# SECTION ADP 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.

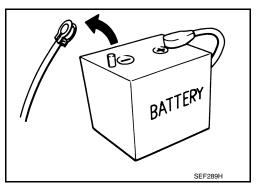
### Precautions for Removing Battery Terminal

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

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

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



#### NOTE:

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

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

## PRECAUTIONS

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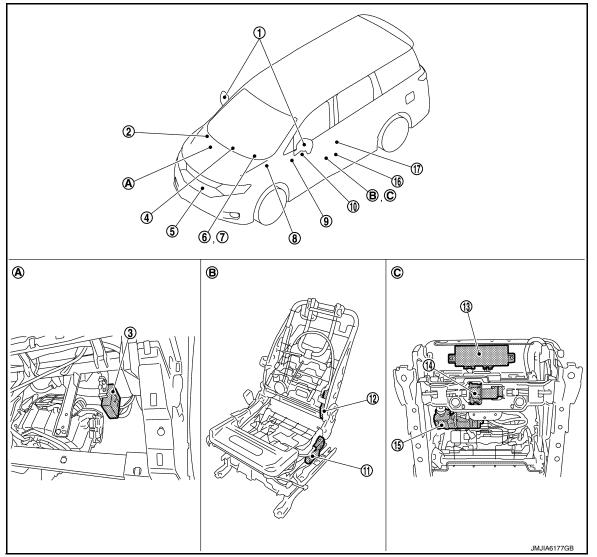
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#### < SYSTEM DESCRIPTION >

## SYSTEM DESCRIPTION COMPONENT PARTS

**Component Parts Location** 

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

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

No.	Compon	ent 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-6</u> , " <u>Component Parts Location</u> " for detailed installa- tion location.
1.	Door mirror (driver side/ passenger side)	Mirror sensor	<ul> <li>Mirror sensor is installed to door mirror.</li> <li>The resistance of 2 sensors (horizontal and vertical) is changed when door mirror is operated.</li> <li>Automatic drive positioner control unit calculates door mirror po- sition according to the change of the voltage of 2 sensor input terminals.</li> <li>Refer to <u>MIR-6, "Component Parts Location"</u> for detailed installa- tion location.</li> </ul>

## **COMPONENT PARTS**

#### < SYSTEM DESCRIPTION >

No.	. Component 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-9. "Component Parts Location"</u> for detailed installation location.
3.	Automatic drive positioner control unit		Refer to ADP-9, "Automatic Drive Positioner Control Unit".
4.	CVT sift selector (Detention	n switch)	<ul> <li>Detention switch is installed on CVT shift selector. It is turned OFF when CVT shift selector is in P position.</li> <li>Driver seat control unit judges that CVT shift selector is in P po- sition if continuity does not exist in this circuit.</li> <li>Refer to <u>TM-12</u>, "CVT CONTROL SYSTEM : Component Parts Lo- cation" for detailed installation location.</li> </ul>
5.	ТСМ		<ul> <li>The following signals are transmitted to driver seat control unit via CAN communication.</li> <li>Shift position signal (P range)</li> <li>Identification of transmission: CVT</li> <li>Refer to <u>TM-12</u>, <u>"CVT CONTROL SYSTEM : Component Parts Location"</u> for detailed installation location.</li> </ul>
6.	Combination meter		Transmit the vehicle speed signal to driver seat control unit via CAN communication. Refer to <u>MWI-7. "METER SYSTEM : Component Parts Location"</u> for detailed installation location.
7.	ВСМ		<ul> <li>Recognizes the following status and transmits it to driver seat control unit via CAN communication.</li> <li>Handle position: LHD</li> <li>Driver door: OPEN/CLOSE</li> <li>Ignition switch position: ACC/ON</li> <li>Door lock: UNLOCK (with Intelligent key or driver side door request switch operation)</li> <li>Key ID</li> <li>Starter: CRANKING/OTHER</li> <li>Refer to <u>BCS-5, "BODY CONTROL SYSTEM : Component Parts Location"</u> for detailed installation location.</li> </ul>
8.	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> , "IPDM E/R : Component Parts Location" for de- tailed installation location.
	Door mirror remote com	Mirror switch	<ul> <li>Mirror switch is integrated in door mirror remote control switch.</li> <li>It operates angle of door mirror face.</li> <li>It transmits mirror face adjust operation to automatic drive positioner control unit.</li> <li>Refer to <u>MIR-6, "Component Parts Location"</u> for detailed installation location.</li> </ul>
9.	Door mirror remote con- trol switch	Changeover switch	<ul> <li>Changeover switch is integrated in door mirror remote control switch.</li> <li>Changeover switch has three positions (L, N and R).</li> <li>It changes operating door mirror motor by transmitting control signal to automatic drive positioner control unit.</li> <li>Refer to <u>MIR-6, "Component Parts Location"</u> for detailed installation location.</li> </ul>
	Seat memory switch	Set switch	Refer to ADP-9, "Seat Memory Switch".

