SECTION ADP В AUTOMATIC DRIVE POSITIONER С

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< PRECAUTION >

PRECAUTION PRECAUTIONS

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

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

WARNING:

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see "SRS AIR BAG".
- Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

WARNING:

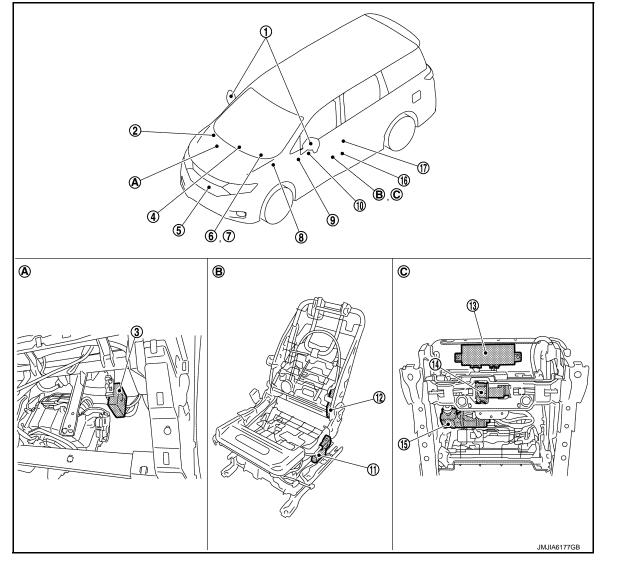
Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, never use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

< SYSTEM DESCRIPTION >

SYSTEM DESCRIPTION COMPONENT PARTS

Component Parts Location



A. View with instrument lower panel RH B. Vie removed ba

View with seat cushion pad and seat C. Backside of seat cushion back pad removed

No.	Component parts		Description
		Door mirror motor	It makes mirror face operate from side to side and up and down with the electric power that automatic drive positioner control unit supplies. Refer to <u>MIR-5. "Component Parts Location"</u> for detailed installation location.
1.	Door mirror (driver side/ passenger side)	Mirror sensor	 Mirror sensor is installed to door mirror. The resistance of 2 sensors (horizontal and vertical) is changed when door mirror is operated. Automatic drive positioner control unit calculates door mirror po- sition according to the change of the voltage of 2 sensor input terminals. Refer to <u>MIR-5. "Component Parts Location"</u> for detailed installa- tion location.

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< SYSTEM DESCRIPTION >

No.	Compon	ent parts	Description
2.	ABS actuator and electric	unit (control unit)	Transmit the vehicle speed signal to driver seat control unit via CAN communication. Refer to <u>BRC-8</u> , " <u>Component Parts Location</u> " for detailed installation location.
3.	Automatic drive positioner	control unit	Refer to ADP-8, "Automatic Drive Positioner Control Unit".
4.	CVT sift selector (Detentio	on switch)	 Detention switch is installed on CVT shift selector. It is turned OFF when CVT shift selector is in P position. Driver seat control unit judges that CVT shift selector is in P po- sition if continuity does not exist in this circuit. Refer to <u>TM-10</u>, "CVT CONTROL SYSTEM : Component Parts Lo- cation" for detailed installation location.
5.	ТСМ		 The following signals are transmitted to driver seat control unit via CAN communication. Shift position signal (P range) Identification of transmission: CVT Refer to <u>TM-10, "CVT CONTROL SYSTEM : Component Parts Location"</u> for detailed installation location.
6.	Combination meter		Transmit the vehicle speed signal to driver seat control unit via CAN communication. Refer to <u>MWI-6. "METER SYSTEM : Component Parts Location"</u> for detailed installation location.
7.	7. BCM		 Recognizes the following status and transmits it to driver seat control unit via CAN communication. Handle position: LHD Driver door: OPEN/CLOSE Ignition switch position: ACC/ON Door lock: UNLOCK (with Intelligent key or driver side door request switch operation) Key ID Starter: CRANKING/OTHER Refer to <u>BCS-4, "BODY CONTROL SYSTEM : Component Parts</u> Location" for detailed installation location.
8.	IPDM E/R		ON/OFF signal of CVT shift selector (detention switch) is transmit- ted to driver seat control unit via CAN communication. Refer to <u>PCS-4</u> , " <u>IPDM E/R : Component Parts Location</u> " for de- tailed installation location.
g	Door mirror remote con-	Mirror switch	 Mirror switch is integrated in door mirror remote control switch. It operates angle of door mirror face. It transmits mirror face adjust operation to automatic drive positioner control unit. Refer to <u>MIR-5, "Component Parts Location"</u> for detailed installation location.
	trol switch	Changeover switch	 Changeover switch is integrated in door mirror remote control switch. Changeover switch has three positions (L, N and R). It changes operating door mirror motor by transmitting control signal to automatic drive positioner control unit. Refer to <u>MIR-5, "Component Parts Location"</u> for detailed installation location.
10.	Seat memory switch	Set switch	Refer to ADP-8, "Seat Memory Switch".

< SYSTEM DESCRIPTION >

No.	Comp	onent parts	Description	
11.	Lifting motor (rear)	Lifting motor (rear)	 Lifting motor (rear) is installed to seat slide cushion frame. Lifting motor (rear) is activated with driver seat control unit. Seat lifter (rear) is moved upward/downward by changing the rotation direction of lifting motor (rear). Refer to <u>SE-8. "POWER SEAT SYSTEM : Component Parts Location"</u> for detailed installation location. 	
		Lifting sensor (rear)	 Lifting sensor (rear) is installed to seat side cushion frame. The pulse signal is input to driver seat control unit when lifting (rear) is operated. Driver seat control unit counts the pulse and calculates the lifting (rear) amount of the seat. Refer to <u>SE-8. "POWER SEAT SYSTEM : Component Parts Location"</u> for detailed installation location. 	
12.	Reclining motor	Reclining motor	Seat reclining motor is installed to seat back frame. Seat reclining motor is activated with driver seat control unit. Seatback is reclined frontward/rearward by changing the rotation direction of reclining motor. Refer to <u>SE-8. "POWER SEAT SYSTEM : Component Parts Location"</u> for detailed installation location.	
		Reclining sensor	 Reclining sensor is integrated in reclining motor. The pulse signal is input to driver seat control unit when the reclining is operated. Driver seat control unit counts the pulse and calculates the reclining amount of the seat. Refer to <u>SE-8. "POWER SEAT SYSTEM : Component Parts Location"</u> for detailed installation location. 	
13.	Driver seat control unit		Refer to ADP-8, "Driver Seat Control Unit".	
	Sliding motor	Sliding motor	 Seat sliding motor is installed to the seat cushion frame. Seat sliding motor is activated with driver seat control unit. Slides the seat frontward/ rearward by changing the rotation direction of sliding motor. Refer to <u>SE-8, "POWER SEAT SYSTEM : Component Parts Location"</u> for detailed installation location. 	
14.		Sliding sensor	 Sliding sensor is integrated in sliding motor. The pulse signal is input to driver seat control unit when sliding is performed. Driver seat control unit counts the pulse and calculates the sliding amount of the seat. Refer to <u>SE-8</u>, "POWER SEAT SYSTEM : Component Parts Location" for detailed installation location. 	
15.	Lifting motor (front)	Lifting motor (front)	 Lifting motor (front) is installed to seat side cushion frame. Lifting motor is activated with driver seat control unit. Seat lifter (front) is moved upward/downward by changing the rotation direction of lifting motor (front). Refer to <u>SE-8, "POWER SEAT SYSTEM : Component Parts Location"</u> for detailed installation location. 	
		Lifting sensor (front)	 Lifting sensor (front) is installed in lifting motor (rear). When lifting motor (rear) operates, pulse signal is transmitted to driver seat control unit from lifting sensor. Driver seat control unit counts the pulse and calculates the lift position (rear) of the seat. Refer to <u>SE-8, "POWER SEAT SYSTEM : Component Parts Location"</u> for detailed installation location. 	

< SYSTEM DESCRIPTION >

No.	Compon	ent parts	Description
	16. Power seat switch	Sliding switch	 Sliding switch is equipped to power seat switch on seat cushion side surface. The operation signal is input to driver seat control unit when sliding switch is operated. Refer to <u>SE-8. "POWER SEAT SYSTEM : Component Parts Location"</u> for detailed installation location.
16		Reclining switch	 The operation signal is input to driver seat control unit when reclining switch is operated. The operation signal is input to driver seat control unit when reclining switch is operated. Refer to <u>SE-8. "POWER SEAT SYSTEM : Component Parts Location"</u> for detailed installation location.
16.		Lifting switch (front)	 Lifting switch (front) is equipped to power seat switch on seat cushion side surface. The operation signal is input to driver seat control unit when lifting switch (front) is operated. Refer to <u>SE-8. "POWER SEAT SYSTEM : Component Parts Location.</u>"
		Lifting switch (rear)	 Lifting switch (rear) is equipped to power seat switch on seat cushion side surface. The operation signal is input to driver seat control unit when lifting switch (rear) is operated. Refer to <u>SE-8. "POWER SEAT SYSTEM : Component Parts Location"</u> for detailed installation location.
17.	Front door switch (driver side)		Detects door open/close condition and transmits to BCM. Refer to <u>DLK-18, "DOOR LOCK SYSTEM : Component Parts Lo-</u> <u>cation"</u> for detailed installation location.

Automatic Drive Positioner Control Unit

- It communicates with driver seat control unit via UART communication.
- Perform various controls with the instructions of driver seat control unit.
- Perform the controls of door mirror and seat memory switch.
- Operates door mirror with the signal from the driver seat control.

Seat Memory Switch

SET SWITCH

It is used for registration and setting change of driving position and Intelligent Key interlock function.

SEAT MEMORY SWITCH

- The maximum 2 driving positions can be registered by memory switch 1 to 2.
- Driving position is set to the registered driving position when memory switch is pressed while operation conditions are satisfied.

SEAT MEMORY INDICATOR

Memory indicator indicates the status of auto driving position system by turning ON or blinking.

Driver Seat Control Unit

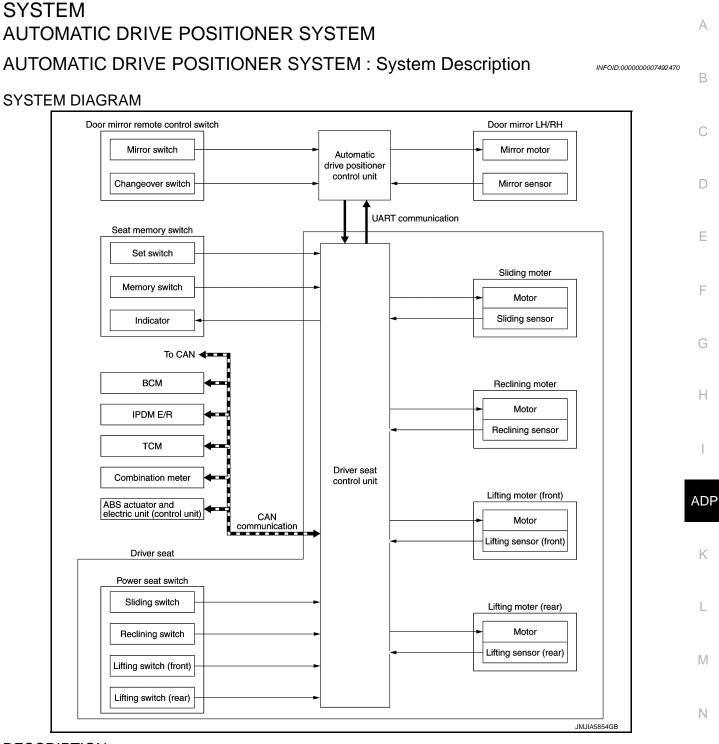
- · Main units of automatic drive positioner system.
- It is connected to the CAN.
- It communicates with automatic drive positioner control unit via UART communication.
- It perform memory function after receiving the door unlock signal from BCM.
- The address of each part is recorded.
- Operates each motor of seat to the registered position.
- Requests the operation of door mirror to automatic drive positioner control unit.
- Operates the specific seat motor with the signal from power seat switch.
- Transmits the ignition switch signal (ACC/ON) via UART communication to automatic driver positioner control unit.

ADP-8

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DESCRIPTION

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

Function	Description
Manual function	The driving position (seat and door mirror position) can be adjusted by using the pow- er seat switch or door mirror remote control switch.
Memory function	The seat and door mirror move to the stored driving position by pressing seat memory switch (1 or 2).

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< SYSTEM DESCRIPTION >

Function		Description
Entry/Exit assist function	Exit	On exit, the seat moves backward.
Entry		On entry, the seat returns from exiting position to the previous driving position.
Intelligent Key interlock function		Perform memory operation, exiting operation and entry operation by Intelligent Key unlock operation or driver side door request switch unlock operation.

Sleep Control

Driver seat control unit equips sleep control for reducing power consumption.

The system switches to sleep control when all of the following conditions are satisfied.

• Ignition switch is OFF.

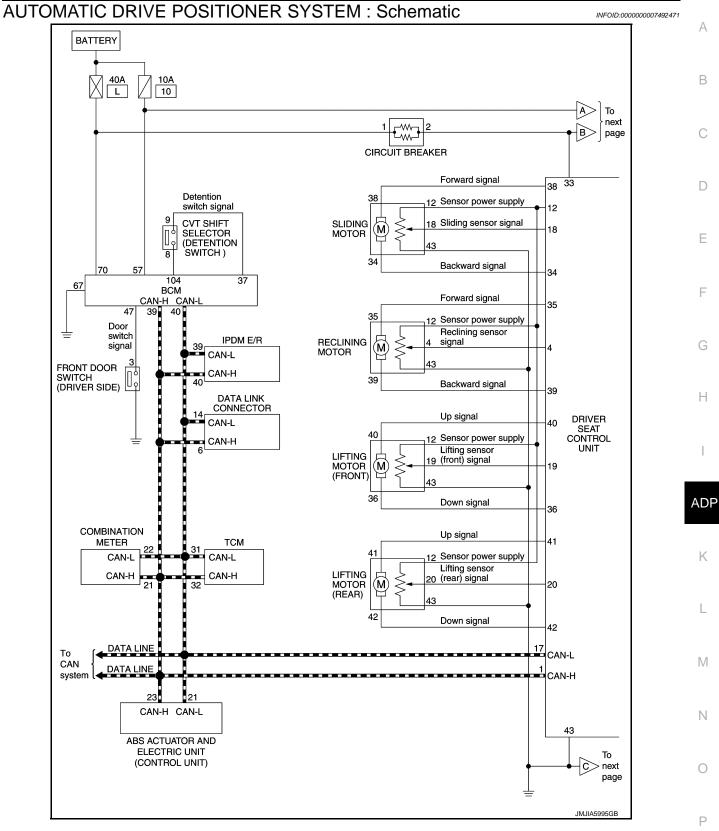
- All devices of auto driving position system are not operating.
- 45 seconds timer of driver seat control unit is not operating.
- Set switch and memory switch (1 and 2) are OFF.

Wake-up Control

Sleep control releases when detecting status change in either of the following item.

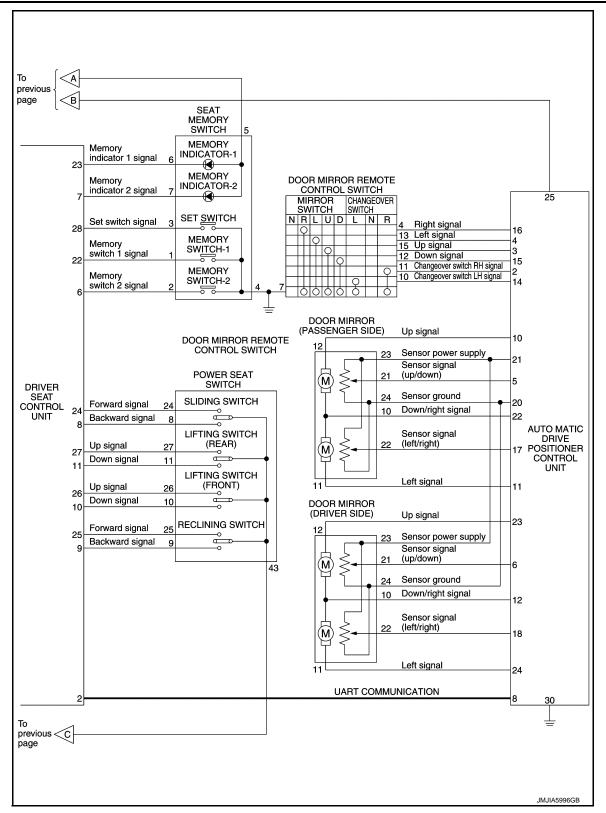
- CAN communication
- Power seat switch
- Set switch and seat memory switch (1 and 2)

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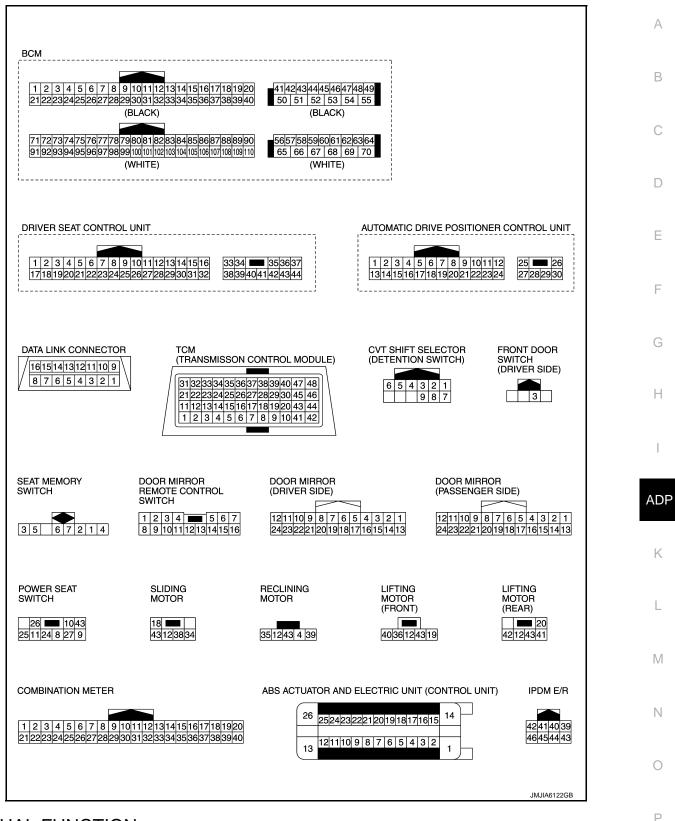




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MANUAL FUNCTION

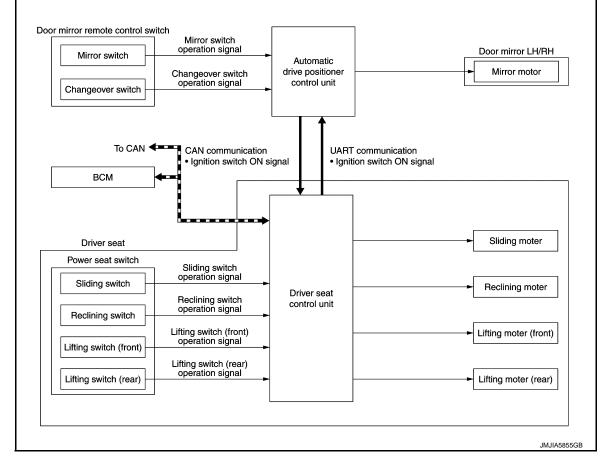
Revision: 2011 September

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MANUAL FUNCTION : System Description

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SYSTEM DIAGRAM



DESCRIPTION

- The driving position (seat and door mirror position) can be adjusted manually with power seat switch and door mirror remote control switch.
- The power seat can be operated manually regardless of the ignition switch position.
- The door mirrors can be operated manually when ignition switch is in either ACC or ON position.
- When power seat switch is operated, operation signal is transmitted to driver seat control unit. Each motor is
 operated according to operation signal.
- When mirror switch and changeover switch are operated, operation signal is transmitted to automatic drive positioner control unit. Mirror motor is operated according to operation signal.

