SECTION ADDP A AUTOMATIC DRIVE POSITIONER C

D

Е

CONTENTS

BASIC INSPECTION4
DIAGNOSIS AND REPAIR WORKFLOW 4 Work Flow
INSPECTION AND ADJUSTMENT
FUNCTION DIAGNOSIS8
AUTOMATIC DRIVE POSITIONER SYSTEM 8
AUTOMATIC DRIVE POSITIONER SYSTEM
MANUAL FUNCTION11MANUAL FUNCTION : System Diagram12MANUAL FUNCTION : System Description12MANUAL FUNCTION : Component Parts Location13MANUAL FUNCTION : Component Description14
MEMORY FUNCTION15MEMORY FUNCTION : System Diagram15MEMORY FUNCTION : System Description15MEMORY FUNCTION : Component Parts Location17MEMORY FUNCTION : Component Description17
EXIT ASSIST FUNCTION

EXIT ASSIST FUNCTION : Component Description20	F
ENTRY ASSIST FUNCTION21 ENTRY ASSIST FUNCTION : System Diagram21 ENTRY ASSIST FUNCTION : System Description	G
21 ENTRY ASSIST FUNCTION : Component Parts Location	Η
ENTRY ASSIST FUNCTION : Component Description23	Ι
DIAGNOSIS SYSTEM (DRIVER SEAT C/U)24 Diagnosis Description	AD
COMPONENT DIAGNOSIS27	K
U1000 CAN COMM CIRCUIT27 Description	L
B2112 SLIDING MOTOR28Description28DTC Logic28Diagnosis Procedure28	M
B2113 RECLINING MOTOR29Description29DTC Logic29Diagnosis Procedure29	0
B2114 SEAT LIFTER FR	Ρ
B2115 SEAT LIFTER RR	

Diagnosis Procedure	31
B2117 ADJ PEDAL MOTOR Description	
Description DTC Logic	
Diagnosis Procedure	
B2120 ADJ PEDAL SENSOR	
Description	
DTC Logic Diagnosis Procedure	
B2126 DETENT SW	
Description	
DESCRIPTION	
Diagnosis Procedure (Floor Shift)	
Diagnosis Procedure (Column Shift)	37
B2128 UART COMMUNICATION LINE	39
Description	
DTC Logic	
Diagnosis Procedure	39
POWER SUPPLY AND GROUND CIRCUIT	41
BCM	41
BCM : Diagnosis Procedure	
BCM : Special Repair Requirement	41
DRIVER SEAT CONTROL UNIT DRIVER SEAT CONTROL UNIT :	
Diagnosis Procedure DRIVER SEAT CONTROL UNIT : Special Repair Requirement	
	72
AUTOMATIC DRIVE POSITIONER CONTROL	12
AUTOMATIC DRIVE POSITIONER CONTROL	42
UNIT : Diagnosis Procedure	42
AUTOMATIC DRIVE POSITIONER CONTROL	
UNIT : Special Repair Requirement	42
SLIDING SWITCH	43
Description	
Component Function Check	
Diagnosis Procedure Component Inspection	
Component inspection	44
RECLINING SWITCH	-
Description	
Component Function Check Diagnosis Procedure	
Component Inspection	
LIFTING SWITCH (FRONT)	
Description Component Function Check	
Diagnosis Procedure	
Component Inspection	
LIFTING SWITCH (REAR)	⊿۵
Description	49

Component Function Check
PEDAL ADJUSTING SWITCH 51
Description51
Component Function Check
Diagnosis Procedure
Component Inspection
SEAT MEMORY SWITCH54
Description
Component Function Check
Diagnosis Procedure
Component Inspection55
DOOR MIRROR REMOTE CONTROL SWITCH
CHANGEOVER SWITCH56
CHANGEOVER SWITCH : Description
CHANGEOVER SWITCH : Component Function
Check
CHANGEOVER SWITCH : Diagnosis Procedure 56
CHANGEOVER SWITCH : Diagnosis Procedureso CHANGEOVER SWITCH : Component Inspec-
tion57
MIRROR SWITCH58
MIRROR SWITCH : Description
MIRROR SWITCH : Component Function Check 58
MIRROR SWITCH : Diagnosis Procedure58
MIRROR SWITCH : Component Inspection
MIRROR SWITCH : Component Inspection 60 POWER SEAT SWITCH GROUND CIRCUIT 61
MIRROR SWITCH : Component Inspection
MIRROR SWITCH : Component Inspection 60 POWER SEAT SWITCH GROUND CIRCUIT 61
MIRROR SWITCH : Component Inspection 60 POWER SEAT SWITCH GROUND CIRCUIT 61 Diagnosis Procedure
MIRROR SWITCH : Component Inspection 60 POWER SEAT SWITCH GROUND CIRCUIT 61 Diagnosis Procedure
MIRROR SWITCH : Component Inspection 60 POWER SEAT SWITCH GROUND CIRCUIT 61 Diagnosis Procedure
MIRROR SWITCH : Component Inspection 60 POWER SEAT SWITCH GROUND CIRCUIT 61 Diagnosis Procedure
MIRROR SWITCH : Component Inspection 60 POWER SEAT SWITCH GROUND CIRCUIT 61 Diagnosis Procedure
MIRROR SWITCH : Component Inspection
MIRROR SWITCH : Component Inspection60POWER SEAT SWITCH GROUND CIRCUIT 61Diagnosis Procedure61DETENTION SWITCH62Description62Component Function Check62Diagnosis Procedure (Floor Shift)62Diagnosis Procedure (Column Shift)63FRONT DOOR SWITCH (DRIVER SIDE)65Description65Component Function Check65Description65Component Function Check65Diagnosis Procedure (Crew Cab)65Diagnosis Procedure (King Cab)65Diagnosis Procedure (King Cab)65Component Inspection (King Cab)66Component Inspection (King Cab)67
MIRROR SWITCH : Component Inspection 60 POWER SEAT SWITCH GROUND CIRCUIT 61 61 Diagnosis Procedure 61 DETENTION SWITCH 62 Description 62 Component Function Check 62 Diagnosis Procedure (Floor Shift) 62 Diagnosis Procedure (Column Shift) 63 FRONT DOOR SWITCH (DRIVER SIDE) 65 Description 65 Diagnosis Procedure (Crew Cab) 65 Diagnosis Procedure (King Cab) 65 Component Inspection (King Cab) 67 SLIDING SENSOR 68
MIRROR SWITCH : Component Inspection 60 POWER SEAT SWITCH GROUND CIRCUIT 61 Diagnosis Procedure Diagnosis Procedure 61 DETENTION SWITCH 62 Description 62 Component Function Check 62 Diagnosis Procedure (Floor Shift) 62 Diagnosis Procedure (Column Shift) 63 FRONT DOOR SWITCH (DRIVER SIDE) 65 Description 65 Diagnosis Procedure (Crew Cab) 65 Diagnosis Procedure (King Cab) 65 Diagnosis Procedure (King Cab) 65 Diagnosis Procedure (King Cab) 67 SLIDING SENSOR 68 Description 68
MIRROR SWITCH : Component Inspection 60 POWER SEAT SWITCH GROUND CIRCUIT 61 61 Diagnosis Procedure 61 DETENTION SWITCH 62 Description 62 Component Function Check 62 Diagnosis Procedure (Floor Shift) 62 Diagnosis Procedure (Column Shift) 63 FRONT DOOR SWITCH (DRIVER SIDE) 65 Description 65 Diagnosis Procedure (Crew Cab) 65 Diagnosis Procedure (King Cab) 65 Component Inspection (King Cab) 67 SLIDING SENSOR 68
MIRROR SWITCH : Component Inspection 60 POWER SEAT SWITCH GROUND CIRCUIT 61 Diagnosis Procedure Diagnosis Procedure 61 DETENTION SWITCH 62 Description 62 Component Function Check 62 Diagnosis Procedure (Floor Shift) 62 Diagnosis Procedure (Column Shift) 63 FRONT DOOR SWITCH (DRIVER SIDE) 65 Description 65 Diagnosis Procedure (Crew Cab) 65 Diagnosis Procedure (King Cab) 65 Diagnosis Procedure (King Cab) 65 Diagnosis Procedure (King Cab) 67 SLIDING SENSOR 68 Description 68
MIRROR SWITCH : Component Inspection 60 POWER SEAT SWITCH GROUND CIRCUIT 61 Diagnosis Procedure Diagnosis Procedure 61 DETENTION SWITCH 62 Description 62 Component Function Check 62 Diagnosis Procedure (Floor Shift) 62 Diagnosis Procedure (Column Shift) 63 FRONT DOOR SWITCH (DRIVER SIDE) 65 Description 65 Diagnosis Procedure (Crew Cab) 65 Diagnosis Procedure (Crew Cab) 65 Diagnosis Procedure (King Cab) 65 Diagnosis Procedure (King Cab) 66 Component Inspection (King Cab) 67 SLIDING SENSOR 68 Description 68 Diagnosis Procedure 68
MIRROR SWITCH : Component Inspection 60 POWER SEAT SWITCH GROUND CIRCUIT 61 61 Diagnosis Procedure 61 DETENTION SWITCH 62 Description 62 Component Function Check 62 Diagnosis Procedure (Floor Shift) 62 Diagnosis Procedure (Column Shift) 63 FRONT DOOR SWITCH (DRIVER SIDE) 65 Description 65 Diagnosis Procedure (Crew Cab) 65 Diagnosis Procedure (King Cab) 65 Component Inspection (Crew Cab) 66 Component Inspection (King Cab) 67 SLIDING SENSOR 68 Description 68 Component Function Check 68 Diagnosis Procedure 68 RECLINING SENSOR 70
MIRROR SWITCH : Component Inspection 60 POWER SEAT SWITCH GROUND CIRCUIT 61 61 Diagnosis Procedure 61 DETENTION SWITCH 62 Description 62 Component Function Check 62 Diagnosis Procedure (Floor Shift) 62 Diagnosis Procedure (Column Shift) 63 FRONT DOOR SWITCH (DRIVER SIDE) 65 Description 65 Diagnosis Procedure (Crew Cab) 65 Diagnosis Procedure (King Cab) 66 Component Inspection (King Cab) 67 SLIDING SENSOR 68 Description 68 Component Function Check 68 Diagnosis Procedure 68 Description 68 Description 68 Description 68 Description 70 Description 70
MIRROR SWITCH : Component Inspection 60 POWER SEAT SWITCH GROUND CIRCUIT 61 Diagnosis Procedure Diagnosis Procedure 61 DETENTION SWITCH 62 Description 62 Component Function Check 62 Diagnosis Procedure (Floor Shift) 62 Diagnosis Procedure (Column Shift) 63 FRONT DOOR SWITCH (DRIVER SIDE) 65 Description 65 Diagnosis Procedure (Crew Cab) 65 Diagnosis Procedure (Crew Cab) 65 Diagnosis Procedure (King Cab) 65 Diagnosis Procedure (King Cab) 66 Component Inspection (Crew Cab) 66 Component Inspection (King Cab) 67 SLIDING SENSOR 68 Description 68 Component Function Check 68 Diagnosis Procedure 68 Description 68 Description 70 Description 70 Description 70 Description 70 Component Function Check 70
MIRROR SWITCH : Component Inspection 60 POWER SEAT SWITCH GROUND CIRCUIT 61 61 Diagnosis Procedure 61 DETENTION SWITCH 62 Description 62 Component Function Check 62 Diagnosis Procedure (Floor Shift) 62 Diagnosis Procedure (Column Shift) 63 FRONT DOOR SWITCH (DRIVER SIDE) 65 Description 65 Diagnosis Procedure (Crew Cab) 65 Diagnosis Procedure (King Cab) 66 Component Inspection (King Cab) 67 SLIDING SENSOR 68 Description 68 Component Function Check 68 Diagnosis Procedure 68 Description 68 Description 68 Description 68 Description 70 Description 70
MIRROR SWITCH : Component Inspection 60 POWER SEAT SWITCH GROUND CIRCUIT 61 Diagnosis Procedure 61 DETENTION SWITCH 62 Description 62 Component Function Check 62 Diagnosis Procedure (Floor Shift) 62 Diagnosis Procedure (Column Shift) 63 FRONT DOOR SWITCH (DRIVER SIDE) 65 Description 65 Component Function Check 65 Diagnosis Procedure (Crew Cab) 65 Diagnosis Procedure (King Cab) 65 Diagnosis Procedure (King Cab) 66 Component Inspection (Crew Cab) 66 Component Inspection (King Cab) 67 SLIDING SENSOR 68 Description 68 Component Function Check 68 Diagnosis Procedure 68 RECLINING SENSOR 70 Description 70 Component Function Check 70 Diagnosis Procedure 70
MIRROR SWITCH : Component Inspection 60 POWER SEAT SWITCH GROUND CIRCUIT 61 Diagnosis Procedure Diagnosis Procedure 61 DETENTION SWITCH 62 Description 62 Component Function Check 62 Diagnosis Procedure (Floor Shift) 62 Diagnosis Procedure (Column Shift) 63 FRONT DOOR SWITCH (DRIVER SIDE) 65 Description 65 Diagnosis Procedure (Crew Cab) 65 Diagnosis Procedure (Crew Cab) 65 Diagnosis Procedure (King Cab) 65 Diagnosis Procedure (King Cab) 66 Component Inspection (Crew Cab) 66 Component Inspection (King Cab) 67 SLIDING SENSOR 68 Description 68 Component Function Check 68 Diagnosis Procedure 68 Description 68 Description 70 Description 70 Description 70 Description 70 Component Function Check 70

Component Function Check Diagnosis Procedure	
LIFTING SENSOR (REAR)	74
Description	74
Component Function Check	74
Diagnosis Procedure	
PEDAL ADJUSTING SENSOR	
Description Component Function Check	
Diagnosis Procedure	
MIRROR SENSOR	78
DRIVER SIDE	78
DRIVER SIDE : Description	78
DRIVER SIDE : Component Function Check	
DRIVER SIDE : Diagnosis Procedure	78
PASSENGER SIDE	80
PASSENGER SIDE : Description PASSENGER SIDE :	80
Component Function Check	80
PASSENGER SIDE : Diagnosis Procedure	
SLIDING MOTOR	82
Description	82
Component Function Check	82
Diagnosis Procedure	82
RECLINING MOTOR	
Description	
Component Function Check	
Diagnosis Procedure	
LIFTING MOTOR (FRONT)	
Description	
Component Function Check Diagnosis Procedure	
LIFTING MOTOR (REAR) Description	
Component Function Check	
Diagnosis Procedure	
PEDAL ADJUSTING MOTOR	90
Description	
Component Function Check	90
Diagnosis Procedure	90
DOOR MIRROR MOTOR	
Description	
Component Function Check	92

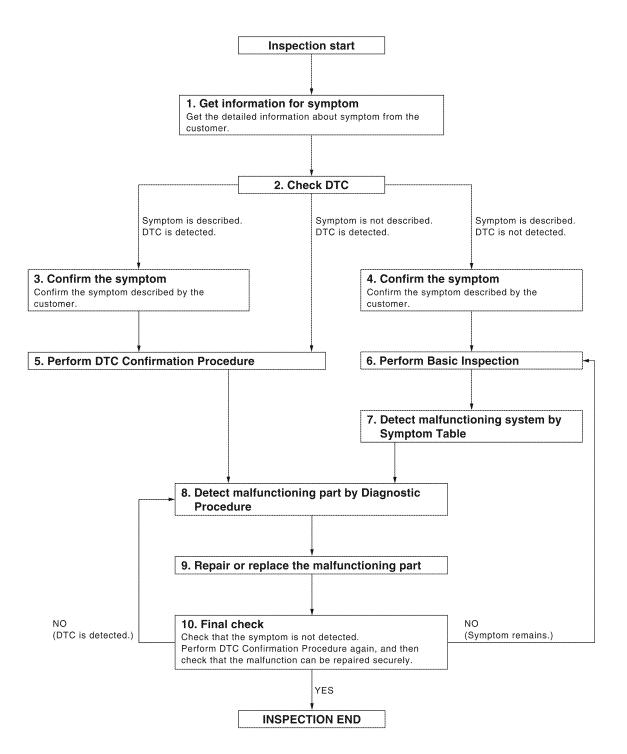
72	Diagnosis Procedure92	
72	Component Inspection94	Α
- 4		
74	SEAT MEMORY INDICATOR LAMP95	
74	Description	В
74	Component Function Check95	
74	Diagnosis Procedure95	
76	Component Inspection96	0
	ECU DIAGNOSIS97	С
	DRIVER SEAT CONTROL UNIT	
70	Reference Value	D
78	Wiring Diagram102	
	Fail Safe114	
78	DTC Index115	Е
78		
ck78	AUTOMATIC DRIVE POSITIONER CON-	
78	TROL UNIT 116	-
80	Reference Value116	F
	Wiring Diagram119	
80		
	BCM (BODY CONTROL MODULE)132	G
	Reference Value132	
80	Wiring Diagram132	
82	DTC Inspection Priority Chart132	Н
	DTC Index132	
	SYMPTOM DIAGNOSIS 133	
	ADP SYSTEM SYMPTOMS133	1
84	Symptom Table	
84		
84	NORMAL OPERATING CONDITION	AD
84	Description135	
86	PRECAUTION 136	K
86		
	PRECAUTIONS 136	
86	Precaution for Supplemental Restraint System	L
	(SRS) "AIR BAG" and "SEAT BELT PRE-TEN-	-
	SIONER"	
	Precaution for Work136	5.4
	PREPARATION137	M
00		
90	PREPARATION137	
90	Special Service Tool137	Ν
	Commercial Service Tool	
	REMOVAL AND INSTALLATION 138	0
92		-
92	AUTOMATIC DRIVE POSITIONER 138	
92	Removal and Installation138	Р
		P

< BASIC INSPECTION >

BASIC INSPECTION DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

WORK FLOW



INFOID:000000001672982

DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION > 1. GET INFORMATION FOR SYMPTOM А Get the detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurred). В >> GO TO 2. 2. CHECK DTC WITH AUTOMATIC DRIVE POSITIONER SYSTEM Check "Self Diagnostic Result" with CONSULT-III. Refer to <u>ADP-115, "DTC Index"</u>. Is any symptom described and any DTC is displayed? D Symptom is described, DTC is displayed.>>GO TO 3 Symptom is not described, DTC is displayed.>>GO TO 7 Symptom is described, DTC is not displayed.>>GO TO 4 E 3. CONFIRM THE SYMPTOM Try to confirm the symptom described by the customer. F >> GO TO 7 CONFIRM THE SYMPTOM Try to confirm the symptom described by the customer. >> GO TO 5 Н 5. CHECK NORMAL OPERATING CONDITION Check normal operating condition. Refer to ADP-135, "Description". Is the incident normal operation? >> INSPECTION END YES NO >> GO TO 6 ADP **6.** PERFORM BASIC INSPECTION Isolate the malfunctioning point with the basic inspection. Refer to ADP-7, "Preliminary Check". Κ >> GO TO 8 7. PERFORM DTC CONFIRMATION PROCEDURE Perform the confirmation procedure for the detected DTC. Is the DTC displayed? YES >> GO TO 9 Μ NO >> Check intermittent incident. Refer to GI-41, "Intermittent Incident". 8. PERFORM COMPONENT FUNCTION CHECK Ν Perform the component function check for the isolated malfunctioning point. >> GO TO 9 9. DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE Isolate the malfunctioning point by performing the diagnosis procedure relevant to the symptom during the Ρ component diagnosis. >> GO TO 10

10. REPAIR OR REPLACE

Repair or replace the malfunctioning part.

< BASIC INSPECTION >

>> GO TO 11

11. FINAL CHECK

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

Are all malfunctions corrected?

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

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >	
INSPECTION AND ADJUSTMENT	А
Preliminary Check	A
1. FOREIGN OBJECTS	В
 Check the following: objects on or behind the seats that could cause binding objects under the seats that may be interfering with the seat's moving parts objects under pedals that may interfere with movement 	С
Are there any foreign objects that could be causing interference? YES >> Remove objects. NO >> GO TO 2	D
2. WIRING CONNECTIONS 1. Disconnect harness connectors.	Е
 Check terminals for damage or loose connections. Reconnect harness connectors. <u>Are any connectors damaged or loose?</u> YES >> Repair or replace damaged parts. 	F
NO >> GO TO 3 3. POWER AND GROUND	G
Check power supply and ground circuits for control unit. Refer to <u>ADP-41, "DRIVER SEAT CONTROL UNIT:</u> <u>Diagnosis Procedure"</u> . <u>Is the inspection result normal?</u>	Η
YES >> Refer to <u>ADP-115, "DTC Index"</u> . NO >> Repair or replace as necessary.	Ι
Special Repair Requirement	
Refer to Owner's Manual for Automatic Drive Positioner system operating instructions.	ADP

L

Μ

Ν

Ο

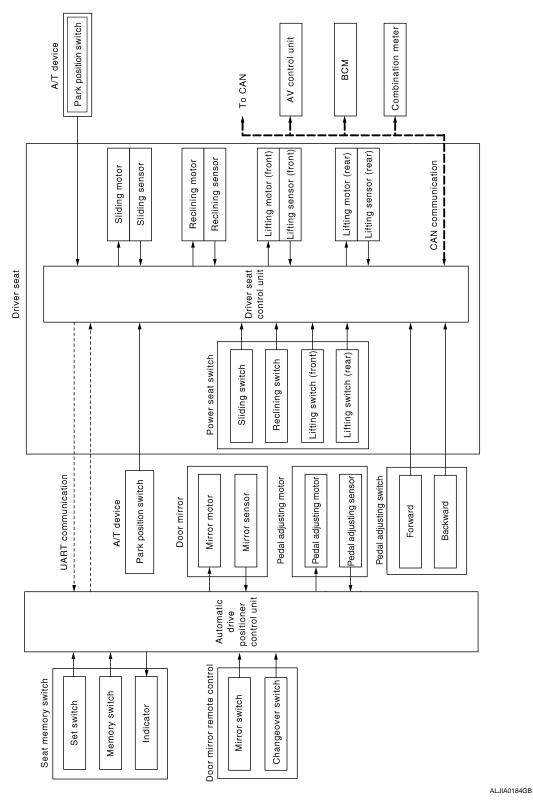
Ρ

< FUNCTION DIAGNOSIS >

FUNCTION DIAGNOSIS

AUTOMATIC DRIVE POSITIONER SYSTEM AUTOMATIC DRIVE POSITIONER SYSTEM

AUTOMATIC DRIVE POSITIONER SYSTEM : System Diagram



INFOID:000000001672985

< FUNCTION DIAGNOSIS >

AUTOMATIC DRIV		NER SYSTEM : Compor	nent Parts Location	DID:000000001672986
				_
	RUE			D E F
The second secon			BIIA002	G H I
 A. Automatic drive po unit M33, M34 B. Pedal adjusting mo 		 A. Steering column B. A/T device (park position switch) M68 (column shift) C. Key switch and key lock solenoid M27 (floor shift) D. BCM M18, M19, M20 (view with instrument panel removed) 	B. Seat memory switch D	ADP
4. Pedal adjusting switc	h M96 5.		 A. A/T selector lever B. A/T device (park position M203 (floor shift) 	n switch) └
 A. Sliding motor LH B2 view), reclining motor ing motor (front) B200 (rear) B207 B. Driver seat control B203 C. Power seat switch 	r LH B205, lift- 6, lifting motor I unit B202,			M
AUTOMATIC DRIV	E POSITION	NER SYSTEM : System	Description INF	OID:000000001672987

OUTLINE

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

< FUNCTION DIAGNOSIS >

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

AUTOMATIC DRIVE POSITIONER SYSTEM : Component Description

CONTROL UNITS

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

INPUT PARTS

Switches

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

< FUNCTION DIAGNOSIS >

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

Sensors

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

OUTPUT PARTS

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

MANUAL FUNCTION

L

Μ

Ν

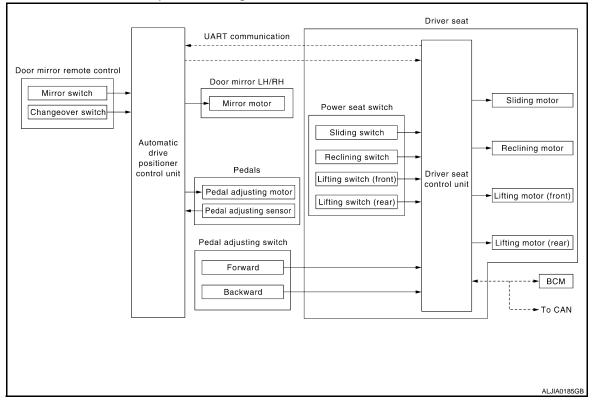
Ο

Ρ

G

< FUNCTION DIAGNOSIS >

MANUAL FUNCTION : System Diagram



MANUAL FUNCTION : System Description

INFOID:000000001672990

INFOID:000000001672989

OUTLINE

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

OPERATION PROCEDURE

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

DETAIL FLOW

Seat

Order	Input	Output	Control unit condition	
1	Power seat switch (sliding, lifting, reclin- ing)	_	The power seat switch signal is inputted to the driver seat controunit when the power seat switch is operated.	
2	_	Motors (sliding, lifting, reclin- ing)	The driver seat control unit outputs signals to each motor accord- ing to the power seat switch input signal.	

