SECTION SE
SEAT

CONTENTS

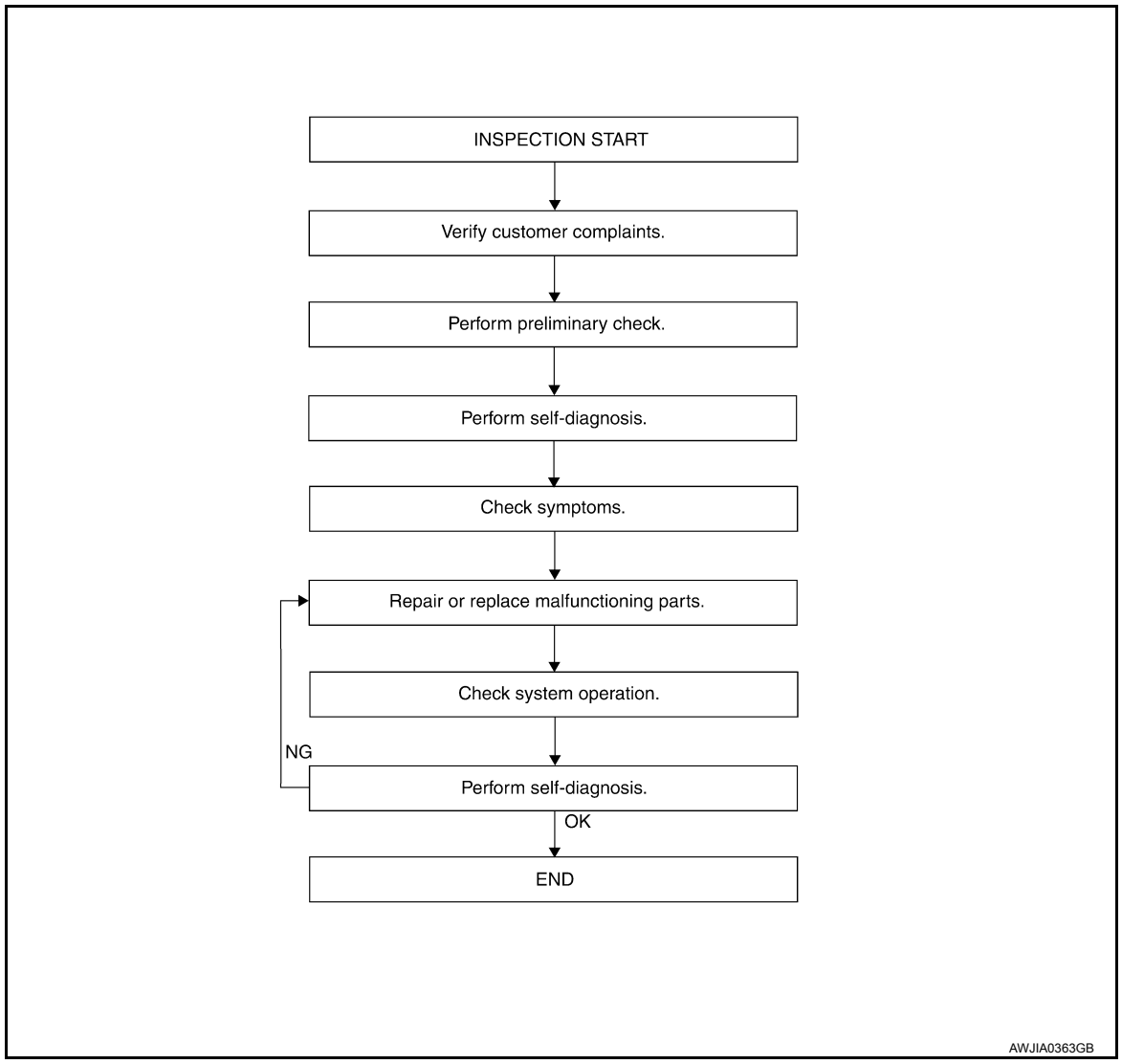
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:0000000009823486

WORK FLOW



DETAILED FLOW

1.CUSTOMER INFORMATION

Interview the customer to obtain detailed information about the symptom.

>> GO TO 2

2.PRELIMINARY CHECK

Perform preliminary check. Refer to SE-5, "Preliminary Check".

>> GO TO 3

3.SELF-DIAGNOSIS

Perform self-diagnosis. Refer to SE-13, "DTC Index".

>> GO TO 4

4.SYMPTOM

Check for symptoms. Refer to SE-38, "Symptom Table".

>> GO TO 5

5.MALFUNCTIONING PARTS

Repair or replace the applicable parts.

>> GO TO 6

6.SYSTEM OPERATION

Check system operation.

>> GO TO 7

7.SELF-DIAGNOSIS

Perform self-diagnosis. Refer to SE-13, "DTC Index".

Are any DTCs displayed?

YES >> GO TO 5
NO >> Inspection End.

INSPECTION AND ADJUSTMENT

Preliminary Check

INFOID:0000000009823487

1.FOREIGN OBJECTS

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

Are there any foreign objects that could be causing interference with the seats?

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

2.WIRING CONNECTIONS

1. Disconnect third row power folding seat control unit and seat motor harness connectors.
2. Check terminals for damage or loose connections.
3. Reconnect harness connectors.

Are any connectors damaged or loose?

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

3.POWER AND GROUND

Check power supply and ground circuits for third row power folding seat control unit. Refer to SE-9, "Power Supply and Ground Circuit Check for Third Row Power Folding Seat Control Unit".

Is the inspection result normal?

YES >> Refer to SE-13, "DTC Index".
NO >> Repair or replace as necessary.

SYSTEM DESCRIPTION

THIRD ROW POWER FOLDING SEAT

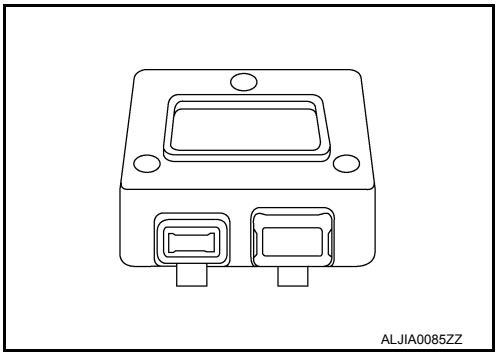
System Description

INFOID:0000000009823488

The third row power folding seat system is capable of allowing a user to fold up or down either the left or right third row seat using a set of front or rear mounted switches.

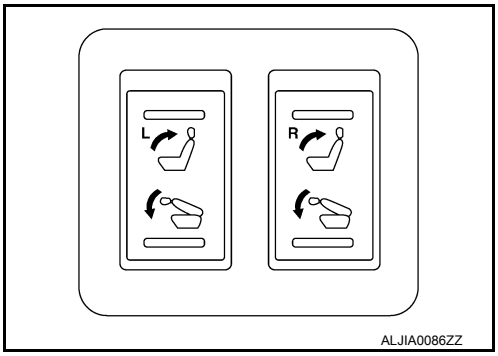
THIRD ROW POWER FOLDING SEAT CONTROL UNIT

The third row power folding seat control unit is located in the control unit/cross beam assembly underneath the LH third row seat. It receives signals from the third row power folding seat switches, TCM and the Hall effect switches mounted in the LH and RH seat motors. The control unit has self-diagnosis capability through chime codes and may be accessed by turning the ignition switch ON and OFF three times. The control unit drives the LH and RH seat motors to fold them up and down.



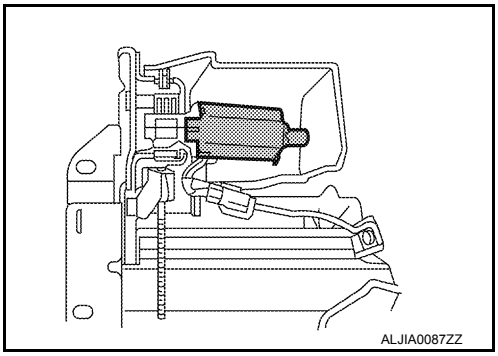
THIRD ROW POWER FOLDING SEAT SWITCH

The third row power folding seat switches are located in pairs on the luggage side finisher RH. A switch must be held in order for the seat to move.



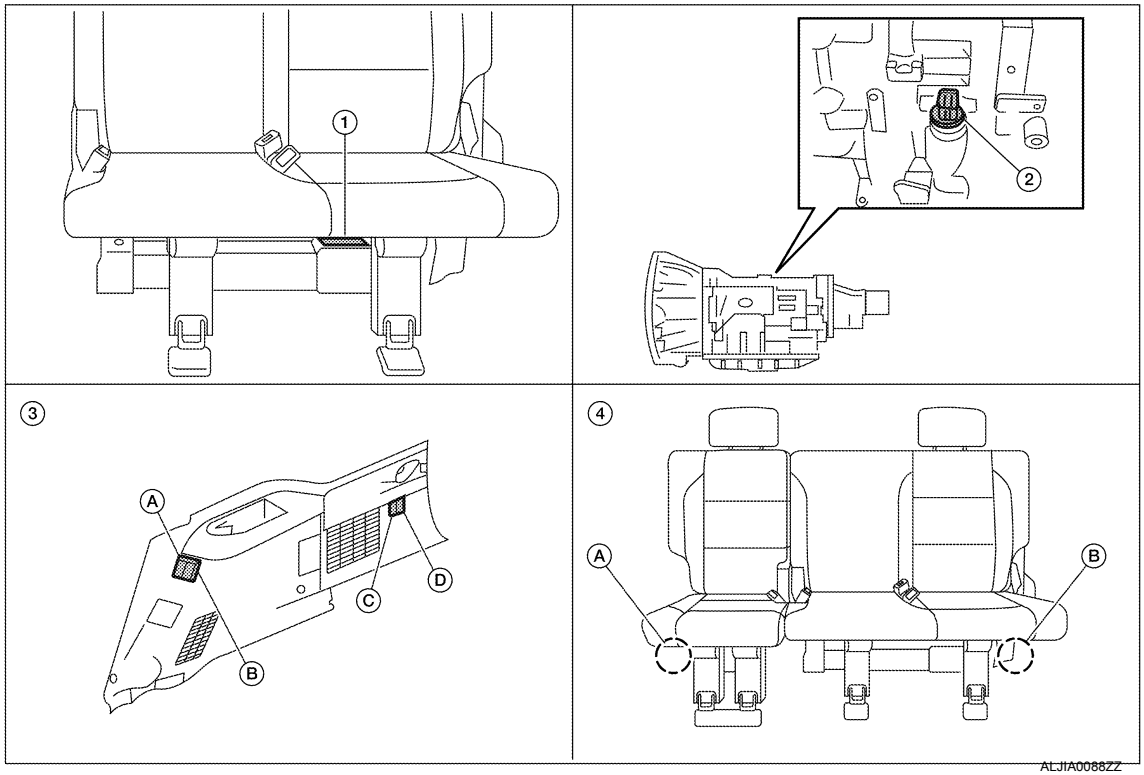
THIRD ROW POWER FOLDING SEAT MOTORS

The third row power folding seat motors are located in the seat motor/hinge assembly. There are two motors, one for LH and one for RH seat folding operations. Power and ground are provided to the motors by the third row power folding seat control unit. The control unit reverses polarity to the motors to raise or lower the seat. The motors also contain Hall effect switches. These switches send signals back to the control unit which help it determine fully open and closed positions.



Component Parts Location

INFOID:0000000009823489



1. Third row power folding seat control unit B401, B402
2. A/T assembly F9
3. Third row power folding seat switches
   A: Third row power folding seat switch driver side (front) B164
   B: Third row power folding seat switch passenger side (front) B162
   C: Third row power folding seat switch driver side (rear) B165
   D: Third row power folding seat switch passenger side (rear) B163
4. Third row power folding seat motors
   A: RH (40%) seat B426
   B: LH (60%) seat B403

Component Description

INFOID:0000000009823490

Component	Function
Third row power folding seat control unit	• Receive inputs from third row power folding seat switches and A/T assembly (transmission range switch) • Drive third row power folding seat motors • Performs self-diagnostics
A/T assembly	Provide transmission range switch signal to third row power folding seat control unit
Third row power folding seat switches	Provide fold up/fold down ground signals to third row power folding seat control unit
Third row power folding seat motors	• Fold seats up and down • Provide feedback signals to third row power folding seat control unit

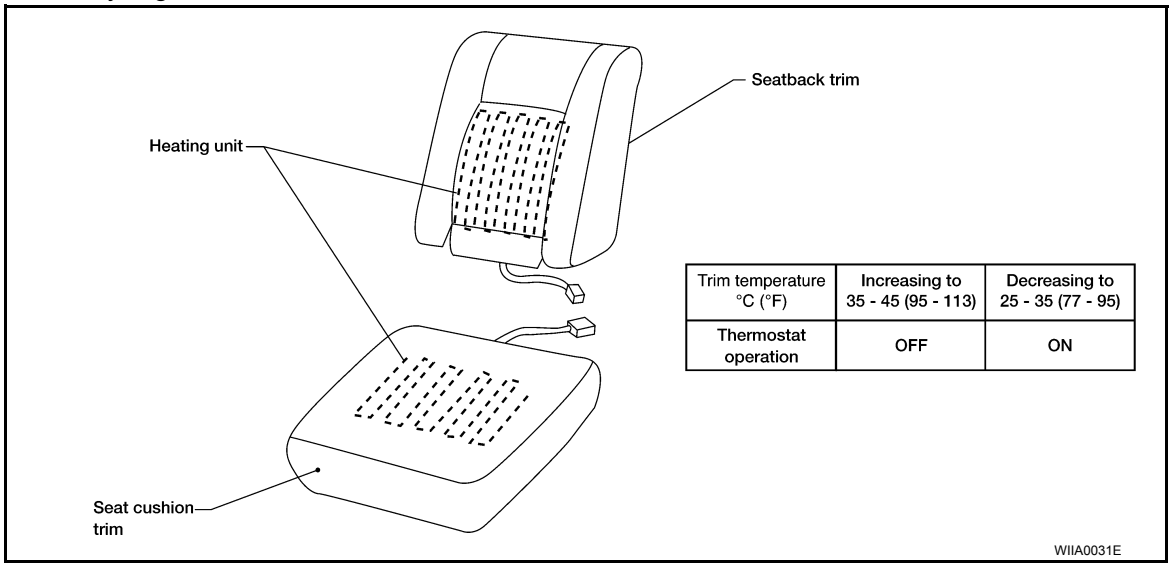
DTC/CIRCUIT DIAGNOSIS

HEATED SEAT

Description

INFOID:0000000009823491

- When handling seat, be extremely careful not to scratch heating unit.
- Front passenger seat cushion and seatbacks equipped with airbags cannot be disassembled. They are replaced as assemblies only.
- Do not use any organic solvent, such as thinner, benzene, alcohol, etc. to clean trim.



Trim temperature °C (°F)	Increasing to 35 - 45 (95 - 113)	Decreasing to 25 - 35 (77 - 95)
Thermostat operation	OFF	ON

THIRD SEAT

Power Supply and Ground Circuit Check for Third Row Power Folding Seat Control Unit

INFOID:0000000009823492

Regarding Wiring Diagram information, refer to SE-31, "Wiring Diagram".

1.CHECK FUSES AND FUSIBLE LINK

Check for blown fuses or fusible link.

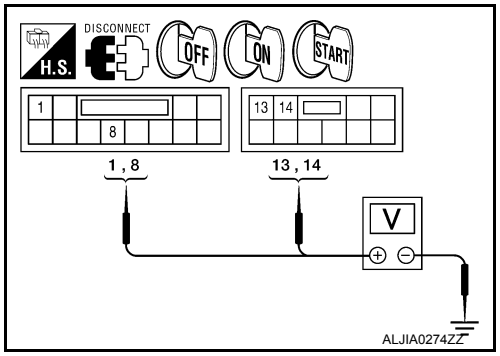
Unit	Power source	Fuse or Fusible Link	Location
Third row power folding seat control unit	Battery	F	Fuse and fusible link box
		19	Fuse block (J/B)
	Ignition switch ON or START	14	

Are any fuses or fusible links blown?

YES >> Install new fuse. Eliminate cause of malfunction if fuse blows again.
NO >> GO TO 2

2.POWER SUPPLY CIRCUIT CHECK

1. Disconnect third row power folding seat control unit connectors B401 and B402.
2. Check voltage between third row power folding seat control unit harness connectors B401, B402 terminals 1, 8, 13, 14 and ground.



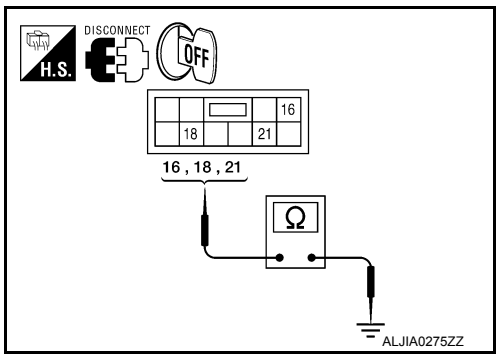
Terminals			Ignition switch position		
(+)		(–)	OFF	ON	START
Connector	Terminal				
A: B401	1	Ground	Battery voltage		
	8		0V	Battery voltage	
B: B402	13		Battery voltage		
	14		Battery voltage		

Are the inspection results normal?

YES >> GO TO 3
NO >> Check harness for open between third row power folding seat control unit and fuse or fusible link.

3.GROUND CIRCUIT CHECK

1. Turn ignition switch OFF.
2. Check continuity between third row power folding seat control unit harness connector B402 terminals 16, 18, 21 and ground.



Terminals			Continuity
(+)		(–)	
Connector	Terminal		

B402	16	Ground	Yes
	18		
	21		

Do all terminals have ground?

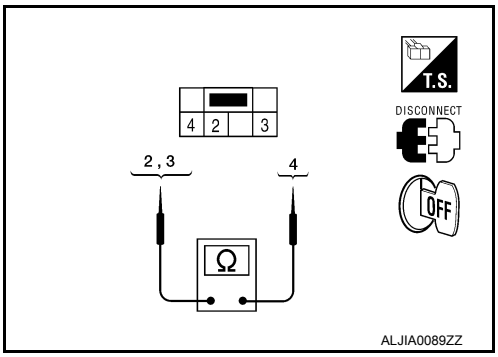
YES >> Inspection End.
NO >> Repair or replace harness.

Third Row Power Folding Seat Switch

INFOID:0000000009823493

1.CHECK THIRD ROW POWER FOLDING SEAT SWITCH OPERATION

1. Turn ignition switch OFF.
2. Disconnect third row power folding seat switch.
3. Check continuity between third row power folding seat switch terminals 2, 3 and 4.



Terminals		Condition	Continuity
2	4	Press switch button to fold up.	Yes
3	4	Press switch button to fold down.	Yes

Do you have continuity?

YES >> Inspection End.
NO >> Replace third row power folding seat switch. Refer to INT-24, "Removal and Installation".

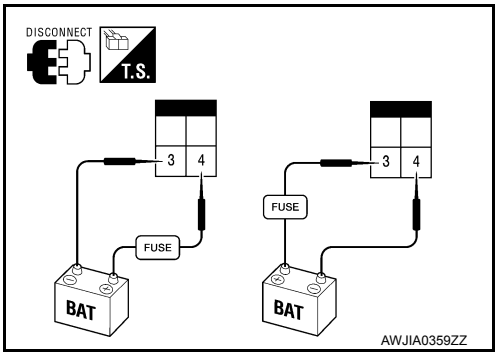
Third Row Power Folding Seat Motor

INFOID:0000000009823494

1.CHECK MOTOR OPERATION

1. Turn ignition switch OFF.
2. Disconnect third row power folding seat motor connector B403 or B426.
3. Check operation by applying battery voltage to motor terminals 3 and 4.

CAUTION:
- **Do not operate motor for more than 3 seconds.**
- **Be careful not to overheat the harness.**
- **Third row power folding seat control unit may have to relearn fold up/down positions after testing.**



LH (60%) seat		
Terminal	Motor	Seat
3 (Battery positive) - 4 (Battery negative)	Rotates counter-clockwise	Up
4 (Battery positive) - 3 (Battery negative)	Rotates clockwise	Down

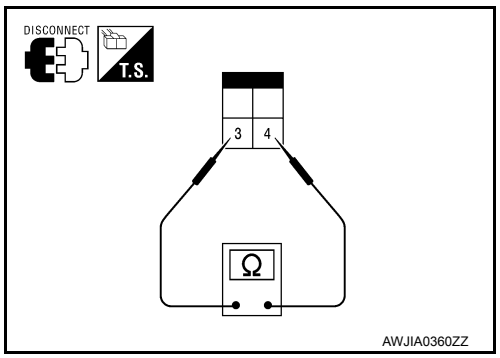
RH (40%) seat		
Terminal	Motor	Seat
3 (Battery positive) - 4 (Battery negative)	Rotates counter-clockwise	Up
4 (Battery positive) - 3 (Battery negative)	Rotates clockwise	Down

Does the motor rotate in both directions?

YES >> GO TO 2.
NO >> Replace third row power folding seat motor. Refer to SE-78, "Exploded View".

2.CHECK RESISTANCE IN MOTOR

Check resistance between motor terminals 3 and 4.



3 - 4 : Approx. 0.5 Ω

Is the resistance reading of the motor normal?

YES >> Inspection End.
NO >> Replace third row power folding seat motor. Refer to SE-78, "Exploded View".

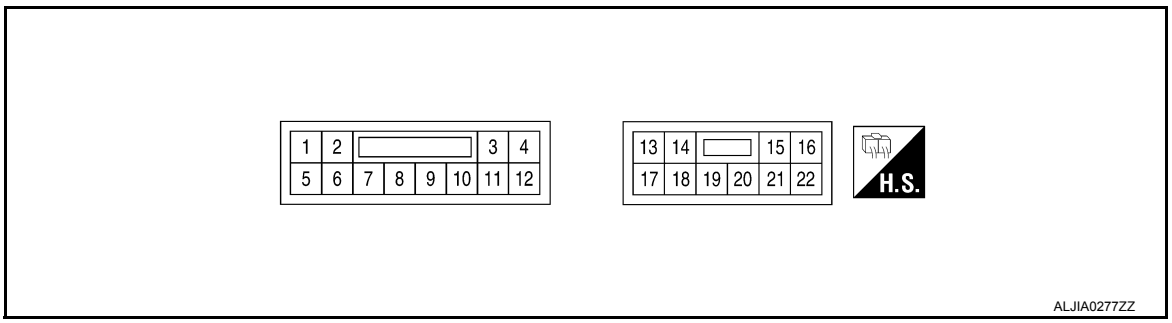
ECU DIAGNOSIS INFORMATION

THIRD ROW POWER FOLDING SEAT CONTROL UNIT

Reference Value

INFOID:0000000009823495

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No.		Wire color	Description		Condition	Voltage (V) (Approx.)
+	-		Signal name	Input/ Output		
1	Ground	Y/R	Battery	Input	—	Battery voltage
3	Ground	LG	40% seat switch signal (down)	Output	Push either third row power folding seat switch RH (down)	0
					Third row power folding seat switch (RH) released	Battery voltage
4	Ground	V	60% seat switch signal (down)	Output	Push either third row power folding seat switch LH (down)	0
					Third row power folding seat switch (LH) released	Battery voltage
7	Ground	G/R	Park signal	Input	A/T selector lever in P or N	Battery voltage
					A/T selector lever not in P or N	0
8	Ground	O/L	Ignition signal	Input	Ignition switch ON or START	Battery voltage
					Ignition switch OFF	0
9	Ground	G/B	40% seat Hall signal	Input	—	9V
10	Ground	O/B	60% seat Hall signal	Input	—	9V
11	Ground	SB	40% seat switch signal (up)	Output	Push either third row power folding seat switch RH (up)	0
					Third row power folding seat switch (RH) released	Battery voltage
12	Ground	O	60% seat switch signal (up)	Output	Push either third row power folding seat switch LH (up)	0
					Third row power folding seat switch (LH) released	Battery voltage
13	Ground	W	Battery	Input	—	Battery voltage
14	Ground	W	Battery	Input	—	Battery voltage
15	Ground	Y/B	Hall switch ground	—	—	—
16	Ground	B	Switch ground	—	—	—
17	Ground	W/L	60% Seat motor	Output	—	Battery voltage
18	Ground	B	Ground	—	—	—
19	Ground	R/W	60% Seat motor	Output	—	Battery voltage

Terminal No.		Wire color	Description		Condition	Voltage (V) (Approx.)
+	-		Signal name	Input/ Output		
20	Ground	G/W	40% Seat motor	Output	—	Battery voltage
21	Ground	B	Ground	—	—	—
22	Ground	V	40% Seat motor	Output	—	Battery voltage

DTC Index

INFOID:0000000009823496

NOTE:
To initiate a chime code sequence cycle, turn the ignition switch ON and OFF 3 times within 5 seconds. The first digit will chime, then a pause, followed by the second digit. For example, a code 13 will have 1 chime, followed by a pause, and then 3 chimes. The third row power folding seat control unit will clear all codes that have been corrected after 255 ignition cycles.

DTC	Malfunction	Service Procedure
11	LH seat has traveled past normal fold down position	1. Perform Preliminary Check. Refer to SE-5, "Preliminary Check". 2. Check third row power folding seat motor LH Hall signal and ground circuits. Refer to SE-44, "Third Row Power Folding Seat Stops Short of it's Fully Up or Down Position". 3. Replace third row power folding seat motor LH. Refer to SE-78, "Exploded View".
12	LH seat has traveled past normal fold up position	
13	LH seat actuation cycle has taken too long and timed out	1. Perform Preliminary Check. Refer to SE-5, "Preliminary Check". 2. Check third row power folding seat motor LH motor circuits. Refer to SE-40, "Only One Third Row Power Folding Seat Will Operate". 3. Replace third row power folding seat motor LH. Refer to SE-78, "Exploded View".
14	Third row power folding seat control unit NVRAM data for LH seat position has been corrupted	Replace third row power folding seat control unit. Refer to SE-81, "Removal and Installation - Power Seat Cross Beam".
15	Power supply to third row power folding seat control unit has been interrupted during LH seat fold up/down cycle	1. Perform Preliminary Check. Refer to SE-5, "Preliminary Check". 2. Replace third row power folding seat control unit. Refer to SE-81, "Removal and Installation - Power Seat Cross Beam".
21	RH seat has traveled past normal fold down position	1. Perform Preliminary Check. Refer to SE-5, "Preliminary Check". 2. Check third row power folding seat motor RH Hall signal and ground circuits. Refer to SE-44, "Third Row Power Folding Seat Stops Short of it's Fully Up or Down Position". 3. Replace third row power folding seat motor RH. Refer to SE-78, "Exploded View".
22	RH seat has traveled past normal fold up position	
23	RH seat actuation cycle has taken too long and timed out	1. Perform Preliminary Check. Refer to SE-5, "Preliminary Check". 2. Check third row power folding seat motor RH motor circuits. Refer to SE-40, "Only One Third Row Power Folding Seat Will Operate". 3. Replace third row power folding seat motor RH. Refer to SE-78, "Exploded View".
24	Third row power folding seat control unit NVRAM data for RH seat position has been corrupted	Replace third row power folding seat control unit. Refer to SE-81, "Removal and Installation - Power Seat Cross Beam".

DTC	Malfunction	Service Procedure
25	Power supply to third row power folding seat control unit has been interrupted during RH seat fold up/down cycle	1. Perform Preliminary Check. Refer to SE-5, "Preliminary Check". 2. Replace third row power folding seat control unit. Refer to SE-81, "Removal and Installation - Power Seat Cross Beam".
33	System normal or END of chime codes	—

Fail Safe

INFOID:0000000009823497

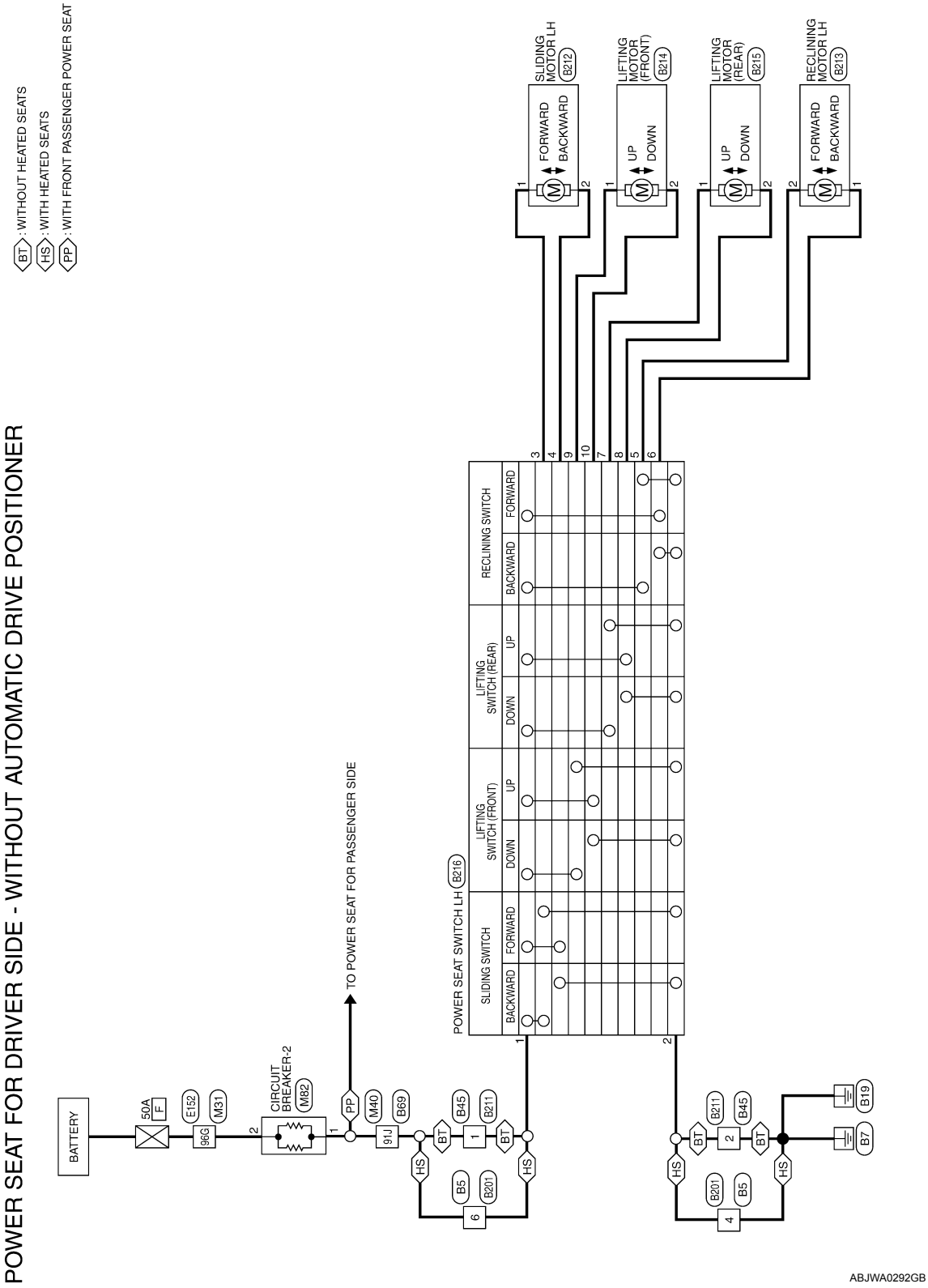
The third row power folding seat will not operate under the following conditions:
- Power supply to the third row power folding seat control unit falls below 9.0V
- One of the third row power folding seat switches is stuck closed
- The A/T selector lever is not in PARK position and the ignition switch is ON

WIRING DIAGRAM

POWER SEAT

Wiring Diagram - Driver Side Without Automatic Drive Positioner

INFOID:0000000009823498



POWER SEAT FOR DRIVER SIDE CONNECTORS - WITHOUT AUTOMATIC DRIVE POSITIONER

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

H.S.