MEMORY FUNCTION

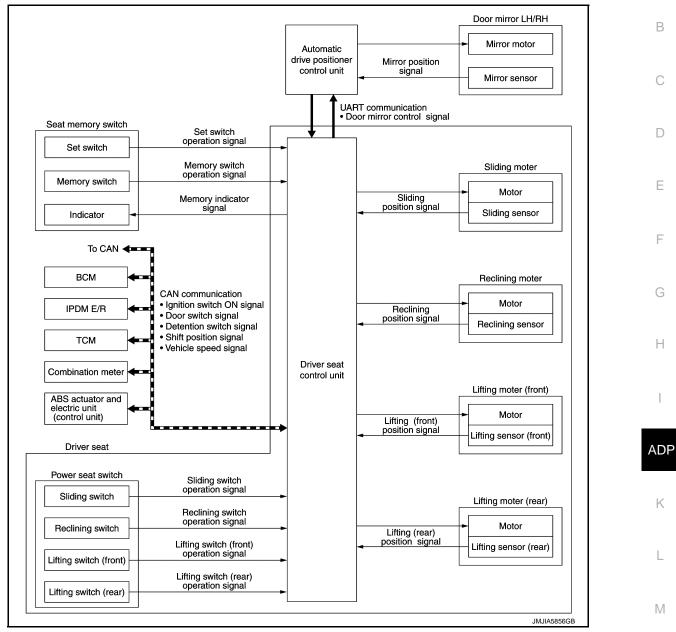
< SYSTEM DESCRIPTION >

MEMORY FUNCTION : System Description

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SYSTEM DIAGRAM



DESCRIPTION

- The driver seat control unit can store the optimum driving positions (seat and door mirror position) for 2 people. If the front seat position is changed, one-touch (pressing desired memory switch) operation allows changing to the other driving position.
- When memory switch 1 and 2 are operated, operation signal is transmitted to driver seat control unit.
- When driver seat control unit detects that memory switch is pressed for 0.5 seconds or more, driver seat control unit operates each motor of driver seat and detects the driver seat position according to signals transmitted from each sensor. Driver seat control unit requests the operation of mirror motor to automatic drive positioner control unit via UART communication.
- Automatic drive positioner control unit operates mirror motor, detects the door mirror position according to signal transmitted from mirror sensor, and transmits the detected door mirror position to driver seat control unit via UART communication.
- Driver seat control unit stops the operation of each motor when each part reaches the memorized positions.

• Driver seat control unit turns memory indicator lamp OFF that is blinking while each motor operates. **NOTE:**

Further information for the memory storage procedure. Refer to ADP-41, "Work Procedure".

< SYSTEM DESCRIPTION >

Operation Condition

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

Item	Request status
Ignition position	ON [*]
Switch inputs Power seat switch Door mirror control switch Set switch Memory switch 	OFF (Not operated)
CVT shift selector	P position
Memory function	Registered
Vehicle speed	0 km/h (0 MPH)
CONSULT	Not connected

*: When timer function does not operate.

Timer Function

- The memory function can be performed for 45 seconds after opening the driver door even if the ignition switch position is in OFF position.
- Satisfy all of the following items. The timer function is not performed if these items are not satisfied.

Item	Request status	
Ignition position	OFF	
Set switch/memory switch	OFF	
Memory function	Registered	
CVT shift selector	P position	
Front door switch (driver side)	OFF	
CUNSULT	Not connected	

EXIT ASSIST FUNCTION

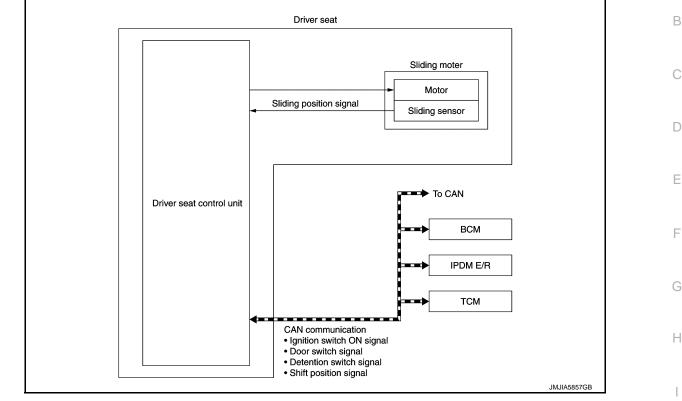
< SYSTEM DESCRIPTION >

EXIT ASSIST FUNCTION : System Description

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SYSTEM DIAGRAM



DESCRIPTION

- This function slides driver seat toward vehicle rear and facilitates entry/exit of the vehicle.
- Seat slide set amount of exit assist function is adjustable.
- When driver side door is open while operation conditions are satisfied, driver seat control unit receives front door switch (driver side) signal (open/close) from BCM via CAN communication. Driver seat control unit operates sliding motor and moves driver seat toward vehicle rear to the seat slide set amount when driver seat control unit detects that driver side door is open.
- Driver seat control unit receives sliding sensor position signal from sliding sensor. Driver seat control unit stops the operation of sliding motor when driver seat control unit detects that driver seat is slid to the seat slide set amount.

NOTE:

- This function is set to ON before delivery (initial setting).
- Further information for the system setting procedure. Refer to <u>ADP-43, "Description"</u>.

Operation Condition

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

Item	Request status	
Ignition position	OFF	
System setting (Entry/exit assist function)	ON	C
Initialization	Done	
Switch inputs Power seat switch Door mirror remote control switch Set switch Memory switch 	OFF (Not operated)	P
CVT shift selector	P position	
Handle position	LHD	

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< SYSTEM DESCRIPTION >

 Item
 Request status

 Transmission
 CVT

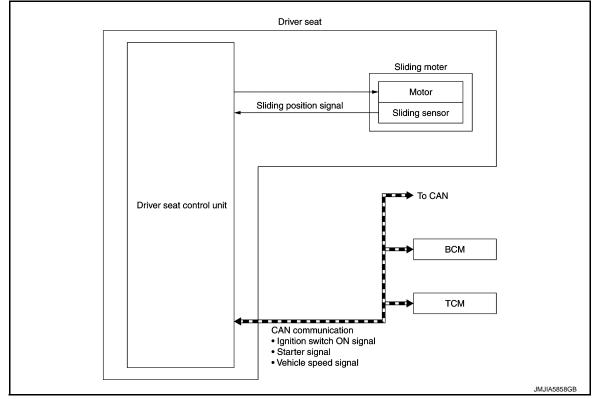
CUNSULT

Not connected

ENTRY ASSIST FUNCTION

ENTRY ASSIST FUNCTION : System Description

SYSTEM DIAGRAM



DESCRIPTION

- This function allows the driver seat control unit to return the driver seat from the exiting position to the previous driving position, when ignition switch is operated from OFF to ACC.
- Entry assist function stops when starter signal is ON while entry assist function is being operated. Entry assist function restarts when starter signal is OFF.
- When ignition switch is operated OFF to ACC while operation conditions are satisfied, driver seat control unit receives ACC signal from BCM via CAN communication. Driver seat control unit operates sliding motor when driver seat control unit detects that ignition switch is changed to ACC.
- Driver seat control unit receives sliding sensor position signal from sliding sensor. Driver seat control unit stops the operation of sliding motor when driver seat control unit detects that driver seat is returned to the previous driving position from the exiting position.

NOTE:

- This function is set to ON before delivery (initial setting).
- Further information for the system setting procedure. Refer to <u>ADP-43, "Description"</u>.

Operation Condition

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

Item	Request status	
Seat	The vehicle is not moved after performing the exit assist function.	
Switch inputs Power seat switch Door mirror control switch Set switch Memory switch 	OFF (Not operated)	

< SYSTEM DESCRIPTION >

Item	Request status	
Vehicle speed	0 km/h (0 MPH)	
Starter	OFF	
Transmission	CVT	
CONSULT	Not connected	

INTELLIGENT KEY INTERLOCK FUNCTION

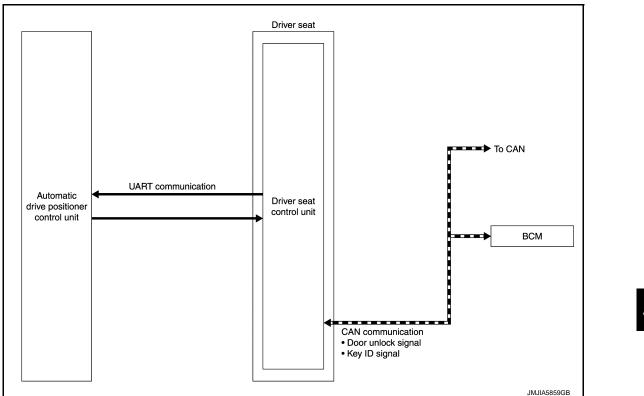
INTELLIGENT KEY INTERLOCK FUNCTION : System Description

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SYSTEM DIAGRAM



DESCRIPTION

- By associating Intelligent Key and automatic drive positioner system, the unlock operation of Intelligent Key or driver side door request switch performs memory function and entry/exit function.
- Registration of Intelligent Key interlock function can register a different key ID to the driver seat control unit, one by one, for memory switch 1 and 2. A total of 2 key IDs can be registered.
- Driver seat control unit receives door unlock signal and key ID signal from BCM when driver side door is unlocked using Intelligent Key or driver side door request switch.
- Driver seat control unit automatically adjusts driver seat and door mirror to the driving position according to key ID. Driver seat performs turnout position and sets to standby status.
- In standby status, when ignition switch is operated from OFF to ACC, return operation sets driver seat to the registered position.

NOTE:

- When another key ID is newly registered to a key switch to which a key ID is already registered, the previously registered key ID is overwritten and becomes unusable.
- When starter signal turns ON during return operation, the operation is interrupted, starter signal turns from PON to OFF, and operation restarts.
- Further information for Intelligent Key interlock function. Refer to ADP-42. "Description".

Operation Condition

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

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< SYSTEM DESCRIPTION >

Item	Request status	
Ignition position	OFF	
Intelligent key interlock function	Registered	
Switch inputs Power seat switch Door mirror control switch Set switch Memory switch 	OFF (Not operated)	
CVT shift selector	P position	

Fail-safe

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

Operating in fail-safe mode	Malfunction Item	Related DTC	Diagnosis
	CAN communication	U1000	ADP-44, "DTC Logic"
Only manual functions operate normally.	CONTROL UNIT (CAN)	U1010	ADP-45, "DTC Logic"
	EEPROM	B2130	ADP-49, "DTC Logic"
Only manual functions, except door mirror, operate normally.	UART communication	B2128	ADP-48, "DTC Logic"
Only manual functions, except seat sliding, operate normally.	Seat sliding output	B2112	ADP-46, "DTC Logic"
Only manual functions, except seat reclining, operate normally.	Seat reclining output	B2113	ADP-47, "DTC Logic"

DIAGNOSIS SYSTEM (DRIVER SEAT CONTROL UNIT)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (DRIVER SEAT CONTROL UNIT)

CONSULT Function

The automatic drive positioner system can be checked and diagnosed for component operation using CON- $_{\mbox{\scriptsize B}}$ SULT.

APPLICATION ITEMS

Diagnostic mode	Description
Ecu Identification	Displays part numbers of driver seat control unit.
Self Diagnostic Result	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.
Active Test	Drives each output unit.
Work support	Changes the setting for each system function.

SELF-DIAGNOSIS RESULTS Refer to <u>ADP-30, "DTC Index"</u>.

Refer to <u>ADI -50, DTO Index</u>.

DATA MONITOR

Monitor Item	Unit	Main Signals	Selection From Menu	Contents
STARTER SW	"ON/OFF"	×	×	Ignition key switch ON (START, ON) /OFF (ACC, OFF) sta- tus judged from the ignition switch signal.
SET SW	"ON/OFF"	×	×	ON/OFF status judged from the setting switch signal.
MEMORY SW 1	"ON/OFF"	×	×	ON/OFF status judged from the seat memory switch 1 signal.
MEMORY SW 2	"ON/OFF"	×	×	ON/OFF status judged from the seat memory switch 2 signal.
DETENT SW	"ON/OFF"	×	×	The CVT shift selector position "OFF (P position) / ON (oth- er than P position)" judged from the detention switch signal.
STEERING STATUS	"LOCK/UN- LOCK"	×	×	NOTE: This item is indicated, but not monitored.
SLIDE SW-FR	"ON/OFF"	×	×	ON/OFF status judged from the sliding switch (forward) signal.
SLIDE SW-RR	"ON/OFF"	×	×	ON/OFF status judged from the sliding switch (backward) signal.
RECLN SW-FR	"ON/OFF"	×	×	ON/OFF status judged from the reclining switch (forward) signal.
RECLN SW-RR	"ON/OFF"	×	×	ON/OFF status judged from the reclining switch (backward) signal.
LIFT FR SW-UP	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch front (up) signal.
LIFT FR SW-DN	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch front (down) signal.
LIFT RR SW-UP	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch rear (up) signal.
LIFT RR SW-DN	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch rear (down) signal.
MIR CON SW-UP	"ON/OFF"	×	×	ON/OFF status judged from the mirror switch (up) signal.
MIR CON SW-DN	"ON/OFF"	×	×	ON/OFF status judged from the mirror switch (down) signal.
MIR CON SW-RH	"ON/OFF"	×	×	ON/OFF status judged from the mirror switch (right) signal.

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DIAGNOSIS SYSTEM (DRIVER SEAT CONTROL UNIT)

< SYSTEM DESCRIPTION >

Monitor Item	Unit	Main Signals	Selection From Menu	Contents
MIR CON SW-LH	"ON/OFF"	×	×	ON/OFF status judged from the mirror switch (left) signal.
MIR CHNG SW-R	"ON/OFF"	×	×	ON/OFF status judged from the door mirror remote control switch (switching to right) signal.
MIR CHNG SW-L	"ON/OFF"	×	×	ON/OFF status judged from the door mirror remote control switch (switching to left) signal.
VEHICLE SPEED	—	×	×	Display the vehicle speed signal received from combination meter by numerical value [km/h].
P RANG SW CAN	"ON/OFF"	×	×	ON/OFF status judged from the P range switch signal.
R RANGE (CAN)	"ON/OFF"	×	×	ON/OFF status judged from the R range switch signal.
DOOR SW-FL	"ON/OFF"	×	×	ON/OFF status judged from the front door switch (driver side) signal.
DOOR SW-FR	"ON/OFF"	×	×	ON/OFF status judged from the door switch (front passen- ger side) signal.
IGN ON SW	"ON/OFF"	×	×	ON/OFF status judged from the ignition switch signal.
ACC ON SW	"ON/OFF"	×	×	ON/OFF status judged from the ACC switch signal.
KEY ON SW	"ON/OFF"	×	×	ON/OFF status judged from the key on switch signal.
KEYLESS ID	—	×	×	Key ID status judged from the key ID signal.
KYLS DR UNLK	"ON/OFF"	×	×	ON/OFF status judged from the driver side door unlock ac- tuator output switch signal.
VHCL SPEED (ABS)	"ON/OFF"	×	×	ON/OFF status judged from vehicle speed signal.
HANDLE	"RHD/LHD"	×	×	RHD/LHD status judged from handle position signal.
TRANSMISSION	"AT or CVT/ MT"	×	×	AT or CVT/MT status judged from transmission.
SLIDE PULSE	_	_	×	Value (32768) when battery connections are standard. If it moves backward, the value increases. If it moves forward, the value decreases.
RECLN PULSE	_	_	×	Value (32768) when battery connections are standard. If it moves backward, the value increases. If it moves forward, the value decreases.
LIFT FR PULSE	_	_	×	Value (32768) when battery connections are standard. If it moves DOWN, the value increases. If it moves UP, the value decreases.
LIFT RR PULSE	_	_	×	Value (32768) when battery connections are standard. If it moves DOWN, the value increases. If it moves UP, the value decreases.
MIR/SEN RH U-D	"V"	_	×	Voltage input from door mirror sensor (passenger side) up/ down is displayed.
MIR/SEN RH R-L	"V"	_	×	Voltage input from door mirror sensor (passenger side) left/ right is displayed.
MIR/SEN LH U-D	"V"	_	×	Voltage input from door mirror sensor (driver side) up/down is displayed.
MIR/SEN LH R-L	"V"	_	×	Voltage input from door mirror sensor (driver side) left/right is displayed.

ACTIVE TEST

CAUTION:

When driving vehicle, do not perform active test.

Test item	Description			
SEAT SLIDE	Activates/deactivates the sliding motor.			
SEAT RECLINING	Activates/deactivates the reclining motor.			

DIAGNOSIS SYSTEM (DRIVER SEAT CONTROL UNIT)

< SYSTEM DESCRIPTION >

Test item	Description	
SEAT LIFTER FR	Activates/deactivates the lifting motor (front).	
SEAT LIFTER RR	Activates/deactivates the lifting motor (rear).	
MIRROR MOTOR RH	Activates/deactivates the mirror motor (passenger side).	
MIRROR MOTOR LH	Activates/deactivates the mirror motor (driver side).	
MEMORY SW INDCTR	Turns ON/OFF the memory indicator.	

WORK SUPPORT

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

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< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION BCM (BODY CONTROL MODULE)

List of ECU Reference

ECU	Reference
	BCS-36, "Reference Value"
всм	BCS-58, "Fail-safe"
	BCS-58, "DTC Inspection Priority Chart"
-	BCS-59, "DTC Index"

< ECU DIAGNOSIS INFORMATION >

DRIVER SEAT CONTROL UNIT

Reference Value

VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condi	tion	Value/Status	
		Push	ON	С
SET SW	Set switch	Release	OFF	
	Manager av itali 4	Push	ON	D
MEMORY SW1	Memory switch 1	Release	OFF	D
	Maman awitch 2	Push	ON	
MEMORY SW2	Memory switch 2	Release	OFF	E
	Oliding owitch (forward)	Operate	ON	
SLIDE SW-FR	Sliding switch (forward)	Release	OFF	_
SLIDE SW-RR	Cliding owitch (hookword)	Operate	ON	— F
SLIDE SW-RR	Sliding switch (backward)	Release	OFF	
	Baclining owitch (forward)	Operate	ON	G
RECLN SW-FR	Reclining switch (forward)	Release	OFF	
	Reclining switch (back-	Operate	ON	
RECLN SW-RR	ward)	Release	OFF	Η
	Lifting switch front (up)	Operate	ON	
LIFT FR SW-UP		Release	OFF	
LIFT FR SW-DN	Lifting quitch front (down)	Operate	ON	
	Lifting switch front (down)	Release	OFF	
	Lifting switch rear (up)	Operate	ON	ADP
LIFT RR SW-UP		Release	OFF	
	Lifting switch rear (down)	Operate	ON	K
LIFT RR SW-DN		Release	OFF	
MIR CON SW-UP	Mirror switch	Up	ON	
WIR CON SW-UP		Other than the above	OFF	L
MIR CON SW-DN	Mirror switch	Down	ON	
WIR CON SW-DN		Other than the above	OFF	M
MIR CON SW-RH	Mirror switch	Right	ON	IVI
WIR CON SW-RH		Other than the above	OFF	
MIR CON SW-LH	Mirror switch	Left	ON	N
MIR CON SWEET	WINTOF SWICH	Other than the above	OFF	
MIR CHNG SW-R	Changeover switch	Right	ON	
		Other than the above	OFF	0
MIR CHNG SW-L	Changeover switch	Left	ON	
	Changeover switch	Other than the above	OFF	P
DETENT SW	CVT shift selector	P position	OFF	
		Other than the above	ON	—
STARTER SW	Ignition position	Cranking	ON	_
		Other than the above	OFF	=

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< ECU DIAGNOSIS INFORMATION >

Monitor Item	Cond	ition	Value/Status		
		Forward	The numeral value decreases *		
SLIDE PULSE	Seat sliding	Backward	The numeral value increases*		
		Other than the above	No change to numeral value*		
		Forward	The numeral value decreases*		
RECLN PULSE	Seat reclining	Backward	The numeral value increases *		
		Other than the above	No change to numeral value [*]		
		Up	The numeral value decreases *		
LIFT FR PULSE	Seat lifter (front)	Down	The numeral value increases *		
		Other than the above	No change to numeral value*		
		Up	The numeral value decreases *		
LIFT RR PULSE	Seat lifter (rear)	Down	The numeral value increases *		
		Other than the above	No change to numeral value*		
MIR/SEN RH U-D	Door mirror (passenger sid	e)	Change between 3.4 (close to peak) 0.6 (close to valley)		
MIR/SEN RH R-L	Door mirror (passenger sid	e)	Change between 3.4 (close to left edge) 0.6 (close to right edge)		
MIR/SEN LH U-D	Door mirror (driver side)		Change between 3.4 (close to peak) 0.6 (close to valley)		
MIR/SEN LH R-L	Door mirror (driver side)		Change between 0.6 (close to left edge) 3.4 (close to right edge)		
STEERING STATUS	Steering lock unit	Unlock	NOTE: This item is indicated, but not monitored.		
VEHICLE SPEED	The condition of vehicle sp	eed is displayed	km/h		
P RANG SW CAN	CVT shift selector	P position	ON		
		Other than the above	OFF		
R RANGE (CAN)	CVT shift selector	R position	ON		
		Other than the above	OFF		
DOOR SW-FL	Driver door	Open	ON		
		Close	OFF		
DOOR SW-FR	Passenger door	Open	ON		
	·	Close	OFF		
IGN ON SW	Ignition switch	ON position	ON		
		Other than the above	OFF		
ACC ON SW	Ignition switch	ACC or ON position	ON		
	Ighilion ownon	Other than the above	OFF		
KEYLESS ID	UNLOCK button of Intellige		1, 2, 3, 4 or 5		
KYLS DR UNLK	Intelligent Key or driver side door request switch	ON	ON		
		OFF	OFF		
VHCL SPEED (ABS)	Can signal from ABS	Received	ON		
		Not received	OFF		
HANDLE	The BCM for handle position	on is displayed	LHD		
			RHD		
TRANSMISSION	Transmission type is displa	yed	AT or CVT		
			MT		