Adjustable pedals

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

< FUNCTION DIAGNOSIS >

Order	Input	Output	Control unit condition	0
2	_	Motor	The automatic drive positioner control unit actuates the motor ac- cording to the operation of the pedal adjusting switch signal from the driver seat control unit.	A
3	Sensors (forward, backward)	_	The automatic drive positioner control unit recognizes any oper- ation limit of each actuator via each sensor and will not operate the actuator anymore at that time.	В

С

F

G

Ρ

INFOID:000000001672991

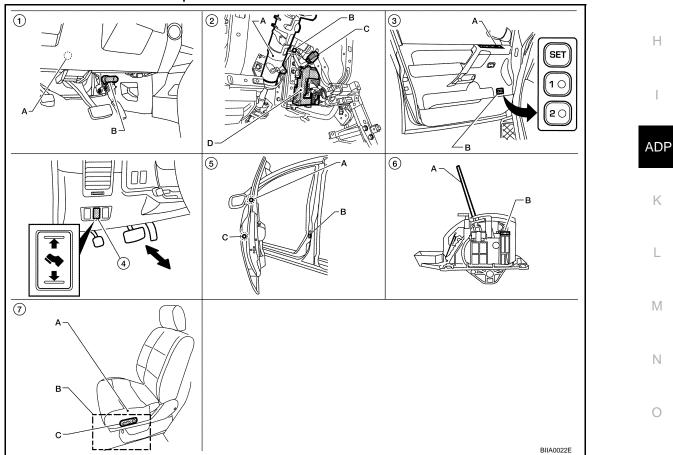
Door Mirror

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

NOTE:

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

MANUAL FUNCTION : Component Parts Location



< FUNCTION DIAGNOSIS >

1.	A. Automatic drive positioner control unit M33, M34 B. Pedal adjusting motor E109, E110	2.	 A. Steering column B. A/T device (park position switch) M68 (column shift) C. Key switch and key lock solenoid M27 (floor shift) D. BCM M18, M19, M20 (view with instrument panel removed) 	3.	A. Door mirror remote control switch D10 B. Seat memory switch D5
4.	Pedal adjusting switch M96	5.	A. Door mirrror LH D4, RH D107B. Front door switch LH B8C. Front door lock assembly LH (key cylinder switch) D14	6.	A. A/T selector lever B. A/T device (park position switch) M203 (floor shift)
7.	 A. Sliding motor LH B204 (driver seat view), reclining motor LH B205, lifting motor (front) B206, lifting motor (rear) B207 B. Driver seat control unit B202, B203 C. Power seat switch LH B208 				

INFOID:000000001672992

MANUAL FUNCTION : Component Description

CONTROL UNITS

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

INPUT PARTS

Switches

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

Sensors

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

< FUNCTION DIAGNOSIS >

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

D

INFOID:000000001672993

INFOID:000000001672994

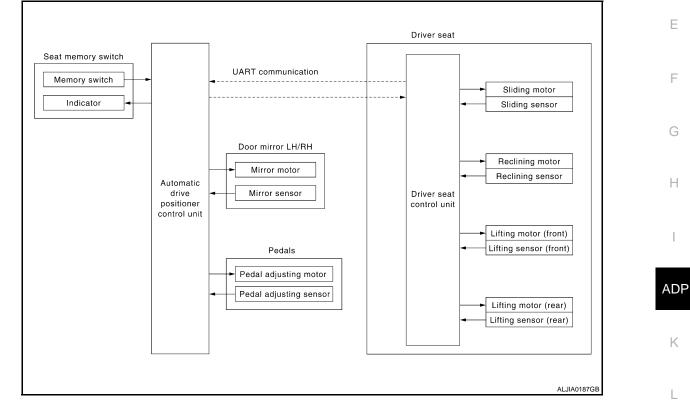
Μ

Ν

Ρ

MEMORY FUNCTION





MEMORY FUNCTION : System Description

OUTLINE

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

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

OPERATION PROCEDURE

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

OPERATION CONDITION

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

< FUNCTION DIAGNOSIS >

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

DETAIL FLOW

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

< FUNCTION DIAGNOSIS >

1		
A. Automatic drive positioner control unit M33, M34 B. Pedal adjusting motor E109, E110	2. A. Steering column 3. A. Door mirror remot B. A/T device (park position switch) D10 M68 (column shift) B. Seat memory swith C. Key switch and key lock solenoid M27 (floor shift) D. BCM M18, M19, M20 (view with instrument panel removed)	
Pedal adjusting switch M96	 A. Door mirrror LH D4, RH D107 B. Front door switch LH B8 C. Front door lock assembly LH (key cylinder switch) D14 A. A/T selector lever B. A/T device (park p. M203 (floor shift) 	
 A. Sliding motor LH B204 (driver seat view), reclining motor LH B205, lifting motor (front) B206, lifting motor (rear) B207 B. Driver seat control unit B202, B203 C. Power seat switch LH B208 		
IORY FUNCTION : Com	conent Description	INFOID:000000001672996

CONTROL UNITS

Item	Function	
Driver seat control unit	 The address of each part is recorded. Operates each motor of seat to the registered position. Requests the operations of pedal assembly and door mirror to automatic drive positioner control unit 	
Automatic drive positioner control unit	Operates the pedal adjusting motor and door mirror with the instructions from the driver seat control.	
ADP-17		

Ρ

< FUNCTION DIAGNOSIS >

INPUT PARTS

Switches

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

Sensors

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

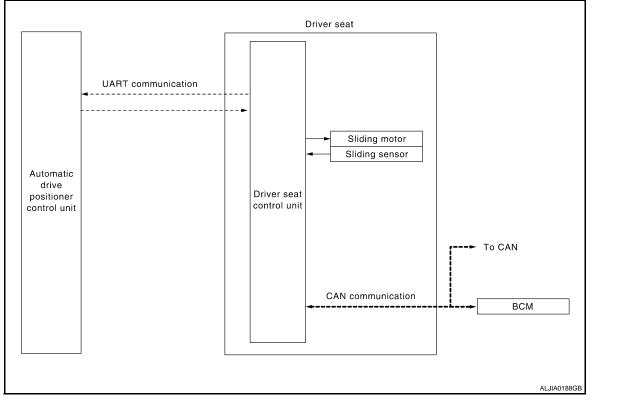
OUTPUT PARTS

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

INFOID:000000001672997

EXIT ASSIST FUNCTION

EXIT ASSIST FUNCTION : System Diagram



ADP-18

< FUNCTION DIAGNOSIS >

EXIT ASSIST FUNCTION : System Description INFOID:000000001672998 А OUTLINE When exiting, if the conditions are satisfied, the seat is moved backward from normal sitting position. The seat slide amount at entry/exit operation can be changed. В NOTE: This function is set to OFF before delivery (initial setting). • Further information for the system setting procedure. Refer to Owner's Manual. **OPERATION PROCEDURE** Open the driver door with ignition switch in OFF position. 1. Front seat LH will move to the exiting position. 2. D OPERATION CONDITION Satisfy all of the following items. The exit assist function is not performed if these items are not satisfied. Ε Item Request status OFF Ignition switch F System setting [Entry/exit assist function] ON Initialization Done Switch inputs · Power seat switch · Pedal adjusting switch OFF Door mirror remote control switch (Not operated) · Set switch Н · Seat memory switch A/T selector lever P position

DETAIL FLOW

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

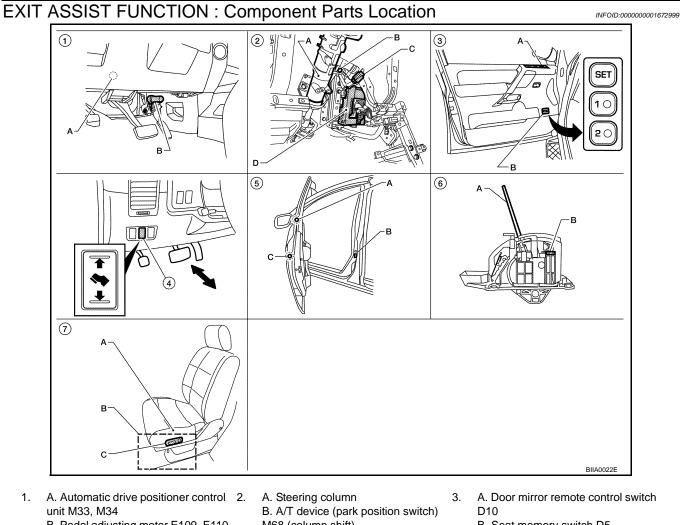
Μ

Ν

Ρ

٨DP

< FUNCTION DIAGNOSIS >



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

EXIT ASSIST FUNCTION : Component Description

INFOID:000000001673000

CONTROL UNITS

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

ADP-20

< FUNCTION DIAGNOSIS >

Switches

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

Sensors

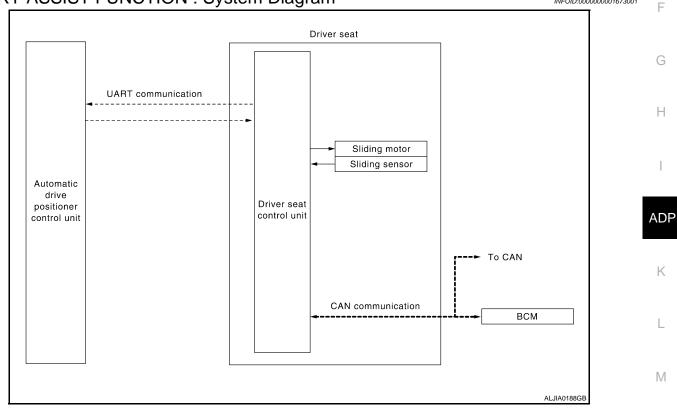
Item	Function	С
Sliding sensor	Detect the front/rear position of seat.	0

OUTPUT PARTS

ltem	Function
Sliding motor	Slide the seat forward/backward.

ENTRY ASSIST FUNCTION

ENTRY ASSIST FUNCTION : System Diagram



ENTRY ASSIST FUNCTION : System Description

INFOID:000000001673002

Ρ

D

Ε

INFOID:000000001673001

OUTLINE

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

NOTE:

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

OPERATION PROCEDURE

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

OPERATION CONDITION

ADP-21

< FUNCTION DIAGNOSIS >

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

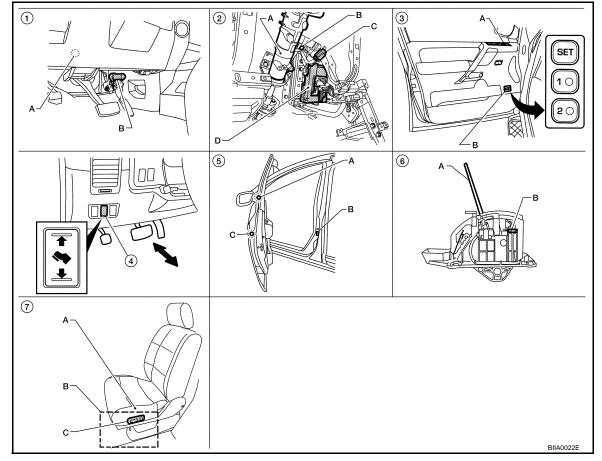
Item	Request status
Seat	The vehicle is not moved after performing the exit assist function.
Switch inputs Power seat switch Pedal adjusting switch Door mirror control switch Set switch Memory switch 	OFF (Not operated)
A/T selector lever	P position

DETAIL FLOW

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

ENTRY ASSIST FUNCTION : Component Parts Location

INFOID:000000001673003



< FUNCTION DIAGNOSIS >

1.	A. Automatic drive positioner control unit M33, M34 B. Pedal adjusting motor E109, E110	2.	 A. Steering column B. A/T device (park position switch) M68 (column shift) C. Key witch and key look colonaid 	3.	A. Door mirror remote control switch D10 B. Seat memory switch D5	А	L
			C. Key switch and key lock solenoid M27 (floor shift) D. BCM M18, M19, M20 (view with instrument panel removed)			В	1
4.	Pedal adjusting switch M96	5.	A. Door mirror LH D4, RH D107B. Front door switch LH B8C. Front door lock assembly LH (key cylinder switch) D14	6.	A. A/T selector lever B. A/T device (park position switch) M203 (floor shift)	С	7
7.	A. Sliding motor LH B204 (driver seat view), reclining motor LH B205, lift- ing motor (front) B206, lifting motor (rear) B207					D)
	B. Driver seat control unit B202, B203 C. Power seat switch LH B208					E	
ΕΝΤΙ	RY ASSIST FUNCTION	: C	omponent Description		INFOID:000000001673004	F	

ENTRY ASSIST FUNCTION : Component Description

CONTROL UNITS

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

INPUT PARTS

Switches

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

Sensors

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

OUTPUT PARTS

Item	Function	Ν
Sliding motor	Slide the seat forward/backward.	

Ο

Ρ

G

ADP

L

DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

< FUNCTION DIAGNOSIS >

DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

Diagnosis Description

INFOID:000000001673005

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

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

CONSULT-III Function

SELF-DIAGNOSIS RESULTS Refer to <u>ADP-115, "DTC Index"</u>.

DATA MONITOR

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

INFOID:000000001673006

DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

< FUNCTION DIAGNOSIS >

Monitor Item	Unit	Main Signals	Selection From Menu	Contents	A
MIR CHNG SW-R	"ON/OFF"	×	×	ON/OFF status judged from the door mirror remote control switch (switching to right) signal.	В
MIR CHNG SW-L	"ON/OFF"	×	×	ON/OFF status judged from the door mirror remote control switch (switching to left) signal.	
PEDAL SW-FR	"ON/OFF"	×	×	ON/OFF status judged from the pedal adjusting switch (for- ward) signal.	С
PEDAL SW-RR	"ON/OFF"	×	×	ON/OFF status judged from the pedal adjusting switch (backward) signal.	D
DETENT SW	"ON/OFF"	×	×	The selector lever position "OFF (P position) / ON (other than P position)" judged from the detention switch signal.	
STARTER SW	"ON/OFF"	×	×	Ignition key switch ON (START, ON) /OFF (ACC, OFF) sta- tus judged from the ignition switch signal.	E
SLIDE PULSE	_	-	×	Value (32768) when battery connections are standard. If it moves backward, the value increases. If it moves forward, the value decreases.	F
RECLN PULSE	_	_	×	Value (32768) when battery connections are standard. If it moves backward, the value increases. If it moves forward, the value decreases.	G
LIFT FR PULSE	_	_	×	Value (32768) when battery connections are standard. If it moves DOWN, the value increases. If it moves UP, the value decreases.	Н
LIFT RR PULSE	_	_	×	Value (32768) when battery connections are standard. If it moves DOWN, the value increases. If it moves UP, the value decreases.	I
MIR/SEN RH U-D	"V"	-	×	Voltage input from door mirror sensor (passenger side) up/ down is displayed.	
MIR/SEN RH R-L	"V"	-	×	Voltage input from door mirror sensor (passenger side) left/ right is displayed.	AD
MIR/SEN LH U-D	"V"	-	×	Voltage input from door mirror sensor (driver side) up/down is displayed.	K
MIR/SEN LH R-L	"∖"	-	×	Voltage input from door mirror sensor (driver side) left/right is displayed.	1 \
PEDAL SEN	"∖"	-	×	Pedal position (voltage) judged from the pedal adjusting sensor signal is displayed.	L

ACTIVE TEST CAUTION: When driving vehicle, do not perform active test.

Test item	Description	Ν
SEAT SLIDE	Activates/deactivates the sliding motor.	
SEAT RECLINING	Activates/deactivates the reclining motor.	
SEAT LIFTER FR	Activates/deactivates the lifting motor (front).	0
SEAT LIFTER RR	Activates/deactivates the lifting motor (rear).	
ADJ PEDAL MOTOR	Activates/deactivates the pedal adjusting motor.	P
MIRROR MOTOR RH	Activates/deactivates the mirror motor (passenger side).	
MIRROR MOTOR LH	Activates/deactivates the mirror motor (driver side).	
MEMORY SW INDCTR	Turns ON/OFF the memory indicator.	

Μ

WORK SUPPORT

DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

< FUNCTION DIAGNOSIS >

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

< COMPONENT DIAGNOSIS >

COMPONENT DIAGNOSIS **U1000 CAN COMM CIRCUIT**

Description

Refer to BCS-27, "Description".

DTC Logic

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1. STEP 1

Turn ignition switch ON and wait at least 3 seconds.

>> GO TO 2

2. STEP 2

Check "Self diagnostic result" with CONSULT-III.

Is the DTC detected?

>> Perform diagnosis procedure. Refer to ADP-27, "Diagnosis Procedure". YES

>> INSPECTION END NO

Diagnosis Procedure

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

Special Repair Requirement

Refer to Owner's Manual.

А

D

F

INFOID:000000001673007 В

INFOID:000000001673008 С

- Н
- ADP
- INFOID:000000001673009
- Κ INFOID:000000001673010
 - - L
 - Μ
 - Ν

Ρ

< COMPONENT DIAGNOSIS >

B2112 SLIDING MOTOR

Description

INFOID:000000001673011

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

DTC Logic

INFOID:000000001673012

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1. STEP 1

Turn ignition switch ON.

>> GO TO 2

2. STEP 2

Check "Self diagnostic result" with CONSULT-III.

Is the DTC detected?

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

NOTE:

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

Diagnosis Procedure

INFOID:000000001673013

1. PERFORM DTC CONFIRMATION PROCEDURE

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

Is the DTC displayed again?

- YES >> GO TO 2
- NO >> Check intermittent incident. Refer to <u>GI-41, "Intermittent Incident"</u>.
- 2. CHECK COMPONENTS

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

>> INSPECTION END

B2113 RECLINING MOTOR

А

Ρ

< COMPONENT DIAGNOSIS >

B2113 RECLINING MOTOR

Description INFOID:000000001673014 The seat reclining motor is installed to the seatback frame. В The seat reclining motor is activated with the driver seat control unit. Tilts the seatback frontward/rearward by changing the rotation direction of reclining motor. DTC Logic INFOID:000000001673015 DTC DETECTION LOGIC D Trouble diagnosis DTC No. DTC detecting condition Possible cause name The driver seat control unit detects the output of re-Е B2113 SEAT RECLINING clining motor output terminal for 0.1 second or more Driver seat control unit even if the reclining switch is not input. DTC CONFIRMATION PROCEDURE F **1**. STEP 1 Turn ignition switch ON. >> GO TO 2 2.STEP 2 Н Check "Self diagnostic result" with CONSULT-III. Is the DTC detected? YES >> Perform diagnosis procedure. Refer to ADP-29, "Diagnosis Procedure". NO >> INSPECTION END NOTE: ADP First perform diagnosis for B2126 if B2126 is detected. Refer to ADP-36, "Diagnosis Procedure (Floor Shift)" Diagnosis Procedure INFOID:000000001673016 Κ 1. PERFORM DTC CONFIRMATION PROCEDURE 1. Turn ignition switch ON. 2. Check "Self diagnostic result" with CONSULT-III. L Erase the DTC. 3. Perform DTC confirmation procedure. Refer to ADP-29, "DTC Logic". 4. Is the DTC displayed again? Μ YES >> GO TO 2 NO >> Check intermittent incident. Refer to GI-41, "Intermittent Incident". CHECK COMPONENTS Ν Refer to ADP-70, "Component Function Check" and ADP-84, "Component Function Check". >> INSPECTION END

B2114 SEAT LIFTER FR

< COMPONENT DIAGNOSIS >

B2114 SEAT LIFTER FR

Description

INFOID:000000001673017

INFOID:000000001673018

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

DTC Logic

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1. STEP 1

Turn ignition switch ON.

>> GO TO 2

2.STEP 2

Check "Self diagnostic result" with CONSULT-III.

Is the DTC detected?

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

NOTE:

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

Diagnosis Procedure

INFOID:000000001673019

1. PERFORM DTC CONFIRMATION PROCEDURE

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

Is the DTC displayed again?

YES >> GO TO 2

NO >> Check intermittent incident. Refer to <u>GI-41, "Intermittent Incident"</u>.

2. CHECK COMPONENTS

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

>> INSPECTION END

B2115 SEAT LIFTER RR

< COMPONENT DIAGNOSIS >

B2115 SEAT LIFTER RR

А Description INFOID:000000001673020 • The lifting motor (rear) is installed to the seat cushion frame. В The lifting motor (rear) is activated with the driver seat control unit. Tilts the seat rear up/down by changing the rotation direction of lifting motor (rear). DTC Logic INFOID:000000001673021 DTC DETECTION LOGIC D Trouble diagnosis DTC No. DTC detecting condition Possible cause name The driver seat control unit detects the output of lift-Е B2115 SEAT LIFTER RR ing motor (rear) output terminal for 0.1 second or Driver seat control unit more even if the lifting switch is not input. DTC CONFIRMATION PROCEDURE F **1**. STEP 1 Turn ignition switch ON. >> GO TO 2 2.STEP 2 Н Check "Self diagnostic result" with CONSULT-III. Is the DTC detected? YES >> Perform diagnosis procedure. Refer to ADP-31, "Diagnosis Procedure". NO >> INSPECTION END NOTE: ADP First perform diagnosis for B2126 if B2126 is detected. Refer to ADP-36, "Diagnosis Procedure (Floor Shift)" **Diagnosis** Procedure INFOID:000000001673022 Κ 1. PERFORM DTC CONFIRMATION PROCEDURE 1. Turn ignition switch ON. 2. Check "Self diagnostic result" with CONSULT-III. L 3. Erase the DTC. Perform DTC confirmation procedure. Refer to ADP-31, "DTC Logic". 4. Is the DTC displayed again? Μ

YES >> GO TO 2

NO >> Check intermittent incident. Refer to <u>GI-41, "Intermittent Incident"</u>.

2. CHECK COMPONENTS

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

>> INSPECTION END

Ν

Ρ

< COMPONENT DIAGNOSIS >

B2117 ADJ PEDAL MOTOR

Description

INFOID:000000001673023

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

DTC Logic

INFOID:000000001673024

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1. STEP 1

Turn ignition switch ON.

>> GO TO 2

2. STEP 2

Check "Self diagnostic result" with CONSULT-III.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to <u>ADP-32, "Diagnosis Procedure"</u>.

NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000001673025

1. CHECK PEDAL ADJUSTING MECHANISM

Check the following.

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

Is the inspection result normal

YES >> GO TO 2

NO >> Repair or replace the malfunctioning part and check again.

2. CHECK FUNCTION

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

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

Is the inspection result normal?

YES >> Pedal adjusting motor circuit is OK.