1G	2G	3G	4G	5G
6G	7G	8G	9G	10G

11G	12G	13G	14G	15G	16G	17G	18G	19G	20G	21G
	22G	23G	24G	25G	26G	27G	28G	29G	30G	
31G	32G	33G	34G	35G	36G	37G	38G	39G	40G	41G
	42G	43G	44G	45G	46G	47G	48G	49G	50G	
51G	52G	53G	54G	55G	56G	57G	58G	59G	60G	61G
	62G	63G	64G	65G	66G	67G	68G	69G	70G	
71G	72G	73G	74G	75G	76G	77G	78G	79G	80G	81G
	82G	83G	84G	85G	86G	87G	88G	89G	90G	
				91G	92G	93G	94G	95G		
				96G	97G	98G	99G	100G		

Terminal No.	Color of Wire	Signal Name
96G	W/B	–

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

H.S.

				5J
1J	2J	3J	4J	
6J	7J	8J	9J	10J

11J	12J	13J	14J	15J	16J	17J	18J	19J	20J	21J
	22J	23J	24J	25J	26J	27J	28J	29J	30J	
31J	32J	33J	34J	35J	36J	37J	38J	39J	40J	41J
	42J	43J	44J	45J	46J	47J	48J	49J	50J	
51J	52J	53J	54J	55J	56J	57J	58J	59J	60J	61J
	62J	63J	64J	65J	66J	67J	68J	69J	70J	
71J	72J	73J	74J	75J	76J	77J	78J	79J	80J	81J
	82J	83J	84J	85J	86J	87J	88J	89J	90J	
				91J	92J	93J	94J	95J		
				96J	97J	98J	99J	100J		

Terminal No.	Color of Wire	Signal Name
91J	L/B	–

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

H.S.

1
2

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

ABJIA0662GB

Connector No.	B45
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

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

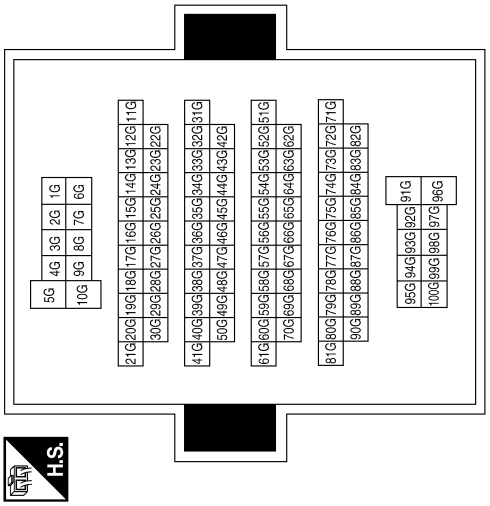
Connector No.	B5
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
4	B/W	–
6	L/B	–

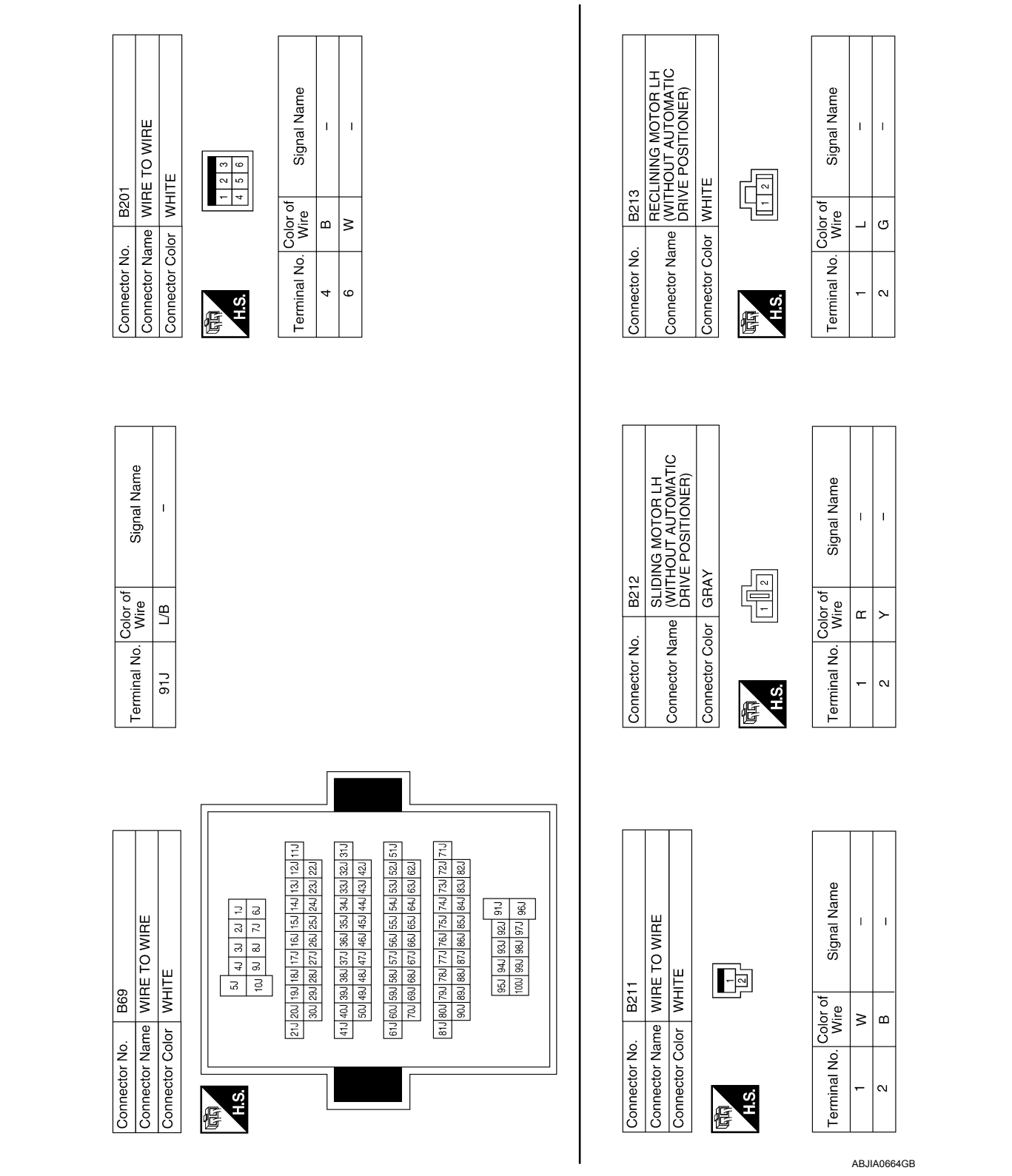
Connector No.	E152
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
96G	W/B	–

ABJIA0663GB



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Connector No.	B214
Connector Name	LIFTING MOTOR (FRONT) (WITHOUT AUTOMATIC DRIVE POSITIONER)
Connector Color	GRAY

H.S.

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

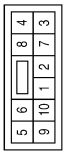
Connector No.	B215
Connector Name	LIFTING MOTOR (REAR) (WITHOUT AUTOMATIC DRIVE POSITIONER)
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	V	–
2	W/G	–

Connector No.	B216
Connector Name	POWER SEAT SWITCH LH (WITHOUT AUTOMATIC DRIVE POSITIONER)
Connector Color	WHITE

H.S.

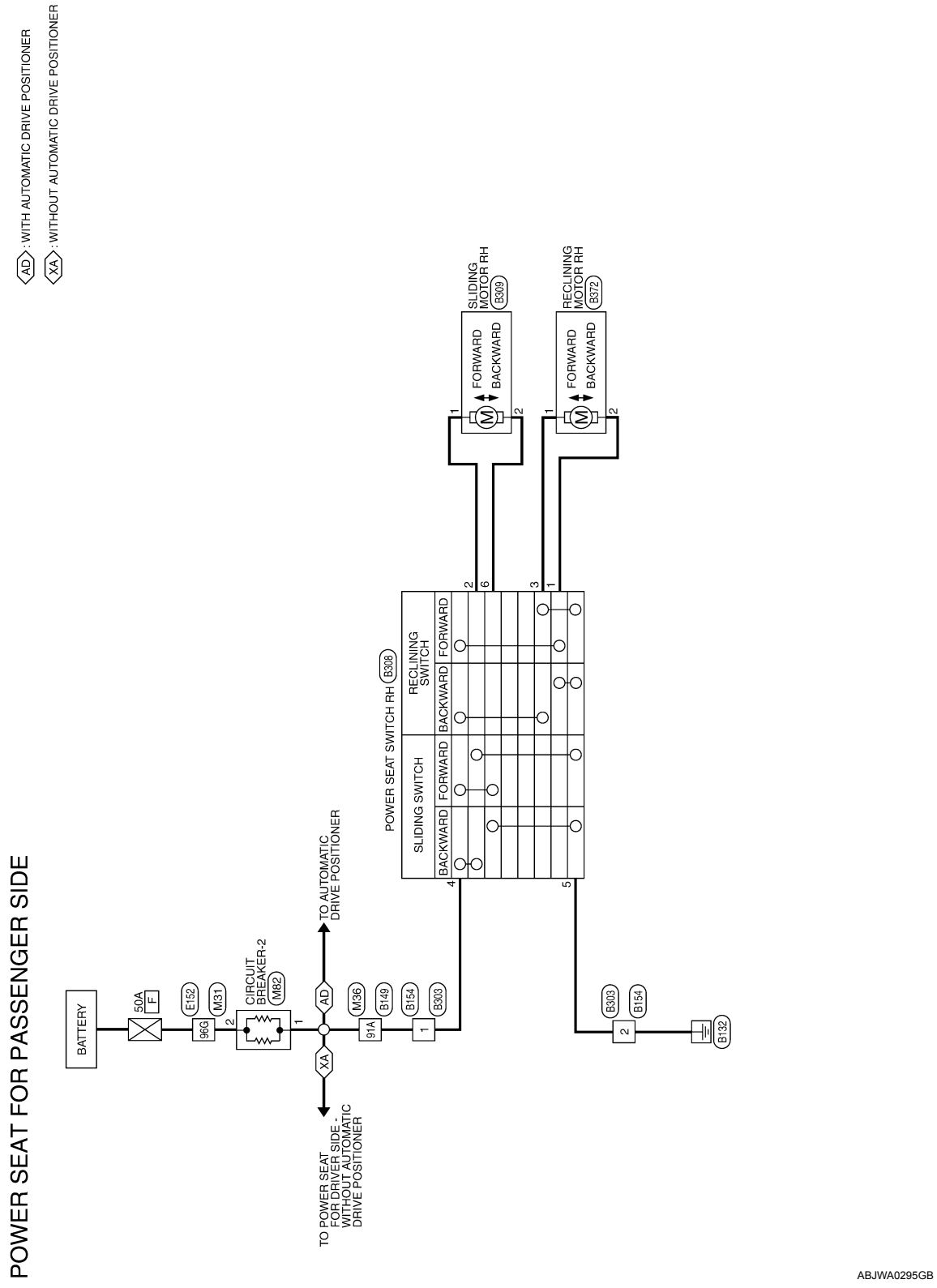


Terminal No.	Color of Wire	Signal Name
1	W	–
2	B	–
3	R	–
4	Y	–
5	G	–
6	L	–
7	V	–
8	W/G	–
9	B/Y	–
10	R/Y	–

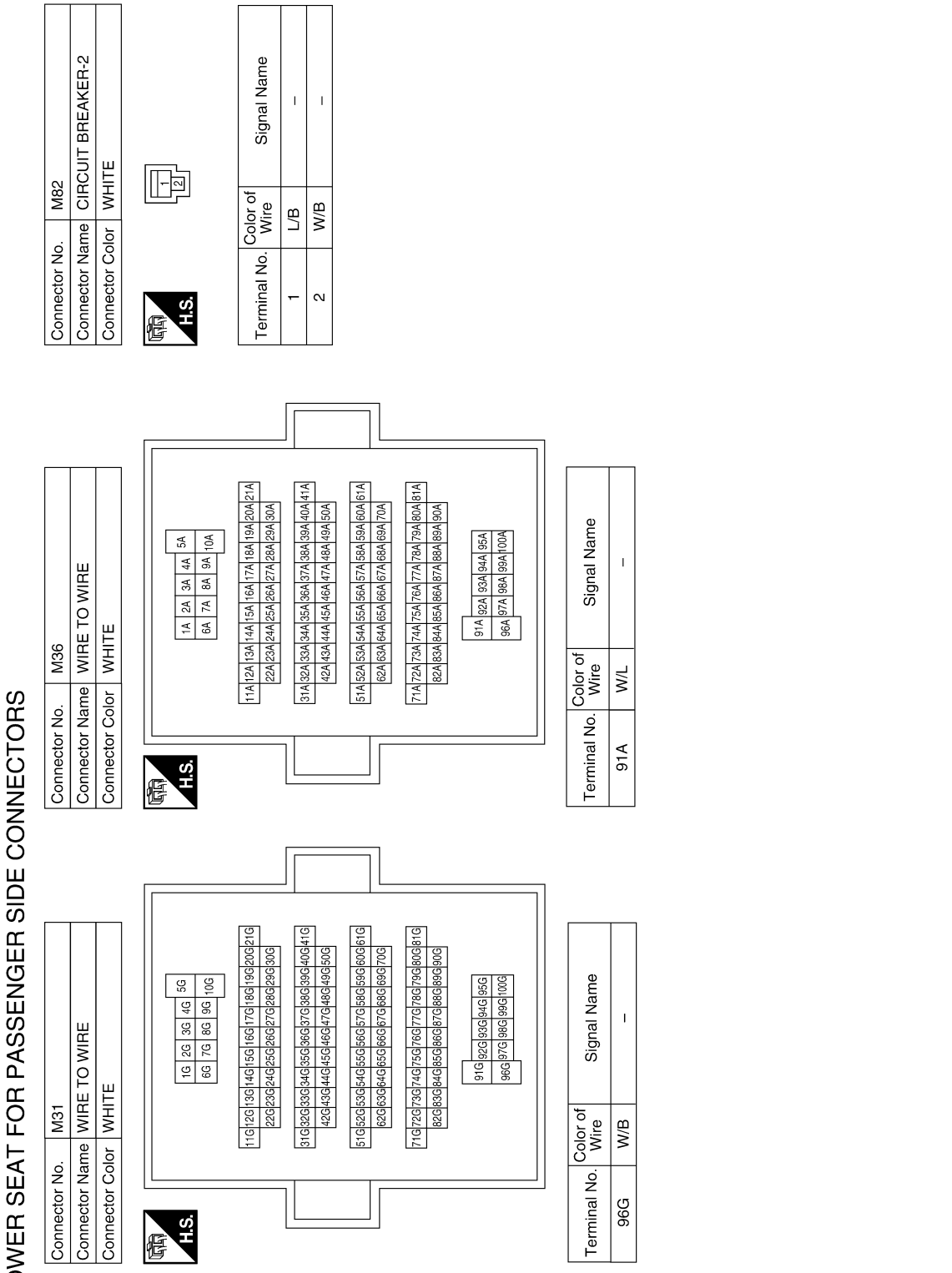
ABJIA0665GB

Wiring Diagram - Passenger Side

INFOID:0000000009823499



POWER SEAT FOR PASSENGER SIDE CONNECTORS



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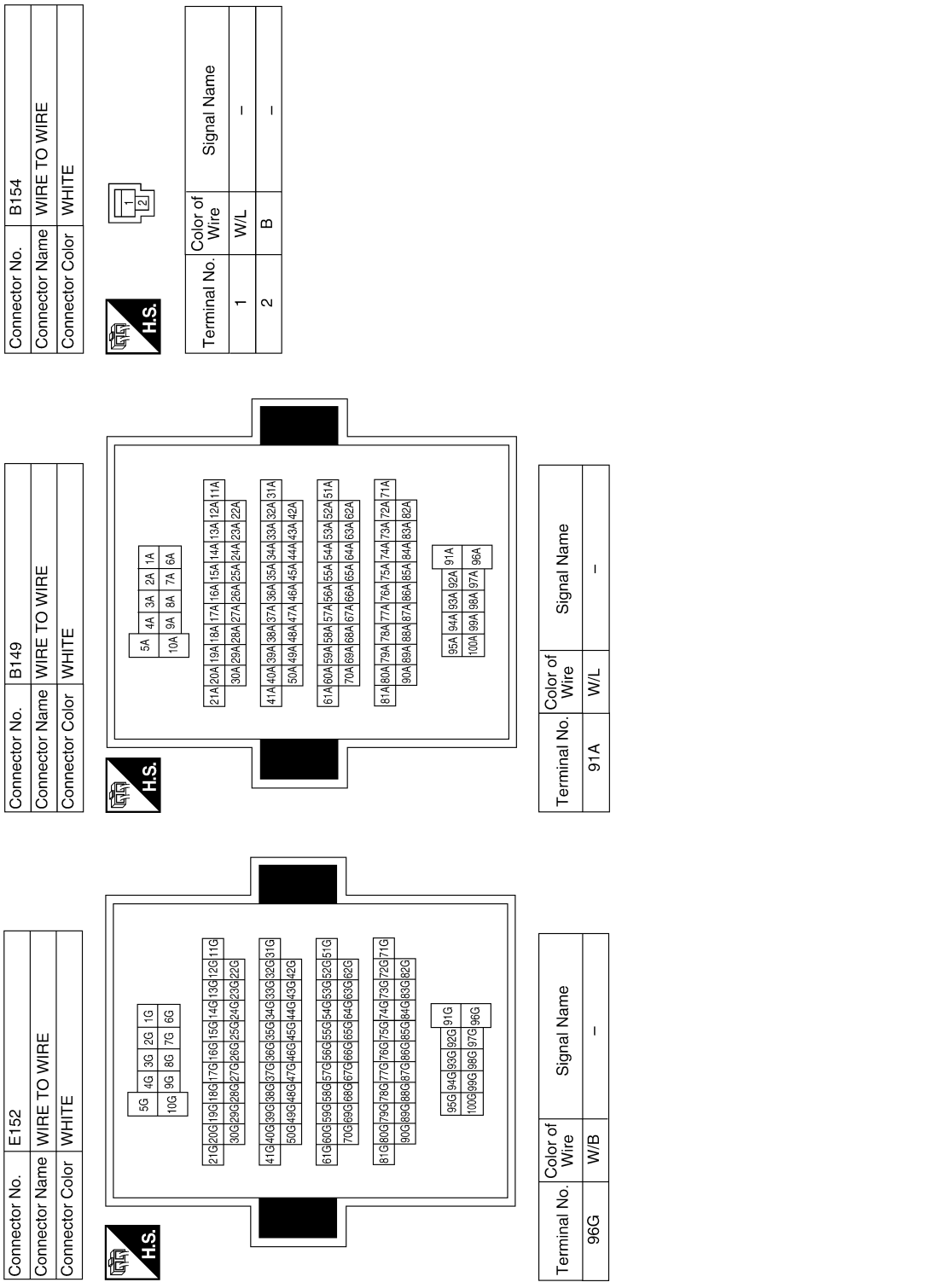


ABJIA0673GB

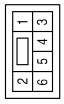
Connector No.	B303
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

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

Connector No.	B308
Connector Name	POWER SEAT SWITCH RH
Connector Color	WHITE

H.S.



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

Connector No.	B309
Connector Name	SLIDING MOTOR RH
Connector Color	GRAY

H.S.

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

Connector No.	B372
Connector Name	RECLINING MOTOR RH
Connector Color	WHITE

H.S.

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

ABJIA0677GB

< WIRING DIAGRAM >

HEATED SEAT

Wiring Diagram

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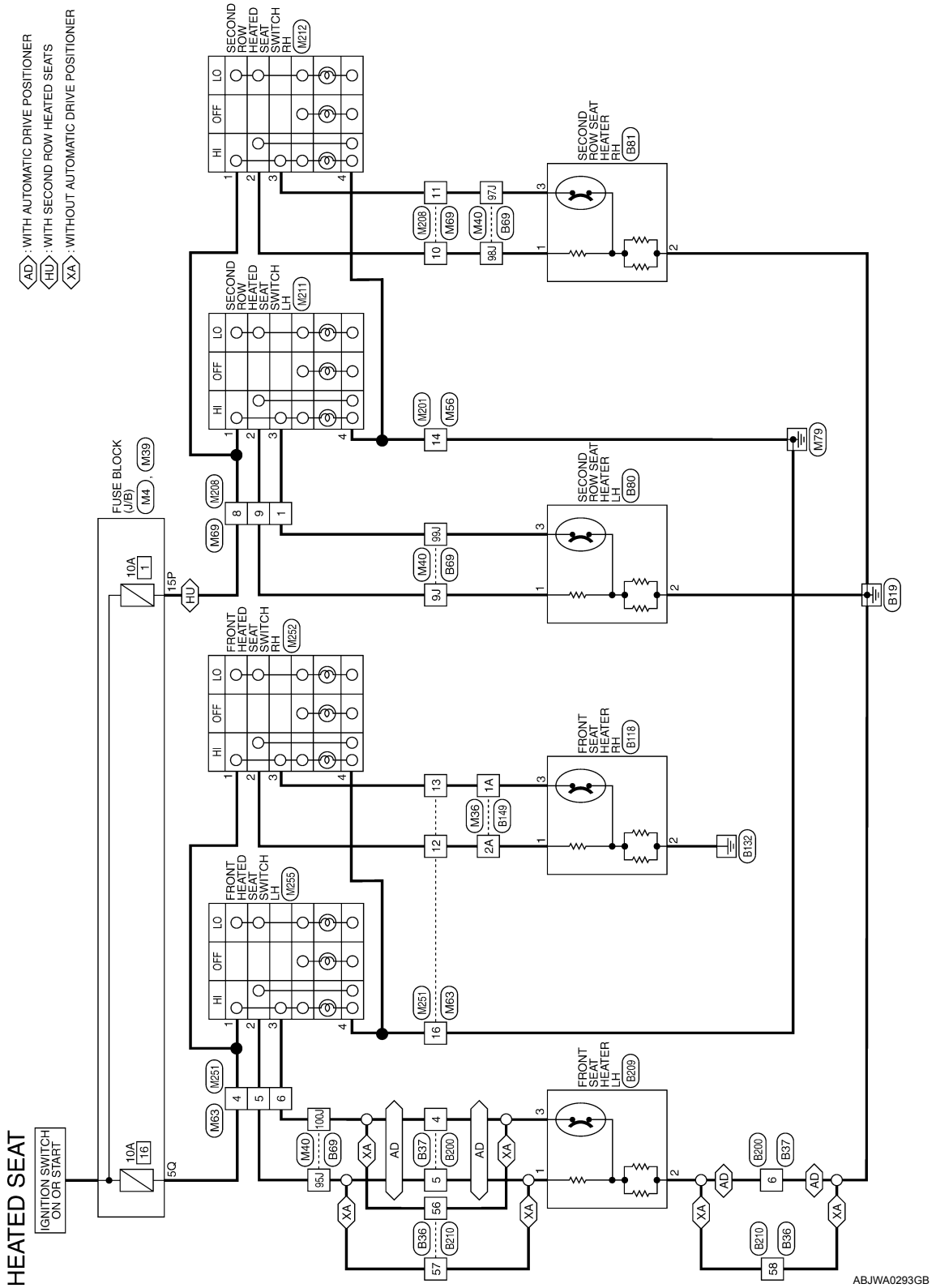

HEATED SEAT CONNECTORS

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

H.S.

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

Terminal No.	Color of Wire	Signal Name
15P	O/B	–

Connector No.	M36
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

					5A
1A	2A	3A	4A		
6A	7A	8A	9A	10A	

11A	12A	13A	14A	15A	16A	17A	18A	19A	20A	21A
	22A	23A	24A	25A	26A	27A	28A	29A	30A	
31A	32A	33A	34A	35A	36A	37A	38A	39A	40A	41A
		42A	43A	44A	45A	46A	47A	48A	49A	50A
51A	52A	53A	54A	55A	56A	57A	58A	59A	60A	61A
		62A	63A	64A	65A	66A	67A	68A	69A	70A
71A	72A	73A	74A	75A	76A	77A	78A	79A	80A	81A
		82A	83A	84A	85A	86A	87A	88A	89A	90A
					91A	92A	93A	94A	95A	
						96A	97A	98A	99A	100A

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

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

H.S.

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

Terminal No.	Color of Wire	Signal Name
5Q	G	–

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

H.S.

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

Terminal No.	Color of Wire	Signal Name
14	B	–

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

H.S.

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

Terminal No.	Color of Wire	Signal Name
14	B	–

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

H.S.

1J	2J	3J	4J	5J
6J	7J	8J	9J	10J

11J	12J	13J	14J	15J	16J	17J	18J	19J	20J	21J
	22J	23J	24J	25J	26J	27J	28J	29J	30J	
31J	32J	33J	34J	35J	36J	37J	38J	39J	40J	41J
	42J	43J	44J	45J	46J	47J	48J	49J	50J	
51J	52J	53J	54J	55J	56J	57J	58J	59J	60J	61J
	62J	63J	64J	65J	66J	67J	68J	69J	70J	
71J	72J	73J	74J	75J	76J	77J	78J	79J	80J	81J
	82J	83J	84J	85J	86J	87J	88J	89J	90J	

91J	92J	93J	94J	95J
96J	97J	98J	99J	100J

Terminal No.	Color of Wire	Signal Name
9J	W/V	–
95J	GR	–
97J	GR/B	–
98J	GR/L	–
99J	GR/R	–
100J	L/B	–

Connector No.	M69
Connector Name	WIRE TO WIRE
Connector Color	BROWN

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	GR/R	–
8	O/B	–
9	W/V	–
10	GR/L	–
11	GR/B	–

Connector No.	M63
Connector Name	WIRE TO WIRE
Connector Color	BROWN

H.S.

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

Terminal No.	Color of Wire	Signal Name
4	G	–
5	GR	–
6	L/B	–
12	GR/L	–
13	GR/B	–
16	B	–

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Connector No.	M208
Connector Name	WIRE TO WIRE
Connector Color	BROWN

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	GR/R	–
8	O/B	–
9	W/V	–
10	GR/L	–
11	GR/B	–

Connector No.	M211
Connector Name	SECOND ROW HEATED SEAT SWITCH LH
Connector Color	WHITE

H.S.

5		6
4	2	1	3

Terminal No.	Color of Wire	Signal Name
1	O/B	–
2	W/V	–
3	GR/R	–
4	B	–

Connector No.	M212
Connector Name	SECOND ROW HEATED SEAT SWITCH RH
Connector Color	BROWN

H.S.

5		6
4	2	1	3

Terminal No.	Color of Wire	Signal Name
1	O/B	–
2	GR/L	–
3	GR/B	–
4	B	–

Connector No.	M251
Connector Name	WIRE TO WIRE
Connector Color	BROWN

H.S.

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

Terminal No.	Color of Wire	Signal Name
4	G	–
5	GR	–
6	L/B	–
12	GR/L	–
13	GR/B	–
16	B	–

Connector No.	M252
Connector Name	FRONT HEATED SEAT SWITCH RH
Connector Color	BROWN

H.S.

5		6
4	2	1	3

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

Connector No.	M255
Connector Name	FRONT HEATED SEAT SWITCH LH
Connector Color	WHITE

H.S.

5		6
4	2	1	3

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

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Connector No.	B36
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

58	57
56	

Terminal No.	Color of Wire	Signal Name
56	L/B	–
57	GR	–
58	B	–

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

H.S.

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

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

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

H.S.

5J	4J	3J	2J	1J
10J	9J	8J	7J	6J

21J	20J	19J	18J	17J	16J	15J	14J	13J	12J	11J
30J	29J	28J	27J	26J	25J	24J	23J	22J		
41J	40J	39J	38J	37J	36J	35J	34J	33J	32J	31J
50J	49J	48J	47J	46J	45J	44J	43J	42J		
61J	60J	59J	58J	57J	56J	55J	54J	53J	52J	51J
70J	69J	68J	67J	66J	65J	64J	63J	62J		
81J	80J	79J	78J	77J	76J	75J	74J	73J	72J	71J
90J	89J	88J	87J	86J	85J	84J	83J	82J		

95J	94J	93J	92J	91J
100J	99J	98J	97J	96J

Terminal No.	Color of Wire	Signal Name
9J	W/V	–
95J	GR	–
97J	GR/B	–
98J	GR/L	–
99J	GR/R	–
100J	L/B	–

Connector No.	B80
Connector Name	SECOND ROW SEAT HEATER LH
Connector Color	WHITE

H.S.

1
3	2

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

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Connector No.	B81
Connector Name	SECOND ROW SEAT HEATER RH
Connector Color	WHITE

H.S.

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

Connector No.	B118
Connector Name	FRONT SEAT HEATER RH
Connector Color	WHITE

H.S.

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

Connector No.	B149
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

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

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

H.S.

