SECTION MIR
MIRRORS

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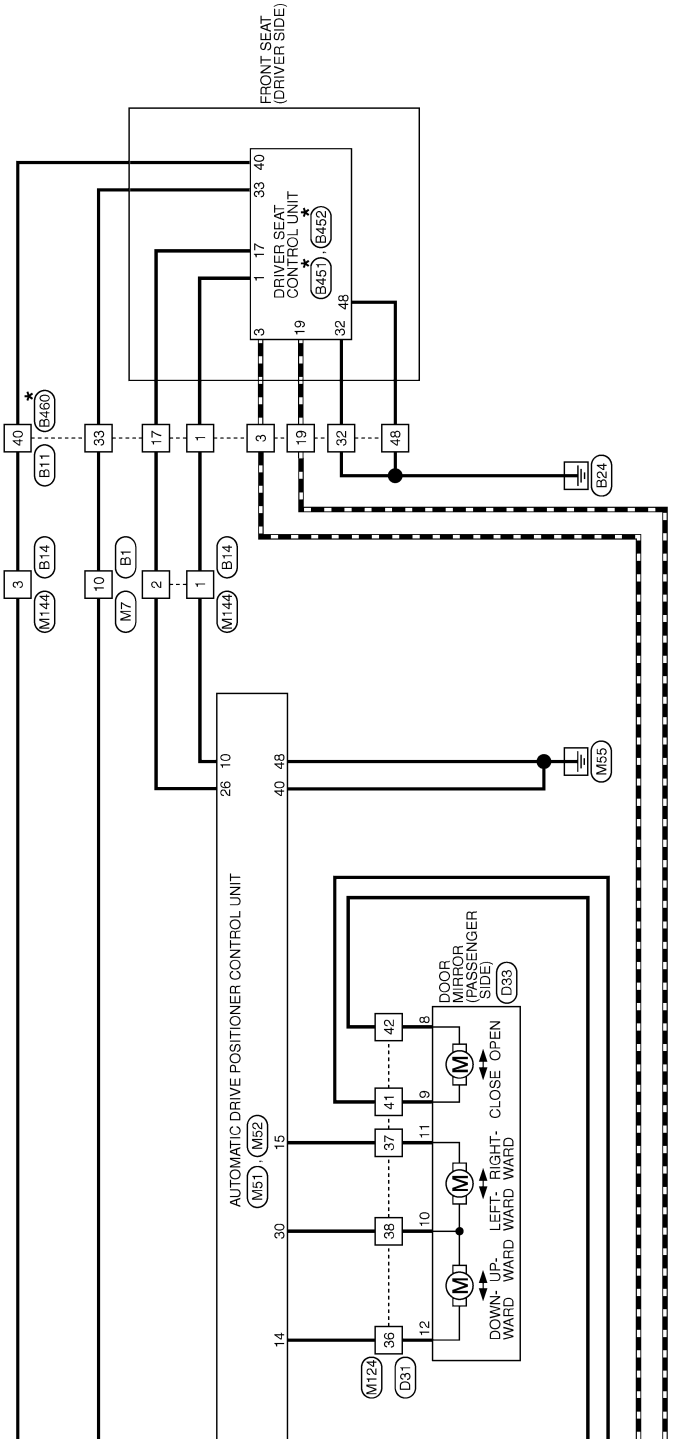

*: This connector is not shown in "Harness Layout".

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DOOR MIRROR (WITH AUTOMATIC DRIVE POSITIONER)

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	–
2	L	–
3	W	–
5	G	–
6	G	–
7	P	–
8	O	–
9	W	–
10	SB	–
11	SB	–
12	B	–
13	G	–
14	R	–
15	W	–
16	SHIELD	–
17	L	–
18	P	–
19	G	–
20	Y	–
21	W	–
23	V	–
24	P	–
25	BR	–
26	GR	–
27	O	–
28	W	–
29	SHIELD	–
38	B	–
39	B	–
40	LG	–
41	G	–
42	GR	–
43	SB	–
44	V	–
45	GR	–
50	B	–
51	V	–
52	SB	–
53	SHIELD	–
54	BR	–
55	Y	–
56	SHIELD	–
57	P	–
58	L	–
59	SHIELD	–
60	L	–
61	P	–
62	GR	–
63	G	–
64	O	–
65	W	–
66	V	–
67	LG	–
68	Y	–
69	G	–
70	GR	–
71	G	–
72	B	–
73	W	–
74	V	–
75	O	–
76	LG	–
77	L	–
78	GR	–
79	W	–
80	L	–
81	P	–
82	L	–
83	P	–
84	SB	–
85	R	–
86	Y	–
87	B	–
88	G	–
89	BR	–
90	W	–
91	R	–
92	O	–
93	BR	–
94	V	–
95	Y	–
96	O	–
97	W	–
98	GR	–
99	W	–

Connector No.	B11
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	–
3	L	–
17	LG	–
19	P	–
21	Y	–
32	B	–
33	SB	–
40	R	–
48	B	–

Connector No.	B14
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	–
2	LG	–
3	R	–
5	W	–
6	R	–
7	Y	–
11	SHIELD	–
12	W	– [With around view monitor]
12	B	– [Without around view monitor]

Connector No.	B451
Connector Name	DRIVER SEAT CONTROL UNIT
Connector Type	TH32FW

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	L/W	RX
3	R/Y	CAN-H
9	W/G	PULSE (RECLINING)
10	P/B	PULSE (RR LIFTING)
11	BR	SLIDING SW (BACKWARD)
12	SB	RECLINING SW (BACKWARD)
13	LG/R	FRONT LIFTING SW (DOWNWARD)
14	G/B	REAR LIFTING SW (DOWNWARD)
16	O	VCC
17	Y/R	TX
19	V	CAN-L
21	L/Y	P RANGE SW
24	R	PULSE (SLIDING)
25	Y/B	PULSE (FR LIFTING)
26	Y	SLIDING SW (FORWARD)
27	R/G	RECLINING SW (FORWARD)
28	W/B	FRONT LIFTING SW (UPWARD)
29	P/L	REAR LIFTING SW (UPWARD)
31	GR	SENSOR GND
32	B/W	GND (SIGNAL)

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DOOR MIRROR (WITH AUTOMATIC DRIVE POSITIONER)

Connector No.	B452
Connector Name	DRIVER SEAT CONTROL UNIT
Connector Type	NS16FW-CS

H.S.

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

Terminal No.	Color of Wire	Signal Name [Specification]
33	R	BAT (C/B)
35	W/R	SLIDING MOTOR (FORWARD)
36	G/Y	RECLINING MOTOR (FORWARD)
37	G/W	FRONT LIFTING MOTOR (DOWNWARD)
38	L/Y	REAR LIFTING MOTOR (UPWARD)
39	R/B	REAR LIFTING MOTOR (DOWNWARD)
40	R/W	BAT (FUSE)
42	W/B	SLIDING MOTOR (BACKWARD)
44	P	RECLINING MOTOR (BACKWARD)
45	L/R	FRONT LIFTING MOTOR (UPWARD)
48	B	GND (POWER)

Connector No.	B460
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-LC

H.S.

19	3	1			17		40	59
	20			32	48	21	33	60

Terminal No.	Color of Wire	Signal Name [Specification]
1	L/W	–
3	R/Y	–
17	Y/R	–
19	V	–
21	L/Y	–
32	B/W	–
33	R	–
40	R/W	–
48	B	–

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15

H.S.

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
49	48	47	46	45	44	43	42	41	40	39	38	37	36	35
34	33	32	31	30	29	28	27	26	25	24	23	22	21	20

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	–
3	G	–
6	GR	–
7	W	–
8	SB	–
9	BR	–
10	O	–
11	R	–
12	LG	–
13	Y	–
14	P	–
15	L	–
20	V	–
21	Y	–
22	GR	–
23	SB	–
24	LG	–
26	G	–
27	V	–
28	P	–
29	Y	–
30	LG	–
31	O	–
32	BR	–
33	L	–
34	GR	–
35	B	–
38	SHIELD	–
39	W	–
40	BR	–
41	L	–
42	Y	–
43	R	–
44	BR	–
45	V	–
46	P	–
47	W	–
48	GR	–

49	R	–
50	B	–
51	SB	–
52	L	–
53	G	–
54	O	–
55	GR	–

Connector No.	D3
Connector Name	DOOR MIRROR (DRIVER SIDE)
Connector Type	TH24MW-NH

H.S.

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

Terminal No.	Color of Wire	Signal Name [Specification]
2	R	–
3	W	SIDE CAMERA LH COMM
5	Y	SIDE CAMERA LH IMAGE SIGNAL
6	R	SIDE CAMERA LH POWER SUPPLY
7	GR	–
8	SB	–
9	L	–
10	G	–
11	GR	–
12	O	–
14	B	–
17	L	SIDE CAMERA LH IMAGE GND
18	BR	SIDE CAMERA LH GND
19	B	–
21	P	–
22	BR	–
23	W	–
24	V	–

Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15

H.S.

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
49	48	47	46	45	44	43	42	41	40	39	38	37	36	35
34	33	32	31	30	29	28	27	26	25	24	23	22	21	20

Terminal No.	Color of Wire	Signal Name [Specification]
3	P	–
4	L	–
5	W	–
6	P	–
7	G	–
8	R	–
9	LG	–
13	B	–
14	V	–
15	Y	–
19	G	–
20	LG	–
21	SHIELD	–
22	W	–
23	BR	–
24	L	–
25	Y	–
26	R	–
31	LG	–
32	R	–
33	SB	–
34	Y	–
35	GR	–
36	O	–
37	GR	–
38	G	–
39	O	–
40	Y	–
41	L	–
42	O	–
43	BR	–
44	V	–
45	P	–
46	W	–

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DOOR MIRROR (WITH AUTOMATIC DRIVE POSITIONER)

Connector No.	D33
Connector Name	DOOR MIRROR (PASSENGER SIDE)
Connector Type	TH24MW-NH

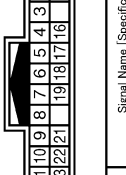
H.S.

12	11	10	9	8	7	6	5	4	3	2	
24	23	22	21		19	18	17	16			14

Terminal No.	Color of Wire	Signal Name [Specification]
2	Y	–
3	W	SIDE CAMERA RH COMM
4	LG	SIDE CAMERA RH IMAGE SIGNAL
5	Y	SIDE CAMERA RH POWER SUPPLY
6	R	–
7	LG	–
8	O	–
9	L	–
10	G	–
11	GR	–
12	O	–
14	O	–
16	G	–
17	L	SIDE CAMERA RH IMAGE GND
18	BR	SIDE CAMERA RH GND
19	B	–
21	P	–
22	BR	–
23	W	–
24	V	–

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

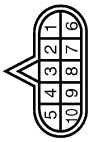
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	–
2	O	–
3	SB	–
4	LG	–
5	Y	–
6	W	–
7	G	–
8	V	–
9	R	–
10	BR	–
11	B	–
12	G	–
13	R	–
14	W	–
15	SHIELD	–
16	SB	–
17	L	–
18	P	–
19	G	–
20	Y	– [Without ICC]
21	BR	–
22	R	– [With ICC]
22	V	– [Without ICC]
23	G	–
24	L	– [With ICC]
24	P	– [Without ICC]
25	Y	– [With ICC]
25	L	– [Without ICC]
26	SHIELD	–
28	G	–
29	LG	–
30	O	–
31	BR	–
32	W	–
33	Y	–
34	O	–
35	SB	–
36	P	–
37	Y	–
38	GR	–
39	LG	–
41	LG	–
42	V	–
43	R	–
44	G	–
45	GR	–
46	W	–
47	L	–
48	P	–
49	SB	–
50	BR	–
51	B	–
52	Y	–
53	O	–
54	R	–
55	SB	–
56	P	–
59	P	–
60	SB	–
61	V	–
62	P	–
63	LG	–
64	L	–
65	O	–
66	L	–
69	L	–
70	SHIELD	–
71	G	–
72	G	–
73	R	–
74	BR	–
76	L	–
77	W	–
78	Y	–
80	SB	–
81	L	–
82	W	–
83	LG	–
84	GR	–
85	G	–
86	P	–
87	W	–
88	O	–
89	LG	–
90	BR	–
91	GR	–
92	BR	–
93	SB	–
94	W	–
95	Y	–
96	W	–
100	Y	–

Connector No.	F51
Connector Name	A/T ASSEMBLY
Connector Type	RK10FG-DGY

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	–
2	R	– [With VK engine]
2	BR	– [With VQ engine]
3	L	–
4	V	–
5	B	–
6	Y	–
7	R	–
8	P	–
9	LG	– [With VK engine]
9	GR	– [With VQ engine]
10	B	–

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DOOR MIRROR (WITH AUTOMATIC DRIVE POSITIONER)

Connector No.	F103
Connector Name	WIRE TO WIRE
Connector Type	TK36FW-NS10

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	SHIELD	–
2	G	–
3	W	–
4	GR	– [With VK engine]
4	R	– [With VQ engine]
5	R	– [With VK engine]
5	B	– [With VQ engine]
6	SHIELD	–
7	B	–
9	W	– [With VK engine]
9	Y	– [With VQ engine]
10	L	– [With VK engine]
10	GR	– [With VQ engine]
17	GR	–
18	R	–
19	O	–
20	Y	–
26	BR	–
27	L	–
28	B	–
29	LG	–
31	R	–
34	LG	–
35	BR	–
36	W	–
37	Y	–
38	Y	–
43	P	–
44	L	–
45	Y	–
46	V	–

Connector No.	F151
Connector Name	TCM (TRANSMISSION CONTROL MODULE)
Connector Type	SP10FG

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	VIGN
2	B	BATT
3	R	CAN-H
4	O	K LINE
5	G	GND
6	GR	VIGN
7	L	REV LAMP RLY
8	BR	CAN-L
9	Y	START RLY
10	W/B	GND

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS06FW-M2

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1A	O	–
2A	G	–
3A	L	–
4A	P	–
5A	V	–
6A	Y	–
7A	R	–
8A	L	–

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	–
3	SB	–
6	R	–
7	W	–
8	G	–
9	L	–
10	O	–
11	G	–
12	V	–
13	Y	–
14	P	–
15	L	–
20	O	–
21	LG	–
22	V	–
23	Y	–
24	P	–
26	SB	–
27	V	–
28	LG	–
29	R	–
30	P	–
31	O	–
32	SB	–
33	L	–
34	R	–
35	B	–
38	SHIELD	–
39	W	–
40	B	–
41	G	–
42	Y	–
43	R	–
44	G	–
45	Y	–
46	GR	–
47	W	–
48	L	–
49	R	–
50	O	–
51	SB	–
52	R	–
53	Y	–
54	LG	–
55	L	–

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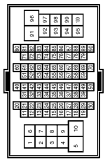
DOOR MIRROR (WITH AUTOMATIC DRIVE POSITIONER)

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	–
2	O	–
3	SB	–
4	LG	–
5	GR	–
6	W	–
7	G	–
8	W	–
9	P	–
10	BR	–
11	B	–
12	G	–
13	R	–
14	W	–
15	SHIELD	–
16	BR	–
17	L	–
18	P	–
19	G	–
20	W	– [With ICC]
20	GR	– [Without ICC]
21	BR	– [With ICC]
21	R	– [Without ICC]
22	R	– [With IGC]
22	L	– [Without ICC]
23	G	–
24	L	– [With ICC]
24	P	– [Without ICC]
25	Y	– [With IGC]
25	W	– [Without ICC]
26	SHIELD	–
28	GR	–
29	V	–
30	O	–
31	BR	–
32	W	–
33	Y	–
34	L	–
35	L	–
36	P	–
37	G	–
38	R	–
39	G	–
41	L	–
42	W	–
43	R	–
44	LG	–
45	GR	–
46	W	–
47	L	–
48	P	–
49	O	–
50	LG	–
51	SB	–
52	Y	–
53	O	–
54	BR	–
55	SB	–
56	P	–
59	SB	–
60	SB	–
61	V	–
62	P	–
63	R	–
64	L	–
65	O	–
66	L	–
69	V	–
70	SHIELD	–
71	O	–
72	GR	–
73	W	–
74	SB	–
76	V	–
77	V	–
78	Y	–
80	O	–
81	L	–
82	W	–
83	Y	–
84	L	–
85	P	–
86	BR	–
87	P	–
88	V	–
89	G	–
90	P	–
91	R	–
92	R	–
93	GR	–
94	L	–
95	G	–
96	W	–
100	Y	–

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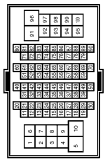
DOOR MIRROR (WITH AUTOMATIC DRIVE POSITIONER)

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

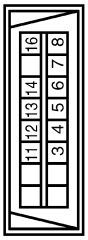
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	–
2	B	–
3	W	–
5	G	–
6	P	–
7	V	–
8	O	–
9	W	–
10	W	–
11	O	–
12	B	–
13	G	–
14	R	–
15	W	–
16	SHIELD	–
17	L	–
18	P	–
19	G	–
20	R	–
21	LG	–
23	V	–
24	P	–
25	BR	–
26	GR	–
27	O	–
28	W	–
29	SHIELD	–
38	B	–
39	B	–
40	LG	–
41	G	–
42	Y	–
43	SB	–
44	W	–
45	B	–
50	B	–
51	V	–
52	LG	–
53	SHIELD	–
54	BR	–
55	Y	–
56	SHIELD	–
57	P	–
58	L	–
59	SHIELD	–
60	L	–
61	BR	–
62	R	–
63	Y	–
64	L	–
65	W	–
66	V	–
67	LG	–
68	Y	–
69	G	–
70	V	–
71	W	–
72	B	–
73	W	–
74	LG	–
75	P	–
76	LG	–
77	SB	–
78	GR	–
79	R	–
80	L	–
81	P	–
82	L	–
83	P	–
84	SB	–
85	W	–
86	Y	–
87	B	–
88	G	–
89	O	–
90	W	–
91	R	–
92	O	–
93	BR	–
94	V	–
95	Y	–
96	O	–
97	W	–
98	R	–
99	G	– [With VK engine]
99	O	– [With VQ engine]

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	LG	–
4	B	–
5	B	–
6	L	–
7	GR	–
8	G	–
11	SB	–
12	P	–
13	L	–
14	P	–
16	O	–

Connector No.	M26
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH
Connector Type	TK16FBR

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
2	P	–
3	LG	–
4	BR	–
5	V	–
6	G	–
8	SB	–
9	LG	–
10	R	–
11	P	–
12	G	–
13	B	–
14	SB	–
15	O	–
16	W	–

Connector No.	M42
Connector Name	DIODE
Connector Type	ET02-2W

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
2	G	–

JCLWA3786GB

DOOR MIRROR (WITH AUTOMATIC DRIVE POSITIONER)

Connector No.	M51
Connector Name	AUTOMATIC DRIVE POSITIONER CONTROL UNIT
Connector Type	TH32FW-NH

H.S.

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

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	TILT SW (UPWARD)
2	LG	MIRROR SELECT SW (RH)
3	G	MIRROR SW (UPWARD)
4	V	MIRROR SW (LEFTWARD)
5	R	MIRROR SENSOR (RH VERTICAL)
6	GR	MIRROR SENSOR (LH VERTICAL)
7	LG	TILT SENSOR
9	L	ADDRESS1
10	V	TX (UART)
11	SB	TELESCOPIC SW (FRONTWARD)
12	O	IND1
13	P	IND2
14	O	MIRROR MOTOR (RH VERTICAL)
15	GR	MIRROR MOTOR (RH HORIZONTAL)
16	Y	MIRROR MOTOR (LH COMMON)
17	W	TILT SW (DOWNWARD)
18	P	MIRROR SELECT SW (LH)
19	SB	MIRROR SW (DOWNWARD)
20	BR	MIRROR SW (RIGHTWARD)
21	L	MIRROR SENSOR (RH HORIZONTAL)
22	G	MIRROR SENSOR (LH HORIZONTAL)
23	P	TELESCOPIC SENSOR
24	R	SET SW
25	SB	ADDRESS2
26	Y	RX (UART)
27	G	TELESCOPIC SW (BACKWARD)
30	R	MIRROR MOTOR (RH COMMON)
31	LG	MIRROR MOTOR (LH VERTICAL)
32	L	MIRROR MOTOR (LH HORIZONTAL)

Connector No.	M52
Connector Name	AUTOMATIC DRIVE POSITIONER CONTROL UNIT
Connector Type	NS16FW-CS

H.S.

33	34	35	36				39
40	41	42		44			48

Terminal No.	Color of Wire	Signal Name [Specification]
33	W	POWER SUPPLY (SENSOR)
34	R	BAT (FUSE)
35	L	TILT MOTOR (UPWARD)
36	GR	TELESCOPIC MOTOR (FORWARD)
39	W	BAT (C/B)
40	B	GND (SIGNAL)
41	Y	GND (SENSOR)
42	O	TILT MOTOR (DOWNWARD)
44	G	TELESCOPIC MOTOR (BACKWARD)
48	B	GND (POWER)

Connector No.	M62
Connector Name	CIRCUIT BREAKER
Connector Type	M02FW-P-LC

H.S.

1
2

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–
2	W	–

Connector No.	M116
Connector Name	WIRE TO WIRE
Connector Type	TK36MW-NS10

H.S.

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

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	–
2	W	–
3	L	–
4	B	– [With VK engine]
4	R	– [With VQ engine]
5	R	– [With VK engine]
5	B	– [With VQ engine]
6	B	–
7	B	–
9	L	– [With VK engine]
9	R	– [With VQ engine]
10	R	–
17	LG	–
18	R	–
19	O	–
20	Y	–
26	V	–
27	L	–
28	B	–
29	LG	–
31	W	–
34	LG	–
35	BR	–
36	W	–
37	Y	–
38	O	–
43	P	–
44	L	–
45	G	–
46	Y	–

Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	M03FB-LC

H.S.

1	3
2	

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	BAT (F/L)
2	Y	POWER WINDOW POWER SUPPLY (BAT)
3	O	POWER WINDOW POWER SUPPLY (RAP)

Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FW-CS

H.S.

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

Terminal No.	Color of Wire	Signal Name [Specification]
4	P	INT ROOM LAMP PWR SUPPLY (BAT SAVE)
5	V	PASSENGER DOOR UNLOCK OUTPUT
7	Y	STEP LAMP OUTPUT
8	V	ALL DOOR, FUEL LID LOCK OUTPUT
9	G	DRIVER DOOR, FUEL LID UNLOCK OUTPUT
10	BR	REAR DOOR UNLOCK OUTPUT
11	R	BAT (FUSE)
13	B	GND
15	Y	ACC IND
17	W	TURN SIGNAL RH (FRONT)
18	O	TURN SIGNAL LH (FRONT)
19	SB	ROOM LAMP TIMER

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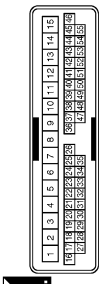
DOOR MIRROR (WITH AUTOMATIC DRIVE POSITIONER)

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH

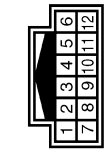
Terminal No.	Color of Wire	Signal Name [Specification]
72	R	ROOM ANT2-
73	G	ROOM ANT2+
74	SB	PASSENGER DOOR ANT-
75	BR	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT-
77	LG	DRIVER DOOR ANT+
78	Y	ROOM ANT1-
79	BR	ROOM ANT1+
80	GR	NATS ANT AMP.
81	W	NATS ANT AMP.
82	P	IGN RELAY (F/B) CONT
83	GR	KEYLESS ENTRY RECEIVER SIGNAL
87	BR	COMBI SW INPUT 5
88	V	COMBI SW INPUT 3
89	SB	PUSH SW
90	P	CAN-L
91	L	CAN-H
92	LG	KEY SLOT ILL
93	V	ON IND
95	O	ACC RELAY CONT
96	GR	A/T SHIFT SELECTOR POWER SUPPLY
97	L	S/L CONDITION 1
98	P	S/L CONDITION 2
99	R	SHIFT P
100	G	PASSENGER DOOR REQUEST SW
101	SB	DRIVER DOOR REQUEST SW
102	O	BLOWER FAN MOTOR RELAY CONT
103	BR	KEYLESS ENTRY RECEIVER POWER SUPPLY
106	W	S/L UNIT POWER SUPPLY
107	LG	COMBI SW INPUT 1
108	R	COMBI SW INPUT 4
109	Y	COMBI SW INPUT 2
110	G	HAZARD SW
111	GR	S/L UNIT COMM

Connector No.	M124
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
3	Y	–
4	LG	–
5	SB	–
6	BR	–
7	G	–
8	V	–
9	LG	–
13	B	–
14	O	–
15	Y	–
19	G	–
20	LG	–
21	SHIELD	–
22	W	–
23	B	–
24	G	–
25	Y	–
26	R	–
31	O	–
32	Y	–
33	LG	–
34	SB	–
35	V	–
36	O	–
37	GR	–
38	R	– [With automatic drive positioner]
38	G	– [Without automatic drive positioner]
39	B	–
40	R	–
41	P	–
42	LG	–
43	L	–
44	Y	–
45	R	–
46	W	–

Connector No.	M144
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
2	Y	–
3	R	–
5	W	–
6	R	–
7	Y	–
11	SHIELD	–
12	W	– [With around view monitor]
12	B	– [Without around view monitor]

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ECU DIAGNOSIS INFORMATION

DRIVER SEAT CONTROL UNIT

Reference Value

INFOID:0000000005236543

VALUES ON THE DIAGNOSIS TOOL

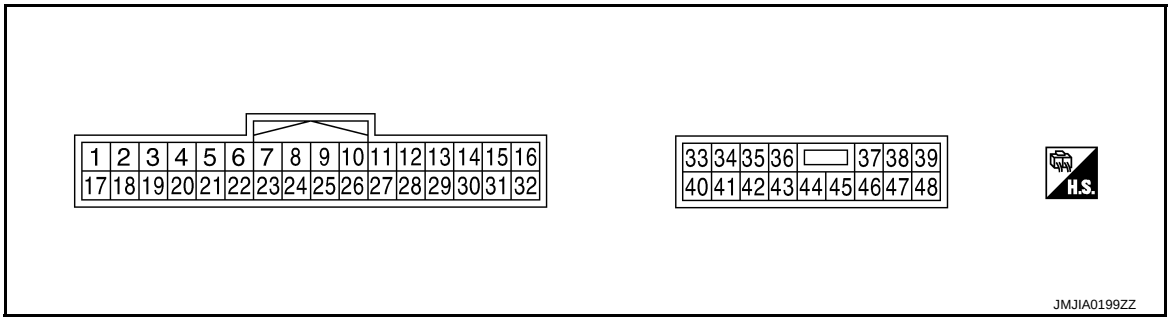
CONSULT-III MONITOR ITEM

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

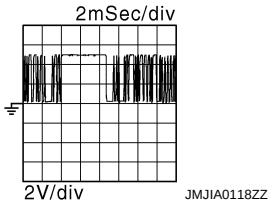
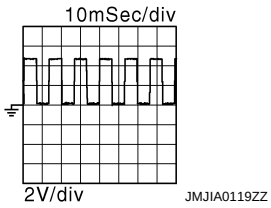
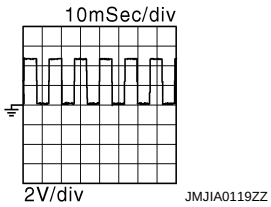
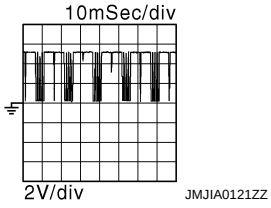
Monitor Item	Condition		Value/Status
TELESCO SW-FR	Telescopic switch	Forward	ON
		Other than above	OFF
TELESCO SW-RR	Tilt switch	Backward	ON
		Other than above	OFF
DETENT SW	AT selector lever	P position	OFF
		Other than above	ON
STARTER SW	Ignition position	Cranking	ON
		Other than above	OFF
SLIDE PULSE	Seat sliding	Forward	The numeral value decreases *1
		Backward	The numeral value increases *1
		Other than above	No change to numeral value*1
RECLN PULSE	Seat reclining	Forward	The numeral value decreases *1
		Backward	The numeral value increases *1
		Other than above	No change to numeral value*1
LIFT FR PULSE	Seat lifter (front)	Up	The numeral value decreases *1
		Down	The numeral value increases *1
		Other than above	No change to numeral value*1
LIFT RR PULSE	Seat lifter (rear)	Up	The numeral value decreases *1
		Down	The numeral value increases *1
		Other than above	No change to numeral value*1
MIR/SEN RH U–D	Door mirror (passenger side)		Change between 3.4 (close to peak) 0.6 (close to valley)
MIR/SEN RH R–L	Door mirror (passenger side)		Change between 3.4 (close to left edge) 0.6 (close to right edge)
MIR/SEN LH U–D	Door mirror (driver side)		Change between 3.4 (close to peak) 0.6 (close to valley)
MIR/SEN LH R–L	Door mirror (driver side)		Change between 0.6 (close to left edge) 3.4 (close to right edge)
TILT SEN	Tilt position		Change between 1.2 (close to top) 3.4 (close to bottom)
TELESCO SEN	Telescopic position		Change between 3.4 (close to top) 0.8 (close to bottom)

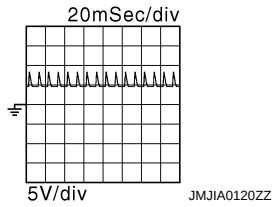
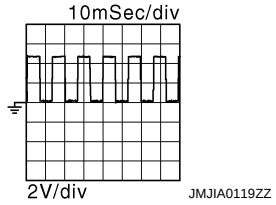
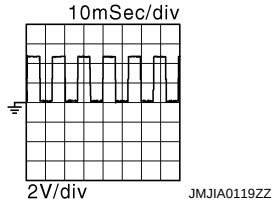
*1: The value at the position attained when the battery is connected is regarded as 32768.

