SECTION ADP
AUTOMATIC DRIVE POSITIONER

CONTENTS

PRECAUTION 4

PRECAUTIONS 4
Precautions for Removing Battery Terminal 4

SYSTEM DESCRIPTION 5

COMPONENT PARTS 5
Component Parts Location 5
Seat Control Unit 7
Front Seat Adjustment Switch Group 7

SYSTEM 8

AUTOMATIC DRIVE POSITIONER SYSTEM 8
AUTOMATIC DRIVE POSITIONER SYSTEM : System Description 8
AUTOMATIC DRIVE POSITIONER SYSTEM : Circuit Diagram 10

MANUAL FUNCTION 11
MANUAL FUNCTION : System Description 12

MEMORY FUNCTION 13
MEMORY FUNCTION : System Description 14

DIAGNOSIS SYSTEM (FRONT SEAT CONTROL UNIT) 16

DRIVER SIDE 16
DRIVER SIDE : CONSULT Function 16

PASSENGER SIDE 17
PASSENGER SIDE : CONSULT Function 17

ECU DIAGNOSIS INFORMATION 20

DRIVER SEAT CONTROL UNIT 20
Reference Value 20
Fail-Safe 24
DTC Index 24

PASSENGER SEAT CONTROL UNIT 26
Reference Value 26
Fail-Safe 30
DTC Index 30

FRONT DOOR CONTROL UNIT 32
List of ECU Reference 32

BCM (BODY CONTROL MODULE) 33
List of ECU Reference 33

WIRING DIAGRAM 34

AUTOMATIC DRIVE POSITIONER SYSTEM ...34
Wiring Diagram 34

BASIC INSPECTION 43

ADDITIONAL SERVICE WHEN REPLACING SEAT CONTROL UNIT 43

DRIVER SIDE 43
DRIVER SIDE : Description 43
DRIVER SIDE : Work Procedure 43

PASSENGER SIDE 43
PASSENGER SIDE : Description 43
PASSENGER SIDE : Work Procedure 43

CONFIGURATION (FRONT SEAT CONTROL UNIT) 44

DRIVER SIDE 44
DRIVER SIDE : Description 44
DRIVER SIDE : Work Procedure 44

PASSENGER SIDE 44
PASSENGER SIDE : Description 44
PASSENGER SIDE : Work Procedure 44

SYSTEM INITIALIZATION 46
Description 46
Work Procedure 46

MEMORY STORING 47
Description 47

Work Procedure 47

DTC/CIRCUIT DIAGNOSIS 48

B1D6C SLIDING SENSOR 48

DRIVER SIDE 48
DRIVER SIDE : DTC Description 48
DRIVER SIDE : Diagnosis Procedure 48

PASSENGER SIDE 49
PASSENGER SIDE : DTC Description 49
PASSENGER SIDE : Diagnosis Procedure 49

B1D70 LIFTING SENSOR (REAR) 50

DRIVER SIDE 50
DRIVER SIDE : DTC Description 50
DRIVER SIDE : Diagnosis Procedure 50

PASSENGER SIDE 51
PASSENGER SIDE : DTC Description 51
PASSENGER SIDE : Diagnosis Procedure 51

B1D74 LIFTING SENSOR (FRONT) 52

DRIVER SIDE 52
DRIVER SIDE : DTC Description 52
DRIVER SIDE : Diagnosis Procedure 52

PASSENGER SIDE 53
PASSENGER SIDE : DTC Description 53
PASSENGER SIDE : Diagnosis Procedure 53

B1D78 RECLINING SENSOR 54

DRIVER SIDE 54
DRIVER SIDE : DTC Description 54
DRIVER SIDE : Diagnosis Procedure 54

PASSENGER SIDE 54
PASSENGER SIDE : DTC Description 55
PASSENGER SIDE : Diagnosis Procedure 55

B1D9B SLIDING MOTOR 56

DRIVER SIDE 56
DRIVER SIDE : DTC Description 56
DRIVER SIDE : Diagnosis Procedure 56

PASSENGER SIDE 56
PASSENGER SIDE : DTC Description 56
PASSENGER SIDE : Diagnosis Procedure 57

B1DAA LIFTING MOTOR (FRONT) 58

DRIVER SIDE 58
DRIVER SIDE : DTC Description 58
DRIVER SIDE : Diagnosis Procedure 58

PASSENGER SIDE 58
PASSENGER SIDE : DTC Description 58
PASSENGER SIDE : Diagnosis Procedure 59

B1DAC RECLINING MOTOR 60

DRIVER SIDE 60
DRIVER SIDE : DTC Description 60
DRIVER SIDE : Diagnosis Procedure 60

PASSENGER SIDE 60
PASSENGER SIDE : DTC Description 60
PASSENGER SIDE : Diagnosis Procedure 61

B1E04 LIFTING MOTOR (REAR) 62

DRIVER SIDE 62
DRIVER SIDE : DTC Description 62
DRIVER SIDE : Diagnosis Procedure 62

PASSENGER SIDE 62
PASSENGER SIDE : DTC Description 62
PASSENGER SIDE : Diagnosis Procedure 63

B210D SEAT CONTROL UNIT 64

DRIVER SIDE 64
DRIVER SIDE : DTC Description 64
DRIVER SIDE : Diagnosis Procedure 64

PASSENGER SIDE 65
PASSENGER SIDE : DTC Description 65
PASSENGER SIDE : Diagnosis Procedure 66

B210E SEAT CONTROL UNIT 68

DRIVER SIDE 68
DRIVER SIDE : DTC Description 68
DRIVER SIDE : Diagnosis Procedure 68

PASSENGER SIDE 69
PASSENGER SIDE : DTC Description 69
PASSENGER SIDE : Diagnosis Procedure 70

B221C SEAT CONTROL UNIT 72

DRIVER SIDE 72
DRIVER SIDE : DTC Description 72
DRIVER SIDE : Diagnosis Procedure 72

PASSENGER SIDE 72
PASSENGER SIDE : DTC Description 72
PASSENGER SIDE : Diagnosis Procedure 73

B25AA SLIDING MOTOR 74

DRIVER SIDE 74
DRIVER SIDE : DTC Description 74
DRIVER SIDE : Diagnosis Procedure 74

PASSENGER SIDE 75
PASSENGER SIDE : DTC Description 75
PASSENGER SIDE : Diagnosis Procedure 76

B25AB LIFTING MOTOR (FRONT) 77

DRIVER SIDE 77
DRIVER SIDE : DTC Description 77
DRIVER SIDE : Diagnosis Procedure 77

PASSENGER SIDE 78

PASSENGER SIDE : DTC Description 78
PASSENGER SIDE : Diagnosis Procedure 79

B25AD RECLINING MOTOR 81

DRIVER SIDE 81
DRIVER SIDE : DTC Description 81
DRIVER SIDE : Diagnosis Procedure 81

PASSENGER SIDE 82
PASSENGER SIDE : DTC Description 82
PASSENGER SIDE : Diagnosis Procedure 83

B25AE LIFTING MOTOR (REAR) 84

DRIVER SIDE 84
DRIVER SIDE : DTC Description 84
DRIVER SIDE : Diagnosis Procedure 84

PASSENGER SIDE 85
PASSENGER SIDE : DTC Description 85
PASSENGER SIDE : Diagnosis Procedure 86

B1D5E FRONT SEAT SWITCH 88

LH 88
LH : DTC Description 88
LH : Diagnosis Procedure 88

RH 88
RH : DTC Description 88
RH : Diagnosis Procedure 89

U1137 LIN COMMUNICATION 90

LH 90
LH : DTC Description 90
LH : Diagnosis Procedure 90

RH 91
RH : DTC Description 91
RH : Diagnosis Procedure 92

B2286 SEAT CONTROL UNIT 94
DTC Description 94
Diagnosis Procedure 94

B2287 SEAT CONTROL UNIT 95
DTC Description 95
Diagnosis Procedure 95

B1EAE SEAT CONTROL UNIT 96

DRIVER SIDE 96
DRIVER SIDE : DTC Description 96
DRIVER SIDE : Diagnosis Procedure 96

PASSENGER SIDE 96
PASSENGER SIDE : DTC Description 96
PASSENGER SIDE : Diagnosis Procedure 97

U0155 CAN COMMUNICATION 98

DRIVER SIDE 98
DRIVER SIDE : DTC Description 98
DRIVER SIDE : Diagnosis Procedure 98

PASSENGER SIDE 99
PASSENGER SIDE : DTC Description 99
PASSENGER SIDE : Diagnosis Procedure 99

U0168 CAN COMMUNICATION 101

DRIVER SIDE 101
DRIVER SIDE : DTC Description 101
DRIVER SIDE : Diagnosis Procedure 101

PASSENGER SIDE 102
PASSENGER SIDE : DTC Description 102
PASSENGER SIDE : Diagnosis Procedure 102

U112F CAN COMMUNICATION 104

DRIVER SIDE 104
DRIVER SIDE : DTC Description 104
DRIVER SIDE : Diagnosis Procedure 104

PASSENGER SIDE 105
PASSENGER SIDE : DTC Description 105
PASSENGER SIDE : Diagnosis Procedure 105

U141D CAN COMMUNICATION 107

DRIVER SIDE 107
DRIVER SIDE : DTC Description 107
DRIVER SIDE : Diagnosis Procedure 107

PASSENGER SIDE 108
PASSENGER SIDE : DTC Description 108
PASSENGER SIDE : Diagnosis Procedure 108

U0210 SEAT CONTROL UNIT 110

LH 110
LH : DTC Description 110
LH : Diagnosis Procedure 110

RH 111
RH : DTC Description 111
RH : Diagnosis Procedure 111

REMOVAL AND INSTALLATION 113

SEAT CONTROL UNIT 113
Removal and Installation 113

FRONT SEAT ADJUSTMENT SWITCH GROUP 114
Removal and Installation 114

PRECAUTION

PRECAUTIONS

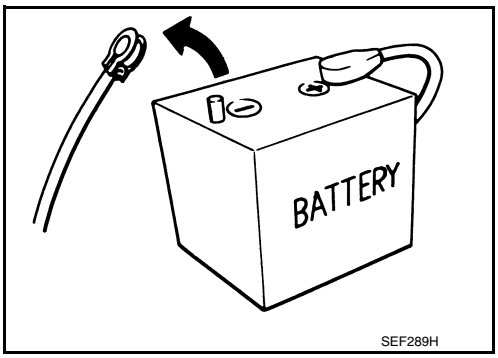
Precautions for Removing Battery Terminal

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When disconnecting the battery terminal, pay attention to the following.

- Always use a 12V battery as power source.
- Never disconnect battery terminal while engine is running.
- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.
- For vehicles with the engine listed below, remove the battery terminal after a lapse of the specified time:

BR08DE	: 4 minutes	YD25DDTi	: 2 minutes
D4D engine	: 20 minutes	YS23DDT	: 4 minutes
HRA2DDT	: 12 minutes	YS23DDTT	: 4 minutes
K9K engine	: 4 minutes	ZD30DDTi	: 60 seconds
M9R engine	: 4 minutes	ZD30DDTT	: 60 seconds
R9M engine	: 4 minutes		
V9X engine	: 4 minutes		



NOTE:
ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

- After high-load driving, if the vehicle is equipped with the V9X engine, turn the ignition switch OFF and wait for at least 15 minutes to remove the battery terminal.

NOTE:
- Turbocharger cooling pump may operate in a few minutes after the ignition switch is turned OFF.
- Example of high-load driving
  - Driving for 30 minutes or more at 140 km/h (86 MPH) or more.
  - Driving for 30 minutes or more on a steep slope.

- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.

NOTE:
If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.

- After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.

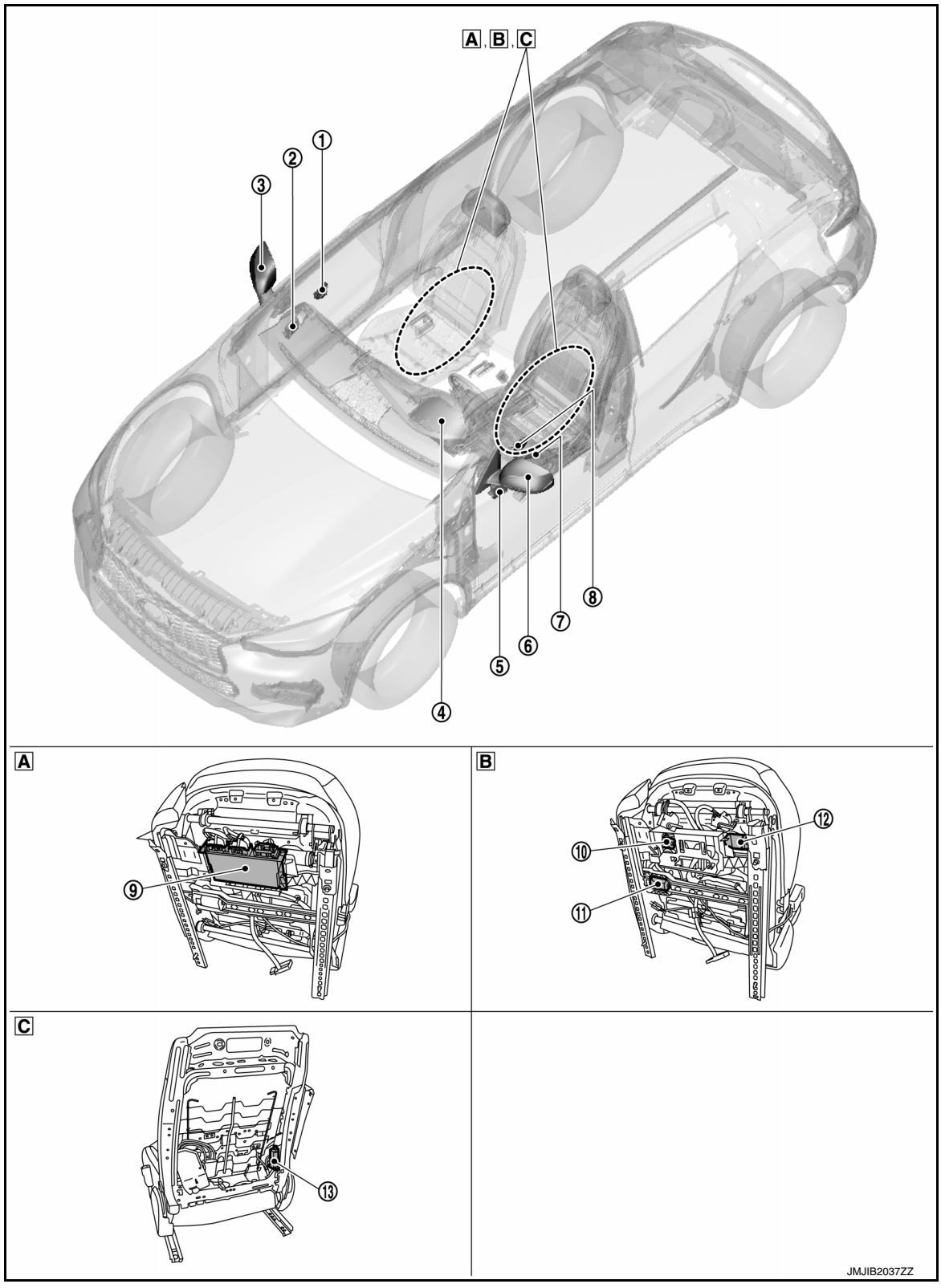
NOTE:
The removal of 12V battery may cause a DTC detection error.

SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location

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A View with back side of seat cushion

B View with back side of seat cushion and seat control unit removed

C View with seatback pad removed

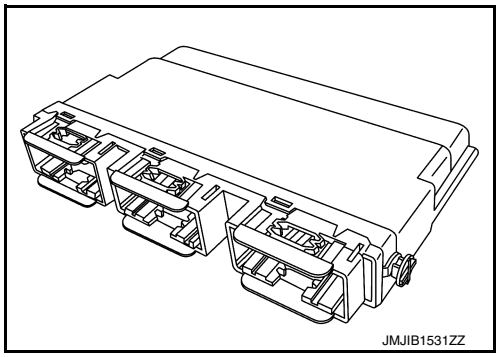
No.	Component		Function
①	Right front seat adjustment switch group		Refer to ADP-7, "Front Seat Adjustment Switch Group".
②	Right front door control unit		Transmits each seat switch signal to seat control unit via CAN communication. Refer to DLK-10, "DOOR LOCK SYSTEM : Component Parts Location" for detailed installation location.
③	Door mirror (passenger side)	Door mirror motor	It makes mirror face operate from side to side and up and down with the electric power that front door control unit supplies.
		Mirror sensor	• Mirror sensor is installed to door mirror. • The resistance of 2 sensors (horizontal and vertical) is changed when door mirror is operated. • Front door control unit calculates door mirror position according to the change of the voltage of 2 sensor input terminals.
④	Combination meter		When combination meter receives buzzer signal from seat control unit via CAN communication, it sounds the buzzer integrated in the combination meter.
⑤	Left front door control unit		Transmits each seat switch signal to seat control unit via CAN communication. Refer to DLK-10, "DOOR LOCK SYSTEM : Component Parts Location" for detailed installation location.
⑥	Door mirror (driver side)	Door mirror motor	It makes mirror face operate from side to side and up and down with the electric power that front door control unit supplies.
		Mirror sensor	• Mirror sensor is installed to door mirror. • The resistance of 2 sensors (horizontal and vertical) is changed when door mirror is operated. • Front door control unit calculates door mirror position according to the change of the voltage of 2 sensor input terminals.
⑦	Power window main switch (door mirror remote control switch)	Mirror switch	• Mirror switch is integrated in power window main switch. • It operates angle of door mirror face. • It transmits mirror face adjust operation to front door control unit.
		Changeover switch	• Changeover switch is integrated in power window main switch. • Changeover switch has three positions (L, N and R). • It changes operating door mirror motor by transmitting control signal to front door control unit.
⑧	Left front seat adjustment switch group		Refer to ADP-7, "Front Seat Adjustment Switch Group".
⑨	Seat control unit		Refer to ADP-7, "Seat Control Unit".
⑩	Lifting motor (rear)	Lifting motor (rear)	• Lifting motor (rear) is installed to seat cushion frame. • Lifting motor (rear) is activated with seat control unit. • Lifting motor (rear) is moved upward/downward by changing the rotation direction of lifting motor (rear).
		Lifting sensor (rear)	• Lifting sensor (rear) is installed to lifting motor (rear). • The pulse signal is input to seat control unit when lifting (rear) is operated. • Seat control unit counts the pulse and calculates the lifting (rear) amount of the seat.
⑪	Sliding motor	Sliding motor	• Sliding motor is installed to the seat cushion frame. • Sliding motor is activated with seat control unit. • Slides the seat forward/backward by changing the rotation direction of sliding motor.
		Sliding sensor	• Sliding sensor is integrated in sliding motor. • The pulse signal is input to seat control unit when sliding is performed. • Seat control unit counts the pulse and calculates the sliding amount of the seat.

No.	Component		Function
⑫	Lifting motor (front)	Lifting motor (front)	• Lifting motor (front) is installed to seat cushion frame. • Lifting motor is activated with seat control unit. • Lifting motor (front) is moved upward/downward by changing the rotation direction of lifting motor (front).
		Lifting sensor (front)	• Lifting sensor (front) is installed in lifting motor (front). • When lifting motor (front) operates, pulse signal is transmitted to seat control unit from lifting sensor. • Seat control unit counts the pulse and calculates the lift position (front) of the seat.
⑬	Reclining motor	Reclining motor	• Reclining motor is installed to seatback frame. • Reclining motor is activated with seat control unit. • Seatback is reclined forward/backward by changing the rotation direction of reclining motor.
		Reclining sensor	• Reclining sensor is integrated in reclining motor. • The pulse signal is input to seat control unit when the reclining is operated. • Seat control unit counts the pulse and calculates the reclining amount of the seat.

Seat Control Unit

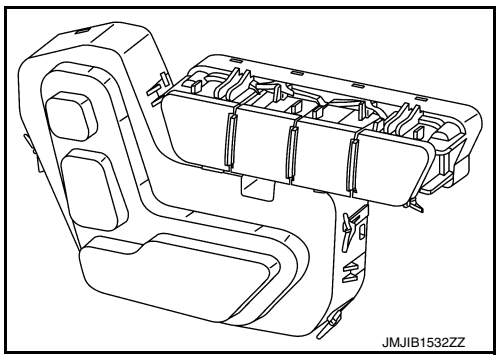
INFOID:0000000013612817

- It is connected to the CAN communication system.
- The address of each part is recorded.
- Operates each motor of seat to the registered position.
- Requests the operation of door mirror to front door control unit.
- Perform the control of front seat adjustment switch group.
- Operates the specific seat motor with the signal from front seat adjustment switch group.


JMJIB1531ZZ

Front Seat Adjustment Switch Group

INFOID:0000000013612818


JMJIB1532ZZ

SET SWITCH

It is used for registration and setting change of driving position.

SEAT MEMORY SWITCH

- The maximum 3 seat positions can be registered by memory switch 1, 2 or 3.
- Seat position is set to the registered seat position when memory switch is pressed.