Terminal No.	Color of Wire	Signal Name
4	O	–
5	GR	–
6	P	–

ABJIA0668GB

Connector No.	B209
Connector Name	FRONT SEAT HEATER LH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	GR	–
2	P	–
3	O	–

Connector No.	B210
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
56	L/B	–
57	GR	–
58	B	–

ABJIA0680GB

THIRD ROW POWER FOLDING SEAT

Wiring Diagram

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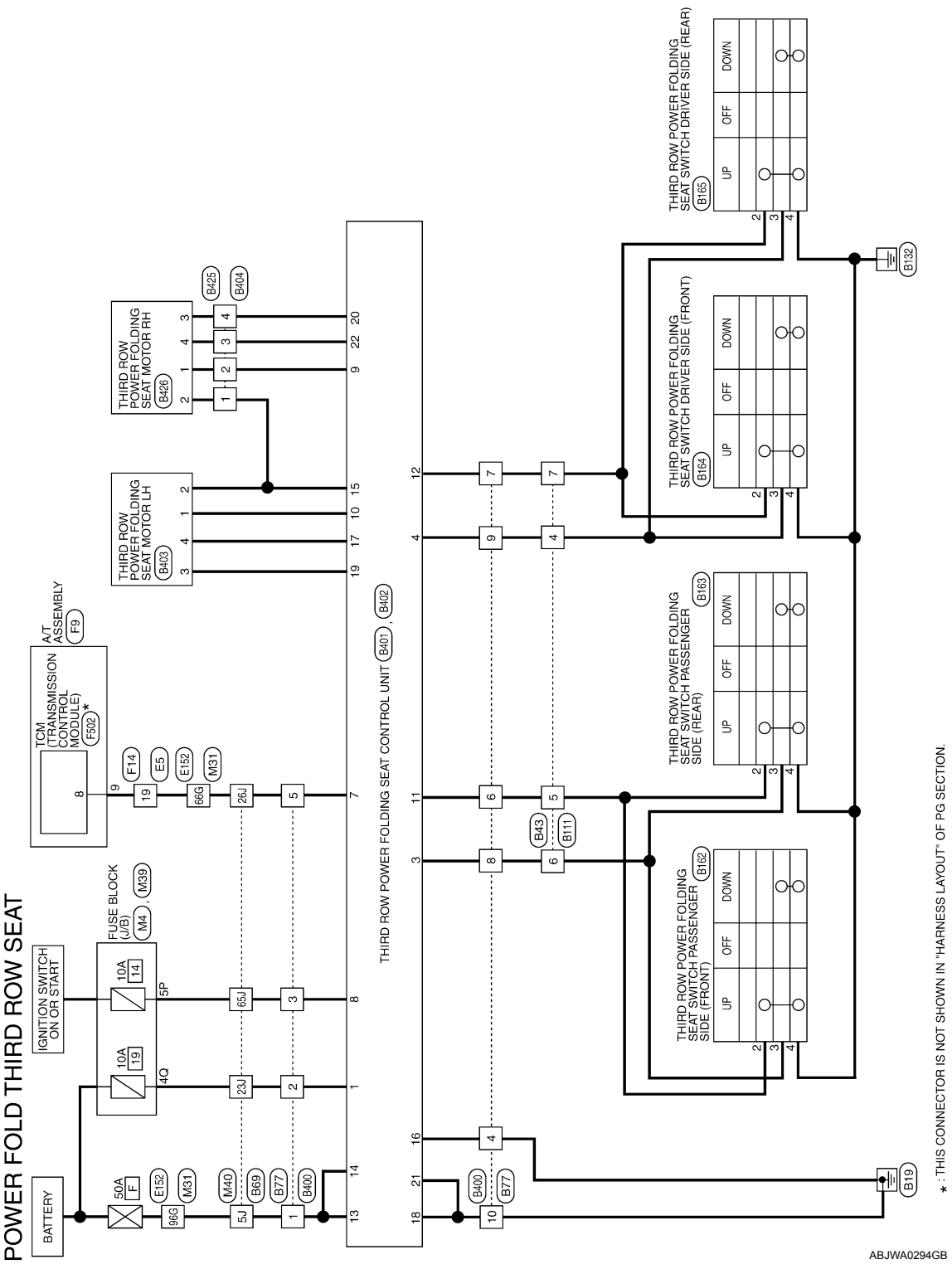

POWER FOLD THIRD ROW SEAT CONNECTORS

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

H.S.

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

Terminal No.	Color of Wire	Signal Name
5P	O/L	–

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

H.S.

1G	2G	3G	4G	5G
6G	7G	8G	9G	10G

11G	12G	13G	14G	15G	16G	17G	18G	19G	20G	21G									
22G	23G	24G	25G	26G	27G	28G	29G	30G											
31G	32G	33G	34G	35G	36G	37G	38G	39G	40G	41G									
42G	43G	44G	45G	46G	47G	48G	49G	50G											
51G	52G	53G	54G	55G	56G	57G	58G	59G	60G	61G									
62G	63G	64G	65G	66G	67G	68G	69G	70G											
71G	72G	73G	74G	75G	76G	77G	78G	79G	80G	81G									
82G	83G	84G	85G	86G	87G	88G	89G	90G											
91G	92G	93G	94G	95G															
96G	97G	98G	99G	100G															

Terminal No.	Color of Wire	Signal Name
66G	B/R	–
96G	W/B	–

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

H.S.

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

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

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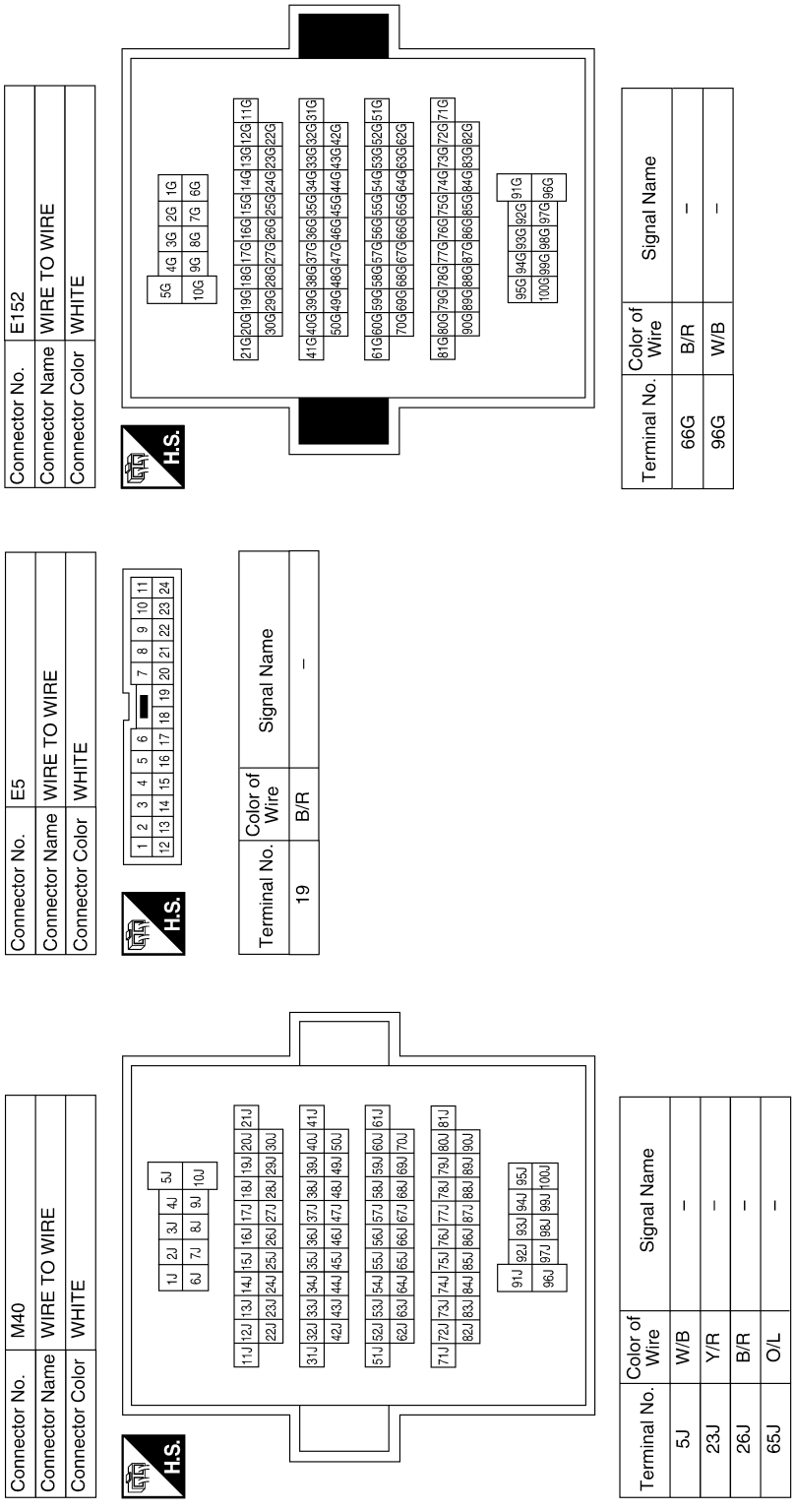

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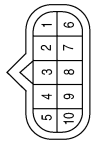
Connector No.	F9
Connector Name	A/T ASSEMBLY
Connector Color	GREEN

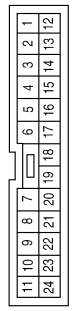
H.S.



Terminal No.	Color of Wire	Signal Name
9	B/R	–

Connector No.	F14
Connector Name	WIRE TO WIRE
Connector Color	WHITE

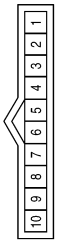
H.S.



Terminal No.	Color of Wire	Signal Name
19	B/R	–

Connector No.	F502
Connector Name	TCM (TRANSMISSION CONTROL MODULE)
Connector Color	GRAY

H.S.



Terminal No.	Color of Wire	Signal Name
8	G	START-RLY

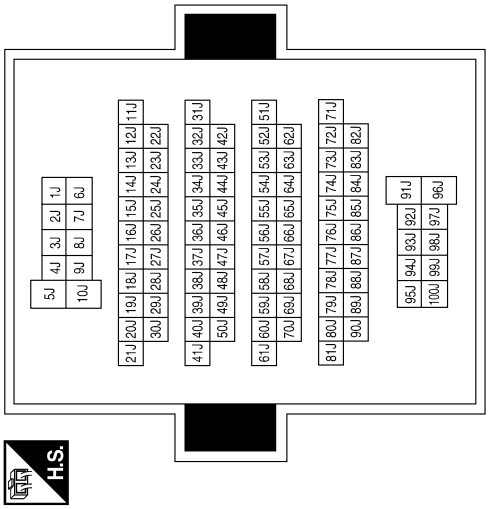
Connector No.	B43
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
4	V	–
5	SB	–
6	LG	–
7	O	–

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

H.S.



Terminal No.	Color of Wire	Signal Name
5J	W	–
23J	Y/R	–
26J	GR/R	–
65J	O/L	–

ABJIA0671GB

Connector No.	B111
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
4	V	–
5	SB	–
6	LG	–
7	O	–

Connector No.	B164
Connector Name	THIRD ROW POWER FOLDING SEAT SWITCH DRIVER SIDE (FRONT)
Connector Color	WHITE

H.S.

5		6
4	2	1	3

Terminal No.	Color of Wire	Signal Name
1	–	–
2	O	–
3	V	–
4	BR	–
5	–	–
6	–	–

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

10	8		4	2
1	9	7	6	5	3

Terminal No.	Color of Wire	Signal Name
1	W	–

Terminal No.	Color of Wire	Signal Name
2	Y/R	–
3	O/L	–
4	B	–
5	GR/R	–
6	SB	–
7	O	–
8	LG	–
9	V	–
10	B	–

Connector No.	B163
Connector Name	THIRD ROW POWER FOLDING SEAT SWITCH PASSENGER SIDE (REAR)
Connector Color	WHITE

H.S.

5		6
4	2	1	3

Terminal No.	Color of Wire	Signal Name
1	–	–
2	SB	–
3	LG	–
4	BR	–
5	–	–
6	–	–

Connector No.	B162
Connector Name	THIRD ROW POWER FOLDING SEAT SWITCH PASSENGER SIDE (FRONT)
Connector Color	BROWN

H.S.

5		6
4	2	1	3

Terminal No.	Color of Wire	Signal Name
1	–	–
2	SB	–
3	LG	–
4	BR	–
5	–	–
6	–	–

ABJIA0674GB

Connector No.	B165
Connector Name	THIRD ROW POWER FOLDING SEAT SWITCH DRIVER SIDE (REAR)
Connector Color	BROWN

H.S.

Terminal No.	Color of Wire	Signal Name
1	–	–
2	O	–
3	V	–
4	BR	–
5	–	–
6	–	–

Connector No.	B400
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

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

Connector No.	B401
Connector Name	THIRD ROW POWER FOLDING SEAT CONTROL UNIT
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	Y/R	BAT LOG
2	–	–
3	LG	40 SW DN
4	V	60 SW DN
5	–	–
6	–	–
7	G/R	PARK
8	O/L	IGN
9	G/B	HALL+
10	O/B	HALL+
11	SB	40 SW UP
12	O	60 SW UP

Connector No.	B402
Connector Name	THIRD ROW POWER FOLDING SEAT CONTROL UNIT
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
13	W	BAT
14	W	BAT
15	Y/B	HALL-
16	B	SW REF
17	W/L	60 DWN
18	B	GND
19	R/W	60 UP
20	G/W	40 UP
21	B	GND
22	V	40 DWN

Connector No.	B403
Connector Name	THIRD ROW POWER FOLDING SEAT MOTOR LH
Connector Color	GRAY

H.S.

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

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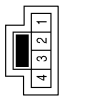
Connector No.	B426
Connector Name	THIRD ROW POWER FOLDING SEAT MOTOR RH
Connector Color	GRAY

H.S.

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

Connector No.	B425
Connector Name	WIRE TO WIRE
Connector Color	WHITE

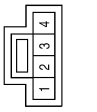
H.S.



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

Connector No.	B404
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.



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

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SYMPTOM DIAGNOSIS

THIRD ROW POWER FOLDING SEAT

Symptom Table

INFOID:0000000009823502

Symptom	Reference
None of the third row power folding seats will operate with any switch.	Refer to SE-39, "None of the Third Row Power Folding Seats Will Operate With Any Third Row Power Folding Seat Switch".
Only one third row power folding seat will operate.	Refer to SE-40, "Only One Third Row Power Folding Seat Will Operate".
Third row power folding seat will operate in only one direction.	Refer to SE-42, "Third Row Power Folding Seat Will Operate in Only One Direction".
Third row power folding seat will stop short of its fully up or down position.	Refer to SE-44, "Third Row Power Folding Seat Stops Short of it's Fully Up or Down Position".
Third row power folding seat makes excessive noise while moving.	Refer to SE-45, "Third Row Power Folding Seat Makes Excessive Noise While Moving".
Seats make squeak or rattle noise.	Refer to SE-3, "Work Flow".

NONE OF THE THIRD ROW POWER FOLDING SEATS WILL OPERATE WITH ANY SWITCH.

None of the Third Row Power Folding Seats Will Operate With Any Third Row Power Folding Seat Switch

INFOID:0000000009823503

Regarding Wiring Diagram information, refer to SE-31, "Wiring Diagram".

1. PRELIMINARY CHECK

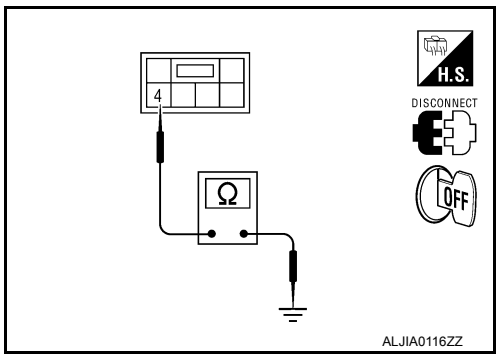
Perform preliminary check. Refer to SE-5, "Preliminary Check".

Are inspection results normal?

YES >> GO TO 2.
NO >> Perform repairs as necessary.

2. THIRD ROW POWER FOLDING SEAT SWITCH GROUND

1. Turn ignition switch OFF.
2. Disconnect any third row power folding seat switch connector.
3. Check continuity between third row power folding seat switch harness connector terminal 4 and ground.

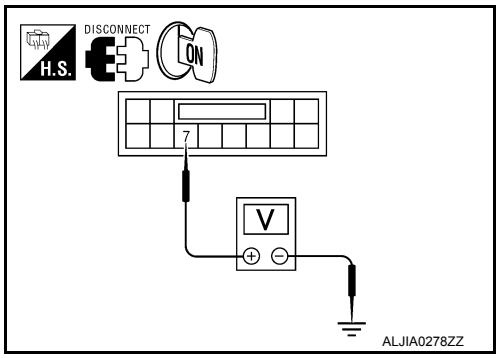


Is there continuity?

YES >> GO TO 3.
NO >> Repair ground circuit.

3. TRANSMISSION RANGE SWITCH SIGNAL

1. Confirm A/T selector lever is in PARK position.
2. Turn ignition switch ON.
3. Check voltage between third row power folding seat control unit harness connector B401 terminal 7 and ground.



Terminals			Ignition switch
(+)		(-)	ON
Third row power folding seat control unit	Terminal No.		
B401	7	Ground	Battery voltage

Is there battery voltage?

YES >> Replace third row power folding seat control unit. Refer to SE-81, "Removal and Installation - Power Seat Cross Beam".
NO >> Repair circuit as necessary.

ONLY ONE THIRD ROW POWER FOLDING SEAT WILL OPERATE.

Only One Third Row Power Folding Seat Will Operate

INFOID:0000000009823504

Regarding Wiring Diagram information, refer to SE-31, "Wiring Diagram".

1.PRELIMINARY CHECK

Perform preliminary check. Refer to SE-5, "Preliminary Check".

Are inspection results normal?

YES >> GO TO 2.
NO >> Perform repairs as necessary.

2.THIRD ROW POWER FOLDING SEAT

Determine which seat is malfunctioning.

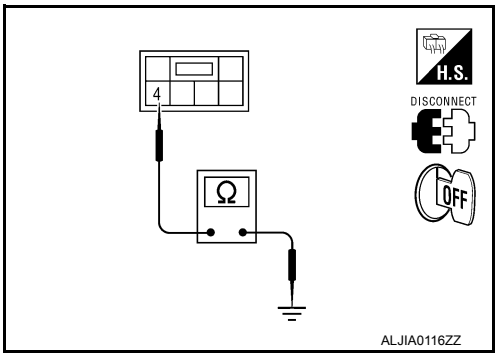
Is the affected seat the LH (60%) side?

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

3.THIRD ROW POWER FOLDING SEAT SWITCH DRIVER SIDE

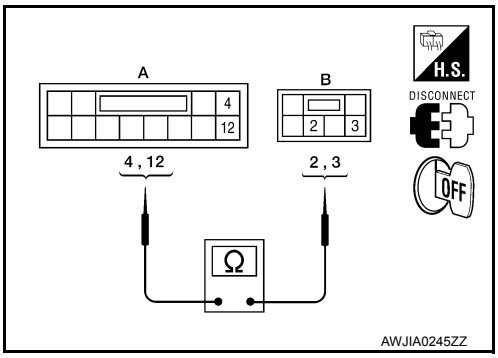
1. Turn ignition switch OFF.
2. Disconnect either the front or rear third row power folding seat switch driver side connector.
3. Check continuity between the third row power folding seat switch driver side harness connector B164 or B165 terminal 4 and ground.

Terminals			Continuity
(+)		(-)	
Third row power folding seat switch driver side	Terminal No.		
B164 or B165	4	Ground	Yes



4. Check continuity between any third row power folding seat switch driver side harness connector B164 or B165 terminal 2, 3 and third row power folding seat control unit harness connector B401 terminals 4, 12.

Terminals				Continuity
A		B		
Connector	Terminal	Connector	Terminal	
B401	4	B164 or B165	3	Yes
	12		2	



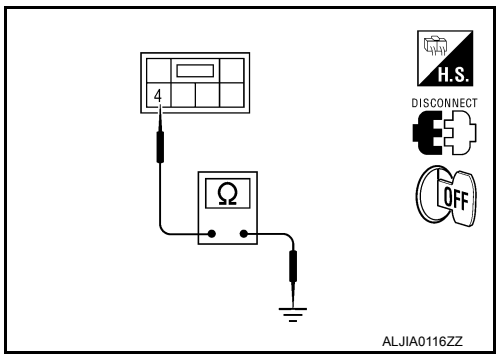
Are inspection results normal?

YES >> GO TO 5.
NO >> Repair circuits as necessary.

4.THIRD ROW POWER FOLDING SEAT SWITCH PASSENGER SIDE

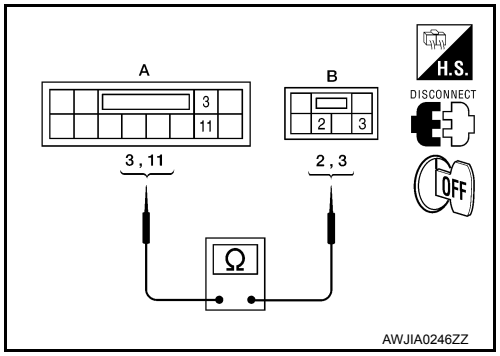
1. Turn ignition switch OFF.
2. Disconnect either the front or rear third row power folding seat switch passenger side connector.

3. Check continuity between the third row power folding seat switch passenger side harness connector B162 or B163 terminal 4 and ground.



Terminals			Continuity
(+)		(-)	
Third row power folding seat switch driver side	Terminal No.		
B162 or B163	4	Ground	Yes

4. Check continuity between any third row power folding seat switch passenger side harness connector B162 or B163 terminals 2, 3 and third row power folding seat control unit harness connector B401 terminals 3, 11.



Terminals				Continuity
A		B		
Connector	Terminal	Connector	Terminal	
B401	3	B162 or B163	3	Yes
	11		2	

Is there continuity?

YES >> GO TO 5.
NO >> Repair circuits as necessary.

5. THIRD ROW POWER FOLDING SEAT MOTOR

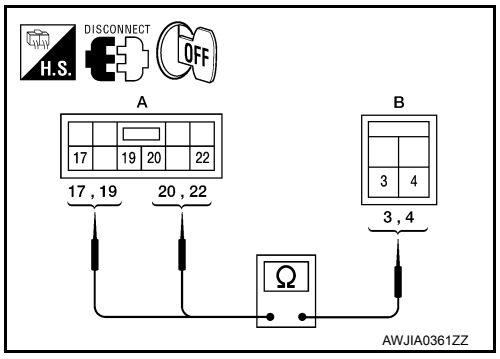
Check operation of affected third row power folding seat motor. Refer to SE-10, "Third Row Power Folding Seat Motor".

Are inspection results normal?

YES >> GO TO 6.
NO >> Replace third row power folding seat motor. Refer to SE-78, "Exploded View".

6. CHECK CIRCUITS BETWEEN MOTOR AND CONTROL UNIT

Check continuity between third row power folding seat motor harness connector B403 or B426 terminals 3, 4 and third row power folding seat control unit terminals 17, 19 (LH) or 20, 22 (RH).



Terminals				Continuity
A		B		
Connector	Terminal	Connector	Terminal	
B402	17 (LH), 22 (RH)	B403 (LH) or B426 (RH)	4	Yes
	19 (LH), 20 (RH)		3	

Are inspection results normal?

YES >> Replace third row power folding seat control unit. Refer to SE-81, "Removal and Installation - Power Seat Cross Beam".
NO >> Repair circuits as necessary.

THIRD ROW POWER FOLDING SEAT WILL OPERATE IN ONLY ONE DIRECTION.

Third Row Power Folding Seat Will Operate in Only One Direction

INFOID:0000000009823505

Regarding Wiring Diagram information, refer to SE-31, "Wiring Diagram".

1.PRELIMINARY CHECK

Perform preliminary check. Refer to SE-5, "Preliminary Check".

Are inspection results normal?

YES >> GO TO 2.
NO >> Perform repairs as necessary.

2.THIRD ROW POWER FOLDING SEAT

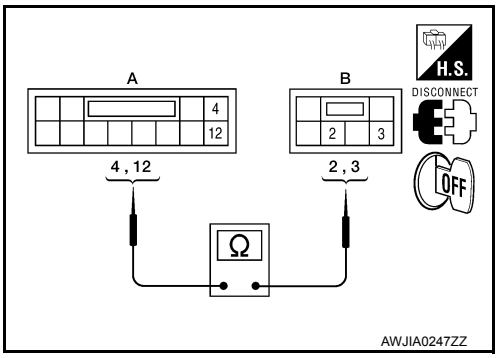
Determine which seat is malfunctioning.

Is the affected seat the LH (60%) side?

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

3.THIRD ROW POWER FOLDING SEAT SWITCH DRIVER SIDE

1. Turn ignition switch OFF.
2. Disconnect any third row power folding seat switch driver side connector.
3. Check continuity between third row power folding seat switch driver side harness connector B164 or B165 terminal 2, 3 and third row power folding seat control unit harness connector B401 terminals 4, 12.



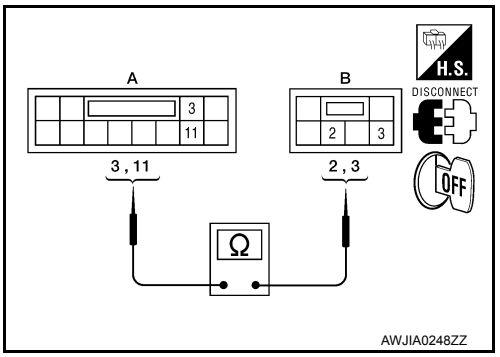
Terminals				Continuity
A		B		
Connector	Terminal	Connector	Terminal	
B401	4	B164 or B165	3	Yes
	12		2	

Is there continuity?

YES >> Replace third row power folding seat control unit. Refer to SE-81, "Removal and Installation - Power Seat Cross Beam".
NO >> Repair circuits as necessary.

4.THIRD ROW POWER FOLDING SEAT SWITCH PASSENGER SIDE

1. Turn ignition switch OFF.
2. Disconnect either the front or rear third row power folding seat switch passenger side connector.
3. Check continuity between third row power folding seat switch passenger side harness connector B162 or B163 terminals 2, 3 and third row power folding seat control unit harness connector B401 terminals 3, 11.



Terminals				Continuity
A		B		
Connector	Terminal	Connector	Terminal	
B401	3	B162 or B163	3	Yes
	11		2	

Is there continuity?

YES >> Replace third row power folding seat control unit. Refer to SE-81, "Removal and Installation - Power Seat Cross Beam".

NO >> Repair circuits as necessary.

THIRD ROW POWER FOLDING SEAT WILL STOP SHORT OF IT'S FULLY UP OR DOWN POSITION.

Third Row Power Folding Seat Stops Short of it's Fully Up or Down Position

INFOID:0000000009823506

Regarding Wiring Diagram information, refer to SE-31, "Wiring Diagram".

1.PRELIMINARY CHECK

Perform preliminary check. Refer to SE-5, "Preliminary Check".

Are inspection results normal?

YES >> GO TO 2.
NO >> Perform repairs as necessary.

2.CHECK HISTORY

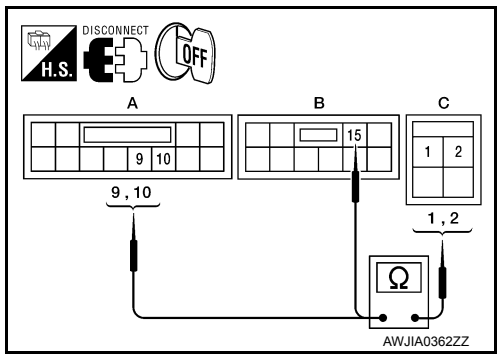
Check to see if a previous normal seat folding operation was interrupted due to low voltage condition.

Was voltage interrupted?

YES >> Perform learn procedure by operating affected seat until seat reaches full open/closed position.
NO >> GO TO 3.

3.THIRD ROW POWER FOLDING SEAT MOTOR

1. Turn ignition switch OFF.
2. Disconnect third row power folding seat motor harness connector and third row power folding seat control unit harness connector.
3. Check continuity between third row power folding seat motor harness connector B403 (LH) or B426 (RH) terminals 1, 2 and third row power folding seat control unit harness connector terminals 10, 15 (LH) or 9, 15 (RH).



Terminals				Continuity
Connector	Terminal	Connector	Terminal	
A: B401	9 (RH)	C: B426 (RH)	1	Yes
	10 (LH)	C: B403 (LH)		
B: B402	15 (LH/RH)	C: B426 (RH)	2	
		C: B403 (LH)		

Is there continuity?

YES >> Replace affected third row power folding seat motor. Refer to SE-78, "Exploded View".
NO >> Repair circuits as necessary.

THIRD ROW POWER FOLDING SEAT MAKES EXCESSIVE NOISE WHILE MOVING.

Third Row Power Folding Seat Makes Excessive Noise While Moving

INFOID:0000000009823507

1.PRELIMINARY CHECK

Perform preliminary check. Refer to SE-5, "Preliminary Check".

Are inspection results normal?

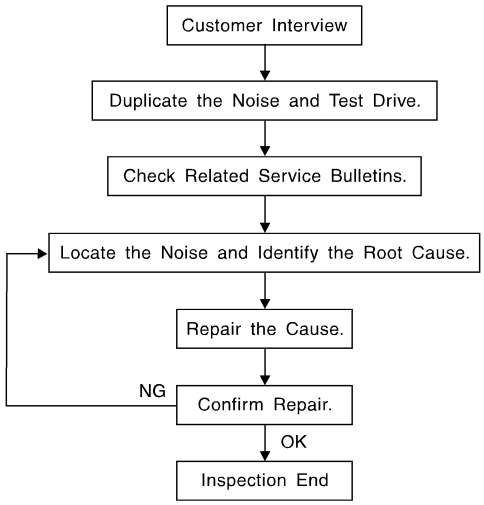
YES >> Inspect shaft assembly for binding. If OK, replace affected third row power folding seat motor. Refer to SE-78, "Exploded View".

NO >> Perform repairs as necessary.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:0000000009823508



SBT842

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 SE-50, "Diagnostic Worksheet". 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

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 CVT and 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: J-39565 and mechanic's 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 fasteners 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 SE-48, "Generic Squeak and Rattle Troubleshooting".

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.
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

INFOID:0000000009823509

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

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

1. Cluster lid A and the instrument panel
2. Acrylic lens and combination meter housing
3. Instrument panel to front pillar finisher
4. Instrument panel to windshield
5. Instrument panel 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. Shift selector 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.

TRUNK

Trunk noises are often caused by a loose jack or loose items put into the trunk by the owner.
In addition look for:

1. Trunk lid bumpers 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

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. Sun visor 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.

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:

1. Loose harness or harness connectors.
2. Front console map/reading lamp lens loose.
3. Loose screws at console attachment points.

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 underhood noise include:

1. Any component installed to the engine wall
2. Components that pass through the engine wall
3. Engine wall mounts and connectors
4. Loose radiator installation 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.