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No.		Wire color	Description		Condition		Voltage (V) (Approx)
+	-		Signal name	Input/ Output			
1	Ground	L/W	UART communication (RX)	Input	Ignition switch ON		
3	—	R/Y	CAN-H	—	—		—
9	Ground	W/G	Reclining sensor signal	Input	Seat reclining	Operate	
						Stop	0 or 5
10	Ground	P/B	Lifting sensor (rear) signal	Input	Seat lifting (rear)	Operate	
						Stop	0 or 5
11	Ground	BR	Sliding switch backward signal	Input	Sliding switch	Operate (backward)	0
						Release	Battery voltage
12	Ground	SB	Reclining switch backward signal	Input	Reclining switch	Operate (backward)	0
						Release	Battery voltage
13	Ground	LG/R	Lifting switch (front) down signal	Input	Lifting switch (front)	Operate (down)	0
						Release	Battery voltage
14	Ground	G/B	Lifting switch (rear) down signal	Input	Lifting switch (rear)	Operate (down)	0
						Release	Battery voltage
16	Ground	O	Sensor power supply	Output	—		5
17	Ground	Y/R	UART communication (TX)	Output	Ignition switch ON		
19	—	V	CAN-L	—	—		—

Terminal No. +	Terminal No. -	Wire color	Description: Signal name	Description: Input/ Output	Condition		Voltage (V) (Approx)
21	Ground	L/Y	Detention switch	Input	A/T selector lever	P position	0
						Except P position	
24	Ground	R	Sliding sensor signal	Input	Seat sliding	Operate	
						Stop	0 or 5
25	Ground	Y/B	Lifting sensor (front) signal	Input	Seat lifting (front)	Operate	
						Stop	0 or 5
26	Ground	Y	Sliding switch forward signal	Input	Sliding switch	Operate (forward)	0
						Release	Battery voltage
27	Ground	R/G	Reclining switch forward signal	Input	Reclining switch	Operate (forward)	0
						Release	Battery voltage
28	Ground	W/B	Lifting switch (front) up signal	Input	Seat lifting switch (front)	Operate (up)	0
						Release	Battery voltage
29	Ground	P/L	Lifting switch (rear) up signal	Input	Seat lifting switch (rear)	Operate (up)	0
						Release	Battery voltage
31	Ground	GR	Sensor ground	—	—		0
32	Ground	B/W	Ground (signal)	—	—		0
33	Ground	R	Power source (C/B)	Input	—		Battery voltage
35	Ground	W/R	Sliding motor forward output signal	Output	Seat sliding	Operate (forward)	Battery voltage
						Release	0
36	Ground	G/Y	Reclining motor forward output signal	Output	Seat reclining	Operate (forward)	Battery voltage
						Release	0

Terminal No.		Wire color	Description		Condition		Voltage (V) (Approx)
+	-		Signal name	Input/ Output			
37	Ground	G/W	Lifting motor (front) down output signal	Output	Seat lifting (front)	Operate (down)	Battery voltage
						Stop	0
38	Ground	L/Y	Lifting motor (rear) up output signal	Output	Seat lifting (rear)	Operate (up)	Battery voltage
						Stop	0
39	Ground	R/B	Lifting motor (rear) down output signal	Output	Seat lifting (rear)	Operate (down)	Battery voltage
						Stop	0
40	Ground	R/W	Power source (Fuse)	Input	—		Battery voltage
42	Ground	W/B	Sliding motor back-ward output signal	Output	Seat sliding	Operate (back-ward)	Battery voltage
						Stop	0
44	Ground	P	Reclining motor back-ward output signal	Output	Seat reclining	Operate (back-ward)	Battery voltage
						Stop	0
45	Ground	L/R	Lifting motor (front) up output signal	Output	Seat lifting (front)	Operate (up)	Battery voltage
						Stop	0
48	Ground	B	Ground (power)	—	—		0

Wiring Diagram - AUTOMATIC DRIVE POSITIONER CONTROL SYSTEM -

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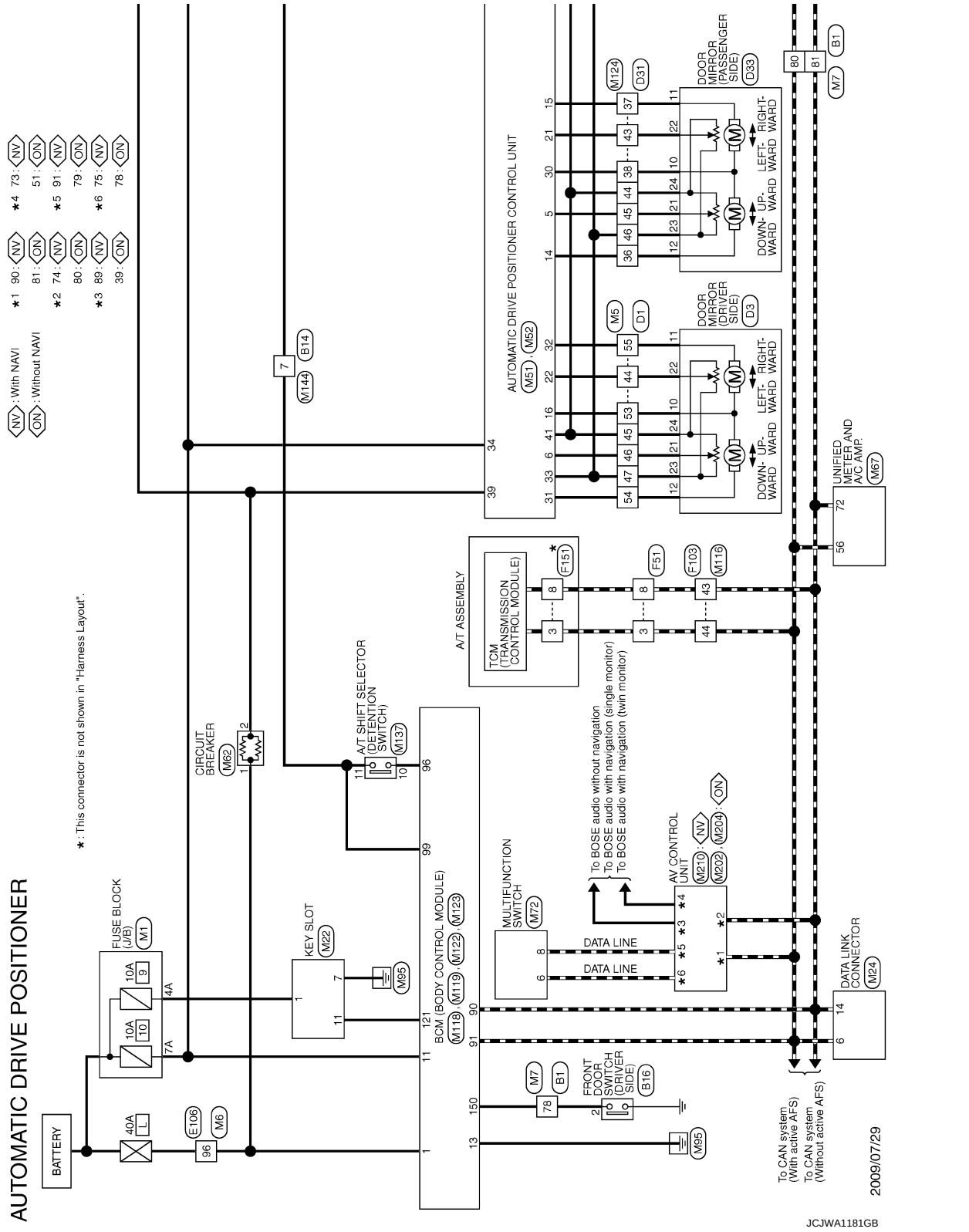
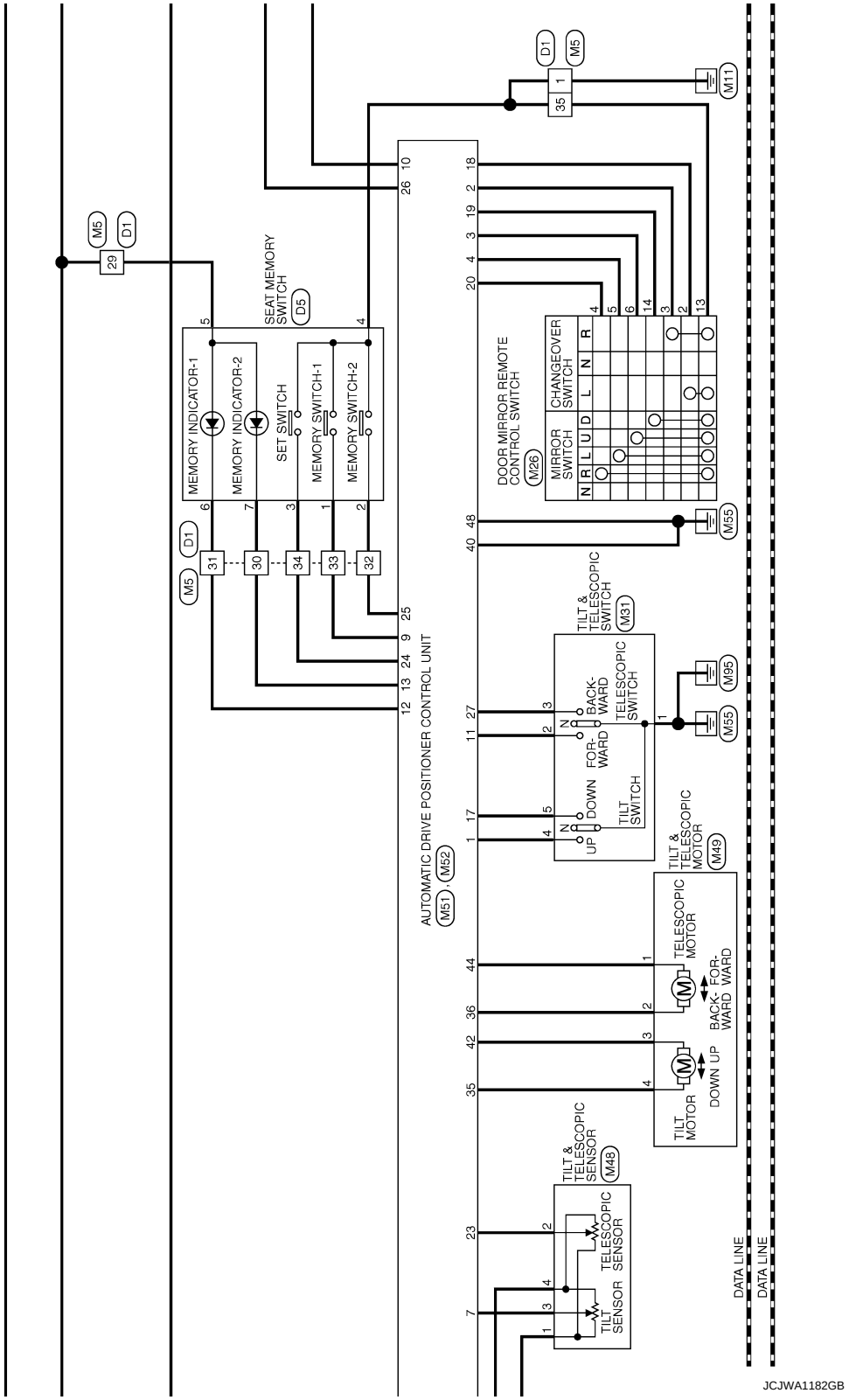
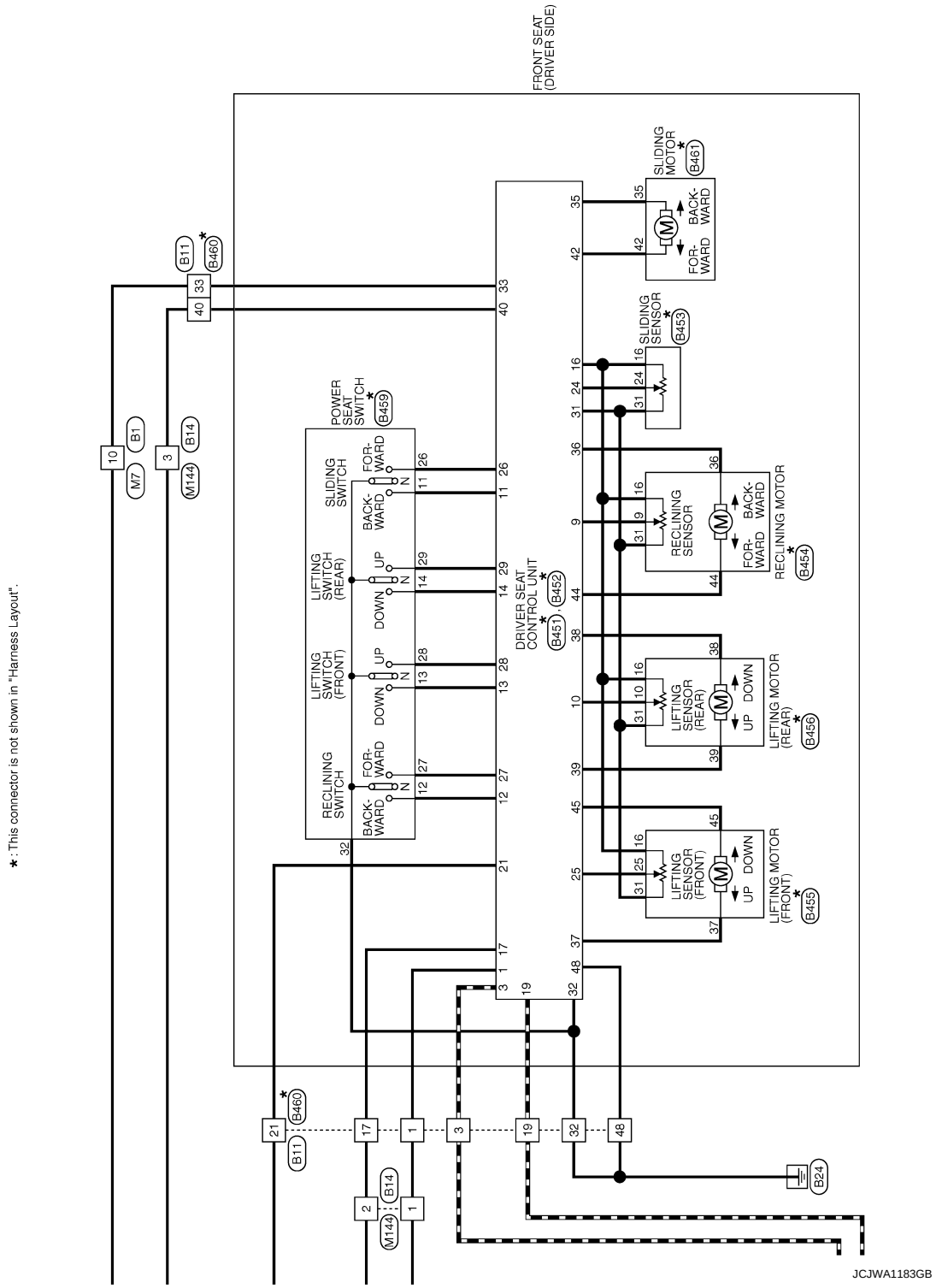



AUTOMATIC DRIVE POSITIONER CONTROL UNIT
M51, M52
SEAT MEMORY SWITCH
D5
MEMORY INDICATOR-1
MEMORY INDICATOR-2
SET SWITCH
MEMORY SWITCH-1
MEMORY SWITCH-2
DOOR MIRROR REMOTE CONTROL SWITCH
M26
MIRROR SWITCH
CHANGEOVER SWITCH
TILT & TELESCOPIC SWITCH
M31
TELESCOPIC SWITCH
TILT SWITCH
TILT & TELESCOPIC MOTOR
M49
TELESCOPIC MOTOR
TILT MOTOR
TILT & TELESCOPIC SENSOR
M48
TELESCOPIC SENSOR
TILT SENSOR
DATA LINE
DATA LINE
JCJWA1182GB



*: This connector is not shown in "Harness Layout".

AUTOMATIC DRIVE POSITIONER

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	–
2	L	–
3	W	–
5	G	–
6	G	–
7	P	–
8	O	–
9	W	–
10	SB	–
11	SB	–
12	B	–
13	G	–
14	R	–
15	W	–
16	SHIELD	–
17	L	–
18	P	–
19	G	–
20	Y	–
21	W	–
23	V	–
24	P	–
25	BR	–
26	GR	–
27	O	–
28	W	–
29	SHIELD	–
38	B	–
39	B	–
40	LG	–
41	G	–
42	GR	–
43	SB	–
44	V	–
45	GR	–
50	B	–
51	V	–
52	SB	–
53	SHIELD	–
54	BR	–
55	Y	–
56	SHIELD	–
57	P	–
58	L	–
59	SHIELD	–
60	L	–
61	P	–
62	GR	–
63	G	–
64	O	–
65	W	–
66	V	–
67	LG	–
68	Y	–
69	G	–
70	GR	–
71	G	–
72	B	–
73	W	–
74	V	–
75	O	–
76	LG	–
77	L	–
78	GR	–
79	W	–
80	L	–
81	P	–
82	L	–
83	P	–
84	SB	–
85	R	–
86	Y	–
87	B	–
88	G	–
89	BR	–
90	W	–
91	R	–
92	O	–
93	BR	–
94	V	–
95	Y	–
96	O	–
97	W	–
98	GR	–
99	W	–

Connector No.	B11
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	–
3	L	–
17	LG	–
19	P	–
21	Y	–
32	B	–
33	SB	–
40	R	–
48	B	–

Connector No.	B14
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	–
2	LG	–
3	R	–
5	W	–
6	R	–
7	Y	–
11	SHIELD	–
12	W	– [With around view monitor]
12	B	– [Without around view monitor]

Connector No.	B16
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	A03FW

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	–

Connector No.	B451
Connector Name	DRIVER SEAT CONTROL UNIT
Connector Type	TH32FW

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	L/W	RX
3	R/Y	CAN-H
9	W/G	PULSE (RECLINING)
10	P/B	PULSE (RR LIFTING)
11	BR	SLIDING SW (BACKWARD)
12	SB	RECLINING SW (BACKWARD)
13	LG/R	FRONT LIFTING SW (DOWNWARD)
14	G/B	REAR LIFTING SW (DOWNWARD)
16	O	VCC
17	Y/R	TX
19	V	CAN-L
21	L/Y	P RANGE SW
24	R	PULSE (SLIDING)
25	Y/B	PULSE (FR LIFTING)
26	Y	SLIDING SW (FORWARD)
27	R/G	RECLINING SW (FORWARD)
28	W/B	FRONT LIFTING SW (UPWARD)
29	P/L	REAR LIFTING SW (UPWARD)
31	GR	SENSOR GND
32	B/W	GND (SIGNAL)

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AUTOMATIC DRIVE POSITIONER

Connector No.	B452
Connector Name	DRIVER SEAT CONTROL UNIT
Connector Type	NS16FW-CS

H.S.

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

Terminal No.	Color of Wire	Signal Name [Specification]
33	R	BAT (C/B)
35	W/R	SLIDING MOTOR (FORWARD)
36	G/Y	RECLINING MOTOR (FORWARD)
37	G/W	FRONT LIFTING MOTOR (DOWNWARD)
38	L/Y	REAR LIFTING MOTOR (UPWARD)
39	R/B	REAR LIFTING MOTOR (DOWNWARD)
40	R/W	BAT (FUSE)
42	W/B	SLIDING MOTOR (BACKWARD)
44	P	RECLINING MOTOR (BACKWARD)
45	L/R	FRONT LIFTING MOTOR (UPWARD)
48	B	GND (POWER)

Connector No.	B453
Connector Name	SLIDING SENSOR
Connector Type	6098-0241

H.S.

24	31	16

Terminal No.	Color of Wire	Signal Name [Specification]
16	O	–
24	R	–
31	GR	–

Connector No.	B454
Connector Name	RECLINING MOTOR
Connector Type	NS06FW-CS

H.S.

36		44
16	31	9

Terminal No.	Color of Wire	Signal Name [Specification]
9	W/G	–
16	O	–
31	GR	–
36	G/Y	–
44	P	–

Connector No.	B455
Connector Name	LIFTING MOTOR (FRONT)
Connector Type	NS06FW-CS

H.S.

45		37
16	31	25

Terminal No.	Color of Wire	Signal Name [Specification]
16	O	–
25	Y/B	–
31	GR	–
37	G/W	–
45	L/R	–

Connector No.	B456
Connector Name	LIFTING MOTOR (REAR)
Connector Type	NS06FBR-CS

H.S.

38		39
16	31	10

Terminal No.	Color of Wire	Signal Name [Specification]
10	P/B	–
16	O	–
31	GR	–
38	L/Y	–
39	R/B	–

Connector No.	B459
Connector Name	POWER SEAT SWITCH
Connector Type	NS10FW-CS

H.S.

32		14	29
12	27	11	26	13	28

Terminal No.	Color of Wire	Signal Name [Specification]
11	BR	–
12	SB	–
13	LG/R	–
14	G/B	–
26	Y	–
27	R/G	–
28	W/B	–
29	P/L	–
32	B/W	–

Connector No.	B460
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-LC

H.S.

19	3	1		17		40	59
20			32	48	21	33	60

Terminal No.	Color of Wire	Signal Name [Specification]
1	L/W	–
3	R/Y	–
17	Y/R	–
19	V	–
21	L/Y	–
32	B/W	–
33	R	–
40	R/W	–
48	B	–

Connector No.	B461
Connector Name	SLIDING MOTOR
Connector Type	6098-0239

H.S.

35	42

Terminal No.	Color of Wire	Signal Name [Specification]
35	W/R	–
42	W/B	–

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AUTOMATIC DRIVE POSITIONER

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15

H.S.

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
48	47	46	45	44	43	42	41	40	39	38	37	36	35	34
33	32	31	30	29	28	27	26	25	24	23	22	21	20	19
18	17	16	15	14	13	12	11	10	9	8	7	6	5	4
3	2	1												

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	–
3	G	–
6	GR	–
7	W	–
8	SB	–
9	BR	–
10	O	–
11	R	–
12	LG	–
13	Y	–
14	P	–
15	L	–
20	V	–
21	Y	–
22	GR	–
23	SB	–
24	LG	–
26	G	–
27	V	–
28	P	–
29	Y	–
30	LG	–
31	O	–
32	BR	–
33	L	–
34	GR	–
35	B	–
38	SHIELD	–
39	W	–
40	BR	–
41	L	–
42	Y	–
43	R	–
44	BR	–
45	V	–
46	P	–
47	W	–
48	GR	–
49	R	–
50	B	–
51	SB	–
52	L	–
53	G	–
54	O	–
55	GR	–

Connector No.	D3
Connector Name	DOOR MIRROR (DRIVER SIDE)
Connector Type	TH24MW-NH

H.S.

12	11	10	9	8	7	6	5	3	2	
24	23	22	21	19	18	17				14

Terminal No.	Color of Wire	Signal Name [Specification]
2	R	–
3	W	SIDE CAMERA LH COMM
5	Y	SIDE CAMERA LH IMAGE SIGNAL
6	R	SIDE CAMERA LH POWER SUPPLY
7	GR	–
8	SB	–
9	L	–
10	G	–
11	GR	–
12	O	–
14	B	–
17	L	SIDE CAMERA LH IMAGE GND
18	BR	SIDE CAMERA LH GND
19	B	–
21	P	–
22	BR	–
23	W	–
24	V	–

Connector No.	D5
Connector Name	SEAT MEMORY SWITCH
Connector Type	A08FW

H.S.