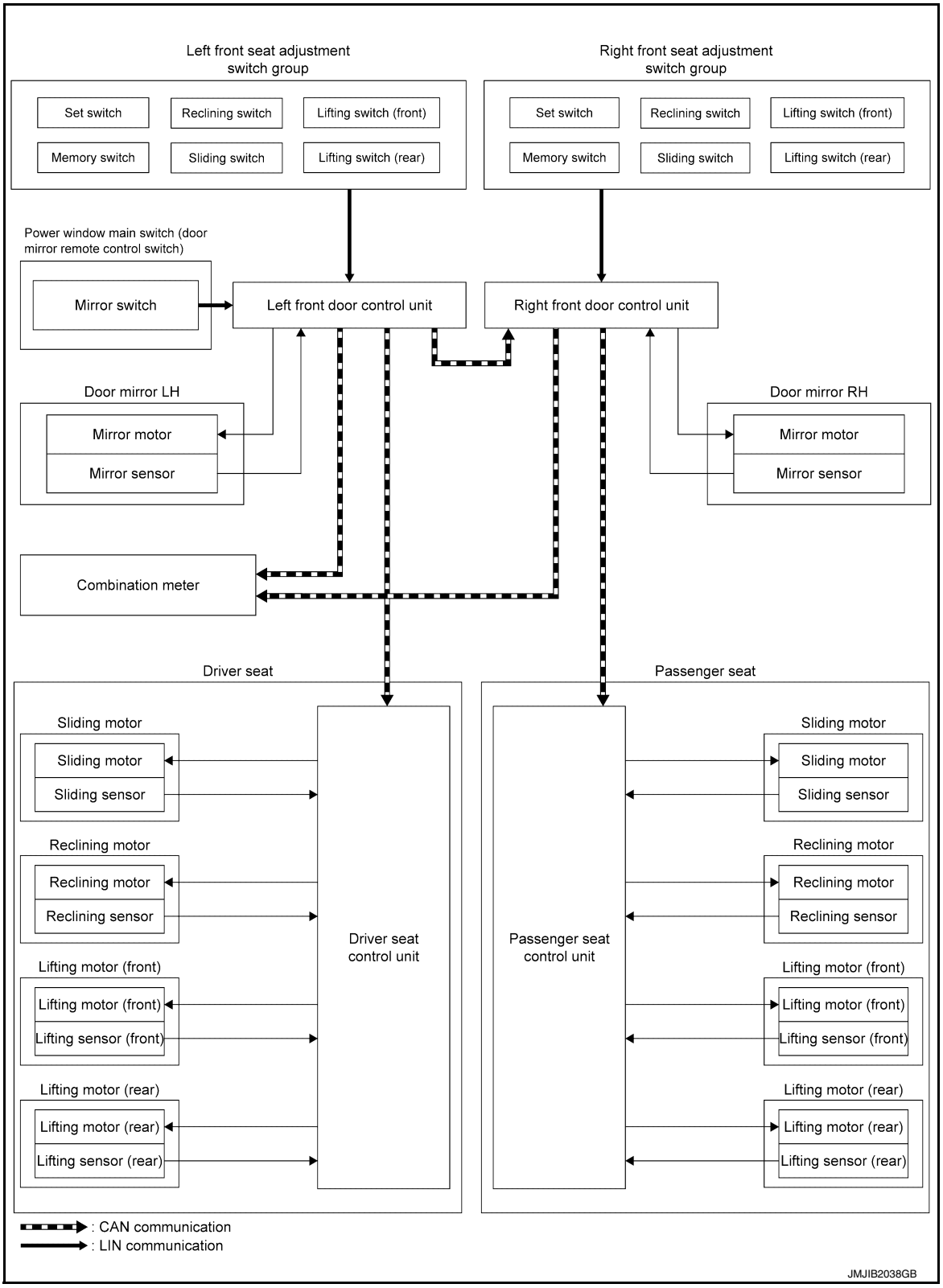
SYSTEM

AUTOMATIC DRIVE POSITIONER SYSTEM

AUTOMATIC DRIVE POSITIONER SYSTEM : System Description

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SYSTEM DIAGRAM



DESCRIPTION

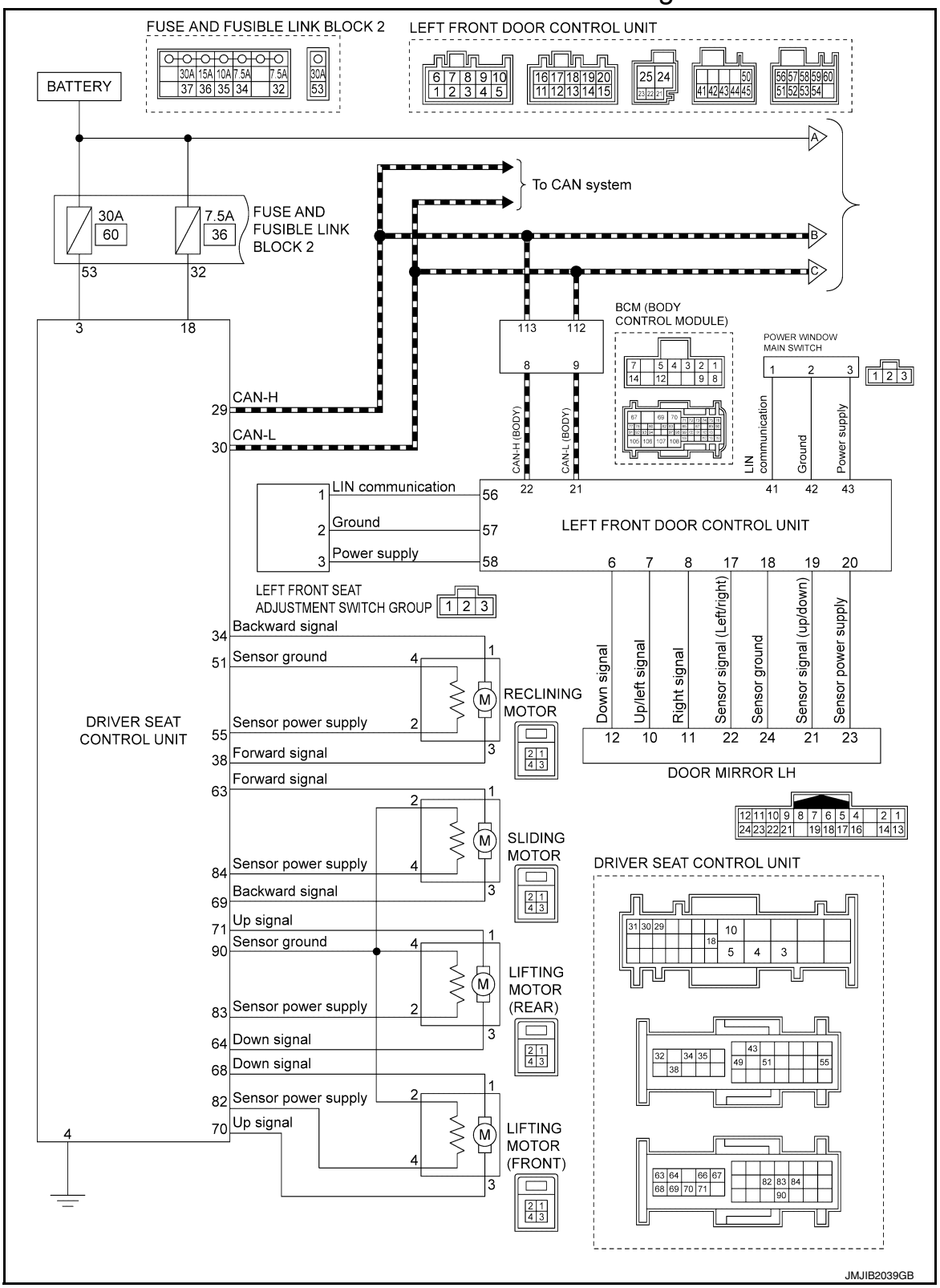
Automatic drive positioner system is a system that adjusts the driver seat, steering column, and door mirrors. By using the following functions, an optimum driving position can be achieved. If another driver is seated in the driver seat, the driving position can be easily changed to the preset driving position.

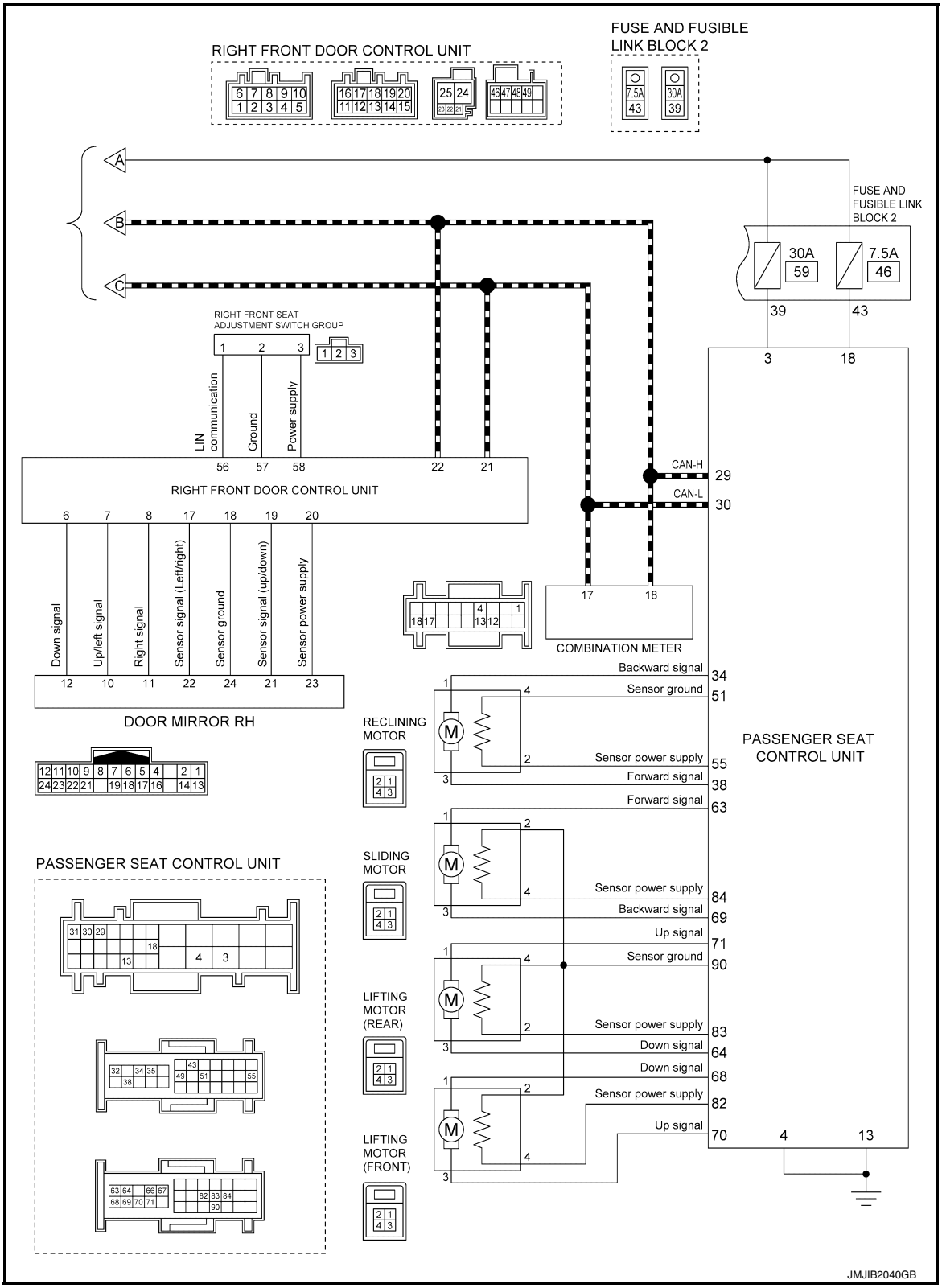
Function	Description
Manual function	The driving position (seat, steering column and door mirror position) can be adjusted by using the power seat switch, tilt & telescopic switch or door mirror remote control switch. For details on Manual function, refer to ADP-12, "MANUAL FUNCTION : System Description".
Memory function	The seat, steering column and door mirror move to the stored driving position by pressing seat memory switch (1 or 2). The seat position set with the seat memory switch cannot be operated interlocked with the Intelligent Key. For details on Memory function, refer to ADP-14, "MEMORY FUNCTION : System Description".

NOTE:
The lumbar support system is controlled independently with no link to the automatic drive positioner system. Refer to SE-11, "LUMBAR SUPPORT SYSTEM : System Description".

AUTOMATIC DRIVE POSITIONER SYSTEM : Circuit Diagram

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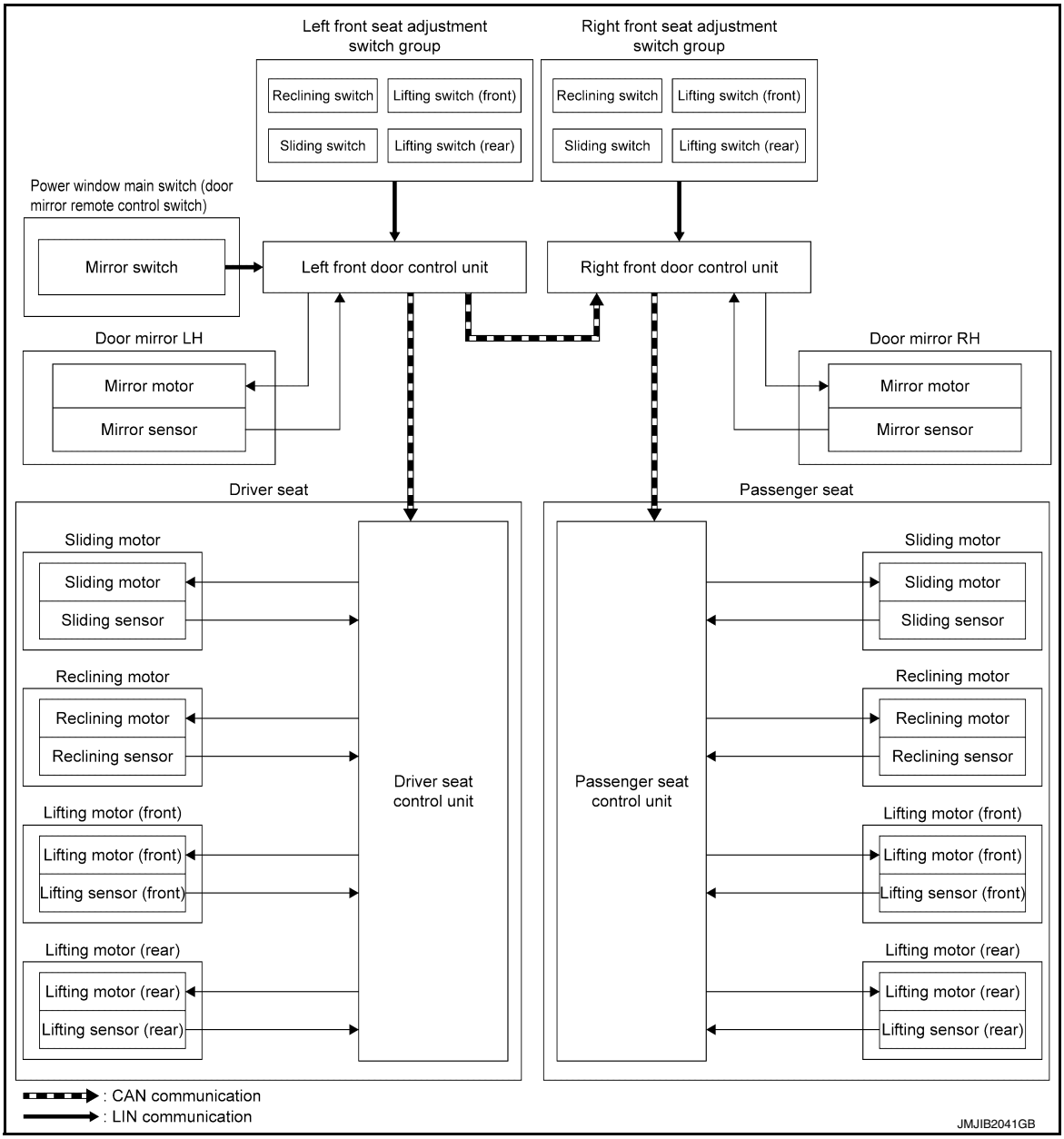


MANUAL FUNCTION

MANUAL FUNCTION : System Description

INFOID:0000000013612821

SYSTEM DIAGRAM



CAN COMMUNICATION SIGNAL ITEM

Transmit unit	Signal name	Receive unit
Front door control unit	• Reclining switch signal • Sliding switch signal • Lifting (front) switch signal • Lifting (rear) switch signal	Seat control unit
Left front door control unit	Door mirror motor request signal	Right front door control unit

SYSTEM DESCRIPTION

The seat position (seat and door mirror position) can be adjusted manually with seat adjustment switch group and door mirror remote control switch.

Operation procedure

1. Operate seat adjustment switch group or door mirror remote control switch.
2. The driver or passenger seat and door mirror operates according to the operation of each switch.

NOTE:
Seat operates only up to two places at the same time.

DETAIL FLOW

Seat

Order	Input	Output	Control unit condition
1	Seat adjustment switch group (sliding, lifting, reclining)	—	The seat adjustment switch group signal is inputted to the seat control unit when the power seat switch is operated.
2	—	Motors (sliding, lifting, reclining)	The seat control unit outputs signals to each motor according to the seat adjustment switch group input signal.

NOTE:
The power seat can be operated manually regardless of the ignition switch position.

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 front door control unit when the door mirror remote control switch is operated.
2	—	Motors (Door mirror motor)	The front door control unit actuates each motor according to the operation of the door mirror remote control switch.

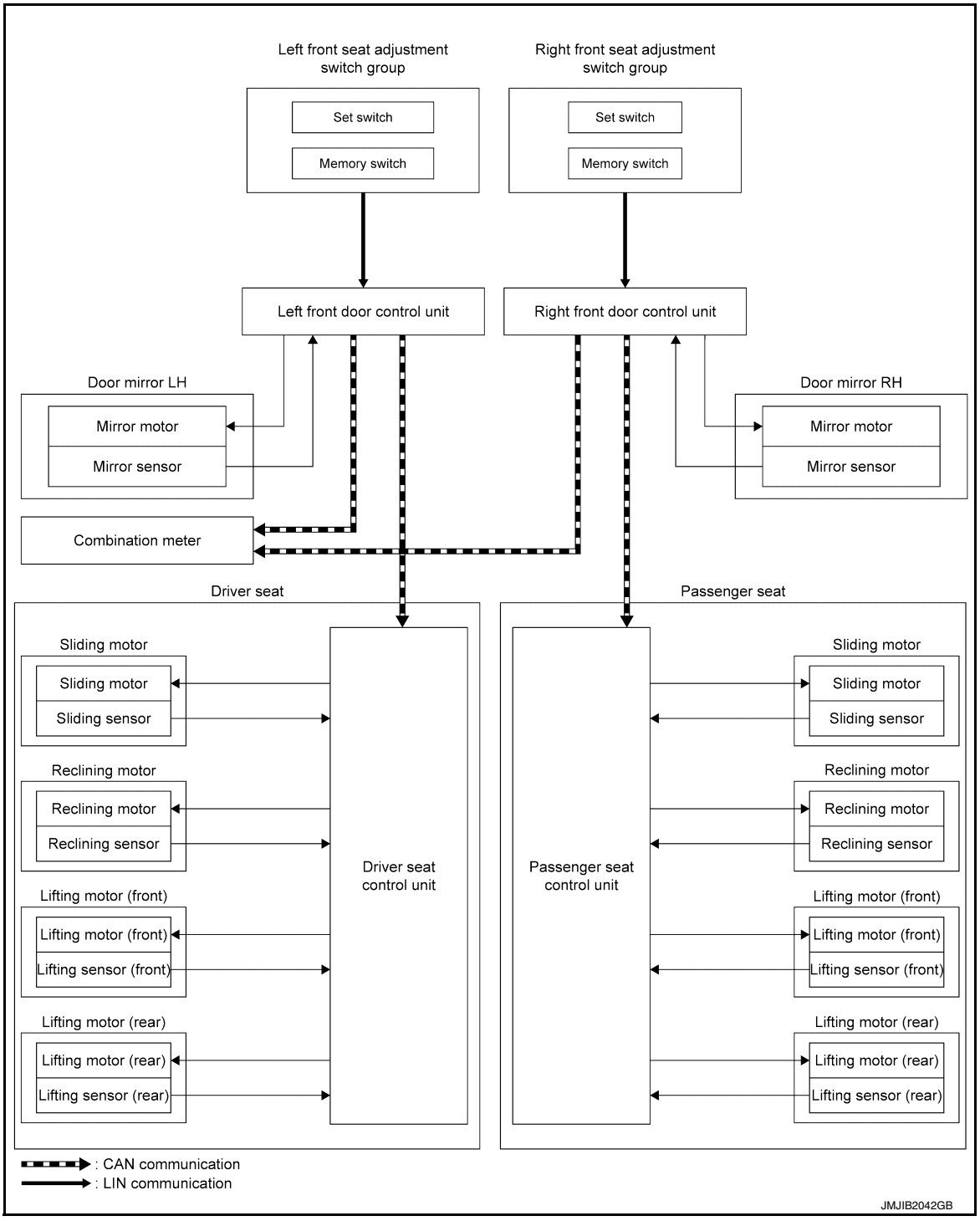
NOTE:
The door mirrors can be operated manually when ignition switch is in either ACC or ON position.

MEMORY FUNCTION

MEMORY FUNCTION : System Description

INFOID:0000000013612822

SYSTEM DIAGRAM



CAN COMMUNICATION SIGNAL ITEM

Transmit unit	Signal name	Receive unit
Front door control unit	Memory operation signal	Seat control unit
Front door control unit	Acknowledgement tone after memory positions stored successfully request signal	Combination meter

SYSTEM DESCRIPTION

The seat control unit can store the optimum driving positions (seat and door mirror position) for 3 people.

Continuing to press and hold set switch 1, 2, or 3 in front seat adjustment switch group moves driver seat and passenger seat to the driving position memorized in each set switch.

NOTE:

Further information for the memory storing procedure. Refer to ADP-47, "Description".

Operation Procedure

1. Push desired memory switch.
2. Driver seat 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.

Item	Operation condition
Switch inputs • Seat adjustment switch group • Door mirror control switch • Set switch • Memory switch	OFF (Not operated)
Memory function	Registered

Detail Flow

Order	Input	Output	Control unit condition
1	Memory switch	—	The memory switch signal is inputted to the seat control unit when memory switch 1, 2, or 3 is operated.
2	—	Motors (Seat, door mirror)	Seat control unit operates each motor of seat when it recognizes the set switch press and hold and requests each motor operation to front door control unit via CAN communication. The front door control unit operates door mirror motor.
3	Sensors (Seat, door mirror)	—	Seat control unit judges the operating seat position with each seat sensor input. The positions of the outside mirror is monitored with each sensor signal. Seat control unit stops the operation of each motor when each part reaches the recorded address.

DIAGNOSIS SYSTEM (FRONT SEAT CONTROL UNIT)
DRIVER SIDE

DRIVER SIDE : CONSULT Function

INFOID:0000000013612823

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

APPLICATION ITEMS

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 control 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 IDENTIFICATION	Displays part numbers of driver seat control unit parts.

SELF-DIAGNOSIS RESULTS

Refer to ADP-24, "DTC Index".

DATA MONITOR

NOTE:
The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor Item	Description
CRT SEAT FORE/AFT ADJUST	Value when battery connections are standard. If it moves backward, the value increases. If it moves forward, the value decreases.
CRT SEAT HEIGHT ADJUST	Value when battery connections are standard. If it moves DOWN, the value increases. If it moves UP, the value decreases.
CRT BACKREST ADJUST	Value when battery connections are standard. If it moves backward, the value increases. If it moves forward, the value decreases.
CRT SEAT INCLINATION ADJ	Value when battery connections are standard. If it moves DOWN, the value increases. If it moves UP, the value decreases.
CRT HEAD RESTRAINT ADJ	—
CRT SE CUSHION LENG ADJ	—
CRT STR CLM IN/OUT ADJ	—
CRT STR CLM UP/DOWN ADJ	—
EASY-ENTRY SYS FORWARD	—
EASY-ENTRY SYS BACK	—
NML SEAT FORE/AFT ADJUST	—
NML SEAT HEIGHT ADJUST	—
NML BACKREST ADJUST	—
NML SEAT INCLINATION ADJ	—
NML HEAD RESTRAINT ADJ	—
NML SE CUSHION LENG ADJ	—
NML STR CLM IN/OUT ADJ	—
NML STR CLM UP/DOWN ADJ	—
LONGITUDINAL ADJUSTMENT	—
HEIGHT ADJUSTMENT	—

Monitor Item	Description
MECHANIC CONSTANT	—
TILT ADJUST (HEIGHT FR)	—
NECKREST ADJUSTMENT	—
SEAT CUSHION LOWNESS	—
FORWARD/BACKWARD	—
HIGH/LOW	—
MAXI VALUE ADAPTIONBUFF	—
SOFTSTOP POS LA FRONT	—
SOFTSTOP POS LA BACK	—
SOFTSTOP POS HA ABOVE	—
USED VARIANT	—
IDENTIFIED VARIANT CAN	—

ACTIVE TEST

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

Monitor Item	Description
Driver seat sliding motor	Activates/deactivates the sliding motor.
Driver seat lifting motor (rear)	Activates/deactivates the lifting motor (rear).
Driver seat lifting motor (front)	Activates/deactivates the lifting motor (front).
Driver seat headrest motor	**NOTE:** This item is displayed, but cannot be monitored
Driver seat reclining motor	Activates/deactivates the reclining motor.

WORK SUPPORT

Monitor Item	Description
NORMALIZATION	It initializes the value of each sensor.

PASSENGER SIDE

PASSENGER SIDE : CONSULT Function

INFOID:0000000013612824

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

APPLICATION ITEMS

Diagnostic mode [Passenger seat control unit]	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 passenger seat control 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 IDENTIFICATION	Displays part numbers of passenger seat control unit parts.

SELF-DIAGNOSIS RESULTS

Refer to ADP-30, "DTC Index".

DATA MONITOR

NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor Item	Description
CRT SEAT FORE/AFT ADJUST	Value when battery connections are standard. If it moves backward, the value increases. If it moves forward, the value decreases.
CRT SEAT HEIGHT ADJUST	Value when battery connections are standard. If it moves DOWN, the value increases. If it moves UP, the value decreases.
CRT BACKREST ADJUST	Value when battery connections are standard. If it moves backward, the value increases. If it moves forward, the value decreases.
CRT SEAT INCLINATION ADJ	Value when battery connections are standard. If it moves DOWN, the value increases. If it moves UP, the value decreases.
CRT HEAD RESTRAINT ADJ	—
EASY-ENTRY SYS FORWARD	—
EASY-ENTRY SYS BACK	—
NML SEAT FORE/AFT ADJUST	—
NML SEAT HEIGHT ADJUST	—
NML BACKREST ADJUST	—
NML SEAT INCLINATION ADJ	—
NML HEAD RESTRAINT ADJ	—
LONGITUDINAL ADJUSTMENT	—
HEIGHT ADJUSTMENT	—
MECHANIC CONSTANT	—
TILT ADJUST (HEIGHT FR)	—
NECKREST ADJUSTMENT	—
FORWARD/BACKWARD	—
HIGH/LOW	—
MAXI VALUE ADAPTIONBUFF	—
SOFTSTOP POS LA FRONT	—
SOFTSTOP POS LA BACK	—
SOFTSTOP POS HA ABOVE	—
USED VARIANT	—
IDENTIFIED VARIANT CAN	—

ACTIVE TEST

CAUTION:

When driving vehicle, do not perform active test.