NO >> GO TO 3

B2117 ADJ PEDAL MOTOR

< COMPONENT DIAGNOSIS >

$\overline{\mathbf{3.}}$ CHECK PEDAL ADJUSTING MOTOR CIRCUIT HARNESS CONTINUITY

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

45 - 2

- : Continuity should exist.
- Check continuity between automatic drive positioner control unit 4 connector M34 (A) terminals 37, 45 and ground.
 - 37 Ground
 - : Continuity should not exist.
 - 45 Ground
- : Continuity should not exist.

ADP-33

- Is the inspection result normal?
- YES >> GO TO 4
- NO >> Repair or replace harness.

 ${f 4.}$ CHECK AUTOMATIC DRIVE POSITIONER CONTROL UNIT OUTPUT SIGNAL

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

unit		
arme	Automatic drive positioner	
	C/U connector	
/)		
)	37, 45	
age		
	└── ® ⊖ <mark>─</mark> ÷	PIIA4806E

Connec-	Terminals		Condition	Voltage (V)	
tor	(+)	(-)	Condition	(Approx.)	
	37	Ground	Pedal adjusting switch ON (FORWARD operation)	Battery voltage	
M34			Other than above	0	
10134	45	Ground	Pedal adjusting switch ON (BACKWARD operation)	Battery voltage	
_			Other than above	0	

Is the inspection result normal?

YES >> Replace pedal adjusting motor.

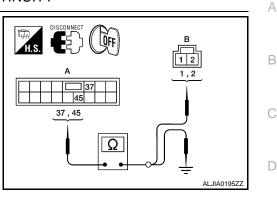
NO >> GO TO 5

 ${f 5.}$ CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

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



Е

F

Н

ADP

Κ

L

Μ

Ν

Ρ

< COMPONENT DIAGNOSIS >

B2120 ADJ PEDAL SENSOR

Description

INFOID:000000001673026

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

DTC Logic

INFOID:000000001673027

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1. STEP 1

Turn ignition switch ON.

>> GO TO 2

2. STEP 2

Check "Self diagnostic result" with CONSULT-III.

Is the DTC is detected?

YES >> Perform diagnosis procedure. Refer to <u>ADP-34, "Diagnosis Procedure"</u>.

NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000001673028

1. CHECK PEDAL ADJUSTING SENSOR SIGNAL

1. Turn ignition switch ON.

2. Select "PEDAL SEN" in "Data monitor" mode with CONSULT-III.

3. Check the pedal adjusting sensor signal under the following condition.

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

Is the value normal?

YES >> Pedal adjusting circuit is OK.

2. CHECK PEDAL ADJUSTING SENSOR CIRCUIT HARNESS CONTINUITY

B2120 ADJ PEDAL SENSOR

< COMPONENT DIAGNOSIS >

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

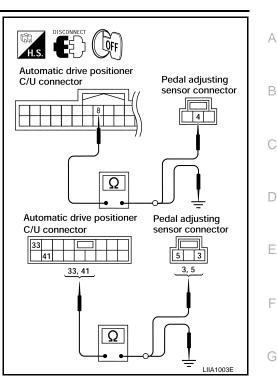
8 - 4	: Continuity should exist.
33 - 3	: Continuity should exist.
41 - 5	: Continuity should exist.

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

8 - Ground	: Continuity should not exist.
33 - Ground	: Continuity should not exist.
41 - Ground	: Continuity should not exist.
in an action was with a sum all	

Is the inspection result normal?

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



Н

F

Κ

L

Μ

Ν

Ο

Ρ

< COMPONENT DIAGNOSIS >

B2126 DETENT SW

Description

INFOID:000000001673029

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

DTC Logic

INFOID:000000001673030

INFOID:000000001673031

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1. STEP 1

Drive the vehicle at 7±4km/h or more.

>> GO TO 2

2. STEP 2

Check "Self diagnostic result" with CONSULT-III.

Is the DTC detected?

- YES >> Perform diagnosis procedure. Refer to <u>ADP-36, "Diagnosis Procedure (Floor Shift)"</u> or <u>ADP-37, "Diagnosis Procedure (Column Shift)"</u>.
- NO >> INSPECTION END

Diagnosis Procedure (Floor Shift)

1. CHECK DTC

Check "Self diagnostic result" for BCM with CONSULT-III.

Are other DTCs detected?

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

2. CHECK DETENTION SWITCH SIGNAL

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

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

Is the status normal?

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

NO >> GO TO 3

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

B2126 DETENT SW

< COMPONENT DIAGNOSIS >

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

6 - 21

: Continuity should exist.

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

6 - Ground

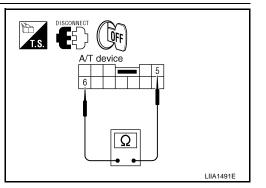
: Continuity should not exist.

Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness.

CHECK PARK POSITION SWITCH



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

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

Is the inspection result normal?

YES >> GO TO 5

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

5. CHECK INTERMITTENT INCIDENT

Refer to GI-41. "Intermittent Incident".

Is the inspection result normal?

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

Diagnosis Procedure (Column Shift)

1. CHECK DTC

Check "Self diagnostic result" for BCM with CONSULT-III.

Are other DTCs detected?

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

2. CHECK DETENTION SWITCH SIGNAL

1. Turn ignition switch ON.

- 2. Select "DETENT SW" in "Data Monitor" mode with CONSULT-III.
- 3. Check detention switch signal under the following condition.

				\cap
Monitor item	Con	Status	0	
DETENT SW	A/T selector lever	P position	OFF	
DETENT SW	A/1 Selector level	Other than above	ON	Р

Is the status normal?

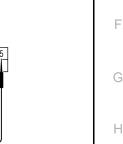
YES >> A/T device (park position switch) circuit is OK.

NO >> GO TO 3

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

ADP-37

喻 H.S Driver seat **O**FF C/U connector A/T device connector 6 Ω LIIA1024E





Μ

Ν

А

В

D

Ε

B2126 DETENT SW

< COMPONENT DIAGNOSIS >

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

8 - 21

: Continuity should exist.

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

21 - Ground

: Continuity should not exist.

Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness.

4. CHECK PARK POSITION SWITCH

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

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

Is the inspection result normal?

YES >> GO TO 5

NO >> Replace A/T device. Refer to <u>TM-215, "Control Device</u> <u>Removal and Installation"</u>.

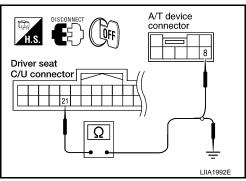
5. CHECK INTERMITTENT INCIDENT

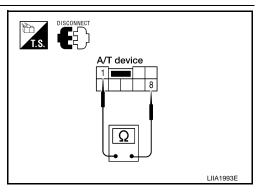
Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit.

NO >> Repair or replace the malfunctioning part.





< COMPONENT DIAGNOSIS >

B2128 UART COMMUNICATION LINE

Description

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

DTC Logic

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1. STEP 1

Turn ignition switch ON.

>> GO TO 2

2. STEP 2

Operate pedal adjusting switch for more than 2 seconds.

>> GO TO 3

3. PROCEDURE 3

Check "Self diagnostic result" with CONSULT-III.

Terminal

1

17

Is the DTC detected?

Driver seat control

unit connector

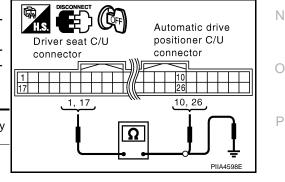
B202

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

Diagnosis Procedure

1. CHECK UART COMMUNICATION LINE CONTINUITY

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



А

D

Е

F

Н

ADP

Μ

INFOID:000000001673032

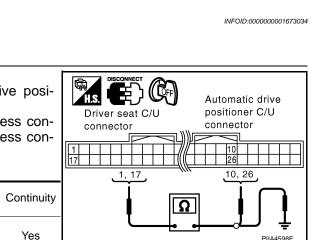
INFOID:000000001673033

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

Automatic drive positioner

control unit connector

M33



ADP-39

Terminal

10

26

B2128 UART COMMUNICATION LINE

< COMPONENT DIAGNOSIS >

Driver seat control unit con- nector	Terminal		Continuity
B202	1	Ground	No
6202	17		INO

Is the inspection result normal?

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

NO >> Repair or replace harness.

POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

POWER SUPPLY AND GROUND CIRCUIT	
BCM	

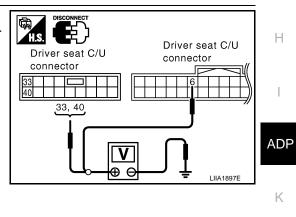
BCM : Diagnosis Procedure INFOID:00000001673035 Refer to BCS-29, "Diagnosis Procedure". INFOID:00000001673036 BCM : Special Repair Requirement INFOID:00000001673036 1. REQUIRED WORK WHEN REPLACING BCM Initialize control unit. Refer to CONSULT-III Operation Manual. >> Work end. DRIVER SEAT CONTROL UNIT DRIVER SEAT CONTROL UNIT : Diagnosis Procedure INFOID:00000001673037

NOTE:

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

- 1. CHECK POWER SUPPLY CIRCUIT
- 1. Turn ignition switch OFF.
- Check voltage between driver seat control unit harness connector and ground.

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



А

В

D

Е

F

L

Μ

Ν

Ρ

Is the inspection result normal?

YES >> GO TO 2

NO

>> Check the following.

• Repair or replace harness between driver seat control unit and fuse block (J/B).

• Circuit breaker.

2. CHECK GROUND CIRCUIT

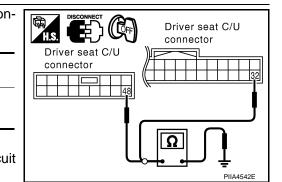
Check continuity between the driver seat control unit harness connector and ground.

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

Is the inspection result normal?

YES >> Driver seat control unit power supply and ground circuit are OK.

NO >> Repair or replace harness.



POWER SUPPLY AND GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

DRIVER SEAT CONTROL UNIT : Special Repair Requirement

INFOID:000000001673038

1.PERFORM ADDITIONAL SERVICE

Perform additional service when removing battery negative terminal.

>> Refer to Owner's Manual. AUTOMATIC DRIVE POSITIONER CONTROL UNIT

AUTOMATIC DRIVE POSITIONER CONTROL UNIT : Diagnosis Procedure

INFOID:000000001673039

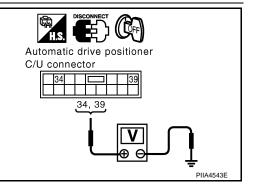
NOTE:

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

1.CHECK POWER SUPPLY CIRCUIT

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

Te				
(+)	Voltage (V)			
Automatic drive positioner control unit connector		(—)	(Approx.)	
M33	34	Ground	Battery voltage	
WIJJ	39	Gibana	Dattery Voltage	



Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace harness.

2. CHECK GROUND CIRCUIT

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

Automatic drive positioner control unit connector	Terminal		Continuity
M33	40	Ground	Yes
INIOS	48		163

Is the inspection result normal?

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

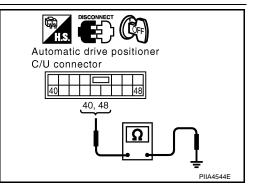
AUTOMATIC DRIVE POSITIONER CONTROL UNIT : Special Repair Requirement

INFOID:000000001673040

1.PERFORM ADDITIONAL SERVICE

Perform additional service when removing battery negative terminal.

>> Refer to Owner's Manual.



SLIDING SWITCH

< COMPONENT DIAGNOSIS >

SLIDING SWITCH

Description

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

Component Function Check

1. CHECK FUNCTION

1. Select "SLIDE SW-FR", "SLIDE SW-RR" in "Data monitor" mode with CONSULT-III.

2. Check sliding switch signal under the following conditions.

Monitor item	Monitor item Condition		Status
SLIDE SW-FR	Cliding quitch (forward)	Operate	ON
	Sliding switch (forward)	Release	OFF
SLIDE SW-RR	Sliding owitch (hookword)	Operate	ON
SLIDE SW-KK	Sliding switch (backward)	Release	OFF

Is the indication normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to <u>ADP-43, "Diagnosis Procedure"</u>.

Diagnosis Procedure

1. CHECK SLIDING SWITCH SIGNAL

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

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

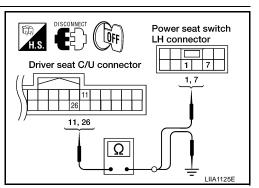
Is the inspection result normal?

2. CHECK SLIDING SWITCH CIRCUIT

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

Driver seat control unit connector	Terminal	Power seat switch LH connector	Terminal	Continuity
B202	11	B208	7	Yes
DZUZ	26	D200	1	103

ADP-43



Driver seat C/U connector

INFOID:0000000001673043



Κ

А

D

Е

F

Н

INFOID:000000001673041

INEOID:000000001673042

Ν

Μ

С

Ρ

PIIA4577E

SLIDING SWITCH

< COMPONENT DIAGNOSIS >

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

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

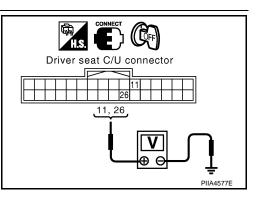
Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK DRIVER SEAT CONTROL UNIT OUTPUT

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



Driver seat control unit	Term	inals	Voltage (V)
connector	(+)	()	(Approx.)
B202	11	Ground	Battery voltage
DZUZ	26	Giouna	ballery vollage

Is the inspection result normal?

YES >> GO TO 4

NO >> Replace driver seat control unit.

4. CHECK SLIDING SWITCH

Refer to ADP-44, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5

NO >> Replace power seat switch LH.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit.

NO >> Repair or replace malfunctioning part.

Component Inspection

1. CHECK SLIDING SWITCH

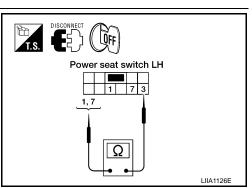
- 1. Turn ignition switch OFF.
- 2. Disconnect power seat switch LH.
- 3. Check continuity between power seat switch LH terminals.

Teri	minal	Condition		Continuity
Power sea	at switch LH			Continuity
	7	Sliding switch (backward)	Operate	Yes
3	1	Shung Switch (Dackward)	Release	No
5	1	Sliding switch (forward)	Operate	Yes
		Shung Switch (IOrward)	Release	No

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch LH.



INFOID:000000001673044

ADP-44

RECLINING SWITCH

< COMPONENT DIAGNOSIS >

RECLINING SWITCH

Description

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

Component Function Check

1.CHECK FUNCTION

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

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

Is the indication normal?

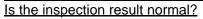
- >> INSPECTION END YES
- NO >> Perform diagnosis procedure. Refer to ADP-45, "Diagnosis Procedure".

Diagnosis Procedure

1. CHECK RECLINING SWITCH SIGNAL

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

Driver seat	Tern	Terminals			Voltage (V)										
control unit connector	(+)	()	Condition		(Approx.)										
	12			Operate (forward)	0										
B202		Ground	Reclining	Release	Battery voltage										
5202	27		Cround	Ground	Crodina	Ground	Cround	Cround	Ground	Giodila	Ground	Giodila	Giouna	switch	Operate (backward)
				Release	Battery voltage										



YES >> GO TO 5

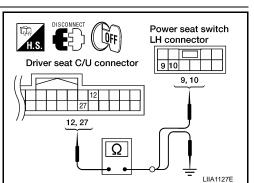
2. CHECK RECLINING SWITCH CIRCUIT

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

Driver seat control unit connector	Terminal	Power seat switch LH connector	Terminal	Continuity
B202	12	B208	9	Yes
BZ0Z	27	6200	10	165

Check continuity between driver seat control unit harness con-4. nector and ground.

ADP-45



seat C/U connector ADP 12, 27 PIIA4580E

Ν

Μ





Е

F

Н

Κ

D

А

INFOID:000000001673045

INEOID:000000001673046

RECLINING SWITCH

< COMPONENT DIAGNOSIS >

Driver seat control unit connector	Terminal	Ground	Continuity
D 000	12		No
B202	27		NO

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK DRIVER SEAT CONTROL UNIT OUTPUT

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

Driver seat control	Termir	als	Voltage (V)
unit connector	(+) (-)		(Approx.)
B202	12	Ground	Battery voltage
B202	27	Ground	Ballery vollage

Is the inspection result normal?

YES >> GO TO 4

NO >> Replace driver seat control unit.

4. CHECK RECLINING SWITCH

Refer to ADP-46, "Component Inspection".

Is the inspection result normal?

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

5. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

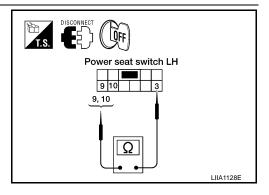
- YES >> Replace driver seat control unit.
- NO >> Repair or replace the malfunctioning part.

Component Inspection

1. CHECK RECLINING SWITCH

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

Terr	ninals	Condition		Continuity
Power sea	at switch LH	Condi		Continuity
	9	Reclining switch	Operate	Yes
3	5	(backward)	Release	No
5	10	Reclining switch	Operate	Yes
	10		Release	No

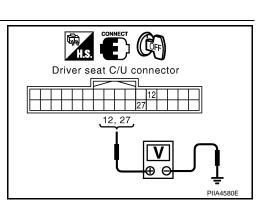


INFOID:000000001673048

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch LH.



LIFTING SWITCH (FRONT)

< COMPONENT DIAGNOSIS >

LIFTING SWITCH (FRONT)

Description

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

Component Function Check

1. CHECK FUNCTION

Select "LIFT FR SW-UP", "LIFT FR SW-DN" in "DATA MONITOR" mode with CONSULT-III. 1.

Check lifting switch (front) signal under the following conditions. 2.

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

Is the indication normal?

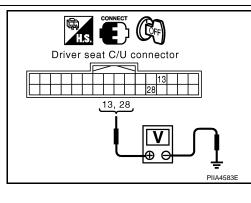
- YES >> INSPECTION END
- NO >> Perform diagnosis procedure. Refer to ADP-47, "Diagnosis Procedure".

Diagnosis Procedure

1. CHECK LIFTING SWITCH SIGNAL

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

Driver seat	Term	ninals	Condition		Voltage (V)
control unit connector	(+)	(-)			(Approx.)
	10			Operate (down)	0V
B202	B202 Ground Switch (front)	Ground	0	Release	Battery voltage
				(front)	Operate (up)
	28			Release	Battery voltage

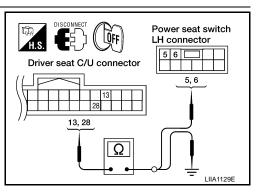


Is the inspection result normal?

2. CHECK LIFTING SWITCH (FRONT) CIRCUIT

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

Driver seat control unit connector	Terminal	Power seat switch LH connector	Terminal	Continuity
B202	13	B208	5	Yes
B202	28	6200	6	165



Κ

Μ

Ν

Ρ

ADP

INFOID:000000001673049

А

INFOID:000000001673050



F

D



LIFTING SWITCH (FRONT)

< COMPONENT DIAGNOSIS >

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

Driver seat control unit connector	Terminal		Continuity
B202	13	Ground	No
D202	28		INO

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK DRIVER SEAT CONTROL UNIT OUTPUT

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

Driver seat control unit	Term	inals	Voltage (V)
connector	(+)	()	(Approx.)
B202	13	Ground	Battery voltage
B202	28	Ground	Ballery vollage

Is the inspection result normal?

YES >> GO TO 4

NO >> Replace driver seat control unit.

4. CHECK LIFTING SWITCH (FRONT)

Refer to ADP-48, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5

NO >> Replace power seat switch LH.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace driver seat control unit.

NO >> Repair or replace the malfunctioning part.

Component Inspection

1. CHECK LIFTING SWITCH (FRONT)

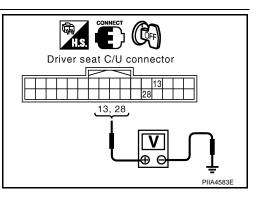
- 1. Turn ignition switch OFF.
- 2. Disconnect power seat switch LH.
- 3. Check continuity between power seat switch LH terminals.

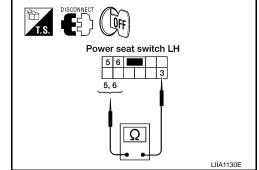
Terr	minal	- Condition		Continuity
Power sea	t switch LH			Continuity
	5	5 Lifting switch front (down)	Operate	Yes
3	5		Release	No
5	6	6 Lifting switch front (up)	Operate	Yes
	0	Lining Switch Holit (up)	Release	No

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch LH.





INFOID:000000001673052

ADP-48

LIFTING SWITCH (REAR)

< COMPONENT DIAGNOSIS >

LIFTING SWITCH (REAR)

Description

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

Component Function Check

1. CHECK FUNCTION

1. Select "LIFT RR SW-UP", "LIFT RR SW-DN" in "Data monitor" mode with CONSULT-III.

2. Check lifting switch (rear) signal under the following conditions.

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

Is the indication normal?

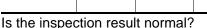
- YES >> INSPECTION END
- NO >> Perform diagnosis procedure. Refer to <u>ADP-49</u>, "Diagnosis Procedure".

Diagnosis Procedure

1. CHECK LIFTING SWITCH (REAR) SIGNAL

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

Driver seat	Term	ninals	Condition Voltage (V) (Approx.)		Voltage (V)
control unit connector	(+)	(–)			
	14			Operate (down)	0
B202	14	Ground	Lifting switch	Release	Battery voltage
D202	29	Giouna	(rear)	Operate (up)	0
	29		(1001)	Release	Battery voltage



YES >> GO TO 5

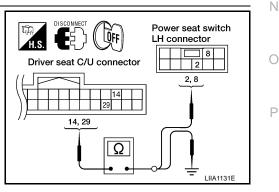
NO >> GO TO 2

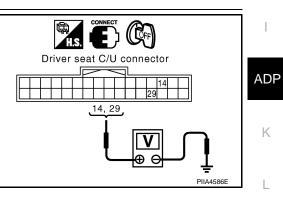
2. CHECK LIFTING SWITCH (REAR) CIRCUIT

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

Driver seat control unit connector	Terminal	Power sear switch LH connector	Terminal	Continuity
B202	14	B208	8	Yes
B202	29	6206	2	162

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





А

D

Е

F

Н

Μ

INFOID:000000001673053

INEOID:000000001673054

LIFTING SWITCH (REAR)

< COMPONENT DIAGNOSIS >

Driver seat control unit connector	Terminal		Continuity
B202	14	Ground	No
B202	29		INO
	10		

<u>Is the inspection result normal?</u>

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK DRIVER SEAT CONTROL UNIT OUTPUT

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

Terminals

Driver seat C/U connector

Voltage (V) connector (Approx.) (+) (-) 14 B202 Ground Battery voltage 29

Is the inspection result normal?

YES >> GO TO 4

Driver seat control unit

NO >> Replace driver seat control unit.

4. CHECK LIFTING SWITCH (REAR)

Refer to ADP-50, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5

NO >> Replace power seat switch LH.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

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

Component Inspection

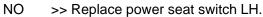
1. CHECK LIFTING SWITCH (REAR)

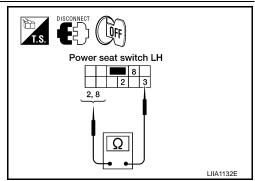
- 1. Turn ignition switch OFF.
- Disconnect power seat switch LH. 2.
- Check continuity between power seat switch LH terminals. 3.

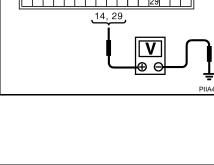
Terr	minal	Condition		Continuity
Power sea	t switch LH			Continuity
	2	Lifting switch rear (up)	Operate	Yes
3	2	Lining Switch rear (up)	Release	No
3	0		Operate	Yes
	8	Lifting switch rear (down)	Release	No

Is the inspection result normal?

YES >> INSPECTION END







< COMPONENT DIAGNOSIS >

PEDAL ADJUSTING SWITCH

Description

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

Component Function Check

1. CHECK FUNCTION

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

Monitor item	Condition	Condition		E
PEDAL SW-FR	Dedal adjusting switch (forward)	Operate	ON	
PEDAL SW-FR	Pedal adjusting switch (forward)	Release	OFF	
PEDAL SW-RR	Pedal adjusting switch (backward)	Operate	ON	F
PEDAL SW-RR	reual aujusting switch (backwaru)	Release	OFF	

Is the indication normal?

