >

1. Cup holder

2. Armrest side console

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- 3. Armrest bracket
- 6. Armrest trim and pad

Refer to <u>GI-4, "Components"</u> for symbols in the figure.

## Removal and Installation

4. Armrest bracket outer cover

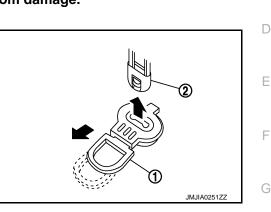
#### REMOVAL

#### **CAUTION:**

#### When removing and installing, use shop cloths to protect parts from damage.

5.

- 1. Remove the seat cushion.
  - Pull the lock lever (1) at the front bottom of the seat cushion forward (1 for each side), and pull the seat cushion upward to release the wire (2) from the seat cushion hook. Then pull the seat cushion forward to remove.
  - Remove the seat cushion from the vehicle.



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2.	<ul> <li>Remove the seatback.</li> <li>Remove the nuts under seatback.</li> <li>Lift up seatback from underneath, and then remove seatback from seatback hook that is fixed to the vehicle.</li> </ul>	Н
3.	Remove the seatback from the vehicle.     Remove the armrest assembly.	
0.	<ul> <li>Remove the fastener.</li> <li>Remove the armrest mounting bolts.</li> <li>Remove the clip.</li> <li>Remove the armrest assembly from the vehicle.</li> </ul>	SE
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	all in the reverse order of removal. UTION:	
Wh	en removing and installing, use shop cloths to protect parts from damage.	L
Dis	sassembly and Assembly	
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	assembly nove the hog rings, and separate the trim and pad.	Ν
	embly semble in the reverse order of disassembly.	IN
	AT CUSHION	0
	assembly move the hog rings, and separate the trim and pad.	D
	embly semble in the reverse order of disassembly.	Ρ
AR	MREST	
Disa	assembly	
1.	Remove the screws, and then remove the cup holder.	

2. Remove the screws, and then remove the armrest side console

- 3. Remove the bolts, and then remove the armrest bracket.
- 4. Remove the armrest bracket outer cover from armrest bracket.

#### Assembly

Assemble in the reverse order of disassembly.

# AUTOMATIC DRIVE POSITIONER CONTROL UNIT

## < REMOVAL AND INSTALLATION >

# AUTOMATIC DRIVE POSITIONER CONTROL UNIT

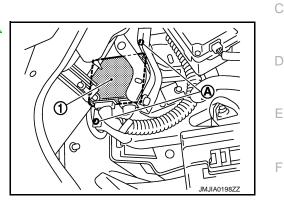
#### **Removal and Installation**

#### REMOVAL

#### CAUTION:

#### When removing and installing, use shop cloths to protect parts from damage.

- 1. Remove the battery negative terminal.
- 2. Remove the instrument driver lower panel. Refer to <u>IP-12</u>, <u>"Removal and Installation"</u>.
- 3. Remove the screws (A).
- 4. Remove automatic drive positioner control unit (1).



INSTALLATION Install in the reverse order of removal. CAUTION:

• Be sure to clamp the harness to the right place.

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# SEAT MEMORY SWITCH

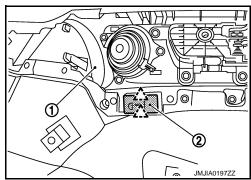
## Removal and Installation

REMOVAL

#### **CAUTION:** When removing and installing, use shop cloths to protect parts from damage.

- 1. Disconnect battery negative terminal.
- 2. Remove the front door finisher (1). Refer to <u>INT-11. "Removal</u> and <u>Installation"</u>.
- 3. Press pawls and remove seat memory switch (2) from front door finisher (1).

22: Pawl



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INSTALLATION

Install in the reverse order of removal. **CAUTION:** 

• Be sure to clamp the harness to the right place.

# POWER SEAT SWITCH

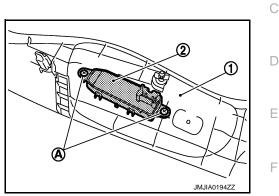
## Removal and Installation

## REMOVAL

#### CAUTION:

#### When removing and installing, use shop cloths to protect parts from damage.

- 1. Remove the seat cushion outer finisher (1). Refer to <u>SE-53.</u> <u>"Removal and Installation"</u>.
- 2. Remove the screws (A).
- 3. Remove the power seat switch (2) from the seat cushion outer finisher (1).



#### INSTALLATION Install in the reverse order of removal.

**CAUTION:** 

• Be sure to clamp the harness to the right place.

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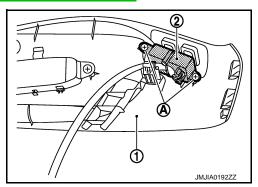
# SIDE SUPPORT SWITCH

# Removal and Installation

REMOVAL

#### **CAUTION:** When removing and installing, use shop cloths to protect parts from damage.

- 1. Remove the seat cushion outer finisher (1). Refer to <u>SE-53, "Removal and Installation"</u>.
- 2. Remove the screws (A).
- 3. Remove side support switch (2) from the seat cushion outer finisher.



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#### INSTALLATION Install in the reverse order of removal. CAUTION:

• Be sure to clamp the harness to the right place.

# LUMBAR SUPPORT SWITCH

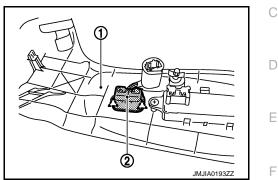
## Removal and Installation

#### REMOVAL

#### CAUTION:

#### When removing and installing, use shop cloths to protect parts from damage.

- 1. Remove the seat cushion outer finisher (1). Refer to <u>SE-53.</u> <u>"Removal and Installation"</u>
- 2. Remove lumbar support switch (2).



INSTALLATION Install in the reverse order of removal. CAUTION: • Be sure to clamp the harness to the right place.

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# TILT&TELESCOPIC SWITCH

## Removal and Installation

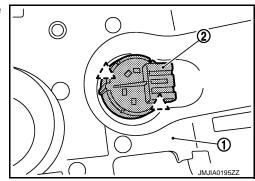
## REMOVAL

#### CAUTION:

#### When removing and installing, use shop cloths to protect parts from damage.

- 1. Disconnect battery negative terminal.
- 2. Remove the steering column mask (1). Refer to IP-12, "Removal and Installation".
- 3. Press pawls and remove tilt & telescopic switch (2) from the steering column mask (1).





INSTALLATION Install in the reverse order of removal. CAUTION: • Be sure to clamp the harness to the right place. INFOID:000000001831616