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

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 6 7 8 9 10 11 12 13 14 15 16 7 18 9 10 11 12 13 14 15 16 13 14 <t< td=""><td></td><td>В</td></t<>		В
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	JMJIA3903ZZ	
		D

PHYSICAL VALUES

	inal No. e color)	Description		0	dition		
+	-	Signal name	Input/ output	Con	uuun	Voltage (V)	
1 (R/Y)	_	CAN-H	_	-	-	_	
2 (R)	Ground	UART communication (TX/RX)	Input	Ignition switch ON		10msec/div MITHUNNI WINN SV/div JMJIA1391ZZ	
4 (R/L)	Ground	Reclining sensor sig- nal	Input	Seat reclining	Operate	10mSec/div	
					Other than the above	0 - 1 or 4 - 6	
6		Memory switch 2 sig-	Press	itch 2 cig	0 - 1		
(R/W)	Ground	nal	Input	Memory switch 2	Other than the above	4 - 6	
7		Memory indicator 2		Memory indicator	Illuminate	0 - 1	
7 (R/G)	Ground	signal	Output	2	Other than the above	9 – 16	
8	Ground	Sliding switch back-	Incut	Sliding switch	Operate (backward)	0 - 1	
(SB)	Ground	ward signal	Input		Other than the above	9 – 16	
9	Crownel	Reclining switch back-	10001		Operate (backward)	0 - 1	
(L)	Ground	ward signal	Input	Reclining switch	Other than the above	9 – 16	
10	0 Lifting switch (front)	Incut	Lifting switch	Operate (down)	0 – 1		
(L/B)	Ground	down signal	Input	(front)	Other than the above	9 - 16	

< ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description		Condition		Voltogo (V)														
+	-	Signal name	Input/ output			Voltage (V)														
11	Ground	Lifting switch (rear)	Input	Lifting switch	Operate (down)	0 - 1														
(L/W)	Ground	down signal	input	(rear)	Other than the above	9 – 16														
12 (L/R)	Ground	Sensor power supply	Output	-		9 – 16														
17 (V)	—	CAN-L	—	-	_	_														
18 (B/W)	Ground	Sliding sensor signal	Input	Seat sliding	Operate	10mSec/div														
					Other than the above	0 – 1 or 4 – 6														
19 (B/R)	Ground	Lifting sensor (front) signal	Input	Seat lifting (front)	Operate	10mSec/div														
																			Other than the above	0 – 1 or 4 – 6
20 (B/L)	Ground	Lifting sensor (rear) signal	Input	Seat lifting (rear)	Operate	10mSec/div														
					Other than the above	0 – 1 or 4 – 6														
22	Ground	Memory switch 1 sig-	Input	Memory switch 1	Press Other than the	0 - 1														
(W/L)		nal			above	4 - 6														
23 (W/R)	Ground	Memory indicator 1 signal	Output	Memory indicator 1	Illuminate Other than the above	0 - 1 9 - 16														
24	0	Sliding switch forward			Operate (forward)	0 – 1														
(V/W)	Ground	signal	Input	Sliding switch	Other than the above	9 - 16														
25	Ground	Reclining switch for-	Input	Reclining switch	Operate (forward)	0 – 1														
(Y/B)	Crodina	ward signal	input	Switch	Other than the above	9 – 16														

< ECU DIAGNOSIS INFORMATION >

Terminal No. (Wire color)		Description		Condition			ļ		
+	-	Signal name	Input/ output	Condition		Voltage (V)			
26	Ground	Lifting switch (front) up	Input	Lifting switch	Operate (up)	0 – 1	E		
(Y/R)	Ground	signal	mpar	(front)	Other than the above	9 - 16	C		
27	Ground	Lifting switch (rear) up	Input	Lifting switch	Operate (up)	0 – 1			
(Y/L)	Croana	signal	mpar	(rear)	Other than the above	9 - 16			
28					Press	0 - 1			
(G)	Ground	Set switch signal	Input	Set switch	Other than the above	4 - 6	E		
33 (R)	Ground	Battery power supply	Input	-	_	9 - 16	F		
34	Ground	Sliding motor back-	Output	Seat sliding	Operate (backward)	9 – 16			
(B)	Ground	ward output signal	Output	Seat sliding	Other than the above	0 - 1	0		
35	Ground	Reclining motor for-	Output	Seat reclining	Operate (forward)	9 – 16	ŀ		
(G)	(G) Ground wa	ward output signal	ward output signal	ward output signal	Output	Seat reclining	Other than the above	0 – 1	
36	Ground	Lifting motor (front)	Lifting motor (front)	Seat lifting (front)	Operate (down)	9 – 16	I		
(L)	Ground	down output signal	Output	Seat mung (nont)	Other than the above	0 - 1	A		
38	Ground	Sliding motor forward	Output	Costoliding	Operate (forward)	9 – 16			
(GR)		output signal	Output	Seat sliding	Other than the above	0 – 1	ŀ		
39	Ground	Reclining motor back-	Output	Sect realizing	Operate (backward)	9 – 16	I		
(Y)	Ground	ward output signal	Output	Seat reclining	Other than the above	0 – 1			
40	Ground	Lifting motor (front) up	Output	Seat lifting (front)	Operate (up)	9 – 16	Ν		
(W)	Ground	output signal	Output	Seat mung (nont)	Other than the above	0 - 1	Ν		
41	Crownel	Lifting motor (rear) up	Outerst	Poot lifting (read)	Operate (up)	9 – 16	I.		
(V)	Ground	output signal	Output	t Seat lifting (rear)	Other than the above	0 – 1	C		
42	Crownel	Lifting motor (rear)	0	Coot lifting ()	Operate (down)	9 – 16			
(P/B)	Ground	down output signal	Output	Seat lifting (rear)	Other than the above	0 – 1	F		
43 (LG)	Ground	Ground	_	-	·	0 - 1			

Fail-safe

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

2012 QUEST

< ECU DIAGNOSIS INFORMATION >

Operating in fail-safe mode	Malfunction Item	Related DTC	Diagnosis
	CAN communication	U1000	ADP-44, "DTC Logic"
Only manual functions operate normally.	CONTROL UNIT (CAN)	U1010	ADP-45, "DTC Logic"
	EEPROM	B2130	ADP-49, "DTC Logic"
Only manual functions, except door mirror, operate normally.	UART communication	B2128	ADP-48, "DTC Logic"
Only manual functions, except seat sliding, operate normally.	Seat sliding output	B2112	ADP-46, "DTC Logic"
Only manual functions, except seat reclining, operate normally.	Seat reclining output	B2113	ADP-47, "DTC Logic"

DTC Index

INFOID:000000007492482

	Tim	ning [*]			
CONSULT display	Current mal- function function		Item	Reference page	
CAN COMM CIRCUIT [U1000]	0	1-39	CAN communication	ADP-44, "DTC Logic"	
CONTROL UNIT (CAN) [U1010]	0	1-39	Control unit	ADP-45, "DTC Logic"	
SEAT SLIDE [B2112]	0	1-39	Seat slide motor output	ADP-46, "DTC Logic"	
SEAT RECLINING [B2113]	0	1-39	Seat reclining motor output	ADP-47, "DTC Logic"	
UART COMM [B2128]	0	1-39	UART communication	ADP-48, "DTC Logic"	
EEPROM [B2130]	0	1-39	EEPROM	ADP-49, "DTC Logic"	

• 0: Current malfunction is present

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

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

Reference Value

INFOID:000000007492483

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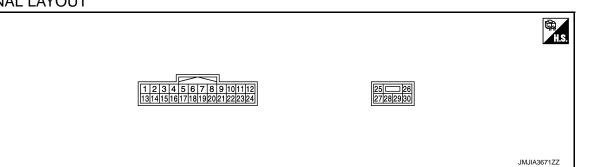
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TERMINAL LAYOUT



PHYSICAL VALUES

	iinal No. e color)	Description		Condition		Voltage (V)	
+	-	Signal name	Input/ Output			voltage (v)	
2		Changeover switch RH		Changeover	RH	0 - 1	
(Y)	Ground	signal	Input	switch position	Other than the above	4 - 6	
3	Cround	Mirror quitch up gignol	loout	Mirror owitch	Operated (up)	0 – 1	
(V)	Ground	Mirror switch up signal	Input	Mirror switch	Other than the above	4 - 6	
4	Creation	Mirror quitab 154 sizes 1	ا بر م		Operated (left)	0 - 1	
(LG)	Ground	Mirror switch left signal	Input	Mirror switch	Other than the above	4 - 6	
5 (R)	Ground	Door mirror sensor (pas- senger side) up/down signal	Input	Door mirror RH position		Change between 3.4 (close to peak) 0.6 (close to valley)	
6 (V)	Ground	Door mirror sensor (driv- er side) up/down signal	Input	Door mirror LH p	osition	Change between 3.4 (close to peak) 0.6 (close to valley)	
8 (GR)	Ground	UART communication (TX/RX)	Output	Ignition switch O	N	10msec/div 10msec/div 5V/div JMJIMU WW JMJIA1391ZZ	
10	Ground	Door mirror motor (pas- senger side) up output	Output	Door mirror PH	Operate (up)	9 – 16	
(BR)	Giound	signal	Output	Door mirror RH	Other than the above	0 – 1	
11	Ground	Door mirror motor (pas-	Output	Door mirror RH	Operate (left)	9 – 16	
(W) Ground	ound senger side) left output signal			Other than the above	0 - 1		

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

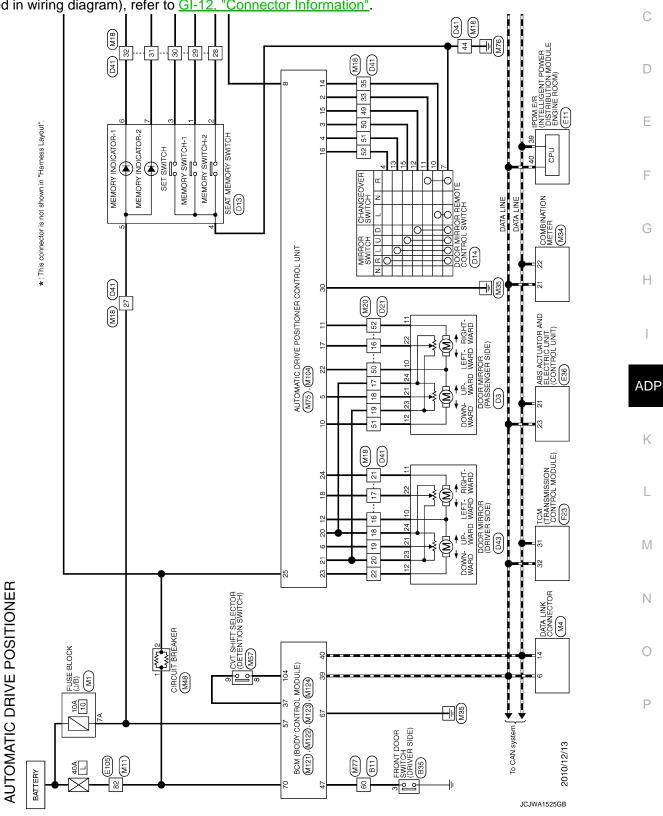
	inal No. e color)	Description		Car	dition	Voltage (1)		
+	-	Signal name	Input/ Output	Condition		Voltage (V)		
12	Ground	Door mirror motor (driver side) down/right output	Output	Door mirror (LH)	Operate (down/right)	9 – 16		
(Y)	Ground	signal	Output		Other than the above	0 – 1		
14		Changeover switch LH		Changeover	LH	0 - 1		
(GR)	Ground	signal	Input	switch position	Other than the above	4 - 6		
15	Ground	Mirror switch down sig-	logut	Mirror switch	Operate (down)	0 – 1		
(O)	Giouna	nal	Input	WIND SWICH	Other than the above	4 - 6		
16	0				Operate (right)	0 - 1		
(W)	Ground	Mirror switch right signal	Input	Mirror switch	Other than the above	4 - 6		
17 (BR)	Ground	Door mirror sensor (pas- senger side) left/right signal	Input	Door mirror RH position		Change between 3.4 (close to left edge) 0.6 (close to right edge)		
18 (SB)	Ground	Door mirror sensor (driv- er side) left/right signal	Input	Door mirror LH po	osition	Change between 0.6 (close to left edge) 3.4 (close to right edge)		
20 (P)	Ground	Sensor ground	_		_	0 - 1		
21 (Y)	Ground	Door mirror motor sen- sor power supply	Input		_	4 - 6		
22	Ground	Door mirror motor (pas-	Output		Operate (down/right)	9 – 16		
(V)	Ground	senger side) down/right output signal	Output	Door mirror (RH)	Other than the above	0 - 1		
23	Ground	Door mirror motor (driver	Output		Operate (up)	9 – 16		
(G)	Ground	side) up output signal	Output	Door mirror (LH)	Other than the above	0 - 1		
24	Ora	Door mirror motor (driver	Outrast		Operate (left)	9 – 16		
(W)	Ground	side) left output signal	Output	Door mirror (LH) Other than the above		Other than the		0 - 1
25 (R)	Ground	Battery power supply	Input			9 – 16		
30 (B/W)	Ground	Ground				0 – 1		

< WIRING DIAGRAM >

WIRING DIAGRAM AUTOMATIC DRIVE POSITIONER SYSTEM

Wiring Diagram

For connector terminal arrangements, harness layouts, and alphabets in a \bigcirc (option abbreviation; if not described in wiring diagram), refer to <u>GI-12</u>, "<u>Connector Information</u>".



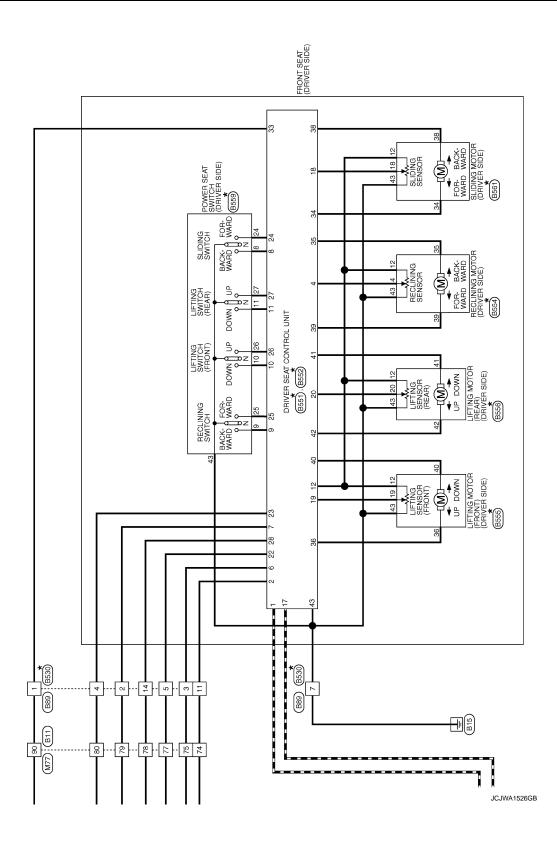
Revision: 2011 September

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AUTOMATIC DRIVE POSITIONER SYSTEM

< WIRING DIAGRAM >



< BASIC INSPECTION >

BASIC INSPECTION DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

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OVERALL SEQUENCE



DETAILED FLOW

JMJIA1702GB

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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

1.GET INFORMATION FOR SYMPTOM

Get the detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurred).

>> GO TO 2.

2. CHECK DTC WITH AUTOMATIC DRIVE POSITIONER SYSTEM

Check "Self Diagnostic Result" with CONSULT. Refer to ADP-30, "DTC Index"

Is any symptom described and any DTC is displayed?

Symptom is described, DTC is displayed.>>GO TO 3. Symptom is not described, DTC is displayed.>>GO TO 6. Symptom is described, DTC is not displayed.>>GO TO 4.

3.CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

>> GO TO 6.

4.CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

>> GO TO 5.

5. CHECK NORMAL OPERATING CONDITION

Check normal operating condition. Refer to <u>ADP-102, "Description"</u>.

Is the incident normal operation?

YES >> INSPECTION END

NO >> GO TO 7.

6.PERFORM DTC CONFIRMATION PROCEDURE

Perform the confirmation procedure for the detected DTC.

Is the DTC displayed?

YES >> GO TO 8.

NO >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u>.

7.PERFORM COMPONENT FUNCTION CHECK

Perform the component function check for the isolated malfunctioning point.

>> GO TO 8.

8. DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Isolate the malfunctioning point by performing the diagnosis procedure relevant to the symptom during the component diagnosis.

>> GO TO 9.

9.Repare or replace the malfunctioning parts

Repair or replace the malfunctioning part.

>> GO TO 10.

10.FINAL CHECK

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

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ADP-36

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

YES >> INSPECTION END Symptom is detected.>> GO TO 5. DTC is detected.>> GO TO 6.

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ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL < BASIC INSPECTION >

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMI-NAL

Description

INFOID:000000007492486

Each function is reset to the following condition when the battery terminal is disconnected.

Function	Condition	Procedure
Memory (Seat, mirror)	Erased	Perform storing
		Perform initialization
Entry/exit assist	ON	Set slide amount [*]
Intelligent Key interlock	Erased	Perform initialization
	LIASEU	Perform storing

*: Default value is 40 mm.

NOTE:

Notice that disconnecting the battery when detected DTC are present will erase the DTC memory.

Work Procedure

INFOID:000000007492487

1.SYSTEM INITIALIZATION

Perform system initialization. Refer to <u>ADP-40, "Work Procedure"</u>.

>> GO TO 2.

2.MEMORY STORAGE

Perform memory storage. Refer to <u>ADP-41, "Work Procedure"</u>.

>> GO TO 3.

3.INTELLIGENT KEY INTERLOCK STORAGE

Perform Intelligent Key interlock storage. Refer to ADP-42, "Work Procedure".

>> GO TO 4. **4.**SYSTEM SETTING

Perform system setting. Refer to <u>ADP-43, "Work Procedure"</u>.

>> END

ADDITIONAL SERVICE WHEN REMOVING DRIVER SEAT CONTROL UNIT < BASIC INSPECTION >

ADDITIONAL SERVICE WHEN REMOVING DRIVER SEAT CONTROL UNIT

Description

INFOID:000000007492488

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Each function is reset to the following condition when the driver seat control unit is replaced.

Function	Condition	Procedure	
Memory (Seat, mirror)	Erased	Perform storing	_
		Perform initialization	
Entry/exit assist	ON	Set slide amount [*]	_
		Perform initialization	
Intelligent Key interlock	Erased	Perform storing	
Default value is 40 mm.			_
IOTE:	acted DTC are pres	ant will arose the DTC memory	
lotice that disconnecting the battery when determined by the second se	ected DTC are pres	ent will erase the DTC memory.	
Vork Procedure		INFOID:000000007	7492489
. SYSTEM INITIALIZATION			
Perform system initialization. Refer to ADP-40,	"Work Procedure".		
· · · · · ·			
>> GO TO 2.			
MEMORY STORAGE			
Perform memory storage. Refer to <u>ADP-41, "W</u>	ork Procedure".		
>> GO TO 3.			/
3. INTELLIGENT KEY INTERLOCK STORAGI			
Perform Intelligent Key interlock storage. Refer	to <u>ADP-42, "Work I</u>	Procedure".	
>> GO TO 4.			
-			
SYSTEM SETTING	dr. Droooduura"		
•.SYSTEM SETTING Perform system setting. Refer to <u>ADP-43. "Wor</u>	rk Procedure".		
Perform system setting. Refer to <u>ADP-43. "Wor</u>	rk Procedure".		
	rk Procedure".		
Perform system setting. Refer to <u>ADP-43. "Wor</u>	rk Procedure".		
Perform system setting. Refer to <u>ADP-43. "Wor</u>	rk Procedure".		
Perform system setting. Refer to <u>ADP-43. "Wor</u>	rk Procedure".		
Perform system setting. Refer to <u>ADP-43. "Wor</u>	rk Procedure".		
Perform system setting. Refer to <u>ADP-43. "Wor</u>	rk Procedure".		

SYSTEM INITIALIZATION

< BASIC INSPECTION >

SYSTEM INITIALIZATION

Description

INFOID:000000007492490

Always perform the initialization when the battery terminal is disconnected or the driver seat control unit is replaced.

The entry/exit assist function will not operate normally if no initialization is performed.

Work Procedure

INFOID:000000007492491

1.STEP 1

There are two initialization methods. Which method do you use?

With door switch>>GO TO 2. With vehicle speed>>GO TO 3.