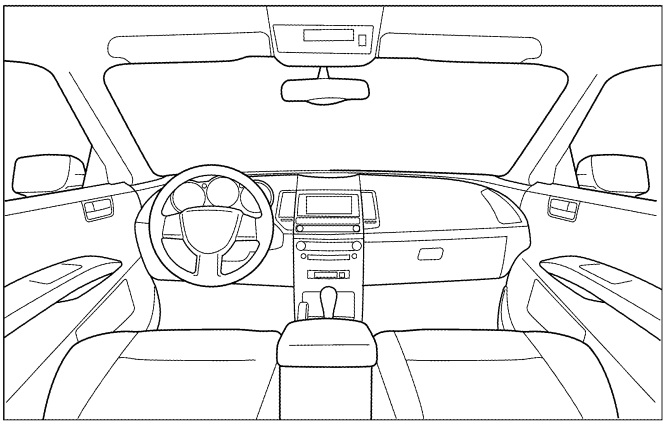
Diagnostic Worksheet

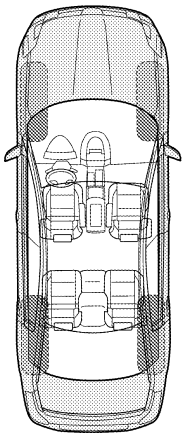
INFOID:0000000009823510

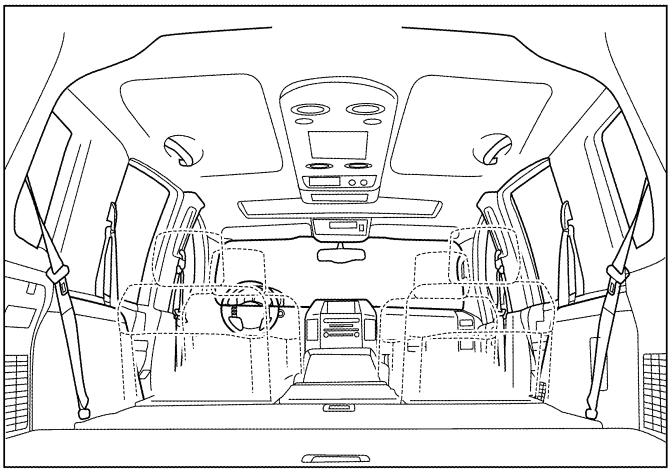
Dear Customer:
We are concerned about your satisfaction with your vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your vehicle right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under what conditions.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

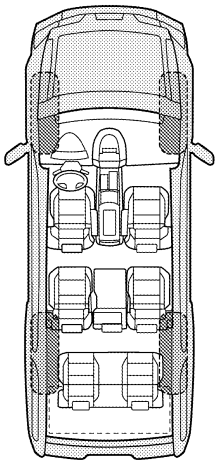
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

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.

LAIA0072E

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)

- ☐ Anytime
- ☐ 1st time in the morning
- ☐ Only when it is cold outside
- ☐ Only when it is hot outside
- ☐ After sitting out in the rain
- ☐ When it is raining or wet
- ☐ Dry or dusty conditions
- ☐ Other:

III. WHEN DRIVING:

- ☐ Through driveways
- ☐ Over rough roads
- ☐ Over speed bumps
- ☐ Only about ____ mph
- ☐ On acceleration
- ☐ Coming to a stop
- ☐ On turns: left, right or either (circle)
- ☐ With passengers or cargo
- ☐ Other: _____
- ☐ After driving _____ miles or _____ minutes

IV. WHAT TYPE OF NOISE

- ☐ Squeak (like tennis shoes on a clean floor)
- ☐ Creak (like walking on an old wooden floor)
- ☐ Rattle (like shaking a baby rattle)
- ☐ Knock (like a knock at the door)
- ☐ Tick (like a clock second hand)
- ☐ Thump (heavy muffled knock noise)
- ☐ Buzz (like a bumble bee)

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	☐	☐	_____

VIN: _____ Customer Name _____

W.O.# _____ Date: _____

This form must be attached to Work Order

LAIA0071E

PRECAUTION

PRECAUTIONS

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

INFOID:0000000009823511

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 SR 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 SR section.**
- **Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.**

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

WARNING:

- **When working near the Airbag Diagnosis Sensor Unit or other Airbag 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 battery and wait at least 3 minutes before performing any service.**

Precaution Necessary for Steering Wheel Rotation After Battery Disconnect

INFOID:0000000009823512

NOTE:

- This Procedure is applied only to models with Intelligent Key system and NATS (NISSAN ANTI-THEFT SYSTEM).
- Remove and install all control units after disconnecting both battery cables with the ignition knob in the ″LOCK″ position.
- Always use CONSULT to perform self-diagnosis as a part of each function inspection after finishing work. If DTC is detected, perform trouble diagnosis according to self-diagnostic results.

For models equipped with the Intelligent Key system and NATS, an electrically controlled steering lock mechanism is adopted on the key cylinder.
For this reason, if the battery is disconnected or if the battery is discharged, the steering wheel will lock and steering wheel rotation will become impossible.
If steering wheel rotation is required when battery power is interrupted, follow the procedure below before starting the repair operation.

OPERATION PROCEDURE

1. Connect both battery cables.
   NOTE:
   Supply power using jumper cables if battery is discharged.
2. Use the Intelligent Key or mechanical key to turn the ignition switch to the ″ACC″ position. At this time, the steering lock will be released.
3. Disconnect both battery cables. The steering lock will remain released and the steering wheel can be rotated.
4. Perform the necessary repair operation.

5. When the repair work is completed, return the ignition switch to the ″LOCK″ position before connecting the battery cables. (At this time, the steering lock mechanism will engage.)
6. Perform a self-diagnosis check of all control units using CONSULT.

Occupant Classification System

INFOID:0000000009823513

Replace occupant classification system control unit and passenger front seat cushion assembly as an assembly. Refer to SE-93, "Disassembly and Assembly".

Precaution for Work

INFOID:0000000009823514

- 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 prevent them from being dropped.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with a new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After installation is complete, be sure to check that each part works properly.
- Follow the steps below to clean components:

- Water soluble dirt:
- Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area.
- Then rub with a soft, dry cloth.

- Oily dirt:
- Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%) and wipe the dirty area.
- Then dip a cloth into fresh water, wring the water out of the cloth and wipe the detergent off.
- Then rub with a soft, dry cloth.

- Do not use organic solvent such as thinner, benzene, alcohol or gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

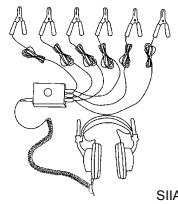
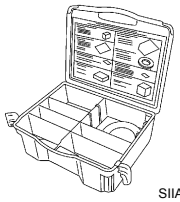
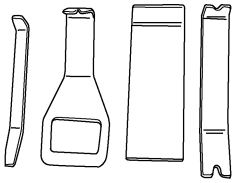
PREPARATION

PREPARATION

Special Service Tool

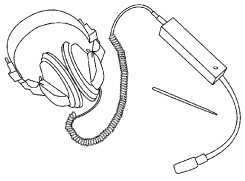
INFOID:0000000009823515

The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

Tool number (Kent-Moore No.) Tool name	Description
— (J-39570) Chassis ear  SIIA0993E	Locating the noise
— (J-43980) NISSAN Squeak and Rattle Kit  SIIA0994E	Repairing the cause of noise
— (J-46534) Trim Tool Set  AWJIA0483ZZ	Removing trim components

Commercial Service Tool

INFOID:0000000009823516

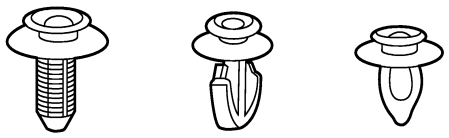
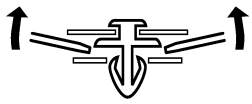
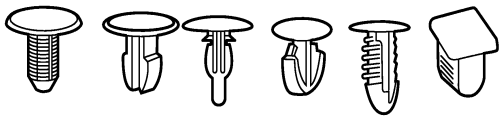
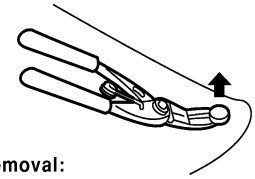
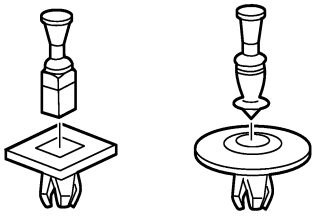
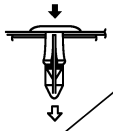
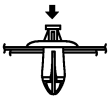
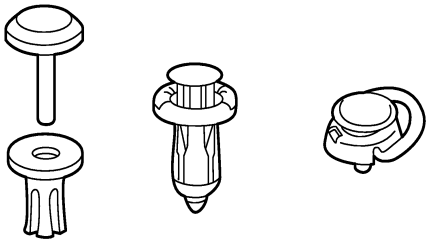
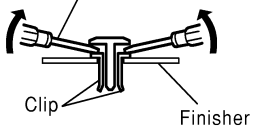
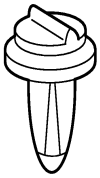
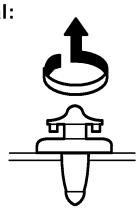
(Kent-Moore No.) Tool name	Description
(J-39565) Engine ear  SIIA0995E	Locating the noise

CLIP LIST

Descriptions for Clips

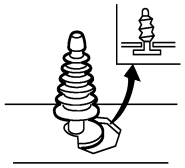
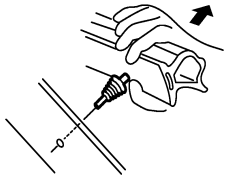
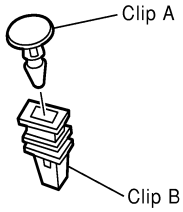
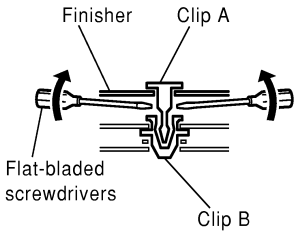
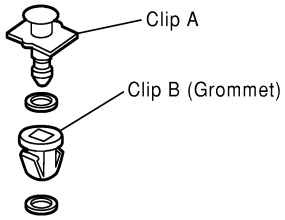
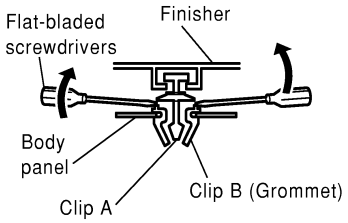
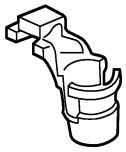
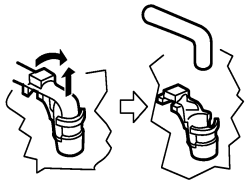
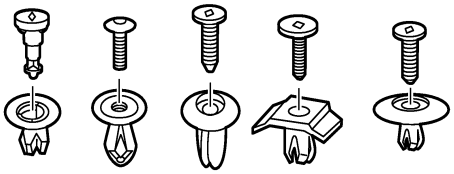
INFOID:0000000009823517

Replace any clips which are damaged during removal or installation.

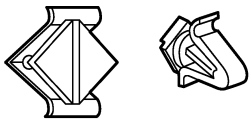
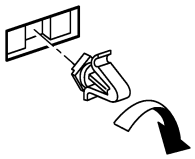
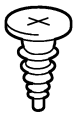
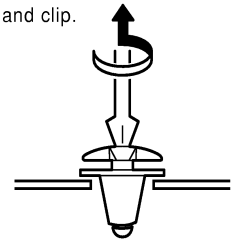
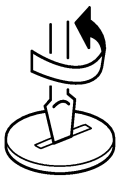
Symbol No.	Shapes	Removal & Installation
C101		**Removal:** Remove by bending up with flat-bladed screwdrivers or clip remover. 
C103		 **Removal:** Remove with a clip remover.
C203		**Removal:** Push center pin to catching position. (Do not remove center pin by hitting it.) Push  Push  **Installation:**
C205		**Removal:** Flat-bladed screwdriver  Clip Finisher
C206		**Removal:** 

SIIA0315E

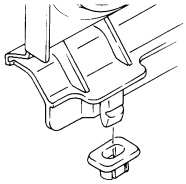
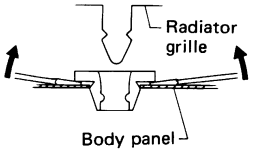
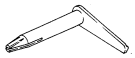
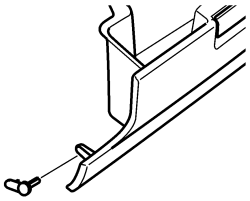
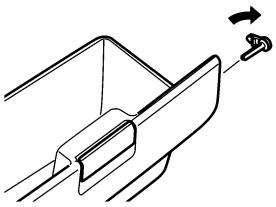
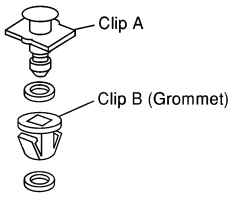
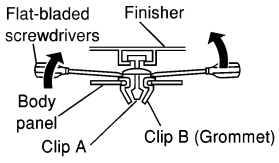
CLIP LIST

Symbol No.	Shapes	Removal & Installation
CE103 		**Removal:** 
CF110 		**Removal:** 
CF118 		**Removal:** 
CR103		**Removal:** Holder portion of clip must be spread out to remove rod. 
CS101 		**Removal:** 1. Screw out with a Phillips screwdriver. 2. Remove female portion with flat-bladed screwdriver. 

SIIA0316E

Symbol No.	Shapes	Removal & Installation	
CG101 		**Removal:**  Rotate 45° to remove  **Removal:**	**Installation:** 
CS102 			
CS113 		**Removal:** Disconnect upper connection of clip with a flat-bladed screwdriver, then remove clip while inserting a flat-bladed screwdriver between body panel and clip. 	
C111 			

SIIA0317E

Symbol No.	Shapes	Removal & Installation
CG104 		**Removal:** **Remove by bending up with flat-bladed screwdrivers.** 
CE114 		
CF118 		**Removal:** 

ALJIA0564GB

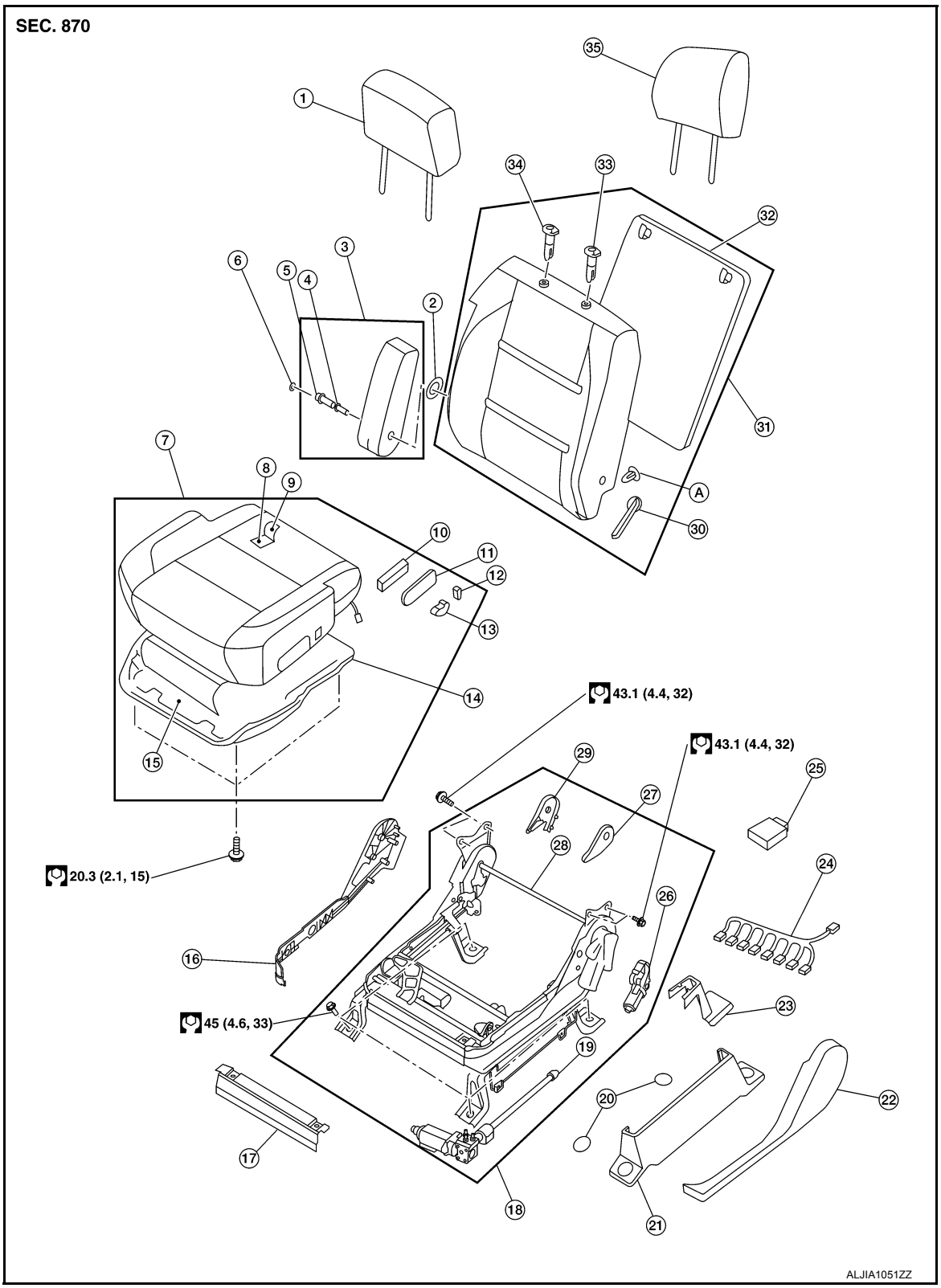
REMOVAL AND INSTALLATION

FRONT SEAT

Exploded View

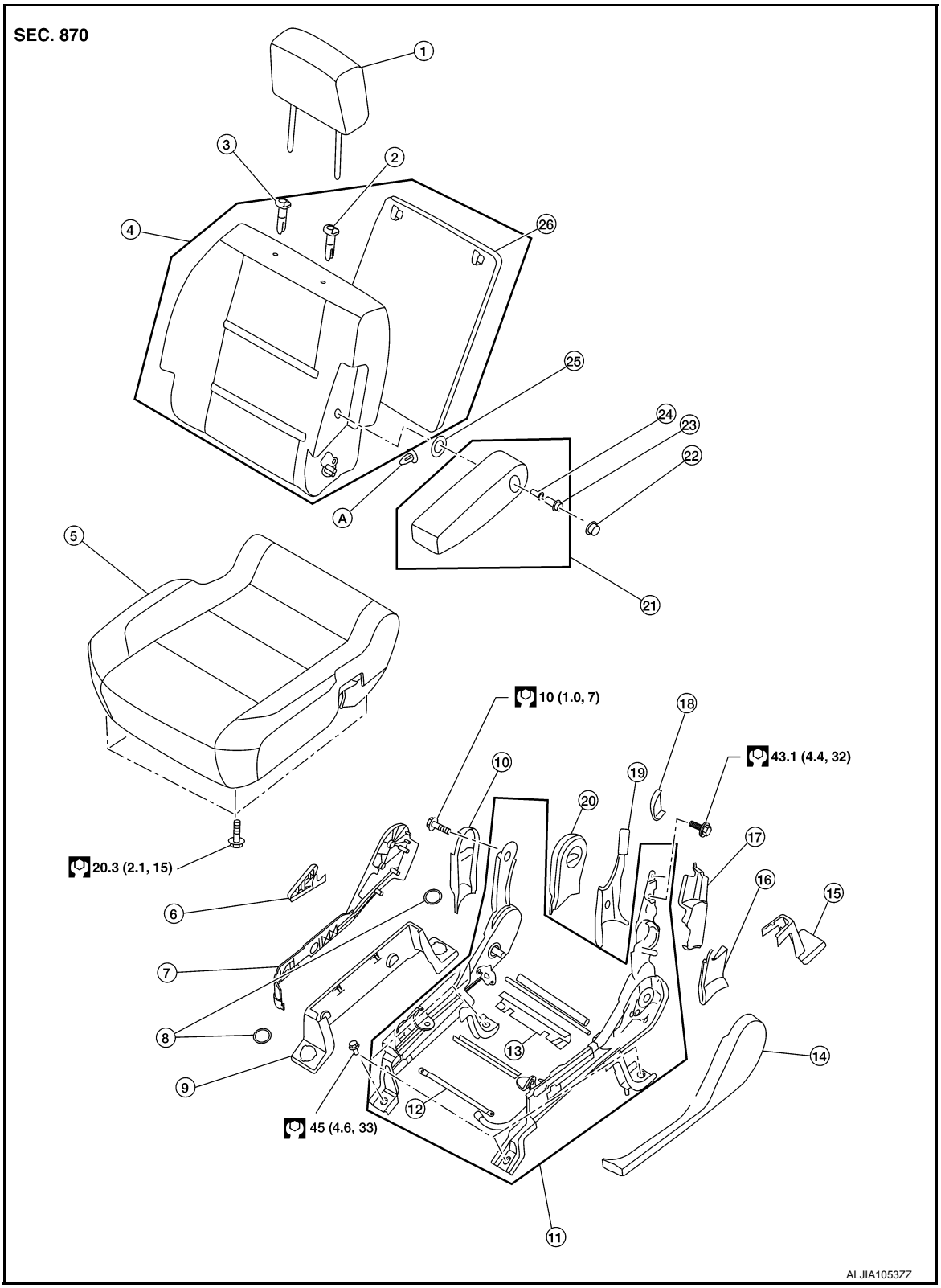
INFOID:0000000009823518

DRIVER SEAT



1. Headrest without display
2. Armrest washer
3. Armrest assembly
4. Armrest insert
5. Armrest pivot bolt
6. Armrest pivot bolt finisher
7. Seat cushion assembly
8. Seat cushion pad
9. Seat cushion trim
10. Power seat switch
11. Power seat switch finisher
12. Seat recline knob
13. Seat slide knob
14. Seat cushion frame
15. Seat cushion heater (if equipped)
16. Seat cushion outer finisher (RH)
17. Seat cushion front finisher
18. Seat frame assembly
19. Seat slide motor
20. Bolt cover
21. Slide finisher (LH)
22. Seat cushion outer finisher (LH)
23. Slide finisher rear (RH)
24. Seat harness
25. Power seat control unit
26. Recline motor
27. Recline mechanism cover (LH)
28. Recline rod
29. Recline mechanism cover (RH)
30. Lumbar lever
31. Seatback assembly
32. Seatback board
33. Headrest holder (locked)
34. Headrest holder (free)
35. Headrest with display
A. Seatback board clip

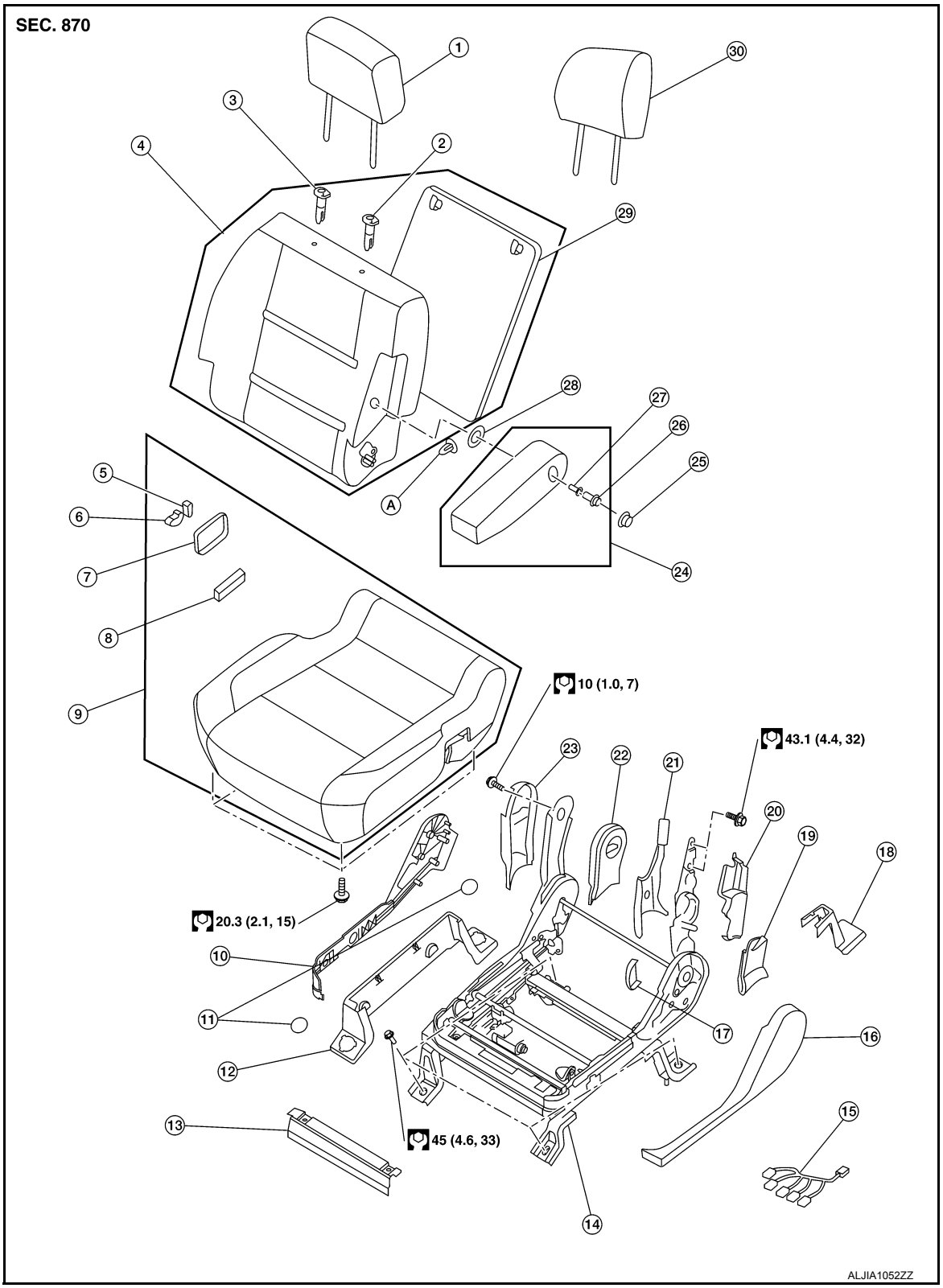
PASSENGER SEAT - FOLD FLAT



1. Headrest
2. Headrest holder (locked)
3. Headrest holder (free)
4. Seatback assembly
5. Seat cushion assembly
6. Recline lever
7. Seat cushion outer finisher (RH)
8. Bolt cover
9. Slide finisher (RH)
10. Recline mechanism outer cover (RH)
11. Seat frame assembly
12. Slide release wire
13. Seat frame cover (rear)
14. Seat cushion outer finisher (LH)
15. Slide finisher rear (LH)
16. Recline mechanism outer cover (LH)
17. Hinge cover outer (LH)
18. Armrest inner cover

19. Recline mechanism inner cover (LH)
20. Recline mechanism inner cover (RH)
21. Armrest assembly
22. Armrest pivot bolt finisher
23. Armrest pivot bolt
24. Armrest insert
25. Armrest washer
26. Seatback board
A. Seatback board clip

PASSENGER SEAT - POWER



1. Headrest without display
2. Headrest holder (locked)
3. Headrest holder (free)
4. Seatback assembly
5. Seat recline knob
6. Seat slide and lifter switch knob

7. Power seat switch finisher
8. Power seat switch
9. Seat cushion assembly
10. Seat cushion outer finisher (RH)
11. Bolt cover
12. Slide finisher (RH)
13. Seat cushion front finisher
14. Seat frame assembly
15. Seat harness
16. Seat cushion outer finisher (LH)
17. Armrest inner cover
18. Slide finisher rear (LH)
19. Recline mechanism outer cover (LH)
20. Hinge cover outer (LH)
21. Recline mechanism inner cover (LH)
22. Recline mechanism inner cover (RH)
23. Recline mechanism outer cover (RH)
24. Armrest assembly
25. Armrest pivot bolt finisher
26. Armrest pivot bolt
27. Armrest insert
28. Armrest washer
29. Seatback board
30. Headrest with display
A. Seatback board clip

Removal and Installation - Front Seat Assembly

INFOID:0000000009823519

REMOVAL

WARNING:
Do not leave any objects (screwdrivers, tools, etc.) on the seat during seat repair. It can lead to personal injury if the side air bag module should accidentally deploy.
CAUTION:
- **When removing or installing the seat trim, handle it carefully to keep dirt out and avoid damage.**
- **Before removing the front seat, turn the ignition switch off, disconnect both battery cables and wait at least three minutes.**
- **When checking the power seat circuit for continuity using a circuit tester, do not confuse its connector with the side air bag module connector. Such an error may cause the air bag to deploy.**
- **Do not drop, tilt, or bump the side air bag module while installing the seat. Always handle it with care.**
- **After front side air bag module inflates, front seatback assembly must be replaced.**
- **Front passenger seat is equipped with an Occupant Classification System sensor and control module. Do not disassemble front passenger seat cushion assembly or remove the trim as this will affect the Occupant Classification System calibration.**
- **Always replace passenger seat cushion as an assembly.**
- **When removing and installing the seat, use shop cloths to protect the vehicle from damage.**

1. Position the seat until the four seat bolts are accessible. Remove the bolt covers and the bolts.
   NOTE:
   If disassembling the seat after removal, set the front/rear cushion lifters to the top position.
2. Disconnect the negative and positive battery terminals and wait at least three minutes. Refer to PG-77, "Removal and Installation".
3. Remove the four seat bolts.
4. Tilt the seat to disconnect the harness connectors from the seat and remove.

INSTALLATION

Installation is in the reverse order of removal.
- Tighten the seat bolts to specification. Refer to SE-59, "Exploded View".

CAUTION:
Make sure that the seat harness or the floor trim is not damaged during installation.

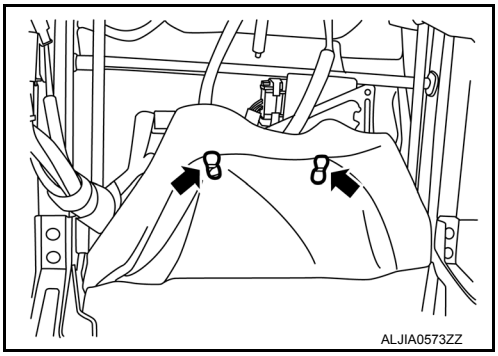
Removal and Installation - Power Seat Switch

INFOID:0000000009823520

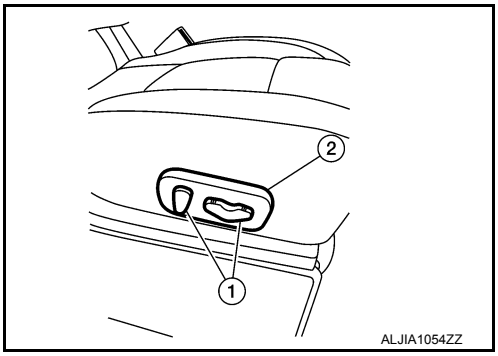
REMOVAL

1. Remove the front seat assembly. Refer to SE-63, "Removal and Installation - Front Seat Assembly".
2. Place the front seat assembly, back side down, on a work bench.