3	5		6	7	2	1	4

Terminal No.	Color of Wire	Signal Name [Specification]
1	L	–
2	BR	–
3	GR	–
4	B	–
5	Y	–
6	O	–
7	LG	–

Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15

H.S.

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
48	47	46	45	44	43	42	41	40	39	38	37	36	35	34
33	32	31	30	29	28	27	26	25	24	23	22	21	20	19
18	17	16	15	14	13	12	11	10	9	8	7	6	5	4
3	2	1												

Terminal No.	Color of Wire	Signal Name [Specification]
3	P	–
4	L	–
5	W	–
6	P	–
7	G	–
8	R	–
9	LG	–
13	B	–
14	V	–
15	Y	–
19	G	–
20	LG	–
21	SHIELD	–
22	W	–
23	BR	–
24	L	–
25	Y	–
26	R	–
31	LG	–
32	R	–
33	SB	–
34	Y	–
35	GR	–
36	O	–
37	GR	–
38	G	–
39	O	–
40	Y	–
41	L	–
42	O	–
43	BR	–
44	V	–
45	P	–
46	W	–

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AUTOMATIC DRIVE POSITIONER

Connector No.	D33
Connector Name	DOOR MIRROR (PASSENGER SIDE)
Connector Type	TH24MW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
2	Y	–
3	W	SIDE CAMERA RH COMM
4	LG	SIDE CAMERA RH IMAGE SIGNAL
5	Y	SIDE CAMERA RH POWER SUPPLY
6	R	–
7	LG	–
8	O	–
9	L	–
10	G	–
11	GR	–
12	O	–
14	O	–
16	G	–
17	L	SIDE CAMERA RH IMAGE GND
18	BR	SIDE CAMERA RH GND
19	B	–
21	P	–
22	BR	–
23	W	–
24	V	–

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	–
2	O	–

3	SB	–
4	LG	–
5	Y	–
6	W	–
7	G	–
8	V	–
9	R	–
10	BR	–
11	B	–
12	G	–
13	R	–
14	W	–
15	SHIELD	–
16	SB	–
17	L	–
18	P	–
19	G	–
20	Y	– [Without ICC]
21	BR	–
22	R	– [With ICC]
22	V	– [Without ICC]
23	G	–
24	L	– [With ICC]
24	P	– [Without ICC]
25	Y	– [With ICC]
25	L	– [Without ICC]
26	SHIELD	–
28	G	–
29	LG	–
30	O	–
31	BR	–
32	W	–
33	Y	–
34	O	–
35	SB	–
36	P	–
37	Y	–
38	GR	–
39	LG	–
41	LG	–
42	V	–
43	R	–
44	G	–
45	GR	–
46	W	–
47	L	–
48	P	–
49	SB	–
50	BR	–
51	B	–
52	Y	–

53	O	–
54	R	–
55	SB	–
56	P	–
59	P	–
60	SB	–
61	V	–
62	P	–
63	LG	–
64	L	–
65	O	–
66	L	–
69	L	–
70	SHIELD	–
71	G	–
72	G	–
73	R	–
74	BR	–
76	L	–
77	W	–
78	Y	–
80	SB	–
81	L	–
82	W	–
83	LG	–
84	GR	–
85	G	–
86	P	–
87	W	–
88	O	–
89	LG	–
90	BR	–
91	GR	–
92	BR	–
93	SB	–
94	W	–
95	Y	–
96	W	–
100	Y	–

Connector No.	F51
Connector Name	A/T ASSEMBLY
Connector Type	RK10FG-DGY

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	–
2	R	– [With VK engine]
2	BR	– [With VQ engine]
3	L	–
4	V	–
5	B	–
6	Y	–
7	R	–
8	P	–
9	LG	– [With VK engine]
9	GR	– [With VQ engine]
10	B	–

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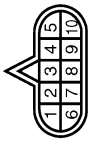
AUTOMATIC DRIVE POSITIONER

Connector No.	F103
Connector Name	WIRE TO WIRE
Connector Type	TK36FW-NS10

Terminal No.	Color of Wire	Signal Name [Specification]
1	SHIELD	–
2	G	–
3	W	–
4	GR	– [With VK engine]
4	R	– [With VQ engine]
5	R	– [With VK engine]
5	B	– [With VQ engine]
6	SHIELD	–
7	B	–
9	W	– [With VK engine]
9	Y	– [With VQ engine]
10	L	– [With VK engine]
10	GR	– [With VQ engine]
17	GR	–
18	R	–
19	O	–
20	Y	–
26	BR	–
27	L	–
28	B	–
29	LG	–
31	R	–
34	LG	–
35	BR	–
36	W	–
37	Y	–
38	Y	–
43	P	–
44	L	–
45	Y	–
46	V	–

Connector No.	F151
Connector Name	TCM (TRANSMISSION CONTROL MODULE)
Connector Type	SP10FG

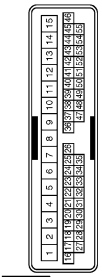


Terminal No.	Color of Wire	Signal Name [Specification]
1	W	VIGN
2	B	BATT
3	R	CAN-H
4	O	K LINE
5	G	GND
6	GR	VIGN
7	L	REV LAMP RLY
8	BR	CAN-L
9	Y	START RLY
10	W/B	GND

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS06FW-M2

Terminal No.	Color of Wire	Signal Name [Specification]
1A	O	–
2A	G	–
3A	L	–
4A	P	–
5A	V	–
6A	Y	–
7A	R	–
8A	L	–

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	–
3	SB	–
6	R	–
7	W	–
8	G	–
9	L	–
10	O	–
11	G	–
12	V	–
13	Y	–
14	P	–
15	L	–
20	O	–
21	LG	–
22	V	–
23	Y	–
24	P	–
26	SB	–
27	V	–
28	LG	–
29	R	–
30	P	–
31	O	–
32	SB	–
33	L	–
34	R	–
35	B	–
38	SHIELD	–
39	W	–
40	B	–
41	G	–
42	Y	–
43	R	–
44	G	–
45	Y	–
46	GR	–
47	W	–
48	L	–
49	R	–
50	O	–
51	SB	–
52	R	–
53	Y	–
54	LG	–
55	L	–

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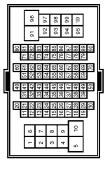
AUTOMATIC DRIVE POSITIONER

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	–
2	O	–
3	SB	–
4	LG	–
5	GR	–
6	W	–
7	G	–
8	W	–
9	P	–
10	BR	–
11	B	–
12	G	–
13	R	–
14	W	–
15	SHIELD	–
16	BR	–
17	L	–
18	P	–
19	G	–
20	W	– [With ICC]
20	GR	– [Without ICC]
21	BR	– [With ICC]
21	R	– [Without ICC]
22	R	– [With ICC]
22	L	– [Without ICC]
23	G	–
24	L	– [With ICC]
24	P	– [Without ICC]
25	Y	– [With ICC]
25	W	– [Without ICC]
26	SHIELD	–
28	GR	–
29	V	–
30	O	–
31	BR	–
32	W	–
33	Y	–
34	L	–
35	L	–
36	P	–
37	G	–
38	R	–
39	G	–
41	L	–
42	W	–
43	R	–
44	LG	–
45	GR	–
46	W	–
47	L	–
48	P	–
49	O	–
50	LG	–
51	SB	–
52	Y	–
53	O	–
54	BR	–
55	SB	–
56	P	–
59	SB	–
60	SB	–
61	V	–
62	P	–
63	R	–
64	L	–
65	O	–
66	L	–
69	V	–
70	SHIELD	–
71	O	–
72	GR	–
73	W	–
74	SB	–
76	V	–
77	V	–
78	Y	–
80	O	–
81	L	–
82	W	–
83	Y	–
84	L	–
85	P	–
86	BR	–
87	P	–
88	V	–
89	G	–
90	P	–
91	R	–
92	R	–
93	GR	–
94	L	–
95	G	–
96	W	–
100	Y	–

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AUTOMATIC DRIVE POSITIONER

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	–
2	B	–
3	W	–
5	G	–
6	P	–
7	V	–
8	O	–
9	W	–
10	W	–
11	O	–
12	B	–
13	G	–
14	R	–
15	W	–
16	SHIELD	–
17	L	–
18	P	–
19	G	–
20	R	–
21	LG	–
23	V	–
24	P	–
25	BR	–
26	GR	–
27	O	–
28	W	–
29	SHIELD	–
38	B	–
39	B	–
40	LG	–
41	G	–
42	Y	–
43	SB	–
44	W	–
45	B	–
50	B	–
51	V	–
52	LG	–
53	SHIELD	–
54	BR	–
55	Y	–
56	SHIELD	–
57	P	–
58	L	–
59	SHIELD	–
60	L	–
61	BR	–
62	R	–
63	Y	–
64	L	–
65	W	–
66	V	–
67	LG	–
68	Y	–
69	G	–
70	V	–
71	W	–
72	B	–
73	W	–
74	LG	–
75	P	–
76	LG	–
77	SB	–
78	GR	–
79	R	–
80	L	–
81	P	–
82	L	–
83	P	–
84	SB	–
85	W	–
86	Y	–
87	B	–
88	G	–
89	O	–
90	W	–
91	R	–
92	O	–
93	BR	–
94	V	–
95	Y	–
96	O	–
97	W	–
98	R	–
99	G	– [With VK engine]
99	O	– [With VQ engine]

Connector No.	M22
Connector Name	KEY SLOT
Connector Type	TH12FW-NH

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	R	BAT
2	GR	CLOCK
3	W	DATA
5	Y	ILL BAT
6	LG	ILL
7	B	GND
11	BR	KEY SWITCH SIGNAL

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
3	LG	–
4	B	–
5	B	–
6	L	–
7	GR	–
8	G	–
11	SB	–
12	P	–
13	L	–
14	P	–
16	O	–

Connector No.	M26
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH
Connector Type	TK16FBR

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
2	P	–
3	LG	–
4	BR	–
5	V	–
6	G	–
8	SB	–
9	LG	–
10	R	–
11	P	–
12	G	–
13	B	–
14	SB	–
15	O	–
16	W	–

Connector No.	M31
Connector Name	TILT & TELESCOPIC SWITCH
Connector Type	TK06FGY

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	–
2	SB	–
3	G	–
4	Y	–
5	W	–

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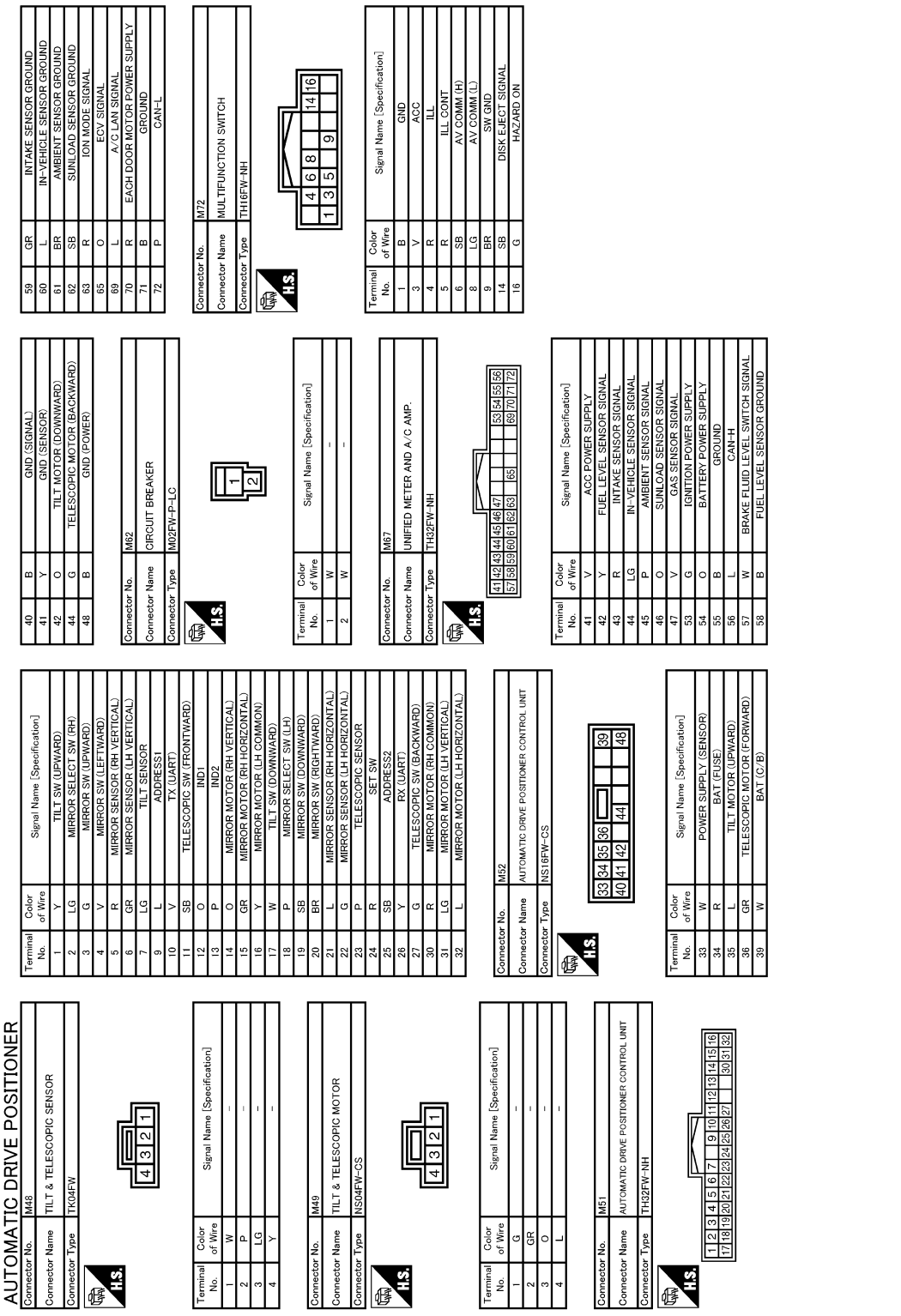

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AUTOMATIC DRIVE POSITIONER

Connector No.	M116
Connector Name	WIRE TO WIRE
Connector Type	TK36MW-NS10

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	–
2	W	–
3	L	–
4	B	– [With VK engine]
4	R	– [With VQ engine]
5	R	– [With VK engine]
5	B	– [With VQ engine]
6	B	–
7	B	–
9	L	– [With VK engine]
9	R	– [With VQ engine]
10	R	–
17	LG	–
18	R	–
19	O	–
20	Y	–
26	V	–
27	L	–
28	B	–
29	LG	–
31	W	–
34	LG	–
35	BR	–
36	W	–
37	Y	–
38	O	–
43	P	–
44	L	–
45	G	–
46	Y	–

Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	M03FB-LC

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	BAT (F/L)
2	Y	POWER WINDOW POWER SUPPLY (BAT)
3	O	POWER WINDOW POWER SUPPLY (RAP)

Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FW-CS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
4	P	INT ROOM LAMP PWR SUPPLY (BAT SAVE)
5	V	PASSENGER DOOR UNLOCK OUTPUT
7	Y	STEP LAMP OUTPUT
8	V	ALL DOOR, FUEL LID LOCK OUTPUT
9	G	DRIVER DOOR, FUEL LID UNLOCK OUTPUT
10	BR	REAR DOOR UNLOCK OUTPUT
11	R	BAT (FUSE)
13	B	GND
15	Y	ACC IND
17	W	TURN SIGNAL RH (FRONT)
18	O	TURN SIGNAL LH (FRONT)
19	SB	ROOM LAMP TIMER

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH

H.S.

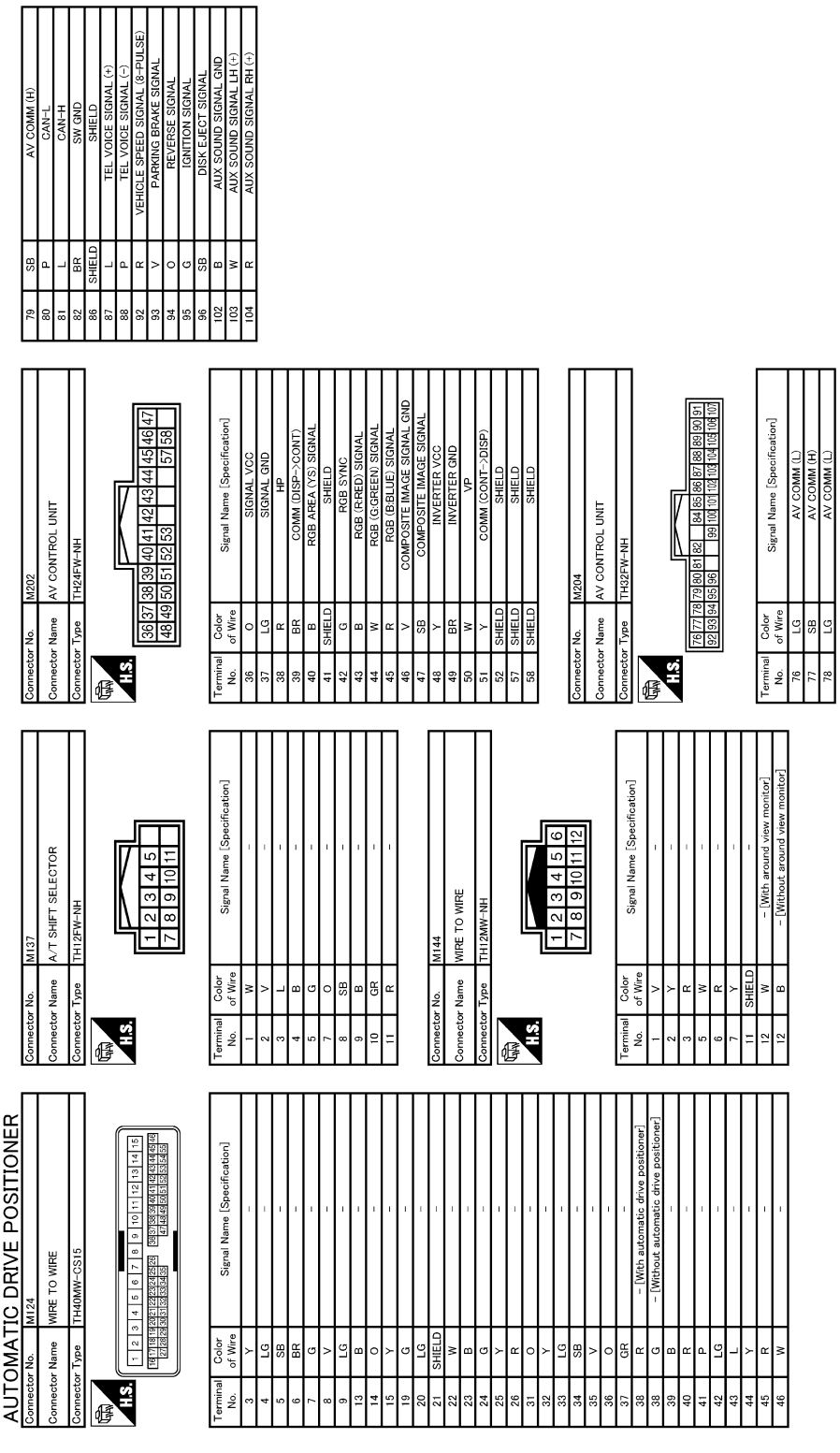
Terminal No.	Color of Wire	Signal Name [Specification]
72	R	ROOM ANT2–
73	G	ROOM ANT2+
74	SB	PASSENGER DOOR ANT–
75	BR	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT–
77	LG	DRIVER DOOR ANT+
78	Y	ROOM ANT1–
79	BR	ROOM ANT1+
80	GR	NATS ANT AMP.
81	W	NATS ANT AMP.
82	P	IGN RELAY (F/B) CONT
83	GR	KEYLESS ENTRY RECEIVER SIGNAL
87	BR	COMBI SW INPUT 5
88	V	COMBI SW INPUT 3
89	SB	PUSH SW
90	P	CAN-L
91	L	CAN-H
92	LG	KEY SLOT ILL
93	V	ON IND
95	O	ACC RELAY CONT
96	GR	A/T SHIFT SELECTOR POWER SUPPLY
97	L	S/L CONDITION 1
98	P	S/L CONDITION 2
99	R	SHIFT P
100	G	PASSENGER DOOR REQUEST SW
101	SB	DRIVER DOOR REQUEST SW
102	O	BLOWER FAN MOTOR RELAY CONT
103	BR	KEYLESS ENTRY RECEIVER POWER SUPPLY
106	W	S/L UNIT POWER SUPPLY
107	LG	COMBI SW INPUT 1
108	R	COMBI SW INPUT 4
109	Y	COMBI SW INPUT 2
110	G	HAZARD SW
111	GR	S/L UNIT COMM

Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FG-NH

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
112	GR	RAIN SENSOR SERIAL LINK
113	P	OPLICAL SENSOR
116	BR	STOP LAMP SW 1
118	P	STOP LAMP SW 2
119	SB	DR DOOR UNLOCK SENSOR
121	BR	KEY SLOT SW
123	W	IGN F/B
124	LG	PASSENGER DOOR SW
132	O	POWER WINDOW SW COMM
134	GR	LOCK IND
137	B	RECEIVER/SENSOR GND
138	Y	SENSOR POWER SUPPLY
140	R	SHIFT N/P
141	G	SECURITY INDICATOR OUTPUT
142	O	COMBI SW OUTPUT 5
143	P	COMBI SW OUTPUT 1
144	G	COMBI SW OUTPUT 2
145	L	COMBI SW OUTPUT 3
146	SB	COMBI SW OUTPUT 4
150	GR	DRIVER DOOR SW
151	G	REAR WINDOW DEFOGGER RELAY CONT

JCJWA1192GB



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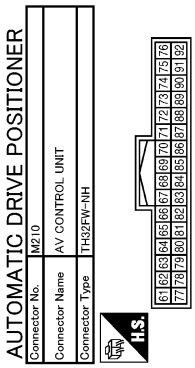
AUTOMATIC DRIVE POSITIONER

Connector No.	M210
Connector Name	AV CONTROL UNIT
Connector Type	TH32FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
64	GR	DRIVER DOOR SW SIGNAL
65	V	PARKING BRAKE SIGNAL
67	B	COMPOSITE IMAGE SIGNAL GND
68	R	COMPOSITE IMAGE SIGNAL
71	SHIELD	MICROPHONE SHIELD
72	G	MICROPHONE VCC
73	R	COMM (CONT->DISP)
74	P	CAN-L
75	LG	AV COMM (L)
76	LG	AV COMM (L)
79	R	ILLUMINATION
80	G	IGNITION SIGNAL
81	O	REVERSE SIGNAL
82	R	VEHICLE SPEED SIGNAL (8-PULSE)
83	SHIELD	SHIELD
84	W	COMPOSITE IMAGE SYNC SIGNAL
87	R	MICROPHONE SIGNAL
88	SHIELD	SHIELD
89	G	COMM (DISP->CONT)
90	L	CAN-H
91	SB	AV COMM (H)
92	SB	AV COMM (H)

JCJWA1194GB

Fail Safe

INFOID:0000000005236545

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

Operating in fail-safe mode	Malfunction Item	Related DTC	Diagnosis
Only manual functions operate normally.	CAN communication	U1000	ADP-45
	Tilt sensor	B2118	ADP-50
	Telescopic sensor	B2119	ADP-53
	Detent switch	B2126	ADP-56
Only manual functions, except door mirror, operate normally.	UART communication	B2128	ADP-58
Only manual functions, except seat sliding, operate normally.	Seat sliding output	B2112	ADP-46
Only manual functions, except seat reclining, operate normally.	Seat reclining output	B2113	ADP-48

DTC Index

INFOID:0000000005236546

CONSULT-III display	Timing*1		Item	Reference page
	Current malfunction	Previous malfunction		
CAN COMM CIRCUIT [U1000]	0	1-39	CAN communication	ADP-45
SEAT SLIDE [B2112]	0	1-39	Seat slide motor output	ADP-46
SEAT RECLINING [B2113]	0	1-39	Seat reclining motor output	ADP-48
TILT SENSOR [B2118]	0	1-39	Tilt sensor input	ADP-50
TELESCO SENSOR [B2119]	0	1-39	Telescopic sensor input	ADP-53
DETENT SW [B2126]	0	1-39	Detention switch condition	ADP-56
UART COMM [B2128]	0	1-39	UART communication	ADP-58

*1:

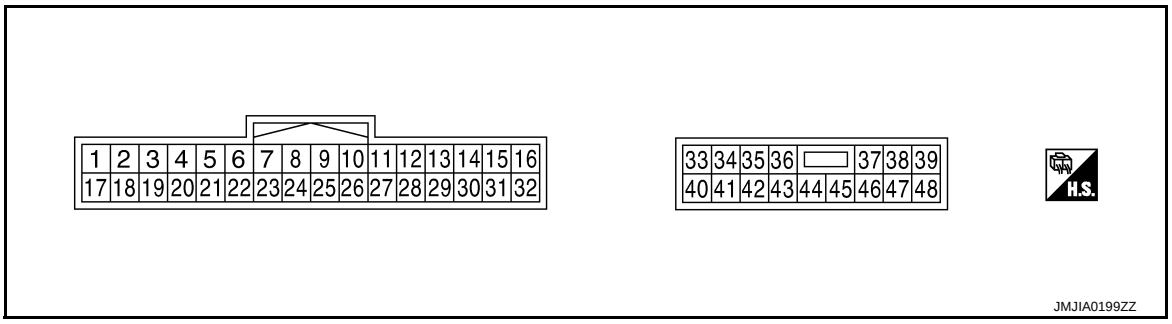
- 0: Current malfunction is present
- 1-39: Displayed if any previous malfunction is present when current condition is normal. The numeral value increases by one at each IGN ON to OFF cycle from 1 to 39. The counter remains at 39 even if the number of cycles exceeds it. However, the counter is reset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