2. STEP 2-A (WITH DOOR SWITCH)

1. Turn ignition switch from ACC to OFF position.

2. Front door switch (driver side) is ON (open) \rightarrow OFF (close) \rightarrow ON (open).

>> END

3. STEP 2-B (WITH VEHICLE SPEED)

Drive the vehicle at more than 25 km/h (16 MPH).

>> END

MEMORY STORING

< BASIC INSPECTION >

MEMORY STORING

Description

Always perform the memory storage when the battery terminal is disconnected or the driver seat control unit is replaced. The memory function will not operate normally if no memory storage is performed.

Work Procedure

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

NOTE:

If memory is stored in the same memory switch, the previous memory will be deleted.

1.STEP 1

Check the following conditions.

Ignition switch: ON

CVT shift selector: P position

>> GO TO 2.

2.STEP 2

- 1. Adjust driver seat and outside mirror position manually.
- 2. Push set switch.
 - NOTE:
 - Memory indicator for which driver seat position is already retained in memory is illuminated for 5 seconds.
 - Memory indicator for which driver seat position is not retained in memory is illuminated for 0.5 second.
- 3. Push the memory switch (1 or 2) for at least 1 second within 5 seconds after pushing the set switch. **NOTE:**
 - To enter driver seat positions into blank memory, memory indicator will be turned on for 5 seconds.
 - To modify driver seat positions, memory indicator will be turned OFF for 0.5 second, then turned ON for 5 seconds.
- 4. Confirm the operation of each part with memory operation.

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INFOID:000000007492492

INTELLIGENT KEY INTERLOCK STORING

< BASIC INSPECTION >

INTELLIGENT KEY INTERLOCK STORING

Description

INFOID:000000007492494

Always perform the Intelligent Key interlock function storage when the battery terminal is disconnected or the driver seat control unit is replaced. The Intelligent Key interlock function will not operate normally if no memory storage is performed.

Work Procedure

INFOID:000000007492495

Performing the following operation associates the registered driving position with Intelligent Key. When driver door unlock operation is performed by Intelligent Key or driver door request switch, display of the registered driving position and turnout operation can be performed.

1.STEP 1

Check the following conditions.

- Ignition switch: OFF
- Initialization: done
- Driving position: registered

>> GO TO 2.

2.STEP 2

Push set switch.
 NOTE:

Memory indicator for which driver seat position is already retained in memory is illuminated for 5 seconds.

2. Push the Intelligent Key unlock button within 5 seconds after pushing memory switch (while the memory indicator is turned ON).

NOTE:

From the time registration is performed, the applicable memory indicator blinks for 5 seconds.

3. Confirm the operation of each part with memory operation and Intelligent Key interlock operation.

>> END

SYSTEM SETTING

< BASIC INSPECTION >

SYSTEM SETTING

Description

The settings of the automatic driving positioner system can be changed, using CONSULT and the set switch. Always check the settings before and after disconnecting the battery terminal or replacing driver seat control unit.

SETTING CHANGE

		1	1	×: Applicable	
Item	Content	CONSULT	Set switch	Factory setting	
Amount of seat sliding for entry/exit assist	The amount of seat sliding for entry/exit assist can be selected from 3 items. [40 mm/80 mm/150 mm]	x	_	40 mm	
Entry/exit assist (seat)	Entry/exit assist (seat) can be selected: ON (operated) – OFF (not operated)	x	x	ON	
Work Procedure			L	NFOID:000000007492497	
1. STEP 1					(
There are three way of sett	ing method.				
Which method do you choo					ŀ
With CONSULT>>GO TO With set switch>>GO TO (
2.STEP 2-A (WITH CONS					
1. Select "Work support".	·				
Select "EXIT SEAT SLI	DE SETTING" then touch display to change bet	ween ON ar	nd OFF.		
	TTING: Entry/exit assist (seat) OLUME SET" and touch either of "40 mm", "80 i	mm", or "150) mm".		A
4. Then touch "OK".					
>> END					I
3. STEP 2-B (WITH SET S	WITCH)				
1. Turn ignition switch OF					
2. Push set switch and ho	ld for more than 10 seconds, then confirm blink	ing of the m	emory swi	itch indicator.	
	N: Memory switch indicator blink two times. F: Memory switch indicator blink once.				
·					
>> END					

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INFOID:000000007492496

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DTC/CIRCUIT DIAGNOSIS U1000 CAN COMM CIRCUIT

Description

INFOID:000000007492498

INFOID-000000007492499

CAN (Controller Area Network) is a serial communication line for real time applications. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Modern vehicle is equipped with many electronic control unit, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H-line, CAN L-line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

DTC Logic

DTC DETECTION LOGIC

DTC No.	CONSULT display description	DTC detecting condition	Possible cause
U1000	CAN COMM CIR- CUIT	 Driver seat control unit cannot communicate to other control units. When driver seat control unit cannot communicate CAN communication signal continuously for 2 seconds or more. 	CAN communication system

DTC CONFIRMATION PROCEDURE

1.STEP 1

Turn ignition switch ON and wait at least 3 seconds.

>> GO TO 2.

2.STEP 2

Check "Self diagnostic result" with CONSULT.

Is the DTC detected?

YES >> Refer to <u>ADP-44</u>, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

Refer to LAN-17, "Trouble Diagnosis Flow Chart".

Special Repair Requirement

Refer to ADP-40, "Description".

INFOID:000000007492500

INFOID:000000007492501

Revision: 2011 September

U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

U1010 CONTROL UNIT (CAN)

DTC Logic

-

DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause	(
U1010	CONTROL UNIT (CAN)	When detecting error during the initial diagnosis of CAN con- troller of driver seat control unit.	Driver seat control unit	

Diagnosis Procedure

1.REPLACE DRIVER SEAT CONTROL UNIT

When DTC [U1010] is detected, replace driver seat control unit.

>> Replace driver seat control unit. Refer to <u>ADP-103, "Removal and Installation"</u>.

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INFOID:000000007492502

INFOID:000000007492503

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Revision: 2011 September

B2112 SLIDING MOTOR

DTC Logic

INFOID:000000007492504

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON.
- 2. Check "Self diagnostic result" with CONSULT.

Is the DTC detected?

- YES >> Refer to <u>ADP-46, "Diagnosis Procedure"</u>.
- NO >> INSPECTION END

Diagnosis Procedure

1. CHECK SLIDING MOTOR CIRCUIT (POWER SHORT)

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

(+) Sliding motor		(-)	Voltage (V) (Approx.)	
Connector	Terminals		(
B561	34	Ground	0	
0001	38	Giouna	0	

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness or connector.

2.check driver seat control unit output signal

1. Connect driver seat control unit connector.

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

	(+)			
Driver seat control unit		(-)	Voltage (V)	
Connector	Terminals			
B551	34	Ground	0 – 1	
D001	38	Ground	0-1	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace driver seat control unit. Refer to <u>ADP-103. "Removal and Installation"</u>.

3.CHECK INTERMITTENT INCIDENT

Refer to GI-42, "Intermittent Incident".

>> INSPECTION END

B2113 RECLINING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

B2113 RECLINING MOTOR

DTC Logic

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DTC No.	Trouble diagnosis name	DTC dete	cting condition	Possible cause
B2113	SEAT RECLINING		unit detects the output of re- ninal for 0.1 second or more tch is not input.	 Driver seat control unit Reclining motor harness is shorted
FC CONF	IRMATION PROC	EDURE		
PERFOR	M DTC CONFIRMA	TION PROCEDURE		
۵ Check <u>the DTC d</u> ES >> F		" with CONSULT.		
iagnosis	Procedure			INF0ID:000000007492
C		CIRCUIT (POWER S		
Turn igni Disconne	ition switch OFF. ect reclining motor c	onnector and driver s	eat control unit connect onnector and ground.	or.
Check W	ollage between recir	ning motor namess c	onnector and ground.	
(+)			Voltage (V)	
	Reclining mo	Terminals	(-) (Approx	
0		35		
	B554	39	– Ground	0
ES >> C IO >> F CHECK D Connect	driver seat control u	ROL UNIT OUTPUT	SIGNAL	ound.
	(+)			
	Driver seat cont	rol unit	(-)	Voltage (V)
С	connector	Terminals	_	
	B551	35	Ground	0 – 1
		39		
′ES >> (IO >> I	tion result normal? GO TO 3. Replace driver seat on NTERMITTENT INC		ADP-103, "Removal and	d Installation".
for to OL 4	2, "Intermittent Incic	lont"		

B2128 UART COMMUNICATION LINE

Description

INFOID:000000007492508

Driver seat control unit performs UART communication with the automatic drive positioner control unit using 1 communication lines. Driver seat control unit receives the operation signals of door mirror remote control switch and the position signals of door mirror sensor from the automatic drive positioner control unit and transmits the operation request signal.

DTC Logic

INFOID:000000007492509

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON.
- 2. Check "Self diagnostic result" with CONSULT.

Is the DTC detected?

- YES >> Refer to <u>ADP-48</u>, "Diagnosis Procedure".
- NO >> INSPECTION END

Diagnosis Procedure

INFOID:000000007492510

1. CHECK UART COMMUNICATION LINE CONTINUITY

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

Driver seat	control unit	Automatic drive positioner control unit		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
B552	2	M75	8	Existed	

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

Driver seat	control unit		Continuity	
Connector	Terminal	Ground	Continuity	
B552	2		Not existed	

Is the inspection result normal?

YES >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u>.

NO >> Repair or replace harness or connector.

B2130 EEPROM

< DTC/CIRCUIT DIAGNOSIS >

B2130 EEPROM

DTC L ai

DTC Logic					
DTC DETEC	CTION LOGIC			В	
DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause	С	
B2130	EEPROM	Driver seat control unit detected CPU malfunction.	Driver seat control unit		
DTC CONFI	RMATION PROCE	DURE		D	
1.PERFORM	I DTC CONFIRMAT	ION PROCEDURE		D	
	tion switch ON. Self diagnostic result"	with CONSULT.		E	
Is the DTC detected?					
YES >> Refer to <u>ADP-49, "Diagnosis Procedure"</u> . NO >> INSPECTION END					
Diagnosis Procedure					

1.REPLACE DRIVER SEAT CONTROL UNIT

Replace driver seat control unit. Refer to ADP-103, "Removal and Installation".

>> INSPECTION END

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POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

POWER SUPPLY AND GROUND CIRCUIT DRIVER SEAT CONTROL UNIT

DRIVER SEAT CONTROL UNIT : Diagnosis Procedure

INFOID:000000007492513

NOTE:

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

1.CHECK FUSIBLE LINK

Check that the following fusible link is not fusing.

Signal name	Fusible link No.
Battery power supply	L (40 A)

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace the blown fuse after repairing affected circuit.

2.CHECK DRIVER SEAT CONTROL UNIT POWER SUPPLY

1. Turn ignition switch OFF.

- 2. Disconnect driver seat control unit connector.
- 3. Check voltage between driver seat control unit harness connector and ground.

(+	+)			
Driver seat	control unit	(-)	Voltage (V)	
Connector	Terminals			
B551	B551 33		9 – 16	

Is the inspection result normal?

YES >> GO TO 3.

NO-1 >> Repair or replace harness between driver seat control unit and fusible link L (40 A).

NO-2 >> Check circuit breaker and replace it if necessary.

3.CHECK DRIVER SEAT CONTROL UNIT GROUND CIRCUIT

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

	Driver seat	control unit		Continuity	
_	Connector Terminal		Ground	Continuity	
_	B551	43		Existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

AUTOMATIC DRIVE POSITIONER CONTROL UNIT : Diagnosis Procedure

INFOID:000000007492514

NOTE:

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

1.CHECK FUSIBLE LINK

Check that the following fusible link is not fusing.

Signal name	Fusible link No.
Battery power supply	L (40 A)

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

	POSITIONER CONTR	OL UNIT POWER SUPPL	Y
Turn ignition switch OFF. Disconnect automatic driv Check voltage between au			ctor and ground.
(+)			
Automatic drive posi	tioner control unit	(-)	Voltage (V)
Connector	Terminals		
M104	25	Ground	9 – 16
IO-2 >> Check circuit brea CHECK AUTOMATIC DRIN heck continuity between the	E POSITIONER CONTR	OL UNIT GROUND CIRCI	
Automatic drive posi	tioner control unit		
		Ground	Continuity
Connector	Terminal	Ground	,
Connector M104	Terminal 30	Ground	Existed
M104	30	Ground	
	30 ? D	Ground	
M104 the inspection result normal ES >> INSPECTION EN	30 ? D	Ground	
M104 the inspection result normal ES >> INSPECTION EN	30 ? D	Ground	
M104 the inspection result normal ES >> INSPECTION EN	30 ? D	Ground	

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SLIDING SWITCH

Component Function Check

INFOID:000000007492515

INFOID:000000007492516

1. CHECK FUNCTION

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

2. Check sliding switch signal under the following conditions.

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

Is the indication normal?

YES >> INSPECTION END NO >> Refer to <u>ADP-52, "Diagnosis Procedure"</u>.

Diagnosis Procedure

1.CHECK SLIDING SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect power seat switch connector.
- 3. Turn ignition switch ON.
- 4. Check voltage between power seat switch harness connector and ground.

	(+)			
Power s	eat switch	(-)	Voltage (V)	
Connector	Terminals			
B559	8	Ground	9 – 16	
B009	24	Ground	9 - 10	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK SLIDING SWITCH CIRCUIT

1. Turn ignition switch OFF.

2. Disconnect driver seat control unit connector.

 Check continuity between driver seat control unit harness connector and power seat switch harness connector.

Driver sea	t control unit	Power seat switch		Continuity	
Connector	Terminal	Connector Terminal		Continuity	
B552	8	B559	8	Existed	
6002	24	6339	24		

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

Driver sea	t control unit		Continuity	
Connector	Terminal	Ground		
B552	8	Ground	Not existed	
	24		NOT EXISTED	

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-103, "Removal and Installation"</u>.

SLIDING SWITCH

< DTC/CIRCUIT DIAGNOSIS >				
NO >> Repair or replace harness or c	connector.			
3.check sliding switch				A
Refer to ADP-53, "Component Inspection"				
Is the inspection result normal?				В
YES >> Check intermittent incident. Re NO >> Replace power seat switch. Re			<u>"</u> .	
Component Inspection			INFOID:00000007492517	С
1. CHECK SLIDING SWITCH				_
1. Turn ignition switch OFF.				Ľ
2. Disconnect power seat switch (sliding				
3. Check continuity between power seat	switch (sliding switch) terr	ninals under the	following conditions.	E
Power seat switch (Sliding switch)	Cons	lition	Continuity	
Terminal	Cond		Continuity	
0	Cliding switch (healsward)	Operate	Existed	F

24	- 43	Sliding switch (backward)	Operate	Existed
		Shulling Switch (backwaru)	Release	Not existed
		Sliding switch (forward)	Operate	Existed
24		Shaling Switch (Iorward)	Release	Not existed
the increation regult				

Is the inspection result normal?

YES >> INSPECTION END

>> Replace power seat switch. Refer to <u>ADP-106, "Removal and Installation"</u>. NO

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RECLINING SWITCH

Component Function Check

INFOID:000000007492518

INFOID:000000007492519

1. CHECK FUNCTION

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

2. Check reclining switch signal under the following conditions.

Monitor item	Condition		Status
RECLINE SW-FR	Reclining switch (forward)	Operate	ON
RECEINE SWITK		Release	OFF
RECLINE SW-RR	Reclining switch (backward)	Operate	ON
RECLINE SW-RR		Release	OFF

Is the indication normal?

YES >> INSPECTION END NO >> Refer to <u>ADP-54, "Diagnosis Procedure"</u>.

Diagnosis Procedure

1. CHECK RECLINING SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect power seat switch connector.
- 3. Turn ignition switch ON.
- 4. Check voltage between power seat switch harness connector and ground.

((+)			
Power seat switch		(-)	Voltage (V)	
Connector	Terminals			
B559	9	Ground	9 – 16	
B339	25	Ground	9-10	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK RECLINING SWITCH CIRCUIT

1. Turn ignition switch OFF.

2. Disconnect driver seat control unit connector.

 Check continuity between driver seat control unit harness connector and power seat switch harness connector.

Driver seat	control unit	Power seat switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B552	9	B559	9	Existed
D002	25	6339	25	LAISIEU

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

Driver se	at control unit		Continuity
Connector	Terminal	Ground	Continuity
B552	9	Ground	Not existed
B332	25		NOT EXISTED

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-103, "Removal and Installation"</u>.

RECLINING SWITCH

< DTC/CIRCUIT DIAG	NOSIS >						
NO >> Repair or re	eplace harness or cor	nnector.					
3. CHECK RECLINING	SWITCH				А		
Refer to ADP-55, "Com	ponent Inspection".						
Is the inspection result i	normal?				В		
		er to <u>GI-42, "Intermittent li</u> er to <u>ADP-106, "Removal</u>					
Component Inspec	ction			INFOID:00000007492520	С		
1.CHECK RECLINING	SWITCH						
	seat switch (reclining	switch) connector. vitch (reclining switch) ter	minals under the	following conditions.	D		
Power seat switch	(Reclining switch)	Condition		Continuity			
Terr	ninal	Condition		Continuity			
Operate Existed							
9 Reclining switch (backward) Release Not existed							
25	43	Paclining switch (forward)	Operate	Existed	G		
25 Reclining switch (forward) Release Not existed							

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to <u>ADP-106, "Removal and Installation"</u>.

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LIFTING SWITCH (FRONT)

Component Function Check

1. CHECK FUNCTION

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

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

Monitor item	Co	Condition	
LIFT FR SW-UP	Lifting switch front (up)	Operate	ON
	Lining Switch Holit (up)	Release	OFF
LIFT FR SW-DN	Lifting switch front (down)	Operate	ON
		Release	OFF

Is the indication normal?

YES >> INSPECTION END NO >> Refer to <u>ADP-56, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:000000007492522

1. CHECK LIFTING SWITCH (FRONT) INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect power seat switch connector.
- 3. Turn ignition switch ON.
- 4. Check voltage between power seat switch harness connector and ground.

(•	+)			
Power seat switch		(-)	Voltage (V)	
Connector	Terminals			
B559	10	Ground	9 – 16	
0009	26	Giouna	3-10	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK LIFTING SWITCH (FRONT) CIRCUIT

1. Turn ignition switch OFF.

2. Disconnect driver seat control unit connector.

 Check continuity between driver seat control unit harness connector and power seat switch harness connector.

Driver seat	control unit	Power seat switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B552	10	B559	10	Existed
D332	26	6339	26	LXISIEU

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

Driver seat	control unit		Continuity	
 Connector	Terminal	Ground	Continuity	
 B552	10	Ground	Not existed	
6002	26		NUL EXISIEU	

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-103, "Removal and Installation"</u>.

LIFTING SWITCH (FRONT)

< DTC/CIRCUIT DIAGNOSIS >

NO >> Repair or replace harness or cor	nnector.		
3.CHECK LIFTING SWITCH (FRONT)			А
Refer to ADP-57, "Component Inspection".			
Is the inspection result normal?			В
YES >> Check intermittent incident. Refe NO >> Replace power seat switch. Refe	er to <u>GI-42, "Intermittent Incident"</u> . er to <u>ADP-106, "Removal and Installation"</u>		
Component Inspection		INF0ID:00000007492523	С
1.CHECK LIFTING SWITCH (FRONT)			
1. Turn ignition switch OFF.			D
2. Disconnect power seat switch (lifting swi		a fallowing an ditiona	
3. Check continuity between power seat sw	vitch (lifting switch front) terminals under the second structure of the secon	ne following conditions.	Е
Power seat switch (lifting switch front)	Condition	Continuity	
Terminal	Condition	Continuity	

		Condition		Continuity	
Terr	ninal	Condition		Continuity	_
10		Lifting switch front (down)	Operate	Existed	F
10	43		Release	Not existed	_
26	45	Lifting switch front (up)	Operate	Existed	G
20		Enting Switch Hont (up)	Release	Not existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to <u>ADP-106, "Removal and Installation"</u>.

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LIFTING SWITCH (REAR)

Component Function Check

INFOID:000000007492524

1. CHECK FUNCTION

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

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

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

Is the indication normal?

YES >> INSPECTION END NO >> Refer to <u>ADP-58, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:000000007492525

1.CHECK LIFTING SWITCH (REAR) INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect power seat switch connector.
- 3. Turn ignition switch ON.
- 4. Check voltage between power seat switch harness connector and ground.

(+)		
Power se	eat switch	(-)	Voltage (V)
Connector	Terminals		
B559	11	Ground	9 – 16
6009	27	Ground	5-10

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK LIFTING SWITCH (REAR) CIRCUIT

1. Turn ignition switch OFF.

2. Disconnect driver seat control unit connector.

 Check continuity between driver seat control unit harness connector and power seat switch harness connector.