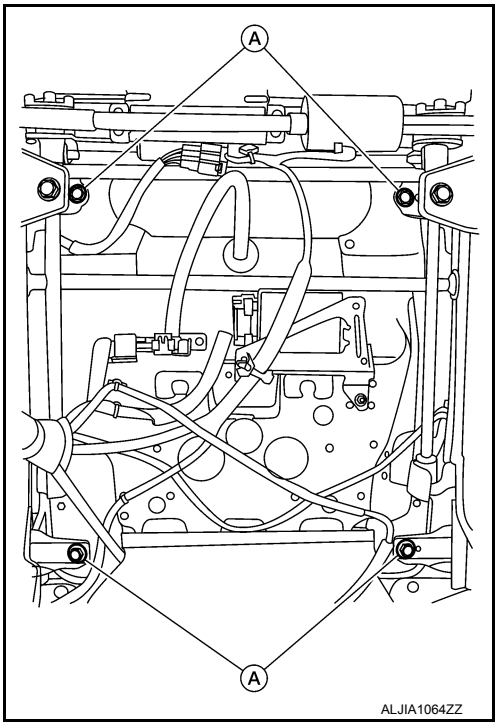
3. Release the trim at bottom of seat as shown.



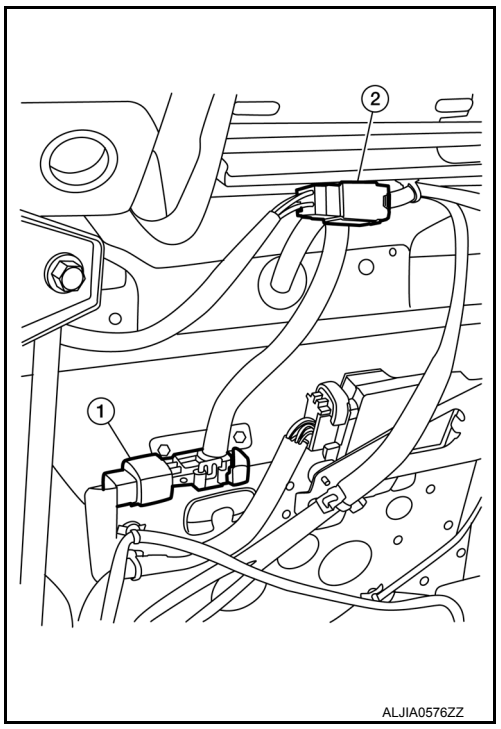
4. Remove the seat recline knob and seat slide and lifter switch knob (1), then the power seat switch finisher (2).



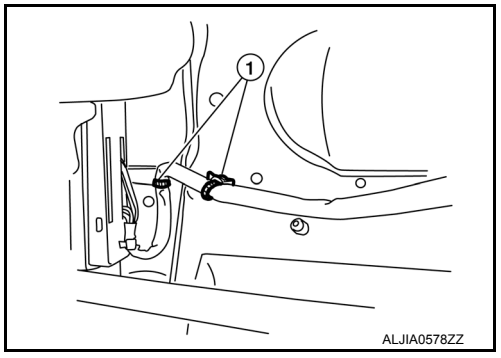
5. Remove the four seat cushion assembly bolts (A) from the seat frame assembly.



6. Disconnect the harness connectors for the occupant classification system (1) and the power seat switch (2).

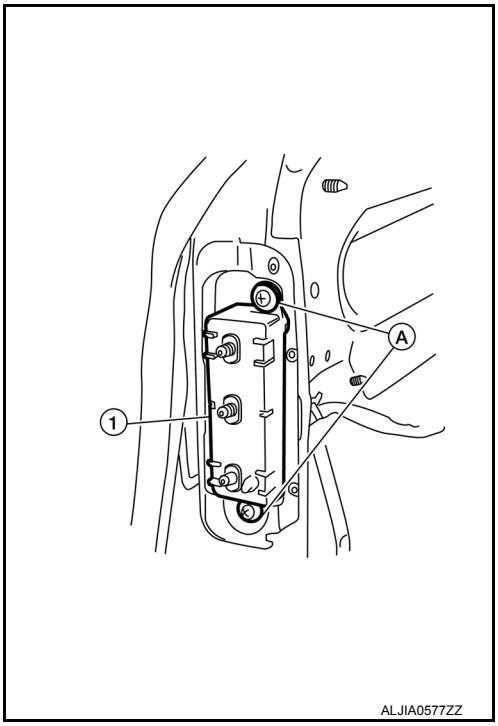


7. Release the two power seat switch harness clips (1) from the seat frame assembly.



8. Release the seat cushion trim J-clip retainers on same side as power seat switch.
9. Remove the seat cushion outer finisher.

10. Remove the two screws (A) and the power seat switch (1).



INSTALLATION

Installation is in the reverse order of removal.

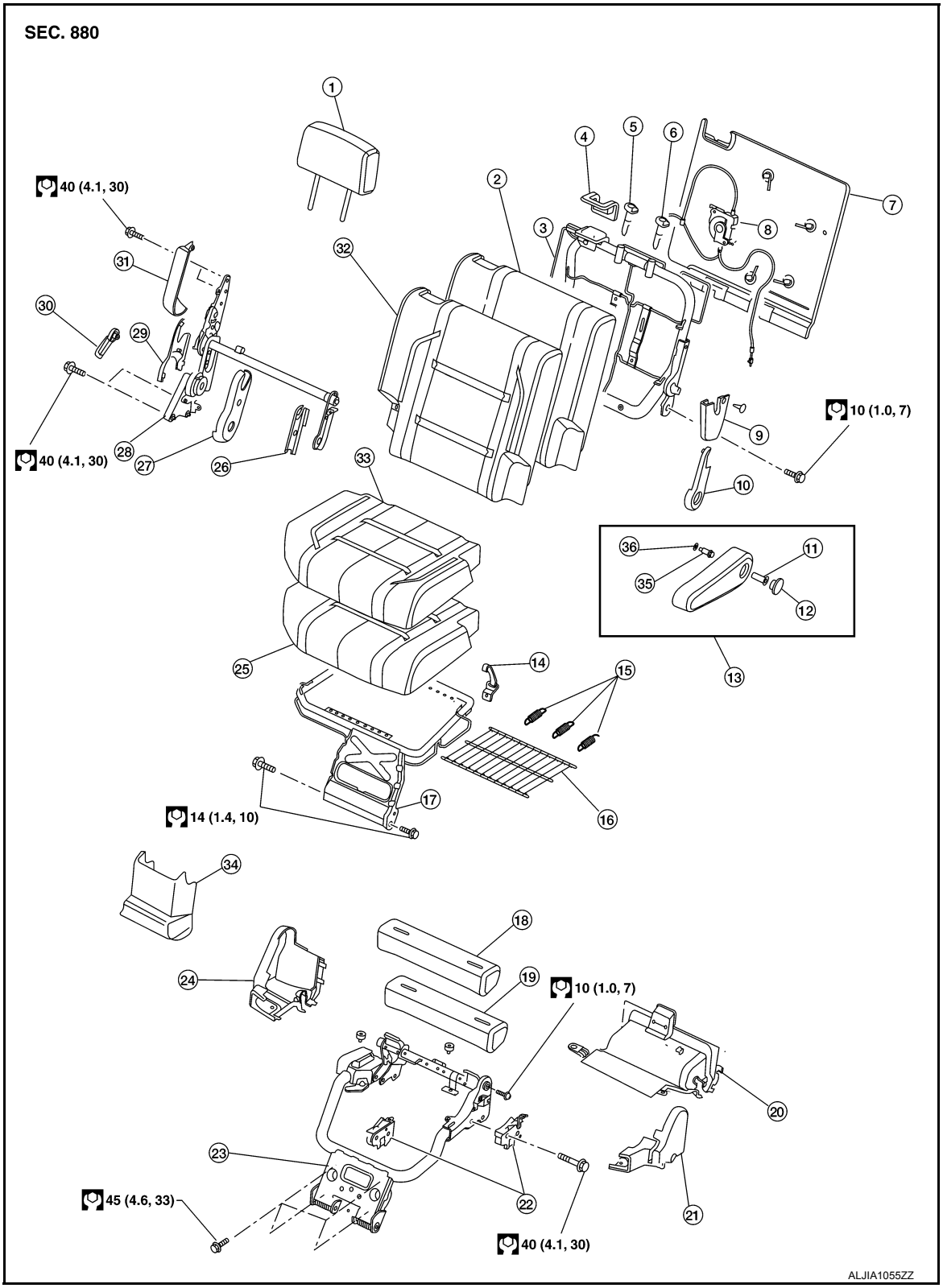
- Tighten the seat cushion assembly bolts to specifications. Refer to SE-59, "Exploded View".

SECOND SEAT

Exploded View

INFOID:0000000009823521

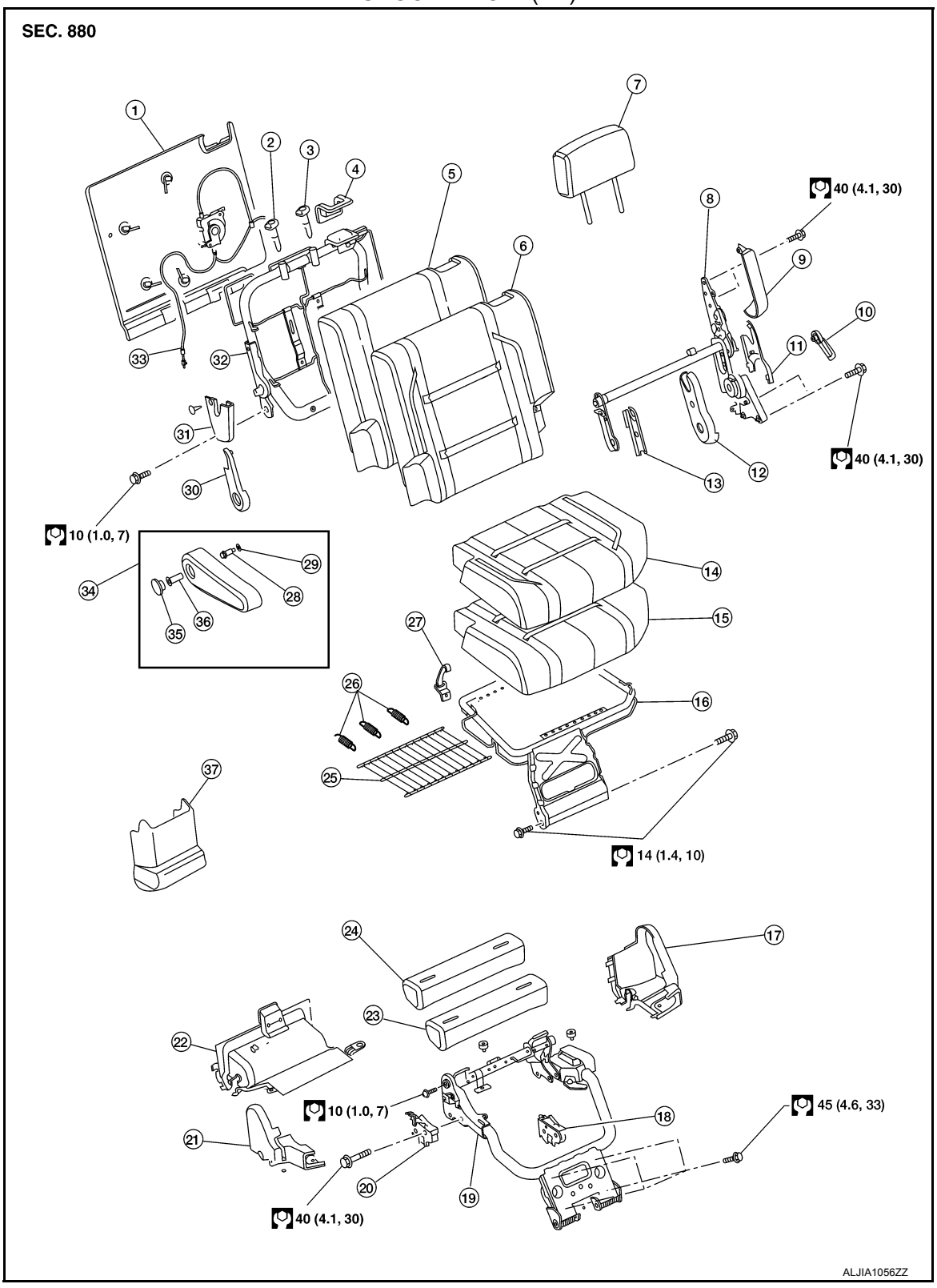
SECOND ROW (RH)



1. Headrest
2. Seatback pad
3. Seatback frame
4. Latch lever finisher
5. Headrest holder (free)
6. Headrest holder (locked)

7. Seatback board	8. Latch release assembly	9. Upper recline mechanism cover (LH)
10. Lower recline mechanism outer cover (LH)	11. Armrest pivot bolt	12. Armrest pivot bolt finisher
13. Armrest assembly	14. Seat cushion latch assembly	15. Seat cushion support spring
16. Seat cushion support	17. Seat cushion frame	18. Seat support trim
19. Seat support pad	20. Lower seat finisher (rear)	21. Recline mechanism finisher (LH)
22. Seat frame latch assembly	23. Seat frame assembly	24. Recline mechanism finisher (RH)
25. Seat cushion pad	26. Lower recline mechanism inner cover (LH)	27. Lower recline mechanism inner cover (RH)
28. Recline mechanism assembly	29. Lower recline mechanism outer cover (RH)	30. Recline lever
31. Upper recline mechanism cover (RH)	32. Seatback trim	33. Seat cushion trim
34. Seat hinge finisher	35. Armrest insert	36. Armrest washer

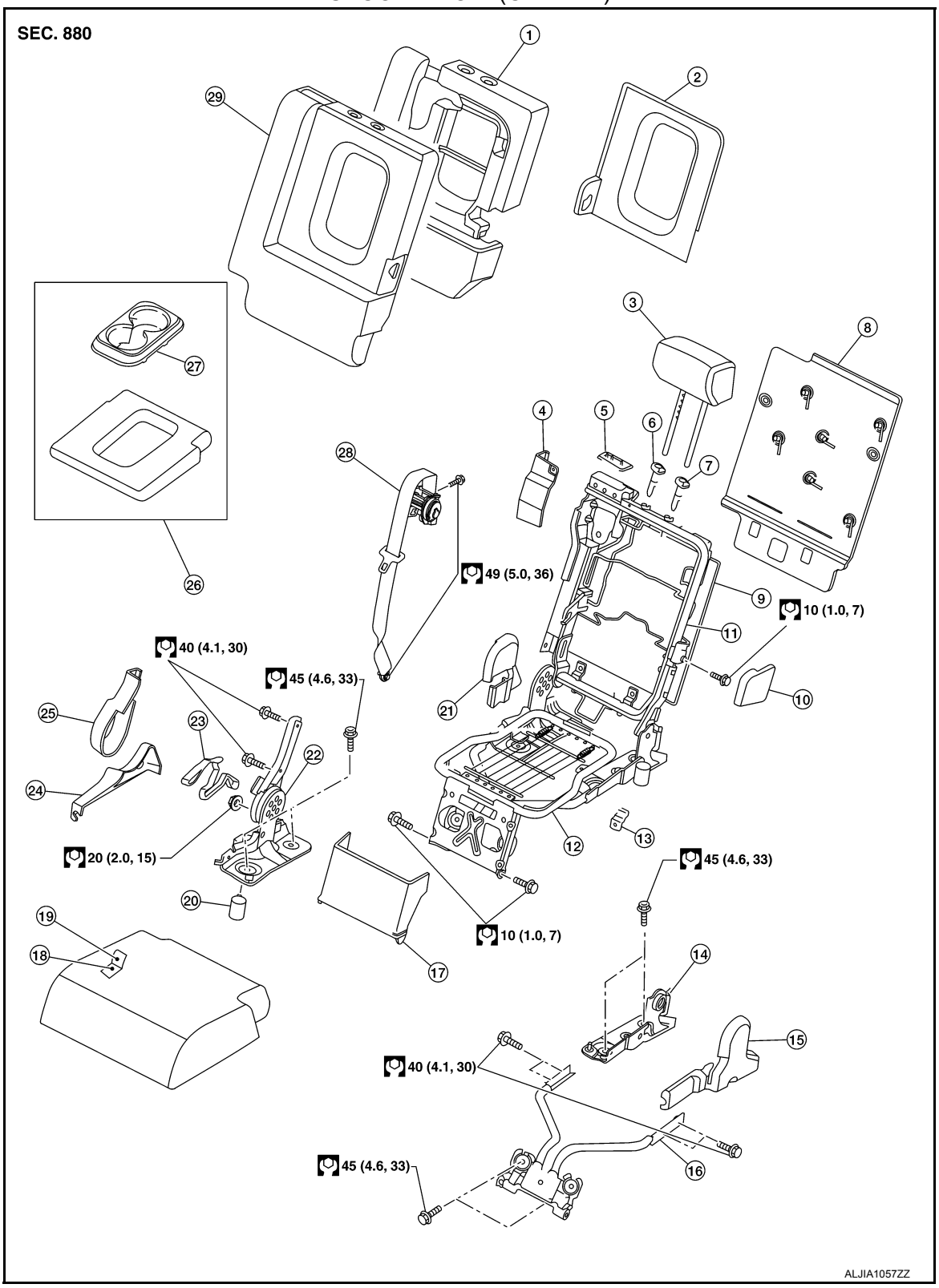
SECOND ROW (LH)



1. Seatback board
2. Headrest holder (free)
3. Headrest holder (locked)
4. Latch lever finisher
5. Seatback pad
6. Seatback trim
7. Headrest
8. Recline mechanism assembly
9. Upper recline mechanism cover (LH)
10. Recline lever
11. Lower recline mechanism outer cover (LH)
12. Lower recline mechanism inner cover (LH)
13. Lower recline mechanism inner cover (RH)
14. Seat cushion trim
15. Seat cushion pad

16. Seat cushion frame
17. Recline mechanism finisher (LH)
18. Seat frame latch assembly
19. Seat frame assembly
20. Seat frame latch assembly
21. Recline mechanism finisher (RH)
22. Lower seat finisher (rear)
23. Seat support pad
24. Seat support trim
25. Seat cushion support
26. Seat cushion support spring
27. Seat cushion latch assembly
28. Armrest insert
29. Armrest washer
30. Lower recline mechanism outer cover (RH)
31. Upper recline mechanism cover (RH)
32. Seatback frame
33. Latch release assembly
34. Armrest assembly
35. Armrest pivot bolt finisher
36. Armrest pivot bolt
37. Seat hinge finisher

SECOND ROW (CENTER)



1. Seatback pad
2. Armrest finisher
3. Headrest
4. Seat belt retractor cover
5. Seat belt retractor finisher
6. Headrest holder (free)
7. Headrest holder (locked)
8. Seatback board
9. Seatback silencer
10. Armrest bracket finisher
11. Seatback frame assembly
12. Seat cushion frame assembly
13. Seat cushion latch assembly
14. Seatback hinge support bracket (LH)
15. Seat frame finisher (LH)
16. Seat base bracket
17. Seat base bracket finisher
18. Seat cushion pad

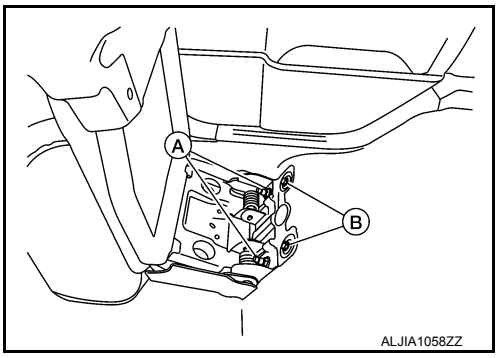
19. Seat cushion trim
20. Cushion stop bumper
21. Inner latch cover (RH)
22. Seatback hinge assembly (RH)
23. Seat lever
24. Seatback frame finisher (RH)
25. Seatback hinge finisher (RH)
26. Armrest assembly
27. Cup holder
28. Seat belt retractor assembly
29. Seatback trim

Removal and Installation - Bucket Seat (LH/RH)

INFOID:0000000009823522

REMOVAL

1. Tilt seat to the forward position.
2. Remove two nuts (A), two bolts (B) and the seat assembly.



INSTALLATION

Installation is in the reverse order of removal.

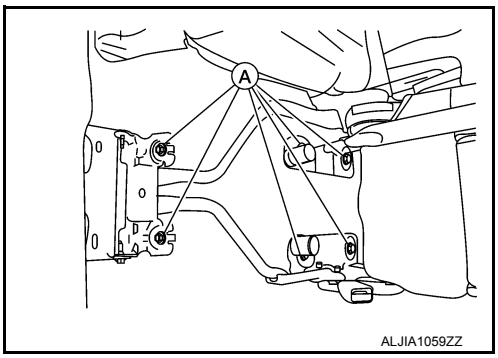
- Tighten the seat nuts and bolts to specification. Refer to SE-67, "Exploded View".

Removal and Installation - Center Seat

INFOID:0000000009823523

REMOVAL

1. Tilt the seat cushion to the forward position.
2. Remove the six seat bolts (A).



3. Tilt the seat cushion back in the locked position and remove the seat.

INSTALLATION

Installation is in the reverse order of removal.

- Tighten the seat bolts to specification. Refer to SE-73, "Exploded View".

THIRD SEAT

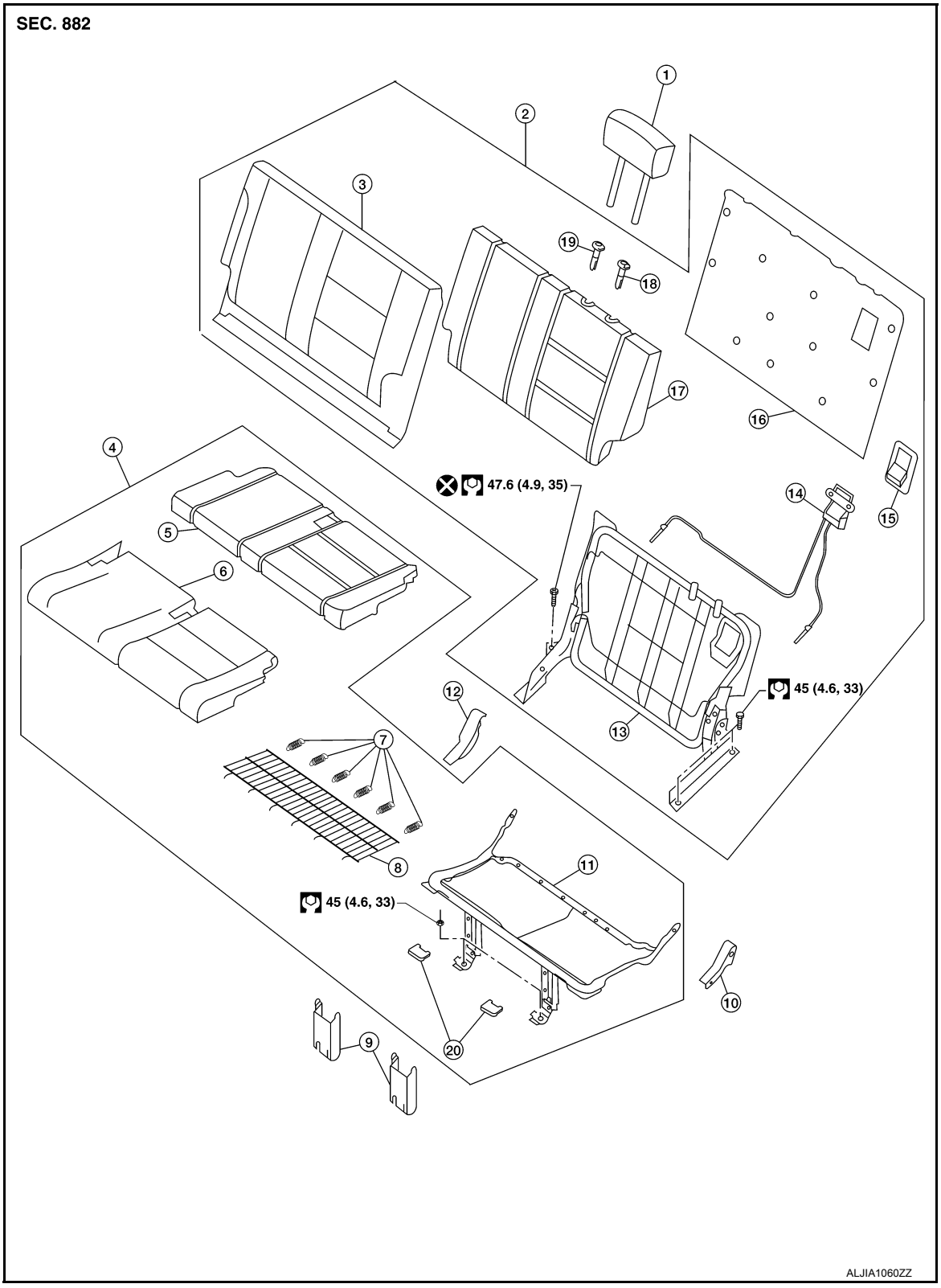
Without Power Folding

INFOID:0000000009823524

Exploded View

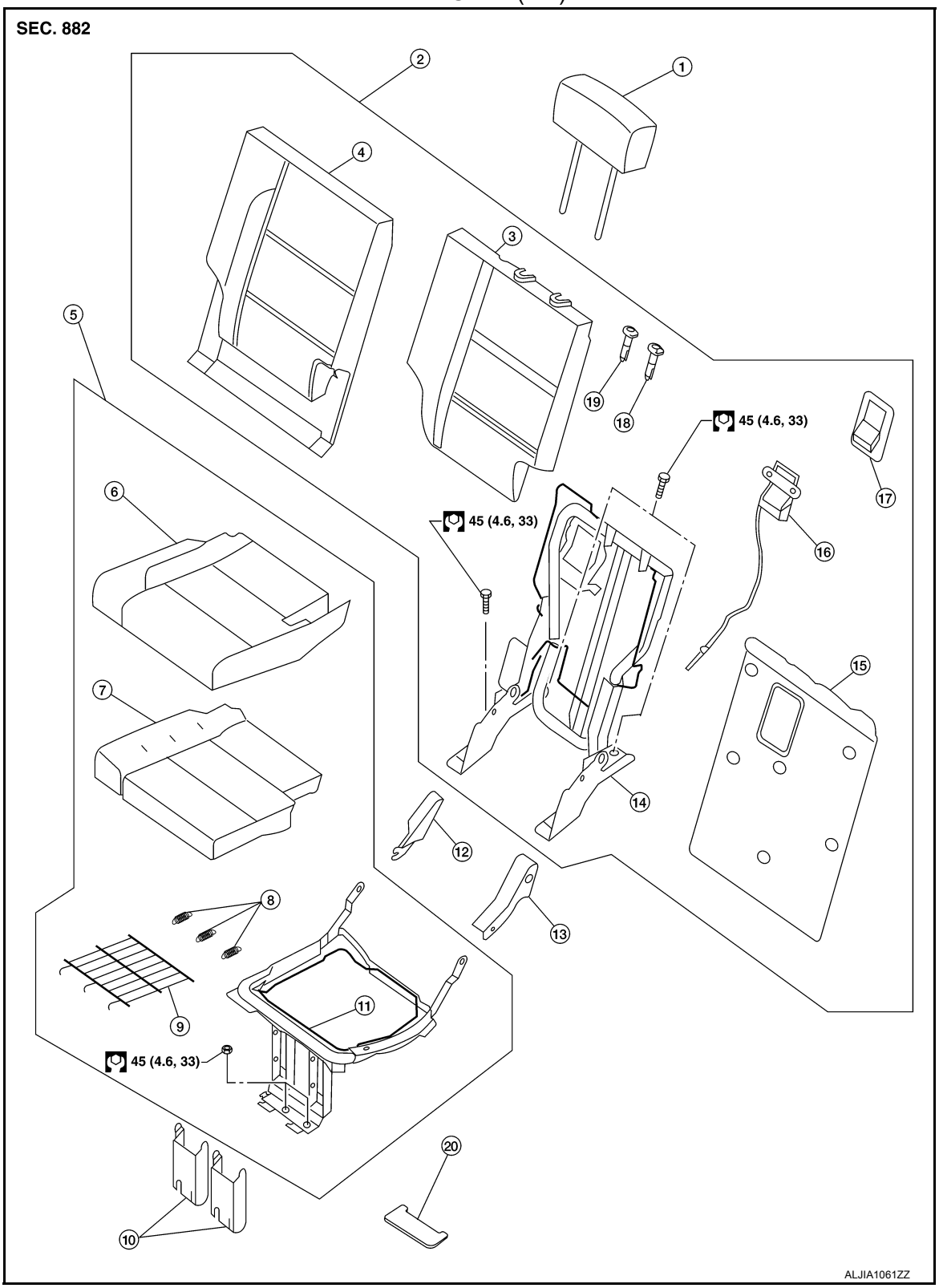
INFOID:0000000009823525

THIRD SEAT (LH)



1. Headrest
2. Seatback assembly
3. Seatback trim
4. Seat cushion assembly
5. Seat cushion pad
6. Seat cushion trim
7. Seat cushion support spring
8. Seat cushion support
9. Seat cushion frame lower finisher
10. Hinge finisher (LH)
11. Seat cushion frame
12. Hinge finisher (RH)
13. Seatback frame assembly
14. Seatback release assembly
15. Seatback release finisher
16. Seatback board
17. Seatback pad
18. Headrest holder (locked)
19. Headrest holder (free)
20. Seat nut finisher

THIRD SEAT (RH)



1. Headrest
2. Seatback assembly
3. Seatback pad
4. Seatback trim
5. Seat cushion assembly
6. Seat cushion trim
7. Seat cushion pad
8. Seat cushion support spring
9. Seat cushion support
10. Seat cushion frame lower finisher
11. Seat cushion frame
12. Hinge finisher (RH)
13. Hinge finisher (LH)
14. Seatback frame assembly
15. Seatback board

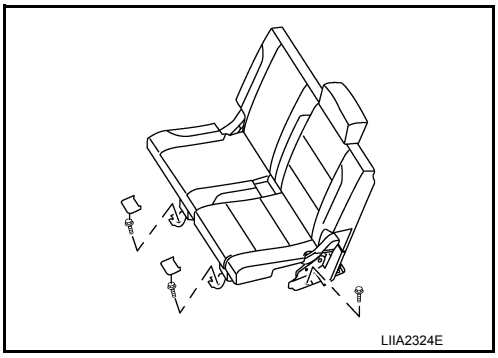
16. Seatback release assembly
17. Seatback release finisher
18. Headrest holder (locked)
19. Headrest holder (free)
20. Seat nut finisher

Removal and Installation - LH Seat

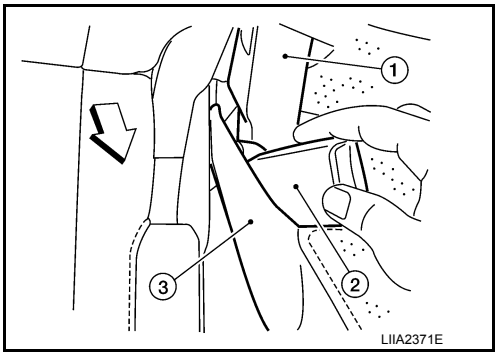
INFOID:0000000009823526

REMOVAL

1. Remove the storage bin. Refer to INT-24.
2. Remove the seat nut finishers.
3. Remove the two front nuts and the front LH seatback frame assembly bolt.