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

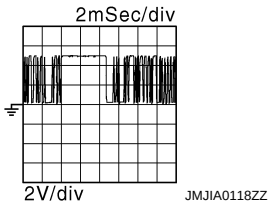
Reference Value

INFOID:0000000005236547

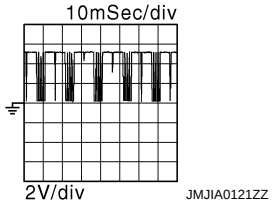
TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No.		Wire color	Description		Condition		Voltage (V) (Approx.)
+	-		Signal name	Input/ Out-put			
1	Ground	Y	Tilt switch up signal	Input	Tilt switch	Operate (up)	0
						Other than above	5
2	Ground	LG	Changeover switch RH signal	Input	Changeover switch position	RH	0
						Neutral or LH	5
3	Ground	G	Mirror switch up signal	Input	Mirror switch	Operated (up)	0
						Other than above	5
4	Ground	V	Mirror switch left signal	Input	Mirror switch	Operated (left)	0
						Other than above	5
5	Ground	R	Door mirror sensor (RH) up/down signal	Input	Door mirror RH position		Change between 3.4 (close to peak) 0.6 (close to valley)
6	Ground	GR	Door mirror sensor (LH) up/down signal	Input	Door mirror LH position		Change between 3.4 (close to peak) 0.6 (close to valley)
7	Ground	O	Tilt sensor signal	Input	Tilt position		Change between 1.2 (close to top) 3.4 (close to bottom)
9	Ground	L	Memory switch 1 signal	Input	Memory switch 1	Push	0
						Other than above	5
10	Ground	V	UART communication (TX)	Out-put	Ignition switch ON		

Terminal No.		Wire color	Description		Condition		Voltage (V) (Approx.)
+	-		Signal name	Input/ Output			
11	Ground	GR	Telescopic switch forward signal	Input	Telescopic switch	Operate (forward)	0
						Other than above	5
12	Ground	O	Memory indictor 1 signal	Output	Memory indictor 1	Illuminate	0
						Other than above	Battery voltage
13	Ground	P	Memory indictor 2 signal	Output	Memory indictor 2	Illuminate	0
						Other than above	Battery voltage
14	Ground	W	Door mirror motor (RH) up output signal	Output	Door mirror RH	Operate (up)	Battery voltage
						Other than above	0
15	Ground	G	Door mirror motor (RH) left output signal	Output	Door mirror RH	Operate (left)	Battery voltage
						Other than above	0
16	Ground	Y	Door mirror motor (LH) down output signal	Output	Door mirror (LH)	Operate (down)	Battery voltage
						Other than above	0
			Door mirror motor (LH) right output signal			Operate (right)	Battery voltage
						Other than above	0
17	Ground	W	Tilt switch down signal	Input	Tilt switch	Operate (down)	0
						Other than above	5
18	Ground	P	Changeover switch LH signal	Input	Changeover switch position	LH	0
						Neutral or RH	5
19	Ground	SB	Mirror switch down signal	Input	Mirror switch	Operate (down)	0
						Other than above	5
20	Ground	BR	Mirror switch right signal	Input	Mirror switch	Operate (right)	0
						Other than above	5
21	Ground	L	Door mirror sensor (RH) left/right signal	Input	Door mirror RH position		Change between 3.4 (close to left edge) 0.6 (close to right edge)
22	Ground	G	Door mirror sensor (LH) left/right signal	Input	Door mirror LH position		Change between 0.6 (close to left edge) 3.4 (close to right edge)
23	Ground	P	Telescopic sensor signal	Input	Telescopic position		Change between 0.8 (close to top) 3.4 (close to bottom)

Terminal No.		Wire color	Description		Condition		Voltage (V) (Approx.)
+	-		Signal name	Input/ Output			
24	Ground	R	Set switch signal	Input	Set switch	Push	0
						Other than above	5
25	Ground	SB	Memory switch 2 signal	Input	Memory switch 2	Push	0
						Other than above	5
26	Ground	Y	UART communication (RX)	Input	Ignition switch ON		
27	Ground	G	Telescopic switch backward signal	Input	Telescopic switch	Operate (backward)	0
						Other than above	5
30	Ground	R	Door mirror motor (RH) down output signal	Output	Door mirror (RH)	Operate (down)	Battery voltage
						Other than above	0
			Door mirror motor (RH) right output signal			Operate (right)	Battery voltage
						Other than above	0
31	Ground	L	Door mirror motor (LH) up output signal	Output	Door mirror (LH)	Operate (up)	Battery voltage
						Other than above	0
32	Ground	L	Door mirror motor (LH) left output signal	Output	Door mirror (LH)	Operate (left)	Battery voltage
						Other than above	0
33	Ground	W	Sensor power supply	Input	—		5
34	Ground	R	Power source (Fuse)	Input	—		Battery voltage
35	Ground	L	Tilt motor up output signal	Output	Steering tilt	Operate (up)	Battery voltage
						Other than above	0
36	Ground	GR	Telescopic motor forward output signal	Output	Steering telescopic	Operate (forward)	Battery voltage
						Other than above	0
39	Ground	W	Power source (C/B)		—		Battery voltage
40	Ground	B	Ground	—	—		0
41	Ground	Y	Sensor ground	—	—		0

Terminal No.		Wire color	Description		Condition		Voltage (V) (Approx.)
+	-		Signal name	Input/ Output			
42	Ground	O	Tilt motor down output signal	Output	Steering tilt	Operate (down)	Battery voltage
						Other than above	0
44	Ground	G	Telescopic motor backward output signal	Output	Steering telescopic	Operate (backward)	Battery voltage
						Other than above	0
48	Ground	B	Ground	—	—		0

Wiring Diagram - AUTOMATIC DRIVE POSITIONER CONTROL SYSTEM -

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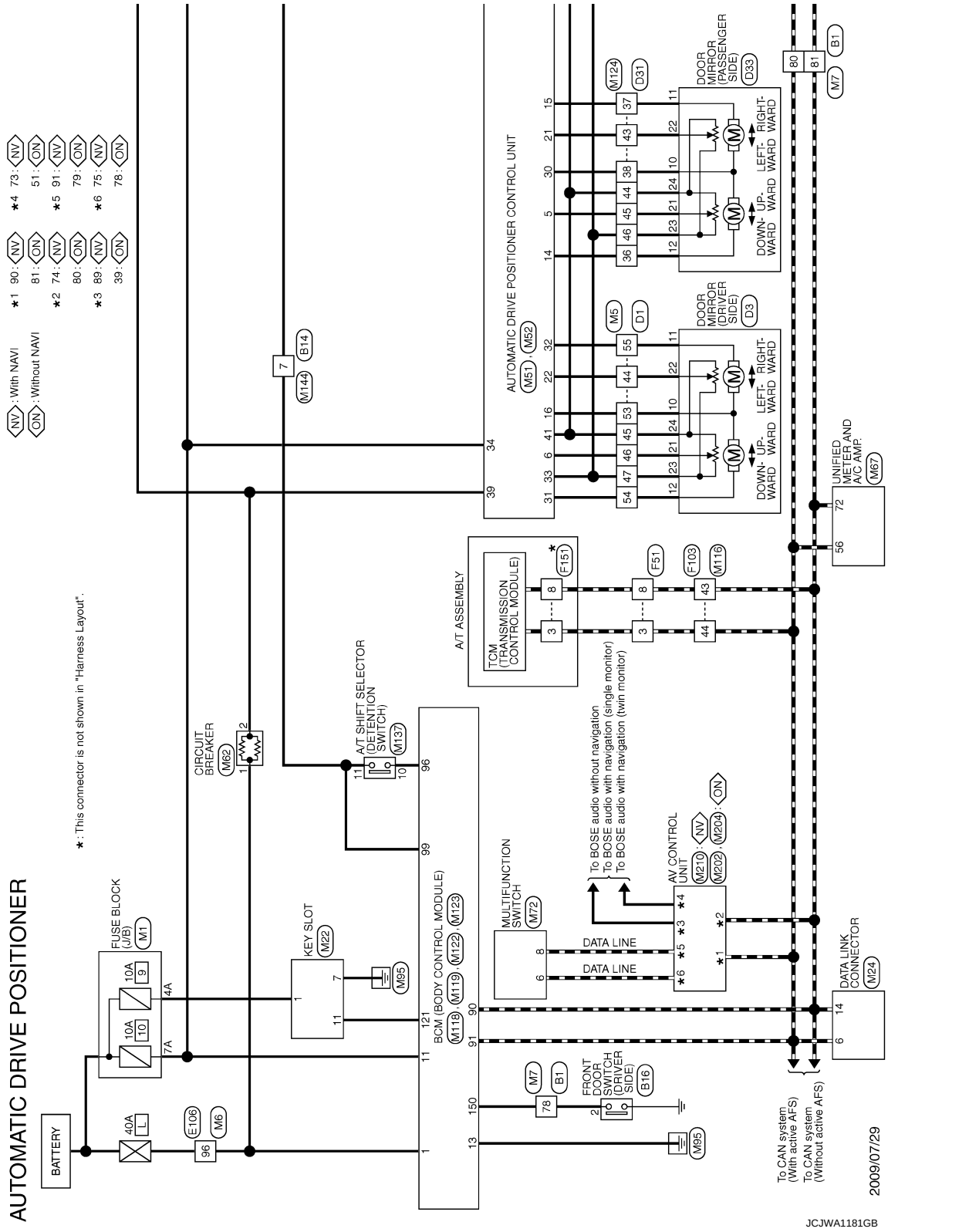
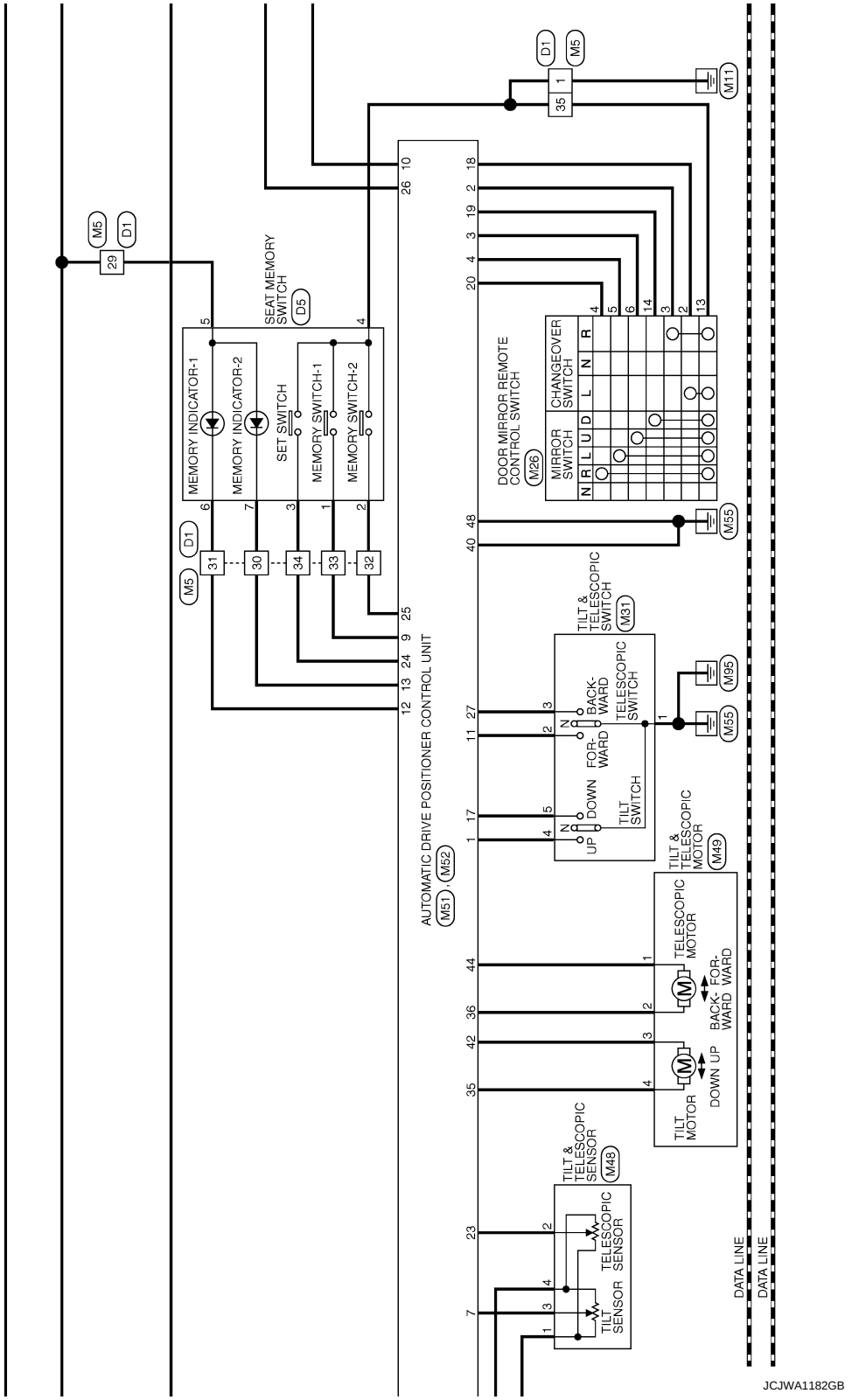
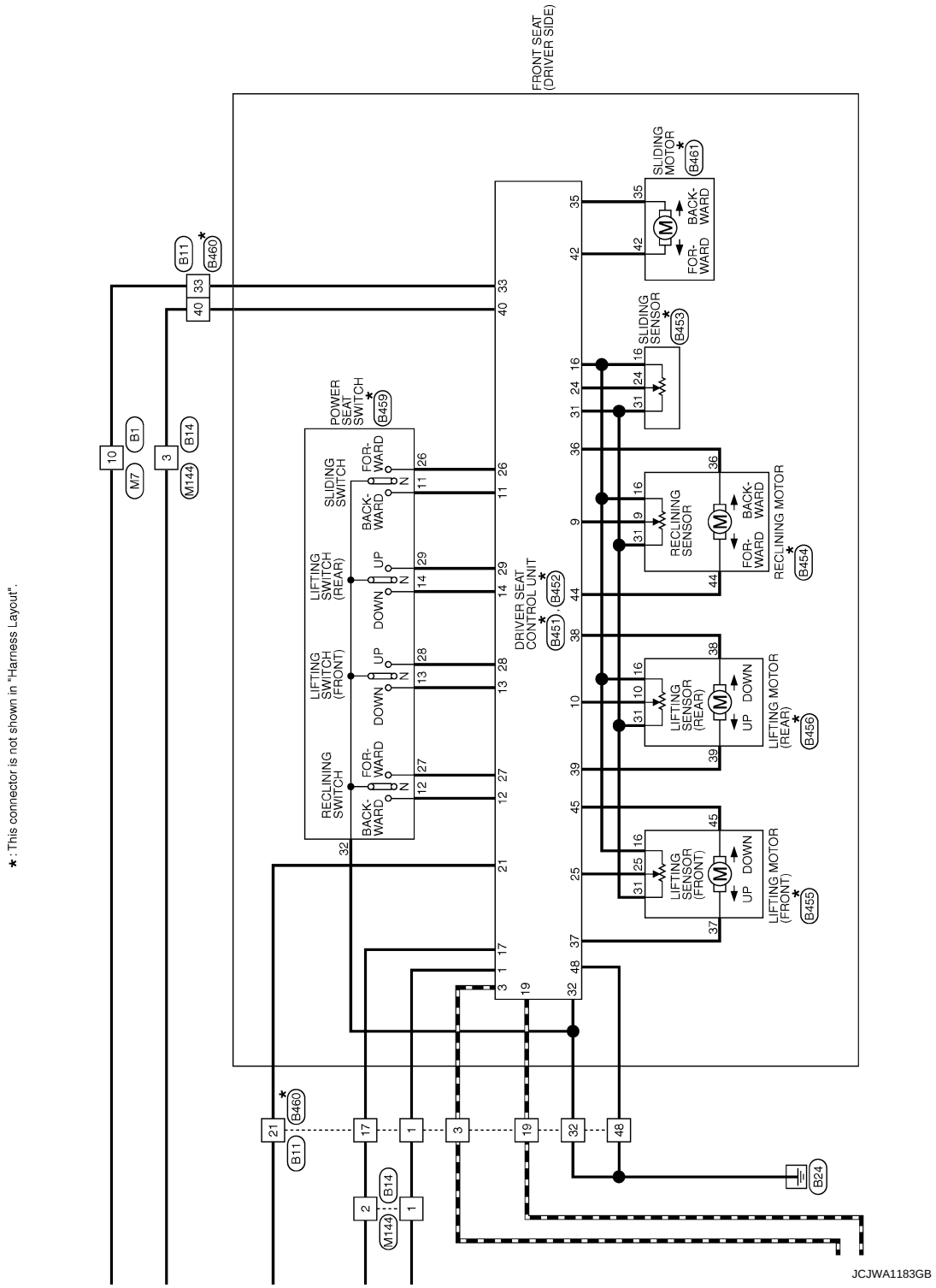



AUTOMATIC DRIVE POSITIONER CONTROL UNIT
M51
M52
SEAT MEMORY SWITCH
D5
MEMORY INDICATOR-1
MEMORY INDICATOR-2
SET SWITCH
MEMORY SWITCH-1
MEMORY SWITCH-2
DOOR MIRROR REMOTE CONTROL SWITCH
M26
MIRROR SWITCH
CHANGEOVER SWITCH
TILT & TELESCOPIC SWITCH
M31
TELESCOPIC SWITCH
BACK-WARD
FOR-WARD
TILT SWITCH
DOWN
UP
TILT & TELESCOPIC MOTOR
M49
TELESCOPIC MOTOR
BACK-WARD
FOR-WARD
TILT MOTOR
DOWN
UP
TILT & TELESCOPIC SENSOR
M48
TELESCOPIC SENSOR
TILT SENSOR
DATA LINE
DATA LINE
M11
M55
M95
JCJWA1182GB



*: This connector is not shown in "Harness Layout".

AUTOMATIC DRIVE POSITIONER

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	–
2	L	–
3	W	–
5	G	–
6	G	–
7	P	–
8	O	–
9	W	–
10	SB	–
11	SB	–
12	B	–
13	G	–
14	R	–
15	W	–
16	SHIELD	–
17	L	–
18	P	–
19	G	–
20	Y	–
21	W	–
23	V	–
24	P	–
25	BR	–
26	GR	–
27	O	–
28	W	–
29	SHIELD	–
38	B	–
39	B	–
40	LG	–
41	G	–
42	GR	–
43	SB	–
44	V	–
45	GR	–
50	B	–
51	V	–
52	SB	–
53	SHIELD	–
54	BR	–
55	Y	–
56	SHIELD	–
57	P	–
58	L	–
59	SHIELD	–
60	L	–
61	P	–
62	GR	–
63	G	–
64	O	–
65	W	–
66	V	–
67	LG	–
68	Y	–
69	G	–
70	GR	–
71	G	–
72	B	–
73	W	–
74	V	–
75	O	–
76	LG	–
77	L	–
78	GR	–
79	W	–
80	L	–
81	P	–
82	L	–
83	P	–
84	SB	–
85	R	–
86	Y	–
87	B	–
88	G	–
89	BR	–
90	W	–
91	R	–
92	O	–
93	BR	–
94	V	–
95	Y	–
96	O	–
97	W	–
98	GR	–
99	W	–

Connector No.	B11
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	–
3	L	–
17	LG	–
19	P	–
21	Y	–
32	B	–
33	SB	–
40	R	–
48	B	–

Connector No.	B14
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	–
2	LG	–
3	R	–
5	W	–
6	R	–
7	Y	–
11	SHIELD	–
12	W	– [With around view monitor]
12	B	– [Without around view monitor]

Connector No.	B16
Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)
Connector Type	A03FW

Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	–

Connector No.	B451
Connector Name	DRIVER SEAT CONTROL UNIT
Connector Type	TH32FW

Terminal No.	Color of Wire	Signal Name [Specification]
1	L/W	RX
3	R/Y	CAN-H
9	W/G	PULSE (RECLINING)
10	P/B	PULSE (RR LIFTING)
11	BR	SLIDING SW (BACKWARD)
12	SB	RECLINING SW (BACKWARD)
13	LG/R	FRONT LIFTING SW (DOWNWARD)
14	G/B	REAR LIFTING SW (DOWNWARD)
16	O	VCC
17	Y/R	TX
19	V	CAN-L
21	L/Y	P RANGE SW
24	R	PULSE (SLIDING)
25	Y/B	PULSE (FR LIFTING)
26	Y	SLIDING SW (FORWARD)
27	R/G	RECLINING SW (FORWARD)
28	W/B	FRONT LIFTING SW (UPWARD)
29	P/L	REAR LIFTING SW (UPWARD)
31	GR	SENSOR GND
32	B/W	GND (SIGNAL)

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AUTOMATIC DRIVE POSITIONER

Connector No.	B452
Connector Name	DRIVER SEAT CONTROL UNIT
Connector Type	NS18FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
33	R	BAT (C/B)
35	W/R	SLIDING MOTOR (FORWARD)
36	G/Y	RECLINING MOTOR (FORWARD)
37	G/W	FRONT LIFTING MOTOR (DOWNWARD)
38	L/Y	REAR LIFTING MOTOR (UPWARD)
39	R/B	REAR LIFTING MOTOR (DOWNWARD)
40	R/W	BAT (FUSE)
42	W/B	SLIDING MOTOR (BACKWARD)
44	P	RECLINING MOTOR (BACKWARD)
45	L/R	FRONT LIFTING MOTOR (UPWARD)
48	B	GND (POWER)

Connector No.	B453
Connector Name	SLIDING SENSOR
Connector Type	6098-0241

Terminal No.	Color of Wire	Signal Name [Specification]
16	O	–
24	R	–
31	GR	–

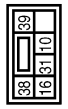
Connector No.	B454
Connector Name	RECLINING MOTOR
Connector Type	NS06FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
9	W/G	–
16	O	–
31	GR	–
36	G/Y	–
44	P	–

Connector No.	B455
Connector Name	LIFTING MOTOR (FRONT)
Connector Type	NS06FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
16	O	–
25	Y/B	–
31	GR	–
37	G/W	–
45	L/R	–

Connector No.	B456
Connector Name	LIFTING MOTOR (REAR)
Connector Type	NS06FBR-CS

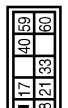


Terminal No.	Color of Wire	Signal Name [Specification]
10	P/B	–
16	O	–
31	GR	–
38	L/Y	–
39	R/B	–

Connector No.	B459
Connector Name	POWER SEAT SWITCH
Connector Type	NS10FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
11	BR	–
12	SB	–
13	LG/R	–
14	G/B	–
26	Y	–
27	R/G	–
28	W/B	–
29	P/L	–
32	B/W	–

Connector No.	B460
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-LC



Terminal No.	Color of Wire	Signal Name [Specification]
1	L/W	–
3	R/Y	–
17	Y/R	–
19	V	–
21	L/Y	–
32	B/W	–
33	R	–
40	R/W	–
48	B	–

Connector No.	B461
Connector Name	SLIDING MOTOR
Connector Type	6098-0239

Terminal No.	Color of Wire	Signal Name [Specification]
35	W/R	–
42	W/B	–

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AUTOMATIC DRIVE POSITIONER

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15

H.S.

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
48	47	46	45	44	43	42	41	40	39	38	37	36	35	34
33	32	31	30	29	28	27	26	25	24	23	22	21	20	19

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	–
3	G	–
6	GR	–
7	W	–
8	SB	–
9	BR	–
10	O	–
11	R	–
12	LG	–
13	Y	–
14	P	–
15	L	–
20	V	–
21	Y	–
22	GR	–
23	SB	–
24	LG	–
26	G	–
27	V	–
28	P	–
29	Y	–
30	LG	–
31	O	–
32	BR	–
33	L	–
34	GR	–
35	B	–
38	SHIELD	–
39	W	–
40	BR	–
41	L	–
42	Y	–
43	R	–
44	BR	–
45	V	–
46	P	–
47	W	–
48	GR	–

Connector No.	D3
Connector Name	DOOR MIRROR (DRIVER SIDE)
Connector Type	TH24MW-NH

H.S.

12	11	10	9	8	7	6	5	3	2
24	23	22	21	20	19	18	17	14	

Terminal No.	Color of Wire	Signal Name [Specification]
2	R	–
3	W	SIDE CAMERA LH COMM
5	Y	SIDE CAMERA LH IMAGE SIGNAL
6	R	SIDE CAMERA LH POWER SUPPLY
7	GR	–
8	SB	–
9	L	–
10	G	–
11	GR	–
12	O	–
14	B	–
17	L	SIDE CAMERA LH IMAGE GND
18	BR	SIDE CAMERA LH GND
19	B	–
21	P	–
22	BR	–
23	W	–
24	V	–

49	R	–
50	B	–
51	SB	–
52	L	–
53	G	–
54	O	–
55	GR	–

Connector No.	D5
Connector Name	SEAT MEMORY SWITCH
Connector Type	A08FW

H.S.

3	5	6	7	2	1	4

Terminal No.	Color of Wire	Signal Name [Specification]
1	L	–
2	BR	–
3	GR	–
4	B	–
5	Y	–
6	O	–
7	LG	–

Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15

H.S.