Driver seat	control unit	Power se	eat switch	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B552	11	B559	11	Existed
D332	27	6339	27	LXISIEU

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

Driver seat	t control unit		Continuity
Connector	Terminal	Ground	Continuity
B552	11	Ground	Not existed
DJJZ	27		NOT EXISTED

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-103, "Removal and Installation"</u>.

LIFTING SWITCH (REAR)

< DTC/CIRCUIT DIAGNOSIS >

N	O >> Repair or r	eplace harness or co	onnector.			
3.	CHECK LIFTING SV	VITCH (REAR)				А
Re	fer to <u>ADP-59, "Com</u>	ponent Inspection".				
<u>ls t</u>	he inspection result	normal?				В
YI N			fer to <u>GI-42, "Intermitt</u> fer to <u>ADP-106, "Rem</u>			
Со	mponent Inspe	ction			INFOID:00000007492526	С
1.	CHECK LIFTING S	VITCH (REAR)				
1. 2. 3.		seat switch (lifting sv	witch rear) connector. switch (lifting switch re	ar) terminals under th	ne following conditions.	D
_	Power seat switch	(lifting switch rear)	Con	dition	Continuity	
_	Tern	ninal			Continuity	
_	11		Lifting switch roor (down)	Operate	Existed	F
	11	40	Lifting switch rear (down)	Release	Not existed	
-		43		Operate	Existed	

Lifting switch rear (up)

Operate

Release

Is the inspection result normal?

27

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to <u>ADP-106, "Removal and Installation"</u>.

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Existed

Not existed

SEAT MEMORY SWITCH

Component Function Check

INFOID:000000007492527

1. CHECK FUNCTION

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

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

Monitor item	Cor	ndition	Status
MEMORY SW 1	Memory switch 1	Push	ON
	Memory Switch 1	Release	OFF
MEMORY SW 2	Memory switch 2	Push	ON
	Memory Switch 2	Release	OFF
SET SW	Set switch	Push	ON
SET SW	Set Switch	Release	OFF

Is the indication normal?

YES >> INSPECTION END

NO >> Refer to <u>ADP-60, "Diagnosis Procedure"</u>.

Diagnosis Procedure

1. CHECK SEAT MEMORY SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect seat memory switch connector.
- 3. Turn ignition switch ON.
- 4. Check voltage between seat memory switch harness connector and ground.

	(+) nory switch	(-)	Voltage (V)
Connector	Terminals		
	1		
D13	2	Ground	4 - 6
	3		

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK SEAT MEMORY SWITCH CIRCUIT

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

Driver sea	t control unit	Seat men	nory switch	Continuity
Connector	Terminal	Connector	Terminal	Continuity
	6		2	
B552	22	D13	1	Existed
	28		3	1

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

SEAT MEMORY SWITCH

< DTC/CIRCUIT DIAGNOSIS >

	seat control unit			Continuity
Connector	Termin	al		Continuity
	6		Ground	
B552	22			Not existed
	28			
the inspection result no	ormal?			
		Refer to ADP-103.	"Removal and In	stallation".
	lace harness or co			
.CHECK SEAT MEMO	RY SWITCH GRO	UND CIRCUIT		
heck continuity betweer	n seat memory swit	ch harness connec	tor and ground.	
Seat	memory switch			
Connector	Termin	al	Ground	Continuity
D13	4			Existed
the inspection result no	ormal?			
.CHECK SEAT MEMO	onent Inspection".			
efer to <u>ADP-61. "Compo</u> <u>the inspection result no</u> YES >> Check interm NO >> Replace seat omponent Inspect .CHECK SEAT MEMO Turn ignition switch C Disconnect seat men	onent Inspection". ormal? hittent incident. Ref t memory switch. R ion RY SWITCH DFF. hory switch connect		Removal and Insta	INFOID:00000000749
efer to <u>ADP-61. "Compo</u> <u>the inspection result no</u> YES >> Check interm NO >> Replace seat omponent Inspect .CHECK SEAT MEMO Turn ignition switch C	onent Inspection". ormal? hittent incident. Ref t memory switch. R ion RY SWITCH DFF. hory switch connect	tor.	Removal and Insta	INFOID:0000000749
efer to <u>ADP-61. "Compo</u> <u>the inspection result no</u> YES >> Check interm NO >> Replace seat omponent Inspect .CHECK SEAT MEMO Turn ignition switch C Disconnect seat men	onent Inspection". ormal? hittent incident. Ref t memory switch. R ion RY SWITCH DFF. hory switch connect ween seat memory	efer to <u>ADP-105, "F</u> tor. switch terminals ur	Removal and Insta	INFOID:0000000749
efer to <u>ADP-61. "Compo</u> <u>the inspection result no</u> YES >> Check interm NO >> Replace seat omponent Inspect .CHECK SEAT MEMO Turn ignition switch C Disconnect seat men Check continuity betw	onent Inspection". ormal? hittent incident. Ref t memory switch. R ion RY SWITCH DFF. hory switch connect ween seat memory	efer to <u>ADP-105, "F</u> tor. switch terminals ur	Removal and Insta	INFOID:0000000749
efer to <u>ADP-61. "Compo</u> <u>the inspection result no</u> YES >> Check interm NO >> Replace seat omponent Inspect .CHECK SEAT MEMO Turn ignition switch C Disconnect seat men Check continuity betw Seat memor Termin	onent Inspection". ormal? hittent incident. Ref t memory switch. R ion RY SWITCH DFF. hory switch connect ween seat memory	efer to <u>ADP-105, "F</u> tor. switch terminals ur	Removal and Insta	INFOID:0000000749
efer to <u>ADP-61. "Compo</u> <u>the inspection result no</u> YES >> Check interm NO >> Replace seat omponent Inspect .CHECK SEAT MEMO Turn ignition switch C Disconnect seat men Check continuity betw Seat memor	onent Inspection". ormal? hittent incident. Ref t memory switch. R ion RY SWITCH DFF. hory switch connect ween seat memory	efer to <u>ADP-105, "F</u> tor. switch terminals ur	Removal and Insta	conditions.
efer to <u>ADP-61. "Compo</u> <u>the inspection result no</u> YES >> Check interm NO >> Replace seat omponent Inspect .CHECK SEAT MEMO Turn ignition switch C Disconnect seat men Check continuity betw Seat memor Termir 1	onent Inspection". <u>ormal?</u> hittent incident. Ref t memory switch. R ion RY SWITCH DFF. nory switch connect ween seat memory ry switch hal	efer to <u>ADP-105, "F</u> stor. switch terminals ur <u>C</u> Memory switch 1	Aemoval and Instant	conditions.
efer to <u>ADP-61. "Compo</u> <u>the inspection result no</u> YES >> Check interm NO >> Replace seat omponent Inspect .CHECK SEAT MEMO Turn ignition switch C Disconnect seat men Check continuity betw Seat memor Termin	onent Inspection". ormal? hittent incident. Ref t memory switch. R ion RY SWITCH DFF. hory switch connect ween seat memory	efer to <u>ADP-105, "F</u> tor. switch terminals ur	nder the following ondition Push Release	INFOID:00000000745
efer to <u>ADP-61. "Compo</u> <u>the inspection result no</u> YES >> Check interm NO >> Replace seat omponent Inspect .CHECK SEAT MEMO Turn ignition switch C Disconnect seat men Check continuity betw Seat memor Termir 1	onent Inspection". <u>ormal?</u> hittent incident. Ref t memory switch. R ion RY SWITCH DFF. nory switch connect ween seat memory ry switch hal	efer to <u>ADP-105, "F</u> stor. switch terminals ur <u>C</u> Memory switch 1	Aemoval and Instant ander the following ondition Push Release Push	INFOID:00000000749

YES >> INSPECTION END

NO >> Replace seat memory switch. Refer to <u>ADP-105, "Removal and Installation"</u>.

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< DTC/CIRCUIT DIAGNOSIS >

DOOR MIRROR REMOTE CONTROL SWITCH MIRROR SWITCH

MIRROR SWITCH : Component Function Check

1.CHECK MIRROR SWITCH FUNCTION

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

Monitor item	Condition	
MIR CON SW-UP/DN	When operating the mirror switch toward the up or down side.	: ON
MIR CON SW-UP/DN	Other than the above.	: OFF
MIR CON SW-RH/LH	When operating the mirror switch toward the right or left side.	: ON
	Other than the above.	: OFF

Is the inspection result normal?

YES >> INSPECTION END

NO >> Refer to <u>ADP-62</u>, "MIRROR SWITCH : Diagnosis Procedure".

MIRROR SWITCH : Diagnosis Procedure

INFOID:000000007492531

INFOID:000000007492530

1. CHECK MIRROR SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect door mirror remote control switch connector.
- 3. Turn ignition switch ON.
- 4. Check voltage between door mirror remote control switch harness connector and ground.

(+	+)		
Door mirror remo	ote control switch	(-)	Voltage (V)
Connector	Terminal		
	4		
D14	12	Ground	4 – 6
D14	13	Ground	4 – 0
	15		

Is the inspection result normal?

- YES >> GO TO 3.
- NO >> GO TO 2.

2. CHECK MIRROR SWITCH CIRCUIT

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

Automatic drive p	ositioner control unit	Door mirror rem	ote control switch	Continuity
Connector	Terminal	Connector	Terminal	Continuity
	3		15	
M75	4	D14	13	Existed
IVI75	15	D14	12	Existed
	16		4	-

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

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		t			Continuity
Connector	Termin	al			
	3		Ground		
M75	4				Not existed
	15				
	16				
IO >> Repair or re CHECK DOOR MIRI Turn ignition switch	itomatic drive position eplace harness. ROR REMOTE CON	TROL SWIT	CH GROUND CI	RCUIT	
 Door mirre	or remote control switch				-
Connector	Termin	al	Ground		Continuity
D14	7				Existed
neck door mirror remo efer to <u>ADP-63, "MIRF</u>	ROR SWITCH : Com	ponent Inspe	<u>ction"</u> .		
IO >> Replace do IRROR SWITCH CHECK MIRROR SV Turn ignition switch	WITCH OFF. irror remote control s	ntrol switch. Ispection	tor.		INFOID:00000000
 YES >> Check inter NO >> Replace do IRROR SWITCH CHECK MIRROR SN Turn ignition switch Disconnect door mid Check continuity be 	oor mirror remote con I : Component Ir WITCH OFF. irror remote control s	ntrol switch. Ispection	tor. switch terminals		llowing conditions.
YES >> Check inter NO >> Replace do IRROR SWITCH CHECK MIRROR SN Turn ignition switch Disconnect door mi Check continuity be	oor mirror remote con I : Component Ir WITCH OFF. irror remote control s etween door mirror re	ntrol switch. Ispection	tor.		
YES >> Check inter NO >> Replace do IRROR SWITCH CHECK MIRROR SN Turn ignition switch Disconnect door mi Check continuity be Door mirror remo	oor mirror remote con I : Component Ir WITCH OFF. irror remote control s etween door mirror re	ntrol switch. Ispection	tor. switch terminals		llowing conditions.
YES >> Check inter NO >> Replace do IRROR SWITCH CHECK MIRROR SN Turn ignition switch Disconnect door mi Check continuity be	oor mirror remote con I : Component Ir WITCH OFF. irror remote control s etween door mirror re	ntrol switch. Ispection	tor. switch terminals Condition RIGHT		llowing conditions. Continuity
YES >> Check inter NO >> Replace do IRROR SWITCH CHECK MIRROR SN Turn ignition switch Disconnect door mi Check continuity be Door mirror remo Term	oor mirror remote con I : Component Ir WITCH OFF. irror remote control s etween door mirror re	ntrol switch. Ispection	tor. switch terminals Condition RIGHT	under the fo	llowing conditions. Continuity Existed
YES >> Check inter NO >> Replace do IRROR SWITCH CHECK MIRROR SN Turn ignition switch Disconnect door mi Check continuity be Door mirror remo	oor mirror remote con I : Component Ir WITCH OFF. irror remote control s etween door mirror re ote control switch ninal	atrol switch.	tor. switch terminals Condition RIGHT Other the DOWN	under the fo	Ilowing conditions. Continuity Existed Not existed
YES >> Check inter NO >> Replace do IRROR SWITCH CHECK MIRROR SN Turn ignition switch Disconnect door mi Check continuity be Door mirror remo 4	oor mirror remote con I : Component Ir WITCH OFF. irror remote control s etween door mirror re	ntrol switch. Ispection	tor. switch terminals Condition RIGHT Other the DOWN	an the above	Ilowing conditions. Continuity Existed Not existed Existed
YES >> Check inter NO >> Replace do IRROR SWITCH CHECK MIRROR SN Turn ignition switch Disconnect door mi Check continuity be Door mirror remo Term	oor mirror remote con I : Component Ir WITCH OFF. irror remote control s etween door mirror re ote control switch ninal	atrol switch.	tor. switch terminals Condition RIGHT Other the DOWN Other the LEFT	an the above	Ilowing conditions. Continuity Existed Not existed Existed Not existed
YES >> Check inter NO >> Replace do IRROR SWITCH CHECK MIRROR SN Turn ignition switch Disconnect door mi Check continuity be Door mirror remo 4	oor mirror remote con I : Component Ir WITCH OFF. irror remote control s etween door mirror re ote control switch ninal	atrol switch.	tor. switch terminals Condition RIGHT Other the DOWN Other the LEFT	an the above	Ilowing conditions. Continuity Existed Not existed Existed Not existed Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace door mirror remote control switch.

CHANGEOVER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

CHANGEOVER SWITCH : Component Function Check

INFOID:000000007492533

1.CHECK CHANGEOVER SWITCH FUNCTION

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

Monitor item	Condition	
MIR CHNG SW-R/L	When operating the changeover toward the right or left side.	: ON
	Other than the above.	: OFF

Is the inspection result normal?

YES >> INSPECTION END

NO >> Refer to <u>ADP-64</u>, "CHANGEOVER SWITCH : Diagnosis Procedure".

CHANGEOVER SWITCH : Diagnosis Procedure

INFOID:000000007492534

1.CHECK CHANGEOVER SWITCH INPUT SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect door mirror remote control switch connector.
- 3. Turn ignition switch ON.
- 4. Check voltage between door mirror remote control switch harness connector and ground.

(·	+)		
Door mirror remo	Door mirror remote control switch		Voltage (V)
Connector	Terminal		
D14	10	Ground	4 - 6
	11	Cround	4 – 0

Is the inspection result normal?

YES >> GO TO 3. NO >> GO TO 2.

2. CHECK CHANGEOVER SWITCH CIRCUIT

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

Automatic drive p	ositioner control unit	Door mirror remote control switch Connector Terminal		Continuity
Connector	Terminal			Continuity
M75	2	D14	11	Existed
WI7 5	14		10	

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

Automatic drive positioner control unit			Continuity	
Connector	Terminal	Ground	Continuity	
M75	2	Ground	Not existed	
W75	14	Not	NUL EXISTED	

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to <u>ADP-104, "Removal and Installation"</u>. NO >> Repair or replace harness.

3. check door mirror remote control switch ground circuit

1. Turn ignition switch OFF.

2. Check continuity between door mirror remote control switch harness connector and ground.

ADP-64

< DTC/CIRCUIT DIAGNOSIS >

Door mirror rem	ote control switch		Continuity
Connector	Terminal	Ground	Continuity
D14	7		Existed
Is the inspection result norm	al?		
YES >> GO TO 4.			
NO >> Repair or replac			
4. CHECK CHANGEOVER	SWITCH		
Check door mirror remote co Refer to <u>ADP-65, "CHANGE</u>		Component Inspection".	
Is the inspection result norm	<u>al?</u>		
YES >> Check intermitte NO >> Replace door m		to <u>GI-42, "Intermittent Incident"</u> . I switch.	
CHANGEOVER SWIT	CH : Compone	ent Inspection	INFOID:00000007492535
1.CHECK CHANGEOVER	SWITCH		
 Turn ignition switch OFF Disconnect door mirror r Check continuity between 	emote control swit	ich connector. ote control switch terminals under	the following conditions.
Door mirror remote cor			
		Condition	Continuity

Door millior reme	Door mirror remote control switch		Condition		
Terr	ninal	Condition		Continuity	
10			LEFT	Existed	
10	7	Changeover switch	Other than the above	Not existed	
11	I	Changeover switch	RIGHT	Existed	
			Other than the above	Not existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace door mirror remote control switch.

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POWER SEAT SWITCH GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

POWER SEAT SWITCH GROUND CIRCUIT

Diagnosis Procedure

INFOID:000000007492536

1. CHECK POWER SEAT SWITCH GROUND CIRCUIT

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

Power se	eat switch		Continuity
Connector	Terminal	Ground	Continuity
B559	43		Existed

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".
- NO >> Repair or replace harness or connector.

< DTC/CIRCUIT DIAGNOSIS >	•
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SLIDING SENSOR

Component	Function	Check
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1.CHECK FUNCTION

1. Select "SLIDE PULSE" in "Data monitor" mode with CONSULT.

2. Check sliding sensor signal under the following conditions.

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

*: The value at the seat position attained when the battery is connected is considered to be 32768.

Is the indication normal?

YES >> INSPECTION END

NO >> Refer to <u>ADP-67, "Diagnosis Procedure"</u>.

Diagnosis Procedure

1.CHECK SLIDING SENSOR SIGNAL

- 1. Turn ignition switch ON.
- 2. Check signal between driver seat control unit harness connector and ground using an oscilloscope.

(+) Driver seat control unit		(-)	Condition		(-) Cor		Signal (V) (Reference value)	I
Connector	Terminals							
B552	18	Ground	Seat sliding	Operate Other than the above	10mSec/div 10mSec/div 2V/div JMJIA0119ZZ 0 – 1 or 4 – 6	ADP K L		

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-103</u>, "<u>Removal and Installation</u>". NO >> GO TO 2.

2. CHECK SLIDING SENSOR CIRCUIT

1. Turn ignition switch OFF.

2. Disconnect driver seat control unit connector and sliding sensor connector.

Check continuity between driver seat control unit harness connector and sliding sensor harness connector.

Driver seat	Driver seat control unit		Sliding motor		P
Connector	Terminal	Connector	Terminal	Continuity	
B552	18	B561	18	Existed	-

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

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INFOID:000000007492537

SLIDING SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Driver seat	control unit		Continuity	
Connector	Terminal	Ground	Continuity	
B552	18		Not existed	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

3.CHECK SLIDING SENSOR POWER SUPPLY

- 1. Connect driver seat control unit connector.
- 2. Turn ignition switch ON.

3. Check voltage between sliding motor harness connector and ground.

((+)			
Sliding	Sliding motor		Voltage (V)	
Connector	Connector Terminals			
B561	12	Ground	9 – 16	

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4.CHECK SLIDING SENSOR POWER SUPPLY CIRCUIT

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

Driver seat	Driver seat control unit		Sliding motor		
Connector	Terminal	Connector Terminal		Continuity	
B552	12	B561	12	Existed	

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

Driver seat control unit			Continuity	
Connector	Connector Terminal		Continuity	
B552	12		Not existed	

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-103</u>, "Removal and Installation".

NO >> Repair or replace harness or connector.

5.CHECK SLIDING SENSOR GROUND CIRCUIT

1. Turn ignition switch OFF.

2. Check continuity between sliding motor harness connector and ground.

Sliding	notor		Continuity	
Connector	Connector Terminal		Continuity	
B561	43		Existed	

Is the inspection result normal?

YES >> Replace sliding motor.

NO >> Repair or replace harness or connector.

RECLIN	ING	SEN	1201	۲

Component Function Check

1.CHECK FUNCTION

1. Select "RECLN PULSE" in "Data monitor" mode with CONSULT.

2. Check reclining sensor signal under the following conditions.

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

*: The value at the seat position attained when the battery is connected is considered to be 32768.

Is the indication normal?

- YES >> INSPECTION END
- NO >> Refer to <u>ADP-69, "Diagnosis Procedure"</u>.

Diagnosis Procedure

1.CHECK RECLINING SENSOR SIGNAL

- 1. Turn ignition switch ON.
- 2. Check signal between driver seat control unit harness connector and ground using an oscilloscope.

(+		_			Signal (V)	
Driver seat	control unit	(-)	Cor	dition	(Reference value)	
Connector	Terminals				, , , , , , , , , , , , , , , , , , ,	
B552	4	Ground	Seat reclining	Operate	10mSec/div 	AD K
				Other than the above	0 – 1 or 4 – 6	

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-103, "Removal and Installation"</u>. NO >> GO TO 2.