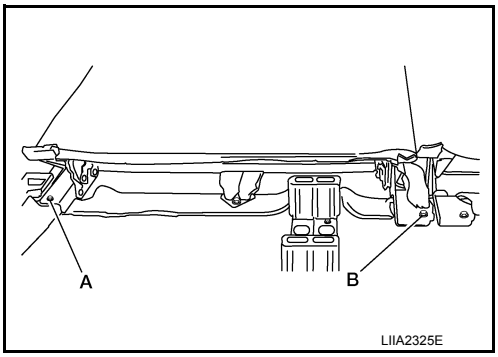

LIIA2324E

4. Remove the seat cushion side facing retainer clip and release elastic band from seat belt buckle.
5. Partially lift seatback upright, then remove seat belt buckle (2) from between the hinge finisher (RH) (1) and the seat cushion trim (3).
   ⇦: Front



LIIA2371E

6. Move the seat to the folded flat position.
7. Remove the rear seat bolt (A) and the seat belt buckle bolt (B).
   CAUTION:
   Do not reuse the seat belt buckle bolt.



LIIA2325E

8. Remove the seat assembly.

INSTALLATION

Installation is in the reverse order of removal.
- Tighten the seat nuts and bolts to specification. Refer to SE-73, "Exploded View".
- Tighten the seat belt buckle bolt to specification. Refer to SB-16, "Removal and Installation of Third Row Seat Belt".

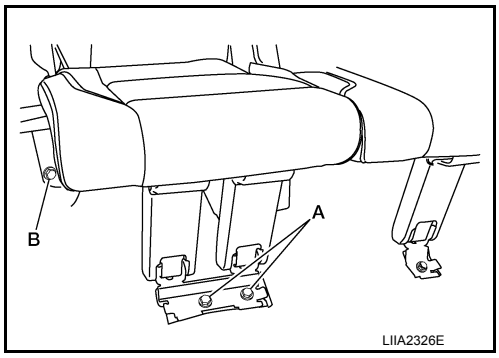
Removal and Installation - RH Seat

INFOID:0000000009823527

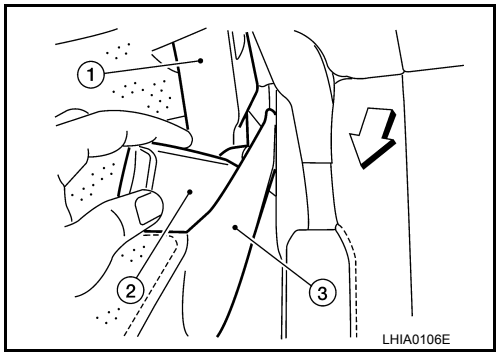
REMOVAL

1. Remove the storage bin. Refer to INT-24.

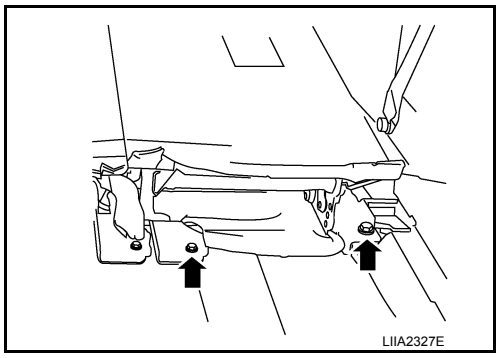
2. Remove the seat nut finisher.
3. Remove the two front nuts (A) and the front RH seatback frame assembly bolt (B).



4. Remove the seat cushion side facing retainer clip and release elastic band from seat belt buckle.
5. Partially lift seatback upright, then remove seat belt buckle (2) from between the hinge finisher (LH) (1) and the seat cushion trim (3).
   ⇦: Front
6. Move the seat to the folded flat position.



7. Remove the rear bolts and the seat assembly.



INSTALLATION

Installation is in the reverse order of removal.

- Tighten the seat nuts and bolts to specification. Refer to SE-73, "Exploded View".

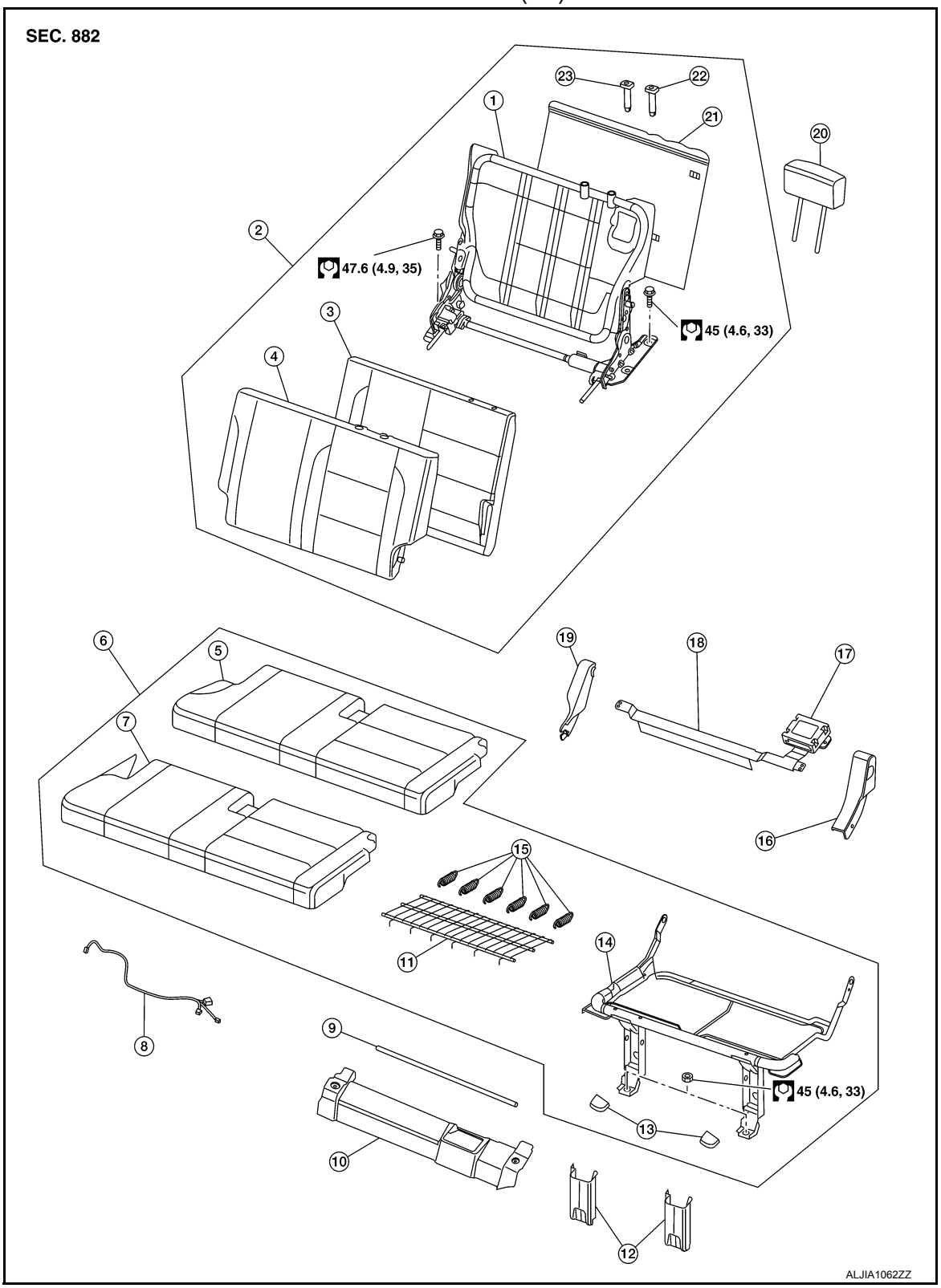
With Power Folding

INFOID:0000000009823528

Exploded View

INFOID:0000000009823529

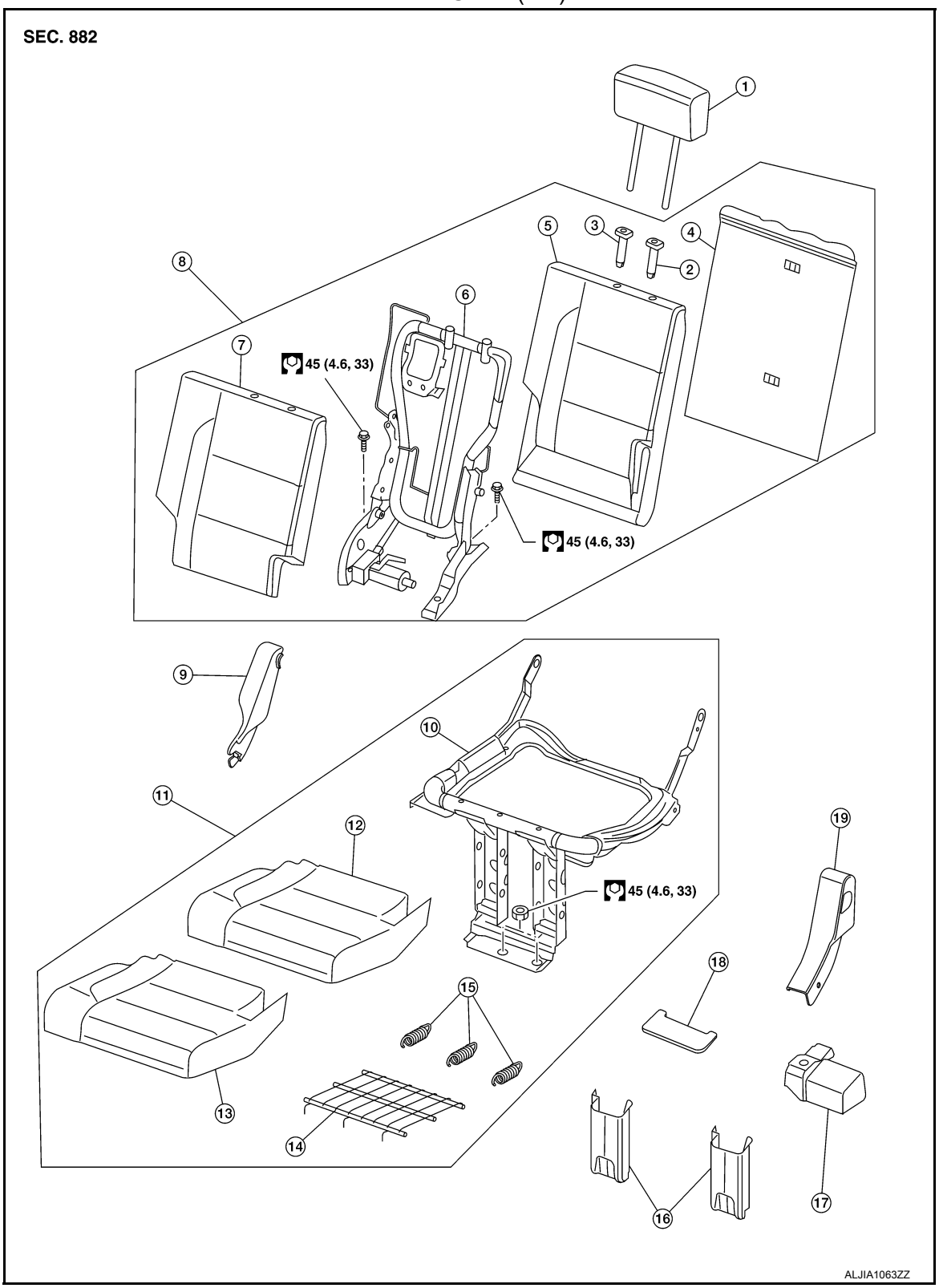
THIRD SEAT (LH)



1. Seatback frame assembly
2. Seatback assembly
3. Seatback pad
4. Seatback trim
5. Seat cushion pad
6. Seat cushion assembly

7. Seat cushion trim
8. Seat harness
9. Power seat cable
10. Seat motor cover
11. Seat cushion support
12. Seat cushion frame lower finisher
13. Seat nut finisher
14. Seat cushion frame
15. Seat cushion support spring
16. Hinge finisher (LH)
17. Seat control unit
18. Power seat cross beam
19. Hinge finisher (RH)
20. Headrest
21. Seatback board
22. Headrest holder (locked)
23. Headrest holder (free)

THIRD SEAT (RH)



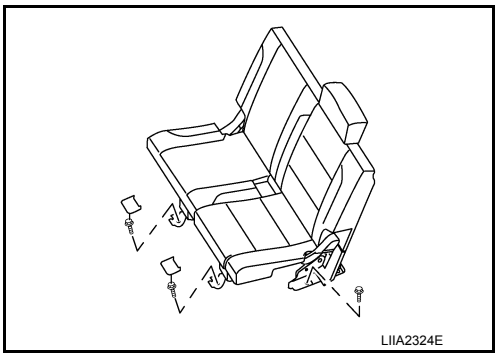
1. Headrest
2. Headrest holder (locked)
3. Headrest holder (free)
4. Seatback board
5. Seatback pad
6. Seatback frame assembly
7. Seatback trim
8. Seatback assembly
9. Hinge finisher (RH)
10. Seat cushion frame
11. Seat cushion assembly
12. Seat cushion pad
13. Seat cushion trim
14. Seat cushion support
15. Seat cushion support spring
16. Seat cushion frame lower finisher
17. Seat motor cover
18. Seat nut finisher
19. Hinge finisher (LH)

Removal and Installation - LH Seat

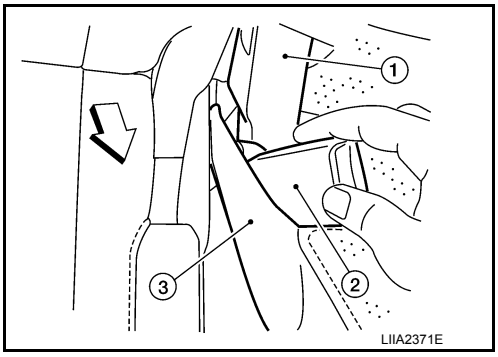
INFOID:0000000009823530

REMOVAL

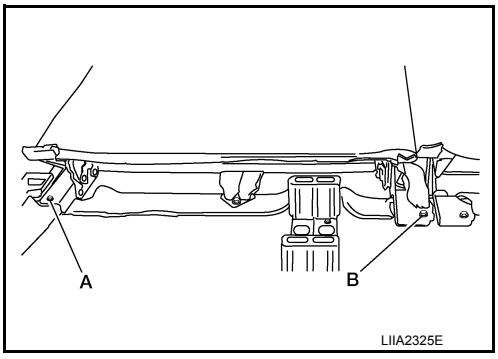
1. Remove the storage bin. Refer to INT-24.
2. Remove the seat nut finishers.
3. Remove the two front nuts and the front LH seatback frame assembly bolt.



4. Remove the seat cushion side facing retainer clip and release elastic band from seat belt buckle.
5. Partially lift seatback upright, then remove seat belt buckle (2) from between the hinge finisher (RH) (1) and seat cushion trim (3).
   ⇦: Front



6. Move the seat to the folded flat position.
7. Remove the rear seat bolt (A) and seat belt buckle bolt (B).
   CAUTION:
   Do not reuse the seat belt buckle bolt.



8. Disconnect the seat harness.
9. Remove the seat assembly.

INSTALLATION

Installation is in the reverse order of removal.

- Tighten the seat nuts and bolts to specification. Refer to SE-78, "Exploded View".

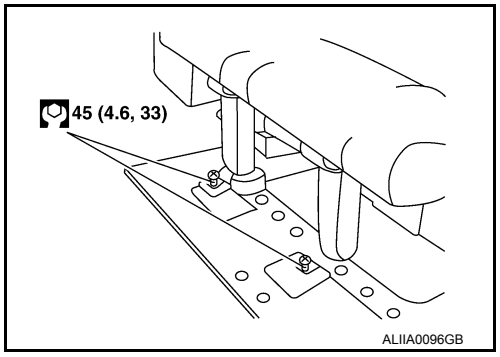
- Tighten the seat belt buckle bolt to specification. Refer to SB-16, "Removal and Installation of Third Row Seat Belt".

Removal and Installation - Power Seat Cross Beam

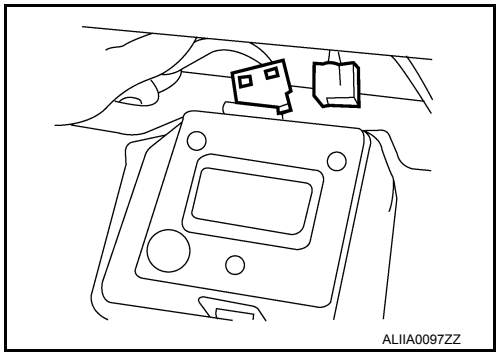
INFOID:0000000009823531

REMOVAL

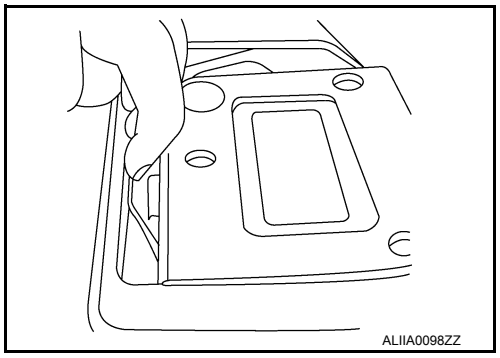
1. Remove the two front seat nuts.
2. Fold the seat cushion up.



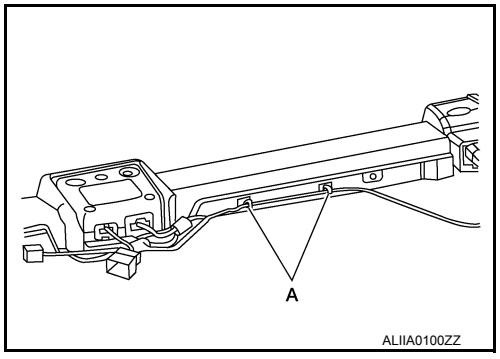
3. Disconnect the harness connectors from the seat control unit.



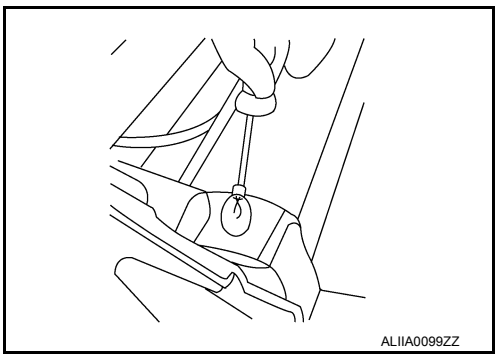
4. Press the front release tab and remove the seat control unit.



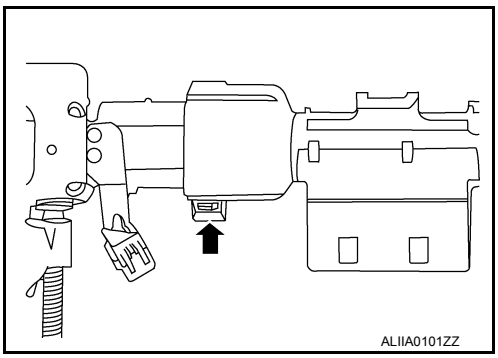
5. Unclip the wiring harness from the seat motor cover clips (A).



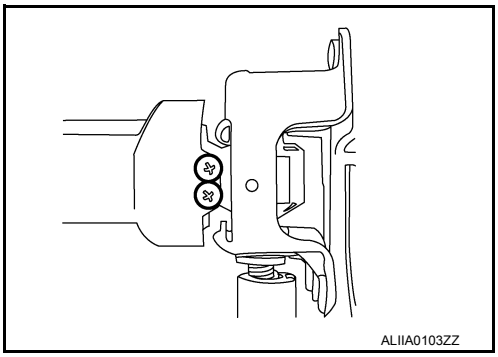
6. Remove the screws from the seat motor cover and the seat motor cover.



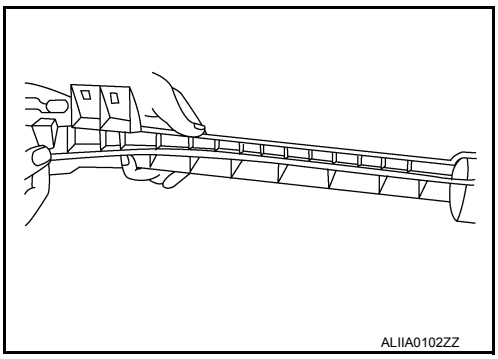
7. Release the power seat cross beam clip and open the hinged strap.



8. Remove the power seat cross beam screws and the power seat cross beam.
NOTE:
The power seat cable will be removed with the cross-beam.

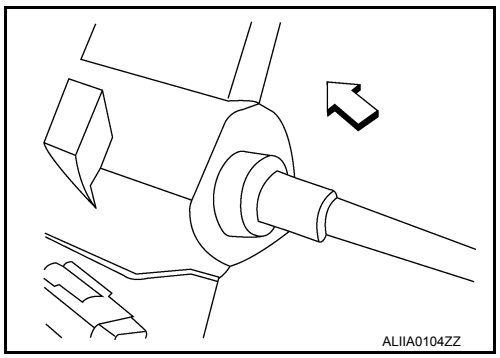


9. Remove the power seat cable from the power seat cross beam.

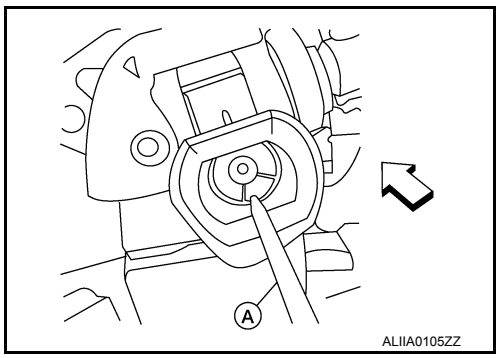


INSTALLATION

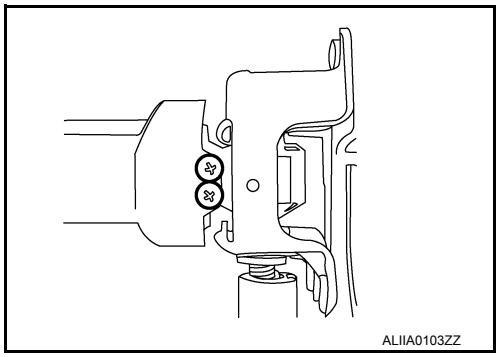
1. Install the power seat cable into the seat motor and slide the conduit on the motor ferrule.
   ⇦: Front



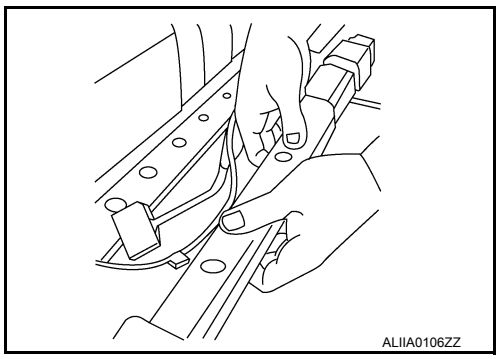
2. Install the power seat cable (A) into the seat motor.
   ⇦: Front



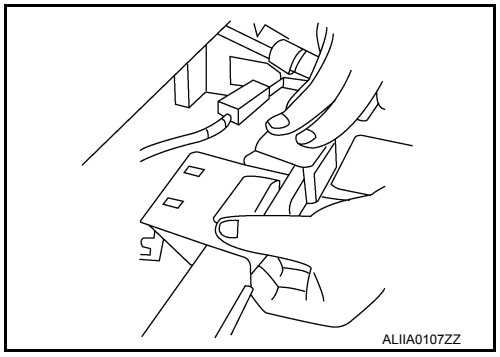
3. Install the power seat cross beam RH side screws



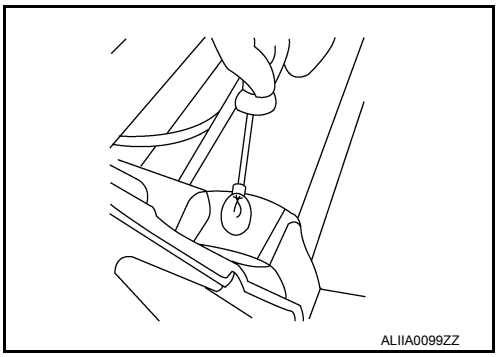
4. Starting at the RH side, snap the power seat cable into the power seat cross beam retainer clips.



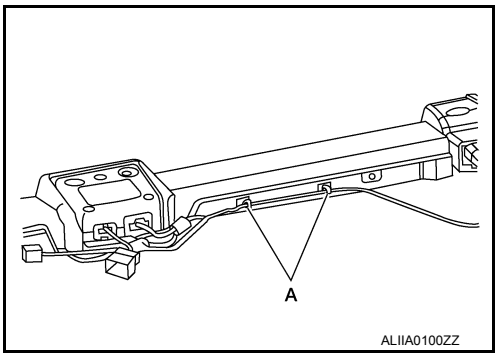
5. Snap the hinged strap retainer around the seat motor.



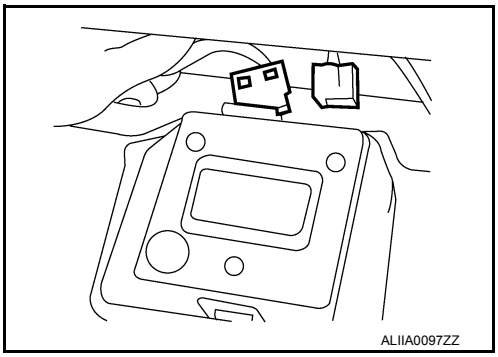
6. Replace the seat motor cover.



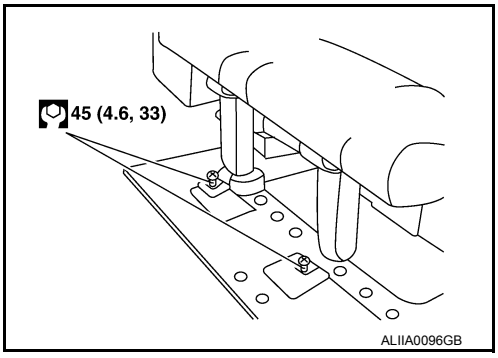
7. Install the seat harness to the seat motor cover clips (A).



8. Install the seat control unit and connect the seat control unit harness connectors.



9. Install the two front seat nuts.

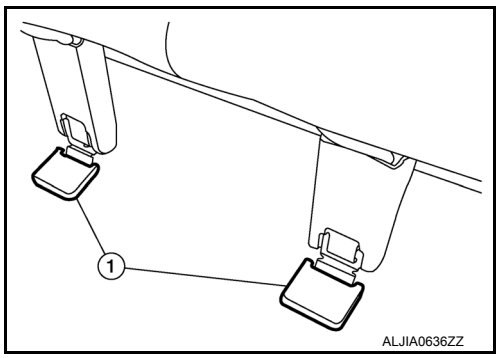


Removal and Installation - Power Seat Cable

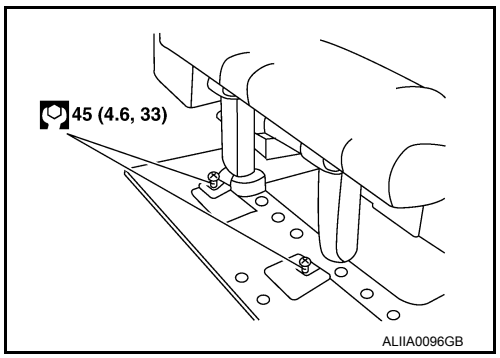
INFOID:0000000009823532

REMOVAL

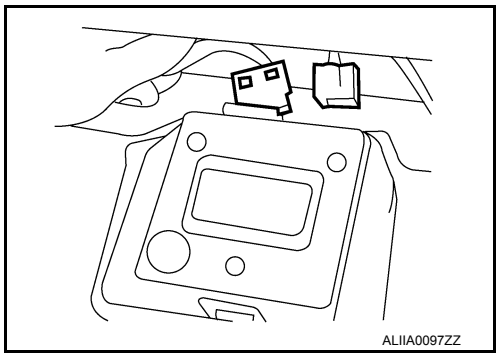
1. Remove the seat nut finishers (1).



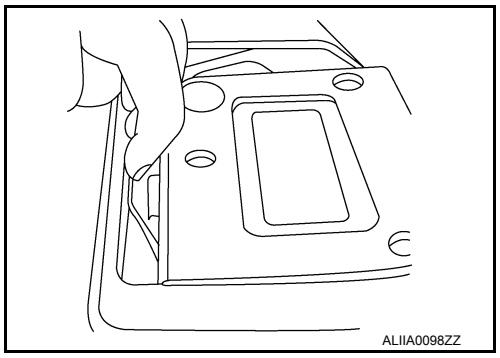
2. Remove the two seat nuts.



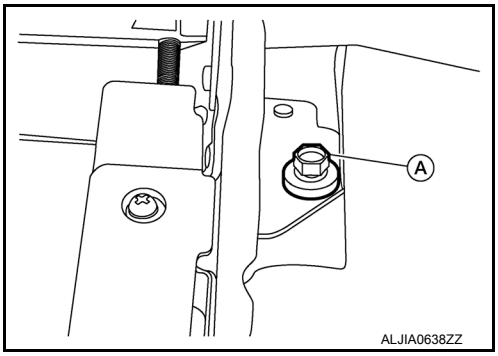
3. Partially lift seatback upright, then remove seat belt buckles from between seatback and seat cushion.
   • Use the center position shoulder belt to hold the seat cushion up.
4. Disconnect the harness connectors from the seat control unit.