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

Diagnosis Procedure

- 1. CHECK PEDAL ADJUSTING SWITCH SIGNAL
- 1. Turn ignition switch ON.
- Check voltage between driver seat control unit harness connector and ground.

Driver seat	Term	ninals	Condition		Voltage (V)	
control unit connector	(+)	()			(Approx.)	
15	Ground	Pedal ad-	Operate (backward)	0		
			Release	Battery voltage		
B202	30	Ground	justing switch	Operate (forward)	0	
	30				Release	Battery voltage

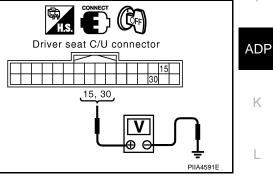
Is the inspection result normal?

YES >> GO TO 5

NO >> GO TO 2

2. CHECK PEDAL ADJUSTING SWITCH CIRCUIT

INFOID:000000001673059	



А

С

D

INFOID:000000001673057

INFOID:000000001673058

Ν

Ρ

Μ

PEDAL ADJUSTING SWITCH

< COMPONENT DIAGNOSIS >

- 1. Turn ignition switch OFF.
- Disconnect driver seat control unit and pedal adjusting switch.
 Check continuity between driver seat control unit harness con-
- nector and pedal adjusting switch harness connector.

Driver seat control unit connector	Terminal	Pedal adjusting switch connector	Terminal	Continuity
B202	15	M96	2	Yes
D202	30	10190	3	165

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

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

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK DRIVER SEAT CONTROL UNIT OUTPUT

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

Driver seat control unit	Tei	rminals	Voltage (V)	
connector	(+)	(-)	(Approx.)	
B202	15	Ground	Battery voltage	
DZUZ	30	Ground	Dattery voltage	

Is the inspection result normal?

YES >> GO TO 4

NO >> Replace driver seat control unit.

4. CHECK PEDAL ADJUSTING SWITCH

Refer to ADP-53. "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5

NO >> Replace pedal adjusting switch.

 ${f 5.}$ CHECK PEDAL ADJUSTING SWITCH GROUND CIRCUIT

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

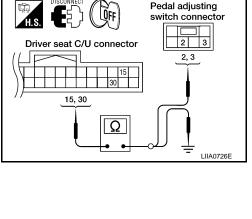
1 - Ground

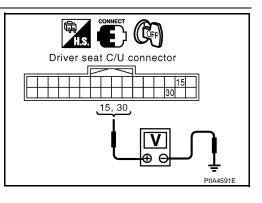
: Continuity should exist.

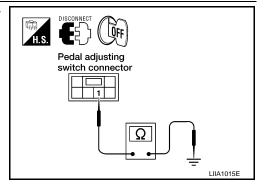
Is the inspection result normal?

YES >> GO TO 6

NO >> Replace or replace harness.







6. CHECK INTERMITTENT INCIDENT

PEDAL ADJUSTING SWITCH

< COMPONENT DIAGNOSIS >

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

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

Component Inspection

1. CHECK PEDAL ADJUSTING SWITCH

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

Ter	minal	Condition		Continuity
Pedal adju	sting switch	Condition		Continuity
	3	Pedal adjusting switch	Operate	Yes
1		(forward)	Release	No
I	2	Pedal adjusting switch	Operate	Yes
		(backward)	Release	No

Is the inspection result normal?

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

INFOID:000000001673060

LIIA1014E

Pedal adjusting switch

2, 3

2 1 3

Ω

А

В

С

D

Ε

F

Н

ADP

Κ

L

Μ

Ν

Ο

Ρ

< COMPONENT DIAGNOSIS >

SEAT MEMORY SWITCH

Description

INFOID:000000001673061

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

Component Function Check

INFOID:000000001673062

1. CHECK FUNCTION

1. Select "MEMORY SW 1", "MEMORY SW 2", "SET SW" in "Data monitor" mode with CONSULT-III.

2. Check seat memory switch signal under the following conditions.

Monitor item	Conc	dition	Status
	Momony quitch 1	Push	ON
MEMORY SW1	Memory switch 1	Release	OFF
MEMORY SW2	Momony quitch 2	Push	ON
	Memory switch 2	Release	OFF
SET SW	Set switch	Push	ON
	Set Switch	Release	OFF

Is the indication normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to <u>ADP-54. "Diagnosis Procedure"</u>.

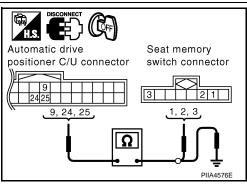
Diagnosis Procedure

INFOID:000000001673063

1. CHECK MEMORY SWITCH CIRCUIT

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

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



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

Terminal		Continuity
9	Ground	
24		No
25		
	9 24	9 Ground 24

Is the inspection result normal?

YES >> GO TO 2

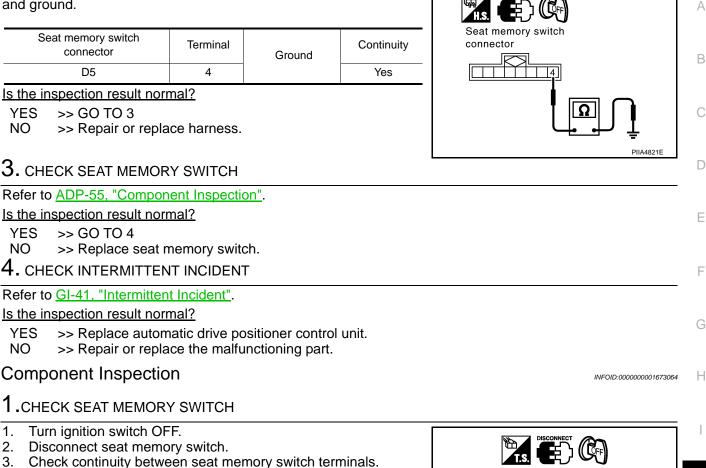
NO >> Repair or replace harness.

2. CHECK MEMORY SWITCH GROUND CIRCUIT

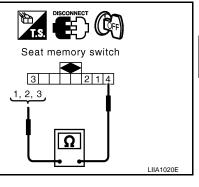
SEAT MEMORY SWITCH

< COMPONENT DIAGNOSIS >

Check continuity between seat memory switch harness connector and ground.



Term	ninal	Condition		Continuity	
Seat mem	ory switch	Condition	Continuity		
	1	Memory switch 1	Push	Yes	
	I		Release	No	
4	2	Memory switch 2	Push	Yes	
+	2	Wentery Switch Z	Release	No	
	2 50	3 Set switch	Set switch	Push	Yes
	5	Oet Switch	Release	No	



Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace seat memory switch. Ν

ADP

Κ

L

Μ

А

Ρ

< COMPONENT DIAGNOSIS >

DOOR MIRROR REMOTE CONTROL SWITCH CHANGEOVER SWITCH

CHANGEOVER SWITCH : Description

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

CHANGEOVER SWITCH : Component Function Check

1. CHECK CHANGEOVER SWITCH FUNCTION

Check the operation on "MIR CHNG SW-R" or "MIR CHNG SW-L" in "DATA MONITOR" mode with CON-SULT-III.

Refer to <u>ADP-24, "CONSULT-III Function"</u>.

Is the inspection result normal?

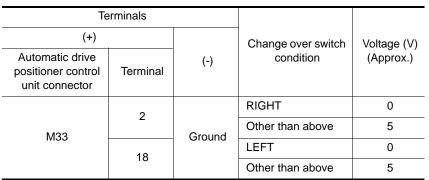
YES >> Changeover switch function is OK.

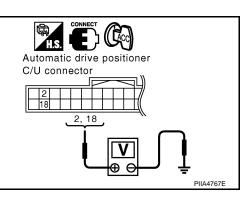
NO >> Refer to <u>ADP-56</u>, "CHANGEOVER SWITCH : Diagnosis Procedure".

CHANGEOVER SWITCH : Diagnosis Procedure

1. CHECK CHANGEOVER SWITCH SIGNAL

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





Is the inspection result normal?

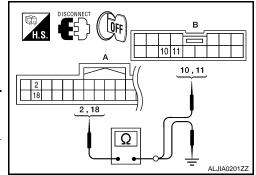
YES >> GO TO 6

NO >> GO TO 2

2. CHECK HARNESS CONTINUITY

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

Automatic drive positioner control unit connector	Terminal	Door mirror re- mote control switch connector	Terminal	Continuity
M33 (A)	2	D10 (B)	11	Yes
10135 (A)	18	ы (в)	10	165



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

INFOID:000000001673066

< COMPONENT DIAGNOSIS >

Automatic drive positioner control unit connector	Termina			Continuity		А
M33 (A)	2 18	Grou	und	No		В
Is the inspection result norm	nal?					
YES >> GO TO 3 NO >> Repair or replace	e harness.					С
3. CHECK DOOR MIRRON	R REMOTE	CONTRO	I SN	/ITCH GROUN	D CIRCUIT	
Check continuity between d tor and ground.	oor mirror ı	emote con	itrol s	witch connec-	H.S.	D
Door mirror remote control switch connector	Termina	l Grour	nd	Continuity		E
D10	7			Yes		_
Is the inspection result norm YES >> GO TO 4 NO >> Repair or replace						F
4. CHECK AUTOMATIC D	RIVE POSI	TIONER C	ONT	ROL UNIT OU	ALJIA0189ZZ	G
 Connect automatic drive Turn ignition switch ON 						Н
 Check voltage between connector and ground. 	n automatio	c drive pos	sitione	er control unit	Automatic drive positioner C/U connector	Ι
Termina	s					
(+)			۰ ۱	/oltage (V)	2,18	ADF
Automatic drive positioner control unit connector	Terminal	(-)		(Approx.)		
M33 —	2 18	Ground		5	PIIA4767E	Κ
Is the inspection result norm	nal?					
YES >> GO TO 5						L
NO >> Replace automa	-	ositioner co	ontrol	unit.		
5. CHECK CHANGEOVER	SWITCH					M
Check changeover switch. Refer to <u>ADP-57, "CHANGE</u>		ITCH : Co	mpon	ent Inspection	2	
Is the inspection result norm		t la side stil				Ν
YES >> Refer to <u>GI-41</u> , NO >> Replace door m	nirror remot	e control s				
6. CHECK INTERMITTEN	T INCIDEN	Т				0
Check intermittent incident. Refer to <u>GI-41</u> , "Intermittent	Incident".					
Is the inspection result norm						Ρ
YES >> Replace automatic drive positioner control unit. NO >> Repair or replace the malfunctioning parts.						
CHANGEOVER SWIT	CH : Co	mponen	t Ins	spection	INFOID:000000001673068	
1. CHECK CHANGEOVER	SWITCH					

< COMPONENT DIAGNOSIS >

Check door mirror remote control switch.

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace door mirror remote control switch. MIRROR SWITCH

MIRROR SWITCH : Description

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

MIRROR SWITCH : Component Function Check

1. CHECK MIRROR SWITCH FUNCTION

Check the operation on "MIR CON SW–UP/DN" and "MIR CON SW–RH/LH" in "DATA MONITOR" mode with CONSULT-III.

Refer to ADP-24, "CONSULT-III Function".

Is the inspection result normal?

YES >> Mirror switch function is OK.

NO >> Refer to <u>ADP-58</u>, "MIRROR SWITCH : Diagnosis Procedure".

MIRROR SWITCH : Diagnosis Procedure

1. CHECK MIRROR SWITCH FUNCTION

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

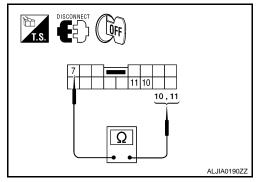
Terminals				
(+)			Mirror switch Condition	Voltage (V)
Automatic drive positioner control unit connector	Terminal	()		(Approx.)
	3	Ground	UP	0
			Other than above	5
	4		LEFT	0
M33			Other than above	5
10155	19		DOWN	0
			Other than above	5
	20		RIGHT	0
	20		Other than above	5

Is the inspection result normal?

YES >> GO TO 6

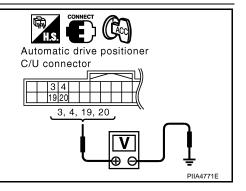
NO >> GO TO 2

2. CHECK HARNESS CONTINUITY



INFOID:000000001673070

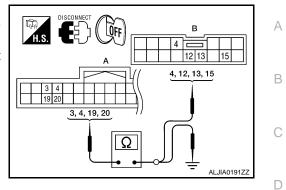
INFOID:000000001673069



< COMPONENT DIAGNOSIS >

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

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



Ε

ADP

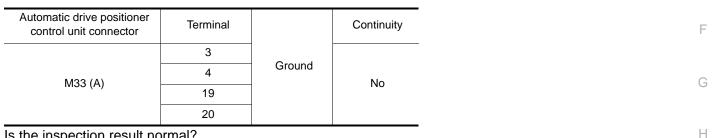
Κ

L

Μ

ALJIA0189ZZ

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

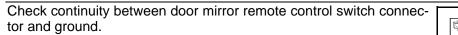


Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

$\mathbf{3.}$ CHECK DOOR MIRROR REMOTE CONTROL SWITCH GROUND CIRCUIT



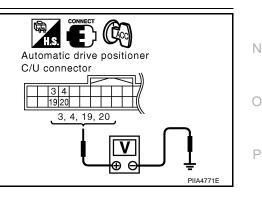
Door mirror remote control switch connector	Terminal	Ground	Continuity		
D10	7		Yes		
Is the inspection result normal?					

NO >> Repair or replace harness.

4. CHECK AUTOMATIC DRIVE POSITIONER CONTROL UNIT OUTPUT SIGNAL

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

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



0

ŨFF

Is the inspection result normal?



< COMPONENT DIAGNOSIS >

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

5. CHECK MIRROR SWITCH

Check mirror switch.

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

Is the inspection result normal?

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

NO >> Replace door mirror remote control switch.

6. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit.

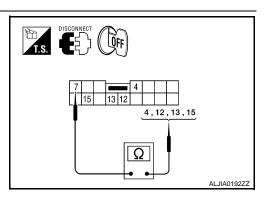
NO >> Repair or replace the malfunctioning parts.

MIRROR SWITCH : Component Inspection

1.CHECK MIRROR SWITCH

Check door mirror remote control switch.

Termir	nal		Continuity	
Door mirror control sy		Mirror switch condition		
4		RIGHT	Yes	
4		Other than above	No	
13	7	LEFT	Yes	
15		Other than above	No	
15		UP	Yes	
15	-	Other than above	No	
12		DOWN	Yes	
12		Other than above	No	



Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace door mirror remote control switch.

POWER SEAT SWITCH GROUND CIRCUIT

< COMPONENT DIAGNOSIS >

POWER SEAT SWITCH GROUND CIRCUIT

Diagnosis Procedure

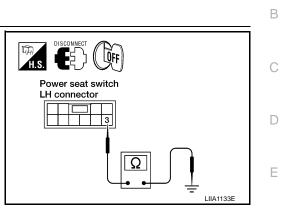
1. CHECK POWER SEAT SWITCH LH GROUND CIRCUIT

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

Power seat switch LH connector	Terminal	Ground	Continuity
B208	32		Yes

Is the inspection result normal?

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





Κ

L

Μ

Ν

Ο

Ρ

F

Н

А

< COMPONENT DIAGNOSIS >

DETENTION SWITCH

Description

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

Component Function Check

1. CHECK FUNCTION

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

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

Is the indication normal?

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

Diagnosis Procedure (Floor Shift)

1. CHECK DTC WITH "BCM"

Check "Self Diagnostic Result" for BCM with CONSULT-III.

Is any other DTC detected?

YES >> Check the DTC.

NO >> GO TO 2

2. CHECK PARK POSITION SWITCH INPUT SIGNAL

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

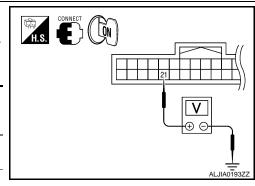
Driver seat	Terminal				Voltage (V)
control unit connector	(+)	(-)	Condition		(Approx.)
B202	B202 21 Ground A/T selec-	A/T selec-	P position	Battery volt- age	
6202	21	Giouna	tor lever	Other than above	0V

Is the inspection result normal?

YES >> GO TO 4

NO >> GO TO 3

3. CHECK PARK POSITION SWITCH CIRCUIT



INFOID:000000001673074

INFOID:000000001673075

DETENTION SWITCH

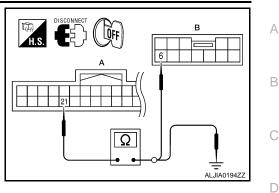
< COMPONENT DIAGNOSIS >

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

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

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

	А			Continuity
_	Connector	Terminal		Continuity
_	B202	21	Ground	No



B202	21
Is the inspection res	sult normal?

- YES
- >> GO TO 4
- NO >> Repair or replace harness.
- **4.** CHECK INTERMITTENT INCIDENT

Is the inspection result normal?

- YES >> Replace driver seat control unit.
- >> Repair or replace the malfunctioning part. NO
- **Diagnosis Procedure (Column Shift)**
- 1. CHECK DTC WITH "BCM"

Check "Self Diagnostic Result" for BCM with CONSULT-III. Is any other DTC detected?

-	
YES	>> Check the DTC.

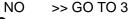
2. CHECK PARK POSITION SWITCH INPUT SIGNAL

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

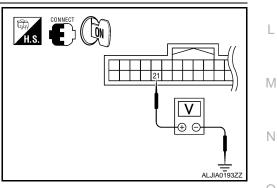
Driver seat	Terr	minal			Voltage (V)
control unit connector	(+)	(-)			(Approx.)
B202	3202 21 Ground	Ground	A/T selec-	P position	Battery volt- age
0202	21	Ground	tor lever	Other than above	0V

Is the inspection result normal?

YES >> GO TO 4



 ${f 3.}$ CHECK PARK POSITION SWITCH CIRCUIT



Ρ

Е

F

Н

ADP

Κ

DETENTION SWITCH

< COMPONENT DIAGNOSIS >

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

Driver seat cont	rol unit	A/T de	evice	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B202	21	M68	8	Yes

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

Driver seat co	ontrol unit		Continuity
Connector	Terminal	Ground	Continuity
B202	21		No

Is the inspection result normal?

YES >> GO TO 4

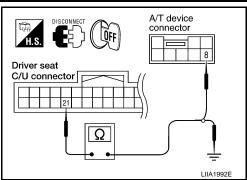
NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

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



FRONT DOOR SWITCH (DRIVER SIDE)

< COMPONENT DIAGNOSIS >

COMPONENT DIAGNOSIS : FRONT DOOR SWITC		DE)			
Description	Υ.	,		INFOID:000000001673077	А
Detects front door LH open/close	e condition.				В
Component Function Che				INFOID:000000001673078	D
1. CHECK FUNCTION					С
1. Select "DOOR SW-DR" in "E)ata monitor" mode w	ith CONSULT-II			C
2. Check the front door switch					D
Monitor item		Condition		Status	
DOOR SW-DR	Front door switch LH	Open		ON	Е
le the increation regult normal?		Close		OFF	
Is the inspection result normal? YES >> INSPECTION END					F
NO >> Perform diagnosis p "Component Inspect		DP-65, "Diagno	osis Procedure (Crew	<u>Cab)"</u> or <u>ADP-67</u> ,	Γ
Diagnosis Procedure (Cre					0
				INFOID:000000001673079	G
1. CHECK FRONT DOOR SWI	TCH LH CIRCUIT				
 Disconnect BCM. Check continuity between B 	CM connector and fro	ont door switch		Front door	Н
LH connector.				switch LH connector T.S.	
Front	door switch				I
BCM connector Terminal LH	connector				
M19 47 3. Check continuity between B	B8 2	Yes			ADP
3. Check continuity between B	Cimiconnector and gr	ouna.			
BCM connector Terminal	Ground	Continuity		LIIA1027E	K
M19 47	Croand	No			
<u>Is the inspection result normal?</u> YES >> GO TO 2					L
NO >> Repair or replace ha					
2. CHECK FRONT DOOR SWI	TCH LH				M
Refer to <u>ADP-66</u> . "Component Ir	spection (Crew Cab)				
<u>Is the inspection result normal?</u> YES >> GO TO 3					Ν
NO >> Replace front door s					
3. CHECK INTERMITTENT INC					0
Refer to <u>GI-41, "Intermittent Incid</u> Is the inspection result normal?	<u>lent"</u> .				
YES >> Replace BCM. Refe NO >> Repair or replace the			<u>on"</u> .		Ρ
Diagnosis Procedure (Kin	01			INFOID:000000001674188	
1. CHECK FRONT DOOR SWI					

ADP-65

FRONT DOOR SWITCH (DRIVER SIDE)

< COMPONENT DIAGNOSIS >

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

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

3. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
M19	47	Ground	No

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace harness.

2. CHECK FRONT DOOR SWITCH LH GROUND CIRCUIT

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

Front door switch LH connector	Terminal	Ground	Continuity
B8	3		Yes

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

 $\mathbf{3.}$ CHECK FRONT DOOR SWITCH LH

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

Is the inspection result normal?

YES >> GO TO 3

NO >> Replace front door switch LH.

CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace BCM. Refer to <u>BCS-50, "Removal and Installation"</u>.

NO >> Repair or replace the malfunctioning part.

Component Inspection (Crew Cab)

1. CHECK FRONT DOOR SWITCH LH

- 1. Turn ignition switch OFF.
- 2. Disconnect front door switch LH.

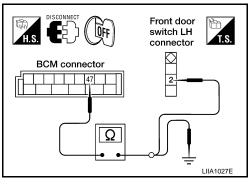
3. Check continuity between front door switch LH terminals.

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

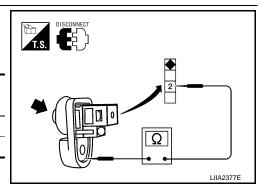
Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace front door switch LH.



ALJIA0221ZZ	



FRONT DOOR SWITCH (DRIVER SIDE)

< COMPONENT DIAGNOSIS >

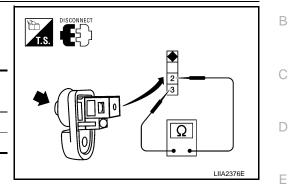
Component Inspection (King Cab)

А

1. CHECK FRONT DOOR SWITCH LH

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

Terminal				
		Conditio	Continuity	
Front door	switch LH			
2	з	Front door switch	Pushed	No
2	5	LH	Released	Yes



Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace front door switch LH.

Н

F

G

ADP

Κ

L

M

Ν

0

Р

SLIDING SENSOR

< COMPONENT DIAGNOSIS >

SLIDING SENSOR

Description

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

Component Function Check

1. CHECK FUNCTION

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

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

Is the indication normal?

YES >> INSPECTION END

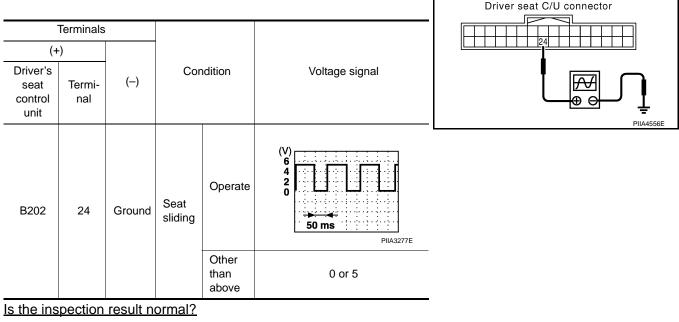
NO >> Perform diagnosis procedure. Refer to <u>ADP-68, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:000000001673083

1. CHECK SLIDING SENSOR SIGNAL

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



YES >> GO TO 4

NO >> GO TO 2

2. CHECK SLIDING SENSOR CIRCUITS

ADP-68

INFOID:000000001673081

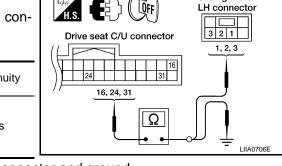
INEOID:000000001673082

SLIDING SENSOR

< COMPONENT DIAGNOSIS >

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

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



GA)

Sliding motor

А

В

D

Ε

F

Н

ADP

Κ

L

Μ

Ν

Ρ

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

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

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK SEAT OPERATION

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

Is the inspection result normal?