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
48	47	46	45	44	43	42	41	40	39	38	37	36	35	34
33	32	31	30	29	28	27	26	25	24	23	22	21	20	19

Terminal No.	Color of Wire	Signal Name [Specification]
3	P	–
4	L	–
5	W	–
6	P	–
7	G	–
8	R	–
9	LG	–
13	B	–
14	V	–
15	Y	–
19	G	–
20	LG	–
21	SHIELD	–
22	W	–
23	BR	–

24	L	–
25	Y	–
26	R	–
31	LG	–
32	R	–
33	SB	–
34	Y	–
35	GR	–
36	O	–
37	GR	–
38	G	–
39	O	–
40	Y	–
41	L	–
42	O	–
43	BR	–
44	V	–
45	P	–
46	W	–

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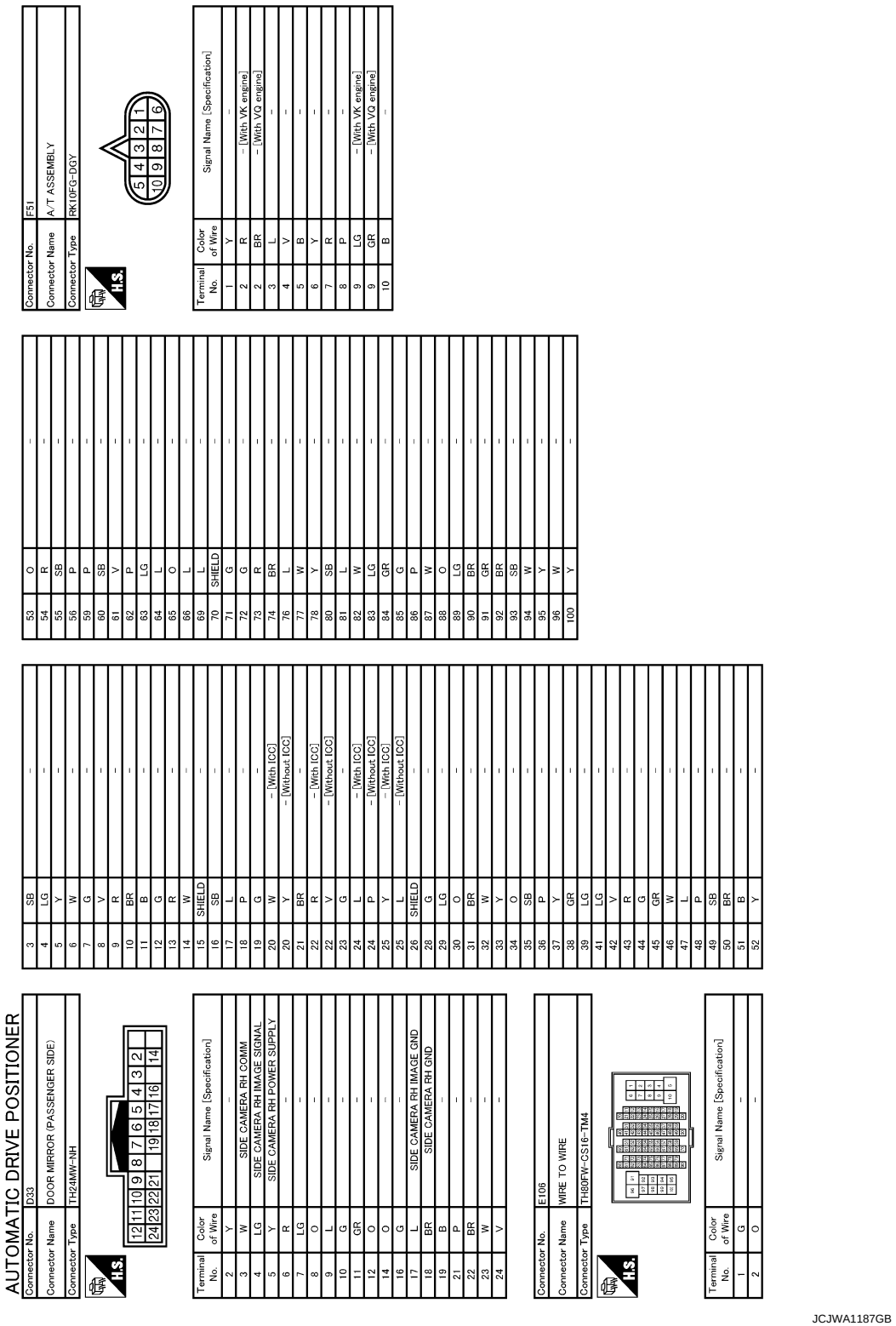

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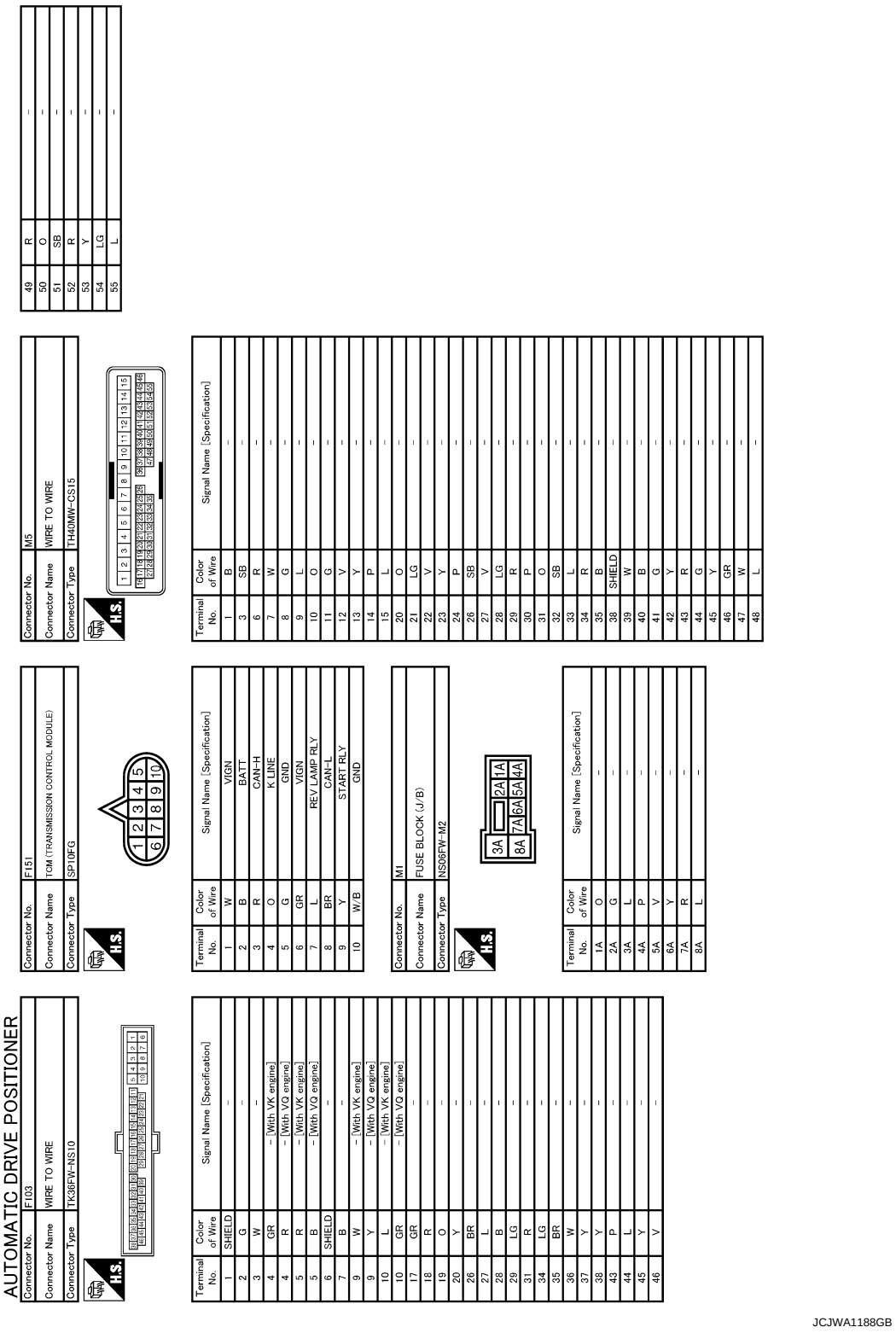

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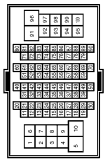
AUTOMATIC DRIVE POSITIONER

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	–
2	O	–
3	SB	–
4	LG	–
5	GR	–
6	W	–
7	G	–
8	W	–
9	P	–
10	BR	–
11	B	–
12	G	–
13	R	–
14	W	–
15	SHIELD	–
16	BR	–
17	L	–
18	P	–
19	G	–
20	W	– [With ICC]
20	GR	– [Without ICC]
21	BR	– [With ICC]
21	R	– [Without ICC]
22	R	– [With ICC]
22	L	– [Without ICC]
23	G	–
24	L	– [With ICC]
24	P	– [Without ICC]
25	Y	– [With ICC]
25	W	– [Without ICC]
26	SHIELD	–
28	GR	–
29	V	–
30	O	–
31	BR	–
32	W	–
33	Y	–
34	L	–
35	L	–
36	P	–
37	G	–
38	R	–
39	G	–
41	L	–
42	W	–
43	R	–
44	LG	–
45	GR	–
46	W	–
47	L	–
48	P	–
49	O	–
50	LG	–
51	SB	–
52	Y	–
53	O	–
54	BR	–
55	SB	–
56	P	–
59	SB	–
60	SB	–
61	V	–
62	P	–
63	R	–
64	L	–
65	O	–
66	L	–
69	V	–
70	SHIELD	–
71	O	–
72	GR	–
73	W	–
74	SB	–
76	V	–
77	V	–
78	Y	–
80	O	–
81	L	–
82	W	–
83	Y	–
84	L	–
85	P	–
86	BR	–
87	P	–
88	V	–
89	G	–
90	P	–
91	R	–
92	R	–
93	GR	–
94	L	–
95	G	–
96	W	–
100	Y	–

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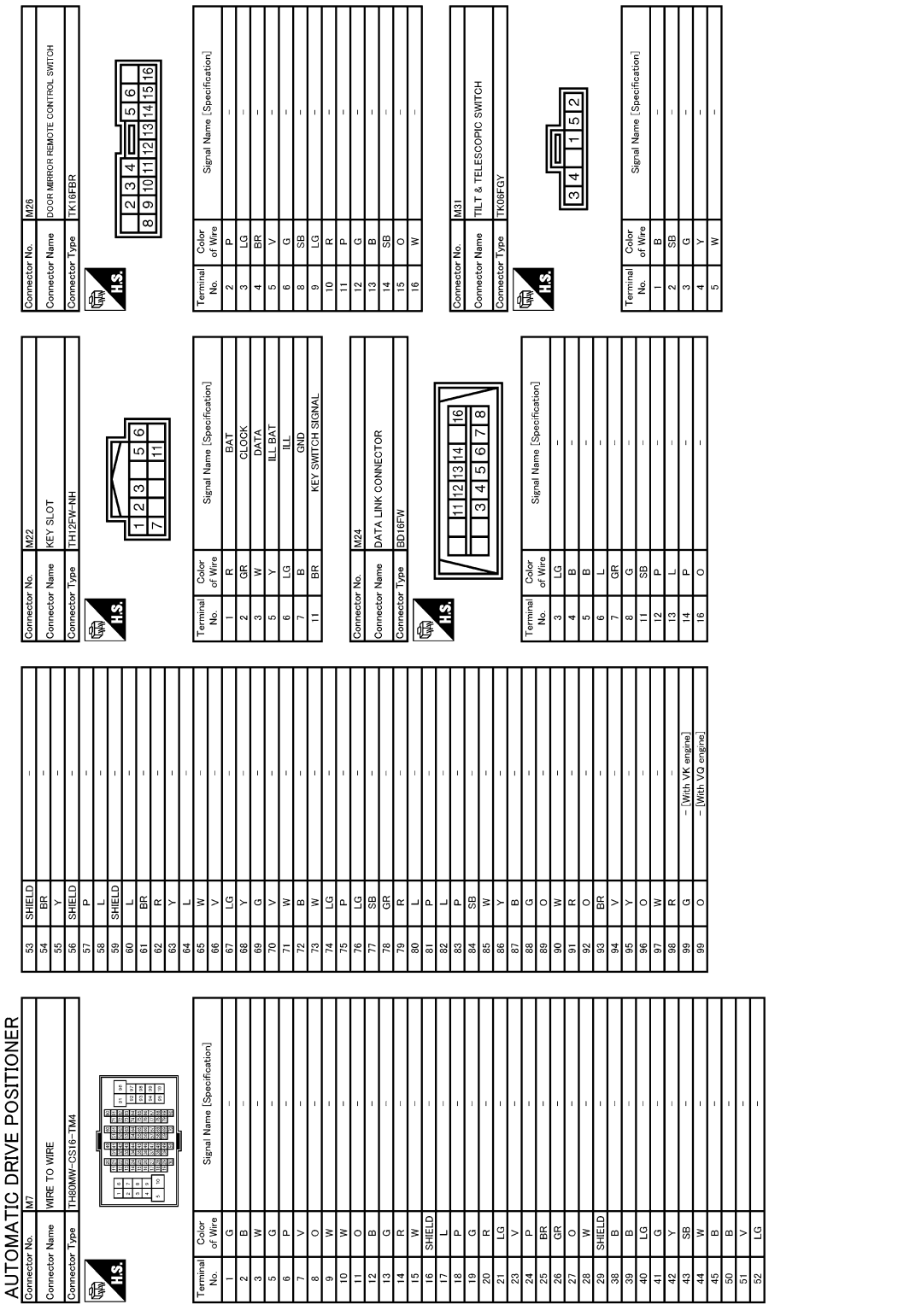

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AUTOMATIC DRIVE POSITIONER

Connector No.	M48
Connector Name	TILT & TELESCOPIC SENSOR
Connector Type	TK04FW

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–
2	P	–
3	LG	–
4	Y	–

Connector No.	M49
Connector Name	TILT & TELESCOPIC MOTOR
Connector Type	NS04FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	–
2	GR	–
3	O	–
4	L	–

Connector No.	M51
Connector Name	AUTOMATIC DRIVE POSITIONER CONTROL UNIT
Connector Type	TH32FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	TILT SW (UPWARD)
2	LG	MIRROR SELECT SW (RH)
3	G	MIRROR SW (UPWARD)
4	V	MIRROR SW (LEFTWARD)
5	R	MIRROR SENSOR (RH VERTICAL)
6	GR	MIRROR SENSOR (LH VERTICAL)
7	LG	TILT SENSOR
9	L	ADDRESS1
10	V	TX (UART)
11	SB	TELESCOPIC SW (FRONTWARD)
12	O	IND1
13	P	IND2
14	O	MIRROR MOTOR (RH VERTICAL)
15	GR	MIRROR MOTOR (RH HORIZONTAL)
16	Y	MIRROR MOTOR (LH COMMON)
17	W	TILT SW (DOWNWARD)
18	P	MIRROR SELECT SW (LH)
19	SB	MIRROR SW (DOWNWARD)
20	BR	MIRROR SW (RIGHTWARD)
21	L	MIRROR SENSOR (RH HORIZONTAL)
22	G	MIRROR SENSOR (LH HORIZONTAL)
23	P	TELESCOPIC SENSOR
24	R	SET SW
25	SB	ADDRESS2
26	Y	RX (UART)
27	G	TELESCOPIC SW (BACKWARD)
30	R	MIRROR MOTOR (RH COMMON)
31	LG	MIRROR MOTOR (LH VERTICAL)
32	L	MIRROR MOTOR (LH HORIZONTAL)

Connector No.	M52
Connector Name	AUTOMATIC DRIVE POSITIONER CONTROL UNIT
Connector Type	NS16FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
33	W	POWER SUPPLY (SENSOR)
34	R	BAT (FUSE)
35	L	TILT MOTOR (UPWARD)
36	GR	TELESCOPIC MOTOR (FORWARD)
39	W	BAT (C/B)

40	B	GND (SIGNAL)
41	Y	GND (SENSOR)
42	O	TILT MOTOR (DOWNWARD)
44	G	TELESCOPIC MOTOR (BACKWARD)
48	B	GND (POWER)

Connector No.	M62
Connector Name	CIRCUIT BREAKER
Connector Type	M02FW-P-LC

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–
2	W	–

Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH32FW-NH

41	42	43	44	45	46	47			53	54	55	56
57	58	59	60	61	62	63		65		69	70	71	72

Terminal No.	Color of Wire	Signal Name [Specification]
41	V	ACC POWER SUPPLY
42	Y	FUEL LEVEL SENSOR SIGNAL
43	R	INTAKE SENSOR SIGNAL
44	LG	IN-VEHICLE SENSOR SIGNAL
45	P	AMBIENT SENSOR SIGNAL
46	O	SUNLOAD SENSOR SIGNAL
47	V	GAS SENSOR SIGNAL
53	G	IGNITION POWER SUPPLY
54	O	BATTERY POWER SUPPLY
55	B	GROUND
56	L	CAN-H
57	W	BRAKE FLUID LEVEL SWITCH SIGNAL
58	B	FUEL LEVEL SENSOR GROUND

59	GR	INTAKE SENSOR GROUND
60	L	IN-VEHICLE SENSOR GROUND
61	BR	AMBIENT SENSOR GROUND
62	SB	SUNLOAD SENSOR GROUND
63	R	ION MODE SIGNAL
65	O	ECV SIGNAL
69	L	A/C LAN SIGNAL
70	R	EACH DOOR MOTOR POWER SUPPLY
71	B	GROUND
72	P	CAN-L

Connector No.	M72
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH16FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
3	V	ACC
4	R	ILL
5	R	ILL CONT
6	SB	AV COMM (H)
8	LG	AV COMM (L)
9	BR	SW GND
14	SB	DISK EJECT SIGNAL
16	G	HAZARD ON

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AUTOMATIC DRIVE POSITIONER

Connector No.	M116
Connector Name	WIRE TO WIRE
Connector Type	TK36MW-NS10

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	–
2	W	–
3	L	–
4	B	– [With VK engine]
4	R	– [With VQ engine]
5	R	– [With VK engine]
5	B	– [With VQ engine]
6	B	–
7	B	–
9	L	– [With VK engine]
9	R	– [With VQ engine]
10	R	–
17	LG	–
18	R	–
19	O	–
20	Y	–
26	V	–
27	L	–
28	B	–
29	LG	–
31	W	–
34	LG	–
35	BR	–
36	W	–
37	Y	–
38	O	–
43	P	–
44	L	–
45	G	–
46	Y	–

Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	M03FB-LC

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	BAT (F/L)
2	Y	POWER WINDOW POWER SUPPLY (BAT)
3	O	POWER WINDOW POWER SUPPLY (RAP)

Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FW-CS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
4	P	INT ROOM LAMP PWR SUPPLY (BAT SAVE)
5	V	PASSENGER DOOR UNLOCK OUTPUT
7	Y	STEP LAMP OUTPUT
8	V	ALL DOOR, FUEL LID LOCK OUTPUT
9	G	DRIVER DOOR, FUEL LID UNLOCK OUTPUT
10	BR	REAR DOOR UNLOCK OUTPUT
11	R	BAT (FUSE)
13	B	GND
15	Y	ACC IND
17	W	TURN SIGNAL RH (FRONT)
18	O	TURN SIGNAL LH (FRONT)
19	SB	ROOM LAMP TIMER

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
72	R	ROOM ANT2-
73	G	ROOM ANT2+
74	SB	PASSENGER DOOR ANT-
75	BR	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT-
77	LG	DRIVER DOOR ANT+
78	Y	ROOM ANT1-
79	BR	ROOM ANT1+
80	GR	NATS ANT AMP.
81	W	NATS ANT AMP.
82	P	IGN RELAY (F/B) CONT
83	GR	KEYLESS ENTRY RECEIVER SIGNAL
87	BR	COMBI SW INPUT 5
88	V	COMBI SW INPUT 3
89	SB	PUSH SW
90	P	CAN-L
91	L	CAN-H
92	LG	KEY SLOT ILL
93	V	ON IND
95	O	ACC RELAY CONT
96	GR	A/T SHIFT SELECTOR POWER SUPPLY
97	L	S/L CONDITION 1
98	P	S/L CONDITION 2
99	R	SHIFT P
100	G	PASSENGER DOOR REQUEST SW
101	SB	DRIVER DOOR REQUEST SW
102	O	BLOWER FAN MOTOR RELAY CONT
103	BR	KEYLESS ENTRY RECEIVER POWER SUPPLY
106	W	S/L UNIT POWER SUPPLY
107	LG	COMBI SW INPUT 1
108	R	COMBI SW INPUT 4
109	Y	COMBI SW INPUT 2
110	G	HAZARD SW
111	GR	S/L UNIT COMM

Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FG-NH

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
112	GR	RAIN SENSOR SERIAL LINK
113	P	OPLICAL SENSOR
116	BR	STOP LAMP SW 1
118	P	STOP LAMP SW 2
119	SB	DR DOOR UNLOCK SENSOR
121	BR	KEY SLOT SW
123	W	IGN F/B
124	LG	PASSENGER DOOR SW
132	O	POWER WINDOW SW COMM
134	GR	LOCK IND
137	B	RECEIVER/SENSOR GND
138	Y	SENSOR POWER SUPPLY
140	R	SHIFT N/P
141	G	SECURITY INDICATOR OUTPUT
142	O	COMBI SW OUTPUT 5
143	P	COMBI SW OUTPUT 1
144	G	COMBI SW OUTPUT 2
145	L	COMBI SW OUTPUT 3
146	SB	COMBI SW OUTPUT 4
150	GR	DRIVER DOOR SW
151	G	REAR WINDOW DEFOGGER RELAY CONT

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AUTOMATIC DRIVE POSITIONER

Connector No.	M124
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15

H.S.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
46	47	48	49	50	51	52	53	54	55	56	57	58	59	60

Terminal No.	Color of Wire	Signal Name [Specification]
3	Y	–
4	LG	–
5	SB	–
6	BR	–
7	G	–
8	V	–
9	LG	–
13	B	–
14	O	–
15	Y	–
19	G	–
20	LG	–
21	SHIELD	–
22	W	–
23	B	–
24	G	–
25	Y	–
26	R	–
31	O	–
32	Y	–
33	LG	–
34	SB	–
35	V	–
36	O	–
37	GR	–
38	R	– [With automatic drive positioner]
38	G	– [Without automatic drive positioner]
39	B	–
40	R	–
41	P	–
42	LG	–
43	L	–
44	Y	–
45	R	–
46	W	–

Connector No.	M137
Connector Name	A/T SHIFT SELECTOR
Connector Type	TH12FW-NH

H.S.

1	2	3	4	5	6
7	8	9	10	11	

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–
2	V	–
3	L	–
4	B	–
5	G	–
7	O	–
8	SB	–
9	B	–
10	GR	–
11	R	–

Connector No.	M144
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH

H.S.

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

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–
2	Y	–
3	R	–
5	W	–
6	R	–
7	Y	–
11	SHIELD	–
12	W	– [With around view monitor]
12	B	– [Without around view monitor]

Connector No.	M202
Connector Name	AV CONTROL UNIT
Connector Type	TH24FW-NH

H.S.

36	37	38	39	40	41	42	43	44	45	46	47
48	49	50	51	52	53				57	58	

Terminal No.	Color of Wire	Signal Name [Specification]
36	O	SIGNAL VCC
37	LG	SIGNAL GND
38	R	HP
39	BR	COMM (DISP->CONT)
40	B	RGB AREA (YS) SIGNAL
41	SHIELD	SHIELD
42	G	RGB SYNC
43	B	RGB (R:RED) SIGNAL
44	W	RGB (G:GREEN) SIGNAL
45	R	RGB (B:BLUE) SIGNAL
46	V	COMPOSITE IMAGE SIGNAL GND
47	SB	COMPOSITE IMAGE SIGNAL
48	Y	INVERTER VCC
49	BR	INVERTER GND
50	W	VP
51	Y	COMM (CONT->DISP)
52	SHIELD	SHIELD
57	SHIELD	SHIELD
58	SHIELD	SHIELD

Connector No.	M204
Connector Name	AV CONTROL UNIT
Connector Type	TH32FW-NH

H.S.

76	77	78	79	80	81	82		84	85	86	87	88	89	91
92	93	94	95	96		98	100	101	103	104	105	106	107	108

Terminal No.	Color of Wire	Signal Name [Specification]
76	LG	AV COMM (L)
77	SB	AV COMM (H)
78	LG	AV COMM (L)

79	SB	AV COMM (H)
80	P	CAN-L
81	L	CAN-H
82	BR	SW GND
86	SHIELD	SHIELD
87	L	TEL VOICE SIGNAL (+)
88	P	TEL VOICE SIGNAL (–)
92	R	VEHICLE SPEED SIGNAL (8-PULSE)
93	V	PARKING BRAKE SIGNAL
94	O	REVERSE SIGNAL
95	G	IGNITION SIGNAL
96	SB	DISK EJECT SIGNAL
102	B	AUX SOUND SIGNAL GND
103	W	AUX SOUND SIGNAL LH (+)
104	R	AUX SOUND SIGNAL RH (+)

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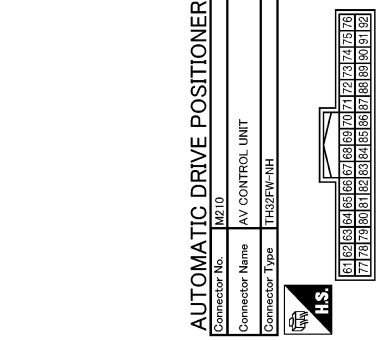
AUTOMATIC DRIVE POSITIONER

Connector No.	M210
Connector Name	AV CONTROL UNIT
Connector Type	TH32FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
64	GR	DRIVER DOOR SW SIGNAL
65	V	PARKING BRAKE SIGNAL
67	B	COMPOSITE IMAGE SIGNAL GND
68	R	COMPOSITE IMAGE SIGNAL
71	SHIELD	MICROPHONE SHIELD
72	G	MICROPHONE VCC
73	R	COMM (CONT->DISP)
74	P	CAN-L
75	LG	AV COMM (L)
76	LG	AV COMM (L)
79	R	ILLUMINATION
80	G	IGNITION SIGNAL
81	O	REVERSE SIGNAL
82	R	VEHICLE SPEED SIGNAL (8-PULSE)
83	SHIELD	SHIELD
84	W	COMPOSITE IMAGE SYNC SIGNAL
87	R	MICROPHONE SIGNAL
88	SHIELD	SHIELD
89	G	COMM (DISP->CONT)
90	L	CAN-H
91	SB	AV COMM (H)
92	SB	AV COMM (H)

JCJWA1194GB

SYMPTOM DIAGNOSIS

DOOR MIRROR DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000005236549

1.CHECK AUTOMATIC DRIVE POSITIONER SYSTEM

Check door mirror operation with automatic drive positioner system.

Is the inspection result normal?

YES >> GO TO 2.
NO >> Check automatic drive positioner system operation. Refer to ADP-13, "AUTOMATIC DRIVE POSITIONER SYSTEM : System Diagram"

2.CHECK DOOR MIRROR REMOTE CONTROL SWITCH (MIRROR SWITCH)

Check mirror switch.
Refer to MIR-11, "MIRROR SWITCH : Component Function Check"

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

3.CHECK DOOR MIRROR REMOTE CONTROL SWITCH (CHANGEOVER SWITCH)

Check changeover switch.
Refer to MIR-13, "CHANGEOVER SWITCH : Component Function Check"

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace the malfunctioning parts.

4.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident"
NO >> GO TO 1.

REVERSE INTERLOCK DOOR MIRROR DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000005236550

1.CHECK DOOR MIRROR (MANUAL FUNCTION)

Check door mirror function with door mirror remote control switch.

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace the malfunctioning parts.