2. CHECK RECLINING SENSOR CIRCUIT

1. Turn ignition switch OFF.

2. Disconnect driver seat control unit connector and reclining motor connector.

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

Driver sea	Driver seat control unit		Reclining motor		P
Connector	Terminal	Connector	Terminal	- Continuity	
B552	4	B554	4	Existed	-

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

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INFOID:000000007492539

RECLINING SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Driver seat	control unit		Continuity	
Connector	Terminal	Ground	Continuity	
B552	4		Not existed	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

3.CHECK RECLINING SENSOR POWER SUPPLY

1. Connect driver seat control unit connector.

2. Turn ignition switch ON.

3. Check voltage between reclining motor harness connector and ground.

	(+)		
Reclining motor		(-)	Voltage (V)
Connector	Connector Terminals		
B554	12	Ground	9 – 16

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4.CHECK RECLINING SENSOR POWER SUPPLY CIRCUIT

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

Driver seat	Driver seat control unit		Reclining motor		
Connector	Terminal	Connector Terminal		Continuity	
B552	12	B554	12	Existed	

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

Driver seat	control unit		Continuity	
Connector	Terminal	Ground	Continuity	
B552	12		Not existed	

Is the inspection result normal?

- YES >> Replace driver seat control unit. Refer to <u>ADP-103, "Removal and Installation"</u>.
- NO >> Repair or replace harness or connector.

5.check reclining sensor ground circuit

- 1. Turn ignition switch OFF.
- 2. Check continuity between reclining motor harness connector and ground.

Reclinin	ig motor		Continuity
Connector	Terminal	Ground	Continuity
B554	43		Existed

Is the inspection result normal?

YES >> Replace reclining motor.

NO >> Repair or replace harness or connector.

LIFTING SENSOR (FRONT)

Component Function Check

1.CHECK FUNCTION

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

Monitor item	Condition		Value	0
		Operate (up)	Change (increase)*	
LIFT FR PULSE	Seat lifting (front)	Operate (down)	Change (decrease)*	D
		Release	No change [*]	

*: The value at the seat position attained when the battery is connected is considered to be 32768.

Is the indication normal?

- YES >> INSPECTION END
- NO >> Refer to <u>ADP-71, "Diagnosis Procedure"</u>.

Diagnosis Procedure

1.CHECK LIFTING SENSOR (FRONT) SIGNAL

- 1. Turn ignition switch ON.
- 2. Check signal between driver seat control unit harness connector and ground using an oscilloscope.

(+	+)					
Driver seat	control unit	(-)	Co	ndition	Signal (V) (Reference value)	
Connector	Terminals				(
B552	19	Ground	Seat Lifting (front)	Operate	10mSec/div	A
				Other than the above	0 – 1 or 4 – 6	

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-103, "Removal and Installation"</u>. NO >> GO TO 2.

NO >> GO TO Z

2. CHECK LIFTING SENSOR (FRONT) CIRCUIT

1. Turn ignition switch OFF.

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

 Driver seat control unit		Lifting motor (front)		Continuity	Р
 Connector	Terminal	Connector	Terminal	Continuity	1
B552	19	B555	19	Existed	

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

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INFOID:000000007492541

LIFTING SENSOR (FRONT)

< DTC/CIRCUIT DIAGNOSIS >

Driver seat control unit			Continuity
Connector	Terminal	Ground	Continuity
B552	19		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

3.CHECK LIFTING SENSOR (FRONT) POWER SUPPLY

1. Connect driver seat control unit connector.

2. Turn ignition switch ON.

3. Check voltage between lifting motor (front) harness connector and ground.

(+)			
Lifting motor (front)		(-)	Voltage (V)
Connector	Terminals		
B555	12	Ground	9 – 16

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4.CHECK LIFTING SENSOR (FRONT) POWER SUPPLY CIRCUIT

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

Driver seat control unit		Lifting motor (front)		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
B552	12	B555	12	Existed	

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

Driver seat	control unit		Continuity	
Connector	Terminal	Ground	Continuity	
B552	12		Not existed	

Is the inspection result normal?

- YES >> Replace driver seat control unit. Refer to <u>ADP-103, "Removal and Installation"</u>.
- NO >> Repair or replace harness or connector.

${f b.}$ CHECK LIFTING SENSOR (FRONT) GROUND CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Check continuity between lifting motor (front) harness connector and ground.

 Lifting mo	otor (front)		Continuity	
 Connector	Terminal	Ground	Continuity	
 B555	43		Existed	

Is the inspection result normal?

YES >> Replace lifting motor (front).

NO >> Repair or replace harness or connector.

< DTC/CIRCUIT DIAGNOSIS >	
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LIFTING SENSOR (REAR)

Component Function Check

1.CHECK FUNCTION

1. Select "LIFT RR PULSE" in "Data monitor" mode with CONSULT.

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

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

*: The value at the seat position attained when the battery is connected is considered to be 32768.

Is the indication normal?

YES >> INSPECTION END

NO >> Refer to ADP-73, "Diagnosis Procedure".

Diagnosis Procedure

1.CHECK LIFTING SENSOR (REAR) SIGNAL

1. Turn ignition switch ON.

2. Check signal between driver seat control unit harness connector and ground using an oscilloscope.

-)					
control unit	(-)	Co	ondition		
Terminals					
20	Ground	Seat Lifting (rear)	Operate Other than the	10mSec/div 	
	control unit Terminals	control unit (-) Terminals	control unit (-) Co Terminals Seat Lifting	control unit (-) Condition Terminals (-) Operate	control unit (-) Condition Signal (V) (Reference value) 10mSec/div (rear) Seat Lifting (rear) Operate 10mSec/div (rear)

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-103, "Removal and Installation"</u>. NO >> GO TO 2.

NO >> GO IO 2

2.CHECK LIFTING SENSOR (REAR) CIRCUIT

1. Turn ignition switch OFF.

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

 connector.

Driver seat control unit		Lifting motor (rear)		Continuity	P
Connector	Terminal	Connector	Terminal	Continuity	1
B552	20	B556	20	Existed	

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

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LIFTING SENSOR (REAR)

< DTC/CIRCUIT DIAGNOSIS >

Driver seat	control unit		Continuity
Connector	Terminal	Ground	Continuity
B552	20		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

3. CHECK LIFTING SENSOR (REAR) POWER SUPPLY

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

(+)		
Lifting m	otor (rear)	(-)	Voltage (V)
Connector	Connector Terminals		
B556	12	Ground	9 – 16

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

4. CHECK LIFTING SENSOR (REAR) POWER SUPPLY CIRCUIT

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

Driver seat control unit		Lifting motor (rear)		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
B552	12	B556	12	Existed	

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

Driver seat	control unit		Continuity
Connector	Terminal	Ground	Continuity
B552	12		Not existed

Is the inspection result normal?

- YES >> Replace driver seat control unit. Refer to <u>ADP-103, "Removal and Installation"</u>.
- NO >> Repair or replace harness or connector.

5.CHECK LIFTING SENSOR (REAR) GROUND CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Check the continuity between lifting motor (rear) harness connector and ground.

 Lifting me	otor (rear)		Continuity	
 Connector	Terminal	Ground	Continuity	
 B556	43		Existed	

Is the inspection result normal?

YES >> Replace lifting motor (rear).

NO >> Repair or replace harness or connector.

_				
AIRROR SENSOR	२			
DRIVER SIDE				
ORIVER SIDE : Com	nponent Funct	tion Check		INFOID:00000007492545
.CHECK FUNCTION				
. Select "MIR/SEN LH U . Check mirror sensor (SULT.
Monitor item		Condition		Value
MIR/SEN LH U-D	Decem		3.4 [V]	e between (close to peak) (close to valley)
MIR/SEN LH R-L	Door m	irror (driver side)	0.6 [V]	e between (close to left edge) (close to right edge)
s the indication normal? YES >> INSPECTION NO >> Refer to <u>ADP</u> -	END 75, "DRIVER SIDI	E : Diagnosis Pro	ocedure".	
ORIVER SIDE : Diag	gnosis Proced	ure		INFOID:00000007492546
CHECK DOOR MIRRC	R (DRIVER SIDE)) SENSOR POW	ER SUPPLY	
 Turn ignition switch O Disconnect door mirro Turn ignition switch O 	or (driver side) con	nector.		
Check voltage betwee		ver side) harness	connector and gro	ound.
	en door mirror (driv (+)	ver side) harness		
Door mir	en door mirror (driv (+) ror (driver side)		connector and gro	voltage (V)
Door mir Connector	en door mirror (driv (+) ror (driver side) Termina		(-)	Voltage (V)
Door mir Connector D43	en door mirror (driv (+) ror (driver side) Termina 23			
Door mir Connector D43 the inspection result nor YES >> GO TO 3. NO >> GO TO 2.	en door mirror (driv (+) ror (driver side) Termina 23 rmal?	als	(-) Ground	Voltage (V) 4 – 6
Door mir Connector D43 the inspection result nor YES >> GO TO 3. NO >> GO TO 2. CHECK DOOR MIRRO . Turn ignition switch O . Disconnect automatic	en door mirror (driv (+) ror (driver side) Termina 23 rmal? DR (DRIVER SIDE) FF. drive positioner co ween automatic d) SENSOR POW	(-) Ground ER SUPPLY CIRC	Voltage (V) 4 – 6
Door mir Connector D43 the inspection result nor YES >> GO TO 3. NO >> GO TO 2. CHECK DOOR MIRRC Turn ignition switch O Disconnect automatic Check continuity betw	en door mirror (driv (+) ror (driver side) Termina 23 rmal? OR (DRIVER SIDE) FF. drive positioner co ween automatic d connector.) SENSOR POW ontrol unit connect rive positioner c	(-) Ground ER SUPPLY CIRC	Voltage (V) 4 – 6
Door mir Connector D43 the inspection result nor YES >> GO TO 3. NO >> GO TO 2. CHECK DOOR MIRRO Turn ignition switch O Disconnect automatic Check continuity betw (driver side) harness of	en door mirror (driv (+) ror (driver side) Termina 23 rmal? OR (DRIVER SIDE) FF. drive positioner co ween automatic d connector.) SENSOR POW ontrol unit connect rive positioner c	(-) Ground ER SUPPLY CIRC	Voltage (V) 4-6
Door mir Connector D43 the inspection result nor YES YES Solution of the inspection result nor YES YES Solution of the inspection result nor YES YES <	en door mirror (driv (+) ror (driver side) Termina 23 rmal? OR (DRIVER SIDE) FF. drive positioner co ween automatic d connector. oner control unit Terminal 21) SENSOR POW ontrol unit connector poor n Connector D43	(-) Ground ER SUPPLY CIRC etor. ontrol unit harnes nirror (driver side) Termina 23	Voltage (V) 4-6 CUIT SS connector and door mirror Continuity Existed
Door mir Connector D43 the inspection result nor YES YES > GO TO 3. NO > GO TO 2. CHECK DOOR MIRRO Disconnect automatic Check continuity betw (driver side) harness of Automatic drive position M75 Check continuity betw	en door mirror (driv (+) ror (driver side) Termina 23 rmal? PR (DRIVER SIDE) FF. drive positioner co ween automatic drive connector. poner control unit Terminal 21 reen automatic drive) SENSOR POW ontrol unit connect rive positioner c Door n Connector D43 /e positioner cont	(-) Ground ER SUPPLY CIRC etor. ontrol unit harnes nirror (driver side) Termina 23	Voltage (V) 4-6 CUIT SS connector and door mirror Continuity Existed
Door mir Connector D43 the inspection result nor YES >> GO TO 3. NO >> GO TO 2. CHECK DOOR MIRRO Turn ignition switch O Disconnect automatic Check continuity betw (driver side) harness of Automatic drive position Connector M75 Check continuity betw Automatic drive	en door mirror (driv (+) ror (driver side) Termina 23 rmal? DR (DRIVER SIDE) FF. drive positioner co ween automatic do connector. Distributioner control unit Terminal 21 reen automatic drive positioner control unit) SENSOR POW ontrol unit connector positioner c Door n Connector D43 /e positioner conf	(-) Ground ER SUPPLY CIRC etor. ontrol unit harnes nirror (driver side) Termina 23 trol unit harness co	Voltage (V) 4-6 CUIT SS connector and door mirror Continuity Existed
Door min Connector D43 the inspection result nor YES YES > GO TO 3. NO >> GO TO 2. CHECK DOOR MIRRO Disconnect automatic Check continuity betw (driver side) harness of Automatic drive position M75 . Check continuity betw	en door mirror (driv (+) ror (driver side) Termina 23 rmal? PR (DRIVER SIDE) FF. drive positioner co ween automatic drive connector. poner control unit Terminal 21 reen automatic drive) SENSOR POW ontrol unit connector positioner c Door n Connector D43 /e positioner conf	(-) Ground ER SUPPLY CIRC etor. ontrol unit harnes nirror (driver side) Termina 23	Voltage (V) 4 - 6 CUIT Se connector and door mirror Continuity Existed Dnnector and ground.

YES >> Replace automatic drive positioner control unit. Refer to <u>ADP-104</u>, "<u>Removal and Installation</u>". NO >> Repair or replace harness or connector.

MIRROR SENSOR

< DTC/CIRCUIT DIAGNOSIS >

3. check door mirror (driver side) sensor ground circuit

- 1. Turn ignition switch OFF.
- 2. Disconnect automatic drive positioner control unit connector.
- 3. Check continuity between automatic drive positioner control unit harness connector and door mirror (driver side) harness connector.

Automatic drive po	Automatic drive positioner control unit		Door mirror (driver side)	
Connector	Terminal	Connector	Terminal	Continuity
M75	20	D43	24	Existed

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

Automatic drive po	sitioner control unit		Continuity	
 Connector	Terminal	Ground	Continuity	
 M75	20		Not existed	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness or connector.

4.CHECK DOOR MIRROR (DRIVER SIDE) SENSOR CIRCUIT

1. Check continuity between automatic drive positioner control unit harness connector and door mirror (driver side) harness connector.

Automatic drive po	sitioner control unit	Door mirror	Door mirror (driver side)		
Connector	Terminal	Connector	Terminal	Continuity	
M75	6	D43	21	Existed	
C / IVI	18	D43	22	EXISIED	

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

Automatic drive po	sitioner control unit		Continuity
Connector	Terminal	Ground	Continuity
M75	6	Ground	Not existed
10175	18		Not existed

Is the inspection result normal?

YES >> Replace door mirror sensor (built in driver side door mirror).

NO >> Repair or replace harness or connector.

PASSENGER SIDE

PASSENGER SIDE : Component Function Check

INFOID:000000007492547

1.CHECK FUNCTION

1. Select "MIR/SEN RH U-D", "MIR/SEN RH R-L" in "Data monitor" with CONSULT.

2. Check the mirror sensor (passenger side) signal under the following conditions.

Monitor item	Condition	Value
MIR/SEN RH U-D	Deer mirrer (neesenger side)	Change between 3.4 [V] (close to peak) 0.6 [V] (close to valley)
MIR/SEN RH R-L	 Door mirror (passenger side) 	Change between 3.4 [V] (close to left edge) 0.6 [V] (close to right edge)

Is the indication normal?

YES >> INSPECTION END

MIRROR SENSOR

	<u>P-77, "PASSENGER</u>	-		
ASSENGER SIDE	= : Diagnosis Pr	rocedure		INFOID:0000000749254
CHECK DOOR MIRF	ROR SENSOR (PAS	SENGER SIDE) PO	WER SUPPLY	
Turn ignition switch	rror (passenger side)		s connector and gr	ound.
	(+)			
Door mir	rror (passenger side)		(-)	Voltage (V)
Connector	Termina	ls		
D3	23		Ground	4 - 6
	OFF. tic drive positioner cc tween automatic driv	ontrol unit connector		CUIT ector and door mirror (pas
Automatic drive pos	sitioner control unit	Door mirror (passenger side)	
Automatic drive pos	sitioner control unit Terminal	Door mirror (Connector	passenger side) Terminal	Continuity
Connector M75	Terminal 21	Connector D3	Terminal 23	Existed
Connector M75 Check continuity be	Terminal 21	Connector D3 ve positioner control	Terminal 23	Existed
Connector M75 Check continuity be Automatic dri Connector M75 the inspection result n	Terminal 21 tween automatic driv ive positioner control unit Termina 21 normal?	Connector D3 ve positioner control	Terminal 23 unit harness conne Ground	Existed ector and ground. Continuity Not existed
Connector M75 Check continuity be Automatic dri Connector M75 the inspection result n (ES >> Replace aut IO >> Repair or re CHECK DOOR MIRF Turn ignition switch Disconnect automat	Terminal 21 tween automatic driv ive positioner control unit Termina 21 normal? tomatic drive position place harness or cor ROR (PASSENGER S OFF. tic drive positioner co tween automatic driv	Connector D3 /e positioner control	Terminal 23 unit harness conne Ground er to ADP-104. "Rer OUND CIRCUIT	Existed ector and ground. Continuity
Connector M75 Check continuity be Automatic dri Connector M75 the inspection result r (ES >> Replace aut IO >> Repair or re CHECK DOOR MIRF Turn ignition switch Disconnect automat Check continuity be senger side) connect	Terminal 21 tween automatic driv ive positioner control unit Termina 21 normal? tomatic drive position place harness or cor ROR (PASSENGER S OFF. tic drive positioner co tween automatic driv ctor.	Connector D3 ve positioner control al ner control unit. Refe nnector. SIDE) SENSOR GR ontrol unit connector ve positioner control	Terminal 23 unit harness conne Ground er to ADP-104. "Rer OUND CIRCUIT unit harness conne	Existed ector and ground. Continuity Not existed moval and Installation".
Connector M75 Check continuity be Automatic dri Connector M75 the inspection result r (ES >> Replace aut IO >> Repair or re CHECK DOOR MIRF Turn ignition switch Disconnect automat Check continuity be	Terminal 21 tween automatic driv ive positioner control unit Termina 21 normal? tomatic drive position place harness or cor ROR (PASSENGER S OFF. tic drive positioner co tween automatic driv ctor.	Connector D3 ve positioner control al ner control unit. Refe nnector. SIDE) SENSOR GR ontrol unit connector ve positioner control	Terminal 23 unit harness conne Ground er to ADP-104. "Rer OUND CIRCUIT	Existed ector and ground. Continuity Not existed moval and Installation".
Connector M75 Check continuity be Automatic dri Connector M75 the inspection result r (ES >> Replace aut IO >> Repair or re CHECK DOOR MIRF Turn ignition switch Disconnect automat Check continuity be senger side) connect	Terminal 21 tween automatic driv ive positioner control unit Termina 21 tomatic drive position place harness or cor ROR (PASSENGER S OFF. tic drive positioner co tween automatic driv ctor.	Connector D3 /e positioner control al ner control unit. Refennector. SIDE) SENSOR GR ontrol unit connector. /e positioner control	Terminal 23 unit harness conne Ground er to ADP-104. "Rer OUND CIRCUIT unit harness conne passenger side)	Existed ector and ground. Continuity Not existed moval and Installation".
Connector M75 Check continuity be Automatic dri Connector M75 the inspection result r (ES >> Replace aut IO >> Repair or re CHECK DOOR MIRF Turn ignition switch Disconnect automat Check continuity be senger side) connect Automatic drive pos Connector M75	Terminal 21 tween automatic driv ive positioner control unit Termina 21 normal? tomatic drive position place harness or cor ROR (PASSENGER S OFF. tic drive positioner co tween automatic driv ctor. sitioner control unit Terminal	Connector D3 /e positioner control al ner control unit. Refennector. SIDE) SENSOR GR ontrol unit connector. /e positioner control Door mirror (Connector D3	Terminal 23 unit harness conne Ground er to ADP-104, "Ren OUND CIRCUIT unit harness conne passenger side) Terminal 24	Existed ector and ground. Continuity Not existed moval and Installation". Ector and door mirror (pas Continuity Existed
Connector M75 Check continuity be Automatic dri Connector M75 the inspection result r (ES >> Replace aut IO >> Repair or re CHECK DOOR MIRF Turn ignition switch Disconnect automat Check continuity be senger side) connect Automatic drive pos Connector M75 Check continuity be	Terminal 21 tween automatic driv ive positioner control unit Termina 21 100rmal? tomatic drive positioner place harness or cor ROR (PASSENGER S OFF. tic drive positioner co tween automatic driv ctor. sitioner control unit Terminal 20	Connector D3 /e positioner control al ner control unit. Refennector. SIDE) SENSOR GR ontrol unit connector. /e positioner control Door mirror (Connector D3	Terminal 23 unit harness conne Ground er to ADP-104, "Ren OUND CIRCUIT unit harness conne passenger side) Terminal 24	Existed Ector and ground. Continuity Not existed moval and Installation".
Connector M75 Check continuity be Automatic dri Connector M75 the inspection result r (ES >> Replace aut IO >> Repair or re CHECK DOOR MIRF Turn ignition switch Disconnect automat Check continuity be senger side) connect Automatic drive pos Connector M75 Check continuity be	Terminal 21 tween automatic driv ive positioner control unit Termina 21 tomatic drive position place harness or cor ROR (PASSENGER S OFF. tic drive positioner co tween automatic driv ctor. sitioner control unit Terminal 20 tween automatic driv	Connector D3 /e positioner control al ner control unit. Refenector. SIDE) SENSOR GR ontrol unit connector. /e positioner control Door mirror (Connector D3 /e positioner control	Terminal 23 unit harness conne Ground er to ADP-104, "Ren OUND CIRCUIT unit harness conne passenger side) Terminal 24	Existed ector and ground. Continuity Not existed moval and Installation". Ector and door mirror (pas Continuity Existed

Revision: 2011 September

MIRROR SENSOR

< DTC/CIRCUIT DIAGNOSIS >

4. CHECK DOOR MIRROR (PASSENGER SIDE) SENSOR CIRCUIT

1. Check continuity between automatic drive positioner control unit harness connector and door mirror (passenger side) harness connector.