YES >> Replace sliding motor LH. (Built in seat slide cushion frame).

NO >> Replace driver seat control unit.

4. CHECK INTERMITTENT INCIDENT

Is the inspection result normal?

YES >> Replace driver seat control unit.

NO >> Repair or replace the malfunctioning part.

RECLINING SENSOR

< COMPONENT DIAGNOSIS >

RECLINING SENSOR

Description

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

Component Function Check

1. CHECK FUNCTION

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

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

Is the indication normal?

YES >> INSPECTION END

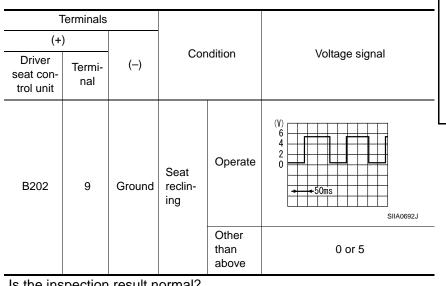
NO >> Perform diagnosis procedure. Refer to ADP-70, "Diagnosis Procedure".

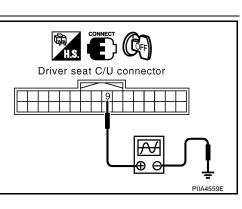
Diagnosis Procedure

INFOID:000000001673086

1. CHECK RECLINING SENSOR SIGNAL

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





Is the inspection result normal?

YES >> GO TO 4

>> GO TO 2 NO

2. CHECK RECLINING SENSOR CIRCUIT

INFOID:000000001673084

INEOID-000000001673085

RECLINING SENSOR

Ġħ)

H.S

Es)

9

Drive seat C/U connector

9, 31

QFF

Ω

Reclining motor

jūr

1 2

1, 2

LIIA0707E

LH connector

А

В

D

Ε

F

Н

ADP

Κ

L

Μ

Ν

Ρ

< COMPONENT DIAGNOSIS >

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

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

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

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

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

1. Connect driver seat control unit and reclining motor LH connector.

- 2. Check seat operation (except reclining operation) with memory function. <u>Is the operation normal?</u>
- YES >> Replace reclining motor LH. (Built in seat slide cushion frame.)
- NO >> Replace driver seat control unit.
- **4.** CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

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

LIFTING SENSOR (FRONT)

< COMPONENT DIAGNOSIS >

LIFTING SENSOR (FRONT)

Description

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

Component Function Check

1.CHECK FUNCTION

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

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

Is the indication normal?

YES >> INSPECTION END

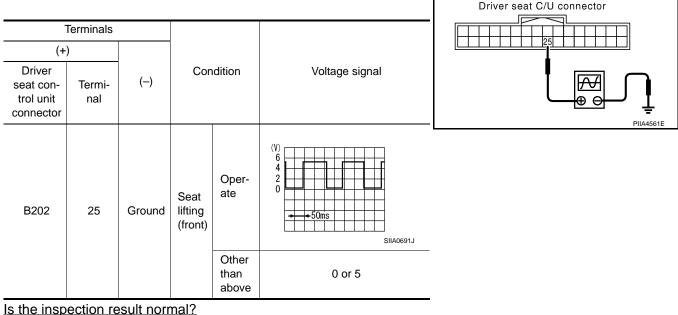
NO >> Perform diagnosis procedure. Refer to <u>ADP-72, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:000000001673089

1. CHECK LIFTING SENSOR (FRONT) SIGNAL

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



YES >> GO TO 4

NO >> GO TO 2

2. CHECK LIFTING SENSOR (FRONT) CIRCUIT

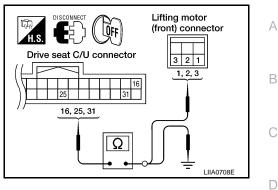
INFOID:000000001673087

LIFTING SENSOR (FRONT)

< COMPONENT DIAGNOSIS >

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

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



Ε

F

Н

ADP

Κ

L

Μ

Ν

Ρ

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

Driver seat control unit connector	Terminal		Continuity
	16	Ground	
B202	25		No
	31		
Is the inspection resu	ult normal?		
YES >> GO TO 3			
	r replace harn	ess.	
3. CHECK SEAT OF	PERATION		

- 1. Connect driver seat control unit and lifting motor (front) connector.
- 2. Check seat operation [except lifting (front) operation] with memory function.
- Is the operation normal?
- YES >> Replace lifting motor (front). (Built in seat slide cushion frame.)
- NO >> Replace driver seat control unit.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

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

< COMPONENT DIAGNOSIS >

LIFTING SENSOR (REAR)

Description

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

Component Function Check

1. CHECK FUNCTION

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

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

Is the indication normal?

YES >> INSPECTION END

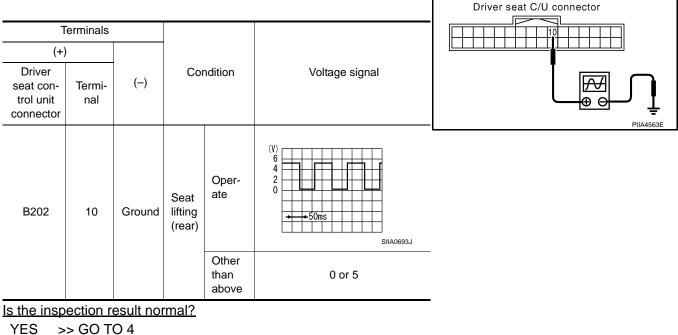
NO >> Perform diagnosis procedure. Refer to <u>ADP-74, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:000000001673092

1. CHECK LIFTING SENSOR (REAR) SIGNAL

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



NO >> GO TO 2

2. CHECK LIFTING SENSOR (REAR) CIRCUIT

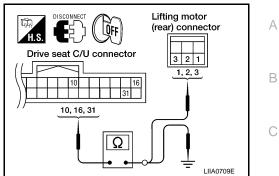
INFOID:000000001673090

LIFTING SENSOR (REAR)

< COMPONENT DIAGNOSIS >

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

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



D

Ν

Ο

Ρ

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

Driver seat control unit connector	Terminal		Continuity	-				
	10	Ground		_				
B202	16		No					
	31							
Is the inspection result	normal?			-				
YES >> GO TO 3								
NO >> Repair or r	•	SS.						
3. CHECK SEAT OPE	RATION							
1. Connect driver sea						- 43		
2. Check the seat op		ot lifting (rear) of	operation] with r	memo	ry tuno	ction.		
<u>Is the operation normal</u> YES >> Replace lif		or) (Ruilt in co	eat slide cushior	n from	a)			
NO >> Replace di				mann	e.)			
4. CHECK INTERMIT								
Refer to GI-41, "Interm	ittent Incident	•"					 	
Is the inspection result		<u> </u>						
YES >> Replace di		trol unit.						
		alfunctioning p	art.					

ADP-75

< COMPONENT DIAGNOSIS >

PEDAL ADJUSTING SENSOR

Description

• The pedal adjusting sensor is installed to the pedal assembly.

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

Component Function Check

INFOID:000000001673094

INFOID:000000001673093

1. CHECK FUNCTION

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

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

Is the indication normal?

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

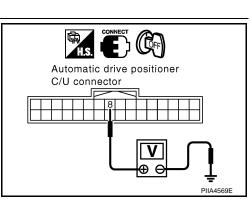
Diagnosis Procedure

INFOID:000000001673095

1. CHECK PEDAL ADJUSTING SENSOR SIGNAL

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

	Terminal					
(+)			O an dition		Voltage (V)	
Automatic drive position- er control unit	Terminal	(-)	Condition		Voltage (V) (Approx.)	
			Pedal as-	Forward	0.5	
M33	8	Ground	sembly position	Backward	4.5	



Is the inspection result normal?

YES >> GO TO 4

NO >> GO TO 2

2. CHECK PEDAL ADJUSTING SENSOR CIRCUIT

PEDAL ADJUSTING SENSOR

< COMPONENT DIAGNOSIS >

1. Turn ignition switch OFF.

- 2. Disconect automatic drive positioner control unit and pedal adjusting sensor.
- Check continuity between automatic drive positioner control unit harnnes connector and pedal adjusting sensor harness connector.

Automatic drive posi- tioner control unit connector	Terminal	Pedal adjusting sensor connector	Terminal	Continuity
M33	8		4	
M34	33	E110	3	Yes
11/134	41		5	

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

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

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK DOOR MIRROR OPERATION

1. Connect automatic drive positioner control unit connector and pedal adjusting sense	sor.
--	------

2. Turn ignition switch ON.

3. Check door mirror operation with memory function.

Is the operation normal?

YES >> Replace pedal adjusting sensor. (Built in pedal adjusting motor.)

NO >> Replace automatic drive positioner control unit.

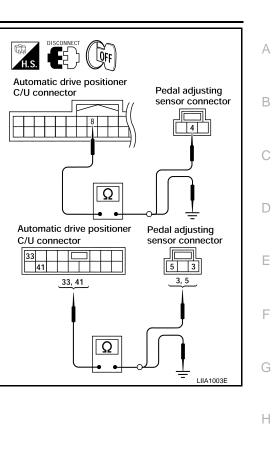
4. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit.

NO >> Repair or replace the malfunctioning part.



ADP

Κ

L

Μ

Ν

< COMPONENT DIAGNOSIS >

MIRROR SENSOR DRIVER SIDE

DRIVER SIDE : Description

• The mirror sensor LH is installed to the door mirror LH.

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

DRIVER SIDE : Component Function Check

1. CHECK FUNCTION

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

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

Is the indication normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to <u>ADP-78, "DRIVER SIDE : Diagnosis Procedure"</u>.

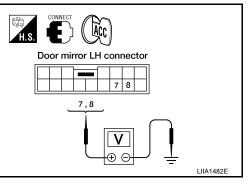
DRIVER SIDE : Diagnosis Procedure

INFOID:000000001673098

1. CHECK DOOR MIRROR LH SENSOR SIGNAL

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

T	erminals				
(+)			Condition		Voltage (V)
Door mirror LH connector	Terminal	(-)	(Approx.)		
	7			Close to peak	3.4
D4	1	Ground	Door mirror	Close to valley	0.6
D4	0		LH	Close to right edge	3.4
	8			Close to left edge	0.6



Is the inspection result normal?

YES >> GO TO 5

NO >> GO TO 2

2. CHECK DOOR MIRROR LH SENSOR CIRCUIT 1

INEOID:000000001673097

MIRROR SENSOR

< COMPONENT DIAGNOSIS >

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

Automatic drive positioner control unit connector	Terminal	Door mirror LH connector	Terminal	Continuity
M33	6	D4	7	Yes
IVISS	22	D4	8	165

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

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

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK DOOR MIRROR LH SENSOR CIRCUIT 2

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

Automatic drive positioner control unit connector	Terminal	Door mirror LH connector	Terminal	Continuity
M34	33	D4	5	Yes
10134	41	D4	6	163

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

Automatic drive positioner control unit connector	Ierminal		Continuity	
M34	33	Ground	No	
10134	41			

Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness.

CHECK PEDAL ADJUSTING OPERATION

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

Is the operation normal?

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

5. CHECK INTERMITTENT INCIDENT

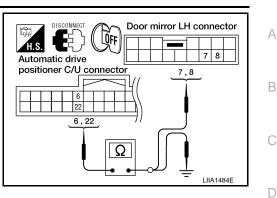
Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit.

NO >> Repair or replace the malfunctioning part.





Е

F

Μ

Ν

Н DISCONNEC Door mirror LH connector ŨFF בל א 5 6 Automatic drive 5,6 positioner C/U connector 33 41 ADP 33 , 41 Ω Κ LIIA1483E

< COMPONENT DIAGNOSIS >

PASSENGER SIDE

PASSENGER SIDE : Description

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

PASSENGER SIDE : Component Function Check

1. CHECK FUNCTION

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

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

Is the indication normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to <u>ADP-80, "PASSENGER SIDE : Diagnosis Procedure"</u>.

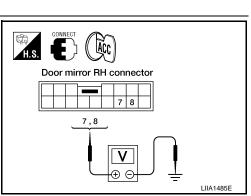
PASSENGER SIDE : Diagnosis Procedure

INFOID:000000001673101

1. CHECK DOOR MIRROR RH SENSOR SIGNAL

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

	Terminals															
(+)					Voltage (V)											
Door mirror RH con- nector	Terminal	(-)	Condition		(Approx.)											
	7	7			Close to peak	3.4										
D107	1	Crownd	Crownd	Crownd	Cround	Ground	Cround	Cround	Cround	Cround	Crownd	Cround	D	Cround Door mirror	Close to valley	0.6
8	Ground	RH	Close to right edge	3.4												
			Close to left edge	0.6												



Is the inspection result normal?

YES >> GO TO 5

NO >> GO TO 2

2. CHECK DOOR MIRROR RH SENSOR HARNESS CONTINUITY

MIRROR SENSOR

< COMPONENT DIAGNOSIS >

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

Automatic drive posi- tioner control unit connector	Terminal	Door mirror RH connector	Terminal	Continuity
M33	5	D107	7	Yes
IVISS	21	5107	8	165

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

Automatic drive positioner control unit connector	Terminal		Continuity
M33	5	Ground	No
WI33	21		NO

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK DOOR MIRROR RH SENSOR POWER SUPPLY CIRCUIT

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

Automatic drive posi- tioner control unit connector	Terminal	Door mirror RH connector	Terminal	Continuity
M34	33	D107	5	Yes
10134	41		6	165

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

Automatic drive positioner control unit connector	Terminal		Continuity	
M34	33	Ground	No	
11/134	41		INO	

Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness.

4. CHECK PEDAL ADJUSTING OPERATION

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

Is the operation normal?

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

5. CHECK INTERMITTENT INCIDENT

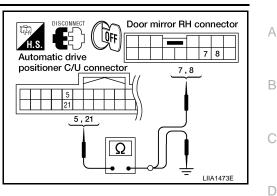
Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit.

NO >> Repair or replace the malfunctioning part.





Е

F

L

Μ

Ν

Н DISCONNE Door mirror RH connector ŨFF 5 6 Automatic drive 5,6 positioner C/U connector 33 41 ADP 33 , 41 Ω Κ LIIA1486E

SLIDING MOTOR

< COMPONENT DIAGNOSIS >

SLIDING MOTOR

Description

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

Component Function Check

1. CHECK FUNCTION

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

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

Is the operation of relevant parts normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to <u>ADP-82, "Diagnosis Procedure"</u>.

Diagnosis Procedure

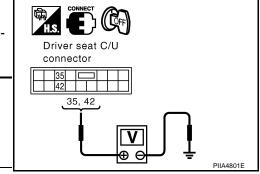
INFOID:000000001673104

1. CHECK SLIDING MOTOR LH POWER SUPPLY

1. Turn the ignition switch ACC.

Terminal

- 2. Perform "Active test" ("SEAT SLIDE") with CONSULT-III
- 3. Check voltage between driver seat control unit harness connector and ground.



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

Is the inspection result normal?

YES >> Replace sliding motor LH. (Built in seat slide cushion frame.)

NO >> GO TO 2

2. CHECK SLIDING MOTOR LH CIRCUIT

INFOID:000000001673102

SLIDING MOTOR

< COMPONENT DIAGNOSIS >

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

Driver seat control unit connector	Terminal	Sliding motor LH connector	Terminal	Continuity
B203	35	B204	6	Yes
	42	B204	4	162

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

Driver seat control unit connector	Terminal		Continuity
B203	35	Ground	Νο
	42		NO

Is the inspection result normal?

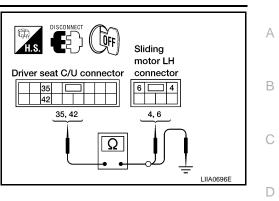
- YES >> GO TO 3
- NO >> Repair or replace harness.

3. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

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



1

Н

Ε

F

ADP

L

Ν

0

Р

RECLINING MOTOR

< COMPONENT DIAGNOSIS >

RECLINING MOTOR

Description

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

Component Function Check

1. CHECK FUNCTION

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

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

Is the operation of relevant parts normal?

YES >> INSPECTION END

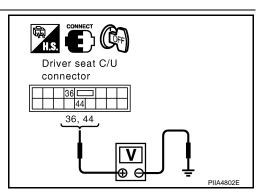
NO >> Perform diagnosis procedure. Refer to <u>ADP-84, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:000000001673107

- 1. CHECK RECLINING MOTOR LH POWER SUPPLY
- 1. Turn the ignition switch ACC.
- 2. Perform "Active test" ("SEAT RECLINING") with CONSULT-III
- 3. Check voltage between driver seat control unit harness connector and ground.

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



Is the inspection result normal?

YES >> Replace reclining motor LH. (Built in seat back frame.)

2. CHECK RECLINING MOTOR LH CIRCUIT

2

INFOID:000000001673105

RECLINING MOTOR

< COMPONENT DIAGNOSIS >

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

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

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

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

Is the inspection result normal?

YES >> GO TO 3

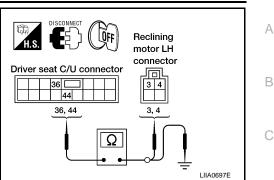
NO >> Repair or replace harness.

3. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

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



D

Ε

F

- G
- Н

ADP

K

L

M

Ν

0

LIFTING MOTOR (FRONT)

< COMPONENT DIAGNOSIS >

LIFTING MOTOR (FRONT)

Description

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

Component Function Check

1. CHECK FUNCTION

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

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

Is the operation of relevant parts normal?

YES >> INSPECTION END

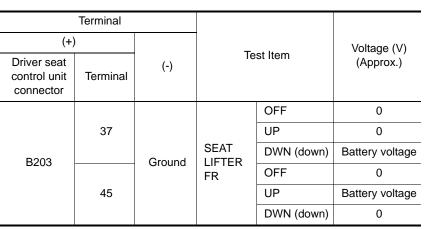
NO >> Perform diagnosis procedure. Refer to <u>ADP-86, "Diagnosis Procedure"</u>.

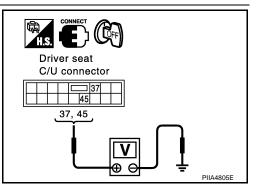
Diagnosis Procedure

INFOID:000000001673110

1. CHECK LIFTING MOTOR (FRONT) POWER SUPPLY

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





Is the inspection result normal?

YES >> Replace lifting motor (front). (Built in seat slide cushion frame.)

NO >> GO TO 2

2. CHECK LIFTING MOTOR (FRONT) CIRCUIT

INFOID:000000001673108

LIFTING MOTOR (FRONT)

< COMPONENT DIAGNOSIS >

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

Driver seat control unit connector	Terminal	Lifting motor (front) connector	Terminal	Continuity
B203	37	B206	6	Yes
B203	45	5200	4	163

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

Driver seat control unit connector	Terminal		Continuity
B203	37	Ground	No
6203	45		INU

Is the inspection result normal?

YES >> GO TO 3

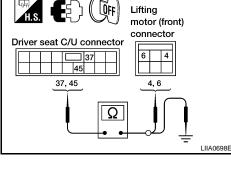
NO >> Repair or replace harness.

3. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

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



(h)



Н

А

В

С

D

Ε

F



Κ

L

Μ

Ν

0

LIFTING MOTOR (REAR)

< COMPONENT DIAGNOSIS >

LIFTING MOTOR (REAR)

Description

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

Component Function Check

1. CHECK FUNCTION

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

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

Is the operation of relevant parts normal?

YES >> INSPECTION END

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

Diagnosis Procedure

INFOID:000000001673113

1. CHECK LIFTING MOTOR (REAR) POWER SUPPLY

1. Turn the ignition switch OFF.

Terminal

Terminal

38

39

(+)

Driver seat

control unit

connector

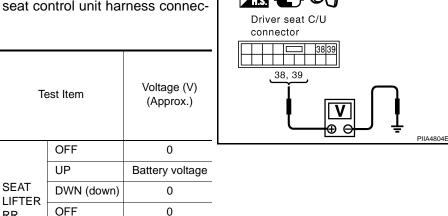
B203

Perform "Active test" ("SEAT LIFTER RR") with CONSULT-III 2.

(-)

Ground

Check voltage between driver seat control unit harness connec-3. tor and ground.



0

Battery voltage

Is the inspection result normal?

YES >> Replace lifting motor (rear). (Built in seat slide cushion frame.)

RR

UP

DWN (down)

ADP-88

NO >> GO TO 2

2. CHECK LIFTING MOTOR (REAR) CIRCUIT

INFOID:000000001673112

LIFTING MOTOR (REAR)

< COMPONENT DIAGNOSIS >

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

Driver seat control unit connector	Terminal	Lifting motor (rear) connector	Terminal	Continuity
P202	38	P207	6	Yes
B203	39	B207	4	165

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

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

Is the inspection result normal?

YES >> GO TO 3

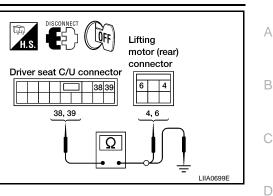
NO >> Repair or replace harness.

3. CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

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



I

Н

Ε

F

ADP

Κ

L

Μ

Ν

Ο

PEDAL ADJUSTING MOTOR

< COMPONENT DIAGNOSIS >

PEDAL ADJUSTING MOTOR

Description

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

Component Function Check

1. CHECK FUNCTION

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

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

Is the operation of relevant parts normal?

YES >> INSPECTION END

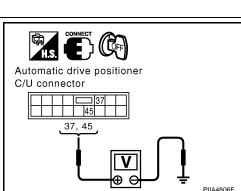
NO >> Perform diagnosis procedure. Refer to <u>ADP-90, "Diagnosis Procedure"</u>.

Diagnosis Procedure

1. CHECK PEDAL ADJUSTING MOTOR POWER SUPPLY

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

	Terminal				
(+)				Voltage	
Automatic drive posi- tioner con- trol unit connector	Terminal	(-) Test Item			
	37		ADJ PED- AL MOTOR	OFF	0
				RR (backward)	0
M34		Ground		FR (forward)	Battery voltage
10134		Giouna		OFF	0
	45			RR (backward)	Battery voltage
				FR (forward)	0



Is the inspection result normal?

YES >> Replace pedal adjusting motor.

NO >> GO TO 2

2. CHECK PEDAL ADJUSTING MOTOR CIRCUIT

INFOID:000000001673114

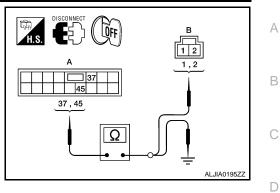
INFOID:000000001673115

PEDAL ADJUSTING MOTOR

< COMPONENT DIAGNOSIS >

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

Automatic drive positioner control unit connector	Terminal	Pedal adjusting motor connector	Terminal	Continuity	
M34 (A)	37	E109 (B)	1	Yes	
1010-4 (71)	45	E103 (B)	2	103	



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

Automatic driv control unit		Terminal		Continuity	
M24	(A)	37	Ground	No	
10134	M34 (A)	45		No	
Is the inspect	tion result r	ormal?			
YES >> GO TO 3 NO >> Repair or replace harness.					
_	•	•			
-	3. CHECK INTERMITTENT INCIDENT				
	Refer to <u>GI-41, "Intermittent Incident"</u> .				
Is the inspect					
YES >> Replace automatic drive positioner control unit. NO >> Repair or replace the malfunctioning part.					

Κ

ADP

L

Μ

Ν

0

< COMPONENT DIAGNOSIS >

DOOR MIRROR MOTOR

Description

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

Component Function Check

1. CHECK DOOR MIRROR MOTOR FUNCTION

Check the operation with "MIRROR MOTOR RH" and "MIRROR MOTOR LH" in "ACTIVE TEST" mode with CONSULT-III

Refer to ADP-24, "CONSULT-III Function".