2.CHECK DTC

Check DTC for TCM.
Refer to TM-62, "CONSULT-III Function (TRANSMISSION)"

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

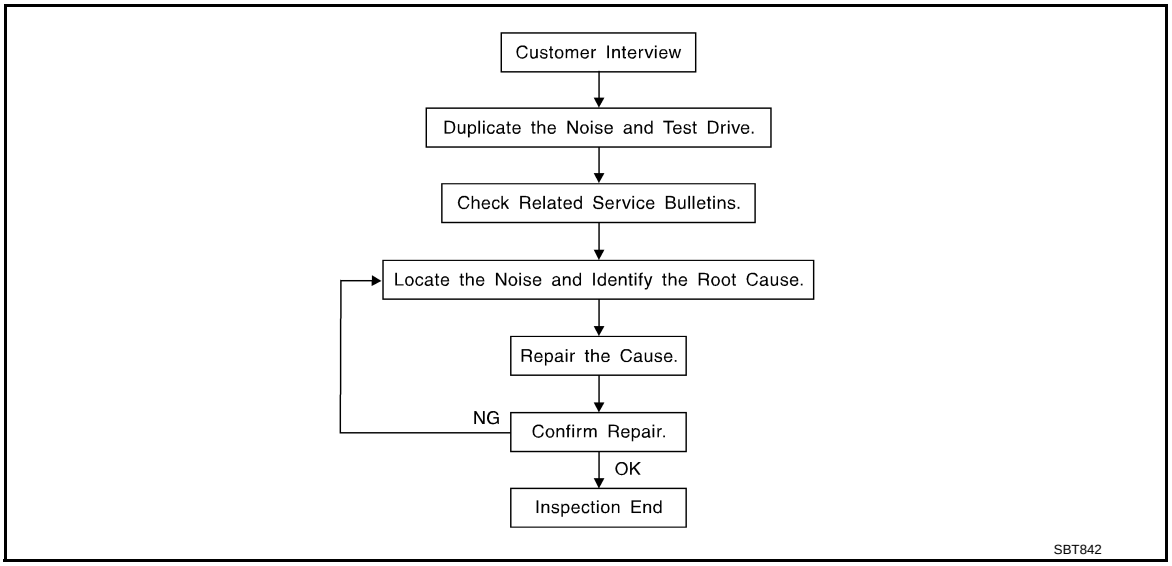
Is the result normal?

YES >> Check intermittent incident. Refer to GI-36, "Intermittent Incident"
NO >> GO TO 1.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:0000000005236551



CUSTOMER INTERVIEW

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any of customer's comments; refer to MIR-72, "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, perform a diagnosis and repair the noise that the customer is concerned about. This can be accomplished by performing a cruise test on the vehicle with the customer.
- After identifying the type of noise, isolate the noise in terms of its characteristics. The noise characteristics are provided so the customer, service adviser and technician are all speaking the same language when defining the noise.
- Squeak – (Like tennis shoes on a clean floor)
  Squeak characteristics include the light contact/fast movement/brought on by road conditions/hard surfaces = higher pitch noise/softer surfaces = lower pitch noises/edge to surface = chirping
- Creak – (Like walking on an old wooden floor)
  Creak characteristics include firm contact/slow movement/twisting with a rotational movement/pitch dependent on materials/often brought on by activity.
- Rattle – (Like shaking a baby rattle)
  Rattle characteristics include the fast repeated contact/vibration or similar movement/loose parts/missing clip or fastener/incorrect clearance.
- Knock – (Like a knock on a door)
  Knock characteristics include hollow sounding/sometimes repeating/often brought on by driver action.
- Tick – (Like a clock second hand)
  Tick characteristics include gentle contacting of light materials/loose components/can be caused by driver action or road conditions.
- Thump – (Heavy, muffled knock noise)
  Thump characteristics include softer knock/dead sound often brought on by activity.
- Buzz – (Like a bumblebee)
  Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending up on the person. A noise that a technician 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 the repair is reconfirmed.

If the noise can be duplicated easily during the test drive, to help identify the source of the noise, try to duplicate the noise with the vehicle stopped by doing one or all of the following:

1) Close a door.
2) Tap or push/pull around the area where the noise appears to be coming from.
3) Rev the engine.
4) Use a floor jack to recreate vehicle “twist”.
5) At idle, apply engine load (electrical load, half-clutch on M/T models, drive position on A/T models).
6) Raise the vehicle on a hoist and hit a tire with a rubber hammer.

- Drive the vehicle and attempt to duplicate the conditions the customer states exist when the noise occurs.
- If it is difficult to duplicate the noise, drive the vehicle slowly on an undulating or rough road to stress the vehicle body.

CHECK RELATED SERVICE BULLETINS

After verifying the customer concern or symptom, check ASIST for Technical Service Bulletins (TSBs) related to that concern or symptom.
If a TSB relates to the symptom, follow the procedure to repair the noise.

LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Chassis ear: J-39570, Engine ear and mechanics stethoscope).
2. Narrow down the noise to a more specific area and identify the cause of the noise by:

- Removing the components in the area that is are suspected to be the cause of the noise.
  Do not use too much force when removing clips and fasteners, otherwise clips and fastener can be broken or lost during the repair, resulting in the creation of new noise.
- Tapping or pushing/pulling the component that is are suspected to be the cause of 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 by hand by touching the component(s) that is are suspected to be the cause of the noise.
- Placing a piece of paper between components that are suspected to be the cause of the noise.
- Looking for loose components and contact marks.
  Refer to MIR-70, "Inspection Procedure".

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 the authorized Nissan Parts Department.

CAUTION:
Never use excessive force as many components are constructed of plastic and may be damaged.
NOTE:
Always check with the Parts Department for the latest parts information.
The following materials are contained in the Nissan Squeak and Rattle Kit (J-43980). Each item can be ordered separately as needed.
URETHANE PADS [1.5 mm (0.059 in) thick]
Insulates connectors, harness, etc.
76268-9E005: 100 × 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 × 1.97in)
FELT CLOTHTAPE
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 in place of UHMW tape that is be visible or does not fit. Will only last a few months.
SILICONE SPRAY
Used when grease cannot be applied.
DUCT TAPE
Used to eliminate movement.

CONFIRM THE REPAIR

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

Inspection Procedure

INFOID:0000000005236552

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

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

1. The cluster lid A and instrument panel
2. Acrylic lens and combination meter housing
3. Instrument panel to front pillar garnish
4. Instrument panel to windshield
5. Instrument panel mounting pins
6. Wiring harnesses behind the combination meter
7. A/C defroster duct and duct joint
   These incidents can usually be located by tapping or moving the components to duplicate the noise or by pressing on the components while driving to stop the noise. Most of these incidents can be repaired by applying felt cloth tape or silicon spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness.
   CAUTION:
   Never use silicone spray to isolate a squeak or rattle. If the area is saturated with silicone, the recheck of repair becomes impossible.

CENTER CONSOLE

Components to pay attention to include:

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

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

DOORS

Pay attention to the following:

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. The areas can usually be insulated 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 customer.
In addition look for the following:

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

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

SUNROOF/HEADLINING

Noises in the sunroof/headlining area can often be traced to one of the following:

1. Sunroof lid, rail, linkage or seals making a rattle or light knocking noise
2. Sunvisor shaft shaking in the holder
3. Front or rear windshield touching headlining and squeaking

Again, pressing on the components to stop the noise while duplicating the conditions can isolate most of these incidents. Repairs usually consist of insulating with felt cloth tape.

SEATS

When isolating seat noise it's important to note the position the seats in and the load placed on the seat when the noise occurs. 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 mounted to the engine wall
2. Components that pass through the engine wall
3. Engine wall mounts and connectors
4. Loose radiator mounting pins
5. Hood bumpers out of adjustment
6. Hood striker out of adjustment

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

Diagnostic Worksheet

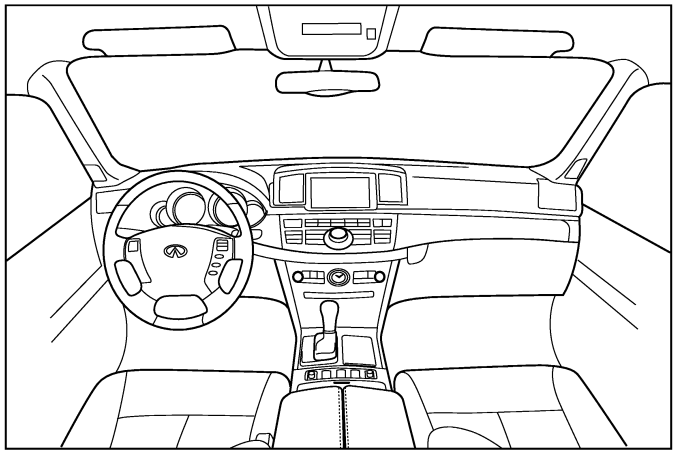
INFOID:0000000005236553

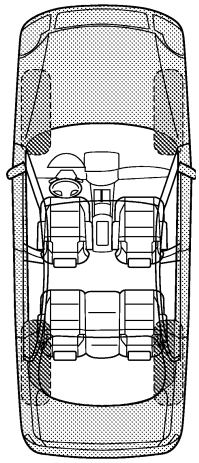
INFINITI

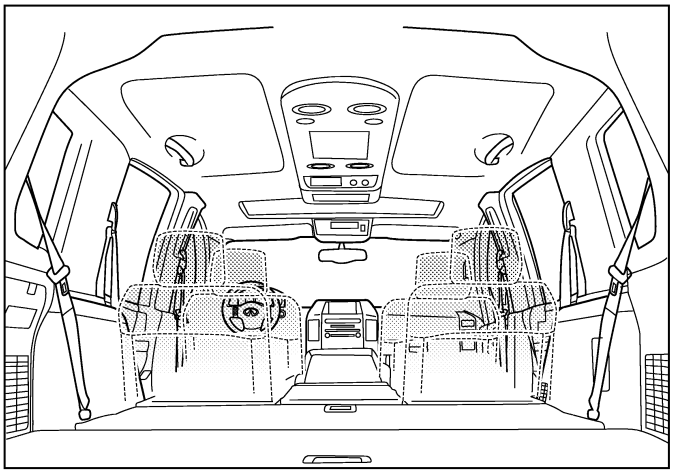
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

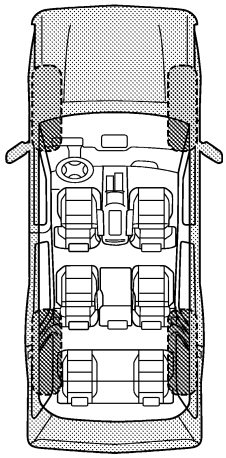
Dear Infiniti Customer:
We are concerned about your satisfaction with your Infiniti vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your Infiniti right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under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

I. WHERE DOES THE NOISE COME FROM? (circle the area of the vehicle)
The illustrations are for reference only, and may not reflect the actual configuration of your vehicle.









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

PIIB8741E

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

PIIB8742E

PRECAUTION

PRECAUTIONS

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

INFOID:0000000005236554

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

WARNING:

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

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

WARNING:

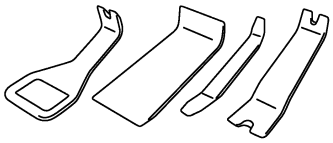
- **When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious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

PREPARATION

PREPARATION

Commercial Service Tools

INFOID:0000000005236555

Tool name	Description
Remover tool  PIIB7923J	Removes the clips, pawls and metal clips

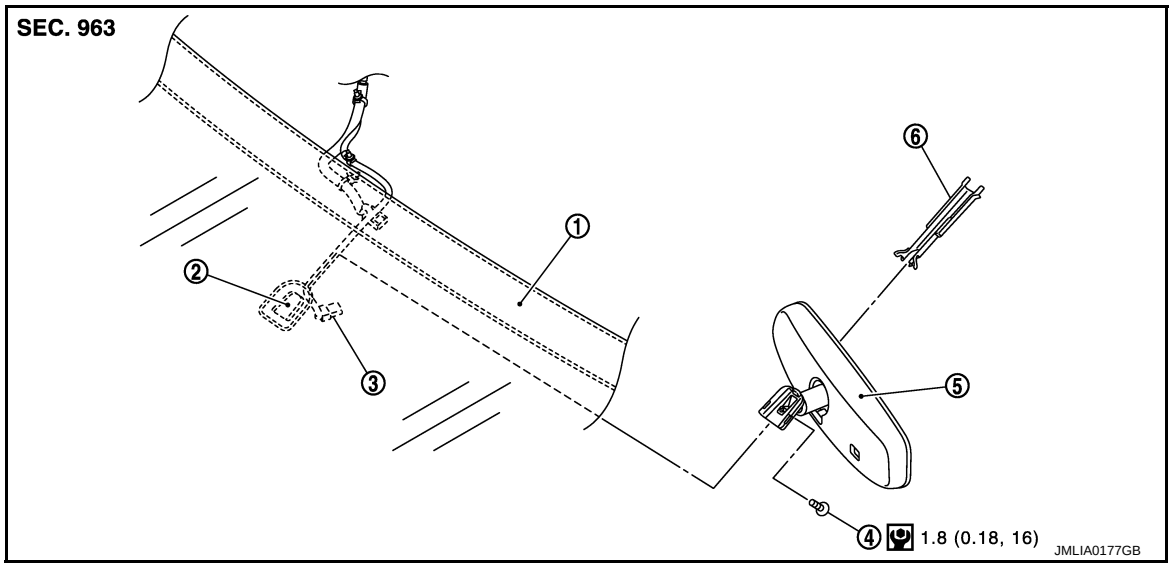
REMOVAL AND INSTALLATION

INSIDE MIRROR

Exploded View

INFOID:0000000005236556

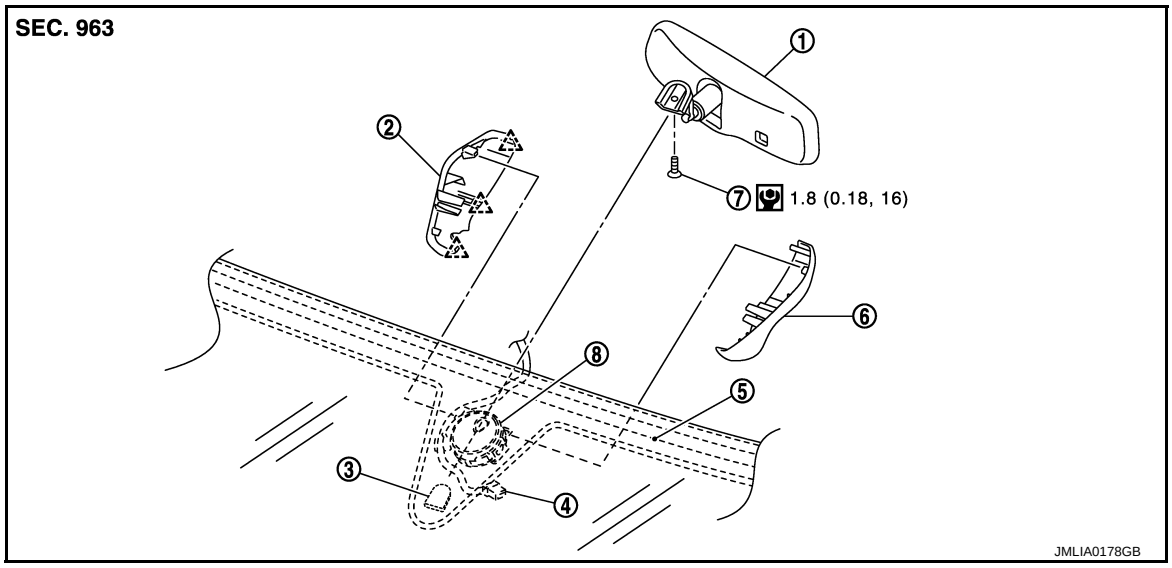
Base model



1. Windshield glass
2. Mirror base
3. Harness connector
4. TORX bolt
5. Inside mirror
6. Inside mirror cover

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

Option model



1. Inside mirror
2. Rain sensor cover RH
3. Mirror base
4. Harness connector
5. Windshield glass
6. Rain sensor cover LH
7. TORX bolt
8. Rain sensor

△ : Pawl

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

Removal and Installation

INFOID:0000000005236557

REMOVAL

Base model

1. Remove the inside mirror cover.
2. Remove TORX bolt.
3. Disconnect harness connector from inside mirror.
4. Slide the inside mirror upward to remove.

Option model

1. Remove the rain sensor cover (LH/RH).
2. Disconnect harness connector from inside mirror.
3. Loosen TORX bolt and slide inside mirror upward to remove.

INSTALLATION

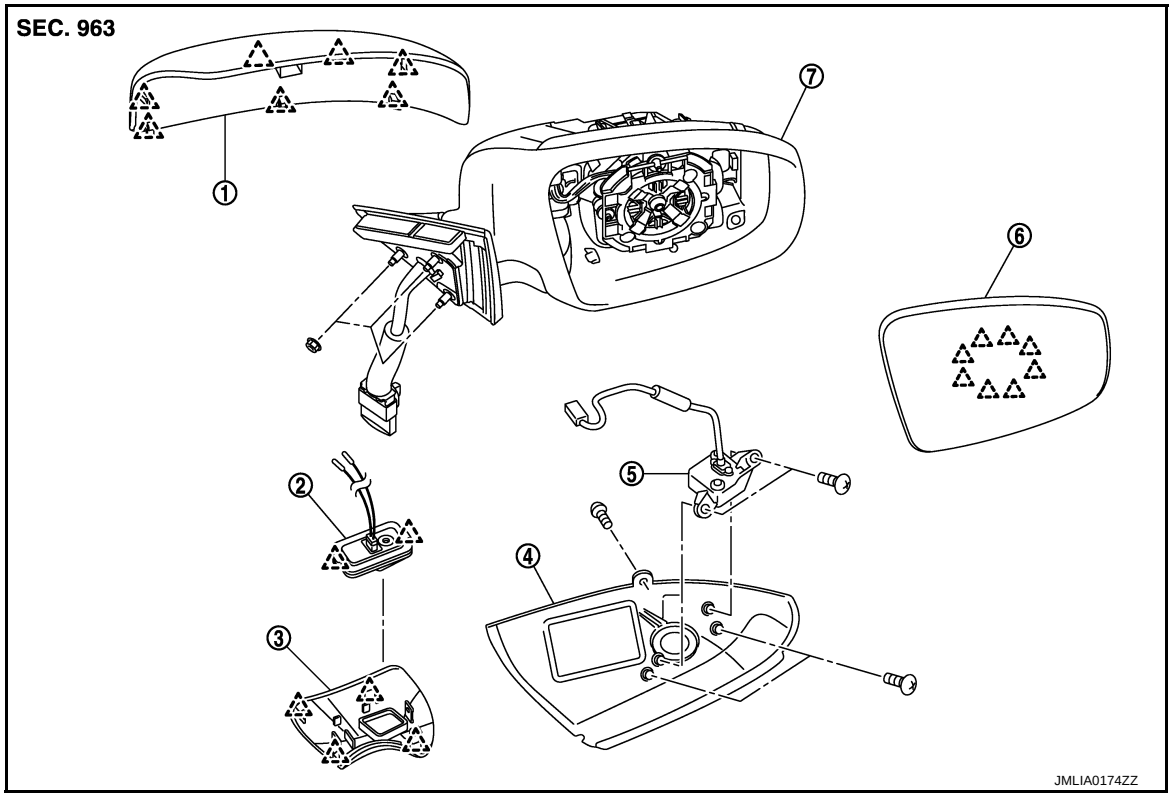
Install in the reverse order of removal.

OUTSIDE MIRROR

DOOR MIRROR ASSEMBLY

DOOR MIRROR ASSEMBLY : Exploded View

INFOID:0000000005236558



1. Door mirror cover
2. Puddle lamp
3. Base cover
4. Side camera finisher assembly (with side camera model)
5. Side camera assembly (with side camera model)
6. Glass mirror
7. Mirror assembly

: Pawl

DOOR MIRROR ASSEMBLY : Removal and Installation

INFOID:0000000005236559

REMOVAL

1. Remove front door finisher. Refer to INT-11, "Removal and Installation".
2. Remove front door sash inner cover. Refer to GW-18, "Exploded View".
3. Disconnect door mirror harness connector.
4. Remove door mirror mounting nuts, and remove door mirror assembly.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Perform camera image calibration. Refer to AV-462, "CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR) : Description".

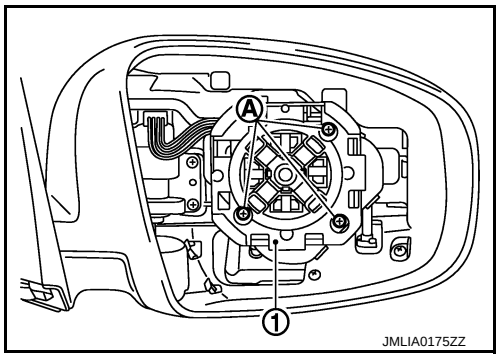
DOOR MIRROR ASSEMBLY : Disassembly and Assembly

INFOID:0000000005236560

DISASSEMBLY

1. Remove door mirror assembly. Refer to MIR-78, "DOOR MIRROR ASSEMBLY : Removal and Installation".

2. Remove glass mirror. Refer to MIR-80, "GLASS MIRROR : Disassembly and Assembly".
3. Remove door mirror cover. Refer to MIR-81, "DOOR MIRROR COVER : Disassembly and Assembly".
4. Remove screws (A) and connector, and then remove actuator (1).



5. Remove side camera and LED lamp.
   - Side camera LH: Refer to AV-585, "Removal and Installation".
   - Side camera RH: Refer to AV-587, "Removal and Installation".
6. Remove base cover and puddle lamp.

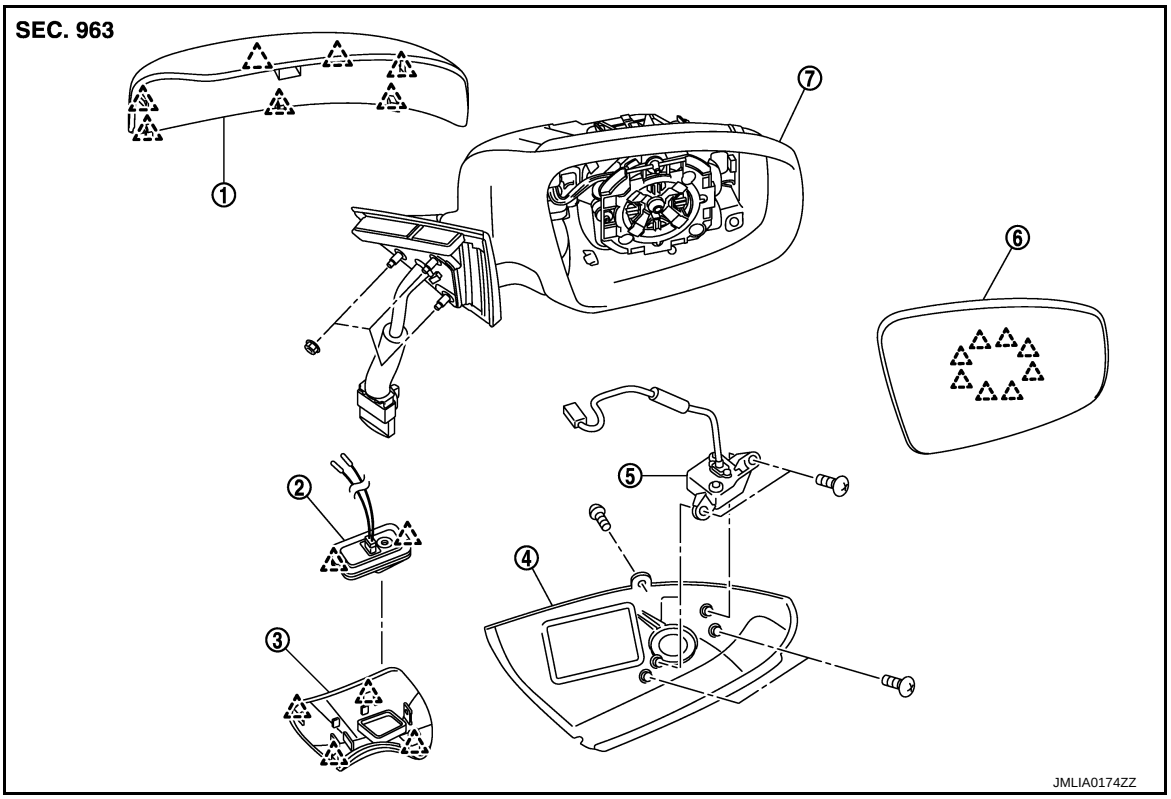
ASSEMBLY

Assemble in the reverse order of disassembly.

GLASS MIRROR

GLASS MIRROR : Exploded View

INFOID:0000000005236561



1. Door mirror cover
2. Puddle lamp
3. Base cover
4. Side camera finisher assembly (with side camera model)
5. Side camera assembly (with side camera model)
6. Glass mirror
7. Mirror assembly

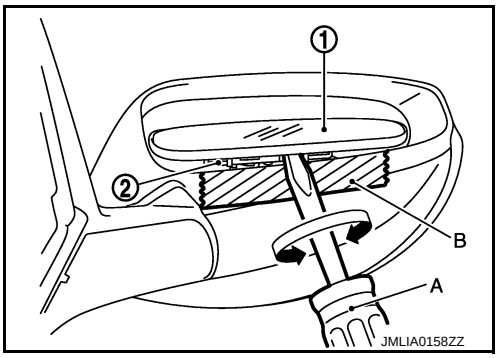
: Pawl

GLASS MIRROR : Disassembly and Assembly

INFOID:0000000005236562

DISASSEMBLY

1. Place the glass mirror upward.
2. Put a strip of protective tape (B) on housing assembly.
3. As shown in the figure, insert a small flat-bladed screwdriver (A) between glass mirror (1) and actuator (2). Push up both pawls simultaneously to remove glass mirror lower half side.
   NOTE:
   Insert flat-bladed screwdriver into recesses, and push up while rotating (twisting) to make work easier.



4. Remove two terminals of mirror heater attachment.
5. Lightly lift up lower side of glass mirror, and detach both pawls of upper side as if pulling it out to disassemble glass mirror from actuator.
   NOTE:
   Be careful not to allow grease on sealing agent in center of mirror or back side of glass mirror.

ASSEMBLY

Assemble in the reverse order of disassembly.