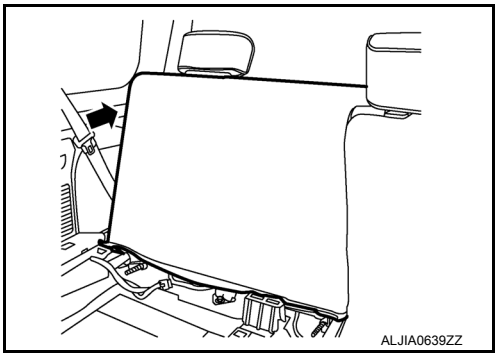
5. Press the front release tab and remove the seat control unit.



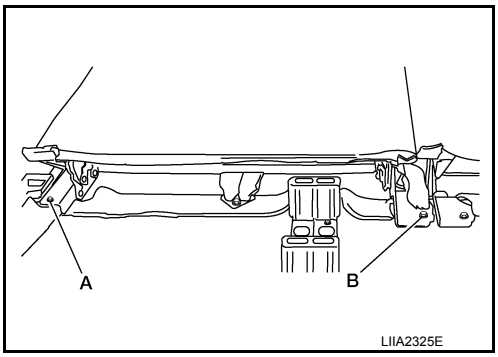
6. Remove the front bolt (A) on the LH side of the seatback assembly.



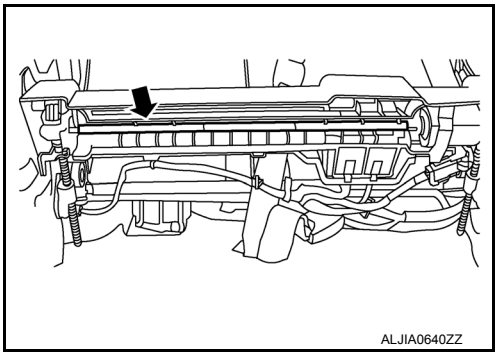
7. Remove the cargo cover from behind the third row seat. Refer to INT-24, "Removal and Installation".
8. Using the power seat switch, position the seat forward as shown.



9. Remove the rear seat bolt (A) and the rear seat bolt (B).

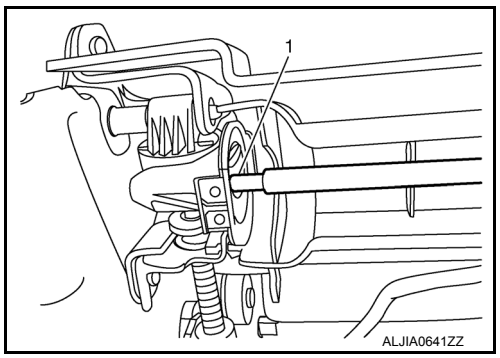


10. Tilt the third row seat back (toward the rear of the vehicle).
11. Starting from the center and working outward, remove the power seat cable from the retainers.

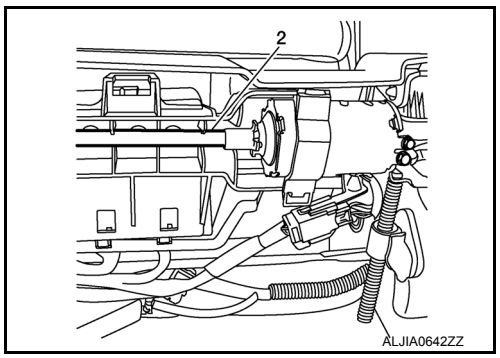


12. Remove the power seat cable.
CAUTION:
Do not rotate the power seat motor or the drive gear. Rotating either will take the assembly out of synchronization and could lead to seat binding when operated.

a. Remove from the drive gear (1).



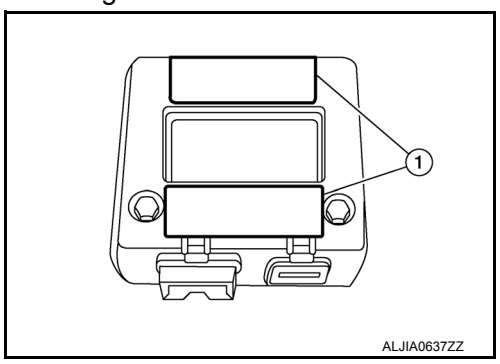
b. Remove from the seat motor (2)



INSTALLATION

Installation is in the reverse order of removal.

- Install the new power seat cable into the seat motor first, then into the drive gear.
- Apply two pieces of urethane pad (1) on the bottom of the seat control unit as shown.

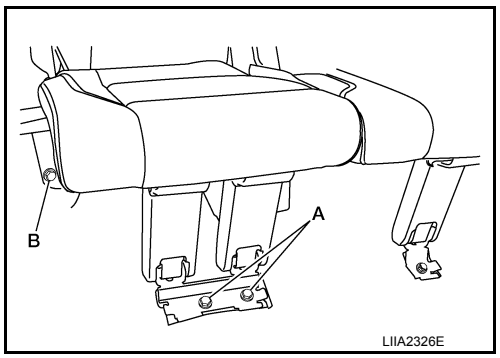


Removal and Installation - RH Seat

INFOID:0000000009823533

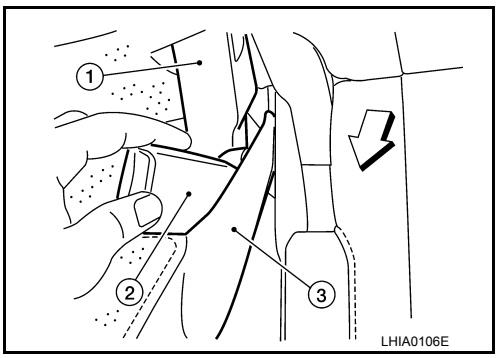
REMOVAL

1. Remove the storage bin. Refer to INT-24.
2. Remove the seat nut finisher.
3. Remove front seat nuts (A) and front RH seatback assembly bolt (B).

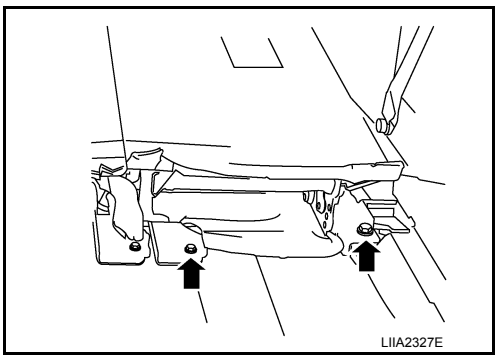


4. Remove the seat cushion side facing retainer clip and release elastic band from seat belt buckle.

5. Partially lift seatback upright, then remove seat belt buckle (2) from between the hinge finisher (LH) (1) and the seat cushion trim (3).
   ⇦: Front



6. Move the seat to the folded flat position.
7. Remove the rear bolts from the seat assembly.



8. Disconnect the seat harness.
9. Remove the seat assembly.

INSTALLATION

Installation is in the reverse order of removal.

- Tighten the seat nuts and bolts to specification. Refer to SE-78, "Exploded View".

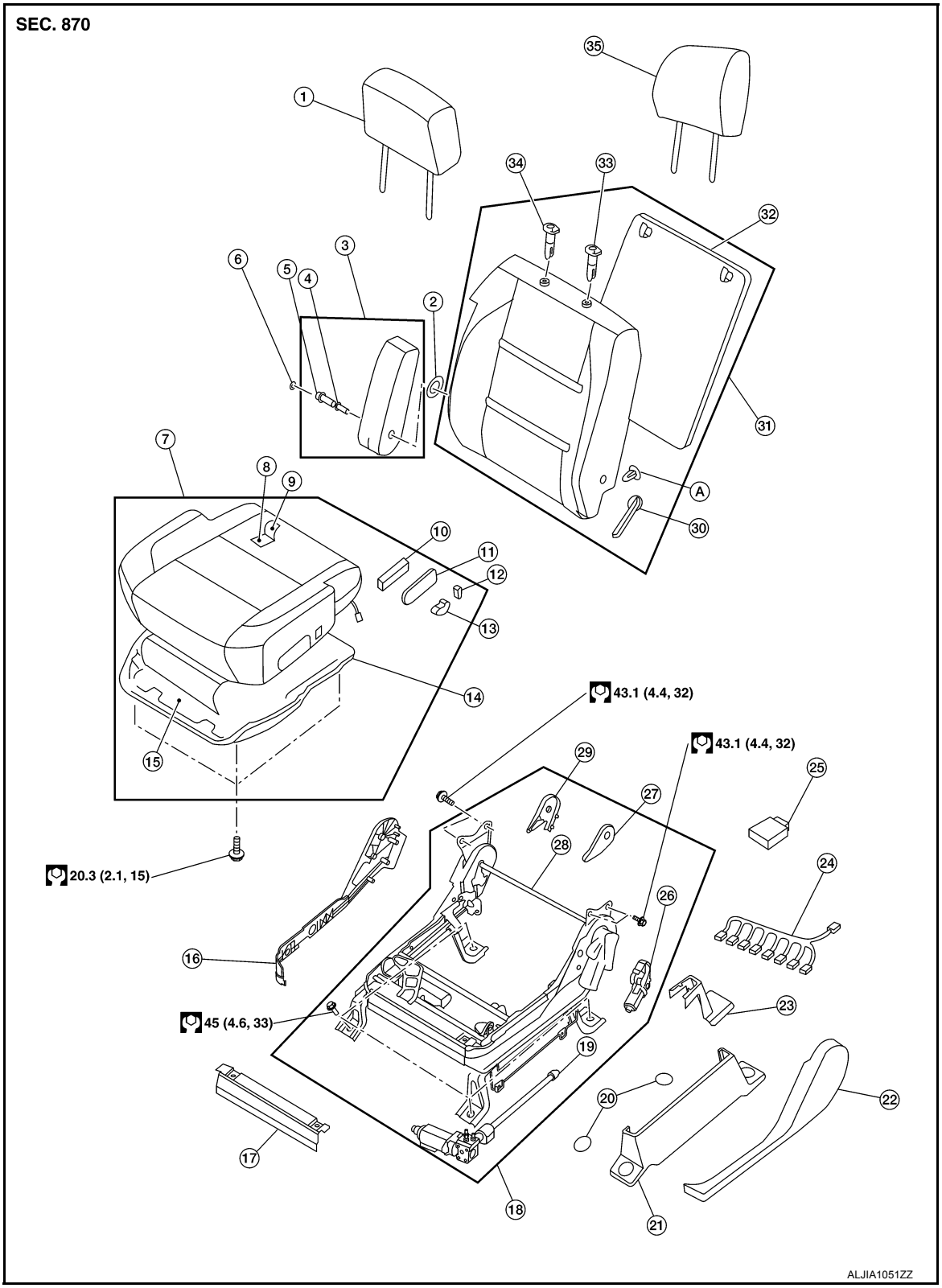
UNIT DISASSEMBLY AND ASSEMBLY

FRONT SEAT

Exploded View

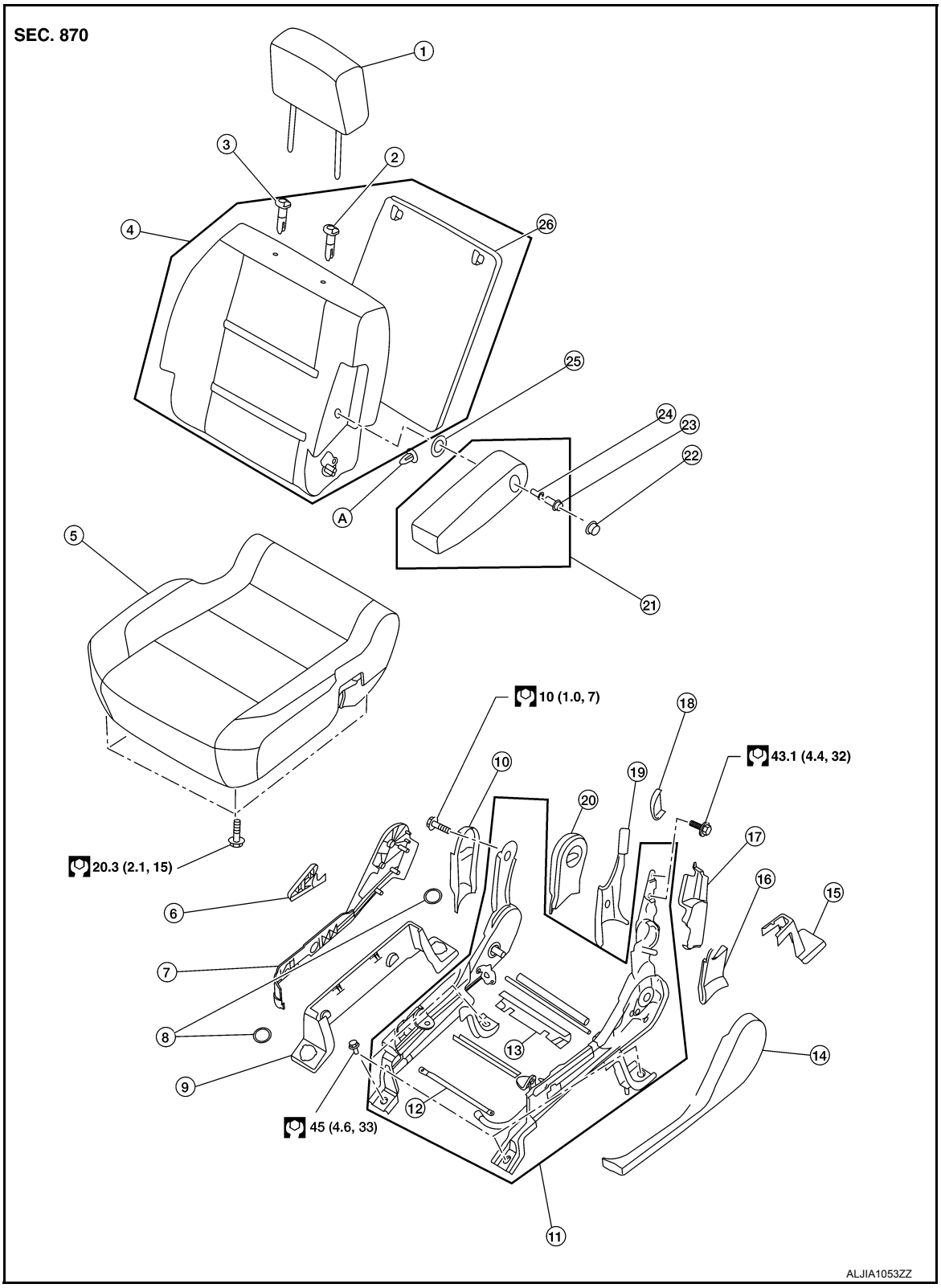
INFOID:0000000009823534

DRIVER SEAT



1. Headrest without display
2. Armrest washer
3. Armrest assembly
4. Armrest insert
5. Armrest pivot bolt
6. Armrest pivot bolt finisher
7. Seat cushion assembly
8. Seat cushion pad
9. Seat cushion trim
10. Power seat switch
11. Power seat switch finisher
12. Seat recline knob
13. Seat slide knob
14. Seat cushion frame
15. Seat cushion heater (if equipped)
16. Seat cushion outer finisher (RH)
17. Seat cushion front finisher
18. Seat frame assembly
19. Seat slide motor
20. Bolt cover
21. Slide finisher (LH)
22. Seat cushion outer finisher (LH)
23. Slide finisher rear (RH)
24. Seat harness
25. Power seat control unit
26. Recline motor
27. Recline mechanism cover (LH)
28. Recline rod
29. Recline mechanism cover (RH)
30. Lumbar lever
31. Seatback assembly
32. Seatback board
33. Headrest holder (locked)
34. Headrest holder (free)
35. Headrest with display
A. Seatback board clip

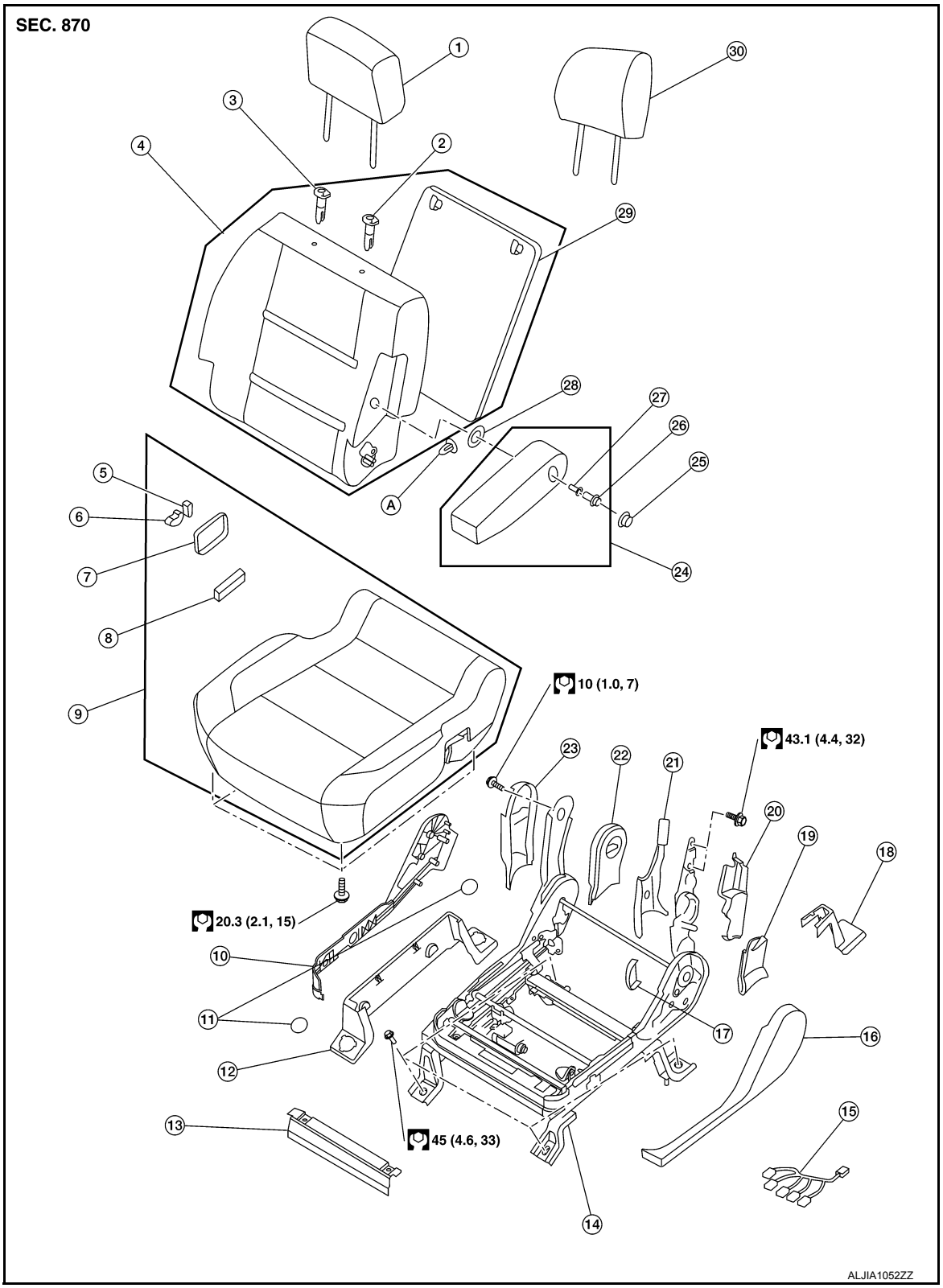
PASSENGER SEAT - FOLD FLAT



1. Headrest
2. Headrest holder (locked)
3. Headrest holder (free)
4. Seatback assembly
5. Seat cushion assembly
6. Recline lever
7. Seat cushion outer finisher (RH)
8. Bolt cover
9. Slide finisher (RH)
10. Recline mechanism outer cover (RH)
11. Seat frame assembly
12. Slide release wire
13. Seat frame cover (rear)
14. Seat cushion outer finisher (LH)
15. Slide finisher rear (LH)
16. Recline mechanism outer cover (LH)
17. Hinge cover outer (LH)
18. Armrest inner cover

19. Recline mechanism inner cover (LH)
20. Recline mechanism inner cover (RH)
21. Armrest assembly
22. Armrest pivot bolt finisher
23. Armrest pivot bolt
24. Armrest insert
25. Armrest washer
26. Seatback board
A. Seatback board clip

PASSENGER SEAT - POWER



1. Headrest without display
2. Headrest holder (locked)
3. Headrest holder (free)
4. Seatback assembly
5. Seat recline knob
6. Seat slide and lifter switch knob

7. Power seat switch finisher
8. Power seat switch
9. Seat cushion assembly
10. Seat cushion outer finisher (RH)
11. Bolt cover
12. Slide finisher (RH)
13. Seat cushion front finisher
14. Seat frame assembly
15. Seat harness
16. Seat cushion outer finisher (LH)
17. Armrest inner cover
18. Slide finisher rear (LH)
19. Recline mechanism outer cover (LH)
20. Hinge cover outer (LH)
21. Recline mechanism inner cover (LH)
22. Recline mechanism inner cover (RH)
23. Recline mechanism outer cover (RH)
24. Armrest assembly
25. Armrest pivot bolt finisher
26. Armrest pivot bolt
27. Armrest insert
28. Armrest washer
29. Seatback board
30. Headrest with display
A. Seatback board clip

Disassembly and Assembly

INFOID:0000000009823535

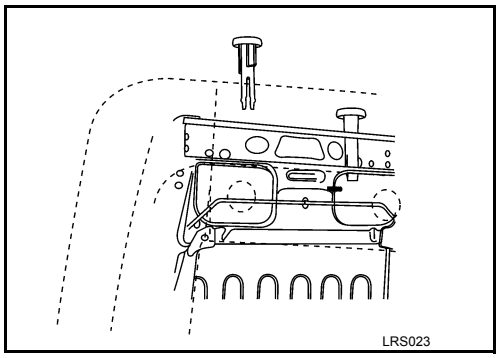
SEATBACK TRIM AND PAD

Disassembly

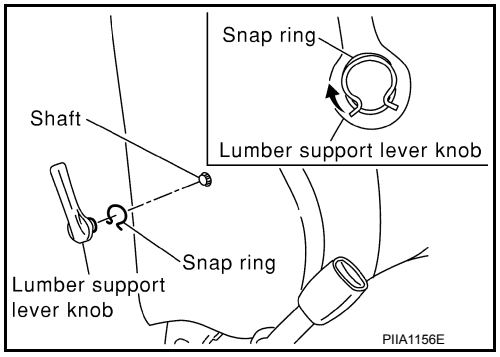
CAUTION:

- **Only complete seatback assemblies can be replaced on vehicles equipped with side air bags.**
- **When removing or installing the seat trim, handle it carefully to keep dirt out and avoid damage.**

1. Remove the seatback assembly. Refer to SE-63, "Removal and Installation - Front Seat Assembly".
2. Remove the headrest.
3. From inside of the seatback, squeeze the headrest holder tabs at the base of the stay pipe and pull the up to remove.
   NOTE:
   Before installing the headrest holder, check its orientation (front/rear and right/left).



4. Remove the snap ring and the lumbar support lever knob (if equipped).



5. Remove the seatback trim and pad assembly.
6. Remove the hog rings to separate the seatback trim from the pad.

Assembly

Assembly is in the reverse order of disassembly.

SEAT CUSHION TRIM AND PAD

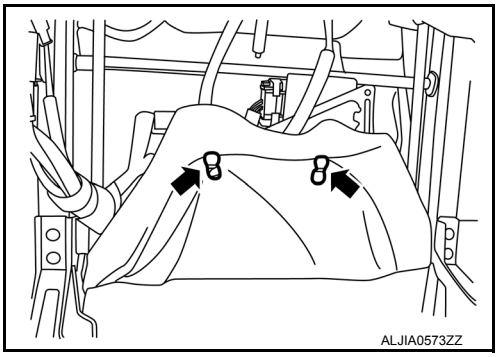
Disassembly

CAUTION:

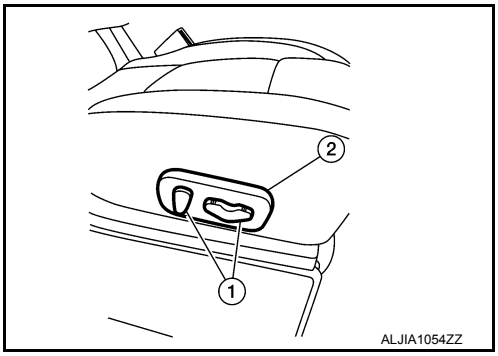
- **Front passenger seat is equipped with an Occupant Classification System sensor and control module. Do not disassemble front passenger seat cushion assembly or remove the trim as this will affect the Occupant Classification System calibration.**
- **Always replace passenger seat cushion as an assembly.**

- **When removed, the passenger seat cushion must always be placed pan side UP to prevent damage.**
- **During installation, the wire harness clips must be reinstalled in the holes they were originally in. Do not add additional clips.**
- **The Occupant Classification System control module can only be replaced as part of the seat cushion assembly.**

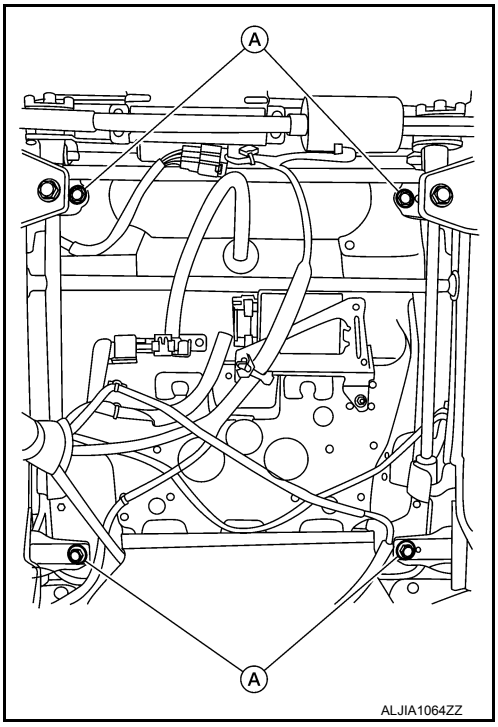
1. Release the trim at bottom of seat as shown.



2. Remove the seat recline knob and seat slide and lifter switch knob (1), then the power seat switch finisher (2).



3. Remove the four seat cushion assembly bolts (A) from the seat frame assembly.



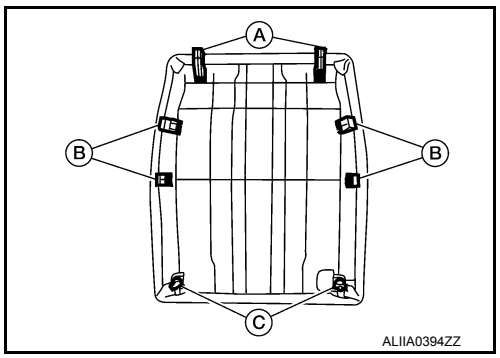
4. Remove the seat cushion trim and seat cushion pad as an assembly from the seat cushion frame.
5. Remove the hog rings to separate the seat cushion trim from the seat cushion pad.

Assembly
Assembly is in the reverse order of disassembly.

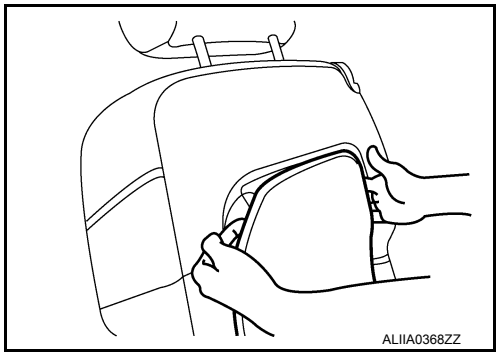
PASSENGER SEATBACK BOARD - SOFT SEATBACK

Removal

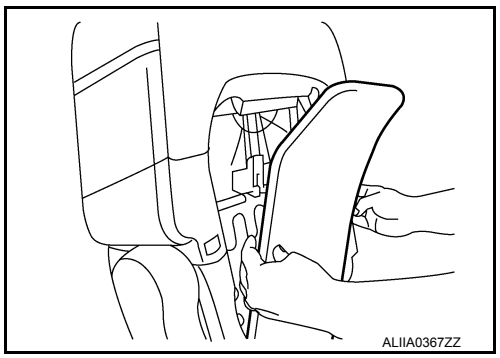
1. The seatback board is attached to the seat frame with the following:
   - Two top tabs (A)
   - Four side tabs (B)
   - Two bottom clips (C) (must be replaced)
2. Move seat to forward position.



3. Hold the seatback board as shown and pull the top of the seatback board away from the seatback frame.



4. Pull the middle part of the seatback board to disengage the side tabs from the seatback frame.
5. Pull the lower part of the seatback board to disengage the bottom clips from the seatback frame.



Installation

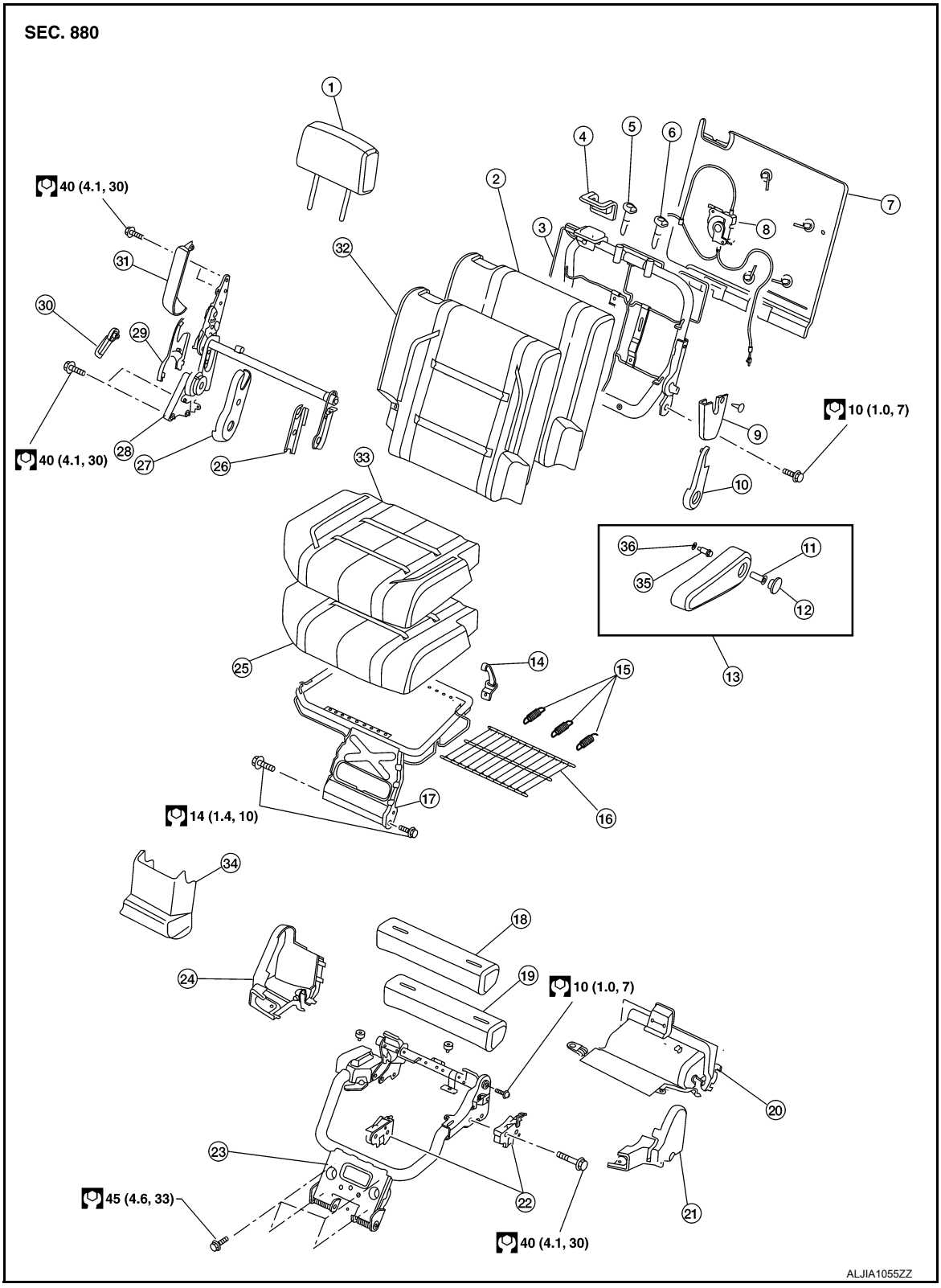
Installation is in the reverse order of removal.