Is the inspection result normal?

YES >> Door mirror motor function is OK.

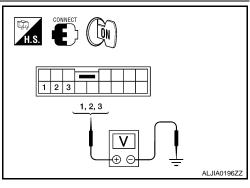
NO >> Refer to <u>ADP-92</u>, "Diagnosis Procedure".

Diagnosis Procedure

1. CHECK DOOR MIRROR MOTOR INPUT SIGNAL

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

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



Is the inspection result normal?

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

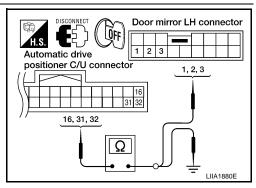
2. CHECK HARNESS CONTINUITY

1. Turn ignition switch OFF.

- Disconnect automatic drive positioner control unit connector and door mirror.
- 3. Check continuity between automatic drive positioner control unit connector and door mirror connector.

Door	mirror	LH	

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



INFOID:000000001673117

INFOID:000000001673118

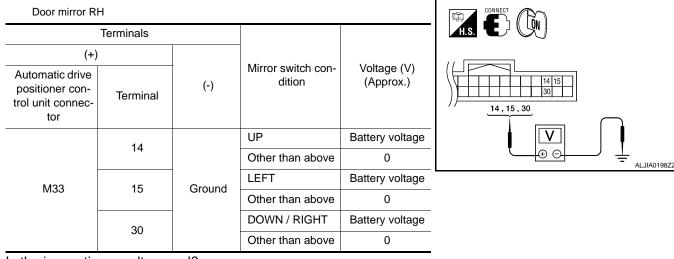
DOOR MIRROR MOTOR

< COMPONENT DIAGNOSIS >

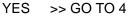
Automatic drive p							Door mirror RH connector	А
tioner control unit nector		ninal		r mirror onnector	Terminal	Continuity	Automatic drive positioner C/U connector	
	1	4			1			В
M33	1	5	D	107	2	Yes)	
	3	30		_	3			С
4. Check conti connector a Door mirror LH			utoma	tic drive	position	er control un		D
Automatic drive po er control unit con		Termina	al		С	ontinuity		
		16		Groun	d			E
M33		31				No		
		32						F
Door mirror RH	, i							Г
Automatic drive po er control unit con		Termina	al		С	ontinuity		G
		14		Groun	d			
M33		15				No		
		30						Н
Is the inspection	result nor	mal?						
YES >> GO								I
	air or repla							
-							UTPUT SIGNAL	
 Connect aut Turn ignition 			sitione	er contro	l unit.			ADF
0			omati	c drive	positione	er control un		
connector a	nd ground.							
Door mirror LH								K
								Κ
	Terminals			-				K
(+)	Terminals	_			switch	Voltage (V)	- () <u>16,31,32</u> <u>16,31,32</u>	K
	Terminals Terminal		(-)		r switch dition	Voltage (V) (Approx.)		L
(+) Automatic drive positioner control	Terminal	_	(-)	con				K L M
(+) Automatic drive positioner control			(-)	con DOWN	dition	(Approx.)		L
(+) Automatic drive positioner control unit connector	Terminal	_		con DOWN	dition / RIGHT	(Approx.) Battery voltage	e	L
(+) Automatic drive positioner control	Terminal	_	(-) ound	Con DOWN Other th UP	dition / RIGHT	(Approx.) Battery voltag 0	e	L
(+) Automatic drive positioner control unit connector	Terminal	_		Con DOWN Other th UP	dition / RIGHT an above	(Approx.) Battery voltag 0 Battery voltag		L

DOOR MIRROR MOTOR

< COMPONENT DIAGNOSIS >



Is the inspection result normal?



NO >> Replace automatic drive positioner control unit.

4. CHECK DOOR MIRROR MOTOR

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

Is the inspection result normal?

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

Component Inspection

1. CHECK DOOR MIRROR MOTOR-I

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

Is the inspection result normal?

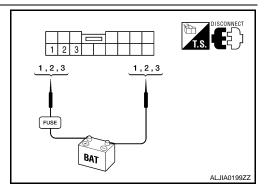
YES >> GO TO 2

NO >> Replace door mirror.Refer to <u>MIR-23, "Door Mirror Assembly"</u>.

2. CHECK DOOR MIRROR MOTOR-II

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

Door mirror connector	Term	ninal	Operational direction
	(+)	(-)	
D4 (LH) D107 (RH)	3	2	RIGHT
	2	3	LEFT
	1	3	UP
	3	1	DOWN



Is the inspection result normal?

YES >> INSPECTION END.

NO >> Replace door mirror. Refer to <u>MIR-23, "Door Mirror Assembly"</u>.

SEAT MEMORY INDICATOR LAMP

< COMPONENT DIAGNOSIS >

SEAT MEMORY INDICATOR LAMP

Description

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

Component Function Check

1. CHECK FUNCTION

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

	Te	est item		Description			
		OFF				OFF	
MEMORY SW	INDCTR	ON-1	Ν	Memory switch ind	licator	Indicator 1: ON	
		ON-2				Indicator 2: ON	
the operation	of relevan	t parts normal?					
	PECTION						
NO >> Per	form diagr	nosis procedure. R	efer to AD	<u>P-95, "Diagnos</u>	<u>is Procedure"</u> .		
Diagnosis P	rocedur	е				INFOID:00000000167312	
. CHECK SEA		RY INDICATOR CI	IRCUIT				
. Turn ignition 2. Disconnect memory sw	automatio	FF. c drive positioner	control u	init and seat		Seat memory switch connector	
6. Check conti	inuity betw	een automatic driv d seat memory sw			Automatic drive position C/U connector	er 6,7	
Automatic drive positioner control unit connector	Terminal	Seat memory switch connector	Terminal	Continuity)) <u>12, 13</u> Ω		
	12	D5	6	Yes			
M33	13	05	7	162			

Automatic drive position- er connector	Terminal		Continuity		
M33	12	Ground	Ground		
M33	13		NO		
s the inspection result normal?					

YES >> GO TO 2

NO >> Repair or replace harness.

2. CHECK MEMORY INDICATOR POWER SUPPLY

А

В

С

D

0

Ρ

INFOID:000000001673121

SEAT MEMORY INDICATOR LAMP

< COMPONENT DIAGNOSIS >

Check voltage between seat memory switch harness connector and ground.

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

Is the inspection result normal?

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

Refer to ADP-96, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4

NO >> Replace seat memory switch.

CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

Is the inspection result normal?

>> Replace automatic drive positioner control unit. YES

>> Repair or replace the malfunctioning part. NO

Component Inspection

1. CHECK SEAT MEMORY INDICATOR

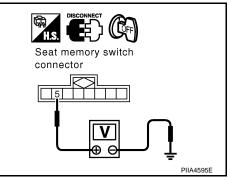
- Disconnect seat memory switch. 1.
- 2. Check continuity between seat memory switch terminals.

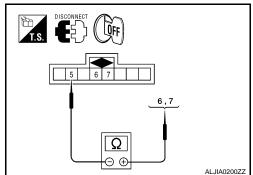
Terr	Terminal						
Seat men	Continuity						
(+)	(-)						
6	5	Yes					
7		165					

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace seat memory switch.





ECU DIAGNOSIS DRIVER SEAT CONTROL UNIT

Reference Value

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

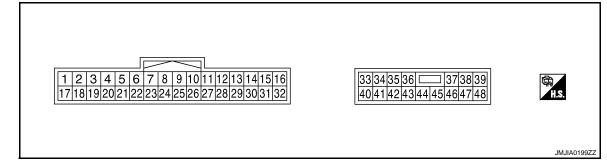
Monitor Item	Conc	lition	Value/Status				
		Push	ON				
SET SW	Set switch	Release	OFF	D			
		Push	ON				
MEMORY SW1	Memory switch 1	Release	OFF	E			
	Manager avitable 0	Push	ON				
MEMORY SW2	Memory switch 2	Release	OFF				
	Oliding owitch (front)	Operate	ON	F			
SLIDE SW-FR	Sliding switch (front)	Release	OFF				
SLIDE SW-RR	Sliding switch (rear)	Operate	ON	G			
SLIDE SW-RR	Sliding switch (rear)	Release	OFF	0			
RECLN SW-FR	Baclining quitch (front)	Operate	ON				
RECLIN SW-FR	Reclining switch (front)	Release	OFF	Н			
	Declining switch (rear)	Operate	ON				
RECLN SW-RR	Reclining switch (rear)	Release	OFF				
LIFT FR SW-UP	Lifting quitch front (up)	Operate	ON				
LIFT FR SW-UP	Lifting switch front (up)	Release	OFF				
	Lifting quitch front (down)	Operate	ON	AD			
IFT FR SW-DN	Lifting switch front (down)	Release	OFF				
	Lifting owitch roor (up)	Operate	ON				
LIFT RR SW-UP	Lifting switch rear (up)	Release	OFF	— K			
		Operate	ON				
LIFT RR SW-DN	Lifting switch rear (down)	Release	OFF	L			
	Mirror switch	Up	ON				
MIR CON SW-UP		Other than above	OFF				
MIR CON SW-DN	Mirror owitch	Down	ON	M			
WIR CON SW-DN	Mirror switch	Other than above	OFF				
MIR CON SW-RH	Mirror switch	Right	ON	N			
WIR CON SW-RH		Other than above	OFF				
	Mirror switch	Left	ON				
MIR CON SW-LH		Other than above	OFF	0			
	Changeouer quiteb	Right	ON				
MIR CHNG SW-R	Changeover switch	Other than above	OFF				
	Changeover switch	Left	ON	— P			
MIR CHNG SW-L	Changeover switch	Other than above	OFF				
	Dodal adjusting switch	Forward	ON				
PEDAL SW-FR	Pedal adjusting switch	Other than above	OFF				
	Dodal adjusting switch	Backward	ON				
PEDAL SW-RR	Pedal adjusting switch	Other than above	OFF				

INFOID:000000001673125 В

< ECU DIAGNOSIS >

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

TERMINAL LAYOUT



PHYSICAL VALUES

< ECU DIAGNOSIS >

DRIVER SEAT CONTROL UNIT

Term	ninal No.	Wire	Description				Voltage (V)
+	-	color	Signal name	Input/ Output	Conditior	1	(Approx)
1	Ground	L	UART LINE (RX)	Input	Ignition switch ON		(V) 6 4 2 0 1 ms PIIA4813E
3		L	CAN-H		_		_
6	Ground	0	Ignition switch (START)I	Input	Ignition switch	OFF START	0 Battery voltage
9	Ground	L/R	Reclining sensor sig- nal	Input	Seat reclining	Operate	(V) 6 2 0 ••••50ms SIIA0692J
						Stop	0 or 5
10	Ground	W	Lifting sensor (rear) signal	Input	Seat lifting (rear)	Operate	(V) 6 2 0 • • • • 50ms SIIA0693J
						Stop	0 or 5
11	Ground	R/B	Sliding switch back- ward signal	Input	Sliding switch	Operate (back- ward)	0
						Release	Battery voltage
12	Ground	O/B	Reclining switch back- ward signal	Input	Reclining switch	Operate (back- ward)	0
						Release	Battery voltage
13	Ground	L/B	Lifting switch (front) down signal	Input	Lifting switch (front)	Operate (down)	0
			-		•	Release	Battery voltage
14	Ground	G/W	Lifting switch (rear) down signal	Input	Lifting switch (rear)	Operate (down)	0
						Release	Battery voltage
15	Ground	L/Y	Pedal switch backward signal	Input	Pedal switch	Operate (back- ward)	0
						Release	Battery voltage
16	Ground	W	Sensor power supply	Output	—		5

< ECU DIAGNOSIS >

Term	ninal No.		Description				
+	-	Wire color	Signal name	Input/ Output	Condition	า	Voltage (V) (Approx)
17	Ground	W	UART LINE (TX)	Output	Ignition switch ON		(V) 6 4 2 0 2 ms
19		Р	CAN-L	_			
			A/T device (park posi-			P position	0
21	Ground	L/R	tion switch)	Input	A/T selector lever	Except P position	Battery voltage
24	Ground	Y/G	Sliding sensor signal	Input	Seat sliding	Operate	(V) 4 2 0 50 ms PIIA3277E
						Stop	0 or 5
25	Ground	LG	Lifting sensor (front) signal	Input	Seat lifting (front)	Operate	(V) 6 4 2 0 ••••50ms SIIA0691J
						Stop	0 or 5
26	Ground	P/B	Sliding switch forward signal	Input	Sliding switch	Operate (forward)	0
						Release	Battery voltage
27	Ground	G/B	Reclining switch for- ward signal	Input	Reclining switch	Operate (forward)	0
						Release	Battery voltage
28	Ground	Y/B	Lifting switch (front) up signal	Input	Seat lifting switch (front)	Operate (up)	0
						Release	Battery voltage
29	Ground	R/W	Lifting switch (rear) up signal	Input	Seat lifting switch (rear)	Operate (up)	0
						Release	Battery voltage
30	Ground	R	Pedal switch forward signal	Input	Pedal switch	Operate (forward)	0
			- gridi			Release	Battery voltage
31	Ground	L/Y	Sensor ground	_			0
32	Ground	В	Ground (signal)				0
33	Ground	L/B	Battery power supply	Input	—		Battery voltage

< ECU DIAGNOSIS >

Tern	ninal No.	Wire	Description				Voltage (V)	٥
+	-	color	Signal name	Signal name Input/ Output		n	(Approx)	A
35	Ground	V/W	Sliding motor forward output signal	Output	Seat sliding	Operate (forward)	Battery voltage	В
			ouput signal			Release	0	
36	Ground	Y/G	Reclining motor for- ward output signal	Output	Seat reclining	Operate (forward)	Battery voltage	С
			ward output signal			Release	0	
37	Ground	BR	Lifting motor (front) down output signal	Output	Seat lifting (front)	Operate (down)	Battery voltage	D
			down output signal			Stop	0	
38	Ground	B/W	Lifting motor (rear) up output signal	Output	Seat lifting (rear)	Operate (up)	Battery voltage	E
			ouiput signai			Stop	0	
39	Ground	Y	Lifting motor (rear) down output signal	Output	Seat lifting (rear)	Operate (down)	Battery voltage	F
			down output signal			Stop	0	
40	Ground	Y/R	Battery power supply	Input			Battery voltage	G
42	Ground	O/B	Sliding motor back- ward output signal	Output	Seat sliding	Operate (back- ward)	Battery voltage	Н
						Stop	0	
44	Ground	Y/R	Reclining motor back- ward output signal	Output	Seat reclining	Operate (back- ward)	Battery voltage	I
						Stop	0	
45	Ground	GR	Lifting motor (front) up output signal	Output	Seat lifting (front)	Operate (up)	Battery voltage	AD
						Stop	0	
48	Ground	B/W	Ground (power)				0	K

L

M

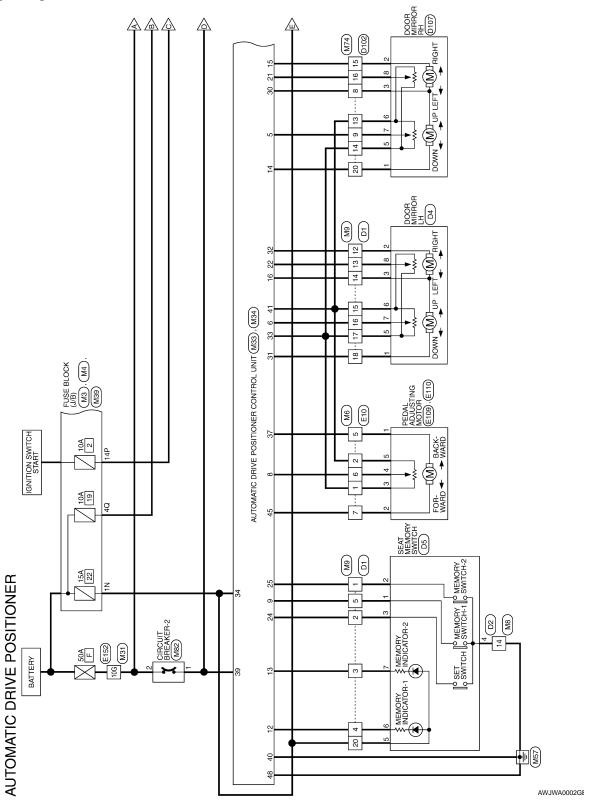
Ν

0

< ECU DIAGNOSIS >

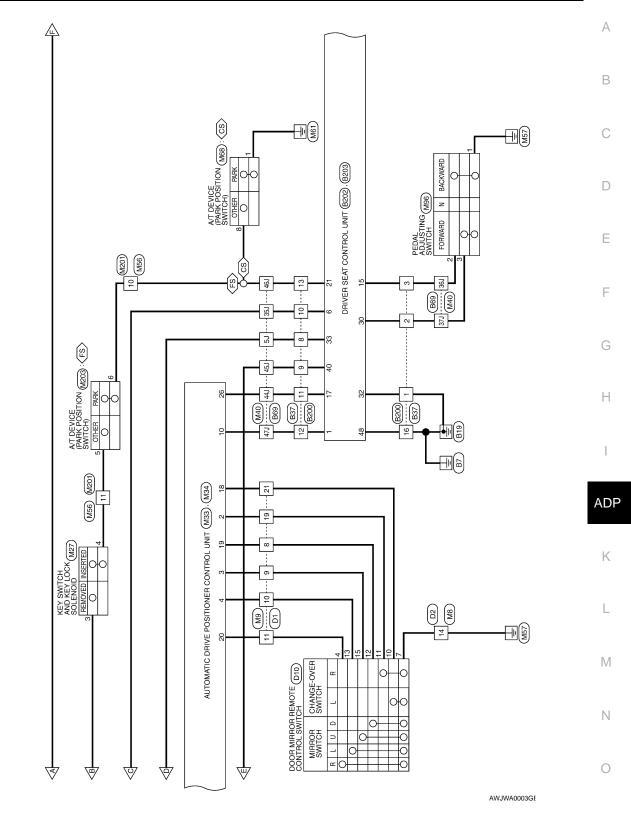
Wiring Diagram





< ECU DIAGNOSIS >

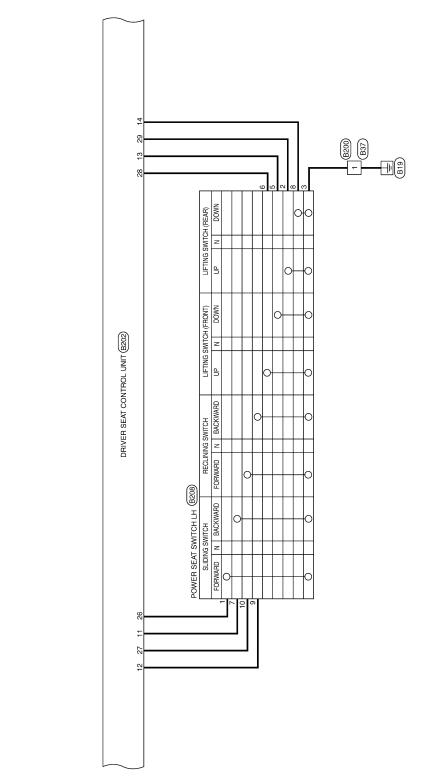
(FS): FLOOR SHIFT (CS): COLUMN SHIFT



< ECU DIAGNOSIS >

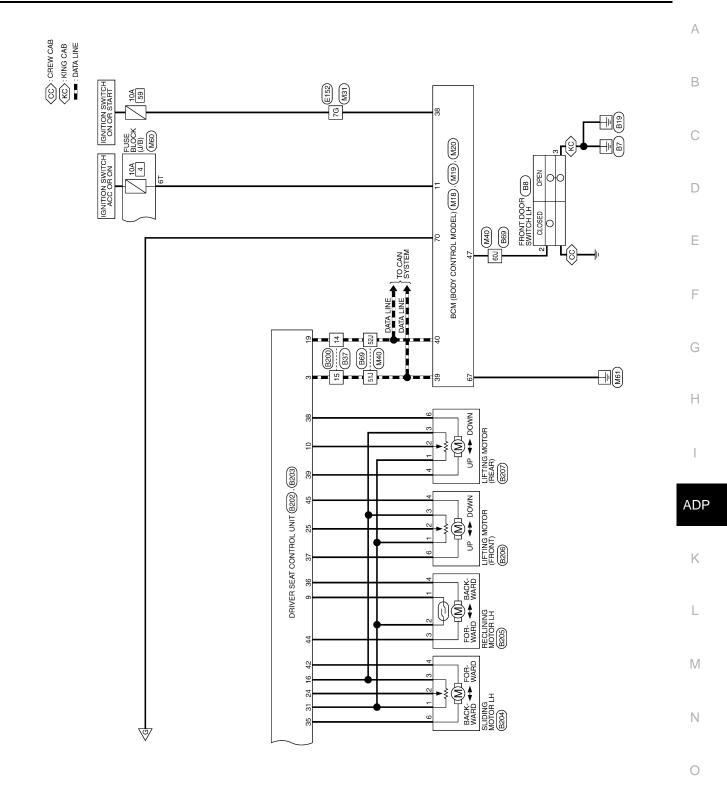
4

ᄫ



AWJWA0004GE

< ECU DIAGNOSIS >



AWJWA0005GE

Connector No. M4 Connector Name FUSE BLOCK (J/B) Connector Color WHITE AUTOMATIC DRIVE POSITIONER CONNECTORS

< ECU DIAGNOSIS >

Connector No. M6 Connector Name WIRE TO WIRE

Connector Color WHITE

H.S.

E

 7P
 6P
 5P
 4P
 3P
 2P
 1P

 16P
 15P
 14P
 13P
 12P
 11P
 10P
 9P
 8P

H.S.

E

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

	ſ	2N 1N	5N 4N]
			7N 6N 5N	L
	L	3N	N8	
200				

H.S.

佢

	Η
	Signal Name
]	Color of Wire

Т

Y/R

Terminal No. Ę

Signal Name	AUTO_DRPO	
Color of Wire	0	
Terminal No.	14P	

Signal Name	AUTO_DRPO	
Color of Wire	0	
rminal No.	14P	

Signal Name

Color of Wire

Terminal No.

T T

W/G

N ß 9 ~

W/L

-

T T. 1

G

BR/Y

œ

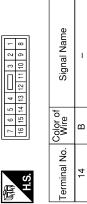
Signal Name	I	I	I	I	I	I	I	I	I	1	I	I	I	I
Color of Wire	SB	Y/B	W/N	GB	B/B	σ	0	N/G	Σ	W/L	æ	Ъ	Y/R	BR/W
Terminal No.	ø	ი	10	11	12	13	14	15	16	17	18	19	20	21



Signal Name	I	I	I	I	-
Color of Wire	P/L	G/O	Y/G	д.	LG/B
Terminal No.	Ŧ	2	3	4	5

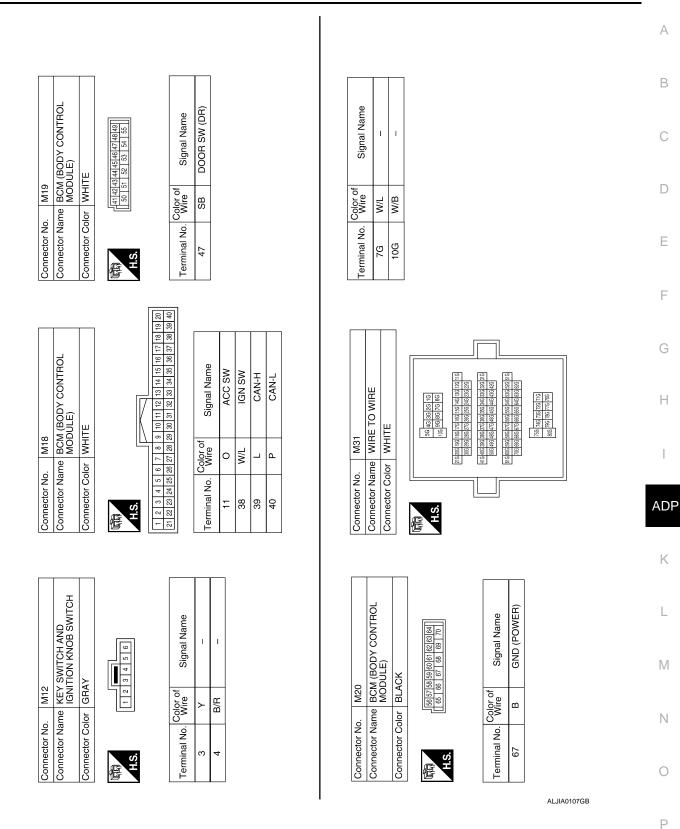


Connector No.