Automatic drive po	sitioner control unit	Door mirror (passenger side) Connector Terminal		Continuity
Connector	Terminal			Continuity
M75	5	D3	21	Existed
1017.5	17	60	22	LASIEU

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

Automatic drive p	ositioner control unit		Continuity
Connector	Terminal	Ground	Conunaity
M75	5	Ground	Not existed
1017 5	17		NOT EXISTED

Is the inspection result normal?

YES >> Replace door mirror sensor (built in passenger side door mirror).

NO >> Repair or replace harness or connector.

SLIDING MOTOR

Component Function Check Description 1. CHECK FUNCTION 1. Select "SEAT SLIDE" in "Active test" mode with CONSULT. 2. Check the sliding motor operation. Image: Sear SLIDE in "Active test" mode with CONSULT. 2. Check the sliding motor operation. Image: Sear SLIDE in "Active test" mode with CONSULT. 3. Stop Image: Sear SLIDE in "Active test" mode with CONSULT. Stop Image: Star SLIDE in "Active test" mode with CONSULT. Stop Image: Star SLIDE in "Active test" ("SEAT SLIDE in "Active test" ("SEAT SLIDE in "Active test" ("SEAT SLIDE") with CONSULT. Stat Star Science in the star science in th				IS >		DTC/CIRCUIT DIAG
1. Select "SEAT SLIDE" in "Active test" mode with CONSULT. 2. Check the sliding motor operation. Test item Description SEAT SLIDE FR Seat sliding RR Backward Bs the operation of relevant parts normal? Provard YES >> INSPECTION END NO >> Refer to ADP-79. "Diagnosis Procedure". Diagnosis Procedure wrease 1. CHECK SLIDING MOTOR INPUT SIGNAL 1. Turn ignition switch OFF. Disonnect sliding motor connector. 3. Turn ignition switch ON. Perform "Active test" ("SEAT SLIDE") with CONSULT. 5. Check voltage between sliding motor harness connector and ground. Image: Connector Terminals (+) Condition Voltage (Stiding motor (-) Condition Voltage (Is the inspection result normal? YES >> Replace sliding motor (built in seat slide cushion frame). NO NO >> GO TO 2. SEAT SLIDE OFF 0-1 Is the inspection result normal? YES >> Replace sliding motor (built in seat slide cushion frame). NO >> GO TO 2.	 INFOID:00000007492549			Check	ction	omponent Func
2. Check the sliding motor operation. Test item Description SEAT SLIDE FR RR Seat sliding Proward Backward Is the operation of relevant parts normal? YES YES >INSPECTION END NO >> Refer to ADP-79. "Diagnosis Procedure". Diagnosis Procedure Immonsoi 1. CHECK SLIDING MOTOR INPUT SIGNAL Immonsoit on switch OFF. 2. Disconnect sliding motor connector. Turn ignition switch ON. 4. Perform "Active test" ("SEAT SLIDE") with CONSULT. Condition 5. Check voltage between sliding motor harness connector and ground. Immonsoin Voltage (Connector Terminals OFF 0-1 B561 34 Ground SEAT SLIDE OFF 0-1 Is the inspection result normal? YES >> Replace sliding motor (built in seat slide cushion frame). NO >> GO TO 2. 2. CHECK SLIDING MOTOR CIRCUIT 1 Turn ignition switch OFF. 0 1 1. Turn ignition switch OFF. 2 Disconnect driver seat control unit connector. 3 Check continuity between driver seat control unit tonnector. 3. Check cubinu	E				N	CHECK FUNCTION
SEAT SLIDE OFF FR Seat sliding Stop Forward Is the operation of relevant parts normal? YES >> INSPECTION END NO >> Refer to ADP-79. "Diagnosis Procedure". Diagnosis Proceedure ####################################		NSULT.	de with CO			
SEAT SLIDE OFF FR Seat sliding Stop Forward Is the operation of relevant parts normal? YES >> INSPECTION END NO >> Refer to ADP-79, "Diagnosis Procedure". Diagnosis Procedure ####################################	Description			item	Test	
RR Backward St the operation of relevant parts normal? YES >> INSPECTION END NO >> Refer to ADP-79. "Diagnosis Procedure". Diagnosis Procedure ####################################						
s the operation of relevant parts normal? YES >> INSPECTION END NO >> Refer to ADP-79. "Diagnosis Procedure". Diagnosis Procedure neromotol .CHECK SLIDING MOTOR INPUT SIGNAL . .CHECK SLIDING MOTOR INPUT SIGNAL . .CHECK SLIDING MOTOR INPUT SIGNAL. . .CHECK SLIDING motor connector. . .Turn ignition switch OFF. Disconnect sliding motor connector. .Turn ignition switch ON. Perform "Active test" ("SEAT SLIDE") with CONSULT. . Check voltage between sliding motor harness connector and ground. .	Forward	Seat sliding		FR		SEAT SLIDE
YES >> INSPECTION END NO >> Refer to <u>ADP-79</u> , "Diagnosis Procedure". Diagnosis Procedure	Backward			RR		
.CHECK SLIDING MOTOR INPUT SIGNAL . Turn ignition switch OFF. Turn ignition switch ON. Perform "Active test" ("SEAT SLIDE") with CONSULT. . Check voltage between sliding motor harness connector and ground. (+) Sliding motor (-) Connector 1 B561 34 Ground SEAT SLIDE OFF 0-1 B561 38 Ground SEAT SLIDE OFF 0-1 Backward 9-16 0 0 State inspection result normal? YES YES > Replace sliding motor (built in seat slide cushion frame). NO > GO TO 2. CHECK SLIDING MOTOR CIRCUIT . Turn ignition switch OFF. Disconnect driver seat control unit connector. B5c1 34 B551 34 B551 34 B561 34			ocedure".	ND	ION EI	ES >> INSPECTI
Turn ignition switch OFF. Disconnect sliding motor connector. Turn ignition switch ON. Perform "Active test" ("SEAT SLIDE") with CONSULT. Check voltage between sliding motor harness connector and ground. (+) Condition Sliding motor (-) Connector Terminals 34 Ground B561 34 Ground SEAT SLIDE OFF 0-1 Backward 9-16 OFF 0-1 Forward 9-16 Stelling motor (built in seat slide cushion frame). NO NO >> GO TO 2. CHECK SLIDING MOTOR CIRCUIT Turn ignition switch OFF. Disconnect driver seat control unit connector. Check continuity between driver seat control unit harness connector and sliding motor harness control unit connector. Disconnect driver seat control unit 38 Sliding motor Oriver seat control unit Sl	INFOID:00000007492550				dure	agnosis Procec
 Disconnect sliding motor connector. Turn ignition switch ON. Perform "Active test" ("SEAT SLIDE") with CONSULT. Check voltage between sliding motor harness connector and ground. (+) (+) Condition Voltage (Sliding motor (-) Condition Voltage ((-) Condition Voltage (Voltage ((-) Ground SEAT SLIDE OFF 0-1 Backward 9-16 OFF 0-1 OFF 0-1 sthe inspection result normal? YES >> Replace sliding motor (built in seat slide cushion frame). NO >> GO TO 2. CHECK SLIDING MOTOR CIRCUIT . Turn ignition switch OFF. Disconnect driver seat control unit connector. Connector trainal Continuity Driver seat control unit Sliding motor <td< td=""><td></td><td></td><td>AL.</td><td>R INPUT SIGN</td><td>ИОТОР</td><td>CHECK SLIDING M</td></td<>			AL.	R INPUT SIGN	ИОТОР	CHECK SLIDING M
$\begin{tabular}{ c c c c c c } \hline Sliding motor & (-) & Condition & Voltage ($	d.			r connector. EAT SLIDE") w	g motor ch ON. est" ("S	Disconnect sliding Turn ignition switcl Perform "Active tes
Connector Terminals OFF 0-1 34 Ground SEAT SLIDE Backward 9-16 38 Ground SEAT SLIDE OFF 0-1 Backward 9-16 OFF 0-1 Backward 9-16 OFF 0-1 Backward 9-16 OFF 0-1 Backward 9-16 OFF 0-1 Boot Sente inspection result normal? Forward 9-16 YES >> Replace sliding motor (built in seat slide cushion frame). NO >> GO TO 2. NO >> GO TO 2. CHECK SLIDING MOTOR CIRCUIT CHECK SLIDING MOTOR CIRCUIT . Turn ignition switch OFF. Disconnect driver seat control unit connector. Check continuity between driver seat control unit harness connector and sliding motor harness control unit Driver seat control unit Sliding motor Continuity B551 34 B561 34 B551 34 B561 38						(+)
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	ndition Voltage (V)	Condi	(-)		notor	Sliding mo
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	OFF 0-1			ninals	Term	Connector
B561GroundSEAT SLIDEOFF0-138 38 OFF 0-1Forward9-160 the inspection result normal?YES>> Replace sliding motor (built in seat slide cushion frame).NO>> GO TO 2.CHECK SLIDING MOTOR CIRCUITTurn ignition switch OFF.Disconnect driver seat control unit connector.Check continuity between driver seat control unit harness connector and sliding motor harness co $\overline{Driver seat control unitSliding motor\overline{Driver seat control unitSliding motor\overline{S51}3434363838$	0-1	_		34	3	
38 Forward 9 – 16 Forward 9 – 16 Tele inspection result normal? YES >> Replace sliding motor (built in seat slide cushion frame). NO >> GO TO 2. CHECK SLIDING MOTOR CIRCUIT CHECK SLIDING MOTOR CIRCUIT . Turn ignition switch OFF. . Disconnect driver seat control unit connector. Contector and sliding motor harness co Driver seat control unit Sliding motor Continuity Driver seat control unit Sliding motor Continuity 34 34 Existed 38 38 38 Existed		SEAT SLIDE	Ground	(B561
YES >> Replace sliding motor (built in seat slide cushion frame). NO >> GO TO 2. CHECK SLIDING MOTOR CIRCUIT . Turn ignition switch OFF. Disconnect driver seat control unit connector. Check continuity between driver seat control unit harness connector and sliding motor harness co Driver seat control unit Sliding motor Connector Terminal Connector Terminal 34 B561 38 B561		_		38	3	
ConnectorTerminalConnectorTerminalContinuityB55134B56134Existed	r and sliding motor harness connector.		ector.	R CIRCUIT	NOTOF	ES >> Replace sl O >> GO TO 2. CHECK SLIDING M Turn ignition switch Disconnect driver s
ConnectorTerminalConnectorTerminalContinuityB55134B56134Existed		Sliding motor		ol unit	at contro	Driver sea
B551 B561 Existed	Terminal Continuity	_	Conr			
38 38		1	Pt	34		R551
. Check continuity between driver seat control unit harness connector and ground.	38					
	r and ground.	rness connector a	ntrol unit h	en driver seat co	oetwee	Check continuity b
Driver seat control unit Continuity	Continuity			control unit	ver seat	Driv
Connector Terminal Ground		Ground	al			Connector
B551 38 Not existed						B551

Is the inspection result normal?

SLIDING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

- YES >> Replace driver seat control unit. Refer to <u>ADP-103</u>, "Removal and Installation".
- NO >> Repair or replace harness or connector.

RECLINING MOTOR

DTC/CIRCUIT DIA									
component Fur			k						INFOID:000000007492551
.CHECK FUNCTION	NC								
. Select "SEAT RI . Check the reclin				st" mode v	with CONSL	JLT.			
	Test	item					Desc	ription	
		OFF						Stop	
SEAT RECLINING		FR			Seat reclini	Seat reclining Forward		Forward	
		RR						Backwai	ď
the operation of re YES >> INSPEC NO >> Refer to	TION EI	ND		ocedure".					
iagnosis Proce	edure								INFOID:000000007492552
.CHECK RECLINI	NG MO ⁻		IPUT SIG	SNAL					
 Turn ignition swi Disconnect recli Turn ignition swi Perform "Active Check voltage b 	ning mot tch ON. test" ("S	tor con EAT RI	ECLININ			nd gro	ound.		
(+))								
Reclining	notor		(-)		Con	dition		Voltage (V)
Connector	Termir	nals					1		
	35						OFF		0 – 1
B554			Gro	und	SEAT RECLIN	NING	Forward OFF		9-16
	39						Backward		0 – 1 9 – 16
the inspection res	ult norm	al?					Dackward		3 - 10
 (ES >> Replace NO >> GO TO 2 CHECK RECLINI Turn ignition swi Disconnect drive 	reclining 2. NG MO ⁻ tch OFF er seat c	g moto TOR C ontrol u	IRCUIT	ector.		nnect	or and rec	lining mo	otor harness connec-
Driver s	eat contro	ol unit			Reclinir	ng mot	or		Continuity
Connector		Termi	nal	Con	nector		Terminal		Continuity
B551		35 39		В	3554		35 39		Existed
Check continuity	/ betwee	n drive	r seat co	ntrol unit l	harness cor	nnect	or and gro	und.	
Г	Driver seat	control	unit						
Connector			Termina	al	-	_			Continuity
			35		-	Ground	d		
B551			39		-				Not existed

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

- YES >> Replace driver seat control unit. Refer to <u>ADP-103</u>, "Removal and Installation".
- NO >> Repair or replace harness or connector.

< DTC/CIRCUIT				FOR (FR	ON.	Т)		
LIFTING MC								
Component F		,						INFOID:000000007492553
1.CHECK FUNC	CTION							
		R" in "Active tes front) operation.		ith CONSU	ILT.			
		t item				Doso	ription	
	165	OFF				Desc	Stop	
SEAT LIFTER FI	ર	UP		Seat lifting	(front)		Upward	
		DWN		-	. ,		Downwar	d
Is the operation of	of relevant p	parts normal?						
	PECTION E r to <u>ADP-8</u>	ND 3. "Diagnosis Pr	ocedure".					
Diagnosis Pr	ocedure							INFOID:000000007492554
1.CHECK LIFTI	NG MOTO	R (FRONT) INPL	JT SIGNA	L				
 Turn ignition Perform "Act 	fting motor switch ON. ive test" ("S	(front) connecto	R") with CC	DNSULT. s connecto	or and	ground.		
	(+)				•			
Lifting n	notor (front) Termin	(-)			Cor	dition		Voltage (V)
Connector	Termin					OFF		0 – 1
	36				Downward			9 – 16
B555		Grou	ind S	EAT LIFTER	FR	OFF		0 – 1
	40					Upward		9 – 16
NO >> GO T 2.CHECK LIFTI 1. Turn ignition 2. Disconnect of	ace lifting n ГО 2. NG MOTOI switch OFF Iriver seat c	notor (front) (buil R (FRONT) CIR(CUIT ector.			or and liftir	ng motor	(front) harness con-
Driv	ver seat contro	ol unit		Lifting mo	otor (fr	ont)		Continuity
Connector	-	Terminal	Con	nector		Terminal		Continuity
B551		36 40	B	555		36 40		Existed
4. Check contin	uity betwee	en driver seat co	ntrol unit h	narness cor	nnect	-	und.	
	Driver sea	t control unit						
Conne		Termina	al	-	~			Continuity
B55	1	36		-	Groun	d		Not ovietod
000	1	40						Not existed

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

- YES >> Replace driver seat control unit. Refer to <u>ADP-103</u>, "Removal and Installation".
- NO >> Repair or replace harness or connector.

	C/CIRCUIT DIAG		TING MO	TOR (RE	EAR)			
	ponent Funct	, , ,						INFOID:000000007492555
	IECK FUNCTION							
1. S	elect "SEAT LIFT	ER RR" in "Active to otor (rear) operation		ith CONSU	LT.			
		Test item				Desc	ription	
		OFF					Stop	
SE	AT LIFTER RR	UP		Seat lifting (rear)		Upward	
		DWN					Downward	t c
YES NO Diag	>> Refer to AL nosis Proced	ON END OP-85, "Diagnosis I						INFOID:000000007492556
2. D 3. Tu 4. P	urn ignition switch erform "Active tes heck voltage betw	otor (rear) connect	RR") with CO		and g	round.		
	(+) Lifting motor ((rear)	(-)		Con	dition		Voltage (V)
	Connector	Terminals	(-)		Con	anion		voltage (v)
						OFF		0 – 1 A
	DEEC	41	One of			Upward		9 – 16
	B556	42	Ground	SEAT LIFTE	SEAT LIFTER RR OFF	OFF		0 – 1
		42				Downwa	rd	9 – 16
YES NO 2.CH 1. Tr 2. D 3. C	>> GO TO 2. IECK LIFTING MO urn ignition switch visconnect driver s	DTOR (REAR) CIR OFF. eat control unit cor	CUIT			r and lifti	ng motor	(rear) harness con-
	Driver seat	control unit		Lifting mo	otor (rea	r)		Continuity
	Connector	Terminal	Con	nector		Terminal		Continuity
	B551	41 42	— В	556 -		41 42		Existed
4. C	heck continuity be	etween driver seat of	control unit h	narness con	nector		und.	
	Drive	er seat control unit						
	Connector	Term	inal	-				Continuity
	B551	4		- (Ground		1	Not existed
			-					

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

- YES >> Replace driver seat control unit. Refer to <u>ADP-103</u>, "Removal and Installation".
- NO >> Repair or replace harness or connector.

< DTC/CIRCU	IT DIAGNO	SIS >				
DOOR MIR	RROR M	OTOR				^
Component	Function	Check			INFOID:000000007492557	A
1.CHECK DO	OR MIRROI		UNCTION			В
Check the ope CONSULT	ration with "	MIRROR MC	DTOR RH" and "MIRROR MO	DTOR LH" in "ACTIVE	TEST" mode with	
Refer to <u>ADP-2</u>						С
Is the inspectio						
	SPECTION		s Procedure".			D
Diagnosis P	rocedure	-			INFOID:000000007492558	
						E
1.CHECK DO			IPUT SIGNAL			
	on switch OF t door mirror					_
	on switch ON		harness connector and grou	ad		F
4. Check volt	age betweet		namess connector and group	nu.		
	+)					G
Door	mirror	(-)	Condition	n	Voltage (V)	
Connector	Terminals					Н
	10			DOWN / RIGHT	9 – 16	
		-		Other than the above	0 - 1	I
D43	11	Ground	Door mirror remote control switch	LEFT Other than the above	9 – 16	1
		-		UP	9 – 16	
	10			-		ADF

[Passenger side]

(-	+)					
Door	mirror	(-)	Condition	า	Voltage (V)	
Connector	Terminals					
	10			DOWN / RIGHT	9 – 16	
	10			Other than the above	0 - 1	
20	11	Cround	Door mirror romate control quitab	LEFT	9 – 16	
D3	11	Ground	Door mirror remote control switch	Other than the above	0 – 1	
	10			UP	9 – 16	
	12			Other than the above	0 - 1	

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK DOOR MIRROR MOTOR CIRCUIT

12

Turn ignition switch OFF. 1.

Disconnect automatic drive positioner control unit connector. 2.

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

0 – 1

Other than the above

ADP

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DOOR MIRROR MOTOR

< DTC/CIRCUIT DIAGNOSIS >

[Driver side]				
Automatic drive pos	sitioner control unit	Door	mirror	Continuity
Connector	Terminal	Connector	Terminal	Continuity
	12		10	
M75	23	D43	12	Existed
	24	_	11	-
[Passenger side]				
Automatic drive po	sitioner control unit	Door	mirror	Continuity
Connector	Terminal	Connector	Terminal	Continuity
	10		12	
M75	11	D3	11	Existed
	22	-	10	

Check continuity between automatic drive positioner control unit harness connector and ground. 4. [Driver side]

Automatic drive po	Automatic drive positioner control unit		Continuity
Connector	Terminal	Continuity	Continuity
	12	Ground	
M75	23	_	Not existed
	24	_	

[]			
Automatic drive positioner control unit			Continuity
Connector	Terminal		Continuity
	10	Ground	
M75	11		Not existed
	22		

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to <u>ADP-104, "Removal and Installation"</u>. NO

>> Repair or replace harness or connector.

3.CHECK DOOR MIRROR MOTOR

Check door mirror motor.

Refer to ADP-88, "Component Inspection".

Is the inspection result normal?

- YES >> Check intermittent incident.Refer to GI-42, "Intermittent Incident".
- NO >> Replace door mirror motor.

Component Inspection

INFOID:000000007492559

1.CHECK DOOR MIRROR MOTOR 1

Check that door mirror motor does not trap foreign objects and does not have any damage. Refer to MIR-25, "Exploded View".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace door mirror.