SECOND SEAT

Exploded View

INFOID:0000000009823536

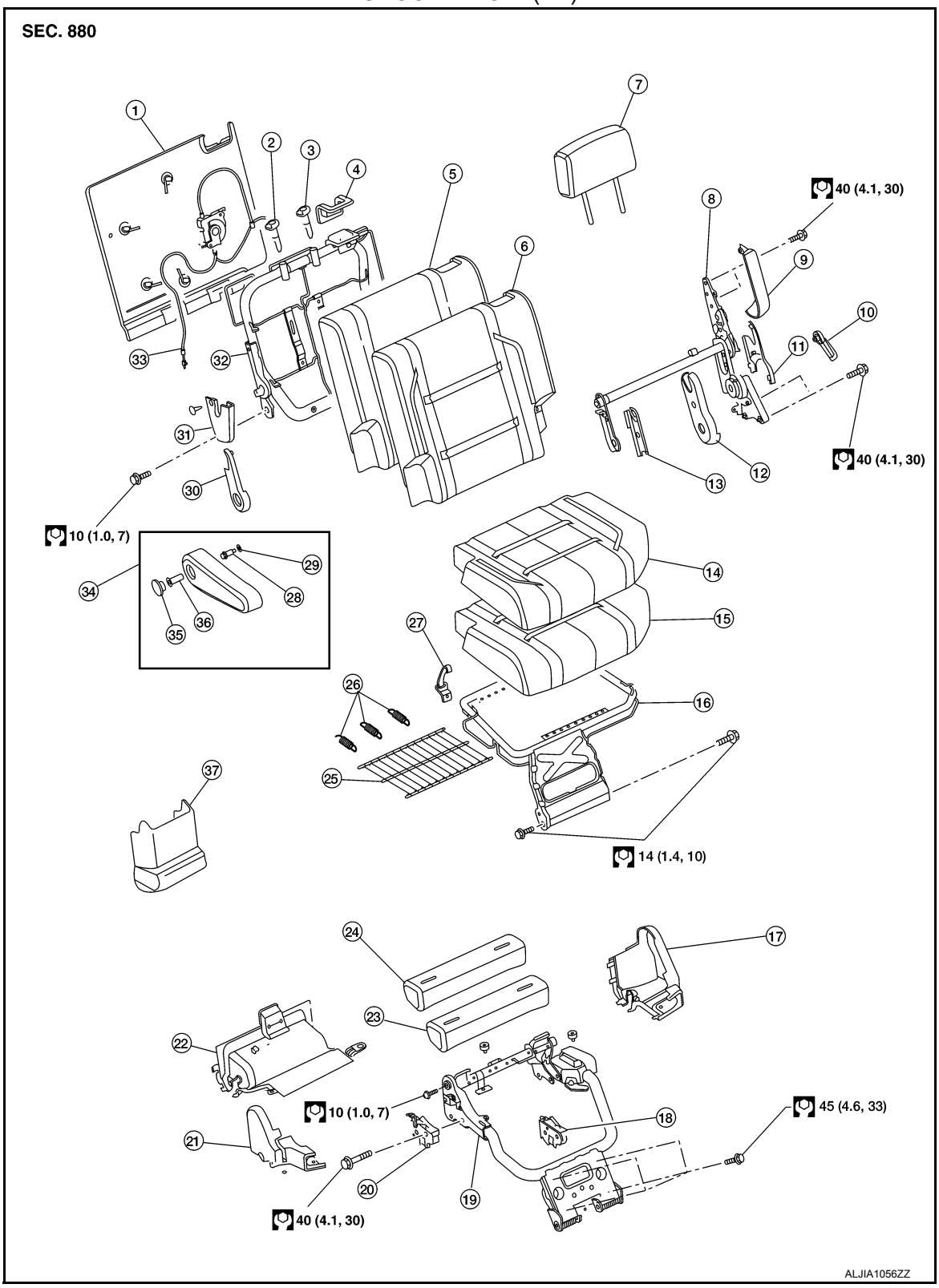
SECOND ROW (RH)



1. Headrest
2. Seatback pad
3. Seatback frame
4. Latch lever finisher
5. Headrest holder (free)
6. Headrest holder (locked)

7. Seatback board
8. Latch release assembly
9. Upper recline mechanism cover (LH)
10. Lower recline mechanism outer cover (LH)
11. Armrest pivot bolt
12. Armrest pivot bolt finisher
13. Armrest assembly
14. Seat cushion latch assembly
15. Seat cushion support spring
16. Seat cushion support
17. Seat cushion frame
18. Seat support trim
19. Seat support pad
20. Lower seat finisher (rear)
21. Recline mechanism finisher (LH)
22. Seat frame latch assembly
23. Seat frame assembly
24. Recline mechanism finisher (RH)
25. Seat cushion pad
26. Lower recline mechanism inner cover (LH)
27. Lower recline mechanism inner cover (RH)
28. Recline mechanism assembly
29. Lower recline mechanism outer cover (RH)
30. Recline lever
31. Upper recline mechanism cover (RH)
32. Seatback trim
33. Seat cushion trim
34. Seat hinge finisher
35. Armrest insert
36. Armrest washer

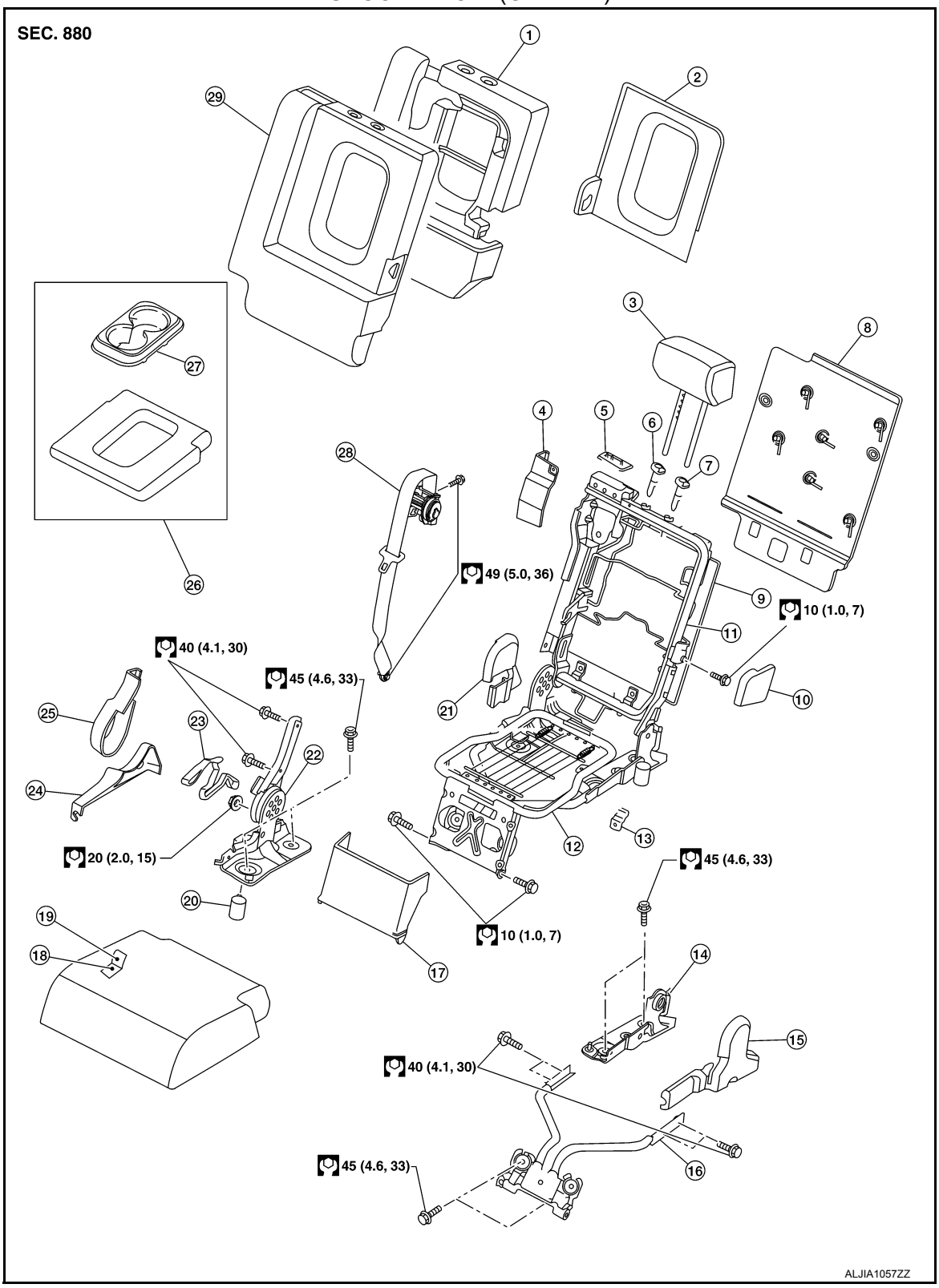
SECOND ROW (LH)



1. Seatback board
2. Headrest holder (free)
3. Headrest holder (locked)
4. Latch lever finisher
5. Seatback pad
6. Seatback trim
7. Headrest
8. Recline mechanism assembly
9. Upper recline mechanism cover (LH)
10. Recline lever
11. Lower recline mechanism outer cover (LH)
12. Lower recline mechanism inner cover (LH)
13. Lower recline mechanism inner cover (RH)
14. Seat cushion trim
15. Seat cushion pad

16. Seat cushion frame
17. Recline mechanism finisher (LH)
18. Seat frame latch assembly
19. Seat frame assembly
20. Seat frame latch assembly
21. Recline mechanism finisher (RH)
22. Lower seat finisher (rear)
23. Seat support pad
24. Seat support trim
25. Seat cushion support
26. Seat cushion support spring
27. Seat cushion latch assembly
28. Armrest insert
29. Armrest washer
30. Lower recline mechanism outer cover (RH)
31. Upper recline mechanism cover (RH)
32. Seatback frame
33. Latch release assembly
34. Armrest assembly
35. Armrest pivot bolt finisher
36. Armrest pivot bolt
37. Seat hinge finisher

SECOND ROW (CENTER)



1. Seatback pad
2. Armrest finisher
3. Headrest
4. Seat belt retractor cover
5. Seat belt retractor finisher
6. Headrest holder (free)
7. Headrest holder (locked)
8. Seatback board
9. Seatback silencer
10. Armrest bracket finisher
11. Seatback frame assembly
12. Seat cushion frame assembly
13. Seat cushion latch assembly
14. Seatback hinge support bracket (LH)
15. Seat frame finisher (LH)
16. Seat base bracket
17. Seat base bracket finisher
18. Seat cushion pad

19. Seat cushion trim
20. Cushion stop bumper
21. Inner latch cover (RH)
22. Seatback hinge assembly (RH)
23. Seat lever
24. Seatback frame finisher (RH)
25. Seatback hinge finisher (RH)
26. Armrest assembly
27. Cup holder
28. Seat belt retractor assembly
29. Seatback trim

THIRD SEAT

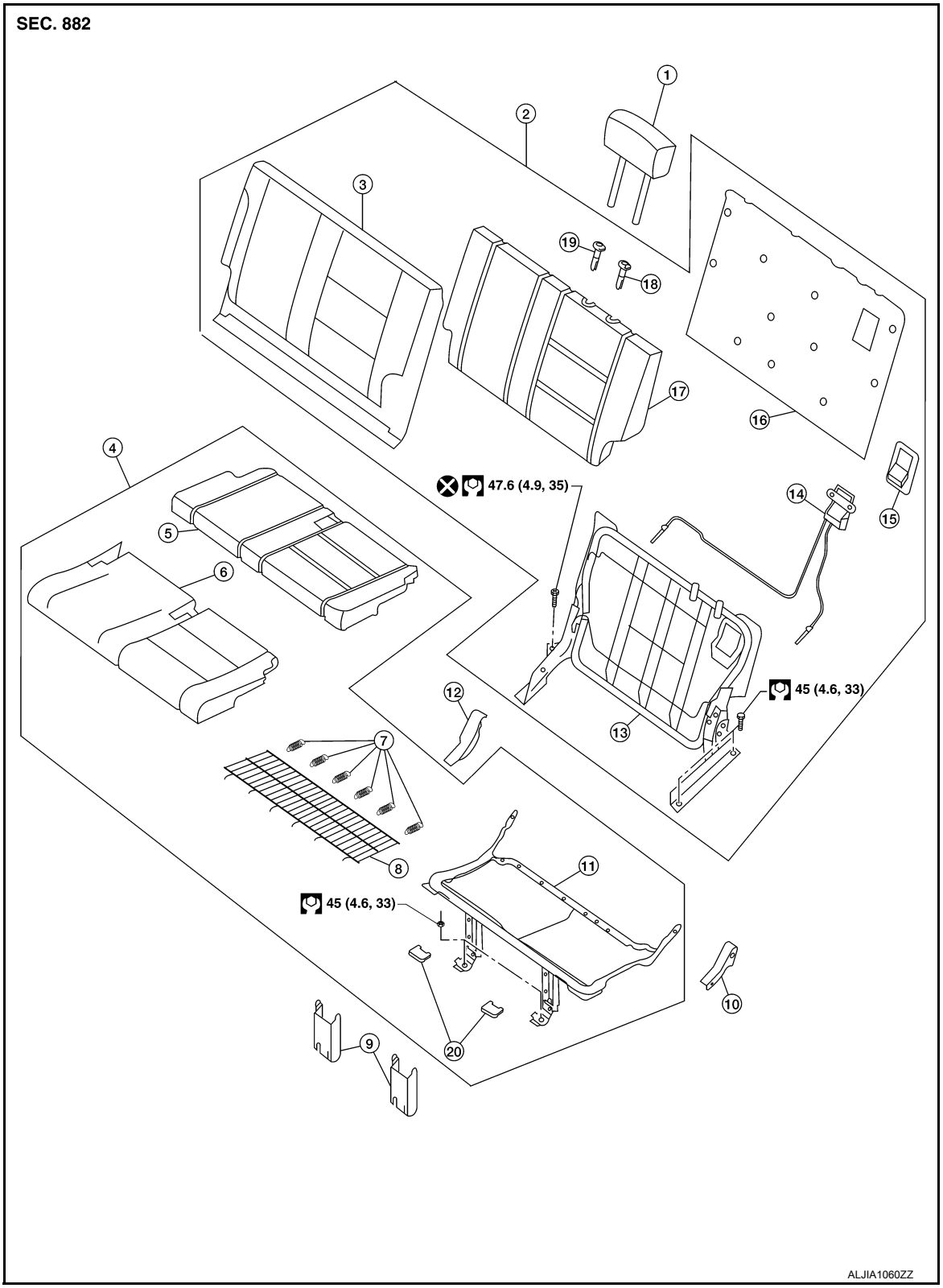
Without Power Folding

INFOID:0000000009823537

Exploded View

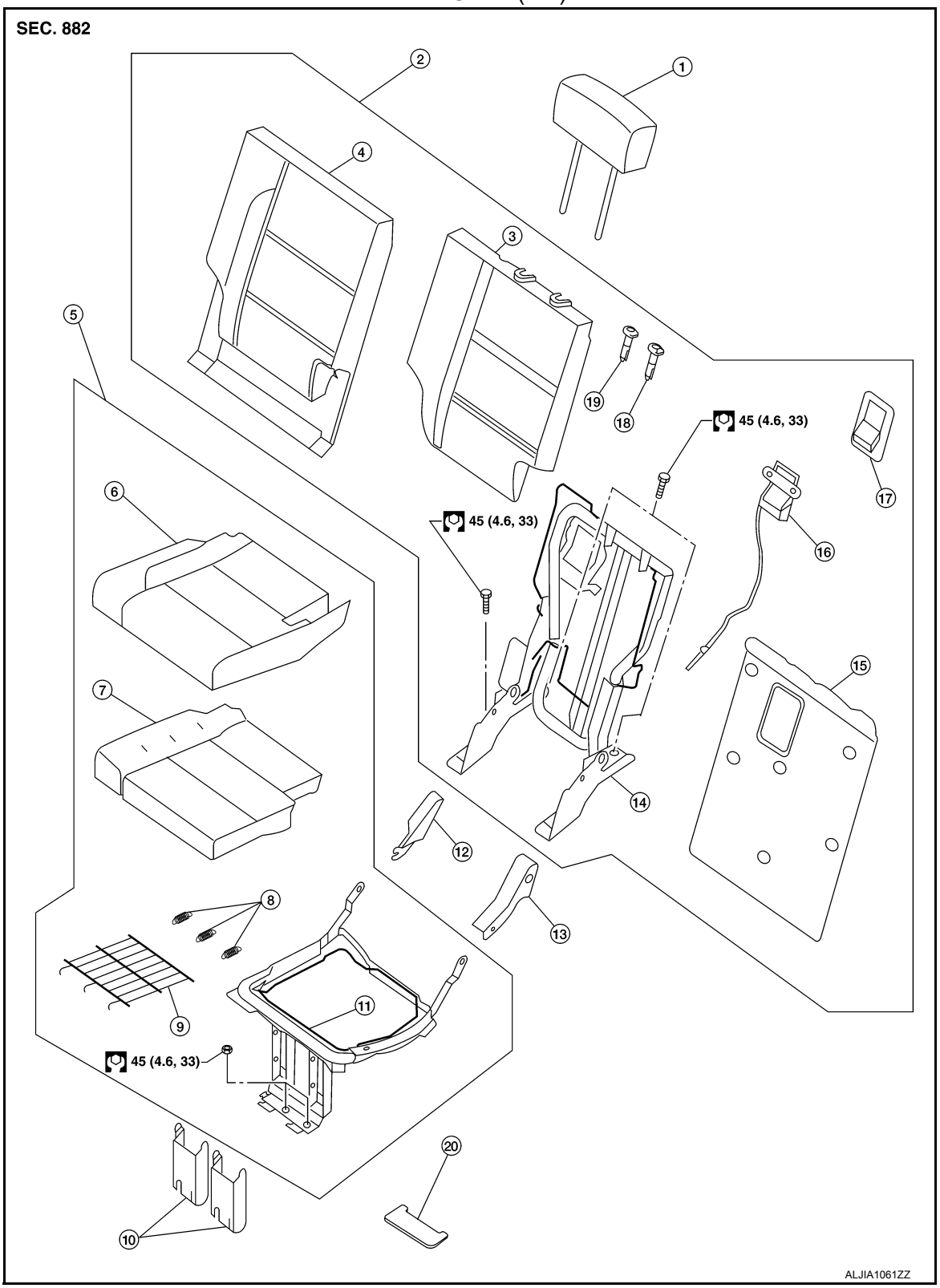
INFOID:0000000009823538

THIRD SEAT (LH)



1. Headrest
2. Seatback assembly
3. Seatback trim
4. Seat cushion assembly
5. Seat cushion pad
6. Seat cushion trim
7. Seat cushion support spring
8. Seat cushion support
9. Seat cushion frame lower finisher
10. Hinge finisher (LH)
11. Seat cushion frame
12. Hinge finisher (RH)
13. Seatback frame assembly
14. Seatback release assembly
15. Seatback release finisher
16. Seatback board
17. Seatback pad
18. Headrest holder (locked)
19. Headrest holder (free)
20. Seat nut finisher

THIRD SEAT (RH)



1. Headrest
2. Seatback assembly
3. Seatback pad
4. Seatback trim
5. Seat cushion assembly
6. Seat cushion trim
7. Seat cushion pad
8. Seat cushion support spring
9. Seat cushion support
10. Seat cushion frame lower finisher
11. Seat cushion frame
12. Hinge finisher (RH)
13. Hinge finisher (LH)
14. Seatback frame assembly
15. Seatback board

16. Seatback release assembly
17. Seatback release finisher
18. Headrest holder (locked)
19. Headrest holder (free)
20. Seat nut finisher

Third Seat

INFOID:0000000009823539

DISASSEMBLY AND ASSEMBLY

CAUTION:

Discard the seat belt buckle bolt and use a new bolt for installation.

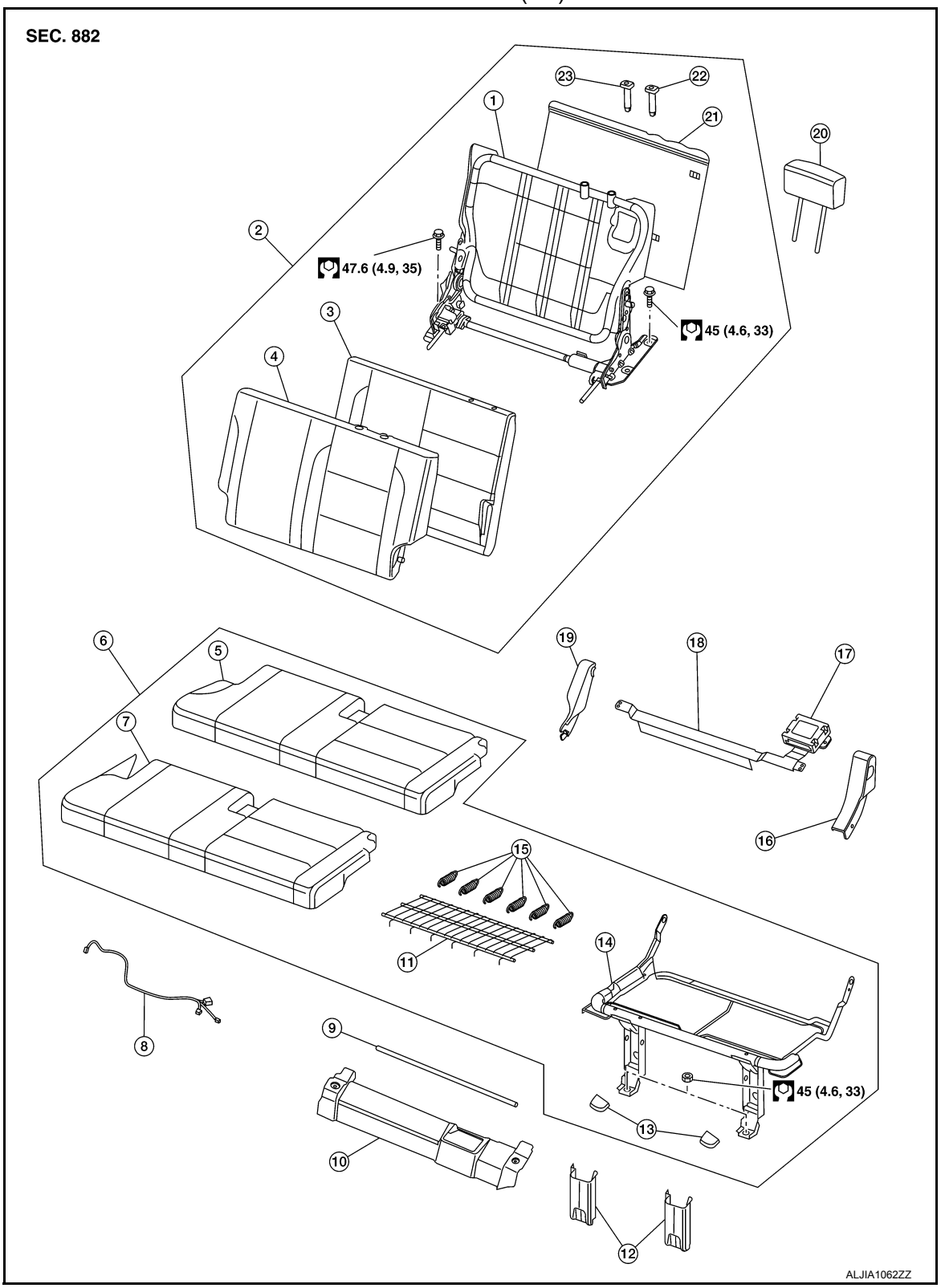
With Power Folding

INFOID:0000000009823540

Exploded View

INFOID:0000000009823541

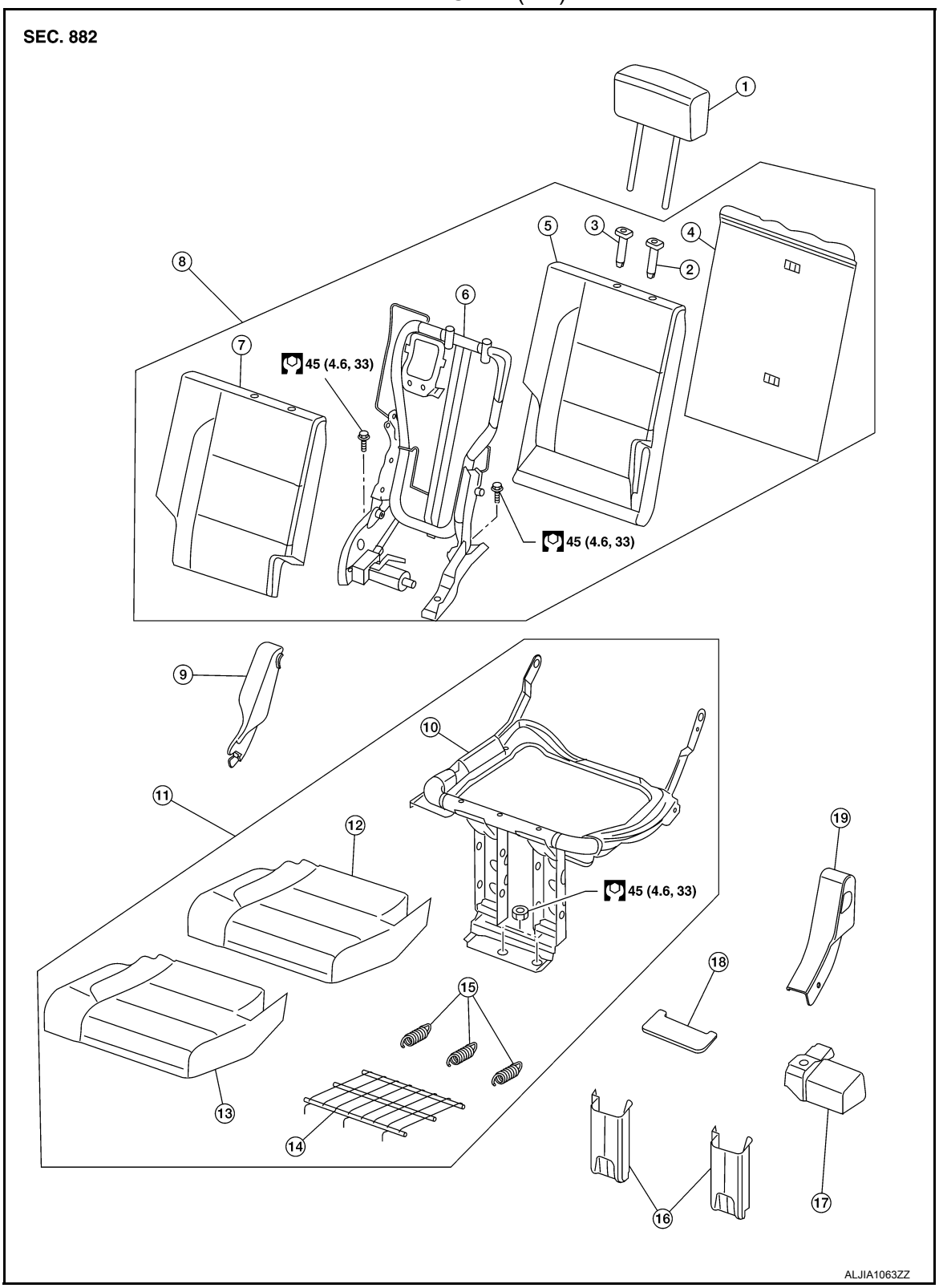
THIRD SEAT (LH)



1. Seatback frame assembly
2. Seatback assembly
3. Seatback pad
4. Seatback trim
5. Seat cushion pad
6. Seat cushion assembly

7. Seat cushion trim
8. Seat harness
9. Power seat cable
10. Seat motor cover
11. Seat cushion support
12. Seat cushion frame lower finisher
13. Seat nut finisher
14. Seat cushion frame
15. Seat cushion support spring
16. Hinge finisher (LH)
17. Seat control unit
18. Power seat cross beam
19. Hinge finisher (RH)
20. Headrest
21. Seatback board
22. Headrest holder (locked)
23. Headrest holder (free)

THIRD SEAT (RH)



1. Headrest
2. Headrest holder (locked)
3. Headrest holder (free)
4. Seatback board
5. Seatback pad
6. Seatback frame assembly
7. Seatback trim
8. Seatback assembly
9. Hinge finisher (RH)
10. Seat cushion frame
11. Seat cushion assembly
12. Seat cushion pad
13. Seat cushion trim
14. Seat cushion support
15. Seat cushion support spring
16. Seat cushion frame lower finisher
17. Seat motor cover
18. Seat nut finisher
19. Hinge finisher (LH)

Third Seat

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DISASSEMBLY AND ASSEMBLY

CAUTION:

Discard the seat belt buckle bolt and use a new bolt for installation.