ALJIA0106GB

DRIVER SEAT CONTROL UNIT



< ECU DIAGNOSIS >

ADP-107

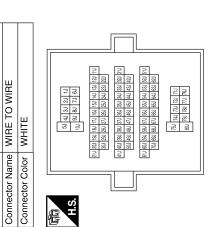
Connector No. M33	M33	Terminal No Wind	Color of	Cicnal Nama	Con
Connector Name	Connector Name ALITOMATIC DRIVE		MIE		Cont
	POSITION CONTROL UNIT	10	_	TX	
Connector Color WHITE	WHITE	12	٩	MEMORY1_IND	Con
		13	У/G	MEMORY2_IND	4
晤		14	GR/R	RH_MTR_(UP-DN)	
H.S.		15	N/R	RH_MTR(LT)	H
		16	0	LH_MTR_(COM)	

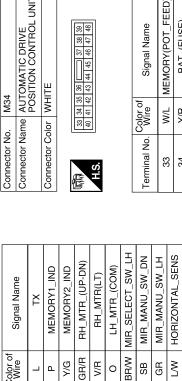
9 10 11 12 13 14 15 16 25 28 29 29 30 31 32	Signal Name	MIR_SELECT_SW_RH	MIR_MANU_SW_UP	MIR_MANU_SW_LH	VERTICAL_SENS_RH	VERTICAL_SENS_LH	PEDAL_POTENTION	MEMORY1_SW
6 7 8 9 22 23 24 2	Color of Wire	ГG	Y/B	W/V	R/B	ζ	BR/Y	LG/B
H.S. H.S. 17 18 19 20 21	Terminal No.	2	ო	4	5	9	8	6

Connector No. M39 Connector Name FUSE BLOCK (J/B) Connector Color WHITE		
Connector Name FUSE BLOCK (J/B) Connector Color WHITE	Connector No.	M39
Connector Color WHITE	Connector Name	FUSE BLOCK (J/B)
	Connector Color	WHITE
	明 H.S.	30 20 10 80 70 50 50 40



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





	_							
Signal Name	MEMORY(POT_FEED)	BAT_(FUSE)	FORWARD	ВАТ(РТС)	(SIC) (SIC)	MEMORY(POT_RET)	PEDAL_POTENTION	GND(POWER)
Color of Wire	W/L	Y/R	ŋ	L/B	B/W	W/G	В	В
Terminal No.	33	34	37	39	40	41	45	48

HORIZONTAL_SENS

G

Ž

SB GВ

18 19 21 23 SET_SW

G/0

22 25 26 30

MEMORY2_SW

Р/L

Ж

≥

≻ œ

LH_MTR_(UP-DWN) RH_MTR_(COM)

LH_MTR_(LT)

ВВ

32 31

Connector No. | M40

Signal Name	1	I	I	I	I	I	I	1	1	1	1
Color of Wire	L/B	0	ΓΛ	Я	Μ	Y/R	L/R	_	Γ	٩	SB
Terminal No.	5J	35J	36J	G75	644	45J	46J	47J	51J	52J	F09

⊢			

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

< ECU DIAGNOSIS >

ALJIA0108GB

DRIVER SEAT CONTROL UNIT

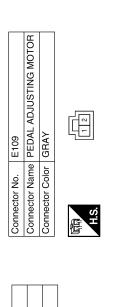
< ECU DIAGNOSIS >	DRIVER SEAT COM		
			A
			В
M74 e WIRE TO WIRE PBROWN 9 8 7 6 5 4 3 2 1 20191817161514131221110	Signal Name	M201 WIRE TO WIRE WHITE signal Name signal Name 	С
M74 M74 Ior BROW	Color of Wire W/G Wire W/G W/G W/L W/C Color of L/W C W/L C//R C//R C//R C//R C//R C//R C//R C/		D
Connector No. M74 Connector Name WIRE TO WIRE Connector Color BROWN	Terminal No. 8 9 13 14 15 16 20 20	Connector No. Connector Name Connector Name Connector Color 10 11 11 R	E
			F
	e	AG A	G
M60 FUSE BLOCK (J/B) WHITE	Signal Name	M96 PEDAL ADJUSTING SWITCH BROWN BROWN BROWN BROWN 	Н
	Mire of O O		I
Connector No. Connector Name Connector Color	Terminal No. 6T	Connector No. Connector Name Connector Color H.S. Terminal No. Q0 W	ADP
			К
	ame	Vame RF2-2	L
1 1	Signal Name	M82 CIRCUIT BREAKER-2 GRAV e Signal Name	M
	B/R B/R		Ν
Connector No. Connector Name Connector Color	Terminal No. 10 11	Connector No. Connector Name Connector Color Terminal No. Color 2 W	0
		ALJIA0109GB	

Ρ

NITD/ **`**

< ECU DIAGNOSIS >

DRIVER SEAT CONTROL UNIT



Terminal N	1	0			
		Γ			
Signal Name	I	I	I	I	I
Color of Wire	W/L	W/G	9	BR/Y	Я

Signal Name

Color of Wire

ö

I

Т

G œ

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

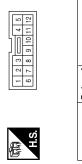
Connector Name WIRE TO WIRE

Connector No. E10

Connector Color WHITE

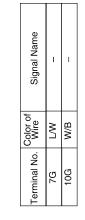
H.S.H

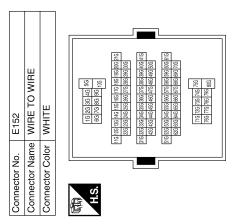
E

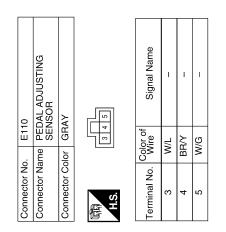


Signal Name	I	I	
Color of Wire	R/B	L/R	
Terminal No.	2	9	

Terminal No. -N ß 9 ~







ALJIA0110GB

Ρ

< ECU DIAGNOSIS >

Signal Name	ΤX	CAN-L	P_RANGE_SW	SLIDING MOTOR SENSOR	FRONT LIFTING MOTOR SENSOR	SLIDE(FR)	RECLINE(FR)	FRONT LIFT(UP)	REAR LIFT(UP)	PEDAL_FORWARD	GND (SENSOR)	GND	
Color of Wire	×	٩.	L/R	Y/G	ГG	P/B	G/B	Y/B	R/W	н	ΓV	В	
Terminal No.	17	19	21	24	25	26	27	28	29	30	31	32	

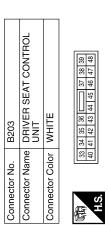
Signal Name	RX	CAN-H	ST_SW	RECLINING MOTOR SENSOR	REAR LIFTING MOTOR SENSOR	SLIDE(RR)	RECLINE(RR)	FRONT LIFT(DOWN)	REAR LIFT(DOWN)	PEDAL_BACK	POWER SUPPLY (SENSOR)
Color of Wire	_	_	0	нЛ	×	R/B	O/B	L/B	G/W	۲V	×
Terminal No.	-	ო	9	თ	10	11	12	13	14	15	16

Connector No.	B202	2							
Connector Name DRIVER SEAT CONTROL UNIT	DRIVE	≥⊢	Ë	SE	۲.	L L	õ	F	ROL
Connector Color	WHITE	E	m						
H.S.			17						
2 3 4 5 6 7	8	6	10	÷	12	13	10 11 12 13 14 15 16	15	16
7 18 19 20 21 22 23	24	25	26	26 27 28	28	29	29 30 31		32

Connector Name	Connector No. B204
Connector Color WHITE	VHITE

3 2 1 1	Signal Name	I	I	I	I	I
<u>。</u>	Color of Wire	LY	Y/G	×	O/B	W/N
H.S.	Terminal No.	F	2	e	4	9

Signal Name	BAT(PTC)	SLIDING MOTOR(FR)	RECLINING MOTOR (FR)	FRONT LIFTING MOTOR(DOWN)	REAR LIFTING MOTOR (UP)	REAR LIFTING MOTOR (DOWN)	BAT (FUSE)	SLIDING MOTOR(RR)	RECLINING MOTOR (RR)	FRONT LIFTING MOTOR (UP)	GND (POWER)
Color of Wire	L/B	3 M/N	Y/G	BB	B/W B	Y	Y/R	O/B	Y/R	GR	B/W
Terminal No.	33	35	36	37	38	39	40	42	44	45	48



ALJIA0112GB

< ECU DIAGNO 21

GNOS	IS >																				
B207 LIFTING MOTOR (REAR) GRAY	9 0 7 1 7 1	Signal Name	I	1	1	1	I	Signal Name	1	1	1	1	1	1	1	1	I	I	I	1	1
		Color of Wire	۲۸	×	8	~	B/W	Color of Wire	Y/B	W/N	GR	ВВ	σ	0	W/G	ζ	M/L	œ	ГG	Υ/R	BR/W
Connector No. Connector Name Connector Color	日 H.S.	Terminal No.	-	2	ę	4	Q	Terminal No.	6	10	11	12	13	14	15	16	17	18	19	20	21
RONT)		(D)										10 11			e						

nnector No.	B206	90	
nnector Name	Ľ.	l€	Innector Name LIFTING MOTOR (FRONT)
nnector Color WHITE	MΗ	Ë	
ſ			Г
	9		4
H.S.	e	3 2	-

2 - 4	Signal Name	-	-	I	I	Η
<u>0</u> m	0	ΓΛ	ГG	×	GR	BR
H.S.	Terminal No.	÷	2	e	4	9

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

	Signal Name	I	I	I	I
	Color of Wire	L/R	Г	Y/R	Y/G
际可 H.S.	Terminal No.	+	2	e	4

Т Т Т

		l
Connector No.	B208	
Connector Name	Connector Name POWER SEAT SWITCH LH	0
Connector Color WHITE	WHITE	<u> </u>
		Ľ
		2
H.S.	-11	

5 6 0 8	9 10 1 2 7	-
悟	SH	

Signal Name	I	I	I	I	I	I	I	I	I
Color of Wire	P/B	R/W	в	L/B	Y/B	R/B	G/W	O/B	G/B
Terminal No. Color of Wire	-	2	ю	ъ	9	7	8	6	10

ALJIA0166GB

Ρ

А

В

С

D

Ε

F

G

Н

I

ADP

Κ

L

Μ

Ν

0

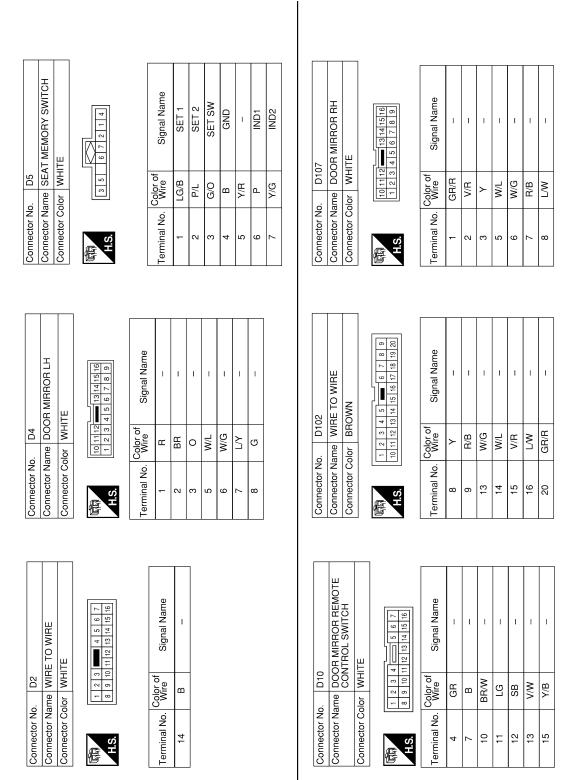
DRIVER SEAT CONTROL UNIT

Connector Name WIRE TO WIRE Connector Color WHITE 5 Connector No.

Signal Name	I	I	I	I	I	I
Color of Wire	R/G	G/O	Y/G	٩	LG/B	SB
Terminal No. Color of	-	2	e	4	5	8

	¢,		E			
ò	2		- Aa			
/	20		all		'	'
	19		Signal Nam			
	18		S			
٥	17					
ŋ	16		<u> </u>			
0 C 7 2 2 1	12 13 14 15 16 17 18 19 20 21 2		Color of Wire	G	0	(J
n	14		e Si Si	R/G	G/O	Y/G
2	13		Ŭ,			
-	12		No.			
		0	Terminal No.	F	2	e
	_					

Signal Name	I	I	I	I	I	I	
Color of Wire	R/G	G/O	Y/G	٩	LG/B	SB	
Terminal No.	-	2	e	4	£	8	



ALJIA0167GB

Fail Safe

INFOID:000000001673127

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

FAIL-SAFE MODE

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

DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS >

DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS >

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

NOTE:

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

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

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

CANCEL OF FAIL-SAFE MODE

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

DTC Index

INFOID:000000001673128

D

Е

F

Н

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

*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.

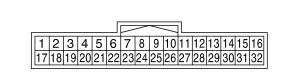
< ECU DIAGNOSIS >

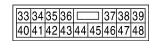
AUTOMATIC DRIVE POSITIONER CONTROL UNIT

Reference Value

INFOID:000000001673129

TERMINAL LAYOUT







JMJIA0199ZZ

PHYSICAL VALUES

Terr	minal No.		Description				
+	-	Wire color	Signal name	Input/ Out- put	Condition	And Homological(Approx.)r ionRH0Neutral or LH5hOperated (up)0Other than above5hOperated (left)0Other than above5RHPeak3.4Valley0.6LHPeak3.4Valley0.6ChForward0.5Backward4.5Push0Other than above5	Voltage (V) (Approx.)
			Changeover switch RH		Changeover	RH	0
2	Ground	LG	signal	Input	switch position		5
3	Cround	Y/B	Mirror switch up signal	Input Mirror switch			0
3	Ground	Ϋ́́Β	Mirror switch up signal	input	Mirror Switch		5
4	Ground	V/W	Mirror switch left signal	Input	Mirror switch		0
4	Ground	V/VV	Minor switch left signal	Input	WIITOF SWITCH		5
5	Ground	R/B	Door mirror sensor (RH)	Input	Door mirror RH	Peak	3.4
5	Ground	R/D	up/down signal	input	position	Valley	0.6
6	Ground	L/Y	Door mirror sensor (LH)	Input	Door mirror LH	Peak	3.4
0	Ground	L/ 1	up/down signal	input	position	Valley	0.6
8	Ground	BR/Y	Pedal sensor input sig-	Input	Pedal sensor	Forward	0.5
0	Cround	DIV I	nal	input		Backward	4.5
						Push	0
9	Ground	LG/B	Memory switch 1 signal	Input	Memory switch 1		5
10	Ground	L	UART LINE (TX)	Out- put	Ignition switch ON	I	6 4 2 0
40	Craw	P	Memory indicator 1 sig-	Out-	Memory indica-	Illuminate	0
12	Ground	Ρ	nal	put	tor 1	Other than above	Battery voltage

< ECU DIAGNOSIS >

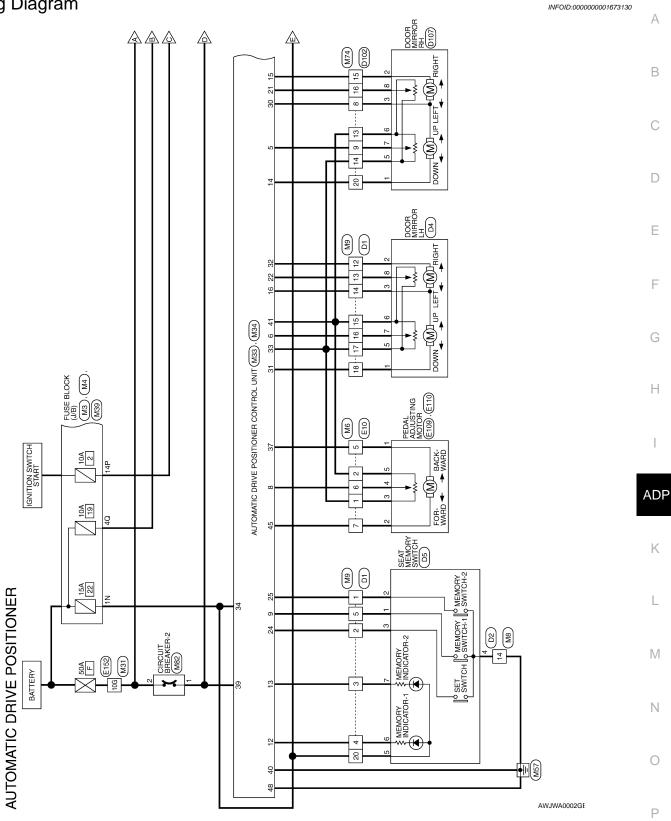
Terr	ninal No.		Description				
+	-	Wire color	Signal name	Input/ Out- put	Conditi	on	Voltage (V) (Approx.)
			Memory indicator 2 sig-	Out-	Memory indica-	Illuminate	0
13	Ground	Y/G	nal	put	tor 2	Other than above	Battery voltage
14	Ground	GR/R	Door mirror motor (RH)	Out-	Door mirror RH	Operate (up)	1.5 - Battery voltage
14	Ground	GIVIN	up output signal	put		Other than above	0
15	Cround		Door mirror motor (RH)	Out-	Door mirror DH	Operate (left)	1.5 - Battery voltage
15	Ground	V/R	left output signal	put	Door mirror RH	Other than above	0
			Door mirror motor (LH)			Operate (down)	1.5 - Battery voltage
		_	down output signal	Out-		Other than above	0
16	Ground	0	Door mirror motor (LH)	put	Door mirror (LH)	Operate (right)	1.5 - Battery voltage
			right output signal			Other than above	0
						LH	0
18	Ground	BR/W	Changeover switch LH signal	Input	Changeover switch position	Neutral or RH	5
40	0	05	Mirror switch down sig-			Operate (down)	0
19	Ground	SB	nal	Input	Mirror switch	Other than above	5
20	Ground		Mirror ouitob right oigeol		Mirror owitch	Operate (right)	0
20	Ground	GR	Mirror switch right signal	Input	Mirror switch	Other than above	5
21	Ground	L/W	Door mirror sensor (RH)	Input	Door mirror RH	Left edge	3.4
21	Ground	L/ V V	left/right signal	input	position	Right edge	0.6
22	Ground	G	Door mirror sensor (LH)	Input	Door mirror LH	Left edge	0.6
	Cround	•	left/right signal	mpar	position	Right edge	3.4
						Push	0
24	Ground	G/O	Set switch signal	Input	Set switch	Other than above	5
						Push	0
25	Ground	P/L	Memory switch 2 signal	Input	Memory switch 2	Other than above	5
26	Ground	W	UART LINE (RX)	Input	Ignition switch ON	l	(V) 6 4 2 0 2 ms PIIA4814E

< ECU DIAGNOSIS >

Terr	minal No.		Description				
+	-	Wire color	Signal name	Input/ Out- put	Conditio	on	Voltage (V) (Approx.)
			Door mirror motor (RH)			Operate (down)	1.5 - Battery voltage
30	Ground	Y	down output signal	Out-	Door mirror (RH)	Other than above	0
50	Ground	I	Door mirror motor (RH)	put		Operate (right)	1.5 - Battery voltage
			right output signal			Other than above	0
31	Ground	R	Door mirror motor (LH)	Out-	Door mirror (LH)	Operate (up)	1.5 - Battery voltage
51	Ologing	R	up output signal	put		Other than above	0
32	Ground	BR	Door mirror motor (LH)	Out-			1.5 - Battery voltage
52	Ground	DIX	left output signal	put		Other than above	0
33	Ground	W/L	Sensor power supply	Input	—		5
34	Ground	Y/R	Battery power supply	Input	—		Battery voltage
37	Ground	G	Pedal adjusting motor	Out-	Pedal adjusting	Operate (forward)	Battery voltage
57	Ground	9	forward output signal	put	Pedal adjusting (forward) motor Other that above		0
39	Ground	L/B	Battery power supply				Battery voltage
40	Ground	B/W	Ground	—	_		0
41	Ground	W/G	Sensor ground	—	_		0
45	Ground	R	Pedal adjusting motor backward output signal	Out- put	Pedal adjusting motor	Operate (back- ward)	Battery voltage
			backwaru ouiput sigilai	pui	motor	Other than above	0
48	Ground	В	Ground	—	—		0

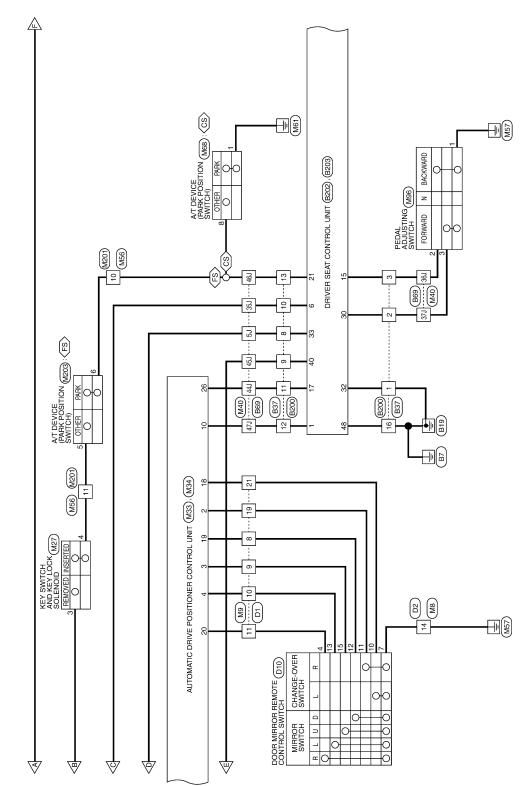
< ECU DIAGNOSIS >

Wiring Diagram



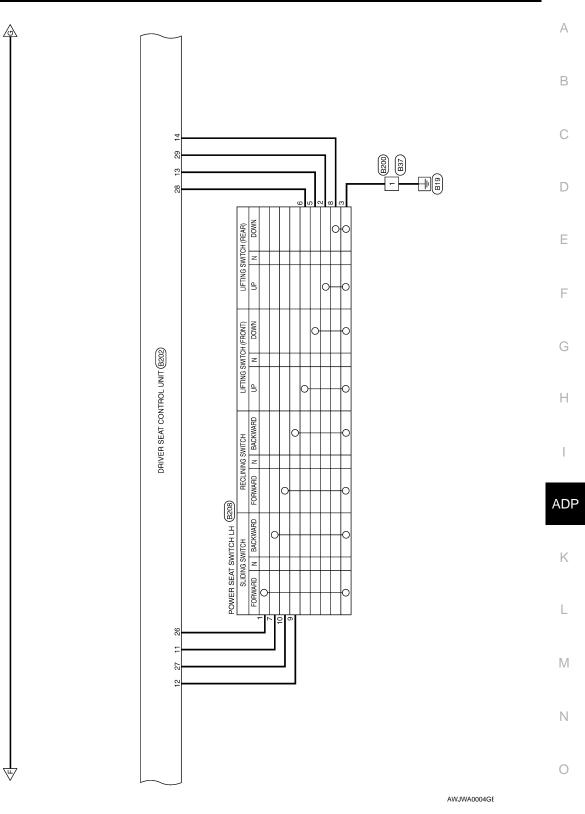
< ECU DIAGNOSIS >

(FS): FLOOR SHIFT (CS): COLUMN SHIFT



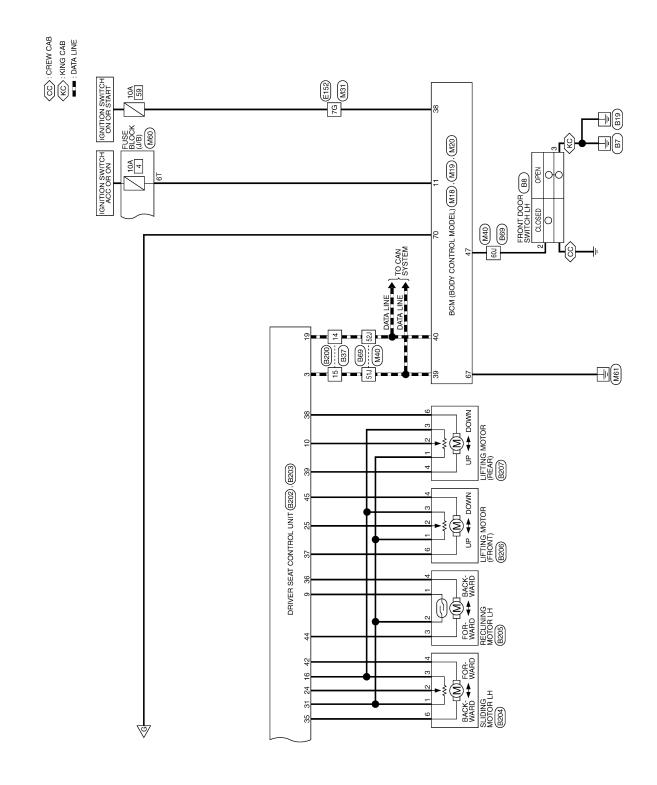
AWJWA0003GE

< ECU DIAGNOSIS >



Ρ

< ECU DIAGNOSIS >



AWJWA0005GE

AUTOMATIC DRIVE POSITIONER CONNECTORS

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

Connector No.	M4
Connector Name	Connector Name FUSE BLOCK (J/B)
Connector Color WHITE	WHITE
[
	7P 6P 5P 4P 3P 2P 1P

Connector No. M6 Connector Name WIRE TO WIRE

Connector Color WHITE

	1P	8Р	
	2P	9P	
	ЗР	10P	
	П	ЧL	
		2P 1	
Ш	4P	3P 1	
	5P	14P	
	6P	15P	
_	Ρ	16P	
	-]
د			

H.S.