Monitor Item	Description
Front passenger seat sliding motor	Activates/deactivates the sliding motor.
Front passenger seat lifting motor (rear)	Activates/deactivates the lifting motor (rear).
Front passenger seat lifting motor (front)	Activates/deactivates the lifting motor (front).
Front passenger seat headrest motor	**NOTE:** This item is displayed, but cannot be monitored
Front passenger seat reclining motor	Activates/deactivates the reclining motor.

WORK SUPPORT

Monitor Item	Description
NORMALIZATION	It initializes the value of each sensor.

ECU DIAGNOSIS INFORMATION

DRIVER SEAT CONTROL UNIT

Reference Value

INFOID:0000000013612825

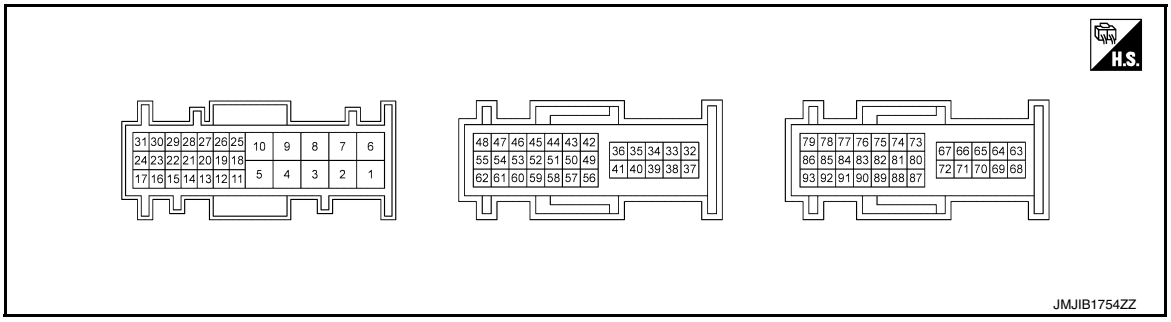
VALUES ON THE DIAGNOSIS TOOL

NOTE:
The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor Item	Condition	Value/Status
CRT SEAT FORE/AFT ADJUST	Forward	The numeral value decreases
	Backward	The numeral value increases
	Other than the above	No change to numeral value
CRT SEAT HEIGHT ADJUST	Upward	The numeral value increases
	Downward	The numeral value decreases
	Other than the above	No change to numeral value
CRT BACKREST ADJUST	Forward	The numeral value decreases
	Backward	The numeral value increases
	Other than the above	No change to numeral value
CRT SEAT INCLINATION ADJ	Upward	The numeral value decreases
	Downward	The numeral value increases
	Other than the above	No change to numeral value
CRT HEAD RESTRAINT ADJ	—	**NOTE:** The item is indicated, but not used.
CRT SE CUSHION LENG ADJ	—	**NOTE:** The item is indicated, but not used.
CRT STR CLM IN/OUT ADJ	—	**NOTE:** The item is indicated, but not used.
CRT STR CLM UP/DOWN ADJ	—	**NOTE:** The item is indicated, but not used.
EASY-ENTRY SYS FORWARD	—	**NOTE:** The item is indicated, but not used.
EASY-ENTRY SYS BACK	—	**NOTE:** The item is indicated, but not used.
NML SEAT FORE/AFT ADJUST	—	—
NML SEAT HEIGHT ADJUST	—	—
NML BACKREST ADJUST	—	—
NML SEAT INCLINATION ADJ	—	—
NML HEAD RESTRAINT ADJ	—	—
NML SE CUSHION LENG ADJ	—	—
NML STR CLM IN/OUT ADJ	—	—
NML STR CLM UP/DOWN ADJ	—	—
LONGITUDINAL ADJUSTMENT	—	—
HEIGHT ADJUSTMENT	—	—
MECHANIC CONSTANT	—	—
TILT ADJUST (HEIGHT FR)	—	—
NECKREST ADJUSTMENT	—	—
SEAT CUSHION LOWNESS	—	—

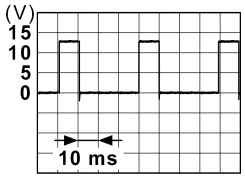
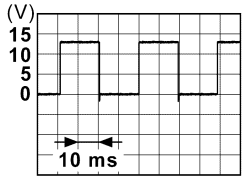
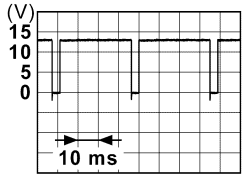
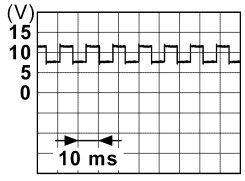
Monitor Item	Condition	Value/Status
FORWARD/BACKWARD	—	—
HIGH/LOW	—	—
MAXI VALUE ADAPTIONBUFF	—	—
SOFTSTOP POS LA FRONT	—	—
SOFTSTOP POS LA BACK	—	—
SOFTSTOP POS HA ABOVE	—	—
SOFTSTOP POS HA BELOW	—	—
USED VARIANT	—	—
IDENTIFIED VARIANT CAN	—	—

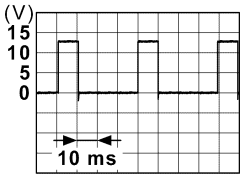
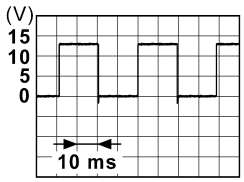
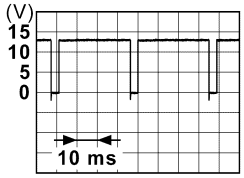
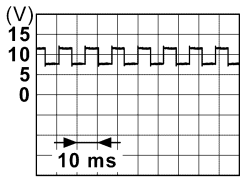
TERMINAL LAYOUT

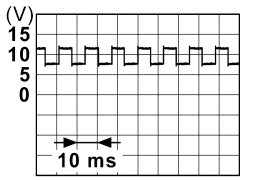
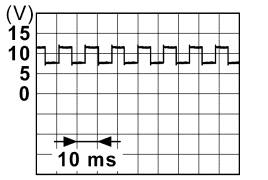


PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ output			
3 (R)	Ground	Battery power supply	Input	—		11 – 15.5 V
4 (BR)	Ground	Ground	Ground	—		0 V
18 (R)	Ground	Battery power supply	Input	—		11 – 15.5 V
29 (R)	—	CAN-H	—	—		—
30 (BR)	—	CAN-L	—	—		—
32 (BR)	Ground	Heater seat ground (seatback)	—	—		0 V
34 (GR)	Ground	Reclining motor backward output signal	Output	Seat reclining	Operate (backward)	11 – 15.5 V
					Other than the above	0 V

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ output			
35 (B)	Ground	Heater seat power supply (seatback)	Output	Heater seat switch	Off	—
					1	 JMJIB1576GB
					2	 JMJIB1577GB
					3	 JMJIB1578GB
38 (L)	Ground	Reclining motor forward signal	Input	Seat reclining	Operate (forward)	11 – 15.5 V
					Other than the above	0 V
43 (R)	Ground	Lumbar support power supply	Output	Ignition switch OFF, ACC or ON		9 – 16 V
49 (B)	Ground	Lumbar support ground	Input	—		0 V
51 (BR)	Ground	Reclining sensor ground	Input	—		0 V
55 (B)	Ground	Reclining sensor power supply	Input	Seat reclining	Operate	 JMJIB1579GB
					Other than the above	0 V
63 (L)	Ground	Sliding motor forward output signal	Output	Seat sliding	Operate (forward)	11 – 15.5 V
					Other than the above	0 V
64 (GR)	Ground	Lifting motor (rear) down output signal	Output	Seat lifting (rear)	Operate (downward)	11 – 15.5 V
					Other than the above	0 V

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ output			
66 (B)	Ground	Heater seat power supply (seat cushion)	Output	Heater seat switch	Off	—
					1	 JMJIB1576GB
					2	 JMJIB1577GB
					3	 JMJIB1578GB
67 (BR)	Ground	Heater seat ground (seat cushion)	—	—		0 V
68 (GR)	Ground	Lifting motor (front) down output signal	Output	Seat lifting (front)	Operate (downward)	11 – 15.5 V
					Other than the above	0 V
69 (R)	Ground	Sliding motor back-ward output signal	Output	Seat sliding	Operate (backward)	11 – 15.5 V
					Other than the above	0 V
70 (W)	Ground	Lifting motor (front) up output signal	Output	Seat lifting (front)	Operate (upward)	11 – 15.5 V
					Other than the above	0 V
71 (V)	Ground	Lifting motor (rear) up output signal	Output	Seat lifting (rear)	Operate (upward)	11 – 15.5 V
					Other than the above	0 V
82 (Y)	Ground	Lifting sensor (front) signal	Input	Seat lifting (front)	Operate	 JMJIB1579GB
					Other than the above	0 V

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ output			
83 (P)	Ground	Lifting sensor (rear) signal	Input	Seat lifting (rear)	Operate	 JMJIB1579GB
					Other than the above	0 V
84 (O)	Ground	Sliding sensor signal	Input	Seat slide	Operate	 JMJIB1579GB
					Other than the above	0 V
90 (BR)	Ground	Sensor ground	—	—		0 V

Fail-Safe

INFOID:0000000013612826

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

Fail-safe	Display contents of CONSULT		
Only manual functions operate normally	B1D6C-31	Seat sliding motor position sensor	NO SIGNAL
	B1D70-31	Seat lifting motor (front) pos sensor	NO SIGNAL
	B1D74-31	Seat lifting motor (rear) pos sensor	NO SIGNAL
	B1D78-31	Seat reclining motor position sensor	NO SIGNAL
	B25AA-13	Seat sliding motor	CIRC OPEN
	B25AB-13	Seat lifting motor (rear)	CIRC OPEN
	B25AD-13	Seat reclining motor	CIRC OPEN
	B25AE-13	Seat lifting motor (front)	CIRC OPEN
	B2286-78	Calibration	ALIGNMENT OR ADJUSTMENT INCORRECT
	B2287-66	Calibration	SIGNAL HAS TOO MANY TRANSITIONS/EVENTS

DTC Index

INFOID:0000000013612827

DTC No.	CONSULT display		Reference
B1D6C-31	Seat sliding motor position sensor	NO SIGNAL	ADP-48
B1D70-31	Seat lifting motor (front) pos sensor	NO SIGNAL	ADP-50
B1D74-31	Seat lifting motor (rear) pos sensor	NO SIGNAL	ADP-52
B1D78-31	Seat reclining motor position sensor	NO SIGNAL	ADP-54
B1D9B-54	Seat sliding adjustment	MISSING CALIBRATION	ADP-56

DTC No.	CONSULT display		Reference
B1DAA-54	Seat lifting (rear) adjustment	MISSING CALIBRATION	ADP-58
B1DAC-54	Seat reclining adjustment	MISSING CALIBRATION	ADP-60
B1E04-54	Seat lifting (front) adjustment	MISSING CALIBRATION	ADP-62
B210D-16	Power supply	CIRC VOLT BELOW THRESHOLD	ADP-64
B210E-17	Power supply	CIRC VOLT ABOVE THRESHOLD	ADP-68
B221C-96	Driver seat control unit	CMPNENT INTERNAL MLFNCTN	ADP-72
B25AA-13	Seat sliding motor	CIRC OPEN	ADP-74
B25AB-13	Seat lifting motor (rear)	CIRC OPEN	ADP-77
B25AD-13	Seat reclining motor	CIRC OPEN	ADP-81
B25AE-13	Seat lifting motor (front)	CIRC OPEN	ADP-84
B2286-78	Calibration	ALIGNMENT OR ADJUSTMENT INCORRECT	ADP-94
B2287-66	Calibration	SIGNAL HAS TOO MANY TRANSITIONS/EVENTS	ADP-95
B1EAE-78	Seat sliding adjustment	ALIGNMENT OR ADJUSTMENT INCORRECT	ADP-96
U0155-87	COMMUNICATION ERROR (LOST)	MISSING MESSAGE	ADP-98
U0168-87	COMMUNICATION ERROR (LOST)	MISSING MESSAGE	ADP-101
U112F-87	Communication error	MISSING MESSAGE	ADP-104
U141D-64	Communication error	SIGNAL PLAUSIBILITY FAILURE	ADP-107

PASSENGER SEAT CONTROL UNIT

Reference Value

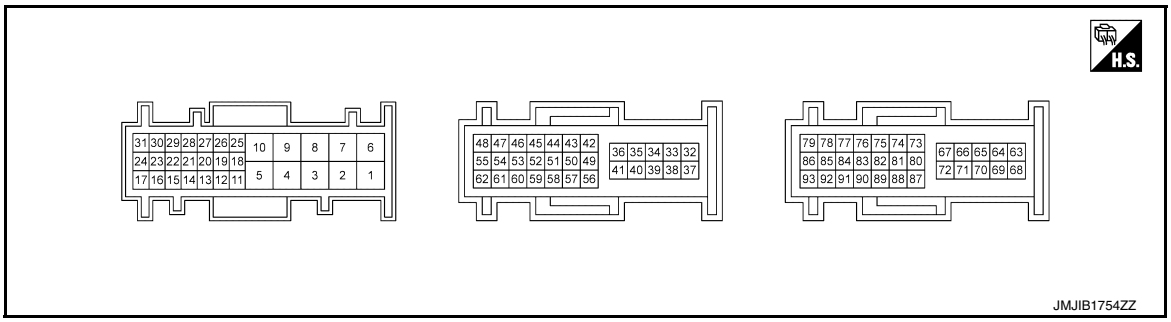
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VALUES ON THE DIAGNOSIS TOOL

NOTE:
The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

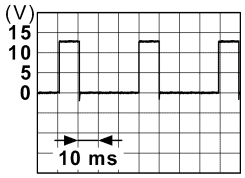
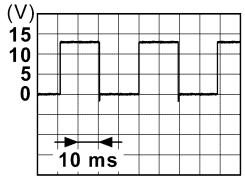
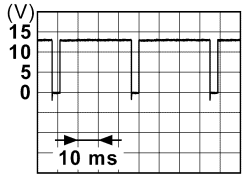
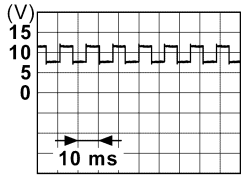
Monitor Item	Condition	Value/Status
CRT SEAT FORE/AFT ADJUST	Forward	The numeral value decreases
	Backward	The numeral value increases
	Other than the above	No change to numeral value
CRT SEAT HEIGHT ADJUST	Upward	The numeral value increases
	Downward	The numeral value decreases
	Other than the above	No change to numeral value
CRT BACKREST ADJUST	Forward	The numeral value decreases
	Backward	The numeral value increases
	Other than the above	No change to numeral value
CRT SEAT INCLINATION ADJ	Upward	The numeral value decreases
	Downward	The numeral value increases
	Other than the above	No change to numeral value
CRT HEAD RESTRAINT ADJ	—	**NOTE:** The item is indicated, but not used.
EASY-ENTRY SYS FORWARD	—	**NOTE:** The item is indicated, but not used.
EASY-ENTRY SYS BACK	—	**NOTE:** The item is indicated, but not used.
NML SEAT FORE/AFT ADJUST	—	—
NML SEAT HEIGHT ADJUST	—	—
NML BACKREST ADJUST	—	—
NML SEAT INCLINATION ADJ	—	—
NML HEAD RESTRAINT ADJ	—	—
LONGITUDINAL ADJUSTMENT	—	—
HEIGHT ADJUSTMENT	—	—
MECHANIC CONSTANT	—	—
TILT ADJUST (HEIGHT FR)	—	—
NECKREST ADJUSTMENT	—	—
FORWARD/BACKWARD	—	—
HIGH/LOW	—	—
MAXI VALUE ADAPTIONBUFF	—	—
SOFTSTOP POS LA FRONT	—	—
SOFTSTOP POS LA BACK	—	—
SOFTSTOP POS HA ABOVE	—	—
SOFTSTOP POS HA BELOW	—	—
USED VARIANT	—	—
IDENTIFIED VARIANT CAN	—	—

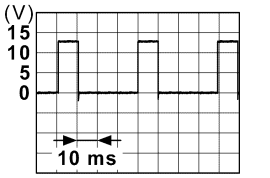
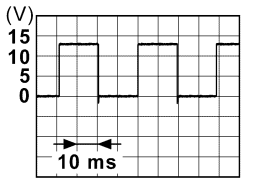
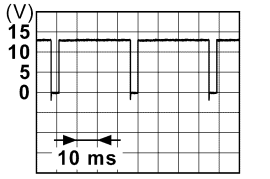
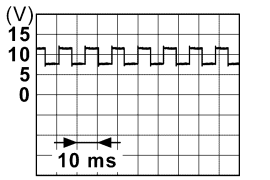
TERMINAL LAYOUT

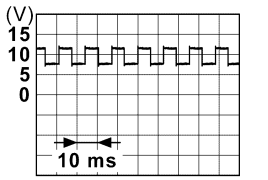
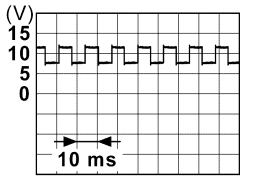


PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ output			
3 (R)	Ground	Battery power supply	Input	—		11 – 15.5 V
4 (BR)	Ground	Ground	—	—		0 V
13 (BR)	Ground	Ground	—	—		0 V
18 (R)	Ground	Battery power supply	Input	—		11 – 15.5 V
29 (R)	—	CAN-H	—	—		—
30 (BR)	—	CAN-L	—	—		—
31* (—)	—	—	—	—		—
32 (BR)	Ground	Heater seat ground (seatback)	—	—		0 V
34 (GR)	Ground	Reclining motor backward output signal	Output	Seat reclining	Operate (backward)	11 – 15.5 V
					Other than the above	0 V

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ output			
35 (B)	Ground	Heater seat power supply (seatback)	Output	Heater seat switch	Off	—
					1	 JMJIB1576GB
					2	 JMJIB1577GB
					3	 JMJIB1578GB
38 (L)	Ground	Reclining motor forward signal	Input	Seat reclining	Operate (forward)	11 – 15.5 V
					Other than the above	0 V
43 (R)	Ground	Lumbar support power supply	Output	Ignition switch OFF, ACC or ON		9 – 16 V
49 (B)	Ground	Lumbar support ground	Input	—		0 V
51 (BR)	Ground	Reclining sensor ground	Input	—		0 V
55 (B)	Ground	Reclining sensor power supply	Input	Seat reclining	Operate	 JMJIB1579GB
					Other than the above	0 V
63 (L)	Ground	Sliding motor forward output signal	Output	Seat sliding	Operate (forward)	11 – 15.5 V
					Other than the above	0 V
64 (GR)	Ground	Lifting motor (rear) down output signal	Output	Seat lifting (rear)	Operate (downward)	11 – 15.5 V
					Other than the above	0 V

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ output			
66 (B)	Ground	Heater seat power supply (seat cushion)	Output	Heater seat switch	Off	—
					1	 JMJIB1576GB
					2	 JMJIB1577GB
					3	 JMJIB1578GB
67 (BR)	Ground	Heater seat ground (seat cushion)	—	—		0 V
68 (GR)	Ground	Lifting motor (front) down output signal	Output	Seat lifting (front)	Operate (downward)	11 – 15.5 V
					Other than the above	0 V
69 (R)	Ground	Sliding motor back-ward output signal	Output	Seat sliding	Operate (backward)	11 – 15.5 V
					Other than the above	0 V
70 (W)	Ground	Lifting motor (front) up output signal	Output	Seat lifting (front)	Operate (upward)	11 – 15.5 V
					Other than the above	0 V
71 (V)	Ground	Lifting motor (rear) up output signal	Output	Seat lifting (rear)	Operate (upward)	11 – 15.5 V
					Other than the above	0 V
82 (Y)	Ground	Lifting sensor (front) signal	Input	Seat lifting (front)	Operate	 JMJIB1579GB
					Other than the above	0 V

Terminal No. (Wire color)		Description		Condition		Value (Approx.)
+	-	Signal name	Input/ output			
83 (P)	Ground	Lifting sensor (rear) signal	Input	Seat lifting (rear)	Operate	 JMJIB1579GB
					Other than the above	0 V
84 (O)	Ground	Sliding sensor signal	Input	Seat slide	Operate	 JMJIB1579GB
					Other than the above	0 V
90 (BR)	Ground	Sensor ground	—	—		0 V

*: This harness is connected but not used.

Fail-Safe

INFOID:0000000013612829

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

Fail-safe	Display contents of CONSULT		
Only manual functions operate normally	B1D6C-31	Seat sliding motor position sensor	NO SIGNAL
	B1D70-31	Seat lifting motor (front) pos sensor	NO SIGNAL
	B1D74-31	Seat lifting motor (rear) pos sensor	NO SIGNAL
	B1D78-31	Seat reclining motor position sensor	NO SIGNAL
	B25AA-13	Seat sliding motor	CIRC OPEN
	B25AB-13	Seat lifting motor (rear)	CIRC OPEN
	B25AD-13	Seat reclining motor	CIRC OPEN
	B25AE-13	Seat lifting motor (front)	CIRC OPEN

DTC Index

INFOID:0000000013612830

DTC No.	CONSULT display		Reference
B1D6C-31	Seat sliding motor position sensor	NO SIGNAL	ADP-49
B1D70-31	Seat lifting motor (front) pos sensor	NO SIGNAL	ADP-51
B1D74-31	Seat lifting motor (rear) pos sensor	NO SIGNAL	ADP-53
B1D78-31	Seat reclining motor position sensor	NO SIGNAL	ADP-55
B1D9B-54	Seat sliding adjustment	MISSING CALIBRATION	ADP-56
B1DAA-54	Seat lifting (rear) adjustment	MISSING CALIBRATION	ADP-58
B1DAC-54	Seat reclining adjustment	MISSING CALIBRATION	ADP-60

DTC No.	CONSULT display		Reference
B1E04-54	Seat lifting (front) adjustment	MISSING CALIBRATION	ADP-62
B210D-16	Power supply	CIRC VOLT BELOW THRESHOLD	ADP-65
B210E-17	Power supply	CIRC VOLT ABOVE THRESHOLD	ADP-69
B221C-96	Driver seat control unit	CMPNENT INTERNAL MLFNCTN	ADP-72
B25AA-13	Seat sliding motor	CIRC OPEN	ADP-75
B25AB-13	Seat lifting motor (rear)	CIRC OPEN	ADP-78
B25AD-13	Seat reclining motor	CIRC OPEN	ADP-82
B25AE-13	Seat lifting motor (front)	CIRC OPEN	ADP-85
B1EAE-78	Seat sliding adjustment	ALIGNMENT OR ADJUSTMENT INCORRECT	ADP-96
U0155-87	COMMUNICATION ERROR (LOST)	MISSING MESSAGE	ADP-99
U0168-87	COMMUNICATION ERROR (LOST)	MISSING MESSAGE	ADP-102
U112F-87	Communication error	MISSING MESSAGE	ADP-105
U141D-64	Communication error	SIGNAL PLAUSIBILITY FAILURE	ADP-108

FRONT DOOR CONTROL UNIT

List of ECU Reference

INFOID:0000000013612831

ECU	Reference
LEFT FRONT DOOR CONTROL UNIT	DLK-50, "Reference Value"
	DLK-57, "Fail-safe"
	DLK-58, "DTC Inspection Priority Chart"
	DLK-60, "DTC Index"
RIGHT FRONT DOOR CONTROL UNIT	DLK-62, "Reference Value"
	DLK-68, "Fail-safe"
	DLK-69, "DTC Inspection Priority Chart"
	DLK-70, "DTC Index"

BCM (BODY CONTROL MODULE)