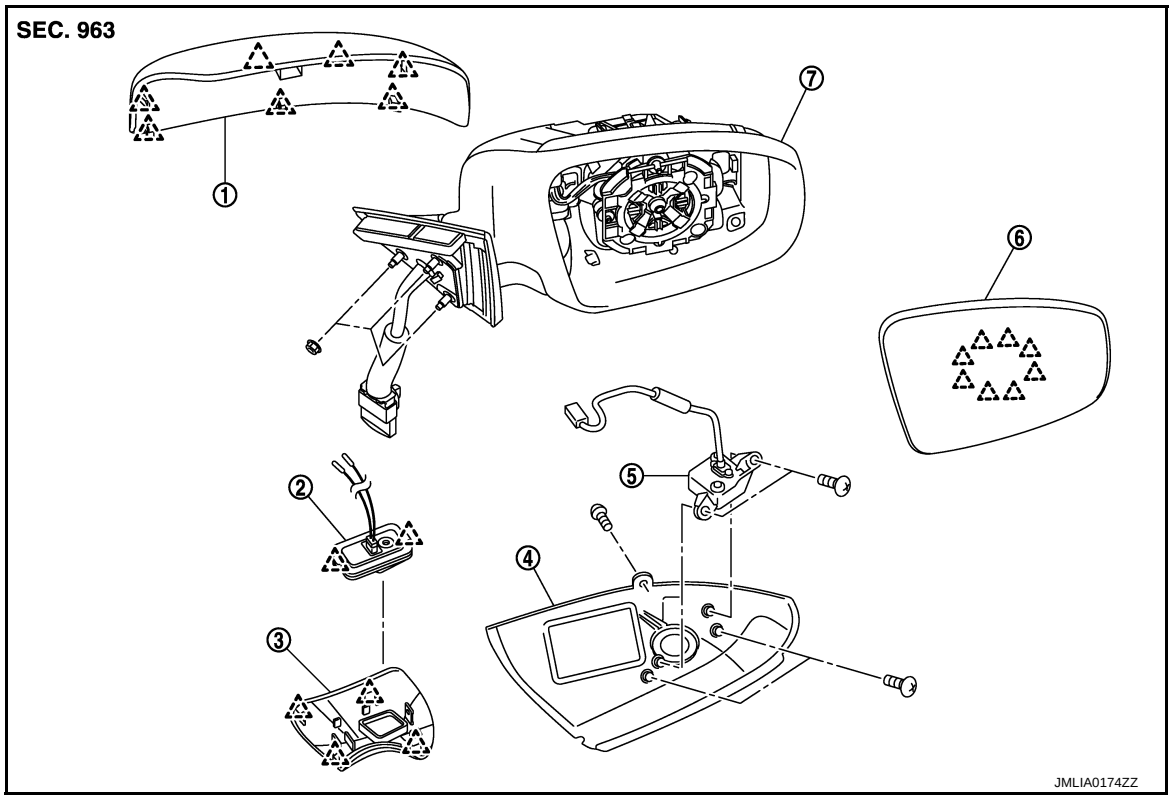
CAUTION:

After installation, visually check that pawls are securely engaged.

DOOR MIRROR COVER

DOOR MIRROR COVER : Exploded View

INFOID:0000000005236563



1. Door mirror cover
2. Puddle lamp
3. Base cover
4. Side camera finisher assembly (with side camera model)
5. Side camera assembly (with side camera model)
6. Glass mirror
7. Mirror assembly

: Pawl

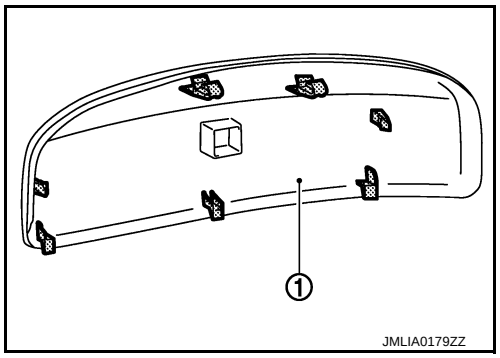
DOOR MIRROR COVER : Disassembly and Assembly

INFOID:0000000005236564

CAUTION:
Never damage the mirror bodies.

DISASSEMBLY

1. Remove the glass mirror. Refer to MIR-80, "GLASS MIRROR : Disassembly and Assembly".
2. Remove the pawls, and disassemble the door mirror cover (1) from the mirror assembly.



ASSEMBLY

Assemble in the reverse order of disassembly.

CAUTION:
After installation, visually check that pawls are securely engaged.

DOOR MIRROR REMOTE CONTROL SWITCH

Exploded View

INFOID:0000000005236565

Refer to INT-14, "Exploded View"

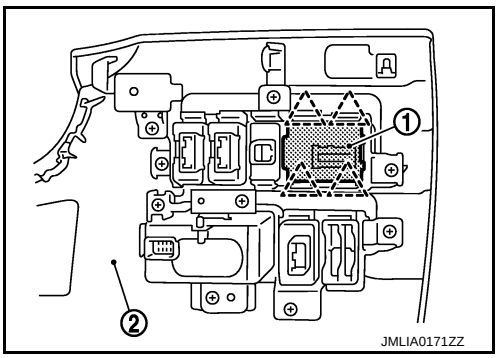
Removal and Installation

INFOID:0000000005236566

REMOVAL

1. Remove the instrument lower panel LH. Refer to INT-11, "Exploded View".
2. Remove door mirror remote control switch (1) from instrument lower panel LH (2) a using flat-bladed screwdriver.

: Pawl



INSTALLATION

Install in the reverse order of removal.

SYSTEM DESCRIPTION

DOOR MIRROR SYSTEM

Component Description

INFOID:0000000005236567

Component		Function
Door mirror remote control switch	Mirror switch	It supplies power to mirror motor through mirror switch and changeover switch.
	Changeover switch	It transmits the LH/RH control of door mirror that supplies power.
	Open/close switch	Power is supplied to folding mirror from door remote control switch when operating switch.
Door mirror	Door mirror motor	It makes mirror face operate from side to side and up and down via integrated motor.
	Folding motor	The door mirror operates because power is received from power supply when pressing door mirror remote control switch.

INSIDE MIRROR SYSTEM

System Description

INFOID:0000000005236568

The sensor built in inside mirror detects the brightness of headlight of the vehicle behind and automatically changes the light transmission to decrease the brightness.

Component Description

INFOID:0000000005236569

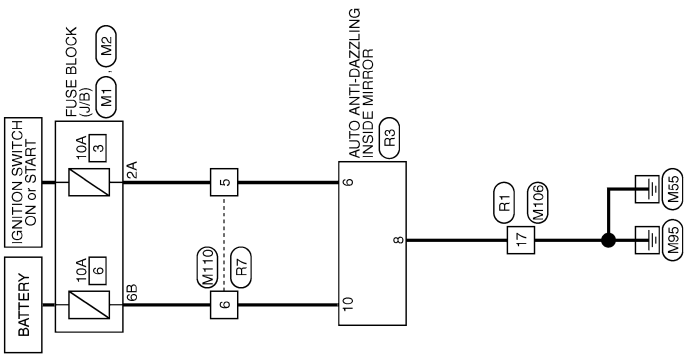
Component	Function
Auto anti-dazzling inside mirror	It automatically changes the light transmittance according to the brightness of the light from the headlight of the vehicle behind.

DTC/CIRCUIT DIAGNOSIS

AUTO ANTI-DAZZLING INSIDE MIRROR SYSTEM

Wiring Diagram - INSIDE MIRROR SYSTEM -

INFOID:0000000005628668



INSIDE MIRROR

2009/07/29

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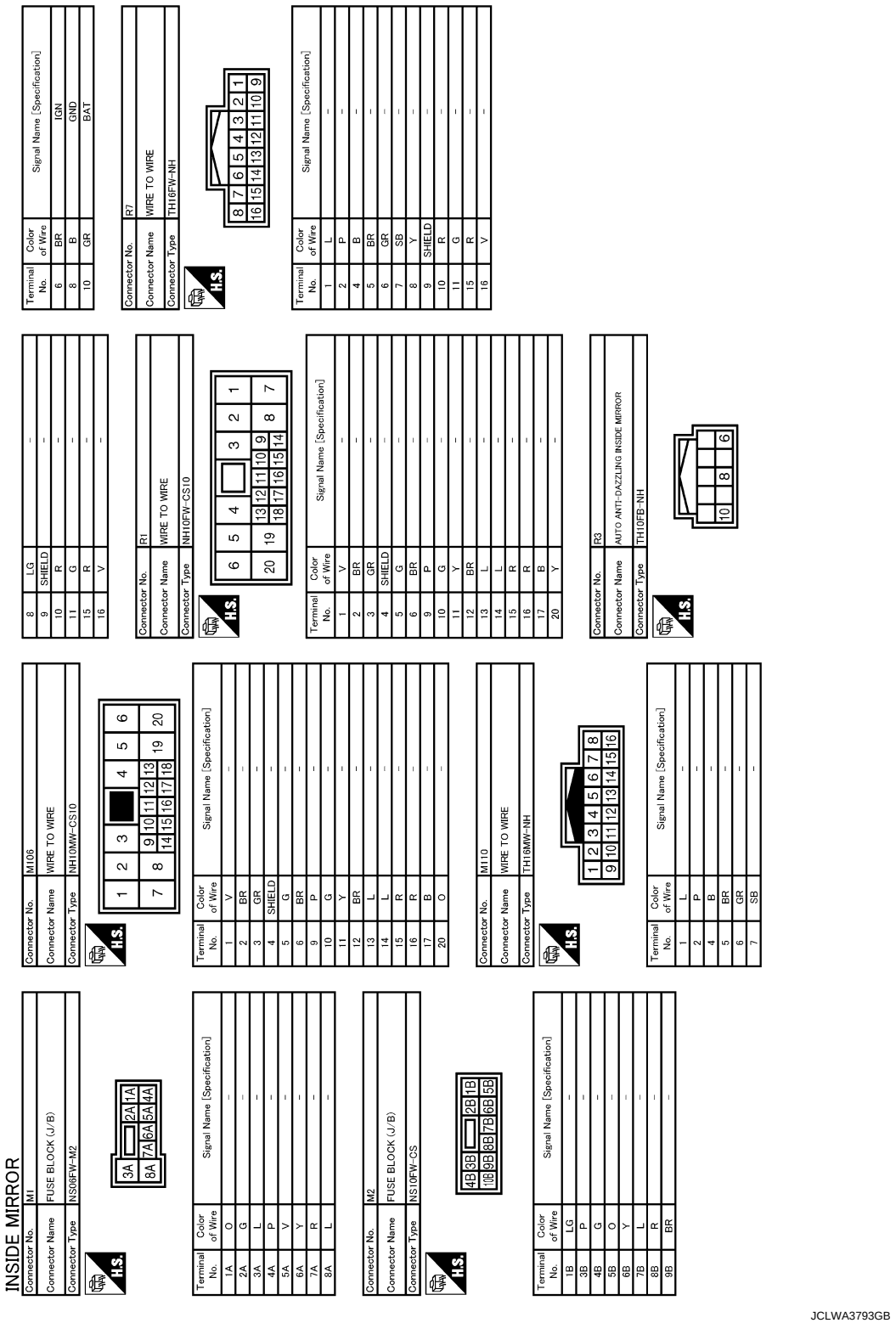

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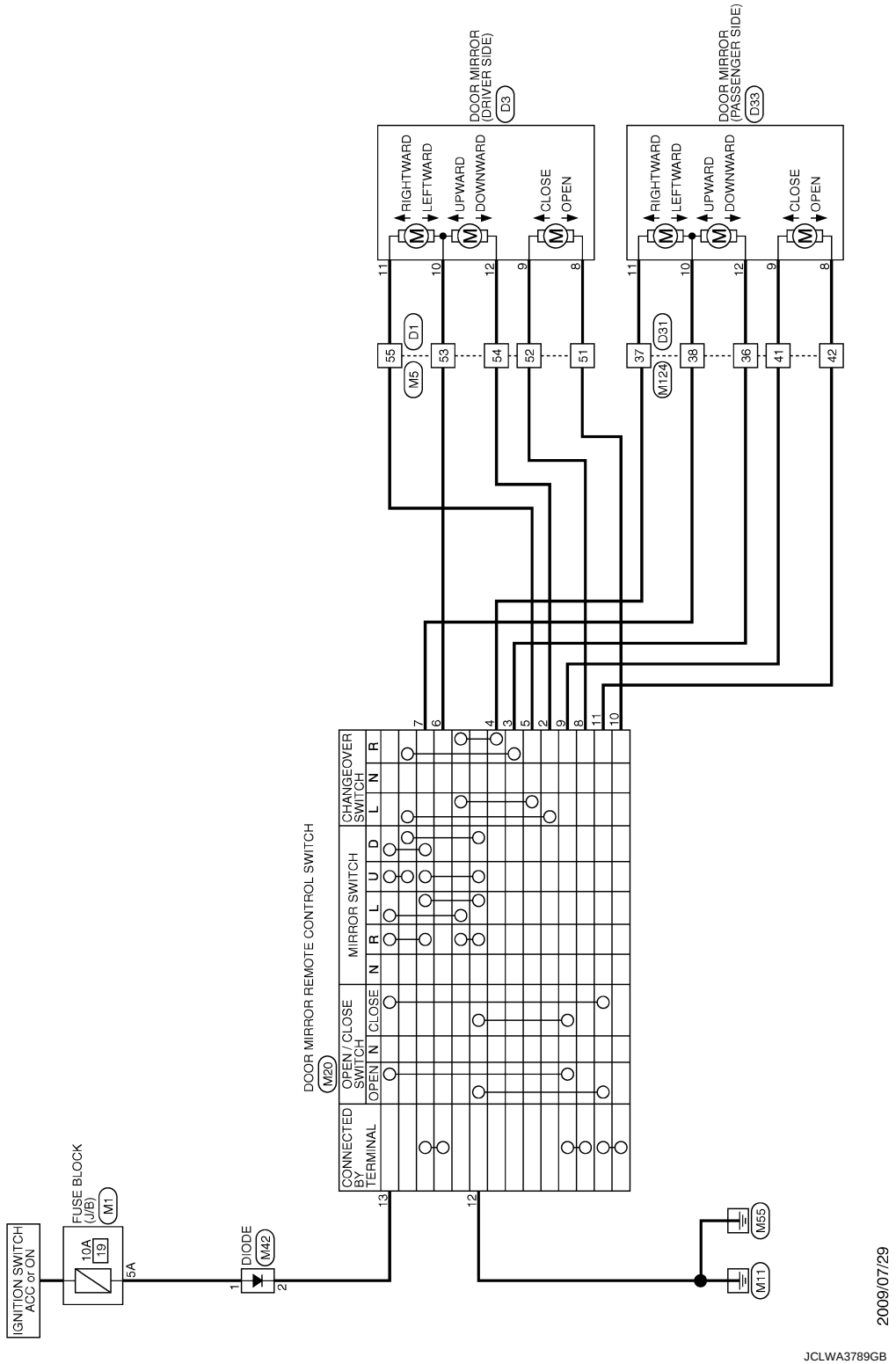
MIRROR SYSTEM

Wiring Diagram - MIRROR SYSTEM -

INFOID:0000000005236571

DOOR MIRROR (WITHOUT AUTOMATIC DRIVE POSITIONER)



2009/07/29

DOOR MIRROR (WITHOUT AUTOMATIC DRIVE POSITIONER)

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15

H.S.

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
48	47	46	45	44	43	42	41	40	39	38	37	36	35	34
33	32	31	30	29	28	27	26	25	24	23	22	21	20	19

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	–
3	G	–
6	GR	–
7	W	–
8	SB	–
9	BR	–
10	O	–
11	R	–
12	LG	–
13	Y	–
14	P	–
15	L	–
20	V	–
21	Y	–
22	GR	–
23	SB	–
24	LG	–
26	G	–
27	V	–
28	P	–
29	Y	–
30	LG	–
31	O	–
32	BR	–
33	L	–
34	GR	–
35	B	–
38	SHIELD	–
39	W	–
40	BR	–
41	L	–
42	Y	–
43	R	–
44	BR	–
45	V	–
46	P	–
47	W	–
48	GR	–

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15

49	R	–
50	B	–
51	SB	–
52	L	–
53	G	–
54	O	–
55	GR	–

Connector No.	D3
Connector Name	DOOR MIRROR (DRIVER SIDE)
Connector Type	TH24MW-NH

H.S.

12	11	10	9	8	7	6	5	4	3	2	
24	23	22	21		19	18	17				14

Terminal No.	Color of Wire	Signal Name [Specification]
2	R	–
3	W	SIDE CAMERA LH COMM
5	Y	SIDE CAMERA LH IMAGE SIGNAL
6	R	SIDE CAMERA LH POWER SUPPLY
7	GR	–
8	SB	–
9	L	–
10	G	–
11	GR	–
12	O	–
14	B	–
17	L	SIDE CAMERA LH IMAGE GND
18	BR	SIDE CAMERA LH GND
19	B	–
21	P	–
22	BR	–
23	W	–
24	V	–

Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15

H.S.

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
48	47	46	45	44	43	42	41	40	39	38	37	36	35	34
33	32	31	30	29	28	27	26	25	24	23	22	21	20	19

Terminal No.	Color of Wire	Signal Name [Specification]
3	P	–
4	L	–
5	W	–
6	P	–
7	G	–
8	R	–
9	LG	–
13	B	–
14	V	–
15	Y	–
19	G	–
20	LG	–
21	SHIELD	–
22	W	–
23	BR	–
24	L	–
25	Y	–
26	R	–
31	LG	–
32	R	–
33	SB	–
34	Y	–
35	GR	–
36	O	–
37	GR	–
38	G	–
39	O	–
40	Y	–
41	L	–
42	O	–
43	BR	–
44	V	–
45	P	–
46	W	–

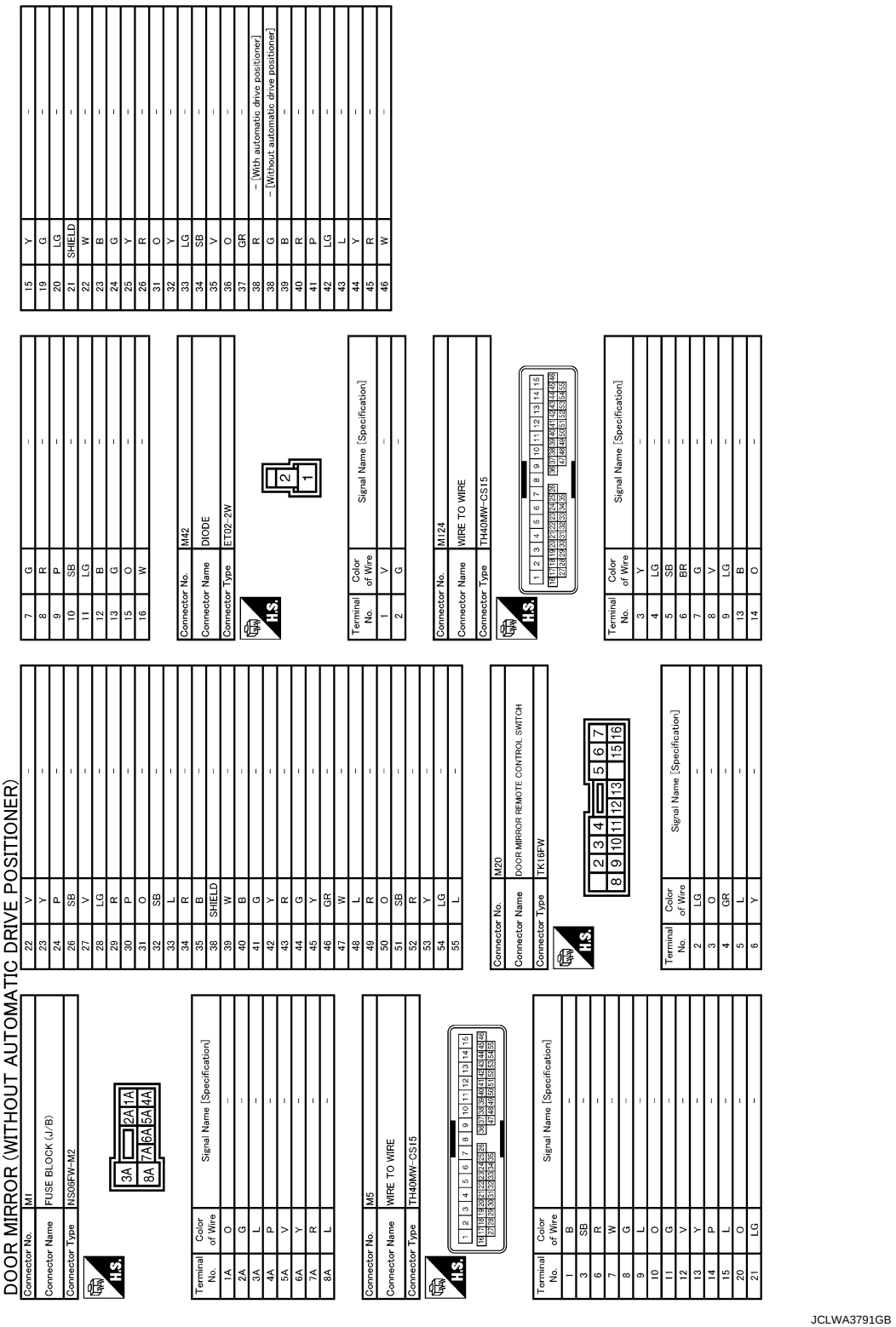
Connector No.	D33
Connector Name	DOOR MIRROR (PASSENGER SIDE)
Connector Type	TH24MW-NH

H.S.

12	11	10	9	8	7	6	5	4	3	2	
24	23	22	21		19	18	17	16			14

Terminal No.	Color of Wire	Signal Name [Specification]
2	Y	–
3	W	SIDE CAMERA RH COMM
4	LG	SIDE CAMERA RH IMAGE SIGNAL
5	Y	SIDE CAMERA RH POWER SUPPLY
6	R	–
7	LG	–
8	O	–
9	L	–
10	G	–
11	GR	–
12	O	–
14	O	–
16	G	–
17	L	SIDE CAMERA RH IMAGE GND
18	BR	SIDE CAMERA RH GND
19	B	–
21	P	–
22	BR	–
23	W	–
24	V	–

JCLWA3790GB



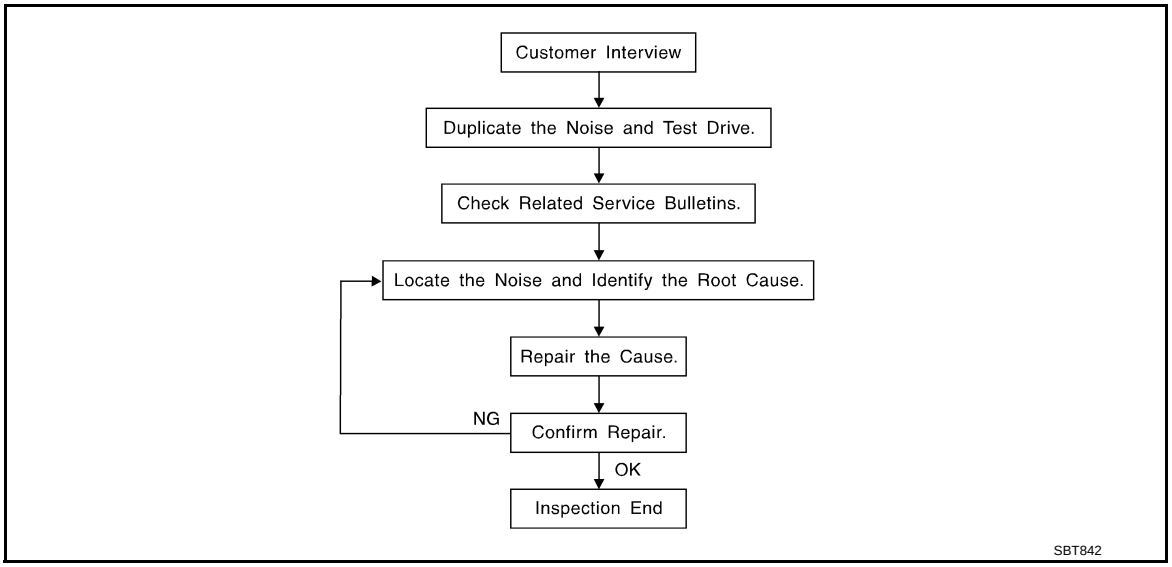
JCLWA3791GB

SYMPTOM DIAGNOSIS

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:0000000005236572



CUSTOMER INTERVIEW

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any of customer's comments; refer to MIR-94, "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, perform a diagnosis and repair the noise that the customer is concerned about. This can be accomplished by performing a cruise test on the vehicle with the customer.
- After identifying the type of noise, isolate the noise in terms of its characteristics. The noise characteristics are provided so the customer, service adviser and technician are all speaking the same language when defining the noise.
- Squeak – (Like tennis shoes on a clean floor)
  Squeak characteristics include the light contact/fast movement/brought on by road conditions/hard surfaces = higher pitch noise/softer surfaces = lower pitch noises/edge to surface = chirping
- Creak – (Like walking on an old wooden floor)
  Creak characteristics include firm contact/slow movement/twisting with a rotational movement/pitch dependent on materials/often brought on by activity.
- Rattle – (Like shaking a baby rattle)
  Rattle characteristics include the fast repeated contact/vibration or similar movement/loose parts/missing clip or fastener/incorrect clearance.
- Knock – (Like a knock on a door)
  Knock characteristics include hollow sounding/sometimes repeating/often brought on by driver action.
- Tick – (Like a clock second hand)
  Tick characteristics include gentle contacting of light materials/loose components/can be caused by driver action or road conditions.
- Thump – (Heavy, muffled knock noise)
  Thump characteristics include softer knock/dead sound often brought on by activity.
- Buzz – (Like a bumblebee)
  Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending up on the person. A noise that a technician 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 the repair is reconfirmed.
If the noise can be duplicated easily during the test drive, to help identify the source of the noise, try to duplicate the noise with the vehicle stopped by doing one or all of the following:
1) Close a door.
2) Tap or push/pull around the area where the noise appears to be coming from.
3) Rev the engine.
4) Use a floor jack to recreate vehicle “twist”.
5) At idle, apply engine load (electrical load, half-clutch on M/T models, drive position on A/T models).
6) Raise the vehicle on a hoist and hit a tire with a rubber hammer.

- Drive the vehicle and attempt to duplicate the conditions the customer states exist when the noise occurs.
- If it is difficult to duplicate the noise, drive the vehicle slowly on an undulating or rough road to stress the vehicle body.

CHECK RELATED SERVICE BULLETINS

After verifying the customer concern or symptom, check ASIST for Technical Service Bulletins (TSBs) related to that concern or symptom.
If a TSB relates to the symptom, follow the procedure to repair the noise.

LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Chassis ear: J-39570, Engine ear and mechanics stethoscope).
2. Narrow down the noise to a more specific area and identify the cause of the noise by:

- Removing the components in the area that is are suspected to be the cause of the noise.
  Do not use too much force when removing clips and fasteners, otherwise clips and fastener can be broken or lost during the repair, resulting in the creation of new noise.
- Tapping or pushing/pulling the component that is are suspected to be the cause of 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 by hand by touching the component(s) that is are suspected to be the cause of the noise.
- Placing a piece of paper between components that are suspected to be the cause of the noise.
- Looking for loose components and contact marks.
  Refer to MIR-92, "Inspection Procedure".

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 the authorized Nissan Parts Department.