7N 6N 5N 4N

®N 3N

H.S. 悟

5

H.S. E

Signal Name	
Color of Wire	0
rminal No.	14P

Signal Name

Color of Wire

Terminal No.

T T

W/L

W/G

2 ß 9

I. I.

BR/Y

വ

I

œ

Signal		
Color of Wire	0	
Terminal No.	14P	

Signal Name

Color of Wire

Terminal No. Ę

T

Y/R

	Terminal No.	Color of Wire	Signal N
	14P	0	
1			

									-					
Signal Name	I	1	I	I	I	I	I	I	I	1	I	I	I	I
Color of Wire	SB	Y/B	W/N	GR	B/B	σ	0	W/G	Σ	W/L	щ	ĿG	Y/R	BR/W
Terminal No.	8	6	10	11	12	13	14	15	16	17	18	19	20	21



	Signal Name	Ι	Ι	I	I
	Color of Wire	P/L	G/O	۲/G	٩
	Terminal No. Color of	F	2	e	4
-					

T

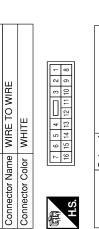
ш

44

T.

LG/B

ß



М8

Connector No.

ALJIA0106GB

Ρ

А

В

С

D

Ε

F

G

Н

ADP

Κ

L

Μ

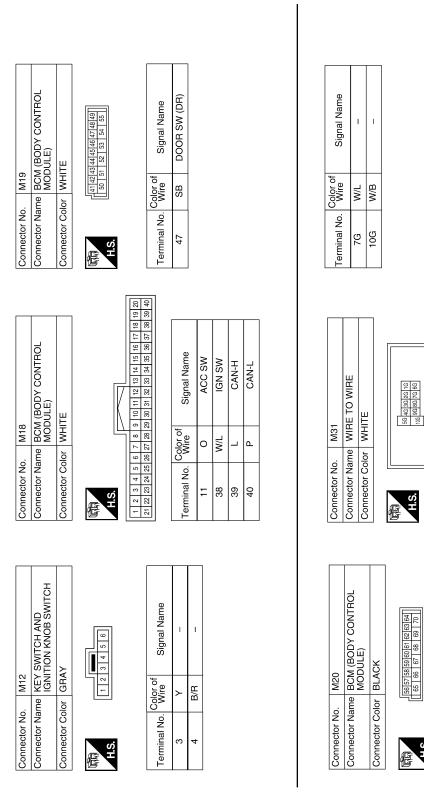
Ν

0

AUTOMATIC DRIVE POSITIONER CONTROL UNIT < ECU DIAGNOSIS >



< ECU DIAGNOSIS >



ALJIA0107GB

GND (POWER) Signal Name

ш

67

Color of Wire

Terminal No.

H.S.

Connector No. M34 Connector Name AUTOMATIC DRIVE		Connector Color WHITE		[다다] 33 34 35 36 77 38 39 40 41 42 44 45 46 47 48			-	Terminal No. Olor of Signal Name	33 W/L MEMORY(POT FEED)	Υ/R	σ	L/B	B/W	41 W/G MEMORY(POT RET)				Color of	Terminal No. Wire Signal Name	5J L/B –	35J O –	36J L/Y –	37J R –	44J W –	45J Y/R –	46J L/R –	47J L –	51J L –	52J P –	60J SB –	
Terminal No. Color of Signal Name	10 L TX	12 P MEMORY1_IND	13 Y/G MEMORY2_IND	14 GR/R RH_MTR_(UP-DN)	15 V/R RH_MTR(LT)	16 O LH_MTR_(COM)	18 BR/W MIR_SELECT_SW_LH	19 SB MIR_MANU_SW_DN	GR	L/W HORIZONTAL	G HORIZONI	G/O	P/L MEMC	8	~	31 R LH_MTR_(UP-DWN)	32 BR LH_MTR_(LT)	Connector No. M40	Connector Name WIRE TO WIRE	Connector Color WHITE			54 41 31 21 11 		21.1 201 193 194 173 164 155 144 133 172 171 1		500 480 480 480 480 480 480 480 480 480 F	61.1 (60.1 (50.1 (750 754 753 753 754 774	[10/1 r/r/ tor/ tor/
	POSITION CONTROL UNIT	Connector Color WHITE		旧	H.S.		3 4 3 6 7 6 3 10 11 12 13 14 13 19 20 21 22 23 24 25 26 27 28 29 30 31		Terminal No. Color of Signal Name	2 IG MIR SELECT SW BH	Y/B MI		B/B	2	- ZBZ	- 8/5/		Connector No. M39 Con	ne FUSE BLOCK (J/B)	Connector Color WHITE Con			H.S.			Terminal No. Wire Signal Name					

< ECU DIAGNOSIS >

ALJIA0108GB

Ρ

ADP-125

ADP

Κ

L

Μ

Ν

Ο

А

В

С

D

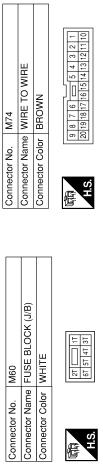
Е

F

G

Н

< ECU DIAGNOSIS >



Signal Name	I	I	I	I	I	I	I
Color of Wire	٢	R/B	W/G	M/L	V/R	L/W	GR/R
Terminal No. Color of	8	6	13	14	15	16	20
							<u></u>

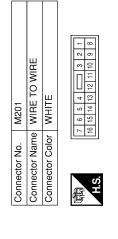
H.S.

E

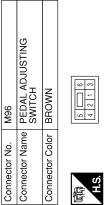
Connector Name WIRE TO WIRE	-	\geq	Ш	E.	0	N	ᇤ			
Connector Color WHITE	-	∣≳	<u></u> ⊑	ш						
	-	2	3			4	4 5 6	9	7	
31	8	6	10	11	12	9 10 11 12 13 14 15 16	14	15	16	
0 C										_

Connector No. M56

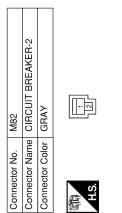
Signal Name	—	—
Color of Wire	L/R	B/R
Terminal No.	10	11



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



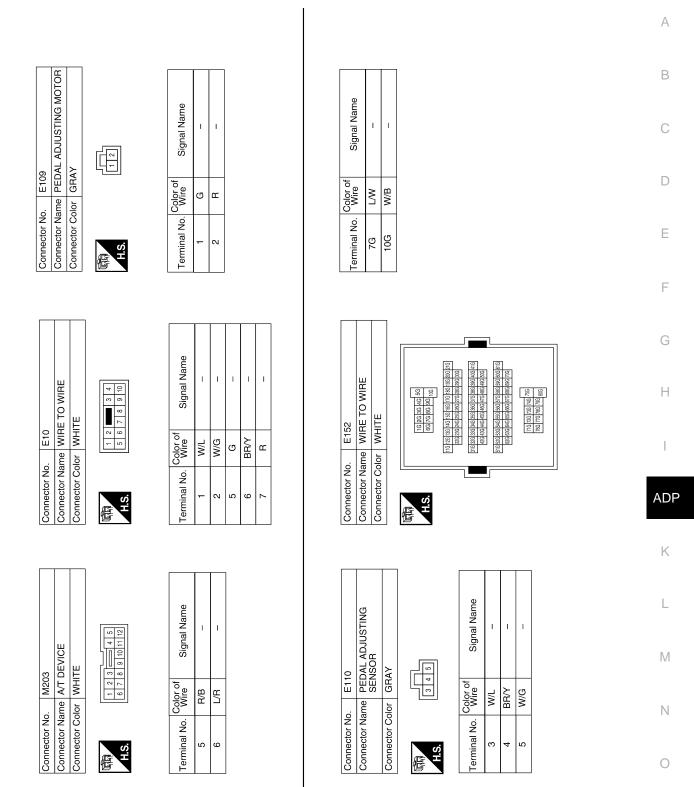
Signal Name	I	I	Ι
Color of Wire	W/R	SB	٨
Terminal No.	F	2	£



Signal Name	L	I	
Color of Wire	E/B	W/B	
Ferminal No.	٢	2	

ALJIA0109GB

< ECU DIAGNOSIS >



ALJIA0110GB

Ρ

AUTOMATIC DRIVE POSITIONER CONTROL UNIT < ECU DIAGNOSIS >

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

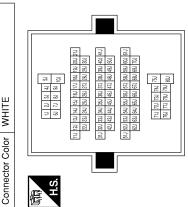
Signal Name	I	I	1	1	I	I	I	I	I
Color of Wire	L/B	Y/R	0	Μ	L	L/R	Р	Γ	B/W
Terminal No. Color of	8	6	10	11	12	13	14	15	16

4 3 2 1 1 1 1 1 9 8	Signal Name	I	I	ļ	
7 6 5 16 15 14	Color of Wire	L/B	B/W	ΓΛ	
国 H.S.	Terminal No.	۰-	2	3	

B37	Connector Name WIRE TO WIRE	WHITE	6 5 4 3 2
Connector No. B37	Connector Name	Connector Color WHITE	
	Connector Name FRONT DOOR SWITCH LH		
B8	FRONT D	WHITE	
Connector No. B8	Connector Name	Connector Color WHITE	惛

	Signal Name	1
	Color of Wire	SB
氓 H.S.	Terminal No.	0

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



ALJIA0111GB

1													
3 4 5 6 7 10 11 12 13 14 15 16	Signal Name	I	I	I	I	I	I	I	-	I	I	I	
1 2 8 9	Color of Wire	L/B	B/W	Γ	Y/R	Y/R	0	×	_	L/R	д.	_	B/W
品.S.H	Terminal No.	÷	2	e	ω	6	10	11	12	13	14	15	16

	Signal Name	I	I	I	I	I	I	-	-	-	-	1
	Color of Wire	L/B	0	Γ	щ	3	Y/R	L/R	_	Γ	Ч	SB
	Terminal No.	5J	35J	36J	37J	44J	45J	46J	47J	51J	52J	60J

_	

Connector Name SLIDING MOTOR LH Connector Color WHITE

B204

Connector No.

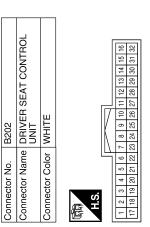
H.S.

E

< ECU DIAGNOSIS >

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

Signal Name	RX	CAN-H	ST_SW	RECLINING MOTOR SENSOR	REAR LIFTING MOTOR SENSOR	SLIDE(RR)	RECLINE(RR)	FRONT LIFT(DOWN)	REAR LIFT(DOWN)	PEDAL_BACK	POWER SUPPLY (SENSOR)
Color of Wire	L	_	0	L/R	Μ	R/B	O/B	L/B	G/W	ΓΛ	Ν
Terminal No.	-	e	9	თ	10	11	12	13	14	15	16



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

Signal Name

Color of Wire

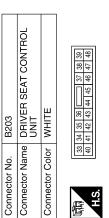
Terminal No.

T I. L L Т

Z S ≥

-N с 4 9

O/B N/V



ALJIA0112GB

Ο

А

В

С

D

Ε

F

G

Н

ADP

Κ

L

Μ

Ν

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS >

B207 LIFTING MOTOR (REAR)	X	9 - - - - - - - - - - - - -	Signal Name	-	I	-	I	I	Signal Name	1	1	I	I	I
e	olor GRAY		Color of Wire	۲V	×	M	≻	B/W	Color of Wire	Y/B	W/N	GR	BR	9
Connector No. Connector Name	Connector Color	际 H.S.	Terminal No.	-	2	3	4	9	Terminal No.	6	10	11	12	13
Connector No. B206 Connector Name LIFTING MOTOR (FRONT)	Connector Color WHITE	国 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日 日	Terminal No. Color of Signal Name	1 L/Y -	2 LG –	3 W -	4 GR –	6 BR	Connector No. D1	_			12 13 14 15 16 17 18 19	
Connector No. B205 Connector Name RECLINING MOTOR LH	Connector Color WHITE	国 HS.	Terminal No. Color of Signal Name	1 L/R –	2 LY –	3 Y/R –	4 Y/G –	-	Connector No. B208		Connector Color WHIIE		By Hyl 5 6 8 4 9 10 1 2 3	

												-	_
Signal Name	1	I	I	I	I	I	I	I	I	I	I	I	I
Color of Wire	Y/B	W/N	GR	ВВ	σ	0	W/G	۲	M/L	œ	ГG	Y/R	BR/W
Terminal No.	6	10	.	12	13	14	15	16	17	18	19	20	21

Signal Name	I	I	I	I	-	I
Color of Wire	R/G	G/O	Y/G	٩.	LG/B	SB
Terminal No.	-	2	3	4	5	8

e									
Signal Name	I	I	I	I	I	I	I	I	I
Color of Wire	P/B	R/W	в	L/B	Y/B	R/B	G/W	O/B	G/B
Terminal No. Color of	F	2	С	5	9	2	8	6	10

ALJIA0166GB

AUTOMATIC DRIVE POSITIONER CONTROL UNIT < ECU DIAGNOSIS >

		· · · · · · · · · · · · · · · ·			٦	· T		1			
Connector No. D5 Connector Name SEAT MEMORY SWITCH Connector Color WHITE	67214	Signal Name SET 1 SET 2 SET 2 SET 2 GND -	IND2	DOOR MIRROR RH WHITE	101112 - 13141516 1 2 3 4 5 6 7 8 9	Signal Name	1 1	I	I	1 1	
o. D5 ame SEAT olor WHITE	35	Color of Wire LG/B P/L G/O B B P/L	Y/G	ame DOOR Not NHITE	10 1 1 2 3 4	Color of Wire	GR/R V/R	>	M/L	R/B	L/M
Connector No. D5 Connector Name SEAT M Connector Color WHITE	EE H.S.	Terminal No. 1 5 5	7 Connector No	Connector Name Connector Color	H.S.	Terminal No.	- ~	က	່ວ	0	σ
D4 DOOR MIRROR LH WHITE	101112 - 13141516 1 2 3 4 5 6 7 8 9	Signal Name		WIRE TO WIRE BROWN		Signal Name	1 1	1	I	I 1	1
	101112 1234	Color of Wire BR BR W/L W/L V/G	D102		1 2 3 4 5 10 11 12 13 14	S 0 0	≻ 8/8	Ø/d	M/L	ч/л	GR/R
Connector No. Connector Name Connector Color	H.S.H	Terminal No. 1 2 3 5 6 7	Connector No	Connector Name Connector Color	H.S.	Terminal No.	ထ တ	13	14	16	20
WIRE	2 3 Form 4 5 6 7 9 10 11 12 13 14 15 16	Signal Name -		DOOR MIRROR REMOTE CONTROL SWITCH	rE	Signal Name		I	1	1 1	
Ц					 		_	+	$\left \right $	+	<u>+ </u>
Connector No. D2 Connector Name WIRE TO WIRE Connector Color WHITE	1 2 3 8 9 10 1	Terminal No. Color of Mire		Connector Name DC	Connector Color WHITE	Terminal No. Color of Wire	B B	BR/W	5 E		Y/B

ALJIA0167GB

Ρ

< ECU DIAGNOSIS >

BCM (BODY CONTROL MODULE)

Reference Value

INFOID:000000001673131

VALUES ON THE DIAGNOSIS TOOL

CONSULT-III MONITOR ITEM

Monitor Item	Condition	١	/alue/Status
DOOR SW-DR	Front door LH closed	Off	
DOOR SW-DR	Front door LH opened	On	
TERMINAL LAYOU For terminal layout inf	T formation, refer to <u>BCS-37, "Terminal Layout"</u> .		
PHYSICAL VALUES	S ormation, refer to <u>BCS-37, "Physical Values"</u> .		
Wiring Diagram			INFOID:000000001673132
For wiring information	n, refer to <u>BCS-43, "Wiring Diagram"</u> .		
DTC Inspection	Priority Chart		INFOID:000000001673133
For DTC priority inform	mation, refer to BCS-46, "DTC Inspection Prior	rity Chart".	
DTC Index			INFOID:000000001673134
For DTC information,	refer to BCS-47, "DTC Index".		

А

В

С

D

Е

F

G

Н

ADP

Κ

L

Μ

Ν

Ο

Ρ

INFOID:000000001673135

SYMPTOM DIAGNOSIS ADP SYSTEM SYMPTOMS

Symptom Table

NOTE:

Always perform the "Basic Inspection" before performing diagnosis in the following table. Refer to <u>ADP-4</u>, <u>"Work Flow"</u>.

SYMPTOM 1

Sympton	1	Diagnosis procedure	Reference page
	Sliding operation	Check sliding switch.	<u>ADP-43</u>
	Reclining operation	Check reclining switch.	<u>ADP-45</u>
	Lifting operation (front)	Check lifting switch (front).	<u>ADP-47</u>
	Lifting operation (rear)	Check lifting switch (rear).	ADP-49
Manual functions (for specific part) do	do Pedal operation	1. Check pedal adjusting switch.	ADP-51
not operate		2. Check pedal adjusting sensor.	<u>ADP-76</u>
	De ca minera ca castica	1. Changeover switch.	<u>ADP-56</u>
	Door mirror operation	2. Mirror switch	<u>ADP-58</u>
	All parts of seat	Check power seat switch ground cir- cuit.	<u>ADP-61</u>

SYMPTOM 2

Symptom	1	Diagnosis procedure	Reference page
	Sliding operation	Check sliding sensor.	<u>ADP-68</u>
	Reclining operation	Check reclining sensor.	<u>ADP-70</u>
	Lifting operation (front)	Check lifting sensor (front).	<u>ADP-72</u>
	Lifting operation (rear)	Check lifting sensor (rear).	<u>ADP-74</u>
Memory functions (for specific part) do not operate	Pedal operation	Check pedal adjusting sensor.	<u>ADP-76</u>
not operate	Door mirror operation	Check door mirror sensor.	Driver side: <u>ADP-78</u> Passenger side: <u>ADP-80</u>

SYMPTOM 3

Sympton	1	Diagnosis procedure	Reference page
	Sliding operation	Check sliding motor.	<u>ADP-82</u>
	Reclining operation	Check reclining motor.	<u>ADP-84</u>
Memory functions and manual func-	Lifting operation (front)	Check lifting motor (front).	<u>ADP-86</u>
tions (for specific part) do not operate	Lifting operation (rear)	Check lifting motor (rear).	<u>ADP-88</u>
	Pedal operation	Check pedal adjusting motor.	<u>ADP-90</u>
	Door mirror operation	Check door mirror motor.	ADP-92

ADP SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

Symptom	Diagnosis procedure	Reference page
	1. Check system setting.	<u>ADP-19</u>
Entry/Exit assist function does not operate.	2. Perform initialization.	<u>ADP-19</u>
	3. Check front door switch (driver side).	<u>ADP-19</u>

SYMPTOM 5

Symptom	Diagnosis procedure	Reference page
Memory indicators 1 and/or 2 do not illuminate.	1. Check seat memory switch.	<u>ADP-54</u>
	2. Check seat memory indicator.	<u>ADP-95</u>

SYMPTOM 6

Symptom	Diagnosis procedure	Reference page
Memory operation does not operate.	Check A/T device (park position switch).	<u>ADP-62</u>

< SYMPTOM DIAGNOSIS >

NORMAL OPERATING CONDITION

Description

The following symptoms are normal operations, and they do not indicate a malfunction.

Symptom	Cause	Action to take	Reference page
	No initialization has been performed.	Perform initialization.	<u>ADP-19</u>
Entry/Exit assist function does not operate.	Entry/exit assist function is disabled. NOTE: The entry/exit assist function and seat synchronization function are disabled be- fore delivery (initial setting).	Change the settings.	<u>ADP-19</u>
Entry assist function does not op- erate.	Manual operation with power seat switch was performed after exit assist function excution.	Perform the memory function.	<u>ADP-19</u>
			Memory function: <u>ADP-15</u>
Memory function or entry/exit as- sist function function does not operate.	- The operating conditions are not fulfilled.	Fulfill the operation conditions.	Exit assist function: <u>ADP-19</u>
			Entry assist function: <u>ADP-21</u>

Н

ADP

Κ

L

Μ

Ν

Ο

Ρ

А

В

INFOID:000000001673136

< PRECAUTION >

PRECAUTION PRECAUTIONS

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

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

WARNING:

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

Precaution for Work

INFOID:000000001337864

- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and keep them.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After re-installation is completed, be sure to check that each part works normally.
- Follow the steps below to clean components.
- Water soluble foul: Dip a soft cloth into lukewarm water, and wring the water out of the cloth to wipe the fouled area.

Then rub with a soft and dry cloth.

- Oily foul: Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%), and wipe the fouled area.

Then dip a cloth into fresh water, and wring the water out of the cloth to wipe the detergent off. Then rub with a soft and dry cloth.

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

PREPARATION

< PREPARATION >

PREPARATION PREPARATION

Special Service Tool

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

Tool number (Kent-Moore No.) Tool name		Description	С
 (J-39570) Chassis ear	A A A A A A A	Locating the noise	D
			E
	۳, SIIA0993E		F
		Repairing the cause of noise	G
(J-43980) NISSAN Squeak and Rattle Kit			Н
	SIIA0994E		I
			AD
Commercial Service Too	bl	INFOID:00	00000001337886 K
(Kent-Moore No.) Tool name		Description	L
(J-39565) Engine ear		Locating the noise	
5			M
	SIIA0995E		Ν
			0

Ρ

А

В

INFOID:000000001337885

< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION AUTOMATIC DRIVE POSITIONER

Removal and Installation

INFOID:000000001337935

Refer to ACC-3, "Removal and Installation" and BR-19, "Removal and Installation".