List of ECU Reference

INFOID:0000000013612832

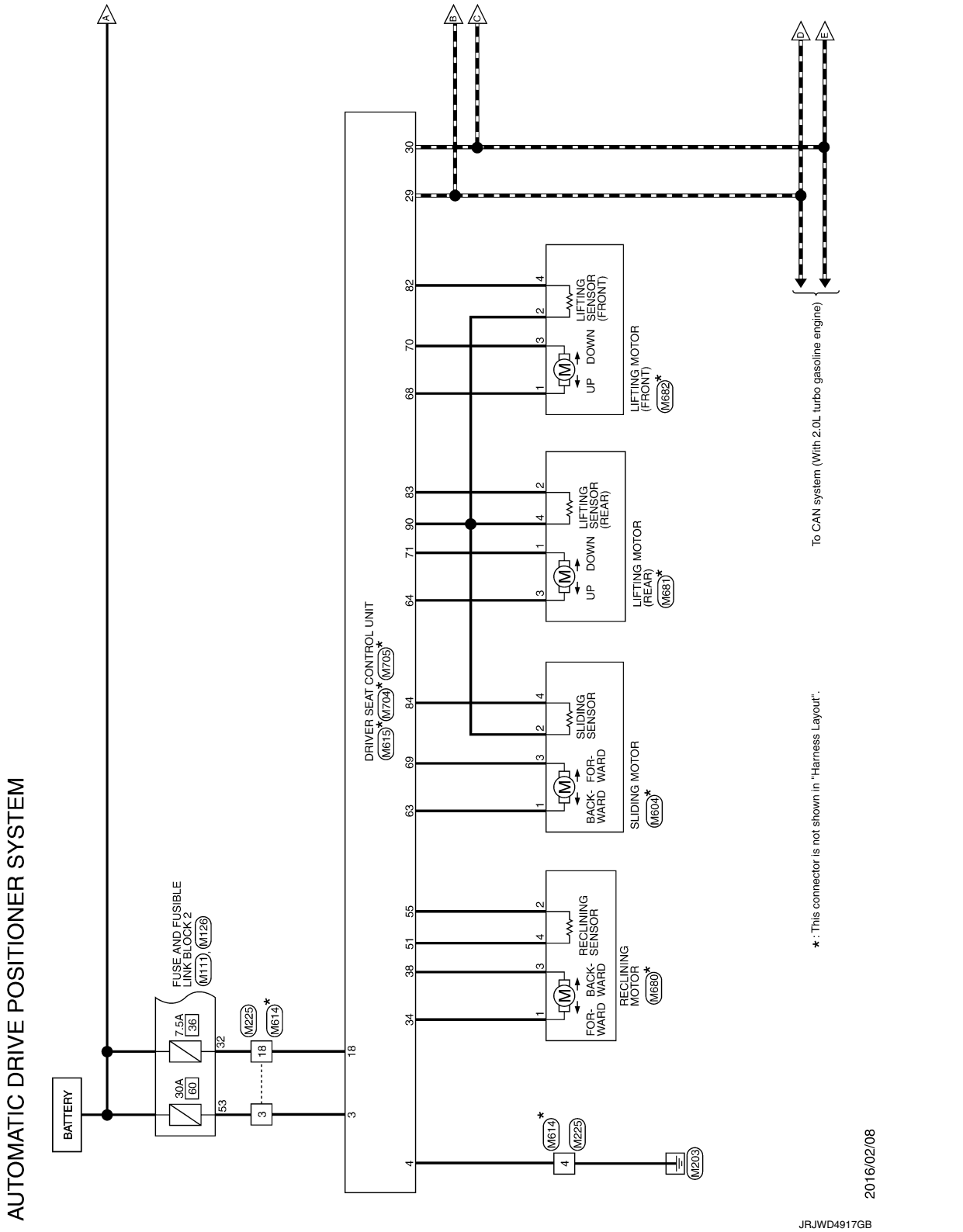
ECU	Reference
BCM	BCS-32, "Reference Value"
	BCS-50, "Fail-safe"
	BCS-51, "DTC Index"

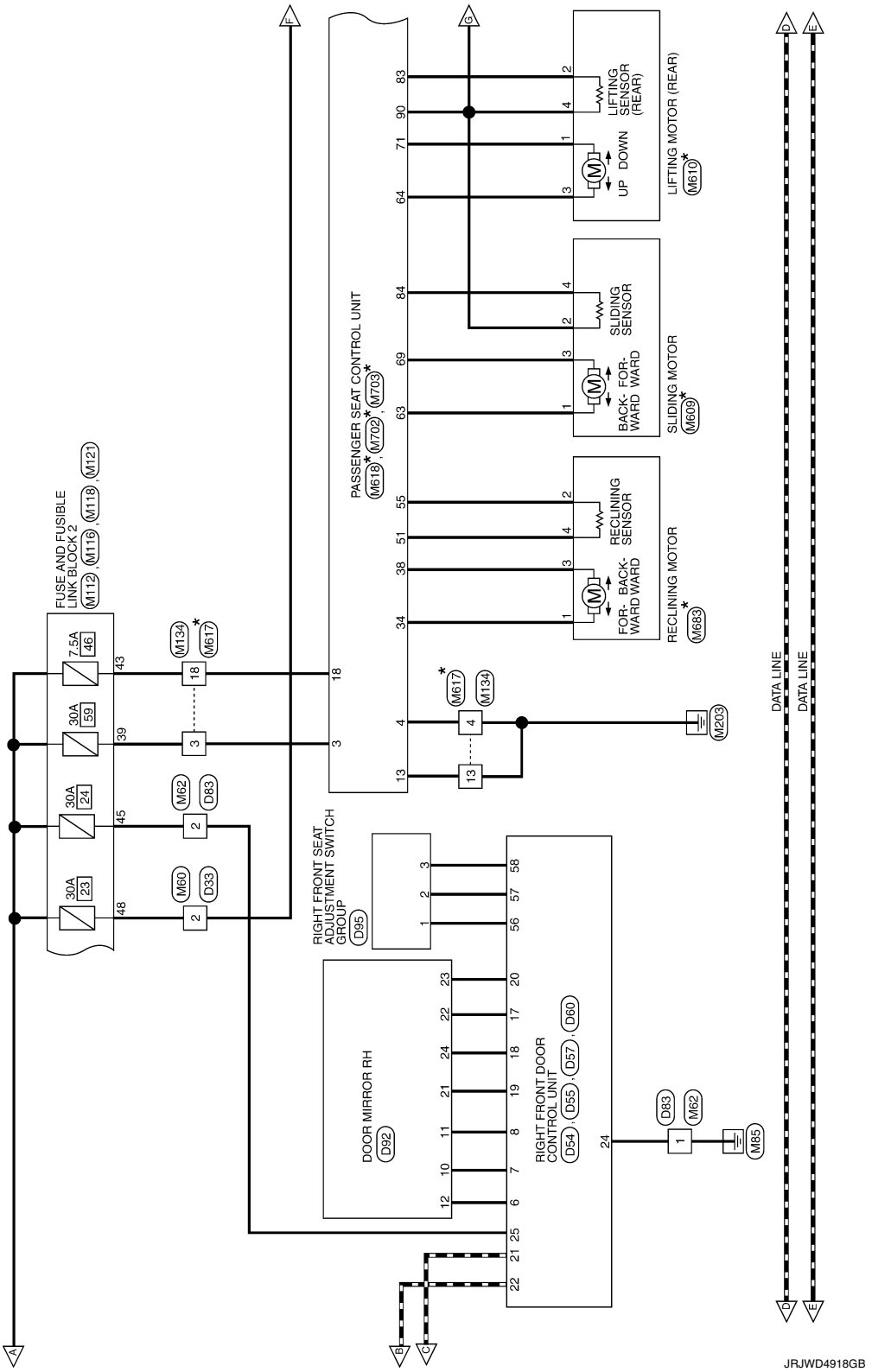
WIRING DIAGRAM

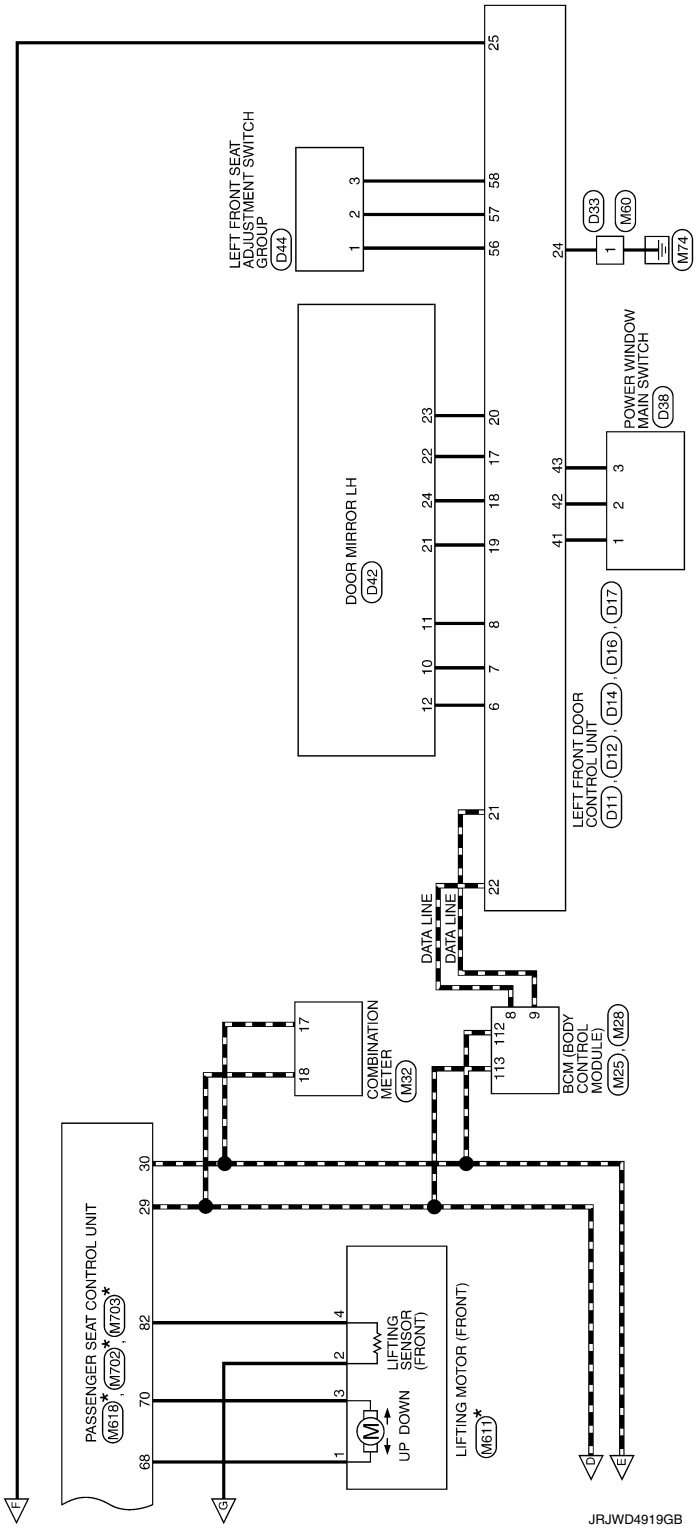
AUTOMATIC DRIVE POSITIONER SYSTEM

Wiring Diagram

INFOID:0000000013612833




FUSE AND FUSIBLE LINK BLOCK 2
(M112), (M116), (M118), (M121)
7.5A 46
30A 59
30A 24
30A 23
PASSENGER SEAT CONTROL UNIT
(M618)*, (M702)*, (M703)*
LIFTING SENSOR (REAR)
UP DOWN
LIFTING MOTOR (REAR)
(M610)*
SLIDING SENSOR
BACK- WARD FOR- WARD
SLIDING MOTOR
(M609)*
RECLINING SENSOR
FOR- WARD BACK- WARD
RECLINING MOTOR
(M683)*
DATA LINE
DATA LINE
RIGHT FRONT SEAT ADJUSTMENT SWITCH GROUP
(D95)
DOOR MIRROR RH
(D92)
RIGHT FRONT DOOR CONTROL UNIT
(D54), (D55), (D57), (D60)
(M134)*
(M617)*
(M62)
(D83)
(M60)
(D33)
(M203)
(M85)
JRJWD4918GB


LEFT FRONT SEAT ADJUSTMENT SWITCH GROUP
D44
DOOR MIRROR LH
D42
POWER WINDOW MAIN SWITCH
D38
LEFT FRONT DOOR CONTROL UNIT
D11, D12, D14, D16, D17
D33
M60
M74
DATA LINE
DATA LINE
COMBINATION METER
M32
BCM (BODY CONTROL MODULE)
M25, M28
PASSENGER SEAT CONTROL UNIT
M618*, M702*, M703*
LIFTING SENSOR (FRONT)
UP DOWN
LIFTING MOTOR (FRONT)
M611*
F
G
D
E
JRJWD4919GB

AUTOMATIC DRIVE POSITIONER SYSTEM

Connector No.	D11
Connector Name	LEFT FRONT DOOR CONTROL UNIT
Connector Type	MB_A0025405981

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	AUTOMATIC DIMMING MIRROR PWR
2	W	GND
3	B	DOOR MIRROR DEFOGGER GROUND
4	L	DOOR MIRROR DEFOGGER POWER SUPPLY
5	BR	BSW INDICATOR GND
6	P	ADJUSTMENTMOTOR POWER
7	L	VERTICAL INCLINATION CONT
8	Y	HORIZONTAL INCLINATION CONT
9	G	TURN SIG LAMP POWER
10	V	TURN SIG LAMP GND

Connector No.	D14
Connector Name	LEFT FRONT DOOR CONTROL UNIT
Connector Type	MB_A0025407881

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
11	BR	AMBIENT LAMP (OUTSIDE MIRROR) PWR
12	V	AMBIENT LAMP (OUTSIDE MIRROR) GND
13	L	BSW INDICATOR STANDBY SIG
14	O	DOOR MIRROR LH OPEN
15	O	DOOR MIRROR LH CLOSE
16	L	BSW INDICATOR WARNING SIG
17	GR	HORIZONTAL INCLINATION SIG
18	BR	POTENTIONMETER GND
19	G	VERTICAL INCLINATION SIG
20	B	POTENTIONMETER PWR

Connector No.	D17
Connector Name	LEFT FRONT DOOR CONTROL UNIT
Connector Type	MB_A0255459726

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
51	W	AMBIENT LAMP (FR INSIDE HANDLE) PWR
52	B	AMBIENT LAMP (FR INSIDE HANDLE) GND
53	P	STEP LAMP GND
54	V	STEP LAMP PWR
56	G	LEFT SEAT SW SIG (LIN)
57	Y	LEFT SEAT SW GND
58	R	RIGHT SEAT SW PWR
59	BR	AMBIENT LAMP (FR DOOR GRIP) GND
60	G	AMBIENT LAMP (FR DOOR GRIP) PWR

Connector No.	D38
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	MB_A0395456728

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	BR	-
3	R	-

Connector No.	D42
Connector Name	DOOR MIRROR LH
Connector Type	TH24MW-NH

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	G	-
4	BR	-
5	B	-
6	L	-
7	L	-
8	O	-
9	O	-
10	L	-
11	Y	-
12	P	-
13	W	-
14	V	-
16	V	-
17	SHIELD	-
18	W	-

Connector No.	D12
Connector Name	LEFT FRONT DOOR CONTROL UNIT
Connector Type	MB_A0025406281

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
21	BR	BODY CAN 2-L
22	R	BODY CAN 2-H
23	L	ROTARY CATCH SIGNAL
24	BR	GROUND
25	R	BATTERY POWER SUPPLY

Connector No.	D16
Connector Name	LEFT FRONT DOOR CONTROL UNIT
Connector Type	MB_A0255459626

H.S.

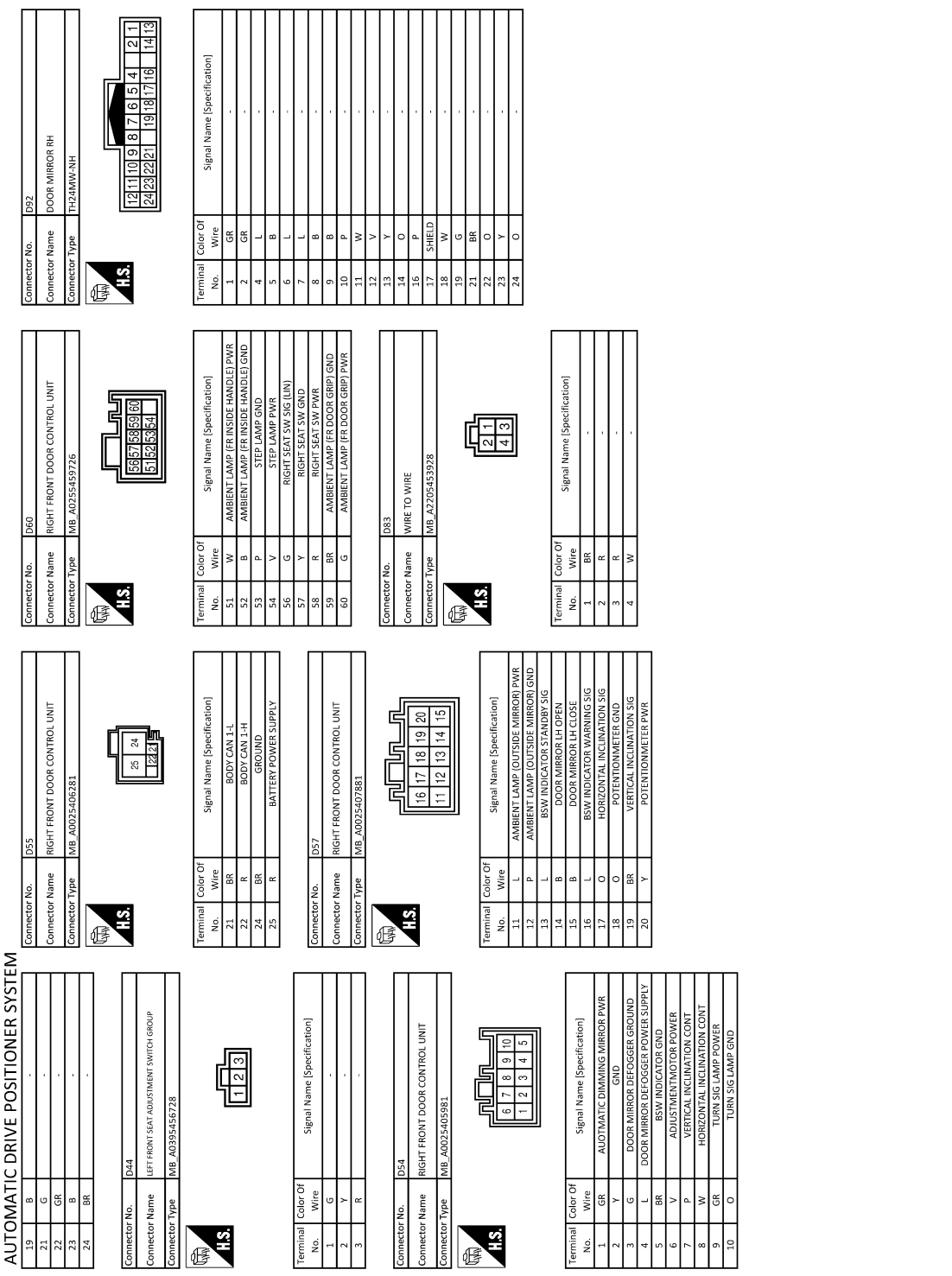
Terminal No.	Color Of Wire	Signal Name [Specification]
41	P	POWER WINDOW SW SIG (LIN)
42	BR	POWER WINDOW SW GND
43	R	POWER WINDOW SW PWR
44	L	DOOR LOCK AND UNLOCK SW SIG
45	W	DOOR LOCK AND UNLOCK SW GND
50	G	DOOR LOCK AND UNLOCK SW IND

Connector No.	D33
Connector Name	WIRE TO WIRE
Connector Type	MB_A2205453928

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	R	-
3	BR	-
4	R	-

JRJWD4920GB



JRJWD4921GB

AUTOMATIC DRIVE POSITIONER SYSTEM

Connector No.	D95
Connector Name	RIGHT FRONT SEAT ADJUSTMENT SWITCH GROUP
Connector Type	MB_A0395456728

Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	Y	-
3	R	-

Connector No.	M25
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	MB_A0075405081

Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	ROTARY LIGHT SW GND
2	O	ROTARY LIGHT SW (PU,PR/TAIL)
3	R	ROTARY LIGHT SW (AUTO/LOW)
4	G	ROTARY LIGHT SW (FR FOG)
5	Y	-
7	GR	SWITCH INDICATOR
8	R	CAN-H (BODY 2)
9	BR	CAN-L (BODY 2)
12	O	LIN (BS)
14	G	FOOT LAMP

Connector No.	M28
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	MB_A1665400481

Terminal No.	Color Of Wire	Signal Name [Specification]
67	V	BACK DOOR UNLOCK
69	GR	STOP LAMP (BODY RH)
70	B	REAR TURN SIGNAL LH
71	GR	BACK-UP LAMP RH
72	Y	LICENSE PLATE LAMP RH
73	L	RR POWER WINDOW SW RH UP
74	B	RR POWER WINDOW SW RH DOWN
75	L	RR POWER WINDOW SW RH GND
76	GR	HALL SENSOR RH POWER SUPPLY
77	R	SUB BAT-
78	B	TERMINAL RELAY 15R1 CONT
80	B	REAR WIPER RELAY CONT
82	GR	TAIL LAMP (BODY LH)
83	P	TERMINAL RELAY 15R2 CONT
85	B	TAIL LAMP (BK LH)
87	R	BAT (VIA LATCHING TERMINAL RELAY 30G)
89	O	HALL SENSOR RH GND
90	V	HALL SENSOR RH SIGNAL
91	P	FUEL LEVEL SENSOR GND
92	L	FUEL LEVEL SENSOR
93	GR	FUEL LEVEL SENSOR
94	Y	FUEL FILLER LID STATUS
97	G	LATCHING TERMINAL RELAY 30G CONT 1
98	B	LATCHING TERMINAL RELAY 30G GND 1
99	W	LATCHING TERMINAL RELAY 30G GND 2
100	V	LATCHING TERMINAL RELAY 30G CONT 2
101	Y	REAR DOOR INSIDE HANDLE LAMP CONT
102	GR	AMBIENT LAMP CONT
103	V	SUB BAT RELAY CONT
105	G	RR DOOR LH UNLOCK
106	W	FUEL FILLER LID UNLOCK
107	L	RR DOOR LH LOCK
108	R	SUB BAT+
109	O	LIN (ROOF)
112	BR	CAN-L (BODY 1)
113	R	CAN-H (BODY 1)

114	B	INJECTION RELAY CONT

Connector No.	M32
Connector Name	COMBINATION METER
Connector Type	MB_A0525452726

Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	GROUND
4	R	BATTERY POWER SUPPLY
12	GR	CAN-L
13	W	CAN-H
17	BR	CAN-L
18	R	CAN-H

Connector No.	M60
Connector Name	WIRE TO WIRE
Connector Type	MB_A0375450528

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	Y	-
3	BR	-
4	R	-

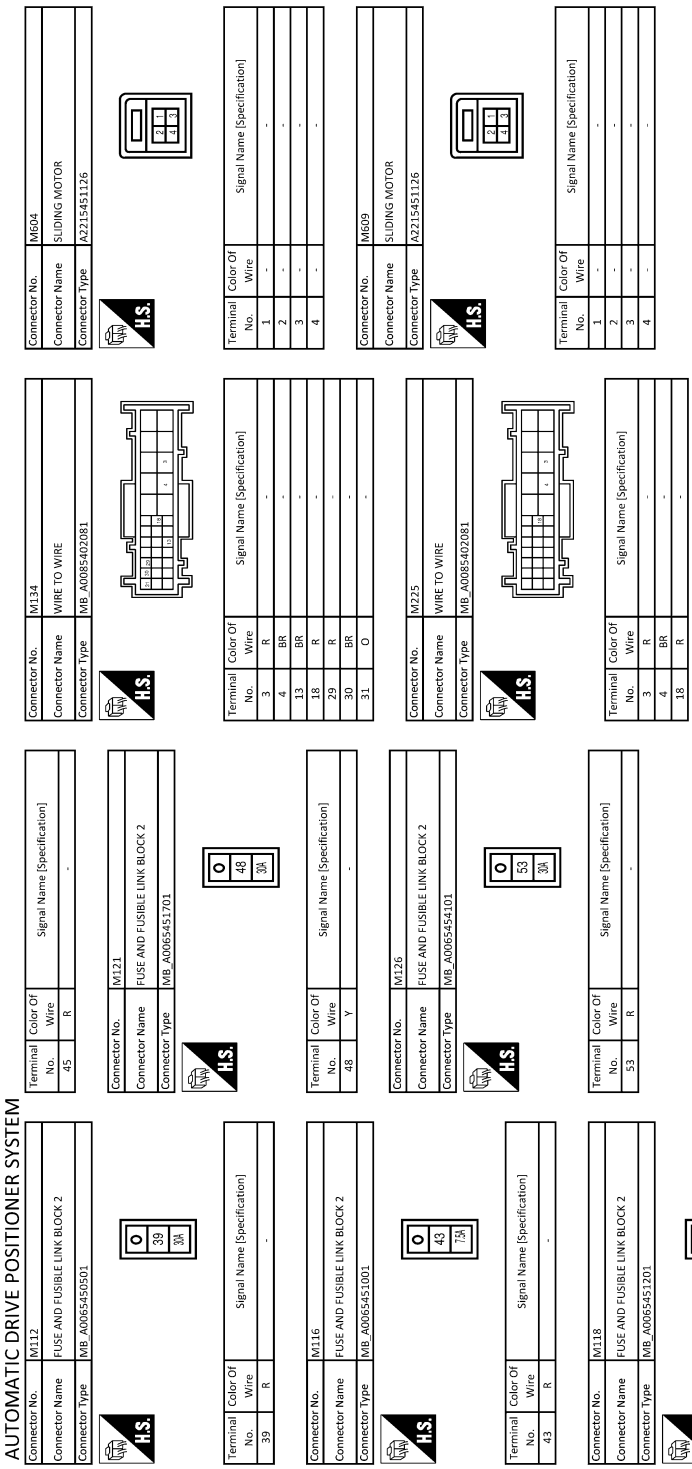
Connector No.	M62
Connector Name	WIRE TO WIRE
Connector Type	MB_A0375450528

Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	R	-
3	R	-
4	W	-

Connector No.	M111
Connector Name	FUSE AND FUSIBLE LINK BLOCK 2
Connector Type	MB_A0065450101

Terminal No.	Color Of Wire	Signal Name [Specification]
32	R	-
34	G	-
35	O	-
37	R	-

JRJWD4922GB



JRJWD4923GB

AUTOMATIC DRIVE POSITIONER SYSTEM

Connector No.	M610
Connector Name	LIFTING MOTOR(REAR)
Connector Type	A221545112 6

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-
4	-	-

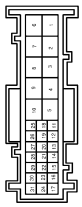
Connector No.	M611
Connector Name	LIFTING MOTOR(FRONT)
Connector Type	A221545112 6

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-
4	-	-

Connector No.	M614
Connector Name	WIRE TO WIRE
Connector Type	MB_A0085402081

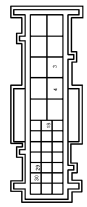
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
3	-	-
4	-	-
18	-	-
29	-	-
30	-	-

Connector No.	M615
Connector Name	DRIVER SEAT CONTROL UNIT
Connector Type	A2465400509

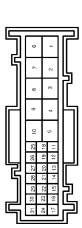
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
3	R	BATTERY POWER SUPPLY
4	BR	GROUND
18	R	BATTERY POWER SUPPLY
29	R	CAN-H
30	BR	CAN-L

Connector No.	M617
Connector Name	WIRE TO WIRE
Connector Type	MB_A0085402081

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
3	-	-
4	-	-
13	-	-
18	-	-
29	-	-
30	-	-
31	-	-

Connector No.	M618
Connector Name	PASSENGER SEAT CONTROL UNIT
Connector Type	A0085402281

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
3	R	BATTERY POWER SUPPLY
4	BR	GROUND
13	BR	GROUND
18	R	BATTERY POWER SUPPLY
29	R	CAN-H
30	BR	CAN-L
31	-	-

Connector No.	M680
Connector Name	RECLINING MOTOR
Connector Type	A221545112 6

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-
4	-	-

Connector No.	M681
Connector Name	LIFTING MOTOR(REAR)
Connector Type	A221545112 6

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-
4	-	-

JRJWD4924GB

AUTOMATIC DRIVE POSITIONER SYSTEM

Connector No.	M682
Connector Name	LIFTING MOTOR(FRONT)
Connector Type	A2215451126

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-
4	-	-

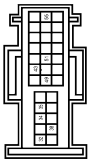
Connector No.	M683
Connector Name	RECLINING MOTOR
Connector Type	A2215451126

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-
4	-	-

Connector No.	M702
Connector Name	PASSENGER SEAT CONTROL UNIT
Connector Type	A0085402181

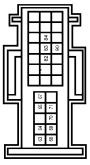
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
32	BR	SEAT HEATER GROUND
34	GR	RECLINING MOTOR POWER SUPPLY (BACKWARD)
35	B	SEAT HEATER POWER SUPPLY
38	L	RECLINING MOTOR POWER SUPPLY (FORWARD)
43	R	LAMBER SUPORT POWER SUPPLY
49	B	LAMBER SUPORT GROUND
51	BR	RECLINING SENSOR GROUND
55	B	RECLINING SENSOR POWER SUPPLY

Connector No.	M703
Connector Name	PASSENGER SEAT CONTROL UNIT
Connector Type	A0085402181

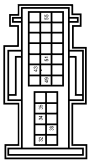
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
63	L	SLIDING MOTOR POWER SUPPLY (FORWARD)
64	GR	LIFTING MOTOR (REAR) POWER SUPPLY (DOWNWARD)
66	B	SEAT HEATER POWER SUPPLY
67	BR	SEAT HEATER GROUND
68	GR	LIFTING MOTOR (FRONT) POWER SUPPLY (DOWNWARD)
69	R	SLIDING MOTOR POWER SUPPLY (BACKWARD)
70	W	LIFTING MOTOR (FRONT) POWER SUPPLY (UPWARD)
71	V	LIFTING MOTOR (REAR) POWER SUPPLY (UPWARD)
82	Y	LIFTING SENSOR (FRONT) POWER SUPPLY
83	P	LIFTING SENSOR (REAR) POWER SUPPLY
84	O	SLIDING SENSOR POWER SUPPLY
90	BR	SENSOR GROUND

Connector No.	M704
Connector Name	DRIVER SEAT CONTROL UNIT
Connector Type	A0085402181

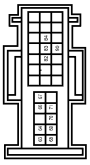
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
32	BR	SEAT HEATER GROUND
34	GR	RECLINING MOTOR POWER SUPPLY (BACKWARD)
35	B	SEAT HEATER POWER SUPPLY
38	L	RECLINING MOTOR POWER SUPPLY (FORWARD)
43	R	LAMBER SUPORT POWER SUPPLY
49	B	LAMBER SUPORT GROUND
51	BR	RECLINING SENSOR GROUND
55	B	RECLINING SENSOR POWER SUPPLY

Connector No.	M705
Connector Name	DRIVER SEAT CONTROL UNIT
Connector Type	A0085402181

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
63	L	SLIDING MOTOR POWER SUPPLY (FORWARD)
64	GR	LIFTING MOTOR (REAR) POWER SUPPLY (DOWNWARD)
66	B	SEAT HEATER POWER SUPPLY
67	BR	SEAT HEATER GROUND
68	GR	LIFTING MOTOR (FRONT) POWER SUPPLY (DOWNWARD)
69	R	SLIDING MOTOR POWER SUPPLY (BACKWARD)
70	W	LIFTING MOTOR (FRONT) POWER SUPPLY (UPWARD)
71	V	LIFTING MOTOR (REAR) POWER SUPPLY (UPWARD)
82	Y	LIFTING SENSOR (FRONT) POWER SUPPLY
83	P	LIFTING SENSOR (REAR) POWER SUPPLY
84	O	SLIDING SENSOR POWER SUPPLY
90	BR	SENSOR GROUND

JRJWD4925GB

BASIC INSPECTION

ADDITIONAL SERVICE WHEN REPLACING SEAT CONTROL UNIT

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000013612834

When replacing driver seat control unit, the procedures of AFTER REPLACEMENT must be performed. For work procedure, refer to ADP-43, "DRIVER SIDE : Work Procedure".

AFTER REPLACEMENT

After replacing driver seat control unit, the following items must be performed:

- Configuration
- System initialization

DRIVER SIDE : Work Procedure

INFOID:0000000013612835

1. PERFORM CONFIGURATION (WRITING VEHICLE SPECIFICATION)

With CONSULT

Perform configuration. Refer to ADP-44, "DRIVER SIDE : Description".

NOTE:

Log in to the network, according to the CONSULT screen.

>> GO TO 2.

2. PERFORM SYSTEM INITIALIZATION

With CONSULT

Perform system initialization. Refer to ADP-46, "Description".

>> END

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000013612836

When replacing passenger seat control unit, the procedures of AFTER REPLACEMENT must be performed. For work procedure, refer to ADP-43, "PASSENGER SIDE : Work Procedure".

AFTER REPLACEMENT

After replacing passenger seat control unit, the following items must be performed:

- Configuration
- System initialization

PASSENGER SIDE : Work Procedure

INFOID:0000000013612837

1. PERFORM CONFIGURATION (WRITING VEHICLE SPECIFICATION)

With CONSULT

Perform configuration. Refer to ADP-44, "PASSENGER SIDE : Description".

NOTE:

Log in to the network, according to the CONSULT screen.

>> GO TO 2.

2. PERFORM SYSTEM INITIALIZATION

With CONSULT

Perform system initialization. Refer to ADP-46, "Description".

>> END

CONFIGURATION (FRONT SEAT CONTROL UNIT)

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000013612838

Vehicle specification needs to be written with CONSULT because it is not written after replacing the driver seat control unit.
The configuration requires network connection. CONSULT connects to network and then it downloads the configuration data from the server. Then CONSULT writes the vehicle specification to the driver seat control unit.
Refer to ADP-44, "DRIVER SIDE : Work Procedure".
NOTE:
For details the network connection and operation, refer to “CONSULT Operation Manual”.
The configuration no need to “save” configuration data from the driver seat control unit. The configuration data is always generated freshly at the server and then downloaded to the CONSULT.
CAUTION:
- **Complete the procedure of “Read / Write Configuration” in order.**
- **If incorrect “Read / Write Configuration”, incidents might occur.**
- **Never perform “Read / Write Configuration” except for new driver seat control unit.**

DRIVER SIDE : Work Procedure

INFOID:0000000013612839

1.WRITING VEHICLE SPECIFICATION

CONSULT Configuration
Perform “WRITE CONFIGURATION” for CONTROL UNIT according to “CONSULT Operation Manual”.
NOTE:
- Log in the network according to CONSULT guidance.
- For details the network connection and operation, refer to “CONSULT Operation Manual”.

>> WORK END

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:0000000013612840

Vehicle specification needs to be written with CONSULT because it is not written after replacing the passenger seat control unit.
The configuration requires network connection. CONSULT connects to network and then it downloads the configuration data from the server. Then CONSULT writes the vehicle specification to the passenger seat control unit.
Refer to ADP-44, "PASSENGER SIDE : Work Procedure".
NOTE:
For details the network connection and operation, refer to “CONSULT Operation Manual”.
The configuration no need to “save” configuration data from the passenger seat control unit. The configuration data is always generated freshly at the server and then downloaded to the CONSULT.
CAUTION:
- **Complete the procedure of “Read / Write Configuration” in order.**
- **If incorrect “Read / Write Configuration”, incidents might occur.**
- **Never perform “Read / Write Configuration” except for new passenger seat control unit.**

PASSENGER SIDE : Work Procedure

INFOID:0000000013612841

1.WRITING VEHICLE SPECIFICATION

CONSULT Configuration
Perform “WRITE CONFIGURATION” for CONTROL UNIT according to “CONSULT Operation Manual”.
NOTE:
- Log in the network according to CONSULT guidance.
- For details the network connection and operation, refer to “CONSULT Operation Manual”.

>> WORK END

SYSTEM INITIALIZATION

Description

INFOID:0000000013612842

Always perform the initialization when the seat control unit is replaced.
For details, refer to ADP-46, "Work Procedure".

Work Procedure

INFOID:0000000013612843

1. STEP 1

- Move seat slide position and seat reclining position to the foremost positions.
- Move seat lift position (front and rear) to the lowest position.

>> GO TO 2.

2. STEP 2

Select “Normalization” in “ACTIVE TEST” mode of “AUTO DRIVE POS.” or “Passenger seat control unit” using CONSULT.

>> END

MEMORY STORING

Description

INFOID:0000000013612844

Always perform the memory storage when the seat control unit is replaced. The memory function will not operate normally if no memory storage is performed. For details, refer to ADP-47, "Work Procedure".

Work Procedure

INFOID:0000000013612845

Memory Storage Procedure

Three positions for the driver or passenger seat and outside mirror can be stored for memory operation by following procedure.

NOTE:

Memory registration can be performed with no restrictions of the shift position, vehicle speed, and ignition switch position.

1.REGISTRATION METHOD

1. Adjust driver or passenger seat and outside mirror position manually.
2. Push memory switch.
3. Push the set switch (1, 2 or 3) for at least 3 second after pushing the memory switch.
4. Confirm the operation of each part with memory operation.

NOTE:

When registration is performed correctly, buzzer integrated in the combination meter sounds.

>> END

DTC/CIRCUIT DIAGNOSIS

B1D6C SLIDING SENSOR
DRIVER SIDE

DRIVER SIDE : DTC Description

INFOID:0000000013612846

DTC DETECTION LOGIC

DTC		CONSULT screen terms		DTC detecting condition	
		(Trouble diagnosis content)	[Malfunction type]		
B1D6C	31	Seat sliding motor position sensor (Seat sliding motor position sensor)	NO SIGNAL	Diagnosis	When seat slide operate
				Signal (terminal)	Sliding sensor signal
				Threshold	Sliding sensor circuit malfunction
				Diagnosis delay time	1 second or less

POSSIBLE CAUSE

- Sliding sensor circuit
  (Sliding sensor circuit is open or shorted)
- Sliding motor

FAIL-SAFE

Only manual functions operate normally.

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Operate seat slide for forward and backward.
3. Check DTC in “Self Diagnostic Result” mode of “AUTO DRIVE POS.” using CONSULT.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-48, "DRIVER SIDE : Diagnosis Procedure".
NO–1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO–2 >> Confirmation after repair: INSPECTION END.

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000013612847

1.CHECK SLIDING MOTOR CIRCUIT

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

Sliding motor		Driver seat control unit		Continuity
Connector	Terminal	Connector	Terminal	
M604	2	M705	90	Existed
	4		84	

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connector.

2.REPLACE SLIDING MOTOR

Replace sliding motor (built in seat cushion frame). Refer to SE-74, "SEAT CUSHION : Disassembly and Assembly".

Is the DTC detected?

YES >> Refer to GI-56, "Intermittent Incident".
NO >> INSPECTION END

PASSENGER SIDE

PASSENGER SIDE : DTC Description

INFOID:0000000013612848

DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	CONSULT screen terms [Malfunction type]	DTC detecting condition	
B1D6C	31	Seat sliding motor position sensor (Seat sliding motor position sensor)	NO SIGNAL	Diagnosis	When seat slide operate
				Signal (terminal)	Sliding sensor signal
				Threshold	Sliding sensor circuit malfunction
				Diagnosis delay time	1 second or less

POSSIBLE CAUSE

- Sliding sensor circuit
  (Sliding sensor circuit is open or shorted)
- Sliding motor

FAIL-SAFE

Only manual functions operate normally.

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Operate seat slide for forward and backward.
3. Check DTC in “Self Diagnostic Result” mode of “Passenger seat control unit” using CONSULT.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-49, "PASSENGER SIDE : Diagnosis Procedure".
NO–1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO–2 >> Confirmation after repair: INSPECTION END.

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000013612849

1.CHECK SLIDING MOTOR CIRCUIT

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

Sliding motor		Passenger seat control unit		Continuity
Connector	Terminal	Connector	Terminal	
M609	2	M703	90	Existed
	4		84	

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connector.

2.REPLACE SLIDING MOTOR

Replace sliding motor (built in seat cushion frame). Refer to SE-74, "SEAT CUSHION : Disassembly and Assembly".

Is the DTC detected?

YES >> Refer to GI-56, "Intermittent Incident".
NO >> INSPECTION END

B1D70 LIFTING SENSOR (REAR)
DRIVER SIDE
DRIVER SIDE : DTC Description

INFOID:0000000013612850

DTC DETECTION LOGIC

DTC		CONSULT screen terms		DTC detecting condition	
		(Trouble diagnosis content)	[Malfunction type]		
B1D70	31	Seat lifting motor (rear) pos sensor (Seat lifting motor (rear) position sensor)	NO SIGNAL	Diagnosis	When lifting motor (rear) operate
				Signal (terminal)	Lifting sensor (rear) signal
				Threshold	Lifting sensor (rear) circuit malfunction
				Diagnosis delay time	1 second or less

POSSIBLE CAUSE
- Harness or connectors
  [Lifting sensor (rear) circuit is open or shorted]
- Lifting motor (rear)

FAIL-SAFE
Only manual functions operate normally.

DTC CONFIRMATION PROCEDURE
1.PERFORM DTC CONFIRMATION PROCEDURE
1. Turn ignition switch ON.
2. Operate seat lifting (rear) for up and down.
3. Check DTC in “Self Diagnostic Result” mode of “AUTO DRIVE POS.” using CONSULT.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-50, "DRIVER SIDE : Diagnosis Procedure".
NO–1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO–2 >> Confirmation after repair: INSPECTION END.

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000013612851

1.CHECK LIFTING MOTOR (REAR) CIRCUIT
1. Turn ignition switch OFF.
2. Disconnect lifting motor (rear) connector and driver seat control unit connector.
3. Check continuity between driver seat control unit harness connector and lifting motor (rear) harness connector.

Lifting motor (rear)		Driver seat control unit		Continuity
Connector	Terminal	Connector	Terminal	
M681	2	M705	83	Existed
	4		90	

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connector.

2.REPLACE LIFTING MOTOR (FRONT)
Replace lifting motor [rear (built in seat cushion frame)]. Refer to SE-74, "SEAT CUSHION : Disassembly and Assembly".

Is the DTC detected?

YES >> Refer to GI-56, "Intermittent Incident".
NO >> INSPECTION END

PASSENGER SIDE

PASSENGER SIDE : DTC Description

INFOID:0000000013612852

DTC DETECTION LOGIC

DTC		CONSULT screen terms		DTC detecting condition	
		(Trouble diagnosis content)	[Malfunction type]		
B1D70	31	Seat lifting motor (rear) pos sensor (Seat lifting motor (rear) position sensor)	NO SIGNAL	Diagnosis	When lifting motor (rear) operate
				Signal (terminal)	Lifting sensor (rear) signal
				Threshold	Lifting sensor (rear) circuit malfunction
				Diagnosis delay time	1 second or less

POSSIBLE CAUSE

- Harness or connectors
  (Lifting sensor (rear) circuit is open or shorted)
- Lifting motor (rear)

FAIL-SAFE

Only manual functions operate normally.

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Operate seat lifting (rear) for up and down.
3. Check DTC in “Self Diagnostic Result” mode of “Passenger seat control unit” using CONSULT.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-51, "PASSENGER SIDE : Diagnosis Procedure".
NO–1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO–2 >> Confirmation after repair: INSPECTION END.

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000013612853

1.CHECK LIFTING MOTOR (REAR) CIRCUIT

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

Lifting motor (rear)		Passenger seat control unit		Continuity
Connector	Terminal	Connector	Terminal	
M610	2	M703	83	Existed
	4		90	

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connector.

2.REPLACE LIFTING MOTOR (REAR)

Replace lifting motor [rear (built in seat cushion frame)]. Refer to SE-74, "SEAT CUSHION : Disassembly and Assembly".

Is the DTC detected?

YES >> Refer to GI-56, "Intermittent Incident".
NO >> INSPECTION END

B1D74 LIFTING SENSOR (FRONT)
DRIVER SIDE
DRIVER SIDE : DTC Description

INFOID:0000000013612854

DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	CONSULT screen terms [Malfunction type]	DTC detecting condition	
B1D74	31	Seat lifting motor (front) pos sensor (Seat lifting motor (front) position sensor)	NO SIGNAL	Diagnosis	When lifting motor (front) operate
				Signal (terminal)	Lifting sensor (front) signal
				Threshold	Lifting sensor (front) circuit malfunction
				Diagnosis delay time	1 second or less

POSSIBLE CAUSE
- Harness or connectors
  (Lifting sensor (front) circuit is open or shorted)
- Lifting motor (front)

FAIL-SAFE
Only manual functions operate normally.

DTC CONFIRMATION PROCEDURE
1.PERFORM DTC CONFIRMATION PROCEDURE
1. Turn ignition switch ON.
2. Operate seat lifting (front) for up and down.
3. Check DTC in “Self Diagnostic Result” mode of “AUTO DRIVE POS.” using CONSULT.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-52, "DRIVER SIDE : Diagnosis Procedure".
NO–1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO–2 >> Confirmation after repair: INSPECTION END.

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000013612855

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

Lifting motor (front)		Driver seat control unit		Continuity
Connector	Terminal	Connector	Terminal	
M682	2	M705	90	Existed
	4		82	

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connector.

2.REPLACE LIFTING MOTOR (FRONT)
Replace lifting motor [front (built in seat cushion frame)]. Refer to SE-74, "SEAT CUSHION : Disassembly and Assembly".

Is the DTC detected?

YES >> Refer to GI-56, "Intermittent Incident".
NO >> INSPECTION END

PASSENGER SIDE

PASSENGER SIDE : DTC Description

INFOID:0000000013612856

DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	CONSULT screen terms [Malfunction type]	DTC detecting condition	
B1D74	31	Seat lifting motor (front) pos sensor (Seat lifting motor (front) position sensor)	NO SIGNAL	Diagnosis	When lifting motor (front) operate
				Signal (terminal)	Lifting sensor (front) signal
				Threshold	Lifting sensor (front) circuit malfunction
				Diagnosis delay time	1 second or less

POSSIBLE CAUSE

- Harness or connectors
  (Lifting sensor (front) circuit is open or shorted)
- Lifting motor (front)

FAIL-SAFE

Only manual functions operate normally.

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Operate seat lifting (front) for up and down.
3. Check DTC in “Self Diagnostic Result” mode of “Passenger seat control unit” using CONSULT.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-53, "PASSENGER SIDE : Diagnosis Procedure".
NO–1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO–2 >> Confirmation after repair: INSPECTION END.

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000013612857

1.CHECK LIFTING MOTOR (FRONT) CIRCUIT

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

Lifting motor (front)		Passenger seat control unit		Continuity
Connector	Terminal	Connector	Terminal	
M611	2	M703	90	Existed
	4		82	

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connector.

2.REPLACE LIFTING MOTOR (FRONT)

Replace lifting motor [front (built in seat cushion frame)]. Refer to SE-74, "SEAT CUSHION : Disassembly and Assembly".

Is the DTC detected?

YES >> Refer to GI-56, "Intermittent Incident".
NO >> INSPECTION END

B1D78 RECLINING SENSOR

DRIVER SIDE

DRIVER SIDE : DTC Description

INFOID:0000000013612858

DTC DETECTION LOGIC

DTC		CONSULT screen terms		DTC detecting condition	
		(Trouble diagnosis content)	[Malfunction type]		
B1D78	31	Seat reclining motor position sensor (Seat reclining motor position sensor)	NO SIGNAL	Diagnosis	When reclining motor operate
				Signal (terminal)	Reclining sensor signal
				Threshold	Reclining sensor circuit malfunction
				Diagnosis delay time	1 second or less

POSSIBLE CAUSE

- Harness or connectors
  (Reclining sensor circuit is open or shorted)
- Reclining motor

FAIL-SAFE

Only manual functions operate normally.

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Operate seat reclining for forward and backward.
3. Check DTC in “Self Diagnostic Result” mode of “AUTO DRIVE POS.” using CONSULT.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-54, "DRIVER SIDE : Diagnosis Procedure".
NO–1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO–2 >> Confirmation after repair: INSPECTION END.

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000013612859

1.CHECK RECLINING MOTOR CIRCUIT

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

Reclining motor		Driver seat control unit		Continuity
Connector	Terminal	Connector	Terminal	
M680	2	M704	55	Existed
	4		51	

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connector.

2.REPLACE RECLINING MOTOR

Replace reclining motor (built in seatback frame). Refer to SE-67, "SEATBACK : Disassembly and Assembly".

Is the DTC detected?

YES >> Refer to GI-56, "Intermittent Incident".
NO >> INSPECTION END

PASSENGER SIDE

PASSENGER SIDE : DTC Description

INFOID:0000000013612860

DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	CONSULT screen terms [Malfunction type]	DTC detecting condition	
B1D78	31	Seat reclining motor position sensor (Seat reclining motor position sensor)	NO SIGNAL	Diagnosis	When reclining motor operate
				Signal (terminal)	Reclining sensor signal
				Threshold	Reclining sensor circuit malfunction
				Diagnosis delay time	1 second or less

POSSIBLE CAUSE

- Harness or connectors
  (Reclining sensor circuit is open or shorted)
- Reclining motor

FAIL-SAFE

Only manual functions operate normally.