CAUTION:
Never use excessive force as many components are constructed of plastic and may be damaged.
NOTE:
Always check with the Parts Department for the latest parts information.
The following materials are contained in the Nissan Squeak and Rattle Kit (J-43980). Each item can be ordered separately as needed.
URETHANE PADS [1.5 mm (0.059 in) thick]
Insulates connectors, harness, etc.
76268-9E005: 100 × 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 × 1.97in)
FELT CLOTHTAPE
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 in place of UHMW tape that is be visible or does not fit. Will only last a few months.
SILICONE SPRAY
Used when grease cannot be applied.
DUCT TAPE
Used to eliminate movement.

CONFIRM THE REPAIR

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

Inspection Procedure

INFOID:0000000005236573

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

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

1. The cluster lid A and instrument panel
2. Acrylic lens and combination meter housing
3. Instrument panel to front pillar garnish
4. Instrument panel to windshield
5. Instrument panel mounting pins
6. Wiring harnesses behind the combination meter
7. A/C defroster duct and duct joint
   These incidents can usually be located by tapping or moving the components to duplicate the noise or by pressing on the components while driving to stop the noise. Most of these incidents can be repaired by applying felt cloth tape or silicon spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness.
   CAUTION:
   Never use silicone spray to isolate a squeak or rattle. If the area is saturated with silicone, the recheck of repair becomes impossible.

CENTER CONSOLE

Components to pay attention to include:

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

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

DOORS

Pay attention to the following:

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. The areas can usually be insulated 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 customer.
In addition look for the following:

1. Trunk lid dumpers out of adjustment
2. Trunk lid striker out of adjustment

3. The trunk lid torsion bars knocking together
4. A loose license plate or bracket

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

SUNROOF/HEADLINING

Noises in the sunroof/headlining area can often be traced to one of the following:

1. Sunroof lid, rail, linkage or seals making a rattle or light knocking noise
2. Sunvisor shaft shaking in the holder
3. Front or rear windshield touching headlining and squeaking

Again, pressing on the components to stop the noise while duplicating the conditions can isolate most of these incidents. Repairs usually consist of insulating with felt cloth tape.

SEATS

When isolating seat noise it's important to note the position the seats in and the load placed on the seat when the noise occurs. 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 mounted to the engine wall
2. Components that pass through the engine wall
3. Engine wall mounts and connectors
4. Loose radiator mounting pins
5. Hood bumpers out of adjustment
6. Hood striker out of adjustment

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

Diagnostic Worksheet

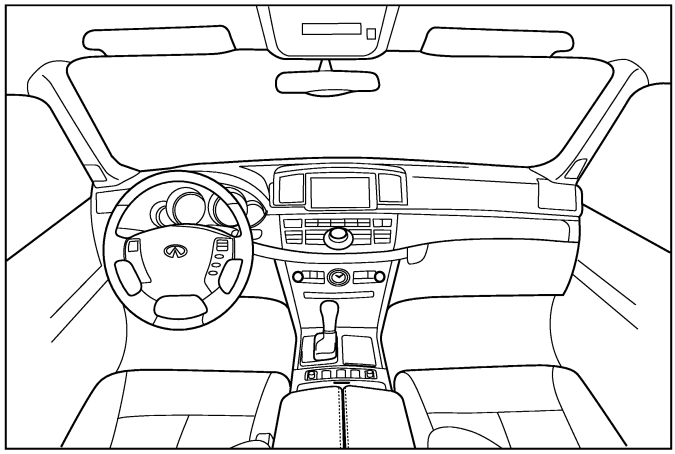
INFOID:0000000005236574

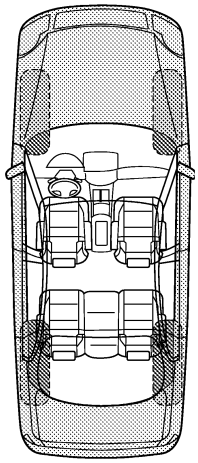
INFINITI.

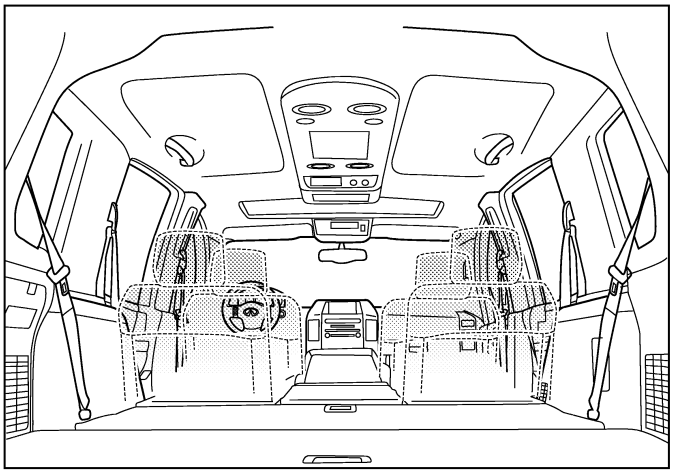
SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

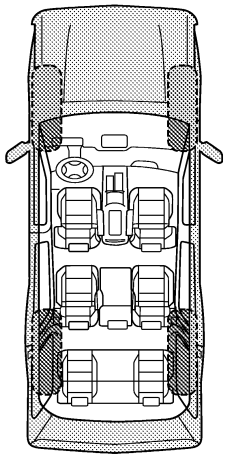
Dear Infiniti Customer:
We are concerned about your satisfaction with your Infiniti vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your Infiniti right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under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

I. WHERE DOES THE NOISE COME FROM? (circle the area of the vehicle)
The illustrations are for reference only, and may not reflect the actual configuration of your vehicle.









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

PIIB8741E

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

PIIB8742E

PRECAUTION

PRECAUTIONS

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

INFOID:0000000005236575

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

WARNING:

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

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

WARNING:

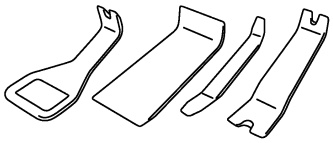
- **When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious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

PREPARATION

PREPARATION

Commercial Service Tools

INFOID:0000000005236576

Tool name	Description
Remover tool  PIIB7923J	Removes the clips, pawls and metal clips

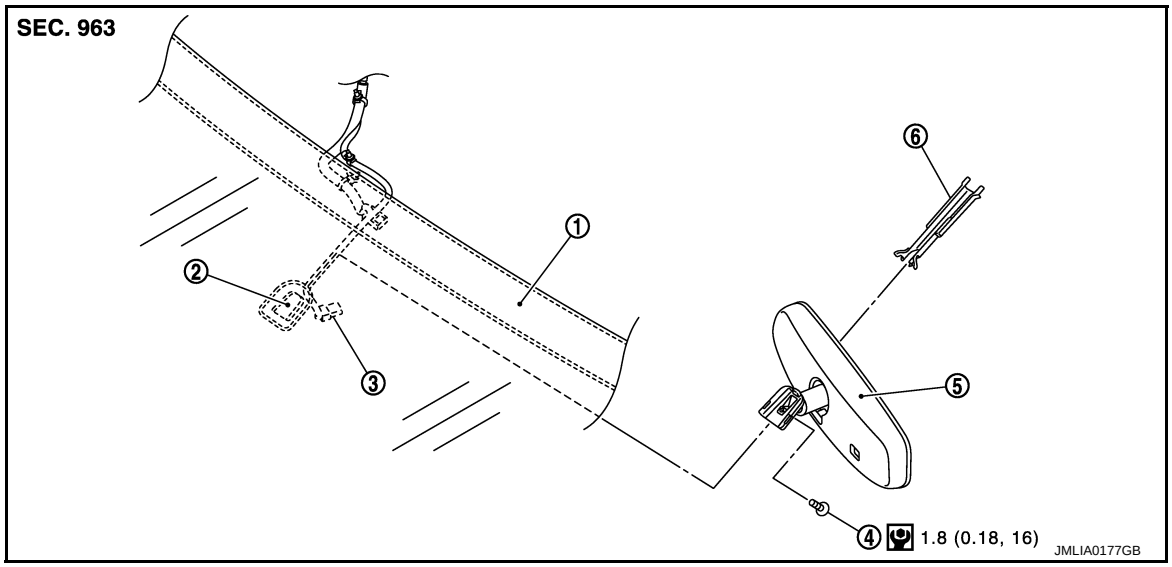
REMOVAL AND INSTALLATION

INSIDE MIRROR

Exploded View

INFOID:0000000005236577

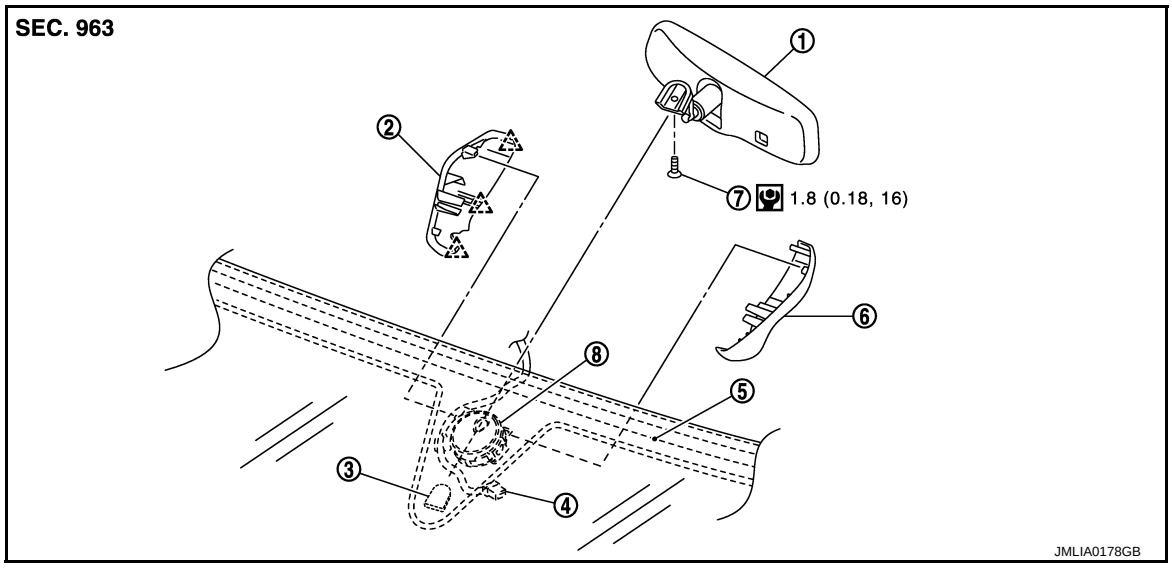
Base model



1. Windshield glass
2. Mirror base
3. Harness connector
4. TORX bolt
5. Inside mirror
6. Inside mirror cover

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

Option model



1. Inside mirror
2. Rain sensor cover RH
3. Mirror base
4. Harness connector
5. Windshield glass
6. Rain sensor cover LH
7. TORX bolt
8. Rain sensor

: Pawl

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

Removal and Installation

INFOID:0000000005236578

REMOVAL

Base model

1. Remove the inside mirror cover.
2. Remove TORX bolt.
3. Disconnect harness connector from inside mirror.
4. Slide the inside mirror upward to remove.

Option model

1. Remove the rain sensor cover (LH/RH).
2. Disconnect harness connector from inside mirror.
3. Loosen TORX bolt and slide inside mirror upward to remove.

INSTALLATION

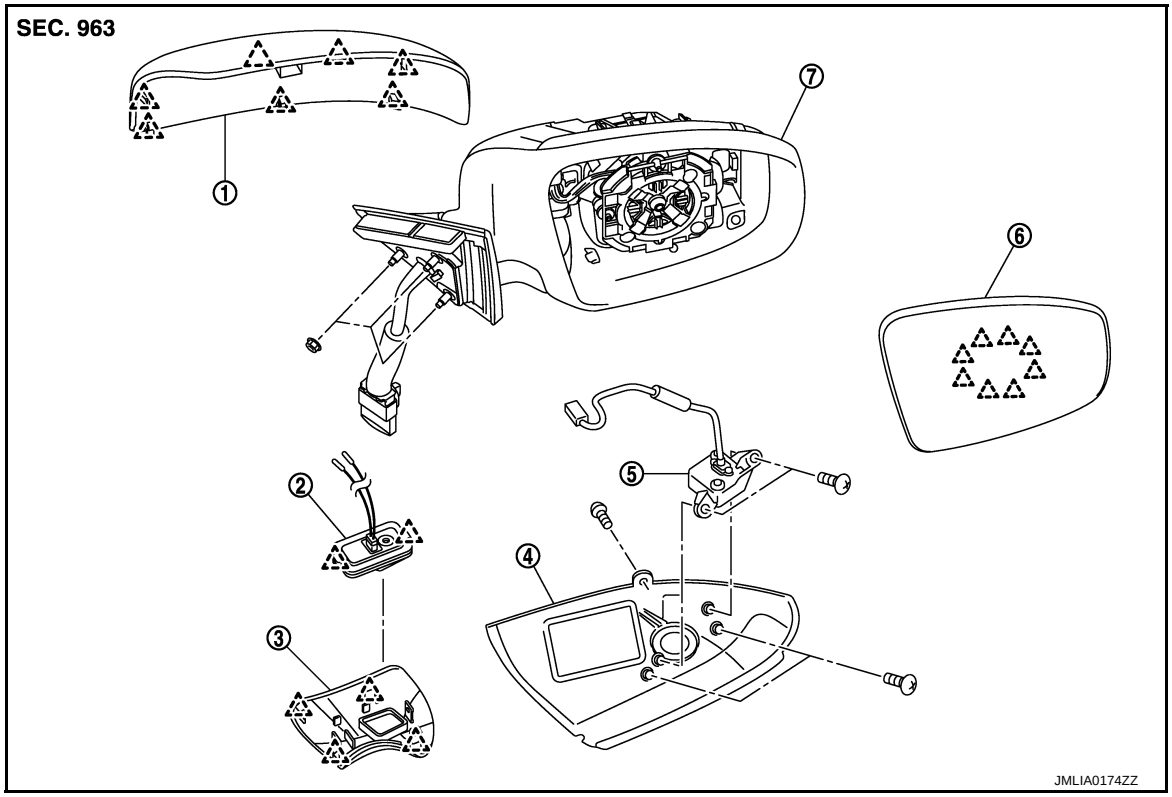
Install in the reverse order of removal.

OUTSIDE MIRROR

DOOR MIRROR ASSEMBLY

DOOR MIRROR ASSEMBLY : Exploded View

INFOID:0000000005236579



1. Door mirror cover
2. Puddle lamp
3. Base cover
4. Side camera finisher assembly (with side camera model)
5. Side camera assembly (with side camera model)
6. Glass mirror
7. Mirror assembly

: Pawl

DOOR MIRROR ASSEMBLY : Removal and Installation

INFOID:0000000005236580

REMOVAL

1. Remove front door finisher. Refer to INT-11, "Removal and Installation".
2. Remove front door sash inner cover. Refer to GW-18, "Exploded View".
3. Disconnect door mirror harness connector.
4. Remove door mirror mounting nuts, and remove door mirror assembly.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

Perform camera image calibration. Refer to AV-462, "CALIBRATING CAMERA IMAGE (AROUND VIEW MONITOR) : Description".

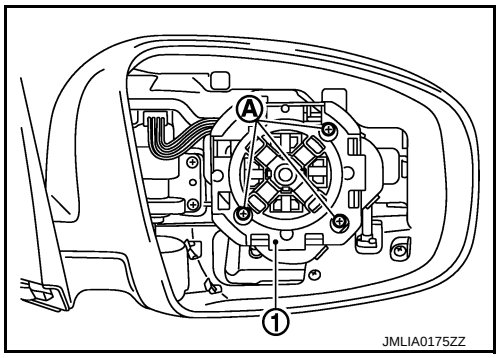
DOOR MIRROR ASSEMBLY : Disassembly and Assembly

INFOID:0000000005236581

DISASSEMBLY

1. Remove door mirror assembly. Refer to MIR-100, "DOOR MIRROR ASSEMBLY : Removal and Installation".

2. Remove glass mirror. Refer to MIR-102, "GLASS MIRROR : Disassembly and Assembly".
3. Remove door mirror cover. Refer to MIR-103, "DOOR MIRROR COVER : Disassembly and Assembly".
4. Remove screws (A) and connector, and then remove actuator (1).



5. Remove side camera and LED lamp.
   - Side camera LH: Refer to AV-585, "Removal and Installation".
   - Side camera RH: Refer to AV-587, "Removal and Installation".
6. Remove base cover and puddle lamp.

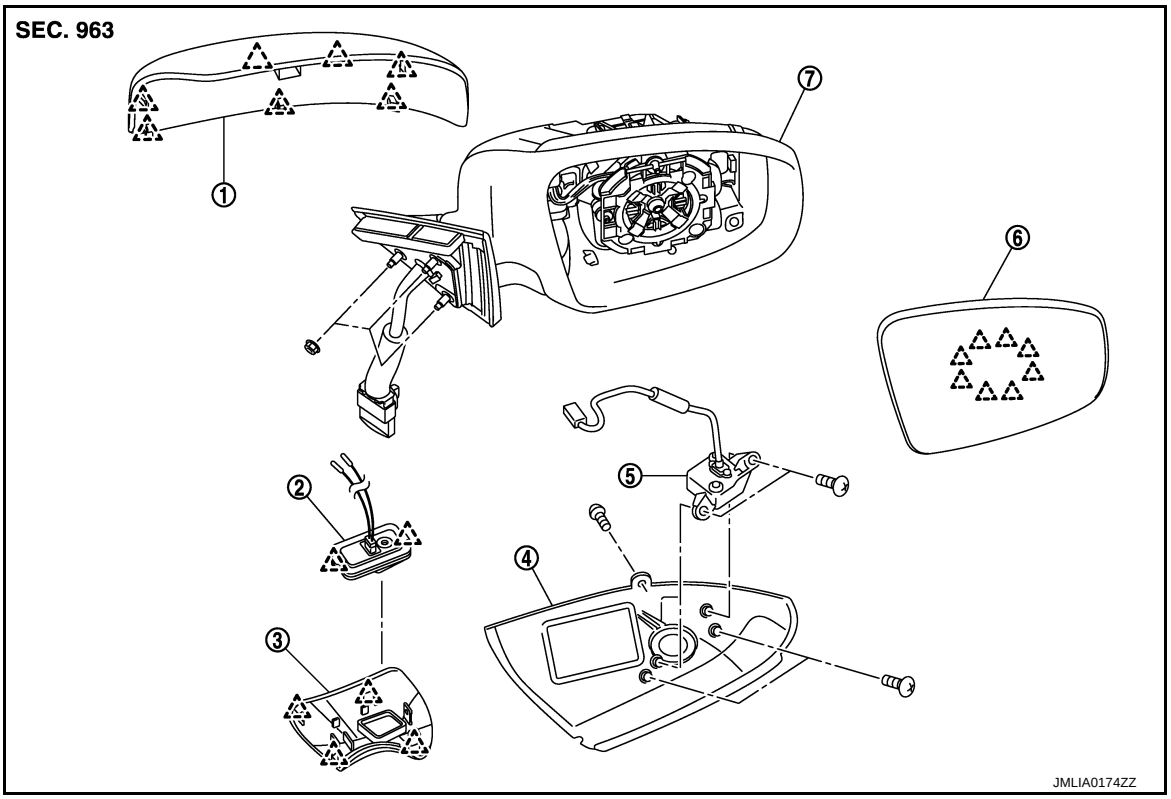
ASSEMBLY

Assemble in the reverse order of disassembly.

GLASS MIRROR

GLASS MIRROR : Exploded View

INFOID:0000000005236582



1. Door mirror cover
2. Puddle lamp
3. Base cover
4. Side camera finisher assembly (with side camera model)
5. Side camera assembly (with side camera model)
6. Glass mirror
7. Mirror assembly

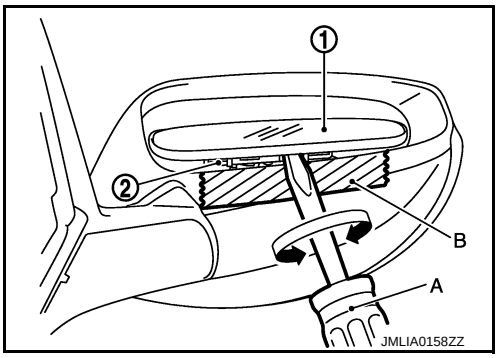
: Pawl

GLASS MIRROR : Disassembly and Assembly

INFOID:0000000005236583

DISASSEMBLY

1. Place the glass mirror upward.
2. Put a strip of protective tape (B) on housing assembly.
3. As shown in the figure, insert a small flat-bladed screwdriver (A) between glass mirror (1) and actuator (2). Push up both pawls simultaneously to remove glass mirror lower half side.
   NOTE:
   Insert flat-bladed screwdriver into recesses, and push up while rotating (twisting) to make work easier.



4. Remove two terminals of mirror heater attachment.
5. Lightly lift up lower side of glass mirror, and detach both pawls of upper side as if pulling it out to disassemble glass mirror from actuator.
   NOTE:
   Be careful not to allow grease on sealing agent in center of mirror or back side of glass mirror.

ASSEMBLY

Assemble in the reverse order of disassembly.

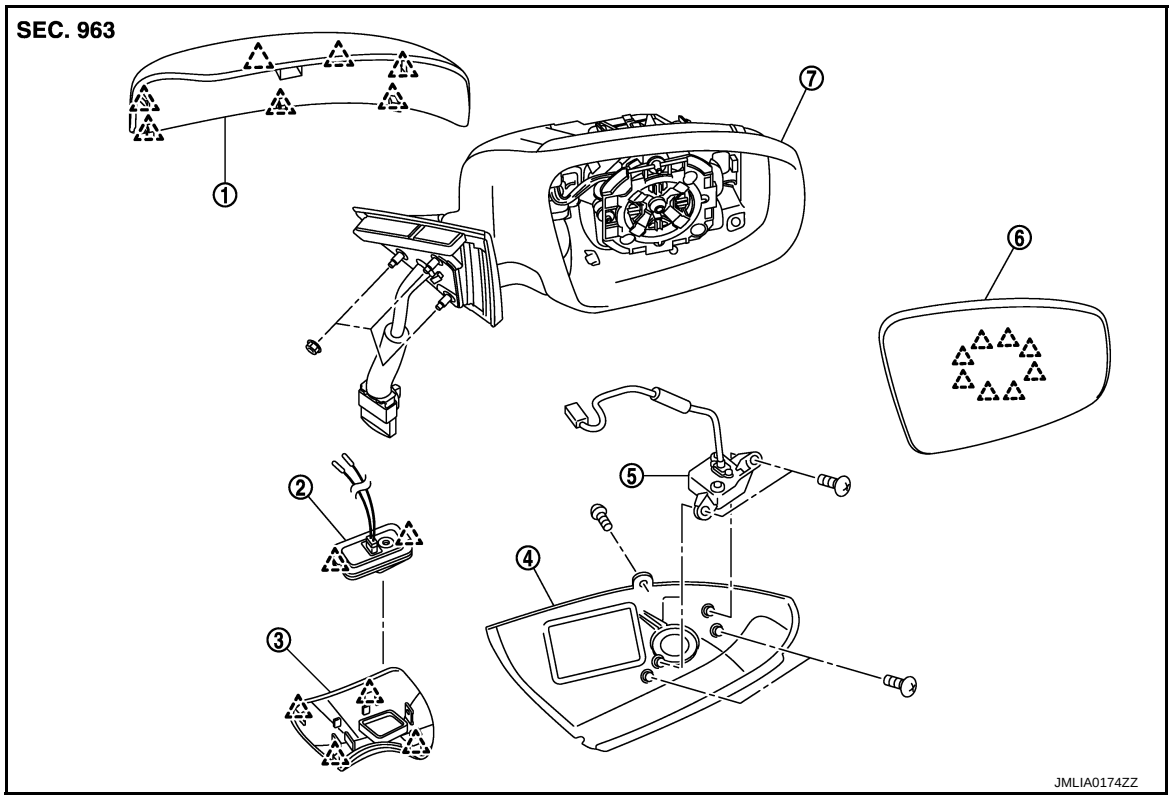
CAUTION:

After installation, visually check that pawls are securely engaged.

DOOR MIRROR COVER

DOOR MIRROR COVER : Exploded View

INFOID:0000000005236584



1. Door mirror cover
2. Puddle lamp
3. Base cover
4. Side camera finisher assembly (with side camera model)
5. Side camera assembly (with side camera model)
6. Glass mirror
7. Mirror assembly

: Pawl

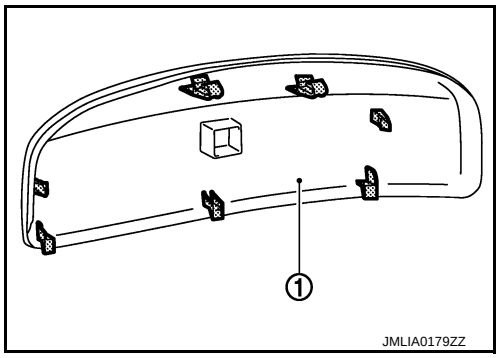
DOOR MIRROR COVER : Disassembly and Assembly

INFOID:0000000005236585

CAUTION:
Never damage the mirror bodies.

DISASSEMBLY

1. Remove the glass mirror. Refer to MIR-102, "GLASS MIRROR : Disassembly and Assembly".
2. Remove the pawls, and disassemble the door mirror cover (1) from the mirror assembly.



ASSEMBLY

Assemble in the reverse order of disassembly.

CAUTION:
After installation, visually check that pawls are securely engaged.

DOOR MIRROR REMOTE CONTROL SWITCH

Exploded View

INFOID:0000000005236586

Refer to INT-14, "Exploded View"

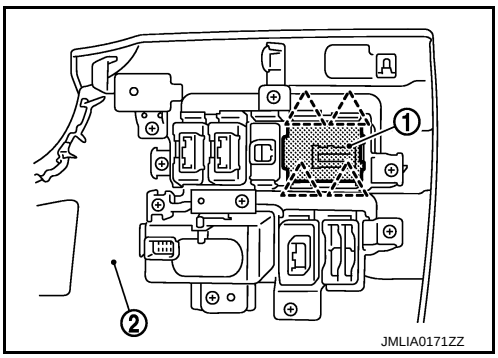
Removal and Installation

INFOID:0000000005236587

REMOVAL

1. Remove the instrument lower panel LH. Refer to INT-11, "Exploded View".
2. Remove door mirror remote control switch (1) from instrument lower panel LH (2) a using flat-bladed screwdriver.

: Pawl



INSTALLATION

Install in the reverse order of removal.