2. CHECK DOOR MIRROR MOTOR 2

1. Turn ignition switch OFF.

Disconnect door mirror connector. 2.

Apply 12 V to each power supply terminal of door mirror motor terminals. 3.

ADP-88

DOOR MIRROR MOTOR

< DTC/CIRCUIT DIAGNOSIS >

A			Door mirror
	Operational direction	Terminal	
_		(-)	(+)
B	RIGHT	11	10
_	LEFT	10	11
C	UP	10	12
	DOWN	12	10

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace door mirror motor.

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SEAT MEMORY INDICATOR

Component Function Check

1.CHECK FUNCTION

1. Select "MEMORY SW INDCTR" in "Active test" mode with CONSULT.

2. Check the memory indicator operation.

Т	est item	Desc	ription
	OFF		OFF
MEMORY SW INDCTR	ON-1	Memory switch indicator	Indicator 1: ON
	ON-2	-	Indicator 2: ON

Is the operation of relevant parts normal?

YES >> INSPECTION END

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

Diagnosis Procedure

INFOID:000000007492561

1.CHECK SEAT MEMORY SWITCH INDICATOR OPERATION

Check seat memory switch indicator operation.

Which is the malfunctioning indicator?

All indicators are NG>>GO TO 2.

An indicator is NG>>GO TO 4.

2.CHECK FUSE

1. Turn ignition switch OFF.

2. Check that the following fuse is not fusing.

Signal name	Fuse No.
Battery power supply	10 (10 A)

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace the blown fuse after repairing affected circuit.

${f 3.}$ CHECK SEAT MEMORY SWITCH INDICATOR POWER SUPPLY

Check voltage between seat memory switch harness connector and ground.

(+)		
Seat memory switch		(-)	Voltage (V)
Connector	Terminals		
D13	5	Ground	Battery voltage

Is the inspection result normal?

YES >> Replace seat memory switch. Refer to <u>ADP-105, "Removal and Installation"</u>.

NO >> Repair or replace harness between seat memory switch and 10 A fuse [No.10, located in fuse block (J/B)].

4. CHECK SEAT MEMORY SWITCH INDICATOR CIRCUIT

1. Turn ignition switch OFF.

2. Disconnect driver seat control unit and seat memory switch connector.

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

SEAT MEMORY INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

Driver seat contro	ol unit	Seat memory switch	Continuity
Connector	Terminal Con	nector Terminal	Continuity
B552	7 23	013 7 6	Existed
eck continuity betwee	en driver seat control unit h	arness connector and gro	und.
	t control unit	_	Continuity
Connector	Terminal 7	Ground	
B552	23	-	Not existed
>> Kepair or replac	e harness or connector.		

< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

MANUAL FUNCTION DOES NOT OPERATE

ALL COMPONENT

ALL COMPONENT : Diagnosis Procedure

INFOID:000000007492562

1.CHECK DRIVER SEAT CONTROL UNIT POWER SUPPLY AND GROUND CIRCUIT

Check driver seat control unit power supply and ground circuit. Refer to ADP-50, "DRIVER SEAT CONTROL UNIT : Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunction parts.

2.CHECK AUTOMATIC DRIVE POSITIONER CONTROL UNIT POWER SUPPLY AND GROUND CIRCUIT

Check automatic drive positioner control unit power supply and ground circuit. Refer to <u>ADP-50. "AUTOMATIC DRIVE POSITIONER CONTROL UNIT : Diagnosis Procedure"</u>.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunction parts.

3. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u>.

NO >> GO TO 1.

POWER SEAT

POWER SEAT : Diagnosis Procedure

1.CHECK POWER SEAT SWITCH GROUND CIRCUIT

Check power seat switch ground circuit. Refer to ADP-66, "Diagnosis Procedure".

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness or connector.

2. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u>.

NO >> GO TO 1.

SEAT SLIDING

SEAT SLIDING : Diagnosis Procedure

1.CHECK SLIDING MECHANISM

Check for the following.

- Mechanism deformation or pinched foreign materials.
- Interference with other parts because of poor installation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunction parts.

2. CHECK SLIDING SWITCH

INFOID:000000007492563

< SYMPTOM DIAGNOSIS >	
Check sliding switch. Refer to <u>ADP-52, "Component Function Check"</u> .	А
Is the inspection result normal?	
YES >> GO TO 3. NO >> Repair or replace the malfunction parts.	В
3. CHECK SLIDING MOTOR	
Check sliding motor. Refer to <u>ADP-79, "Component Function Check"</u> .	С
Is the inspection result normal?	
YES >> GO TO 4. NO >> Repair or replace the malfunction parts.	D
4.CONFIRM THE OPERATION	
Check the operation again.	Е
Is the result normal?	
YES >> Check intermittent incident. Refer to <u>GI-42</u> , "Intermittent Incident".	
NO $>>$ GO TO 1.	F
SEAT RECLINING	
SEAT RECLINING : Diagnosis Procedure	G
1.CHECK RECLINING MECHANISM	
Check for the following.	Η
 Mechanism deformation or pinched foreign materials. Interference with other parts because of poor installation. 	
Is the inspection result normal?	I
YES >> GO TO 2. NO >> Repair or replace the malfunction parts.	
	ADP
Check reclining switch. Refer to <u>ADP-54, "Component Function Check"</u> .	K
Is the inspection result normal?	
YES >> GO TO 3. NO >> Repair or replace the malfunction parts.	I
3. CHECK RECLINING MOTOR	_
Check reclining motor. Refer to <u>ADP-81, "Component Function Check"</u> .	M
Is the inspection result normal?	
YES >> GO TO 4.	
NO >> Repair or replace the malfunction parts.	Ν
4.CONFIRM THE OPERATION	
Check the operation again.	
Is the result normal?	0
YES >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> .	
NO >> GO TO 1.	Р
SEAT LIFTING (FRONT)	1
SEAT LIFTING (FRONT) : Diagnosis Procedure	
1.CHECK LIFTING (FRONT) MECHANISM	
Check for the following.	

• Mechanism deformation or pinched foreign materials.

< SYMPTOM DIAGNOSIS >

• Interference with other parts because of poor installation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunction parts.

2. CHECK LIFTING SWITCH (FRONT)

Check lifting switch (front).

Refer to ADP-56, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunction parts.

3.CHECK LIFTING MOTOR (FRONT)

Check lifting motor (front).

Refer to ADP-83, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunction parts.

4.CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u>.

NO >> GO TO 1.

SEAT LIFTING (REAR)

SEAT LIFTING (REAR) : Diagnosis Procedure

1.CHECK LIFTING (REAR) MECHANISM

Check for the following.

• Mechanism deformation or pinched foreign materials.

Interference with other parts because of poor installation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunction parts.

2. CHECK LIFTING SWITCH (REAR)

Check lifting switch (rear).

Refer to ADP-58. "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunction parts.

3.CHECK LIFTING MOTOR (REAR)

Check lifting motor (rear). Refer to <u>ADP-85, "Component Function Check"</u>.

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunction parts.

4.CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u>.

NO >> GO TO 1.

DOOR MIRROR

< SYMPTOM DIAGNOSIS >	
DOOR MIRROR : Diagnosis Procedure	INFOID:000000007492568
1.CHECK DOOR MIRROR MECHANISM	A
Check for the following.Mechanism deformation or pinched foreign materials.Interference with other parts because of poor installation.	В
Is the inspection result normal?YES>> GO TO 2.NO>> Repair or replace the malfunction parts.	С
2. CHECK DOOR MIRROR REMOTE CONTROL SWITCH	D
 Check door mirror remote control switch. Refer to following. Mirror switch : Refer to <u>ADP-62. "MIRROR SWITCH : Component Function C</u> Changeover switch : Refer to <u>ADP-64. "CHANGEOVER SWITCH : Compone</u> Is the inspection result normal? 	
YES >> GO TO 3. NO >> Repair or replace the malfunction parts. 3. CHECK DOOR MIRROR MOTOR	F
Check door mirror motor. Refer to <u>ADP-87. "Component Function Check"</u> . <u>Is the inspection result normal?</u> YES >> GO TO 4.	G
NO >> Repair or replace the malfunction parts.	Н
4.CONFIRM THE OPERATION	
Check the operation again. <u>Is the result normal?</u>	1
YES >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> . NO >> GO TO 1.	ADF
	K
	L

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MEMORY FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

MEMORY FUNCTION DOES NOT OPERATE
ALL COMPONENT
ALL COMPONENT : Diagnosis Procedure
1.CHECK MANUAL OPERATION
Check manual operation.
Is the inspection result normal?
YES >> GO TO 2. NO >> Repair or replace the malfunction parts.
2.PERFORM INITIALIZATION AND MEMORY STORING PROCEDURE
 Perform initialization procedure. Refer to <u>ADP-40, "Work Procedure"</u>.
2. Perform memory storing procedure.
Refer to <u>ADP-41, "Work Procedure"</u> . 3. Check memory function.
Refer to <u>ADP-15, "MEMORY FUNCTION : System Description"</u> .
Is the inspection result normal?
YES >> Memory function is normal. NO >> GO TO 3.
3.CHECK SEAT MEMORY SWITCH
Check seat memory switch. Refer to <u>ADP-60, "Component Function Check"</u> .
Is the inspection result normal?
YES >> GO TO 4.
NO >> Replace seat memory switch.
4.CONFIRM THE OPERATION
Confirm the operation again.
Is the result normal?
YES >> Check intermittent incident. Refer to <u>GI-42. "Intermittent Incident"</u> . NO >> GO TO 1.
SEAT SLIDING
SEAT SLIDING : Diagnosis Procedure
1.CHECK MANUAL OPERATION
Check manual operation.
Is the inspection result normal?
YES >> GO TO 2. NO >> Refer to <u>ADP-92, "SEAT SLIDING : Diagnosis Procedure"</u>
2. CHECK SLIDING SENSOR
Check sliding sensor.
Refer to <u>ADP-67, "Component Function Check"</u> .
Is the inspection result normal?
YES >> GO TO 3.
NO >> Repair or replace the malfunction parts.
3.CONFIRM THE OPERATION
Check the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

MEMORY FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >	
NO >> GO TO 1. SEAT RECLINING	A
SEAT RECLINING : Diagnosis Procedure	
1.CHECK MANUAL OPERATION	В
Check manual operation.	
<u>Is the inspection result normal?</u> YES >> GO TO 2.	С
NO >> Refer to <u>ADP-93, "SEAT RECLINING : Diagnosis Procedure"</u>	
2. CHECK RECLINING SENSOR	D
Check reclining sensor. Refer to ADP-69, "Component Function Check".	
Is the inspection result normal?	E
YES >> GO TO 3.	
NO >> Repair or replace the malfunction parts. 3. CONFIRM THE OPERATION	F
Check the operation again. <u>Is the result normal?</u>	G
YES >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u> .	
NO >> GO TO 1. SEAT LIFTING (FRONT)	Н
SEAT LIFTING (FRONT) : Diagnosis Procedure	Ι
1.CHECK MANUAL OPERATION	
Check manual operation.	ADF
<u>Is the inspection result normal?</u> YES >> GO TO 2.	
NO >> Refer to <u>ADP-93, "SEAT LIFTING (FRONT) : Diagnosis Procedure"</u>	
2.CHECK LIFTING SENSOR (FRONT)	K
Check lifting sensor (front). Refer to ADP-71, "Component Function Check".	
Is the inspection result normal?	
<u>Is the inspection result normal?</u> YES >> GO TO 3.	L
YES >> GO TO 3. NO >> Repair or replace the malfunction parts.	M
YES >> GO TO 3. NO >> Repair or replace the malfunction parts. 3. CONFIRM THE OPERATION	M
YES >> GO TO 3. NO >> Repair or replace the malfunction parts. 3. CONFIRM THE OPERATION Check the operation again.	M
YES >> GO TO 3. NO >> Repair or replace the malfunction parts. 3. CONFIRM THE OPERATION Check the operation again. Is the result normal?	
YES >> GO TO 3. NO >> Repair or replace the malfunction parts. 3.CONFIRM THE OPERATION Check the operation again. Is the result normal? YES >> Check intermittent incident. Refer to GI-42. "Intermittent Incident". NO >> GO TO 1.	
YES >> GO TO 3. NO >> Repair or replace the malfunction parts. 3.CONFIRM THE OPERATION Check the operation again. Is the result normal? YES >> Check intermittent incident. Refer to GI-42. "Intermittent Incident". NO >> GO TO 1. SEAT LIFTING (REAR)	Ν
YES >> GO TO 3. NO >> Repair or replace the malfunction parts. 3.CONFIRM THE OPERATION Check the operation again. Is the result normal? YES >> Check intermittent incident. Refer to GI-42. "Intermittent Incident". NO >> GO TO 1.	Ν
YES >> GO TO 3. NO >> Repair or replace the malfunction parts. 3.CONFIRM THE OPERATION Check the operation again. Is the result normal? YES >> Check intermittent incident. Refer to GI-42. "Intermittent Incident". NO >> GO TO 1. SEAT LIFTING (REAR)	N
YES >> GO TO 3. NO >> Repair or replace the malfunction parts. 3.CONFIRM THE OPERATION Check the operation again. Is the result normal? YES >> Check intermittent incident. Refer to GI-42. "Intermittent Incident". NO >> GO TO 1. SEAT LIFTING (REAR) SEAT LIFTING (REAR) : Diagnosis Procedure 1.CHECK MANUAL OPERATION Check manual operation.	N
YES >> GO TO 3. NO >> Repair or replace the malfunction parts. 3.CONFIRM THE OPERATION Check the operation again. Is the result normal? YES >> Check intermittent incident. Refer to GI-42. "Intermittent Incident". NO >> GO TO 1. SEAT LIFTING (REAR) SEAT LIFTING (REAR) : Diagnosis Procedure 1.CHECK MANUAL OPERATION	N

MEMORY FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

2.CHECK LIFTING SENSOR (REAR)

Check lifting sensor (rear).

Refer to ADP-73, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunction parts.

3. CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> GO TO 1.

DOOR MIRROR

DOOR MIRROR : Diagnosis Procedure

INFOID:000000007492574

1.CHECK MANUAL OPERATION

Check manual operation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to <u>ADP-95, "DOOR MIRROR : Diagnosis Procedure"</u>

2. CHECK MIRROR SENSOR

Check mirror sensor. Refer to following.

- Driver side : ADP-75, "DRIVER SIDE : Component Function Check".
- Passenger side : <u>ADP-76, "PASSENGER SIDE : Component Function Check"</u>.

Is the inspection result normal?

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

3.CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u>.

NO >> GO TO 1.

ENTRY/EXIT ASSIST FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

ENTRY/EXIT ASSIST FUNCTION DOES NOT OPERATE

Diagnosis Procedure	
1.CHECK SYSTEM SETTING	В
 Check system setting. Refer to <u>ADP-43, "Work Procedure"</u>. Check the operation. 	C
Is the inspection result normal?	
YES >> INSPECTION END NO >> GO TO 2. 2 DEDEODM OVOTEM INITIALIZATION	D
2.PERFORM SYSTEM INITIALIZATION	
 Perform system initialization. Refer to <u>ADP-40, "Work Procedure"</u>. Check the operation. 	E
Is the inspection result normal?	
YES >> INSPECTION END NO >> GO TO 3.	F
3. CHECK FRONT DOOR SWITCH (DRIVER SIDE)	G
Check front door switch (driver side). Refer to DLK-209, "Component Function Check".	
Is the inspection result normal?	H
YES >> GO TO 4. NO >> Repair or replace the malfunction parts.	
4.CONFIRM THE OPERATION	
Confirm the operation again.	
Is the result normal?	AD
 YES >> Check intermittent incident. Refer to <u>GI-42, "Intermittent Incident"</u>. NO >> GO TO 1. 	

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INTELLIGENT KEY INTERLOCK FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

INTELLIGENT KEY INTERLOCK FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000007492576

1.PERFORM INTELLIGENT KEY INTERLOCK STORING PROCEDURE

1. Perform Intelligent Key interlock storing procedure. Refer to <u>ADP-42</u>, "Work Procedure".

2. Check the operation.

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 2.

2. CHECK DOOR LOCK FUNCTION

Check door lock function. Refer to <u>DLK-133, "Work Flow"</u>.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunction parts.

3.CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

YES >> Check the intermittent incident. Refer to GI-42, "Intermittent Incident".

NO >> GO TO 1.

MEMORY INDICATE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >	
MEMORY INDICATE DOES NOT OPERATE	A
Diagnosis Procedure	INFOID:000000007492577
1. CHECK SEAT MEMORY SWITCH INDICATOR	В
Check seat memory switch indicator. Refer to <u>ADP-90, "Component Function Check"</u> .	
<u>Is the inspection result normal?</u> YES >> GO TO 2.	C
NO \rightarrow Repair or replace the malfunction parts. 2.CONFIRM THE OPERATION	D
Confirm the operation again. <u>Is the result normal?</u> YES >> Check intermittent incident. Refer to <u>GI-42. "Intermittent Incident"</u> . NO >> GO TO 1.	E
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< SYMPTOM DIAGNOSIS >

NORMAL OPERATING CONDITION

Description

INFOID:000000007492578

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

Symptom	Cause	Action to take	Reference page
	No initialization has been performed.	Perform initialization.	ADP-40, "Description"
Entry/exit assist function do not operate.	Entry/exit assist function is disabled. NOTE: Entry/exit assist function is set to ON be- fore delivery (initial setting).	Change the settings.	ADP-43, "Description"
Entry assist function does not operate.	Manual operation with power seat switch was performed after exit assist function execution.	Perform the entry as- sist function.	ADP-18, "ENTRY AS- SIST FUNCTION : Sys- tem Description"
Lumbar support does not per- form memory operation.	The lumbar support system are con- trolled independently with no link to the automatic drive positioner system.	_	SE-13, "POWER SEAT SYSTEM : System De- scription"
Memory function, entry/exit as- sist function, or Intelligent Key in- terlock function does not operate.	The operating conditions are not fulfilled.	Fulfill the operation conditions.	Memory function : ADP-15, "MEMORY FUNCTION : System Description"
			Entry assist function : ADP-18. "ENTRY AS- SIST FUNCTION : Sys- tem Description"
			Exit assist function : ADP-17, "EXIT ASSIST FUNCTION : System Description"
			Intelligent Key interlock function : <u>ADP-19, "IN-</u> <u>TELLIGENT KEY IN-</u> <u>TERLOCK FUNCTION:</u> <u>System Description</u> "

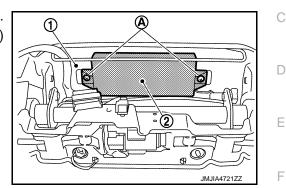
< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION DRIVER SEAT CONTROL UNIT

Removal and Installation

REMOVAL

- 1. Remove driver seat. Refer to SE-84, "Removal and Installation".
- 2. Remove screws (A), and then remove driver seat control unit (2) from seat cushion frame (1)



INSTALLATION

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

After installing the driver seat, perform additional service when replacing control unit. Refer to <u>ADP-39</u>, <u>"Description"</u>.

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Revision: 2011 September

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

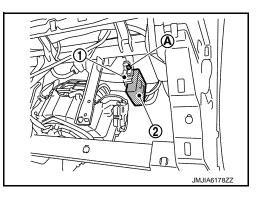
< REMOVAL AND INSTALLATION >

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

Removal and Installation

REMOVAL

- 1. Remove instrument lower panel RH. Refer to <u>IP-13. "Removal</u> <u>and Installation"</u>.
- 2. Remove screw (A), and then remove automatic drive positioner control unit (2) from bracket (1).



INSTALLATION

Install in the reverse order of removal.

NOTE:

After installing the driver seat, perform additional service when replacing control unit. Refer to <u>ADP-39</u>, <u>"Description"</u>.

< REMOVAL AND INSTALLATION >

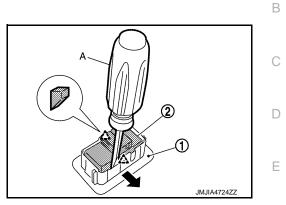
SEAT MEMORY SWITCH

Removal and Installation

REMOVAL

- 1. Remove front door finisher. Refer to <u>INT-13</u>, "Removal and <u>Installation"</u>.
- 2. Press pawls and remove seat memory switch (1) from switch finisher (1) using remover tool (A).

<u>ר_</u>: Pawl



INSTALLATION Install in the reverse order of removal.

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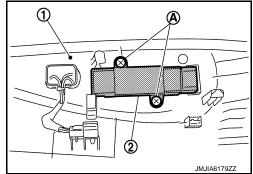
< REMOVAL AND INSTALLATION >

POWER SEAT SWITCH

Removal and Installation

REMOVAL

- 1. Remove seat cushion outer finisher. Refer to <u>SE-90, "SEAT</u> <u>CUSHION : Disassembly and Assembly"</u>.
- 2. Remove screws (A), and then remove power seat switch (2) from seat cushion outer finisher (1).



INSTALLATION Install in the reverse order of removal.