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Operate seat reclining for forward and backward.
3. Check DTC in “Self Diagnostic Result” mode of “Passenger seat control unit” using CONSULT.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-55, "PASSENGER SIDE : Diagnosis Procedure".
NO–1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO–2 >> Confirmation after repair: INSPECTION END.

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000013612861

1.CHECK RECLINING MOTOR CIRCUIT

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

Reclining motor		Passenger seat control unit		Continuity
Connector	Terminal	Connector	Terminal	
M683	2	M702	55	Existed
	4		51	

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness or connector.

2.REPLACE RECLINING MOTOR

Replace reclining motor (built in seatback frame). Refer to SE-67, "SEATBACK : Disassembly and Assembly".

Is the DTC detected?

YES >> Refer to GI-56, "Intermittent Incident".
NO >> INSPECTION END

B1D9B SLIDING MOTOR

DRIVER SIDE

DRIVER SIDE : DTC Description

INFOID:0000000013612862

DTC DETECTION LOGIC

DTC		CONSULT screen terms		DTC detecting condition	
		(Trouble diagnosis content)	[Malfunction type]		
B1D9B	54	Seat sliding adjustment (Seat sliding adjustment)	MISSING CALIBRATION	Diagnosis	Turn ignition switch ON
				Signal (terminal)	—
				Threshold	The normalization is unsuccessful
				Diagnosis delay time	1 second or less

POSSIBLE CAUSE

Driver seat control unit

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check DTC in “Self Diagnostic Result” mode of “AUTO DRIVE POS.” using CONSULT.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-56, "DRIVER SIDE : Diagnosis Procedure".
NO–1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO–2 >> Confirmation after repair: INSPECTION END.

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000013612863

1.PERFORM NORMALIZATION

Select “NORMALIZATION” in “WORK SUPPORT” with CONSULT.
Refer to ADP-46, "Description".

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace driver seat control unit. Refer to ADP-113, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE : DTC Description

INFOID:0000000013612864

DTC DETECTION LOGIC

DTC		CONSULT screen terms		DTC detecting condition	
		(Trouble diagnosis content)	[Malfunction type]		
B1D9B	54	Seat sliding adjustment (Seat sliding adjustment)	MISSING CALIBRATION	Diagnosis	Turn ignition switch ON
				Signal (terminal)	—
				Threshold	The normalization is unsuccessful
				Diagnosis delay time	1 second or less

POSSIBLE CAUSE

Passenger seat control unit

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check DTC in “Self Diagnostic Result” mode of “Passenger seat control unit” using CONSULT.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-57, "PASSENGER SIDE : Diagnosis Procedure".
NO–1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO–2 >> Confirmation after repair: INSPECTION END.

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000013612865

1.PERFORM NORMALIZATION

Select “NORMALIZATION” in “WORK SUPPORT” with CONSULT.
Refer to ADP-46, "Description".

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace passenger seat control unit. Refer to ADP-113, "Removal and Installation".

B1DAA LIFTING MOTOR (FRONT)

DRIVER SIDE

DRIVER SIDE : DTC Description

INFOID:0000000013612866

DTC DETECTION LOGIC

DTC		CONSULT screen terms		DTC detecting condition	
		(Trouble diagnosis content)	[Malfunction type]		
B1DAA	54	Seat lifting (front) adjustment (Seat lifting (front) adjustment)	MISSING CALIBRATION	Diagnosis	Turn ignition switch ON
				Signal (terminal)	—
				Threshold	The normalization is unsuccessful
				Diagnosis delay time	1 second or less

POSSIBLE CAUSE

Driver seat control unit

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check DTC in “Self Diagnostic Result” mode of “AUTO DRIVE POS.” using CONSULT.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-58, "DRIVER SIDE : Diagnosis Procedure".
NO–1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO–2 >> Confirmation after repair: INSPECTION END.

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000013612867

1.PERFORM NORMALIZATION

Select “NORMALIZATION” in “WORK SUPPORT” with CONSULT.
Refer to ADP-46, "Description".

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace driver seat control unit. Refer to ADP-113, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE : DTC Description

INFOID:0000000013612868

DTC DETECTION LOGIC

DTC		CONSULT screen terms		DTC detecting condition	
		(Trouble diagnosis content)	[Malfunction type]		
B1DAA	54	Seat lifting (front) adjustment (Seat lifting (front) adjustment)	MISSING CALIBRATION	Diagnosis	Turn ignition switch ON
				Signal (terminal)	—
				Threshold	The normalization is unsuccessful
				Diagnosis delay time	1 second or less

POSSIBLE CAUSE

Passenger seat control unit

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check DTC in “Self Diagnostic Result” mode of “Passenger seat control unit” using CONSULT.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-59, "PASSENGER SIDE : Diagnosis Procedure".
NO–1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO–2 >> Confirmation after repair: INSPECTION END.

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000013612869

1.PERFORM NORMALIZATION

Select “NORMALIZATION” in “WORK SUPPORT” with CONSULT.
Refer to ADP-46, "Description".

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace passenger seat control unit. Refer to ADP-113, "Removal and Installation".

B1DAC RECLINING MOTOR

DRIVER SIDE

DRIVER SIDE : DTC Description

INFOID:0000000013612870

DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	CONSULT screen terms [Malfunction type]	DTC detecting condition	
B1DAC	54	Seat reclining adjustment (Seat reclining adjustment)	MISSING CALIBRATION	Diagnosis	Turn ignition switch ON
				Signal (terminal)	—
				Threshold	The normalization is unsuccessful
				Diagnosis delay time	1 second or less

POSSIBLE CAUSE

Driver seat control unit

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check DTC in “Self Diagnostic Result” mode of “AUTO DRIVE POS.” using CONSULT.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-60, "DRIVER SIDE : Diagnosis Procedure".
NO–1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO–2 >> Confirmation after repair: INSPECTION END.

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000013612871

1.PERFORM NORMALIZATION

Select “NORMALIZATION” in “WORK SUPPORT” with CONSULT.
Refer to ADP-46, "Description".

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace driver seat control unit. Refer to ADP-113, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE : DTC Description

INFOID:0000000013612872

DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	CONSULT screen terms [Malfunction type]	DTC detecting condition	
B1DAC	54	Seat reclining adjustment (Seat reclining adjustment)	MISSING CALIBRATION	Diagnosis	Turn ignition switch ON
				Signal (terminal)	—
				Threshold	The normalization is unsuccessful
				Diagnosis delay time	1 second or less

POSSIBLE CAUSE

Passenger seat control unit

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check DTC in “Self Diagnostic Result” mode of “Passenger seat control unit” using CONSULT.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-61, "PASSENGER SIDE : Diagnosis Procedure".
NO–1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO–2 >> Confirmation after repair: INSPECTION END.

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000013612873

1.PERFORM NORMALIZATION

Select “NORMALIZATION” in “WORK SUPPORT” with CONSULT.
Refer to ADP-46, "Description".

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace passenger seat control unit. Refer to ADP-113, "Removal and Installation".

B1E04 LIFTING MOTOR (REAR)

DRIVER SIDE

DRIVER SIDE : DTC Description

INFOID:0000000013612874

DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	CONSULT screen terms [Malfunction type]	DTC detecting condition	
B1E04	54	Seat lifting (rear) adjustment (Seat lifting (rear) adjustment)	MISSING CALIBRATION	Diagnosis	Turn ignition switch ON
				Signal (terminal)	—
				Threshold	The normalization is unsuccessful
				Diagnosis delay time	1 second or less

POSSIBLE CAUSE

Driver seat control unit

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check DTC in “Self Diagnostic Result” mode of “AUTO DRIVE POS.” using CONSULT.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-62, "DRIVER SIDE : Diagnosis Procedure".
NO–1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO–2 >> Confirmation after repair: INSPECTION END.

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000013612875

1.PERFORM NORMALIZATION

Select “NORMALIZATION” in “WORK SUPPORT” with CONSULT.
Refer to ADP-46, "Description".

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace driver seat control unit. Refer to ADP-113, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE : DTC Description

INFOID:0000000013612876

DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	CONSULT screen terms [Malfunction type]	DTC detecting condition	
B1E04	54	Seat lifting (rear) adjustment (Seat lifting (rear) adjustment)	MISSING CALIBRATION	Diagnosis	Turn ignition switch ON
				Signal (terminal)	—
				Threshold	The normalization is unsuccessful
				Diagnosis delay time	1 second or less

POSSIBLE CAUSE

Passenger seat control unit

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check DTC in “Self Diagnostic Result” mode of “Passenger seat control unit” using CONSULT.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-63, "PASSENGER SIDE : Diagnosis Procedure".
NO–1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO–2 >> Confirmation after repair: INSPECTION END.

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000013612877

1.PERFORM NORMALIZATION

Select “NORMALIZATION” in “WORK SUPPORT” with CONSULT.
Refer to ADP-46, "Description".

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace passenger seat control unit. Refer to ADP-113, "Removal and Installation".

B210D SEAT CONTROL UNIT
DRIVER SIDE

DRIVER SIDE : DTC Description

INFOID:0000000013612878

DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	CONSULT screen terms [Malfunction type]	DTC detecting condition	
B210D	16	Power supply (Power supply)	CIRC VOLT BELOW THRESHOLD	Diagnosis	Turn ignition switch ON
				Signal (terminal)	Battery power supply
				Threshold	Driver seat control unit detect battery voltage too low
				Diagnosis delay time	15 second or more

POSSIBLE CAUSE
Harness or connectors
(Battery power supply circuit is open or shorted)

FAIL-SAFE
—

DTC CONFIRMATION PROCEDURE
1.PERFORM DTC CONFIRMATION PROCEDURE
1. Turn ignition switch ON, and wait 15 second or more.
2. Check DTC in “Self Diagnostic Result” mode of “AUTO DRIVE POS.” using CONSULT.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-64, "DRIVER SIDE : Diagnosis Procedure".
NO–1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO–2 >> Confirmation after repair: INSPECTION END.

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000013612879

1.CHECK FUSE
1. Turn ignition switch OFF.
2. Check that the following fuse and fusible link are not blown (open).

Signal name	Fuse or fusible link No.
Battery power supply	60 (30 A)
	36 (7.5 A)

Is the fuse or fusible link blown (open)?

YES >> Replace the blown (open) fusible link after repairing the affected circuit if a fusible link is blown (open).
NO >> GO TO 2.

2.CHECK POWER SUPPLY
Check voltage between driver seat control unit harness connector and ground.

(+) Driver seat control unit		(-)	Voltage
Connector	Terminal		
M615	3	Ground	11 – 15.5 V
	18		

Is the inspection result normal?

YES >> GO TO 5.
NO >> GO TO 3.

3.CHECK POWER SUPPLY CIRCUIT

1. Disconnect driver seat control unit and fuse and fusible link block 2 connector.
2. Check continuity between driver seat control unit harness connector and fuse and fusible link block 2 harness connector.

Fuse and fusible link block 2		Driver seat control unit		Continuity
Connector	Terminal	Connector	Terminal	
M111	53	M615	3	Existed
M126	32		18	

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

Driver seat control unit		Ground	Continuity
Connector	Terminal		
M615	3		Not existed
	18		

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace harness or connector.

4.CHECK GROUND CIRCUIT

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

Driver seat control unit		Ground	Continuity
Connector	Terminal		
M615	4		Existed

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness or connector.

5.CHECK INTERMITTENT INCIDENT

Refer to GI-56, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE

PASSENGER SIDE : DTC Description

INFOID:0000000013612880

DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	CONSULT screen terms [Malfunction type]	DTC detecting condition	
B210D	16	Power supply (Power supply)	CIRC VOLT BELOW THRESHOLD	Diagnosis	Turn ignition switch ON
				Signal (terminal)	Battery power supply
				Threshold	Passenger seat control unit detect battery voltage too low
				Diagnosis delay time	15 second or more

POSSIBLE CAUSE

Harness or connectors
(Battery power supply circuit is open or shorted)

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON, and wait 15 second or more.
2. Check DTC in “Self Diagnostic Result” mode of “Passenger seat control unit” using CONSULT.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-66, "PASSENGER SIDE : Diagnosis Procedure".
NO–1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO–2 >> Confirmation after repair: INSPECTION END.

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000013612881

1.CHECK FUSE

1. Turn ignition switch OFF.
2. Check that the following fuse and fusible link are not blown (open).

Signal name	Fuse or fusible link No.
Battery power supply	59 (30 A)
	46 (7.5 A)

Is the fuse or fusible link blown (open)?

YES >> Replace the blown (open) fusible link after repairing the affected circuit if a fusible link is blown (open).
NO >> GO TO 2.

2.CHECK POWER SUPPLY

Check voltage between passenger seat control unit harness connector and ground.

(+)		(-)	Voltage
Passenger seat control unit			
Connector	Terminal		
M618	3	Ground	11 – 15.5 V
	18		

Is the inspection result normal?

YES >> GO TO 5.
NO >> GO TO 3.

3.CHECK POWER SUPPLY CIRCUIT

1. Disconnect passenger seat control unit and fuse and fusible link block 2 connector.
2. Check continuity between passenger seat control unit harness connector and fuse and fusible link block 2 harness connector.

Fuse and fusible link block 2		Passenger seat control unit		Continuity
Connector	Terminal	Connector	Terminal	
M112	39	M618	3	Existed
M116	43		18	

3. Check continuity between passenger seat control unit harness connector and ground.

Passenger seat control unit		Ground	Continuity
Connector	Terminal		
M618	3		Not existed
	18		

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace harness or connector.

4. CHECK GROUND CIRCUIT

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

Passenger seat control unit		Ground	Continuity
Connector	Terminal		
M618	4		Existed

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness or connector.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-56, "Intermittent Incident".

>> INSPECTION END

B210E SEAT CONTROL UNIT
DRIVER SIDE

DRIVER SIDE : DTC Description

INFOID:0000000013612882

DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	CONSULT screen terms [Malfunction type]	DTC detecting condition	
B210E	17	Power supply (Power supply)	CIRC VOLT ABOVE THRESHOLD	Diagnosis	Turn ignition switch ON
				Signal (terminal)	Battery power supply
				Threshold	Driver seat control unit detect battery voltage too high
				Diagnosis delay time	15 second or more

POSSIBLE CAUSE
Harness or connectors
(Battery power supply circuit is open or shorted)

FAIL-SAFE
—

DTC CONFIRMATION PROCEDURE
1.PERFORM DTC CONFIRMATION PROCEDURE
1. Turn ignition switch ON, and wait 15 second or more.
2. Check DTC in “Self Diagnostic Result” mode of “AUTO DRIVE POS.” using CONSULT.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-68, "DRIVER SIDE : Diagnosis Procedure".
NO–1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO–2 >> Confirmation after repair: INSPECTION END.

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000013612883

1.CHECK FUSE
1. Turn ignition switch OFF.
2. Check that the following fuse and fusible link are not blown (open).

Signal name	Fuse or fusible link No.
Battery power supply	60 (30 A)
	36 (7.5 A)

Is the fuse or fusible link blown (open)?

YES >> Replace the blown (open) fusible link after repairing the affected circuit if a fusible link is blown (open).
NO >> GO TO 2.

2.CHECK POWER SUPPLY
Check voltage between driver seat control unit harness connector and ground.

(+)		(-)	Voltage
Driver seat control unit			
Connector	Terminal		
M615	3	Ground	11 – 15.5 V
	18		

Is the inspection result normal?

YES >> GO TO 5.
NO >> GO TO 3.

3.CHECK POWER SUPPLY CIRCUIT

1. Disconnect driver seat control unit and fuse and fusible link block connector.
2. Check continuity between driver seat control unit harness connector and fuse and fusible link block.

Fuse and fusible link block		Driver seat control unit		Continuity
Connector	Terminal	Connector	Terminal	
M111	53	M615	3	Existed
M126	32		18	

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

Driver seat control unit		Ground	Continuity
Connector	Terminal		
M615	3		Not existed
	18		

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace harness or connector.

4.CHECK GROUND CIRCUIT

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

Driver seat control unit		Ground	Continuity
Connector	Terminal		
M615	4		Existed

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness or connector.

5.CHECK INTERMITTENT INCIDENT

Refer to GI-56, "Intermittent Incident".

>> INSPECTION END

PASSENGER SIDE

PASSENGER SIDE : DTC Description

INFOID:0000000013612884

DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	CONSULT screen terms [Malfunction type]	DTC detecting condition	
B210E	17	Power supply (Power supply)	CIRC VOLT ABOVE THRESHOLD	Diagnosis	Turn ignition switch ON
				Signal (terminal)	Battery power supply
				Threshold	Passenger seat control unit detect battery voltage too high
				Diagnosis delay time	15 second or more

POSSIBLE CAUSE

Harness or connectors

(Battery power supply circuit is open or shorted)

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON, and wait 15 second or more.
2. Check DTC in “Self Diagnostic Result” mode of “Passenger seat control unit” using CONSULT.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-70, "PASSENGER SIDE : Diagnosis Procedure".
NO–1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO–2 >> Confirmation after repair: INSPECTION END.

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000013612885

1.CHECK FUSE

1. Turn ignition switch OFF.
2. Check that the following fuse and fusible link are not blown (open).

Signal name	Fuse or fusible link No.
Battery power supply	59 (30 A)
	46 (7.5 A)

Is the fuse or fusible link blown (open)?

YES >> Replace the blown (open) fusible link after repairing the affected circuit if a fusible link is blown (open).
NO >> GO TO 2.

2.CHECK POWER SUPPLY

Check voltage between passenger seat control unit harness connector and ground.

(+)		(-)	Voltage
Passenger seat control unit			
Connector	Terminal		
M618	3	Ground	11 – 15.5 V
	18		

Is the inspection result normal?

YES >> GO TO 5.
NO >> GO TO 3.

3.CHECK POWER SUPPLY CIRCUIT

1. Disconnect passenger seat control unit and fuse and fusible link block 2 connector.
2. Check continuity between passenger seat control unit harness connector and fuse and fusible link block 2 harness.

Fuse and fusible link block		Passenger seat control unit		Continuity
Connector	Terminal	Connector	Terminal	
M112	39	M618	3	Existed
M116	43		18	

3. Check continuity between passenger seat control unit harness connector and ground.

Passenger seat control unit		Ground	Continuity
Connector	Terminal		
M618	3		Not existed
	18		

Is the inspection result normal?

YES >> GO TO 4.
NO >> Repair or replace harness or connector.

4. CHECK GROUND CIRCUIT

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

Passenger seat control unit		Ground	Continuity
Connector	Terminal		
M618	4		Existed

Is the inspection result normal?

YES >> GO TO 5.
NO >> Repair or replace harness or connector.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-56, "Intermittent Incident".

>> INSPECTION END

B221C SEAT CONTROL UNIT

DRIVER SIDE

DRIVER SIDE : DTC Description

INFOID:0000000013612886

DTC DETECTION LOGIC

DTC		CONSULT screen terms		DTC detecting condition	
		(Trouble diagnosis content)	[Malfunction type]		
B221C	96	Driver seat control unit (Driver seat control unit)	CMPNENT INTERNAL MLFNCTN	Diagnosis	Turn ignition switch ON
				Signal (terminal)	—
				Threshold	Driver seat control unit internal malfunction
				Diagnosis delay time	1 second or less

POSSIBLE CAUSE

Driver seat control unit

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON and wait for 1 second or more.
2. Check DTC in “Self Diagnostic Result” mode of “AUTO DRIVE POS.” using CONSULT.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-72, "DRIVER SIDE : Diagnosis Procedure".
NO–1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO–2 >> Confirmation after repair: INSPECTION END.

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000013612887

1.REPLACE DRIVER SEAT CONTROL UNIT

Replace driver seat control unit. Refer to ADP-113, "Removal and Installation".

Is the DTC detected?

YES >> Refer to GI-56, "Intermittent Incident".
NO >> INSPECTION END

PASSENGER SIDE

PASSENGER SIDE : DTC Description

INFOID:0000000013612888

DTC DETECTION LOGIC

DTC		CONSULT screen terms		DTC detecting condition	
		(Trouble diagnosis content)	[Malfunction type]		
B221C	96	Driver seat control unit (Driver seat control unit)	CMPNENT INTERNAL MLFNCTN	Diagnosis	Turn ignition switch ON
				Signal (terminal)	—
				Threshold	Passenger seat control unit internal malfunction
				Diagnosis delay time	1 second or less

POSSIBLE CAUSE

Passenger seat control unit

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON and wait for 1 second or more.
2. Check DTC in “Self Diagnostic Result” mode of “Passenger seat control unit” using CONSULT.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-73, "PASSENGER SIDE : Diagnosis Procedure".
NO–1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO–2 >> Confirmation after repair: INSPECTION END.

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000013612889

1.REPLACE PASSENGER SEAT CONTROL UNIT

Replace passenger seat control unit. Refer to ADP-113, "Removal and Installation".

Is the DTC detected?

YES >> Refer to GI-56, "Intermittent Incident".
NO >> INSPECTION END

B25AA SLIDING MOTOR
DRIVER SIDE
DRIVER SIDE : DTC Description

INFOID:0000000013612890

DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	CONSULT screen terms [Malfunction type]	DTC detecting condition	
B25AA	13	Seat sliding motor (Seat sliding motor)	CIRC OPEN	Diagnosis	When seat sliding operate
				Signal (terminal)	Sliding motor power supply
				Threshold	The driver seat control unit cannot detect sliding motor signal
				Diagnosis delay time	1 second or less

POSSIBLE CAUSE
- Driver seat control unit
- Harness or connectors
  (Sliding motor circuit is open or shorted)

FAIL-SAFE
Only manual functions operate normally

DTC CONFIRMATION PROCEDURE
1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Operate seat sliding forward and downward.
3. Check DTC in “Self Diagnostic Result” mode of “AUTO DRIVE POS.” using CONSULT.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-74, "DRIVER SIDE : Diagnosis Procedure".
NO–1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO–2 >> Confirmation after repair: INSPECTION END.

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000013612891

1.CHECK FUNCTION

1. Select “CRT SEAT FORE/AFT ADJUST” in “DATA MONIRTOR” with CONSULT.
2. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
CRT SEAT FORE/AFT ADJUST	Seat slide (driver side)	Forward	The numeral value decreases
		Backward	The numeral value increases

Is the inspection result normal?

YES >> Refer to GI-56, "Intermittent Incident".
NO >> GO TO 2.

2.CHECK SLIDING MOTOR POWER SUPPLY

1. Turn ignition switch OFF.
2. Disconnect driver seat control unit connector.
3. Check voltage between driver seat control unit terminal and ground.

(+)		(-)	Condition		Voltage
Driver seat control unit					
Connector	Terminal				
M705	63	Ground	Seat slide (driver side)	Forward	11 – 15.5 V
	69			Backward	

Is the inspection result normal?

YES >> GO TO 3.
NO >> Replace driver seat control unit. Refer to ADP-113, "Removal and Installation".

3.CHECK SLIDING MOTOR POWER SUPPLY CIRCUIT

1. Disconnect sliding motor connector.
2. Check continuity between driver seat control unit harness connector and sliding motor harness connector.

Driver seat control unit		Sliding motor		Continuity
Connector	Terminal	Connector	Terminal	
M705	63	M604	1	Existed
	69		3	

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

Driver seat control unit		Ground	Continuity
Connector	Terminal		
M705	63		Not existed
	69		

Is the inspection result normal?

YES >> Refer to GI-56, "Intermittent Incident".
NO >> Repair or replace harness or connector.

PASSENGER SIDE

PASSENGER SIDE : DTC Description

INFOID:0000000013612892

DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	CONSULT screen terms [Malfunction type]	DTC detecting condition	
B25AA	13	Seat sliding motor (Seat sliding motor)	CIRC OPEN	Diagnosis	When seat sliding operate
				Signal (terminal)	Sliding motor power supply
				Threshold	The passenger seat control unit cannot detect sliding motor signal
				Diagnosis delay time	1 second or less

POSSIBLE CAUSE

- Passenger seat control unit
- Harness or connectors
  (Sliding motor circuit is open or shorted)

FAIL-SAFE

Only manual functions operate normally

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.

2. Operate seat sliding forward and downward.
3. Check DTC in “Self Diagnostic Result” mode of “Passenger seat control unit” using CONSULT.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-76, "PASSENGER SIDE : Diagnosis Procedure".
NO–1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO–2 >> Confirmation after repair: INSPECTION END.

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000013612893

1.CHECK FUNCTION

1. Select “CRT SEAT FORE/AFT ADJUST” in “DATA MONIRTOR” with CONSULT.
2. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
CRT SEAT FORE/AFT ADJUST	Seat slide (passenger side)	Forward	The numeral value decreases
		Backward	The numeral value increases

Is the inspection result normal?

YES >> Refer to GI-56, "Intermittent Incident".
NO >> GO TO 2.

2.CHECK SLIDING MOTOR POWER SUPPLY

1. Turn ignition switch OFF.
2. Disconnect passenger seat control unit connector.
3. Check voltage between passenger seat control unit terminal and ground.

(+)		(-)	Condition		Voltage
Passenger seat control unit					
Connector	Terminal				
M703	63	Ground	Seat slide (passenger side)	Forward	11 – 15.5 V
	69			Backward	

Is the inspection result normal?

YES >> GO TO 3.
NO >> Replace passenger seat control unit. Refer to ADP-113, "Removal and Installation".

3.CHECK SLIDING MOTOR POWER SUPPLY CIRCUIT

1. Disconnect sliding motor connector.
2. Check continuity between passenger seat control unit harness connector and sliding motor harness connector.

Passenger seat control unit		Sliding motor		Continuity
Connector	Terminal	Connector	Terminal	
M703	63	M609	1	Existed
	69		3	

3. Check continuity between passenger seat control unit harness connector and ground.

Passenger seat control unit		Ground	Continuity
Connector	Terminal		
M703	63		Not existed
	69		

Is the inspection result normal?

YES >> Refer to GI-56, "Intermittent Incident".
NO >> Repair or replace harness or connector.

B25AB LIFTING MOTOR (FRONT)
DRIVER SIDE

DRIVER SIDE : DTC Description

INFOID:0000000013612894

DTC DETECTION LOGIC

DTC No.		CONSULT screen terms (Trouble diagnosis content)	CONSULT screen terms [Malfunction type]	DTC detecting condition	
B25AB	13	Seat lifting motor (front) [Seat lifting motor (front)]	CIRC OPEN	Diagnosis	When seat lifting (front) operate
				Signal (terminal)	Lifting motor (front) power supply
				Threshold	The driver seat control unit cannot detect lifting motor (front) signal
				Diagnosis delay time	1 second or less

POSSIBLE CAUSE
- Driver seat control unit
- Harness or connectors
  (Lifting motor (front) circuit is open or shorted)

FAIL-SAFE
Only manual functions operate normally

DTC CONFIRMATION PROCEDURE
1.PERFORM DTC CONFIRMATION PROCEDURE
1. Turn ignition switch ON.
2. Operate seat lifting for up and down.
3. Check DTC in “Self Diagnostic Result” mode of “AUTO DRIVE POS.” using CONSULT.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-77, "DRIVER SIDE : Diagnosis Procedure".
NO–1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO–2 >> Confirmation after repair: INSPECTION END.

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000013612895

1.CHECK FUNCTION
1. Select “CRT SEAT HEIGHT ADJUST” in “DATA MONIRTOR” with CONSULT.
2. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
CRT SEAT HEIGHT ADJUST	Lifting motor (front)	Upward	The numeral value decreases
		Downward	The numeral value increases

Is the inspection result normal?

YES >> Refer to GI-56, "Intermittent Incident".
NO >> GO TO 2.

2.CHECK LIFTING MOTOR (FRONT) POWER SUPPLY
1. Turn ignition switch OFF.
2. Disconnect driver seat control unit connector.
3. Check voltage between driver seat control unit terminal and ground.

(+)		(-)	Condition		Voltage
Driver seat control unit					
Connector	Terminal				
M705	68	Ground	Lifting motor (front)	Downward	11 – 15.5 V
	70			Upward	

Is the inspection result normal?

YES >> GO TO 3.
NO >> Replace driver seat control unit. Refer to ADP-113, "Removal and Installation".

3.CHECK LIFTING MOTOR (FRONT) POWER SUPPLY CIRCUIT

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

Driver seat control unit		Lifting motor (front)		Continuity
Connector	Terminal	Connector	Terminal	
M705	68	M682	1	Existed
	70		3	

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

Driver seat control unit		Ground	Continuity
Connector	Terminal		
M705	68		Not existed
	70		

Is the inspection result normal?

YES >> Refer to GI-56, "Intermittent Incident".
NO >> Repair or replace harness or connector.

PASSENGER SIDE

PASSENGER SIDE : DTC Description

INFOID:0000000013612896

DTC DETECTION LOGIC

DTC No.		CONSULT screen terms (Trouble diagnosis content)	CONSULT screen terms [Malfunction type]	DTC detecting condition	
B25AB	13	Seat lifting motor (front) [Seat lifting motor (front)]	CIRC OPEN	Diagnosis	When seat lifting (front) operate
				Signal (terminal)	Lifting motor (front) power supply
				Threshold	The passenger seat control unit cannot detect lifting motor (front) signal
				Diagnosis delay time	1 second or less

POSSIBLE CAUSE

- Passenger seat control unit
- Harness or connectors
  (Lifting motor (front) circuit is open or shorted)

FAIL-SAFE

Only manual functions operate normally

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Operate seat lifting (front) for up and down.
3. Check DTC in “Self Diagnostic Result” mode of “Passenger seat control unit” using CONSULT.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-79, "PASSENGER SIDE : Diagnosis Procedure".
NO–1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO–2 >> Confirmation after repair: INSPECTION END.

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000013612897

1.CHECK FUNCTION

1. Select “CRT SEAT HEIGHT ADJUST” in “DATA MONIRTOR” with CONSULT.
2. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
CRT SEAT HEIGHT ADJUST	Seat lifting (passenger side)	Upward	The numeral value decreases
		Downward	The numeral value increases

Is the inspection result normal?

YES >> Refer to GI-56, "Intermittent Incident".
NO >> GO TO 2.

2.CHECK LIFTING MOTOR (FRONT) POWER SUPPLY

1. Turn ignition switch OFF.
2. Disconnect passenger seat control unit connector.
3. Check voltage between passenger seat control unit terminal and ground.

(+)		(-)	Condition		Voltage
Passenger seat control unit					
Connector	Terminal				
M703	68	Ground	Seat lifting (passenger side)	Downward	11 – 15.5 V
	70			Upward	

Is the inspection result normal?

YES >> GO TO 3.
NO >> Replace passenger seat control unit. Refer to ADP-113, "Removal and Installation".

3.CHECK LIFTING MOTOR (FRONT) POWER SUPPLY CIRCUIT

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

Passenger seat control unit		Lifting motor (front)		Continuity
Connector	Terminal	Connector	Terminal	
M703	68	M611	1	Existed
	70		3	

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

Passenger seat control unit		Ground	Continuity
Connector	Terminal		
M703	68		Not existed
	70		

Is the inspection result normal?

YES >> Refer to GI-56, "Intermittent Incident".

NO >> Repair or replace harness or connector.

B25AD RECLINING MOTOR
DRIVER SIDE

DRIVER SIDE : DTC Description

INFOID:0000000013612898

DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	CONSULT screen terms [Malfunction type]	DTC detecting condition	
B25AD	13	Seat reclining motor (Seat reclining motor)	CIRC OPEN	Diagnosis	When seat reclining operate
				Signal (terminal)	Reclining motor power supply
				Threshold	The driver seat control unit cannot detect reclining motor signal
				Diagnosis delay time	1 second or less

POSSIBLE CAUSE
- Driver seat control unit
- Harness or connectors
  (Reclining motor circuit is open or shorted)

FAIL-SAFE
Only manual functions operate normally

DTC CONFIRMATION PROCEDURE
1.PERFORM DTC CONFIRMATION PROCEDURE
1. Turn ignition switch ON.
2. Operate seat reclining forward and backward.
3. Check DTC in “Self Diagnostic Result” mode of “AUTO DRIVE POS.” using CONSULT.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-81, "DRIVER SIDE : Diagnosis Procedure".
NO–1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO–2 >> Confirmation after repair: INSPECTION END.

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000013612899

1.CHECK FUNCTION
1. Select “CRT BACKREST ADJUST” in “DATA MONIRTOR” with CONSULT.
2. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
CRT BACKREST ADJUST	Seat reclining (driver side)	Forward	The numeral value decreases
		Backward	The numeral value increases

Is the inspection result normal?

YES >> Refer to GI-56, "Intermittent Incident".
NO >> GO TO 2.

2.CHECK RECLINIG MOTOR POWER SUPPLY
1. Turn ignition switch OFF.
2. Disconnect driver seat control unit connector.
3. Check voltage between driver seat control unit terminal and ground.

(+)		(-)	Condition		Voltage
Driver seat control unit					
Connector	Terminal				
M704	34	Ground	Seat reclining (driver side)	Backward	11 – 15.5 V
	38			Forward	

Is the inspection result normal?

YES >> GO TO 3.
NO >> Replace driver seat control unit. Refer to ADP-113, "Removal and Installation".

3.CHECK RECLINING MOTOR POWER SUPPLY CIRCUIT

1. Disconnect reclining motor connector.
2. Check continuity between driver seat control unit harness connector and reclining motor harness connector.

Driver seat control unit		Reclining motor		Continuity
Connector	Terminal	Connector	Terminal	
M704	34	M680	1	Existed
	38		3	

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

Driver seat control unit		Ground	Continuity
Connector	Terminal		
M704	34		Not existed
	38		

Is the inspection result normal?

YES >> Refer to GI-56, "Intermittent Incident".
NO >> Repair or replace harness or connector.

PASSENGER SIDE

PASSENGER SIDE : DTC Description

INFOID:0000000013612900

DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	CONSULT screen terms [Malfunction type]	DTC detecting condition	
B25AD	13	Seat reclining motor (Seat reclining motor)	CIRC OPEN	Diagnosis	When seat reclining operate
				Signal (terminal)	Reclining motor power supply
				Threshold	The passenger seat control unit cannot detect reclining motor signal
				Diagnosis delay time	1 second or less

POSSIBLE CAUSE

- Passenger seat control unit
- Harness or connectors
  (Reclining motor circuit is open or shorted)

FAIL-SAFE

Only manual functions operate normally

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Operate seat reclining forward and backward.
3. Check DTC in “Self Diagnostic Result” mode of “Passenger seat control unit” using CONSULT.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-83, "PASSENGER SIDE : Diagnosis Procedure".
NO–1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO–2 >> Confirmation after repair: INSPECTION END.

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000013612901

1.CHECK FUNCTION

1. Select “CRT BACKREST ADJUST” in “DATA MONIRTOR” with CONSULT.
2. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
CRT BACKREST ADJUST	Seat reclining (passenger side)	Forward	The numeral value decreases
		Backward	The numeral value increases

Is the inspection result normal?

YES >> Refer to GI-56, "Intermittent Incident".
NO >> GO TO 2.

2.CHECK RECLINING MOTOR POWER SUPPLY

1. Turn ignition switch OFF.
2. Disconnect passenger seat control unit connector.
3. Check voltage between passenger seat control unit terminal and ground.

(+)		(-)	Condition		Voltage
Passenger seat control unit					
Connector	Terminal				
M702	34	Ground	Seat reclining (passenger side)	Backward	11 – 15.5 V
	38			Forward	

Is the inspection result normal?

YES >> GO TO 3.
NO >> Replace passenger seat control unit. Refer to ADP-113, "Removal and Installation".

3.CHECK RECLINING MOTOR POWER SUPPLY CIRCUIT

1. Disconnect reclining motor connector.
2. Check continuity between passenger seat control unit harness connector and reclining motor harness connector.

Passenger seat control unit		Reclining motor		Continuity
Connector	Terminal	Connector	Terminal	
M702	34	M683	1	Existed
	38		3	

3. Check continuity between passenger seat control unit harness connector and ground.

Passenger seat control unit		Ground	Continuity
Connector	Terminal		
M702	34		Not existed
	38		

Is the inspection result normal?

YES >> Refer to GI-56, "Intermittent Incident".
NO >> Repair or replace harness or connector.

B25AE LIFTING MOTOR (REAR)
DRIVER SIDE
DRIVER SIDE : DTC Description

INFOID:0000000013612902

DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	CONSULT screen terms [Malfunction type]	DTC detecting condition	
B25AE	13	Seat lifting motor (rear) [Seat lifting motor (rear)]	CIRC OPEN	Diagnosis	When seat lifting (rear) operate
				Signal (terminal)	Lifting motor (rear) power supply
				Threshold	The driver seat control unit cannot detect lifting motor (rear) signal
				Diagnosis delay time	1 second or less

POSSIBLE CAUSE
- Driver seat control unit
- Harness or connectors
  (Lifting motor (rear) circuit is open or shorted)

FAIL-SAFE
Only manual functions operate normally

DTC CONFIRMATION PROCEDURE
1.PERFORM DTC CONFIRMATION PROCEDURE
1. Turn ignition switch ON.
2. Operate seat lifting up and down.
3. Check DTC in “Self Diagnostic Result” mode of “AUTO DRIVE POS.” using CONSULT.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-84, "DRIVER SIDE : Diagnosis Procedure".
NO–1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO–2 >> Confirmation after repair: INSPECTION END.

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000013612903

1.CHECK FUNCTION
1. Select “CRT SEAT INCLINATION ADJ” in “DATA MONIRTOR” with CONSULT.
2. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
CRT SEAT INCLINATION ADJ	Lifting motor (rear)	Upward	The numeral value decreases
		Downward	The numeral value increases

Is the inspection result normal?

YES >> Refer to GI-56, "Intermittent Incident".
NO >> GO TO 2.

2.CHECK LIFTING MOTOR (REAR) POWER SUPPLY
1. Turn ignition switch OFF.
2. Disconnect driver seat control unit connector.
3. Check voltage between driver seat control unit terminal and ground.

(+)		(-)	Condition		Voltage
Driver seat control unit					
Connector	Terminal				
M705	64	Ground	Lifting motor (rear)	Downward	11 – 15.5 V
	71			Upward	

Is the inspection result normal?

YES >> GO TO 3.
NO >> Replace Driver seat control unit. Refer to ADP-113, "Removal and Installation".

3.CHECK LIFTING MOTOR (REAR) POWER SUPPLY CIRCUIT

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

Driver seat control unit		Lifting motor (rear)		Continuity
Connector	Terminal	Connector	Terminal	
M705	64	M681	3	Existed
	71		1	

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

Driver seat control unit		Ground	Continuity
Connector	Terminal		
M705	64		Not existed
	71		

Is the inspection result normal?

YES >> Refer to GI-56, "Intermittent Incident".
NO >> Repair or replace harness or connector.

PASSENGER SIDE

PASSENGER SIDE : DTC Description

INFOID:0000000013612904

DTC DETECTION LOGIC

DTC No.		CONSULT screen terms (Trouble diagnosis content)	CONSULT screen terms [Malfunction type]	DTC detecting condition	
B25AE	13	Seat lifting motor (rear) [Seat lifting motor (rear)]	CIRC OPEN	Diagnosis	When seat lifting (rear) operate
				Signal (terminal)	Lifting motor (rear) power supply
				Threshold	The passenger seat control unit cannot detect lifting motor (rear) signal
				Diagnosis delay time	1 second or less

POSSIBLE CAUSE

- Passenger seat control unit
- Harness or connectors
  (Lifting motor (rear) circuit is open or shorted)

FAIL-SAFE

Only manual functions operate normally

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Operate seat lifting up and down.
3. Check DTC in “Self Diagnostic Result” mode of “Passenger seat control unit” using CONSULT.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-86, "PASSENGER SIDE : Diagnosis Procedure".
NO–1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO–2 >> Confirmation after repair: INSPECTION END.

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000013612905

1.CHECK FUNCTION

1. Select “CRT SEAT INCLINATION ADJ” in “DATA MONIRTOR” with CONSULT.
2. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
CRT SEAT INCLINATION ADJ	Seat lifting (passenger side)	Upward	The numeral value decreases
		Downward	The numeral value increases

Is the inspection result normal?

YES >> Refer to GI-56, "Intermittent Incident".
NO >> GO TO 2.

2.CHECK LIFTING MOTOR (REAR) POWER SUPPLY

1. Turn ignition switch OFF.
2. Disconnect passenger seat control unit connector.
3. Check voltage between passenger seat control unit terminal and ground.

(+)		(-)	Condition		Voltage
Passenger seat control unit					
Connector	Terminal				
M703	64	Ground	Seat lifting (passenger side)	Downward	11 – 15.5 V
	71			Upward	

Is the inspection result normal?

YES >> GO TO 3.
NO >> Replace passenger seat control unit. Refer to ADP-113, "Removal and Installation".

3.CHECK LIFTING MOTOR (REAR) POWER SUPPLY CIRCUIT

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

Passenger seat control unit		Lifting motor (rear)		Continuity
Connector	Terminal	Connector	Terminal	
M703	64	M610	3	Existed
	71		1	

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

Passenger seat control unit		Ground	Continuity
Connector	Terminal		
M703	64		Not existed
	71		

Is the inspection result normal?

YES >> Refer to GI-56, "Intermittent Incident".

NO >> Repair or replace harness or connector.

B1D5E FRONT SEAT SWITCH

LH

LH : DTC Description

INFOID:0000000013612906

DTC DETECTION LOGIC

DTC		CONSULT screen terms		DTC detecting condition	
		(Trouble diagnosis content)	[Malfunction type]		
B1D5E	2A	Switch “Seat adjustment” has a malfunction (Switch “Seat adjustment” has a malfunction)	SIGNAL STUCK IN RANGE	Diagnosis	Turn ignition switch ON
				Signal (terminal)	Left front seat switch signal
				Threshold	The left front door control unit cannot detect seat switch signal
				Diagnosis delay time	50 second or more

POSSIBLE CAUSE

Left front seat adjustment switch group

FAIL-SAFE

Seat adjustment cannot be activate the left front seat adjustment switch group.

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON and wait for 50 second.
2. Check DTC in “Self Diagnostic Result” mode of “Left front door control unit” using CONSULT.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-88, "LH : Diagnosis Procedure".
NO–1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO–2 >> Confirmation after repair: INSPECTION END.

LH : Diagnosis Procedure

INFOID:0000000013612907

1.CHECK LEFT SEAT ADJUST SWITCH GROUP CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect left front seat adjustment switch group connector and left front door control unit connector.
3. Check continuity between left front seat adjustment switch group harness connector and left front door control unit harness connector.

Left front seat adjustment switch group		Left front door control unit		Continuity
Connector	Terminal	Connector	Terminal	
D44	1	D17	56	Existed
	2		57	
	3		58	

Is the inspection result normal?

YES >> Replace left front seat adjustment switch group. Refer to ADP-114, "Removal and Installation".
NO >> Repair or replace harness or connector.

RH

RH : DTC Description

INFOID:0000000013612908

DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	CONSULT screen terms [Malfunction type]	DTC detecting condition	
B1D5E	2A	Switch “Seat adjustment” has a malfunction (Switch “Seat adjustment” has a malfunction)	SIGNAL STUCK IN RANGE	Diagnosis	Turn ignition switch ON
				Signal (terminal)	Right front seat switch signal
				Threshold	The right front door control unit cannot detect seat switch signal
				Diagnosis delay time	50 second or more

POSSIBLE CAUSE

Right front seat adjustment switch group

FAIL-SAFE

Seat adjustment cannot be activate the right front seat adjustment switch group.

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON and wait for 50 second.
2. Check DTC in “Self Diagnostic Result” mode of “Right front door control unit” using CONSULT.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-89, "RH : Diagnosis Procedure".
NO–1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO–2 >> Confirmation after repair: INSPECTION END.

RH : Diagnosis Procedure

INFOID:0000000013612909

1.CHECK RIGHT SEAT ADJUST SWITCH GROUP CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect right front seat adjustment switch group connector and right front door control unit connector.
3. Check continuity between right front seat adjustment switch group harness connector and right front door control unit harness connector.

Right front seat adjust switch group		Right front door control unit		Continuity
Connector	Terminal	Connector	Terminal	
D95	1	D60	56	Existed
	2		57	
	3		58	

Is the inspection result normal?

YES >> Replace right front seat adjustment switch group. Refer to ADP-114, "Removal and Installation".
NO >> Repair or replace harness or connector.

U1137 LIN COMMUNICATION

LH

LH : DTC Description

INFOID:0000000013612910

DTC DETECTION LOGIC

DTC No.		CONSULT screen terms		DTC detecting condition	
		(Trouble diagnosis content)	[Malfunction type]		
U1137	00	Communication with switch group “Seat adjustment” has a malfunction (Communication with switch group “Seat adjustment” has a malfunction)	NO SUBTYPE INFO	Diagnosis	CAN communication active
				Signal (terminal)	—
				Threshold	LIN communication with the power window main switch and left front seat adjustment switch group has a malfunction
				Diagnosis delay time	—

POSSIBLE CAUSE

- Harness or connectors
  (LIN communication circuit is open or shorted)
- Left front door control unit
- Power window main switch
- Front seat adjustment switch group

FAIL-SAFE

Only manual function operate normally

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check DTC in “Self Diagnostic Result” mode of “Left front door control unit” using CONSULT.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-90, "LH : Diagnosis Procedure".
NO–1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO–2 >> Confirmation after repair: INSPECTION END.

LH : Diagnosis Procedure

INFOID:0000000013612911

1.CHECK LIN COMMUNICATION CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect left front door control unit, power window main switch and left front seat adjustment switch group connector.
3. Check continuity between left front door control unit harness connector and power window main switch harness connector.

Left front door control unit		Power window main switch		Continuity
Connector	Terminal	Connector	Terminal	
D16	41	D38	1	Not existed

4. Check continuity between left front door control unit harness connector and left front seat adjustment switch group harness connector.

Left front door control unit		Left front seat adjustment switch group		Continuity
Connector	Terminal	Connector	Terminal	
D17	56	D44	1	Not existed

5. Check voltage between left front door control unit harness connector and ground.

(+)		(–)	Voltage (Approx.)
Left front door control unit			
Connector	Terminal		
D16	41	Ground	0 V
D17	56		

6. Check continuity between left front door control unit harness connector and ground.

Left front door control unit		Ground	Continuity
Connector	Terminal		
D16	41		Not existed
D17	56		

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness.

2.ERASE DTC

1. Connect left front door control unit, power window main switch and left front seat adjustment switch group connector.
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “Left front door control unit” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to ADP-90, "LH : DTC Description".

Is DTC “U1137-00” detected?

YES >> GO TO 3.
NO >> INSPECTION END

3.REPLACE LEFT FRONT SEAT ADJUSTMENT SWITCH GROUP AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace left front seat adjustment switch group. Refer to ADP-114, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “Left front door control unit” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to ADP-90, "LH : DTC Description".

Is DTC “U1137-00” detected?

YES >> GO TO 4.
NO >> INSPECTION END

4.REPLACE POWER WINDOW MAIN SWITCH AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace power window main switch. Refer to PWC-89, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “Left front door control unit” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to ADP-90, "LH : DTC Description".

Is DTC “U1137-00” detected?

YES >> Replace left front door control unit. Refer to DLK-286, "Removal and Installation".
NO >> INSPECTION END

RH

RH : DTC Description

INFOID:0000000013612912

DTC DETECTION LOGIC

DTC No.		CONSULT screen terms (Trouble diagnosis content)	CONSULT screen terms [Malfunction type]	DTC detecting condition	
U1137	00	Communication with switch group “Seat adjustment” has a malfunction (Communication with switch group “Seat adjustment” has a malfunction)	NO SUBTYPE INFO	Diagnosis	CAN communication: active
				Signal (terminal)	—
				Threshold	LIN communication with the power window main switch and right front seat adjustment switch group has a malfunction
				Diagnosis delay time	—

POSSIBLE CAUSE

- Harness or connectors
  (LIN communication circuit is open or shorted)
- Right front door control unit
- Front power window switch
- Right front seat adjustment switch group

FAIL-SAFE

Only manual function operate normally

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check DTC in “Self Diagnostic Result” mode of “Right front door control unit” using CONSULT.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-92, "RH : Diagnosis Procedure".
NO–1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO–2 >> Confirmation after repair: INSPECTION END.

RH : Diagnosis Procedure

INFOID:0000000013612913

1.CHECK LIN COMMUNICATION CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect right front door control unit, power window main switch and right front seat adjustment switch group connector.
3. Check continuity between right front door control unit harness connector and power window main switch harness connector.

Right front door control unit		Power window main switch		Continuity
Connector	Terminal	Connector	Terminal	
D66	41	D88	1	Not existed

4. Check continuity between right front door control unit harness connector and right front seat adjustment switch group harness connector.

Right front door control unit		Right front seat adjustment switch group		Continuity
Connector	Terminal	Connector	Terminal	
D60	56	D95	1	Not existed

5. Check voltage between right front door control unit harness connector and ground.

(+)		(–)	Voltage (Approx.)
Right front door control unit			
Connector	Terminal		
D60	56	Ground	0 V

6. Check continuity between right front door control unit harness connector and ground.

Right front door control unit		Ground	Continuity
Connector	Terminal		
D60	56		Not existed

Is the inspection result normal?

YES >> GO TO 2.
NO >> Repair or replace harness.

2.ERASE DTC

1. Connect right front door control unit, power window main switch and right front seat adjustment switch group connector.
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “Right front door control unit” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to ADP-91, "RH : DTC Description".

Is DTC “U1137-00” detected?

YES >> GO TO 3.
NO >> INSPECTION END

3.REPLACE RIGHT FRONT SEAT ADJUSTMENT SWITCH GROUP AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace right front seat adjustment switch group. Refer to ADP-114, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “Right front door control unit” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to ADP-91, "RH : DTC Description".

Is DTC “U1137-00” detected?

YES >> GO TO 4.
NO >> INSPECTION END

4.REPLACE POWER WINDOW MAIN SWITCH AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace power window main switch. Refer to PWC-89, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “Right front door control unit” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to ADP-91, "RH : DTC Description".

Is DTC “U1137-00” detected?

YES >> Replace right front door control unit. Refer to DLK-286, "Removal and Installation".
NO >> INSPECTION END

B2286 SEAT CONTROL UNIT

DTC Description

INFOID:0000000013612914

DTC DETECTION LOGIC

DTC		CONSULT screen terms		DTC detecting condition	
		(Trouble diagnosis content)	[Malfunction type]		
B2286	78	Calibration (Calibration)	ALIGNMENT OR ADJUSTMENT INCORRECT	Diagnosis	Turn ignition switch ON
				Signal (terminal)	—
				Threshold	The normalization is unsuccessful
				Diagnosis delay time	1 second or less

POSSIBLE CAUSE

Driver seat control unit not/wrong normalization

FAIL-SAFE

Only manual functions operate normally.

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check DTC in “Self Diagnostic Result” mode of “AUTO DRIVE POS.” using CONSULT.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-94, "Diagnosis Procedure".
NO–1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO–2 >> Confirmation after repair: INSPECTION END.

Diagnosis Procedure

INFOID:0000000013612915

1.PERFORM NORMALIZATION

Select “NORMALIZATION” in “WORK SUPPORT” with CONSULT.
Refer to ADP-46, "Description".

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace driver seat control unit. Refer to ADP-113, "Removal and Installation".

B2287 SEAT CONTROL UNIT

DTC Description

INFOID:0000000013612916

DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	CONSULT screen terms [Malfunction type]	DTC detecting condition	
B2287	66	Calibration (Calibration)	SIGNAL HAS TOO MANY TRANSITIONS/EVENTS	Diagnosis	Turn ignition switch ON
				Signal (terminal)	—
				Threshold	The normalization is unsuccessful
				Diagnosis delay time	1 second or less

POSSIBLE CAUSE

Driver seat control unit not/wrong normalization

FAIL-SAFE

Only manual function operate normally.

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check DTC in “Self Diagnostic Result” mode of “AUTO DRIVE POS.” using CONSULT.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-95, "Diagnosis Procedure".
NO–1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO–2 >> Confirmation after repair: INSPECTION END.

Diagnosis Procedure

INFOID:0000000013612917

1.PERFORM NORMALIZATION

Select “NORMALIZATION” in “WORK SUPPORT” with CONSULT.
Refer to ADP-46, "Description".

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace driver seat control unit. Refer to ADP-113, "Removal and Installation".

B1EAE SEAT CONTROL UNIT

DRIVER SIDE

DRIVER SIDE : DTC Description

INFOID:0000000013612918

DTC DETECTION LOGIC

DTC		CONSULT screen terms		DTC detecting condition	
		(Trouble diagnosis content)	[Malfunction type]		
B1EAE	78	Seat sliding adjustment (Seat sliding adjustment)	ALIGNMENT OR ADJUSTMENT INCORRECT	Diagnosis	Turn ignition switch ON
				Signal (terminal)	—
				Threshold	The normalization is unsuccessful
				Diagnosis delay time	1 second or less

POSSIBLE CAUSE

Driver seat control unit

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check DTC in “Self Diagnostic Result” mode of “AUTO DRIVE POS.” using CONSULT.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-96, "DRIVER SIDE : Diagnosis Procedure".
NO–1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO–2 >> Confirmation after repair: INSPECTION END.

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000013612919

1.PERFORM NORMALIZATION

Select “NORMALIZATION” in “WORK SUPPORT” with CONSULT.
Refer to ADP-46, "Description".

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace driver seat control unit. Refer to ADP-113, "Removal and Installation".

PASSENGER SIDE

PASSENGER SIDE : DTC Description

INFOID:0000000013612920

DTC DETECTION LOGIC

DTC		CONSULT screen terms		DTC detecting condition	
		(Trouble diagnosis content)	[Malfunction type]		
B1EAE	78	Seat sliding adjustment (Seat sliding adjustment)	ALIGNMENT OR ADJUSTMENT INCORRECT	Diagnosis	Turn ignition switch ON
				Signal (terminal)	—
				Threshold	The normalization is unsuccessful
				Diagnosis delay time	1 second or less

POSSIBLE CAUSE

Passenger seat control unit

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check DTC in “Self Diagnostic Result” mode of “Passenger seat control unit” using CONSULT.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-97, "PASSENGER SIDE : Diagnosis Procedure".
NO–1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO–2 >> Confirmation after repair: INSPECTION END.

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000013612921

1.PERFORM NORMALIZATION

Select “NORMALIZATION” in “WORK SUPPORT” with CONSULT.
Refer to ADP-46, "Description".

Is the inspection result normal?

YES >> INSPECTION END
NO >> Replace passenger seat control unit. Refer to ADP-113, "Removal and Installation".

U0155 CAN COMMUNICATION
DRIVER SIDE

DRIVER SIDE : DTC Description

INFOID:0000000013612922

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
U0155	87	COMMUNICATION ERROR (LOST) [Communication error (lost)]	MISSING MESSAGE	Diagnosis condition	CAN communication: active
				Signal (terminal)	—
				Threshold	Driver seat control unit does not transmit signal on the CAN communication.
				Diagnosis delay time	—

POSSIBLE CAUSE
- CAN communication
- Driver seat control unit
- Combination meter

FAIL-SAFE
–

DTC CONFIRMATION PROCEDURE
1.PERFORM DTC CONFIRMATION PROCEDURE
1. Turn ignition switch ON.
2. Check DTC in “Self Diagnostic Result” mode of “AUTO DRIVE POS.” using CONSULT.

Is DTC detected?

YES >> Refer to ADP-98, "DRIVER SIDE : Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000013612923

1.CHECK DTC WITH COMBINATION METER
Check that DTC is not detected with combination meter.

Is the inspection result normal?

YES >> GO TO 2.
NO >> Refer to MWI-85, "DTC Index".

2.CHECK CAN COMMUNICATION SYSTEM DIAGNOSIS
Perform the trouble diagnosis for CAN communication system. Refer to LAN-58, "Trouble Diagnosis Flow Chart".

Is the inspection result normal?

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

3.REPLACE COMBINATION METER AND ERASE DTC
1. Turn ignition switch OFF.
2. Replace combination meter. Refer to MWI-155, "Removal and Installation".
3. Turn ignition switch ON.
4. Check DTC in “Self Diagnostic Result” mode of “AUTO DRIVE POS.” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to ADP-98, "DRIVER SIDE : DTC Description".

Is DTC “U0155-87” detected?

YES >> Replace driver seat control unit. Refer to ADP-113, "Removal and Installation".
NO >> INSPECTION END

PASSENGER SIDE

PASSENGER SIDE : DTC Description

INFOID:0000000013612924

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
U0155	87	COMMUNICATION ERROR (LOST) [Communication error (lost)]	MISSING MESSAGE	Diagnosis condition	CAN communication: active
				Signal (terminal)	—
				Threshold	Passenger seat control unit does not transmit signal on the CAN communication.
				Diagnosis delay time	—

POSSIBLE CAUSE

- CAN communication
- Passenger seat control unit
- Combination meter

FAIL-SAFE

–

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “Passenger seat control unit” using CONSULT.

Is DTC detected?

YES >> Refer to ADP-99, "PASSENGER SIDE : Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000013612925

1.CHECK DTC WITH COMBINATION METER

Check that DTC is not detected with combination meter.

Is the inspection result normal?

YES >> GO TO 2.
NO >> Refer to MWI-85, "DTC Index".

2.CHECK CAN COMMUNICATION SYSTEM DIAGNOSIS

Perform the trouble diagnosis for CAN communication system. Refer to LAN-58, "Trouble Diagnosis Flow Chart".

Is the inspection result normal?

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

3.REPLACE COMBINATION METER AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace combination meter. Refer to MWI-155, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “Passenger seat control unit” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to ADP-99, "PASSENGER SIDE : DTC Description".

Is DTC “U0155-87” detected?

YES >> Replace passenger seat control unit. Refer to ADP-113, "Removal and Installation".
NO >> INSPECTION END

U0168 CAN COMMUNICATION
DRIVER SIDE

DRIVER SIDE : DTC Description

INFOID:0000000013612926

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
U0168	87	COMMUNICATION ERROR (LOST) [Communication error (lost)]	MISSING MESSAGE	Diagnosis condition	CAN communication: active
				Signal (terminal)	—
				Threshold	Driver seat control unit does not transmit signal on the CAN communication.
				Diagnosis delay time	—

POSSIBLE CAUSE
- CAN communication
- Driver seat control unit
- Electronic ignition switch control unit

FAIL-SAFE
–

DTC CONFIRMATION PROCEDURE
1.PERFORM DTC CONFIRMATION PROCEDURE
1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “AUTO DRIVE POS.” using CONSULT.

Is DTC detected?

YES >> Refer to ADP-101, "DRIVER SIDE : Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000013612927

1.CHECK DTC WITH ELECTRONIC IGNITION SWITCH CONTROL UNIT
Check that DTC is not detected with electronic ignition switch control unit.

Is the inspection result normal?

YES >> GO TO 2.
NO >> Refer to PCS-12, "DTC Index".

2.CHECK CAN COMMUNICATION SYSTEM DIAGNOSIS
Perform the trouble diagnosis for CAN communication system. Refer to LAN-58, "Trouble Diagnosis Flow Chart".

Is the inspection result normal?

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

3.REPLACE ELECTRONIC IGNITION SWITCH CONTROL UNIT AND ERASE DTC
1. Turn ignition switch OFF.
2. Replace electronic ignition switch control unit. Refer to PCS-47, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “AUTO DRIVE POS.” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to ADP-101, "DRIVER SIDE : DTC Description".

Is DTC “U0168-87” detected?

YES >> Replace driver seat control unit. Refer to ADP-113, "Removal and Installation".
NO >> INSPECTION END

PASSENGER SIDE

PASSENGER SIDE : DTC Description

INFOID:0000000013612928

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
U0168	87	COMMUNICATION ERROR (LOST) [Communication error (lost)]	MISSING MESSAGE	Diagnosis condition	CAN communication: active
				Signal (terminal)	—
				Threshold	Passenger seat control unit does not transmit signal on the CAN communication.
				Diagnosis delay time	—

POSSIBLE CAUSE

- CAN communication
- Passenger seat control unit
- Electronic ignition switch control unit

FAIL-SAFE

–

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “Passenger seat control unit” using CONSULT.

Is DTC detected?

YES >> Refer to ADP-102, "PASSENGER SIDE : Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000013612929

1.CHECK DTC WITH ELECTRONIC IGNITION SWITCH CONTROL UNIT

Check that DTC is not detected with electronic ignition switch control unit.

Is the inspection result normal?

YES >> GO TO 2.
NO >> Refer to PCS-12, "DTC Index".

2.CHECK CAN COMMUNICATION SYSTEM DIAGNOSIS

Perform the trouble diagnosis for CAN communication system. Refer to LAN-58, "Trouble Diagnosis Flow Chart".

Is the inspection result normal?

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

3.REPLACE ELECTRONIC IGNITION SWITCH CONTROL UNIT AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace electronic ignition switch control unit. Refer to PCS-47, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “Passenger seat control unit” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to ADP-102, "PASSENGER SIDE : DTC Description".

Is DTC “U0168-87” detected?

YES >> Replace passenger seat control unit. Refer to ADP-113, "Removal and Installation".
NO >> INSPECTION END

U112F CAN COMMUNICATION
DRIVER SIDE

DRIVER SIDE : DTC Description

INFOID:0000000013612930

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
U112F	87	Communication error (Communication error)	MISSING MESSAGE	Diagnosis condition	CAN communication: active
				Signal (terminal)	—
				Threshold	Driver seat control unit does not transmit signal on the CAN communication.
				Diagnosis delay time	—

POSSIBLE CAUSE
- CAN communication
- Driver seat control unit
- Front door control unit

FAIL-SAFE
–

DTC CONFIRMATION PROCEDURE
1.PERFORM DTC CONFIRMATION PROCEDURE
1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “AUTO DRIVE POS.” using CONSULT.

Is DTC detected?

YES >> Refer to ADP-104, "DRIVER SIDE : Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000013612931

1.CHECK DTC WITH FRONT DOOR CONTROL UNIT
Check that DTC is not detected with front door control unit.

Is the inspection result normal?

YES >> GO TO 2.
NO >> Refer to DLK-60, "DTC Index".

2.CHECK CAN COMMUNICATION SYSTEM DIAGNOSIS
Perform the trouble diagnosis for CAN communication system. Refer to LAN-58, "Trouble Diagnosis Flow Chart".

Is the inspection result normal?

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

3.REPLACE FRONT DOOR CONTROL UNIT AND ERASE DTC
1. Turn ignition switch OFF.
2. Replace front door control unit. Refer to DLK-286, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “AUTO DRIVE POS.” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to ADP-104, "DRIVER SIDE : DTC Description".

Is DTC “U112F-87” detected?

YES >> Replace driver seat control unit. Refer to ADP-113, "Removal and Installation".
NO >> INSPECTION END

PASSENGER SIDE

PASSENGER SIDE : DTC Description

INFOID:0000000013612932

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
U112F	87	Communication error (Communication error)	MISSING MESSAGE	Diagnosis condition	CAN communication: active
				Signal (terminal)	—
				Threshold	Passenger seat control unit does not transmit signal on the CAN communication.
				Diagnosis delay time	—

POSSIBLE CAUSE

- CAN communication
- Passenger seat control unit
- Front door control unit

FAIL-SAFE

–

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “Passenger seat control unit” using CONSULT.

Is DTC detected?

YES >> Refer to ADP-105, "PASSENGER SIDE : Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000013612933

1.CHECK DTC WITH FRONT DOOR CONTROL UNIT

Check that DTC is not detected with front door control unit.

Is the inspection result normal?

YES >> GO TO 2.
NO >> Refer to DLK-70, "DTC Index".

2.CHECK CAN COMMUNICATION SYSTEM DIAGNOSIS

Perform the trouble diagnosis for CAN communication system. Refer to LAN-58, "Trouble Diagnosis Flow Chart".

Is the inspection result normal?

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

3.REPLACE FRONT DOOR CONTROL UNIT AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace front door control unit. Refer to DLK-286, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “Passenger seat control unit” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to ADP-105, "PASSENGER SIDE : DTC Description".

Is DTC “U112F-87” detected?

YES >> Replace passenger seat control unit. Refer to ADP-113, "Removal and Installation".
NO >> INSPECTION END

U141D CAN COMMUNICATION
DRIVER SIDE

DRIVER SIDE : DTC Description

INFOID:0000000013612934

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
U141D	64	Communication error (Communication error)	SIGNAL PLAUSIBILITY FAILURE	Diagnosis condition	CAN communication: active
				Signal (terminal)	—
				Threshold	Driver seat control unit does not transmit signal on the CAN communication.
				Diagnosis delay time	—

POSSIBLE CAUSE
- CAN communication
- Driver seat control unit
- Front door control unit

FAIL-SAFE
–

DTC CONFIRMATION PROCEDURE
1.PERFORM DTC CONFIRMATION PROCEDURE
1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “AUTO DRIVE POS.” using CONSULT.

Is DTC detected?

YES >> Refer to ADP-107, "DRIVER SIDE : Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000013612935

1.CHECK DTC WITH FRONT DOOR CONTROL UNIT
Check that DTC is not detected with front door control unit.

Is the inspection result normal?

YES >> GO TO 2.
NO >> Refer to DLK-60, "DTC Index".

2.CHECK CAN COMMUNICATION SYSTEM DIAGNOSIS
Perform the trouble diagnosis for CAN communication system. Refer to LAN-58, "Trouble Diagnosis Flow Chart".

Is the inspection result normal?

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

3.REPLACE FRONT DOOR CONTROL UNIT AND ERASE DTC
1. Turn ignition switch OFF.
2. Replace front door control unit. Refer to DLK-286, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “AUTO DRIVE POS.” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to ADP-107, "DRIVER SIDE : DTC Description".

Is DTC “U141D-64” detected?

YES >> Replace driver seat control unit. Refer to ADP-113, "Removal and Installation".
NO >> INSPECTION END

PASSENGER SIDE

PASSENGER SIDE : DTC Description

INFOID:0000000013612936

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
U141D	64	Communication error (Communication error)	SIGNAL PLAUSIBILITY FAILURE	Diagnosis condition	CAN communication: active
				Signal (terminal)	—
				Threshold	Passenger seat control unit does not transmit signal on the CAN communication.
				Diagnosis delay time	—

POSSIBLE CAUSE

- CAN communication
- Passenger seat control unit
- Front door control unit

FAIL-SAFE

–

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “Passenger seat control unit” using CONSULT.

Is DTC detected?

YES >> Refer to ADP-108, "PASSENGER SIDE : Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000013612937

1.CHECK DTC WITH FRONT DOOR CONTROL UNIT

Check that DTC is not detected with front door control unit.

Is the inspection result normal?

YES >> GO TO 2.
NO >> Refer to DLK-70, "DTC Index".

2.CHECK CAN COMMUNICATION SYSTEM DIAGNOSIS

Perform the trouble diagnosis for CAN communication system. Refer to LAN-58, "Trouble Diagnosis Flow Chart".

Is the inspection result normal?

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

3.REPLACE FRONT DOOR CONTROL UNIT AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace front door control unit. Refer to DLK-286, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “Passenger seat control unit” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to ADP-108, "PASSENGER SIDE : DTC Description".

Is DTC “U141D-64” detected?

YES >> Replace passenger seat control unit. Refer to ADP-113, "Removal and Installation".
NO >> INSPECTION END

U0210 SEAT CONTROL UNIT

LH

LH : DTC Description

INFOID:0000000013612938

DTC DETECTION LOGIC

DTC		CONSULT screen terms		DTC detecting condition	
		(Trouble diagnosis content)	[Malfunction type]		
U0210	87	Communication with control unit “Driver seat” has a malfunction (Communication with control unit “Driver seat” has a malfunction)	MISSING MESSAGE	Diagnosis	CAN communication: active
				Signal (terminal)	—
				Threshold	Left front door control unit does not transmit signal on the CAN communication.
				Diagnosis delay time	—

POSSIBLE CAUSE

- CAN communication
- Driver seat control unit
- Left front door control unit

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check DTC in “Self Diagnostic Result” mode of “Left front door control unit” using CONSULT.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-110, "LH : Diagnosis Procedure".
NO–1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO–2 >> Confirmation after repair: INSPECTION END.

LH : Diagnosis Procedure

INFOID:0000000013612939

1.CHECK DTC WITH LEFT FRONT DOOR CONTROL UNIT

Check that DTC is not detected with left front door control unit.

Is the inspection result normal?

YES >> GO TO 2.
NO >> Refer to DLK-60, "DTC Index".

2.CHECK CAN COMMUNICATION SYSTEM DIAGNOSIS

Perform the trouble diagnosis for CAN communication system. Refer to LAN-58, "Trouble Diagnosis Flow Chart".

Is the inspection result normal?

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

3.REPLACE LEFT FRONT DOOR CONTROL UNIT AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace left front door control unit. Refer to DLK-286, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “AUTO DRIVE POS.” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to ADP-110, "LH : DTC Description".

Is DTC “U0210-87” detected?

YES >> Replace driver seat control unit. Refer to ADP-113, "Removal and Installation".
NO >> INSPECTION END

RH

RH : DTC Description

INFOID:0000000013612940

DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	CONSULT screen terms [Malfunction type]	DTC detecting condition	
U0210	87	Communication with control unit “Driver seat” has a malfunction (Communication with control unit “Driver seat” has a malfunction)	MISSING MESSAGE	Diagnosis	CAN communication: active
				Signal (terminal)	—
				Threshold	Right front door control unit does not transmit signal on the CAN communication.
				Diagnosis delay time	—

POSSIBLE CAUSE

- CAN communication
- Passenger seat control unit
- Right front door control unit

FAIL-SAFE

–

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check DTC in “Self Diagnostic Result” mode of “Right front door control unit” using CONSULT.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-111, "RH : Diagnosis Procedure".
NO–1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO–2 >> Confirmation after repair: INSPECTION END.

RH : Diagnosis Procedure

INFOID:0000000013612941

1.CHECK DTC WITH RIGHT FRONT DOOR CONTROL UNIT

Check that DTC is not detected with right front door control unit.

Is the inspection result normal?

YES >> GO TO 2.
NO >> Refer to DLK-70, "DTC Index".

2.CHECK CAN COMMUNICATION SYSTEM DIAGNOSIS

Perform the trouble diagnosis for CAN communication system. Refer to LAN-58, "Trouble Diagnosis Flow Chart".

Is the inspection result normal?

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

3.REPLACE RIGHT FRONT DOOR CONTROL UNIT AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace front door control unit. Refer to DLK-286, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “Passenger seat control unit” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to ADP-111, "RH : DTC Description".

Is DTC “U0210-87” detected?

YES >> Replace passenger seat control unit. Refer to ADP-113, "Removal and Installation".
NO >> INSPECTION END

REMOVAL AND INSTALLATION

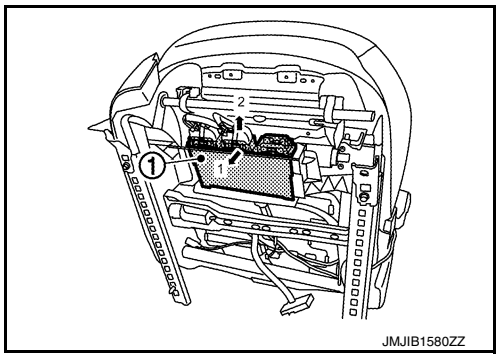
SEAT CONTROL UNIT

Removal and Installation

INFOID:0000000013612942

REMOVAL

1. Remove front seat. Refer to SE-66, "Removal and Installation".
2. Disconnect seat control unit connector.
3. Pull up seat control unit ① according to the numerical order 1→2 as shown in the figure.



INSTALLATION

Install in the reverse order of removal.

NOTE:

After installing the front seat, perform additional service when replacing seat control unit. Refer to ADP-43, "DRIVER SIDE : Description" (driver side) or ADP-43, "PASSENGER SIDE : Description" (passenger side).

FRONT SEAT ADJUSTMENT SWITCH GROUP

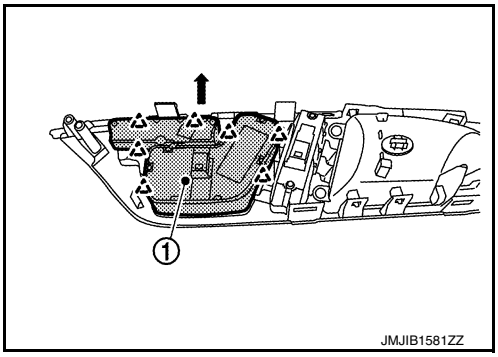
Removal and Installation

INFOID:0000000013612943

REMOVAL

1. Remove front door finisher. Refer to INT-14, "Removal and Installation".
2. Disengage front seat adjustment switch group fixing pawls, and then remove front seat adjustment switch group ① as shown by the arrows in the figure.

△ : Pawl



INSTALLATION

Install in the reverse order of removal.