## **COMPONENT PARTS**

#### < SYSTEM DESCRIPTION >

No.	Compon	ent parts	Description
		Lifting motor (rear)	<ul> <li>Lifting motor (rear) is installed to seat slide cushion frame.</li> <li>Lifting motor (rear) is activated with driver seat control unit.</li> <li>Seat lifter (rear) is moved upward/downward by changing the rotation direction of lifting motor (rear).</li> <li>Refer to <u>SE-9. "POWER SEAT SYSTEM : Component Parts Location</u>" for detailed installation location.</li> </ul>
11.	Lifting motor (rear)	Lifting sensor (rear)	<ul> <li>Lifting sensor (rear) is installed to seat side cushion frame.</li> <li>The pulse signal is input to driver seat control unit when lifting (rear) is operated.</li> <li>Driver seat control unit counts the pulse and calculates the lifting (rear) amount of the seat.</li> <li>Refer to <u>SE-9. "POWER SEAT SYSTEM : Component Parts Location"</u> for detailed installation location.</li> </ul>
		Reclining motor	<ul> <li>Seat reclining motor is installed to seat back frame.</li> <li>Seat reclining motor is activated with driver seat control unit.</li> <li>Seatback is reclined frontward/rearward by changing the rotation direction of reclining motor.</li> <li>Refer to <u>SE-9. "POWER SEAT SYSTEM : Component Parts Location"</u> for detailed installation location.</li> </ul>
12.	Reclining motor	Reclining sensor	<ul> <li>Reclining sensor is integrated in reclining motor.</li> <li>The pulse signal is input to driver seat control unit when the reclining is operated.</li> <li>Driver seat control unit counts the pulse and calculates the reclining amount of the seat.</li> <li>Refer to <u>SE-9. "POWER SEAT SYSTEM : Component Parts Location"</u> for detailed installation location.</li> </ul>
13.	Driver seat control unit		Refer to ADP-9, "Driver Seat Control Unit".
		Sliding motor	<ul> <li>Seat sliding motor is installed to the seat cushion frame.</li> <li>Seat sliding motor is activated with driver seat control unit.</li> <li>Slides the seat frontward/ rearward by changing the rotation direction of sliding motor.</li> <li>Refer to <u>SE-9, "POWER SEAT SYSTEM : Component Parts Location</u>" for detailed installation location.</li> </ul>
14.	Sliding motor	Sliding sensor	<ul> <li>Sliding sensor is integrated in sliding motor.</li> <li>The pulse signal is input to driver seat control unit when sliding is performed.</li> <li>Driver seat control unit counts the pulse and calculates the sliding amount of the seat.</li> <li>Refer to <u>SE-9, "POWER SEAT SYSTEM : Component Parts Location</u>" for detailed installation location.</li> </ul>
15.	Lifting motor (front)	Lifting motor (front)	<ul> <li>Lifting motor (front) is installed to seat side cushion frame.</li> <li>Lifting motor is activated with driver seat control unit.</li> <li>Seat lifter (front) is moved upward/downward by changing the rotation direction of lifting motor (front).</li> <li>Refer to <u>SE-9, "POWER SEAT SYSTEM : Component Parts Location"</u> for detailed installation location.</li> </ul>
		Lifting sensor (front)	<ul> <li>Lifting sensor (front) is installed in lifting motor (rear).</li> <li>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.</li> <li>Refer to <u>SE-9, "POWER SEAT SYSTEM : Component Parts Location"</u> for detailed installation location.</li> </ul>

## **COMPONENT PARTS**

#### SVSTEM DESCRIPTION -~

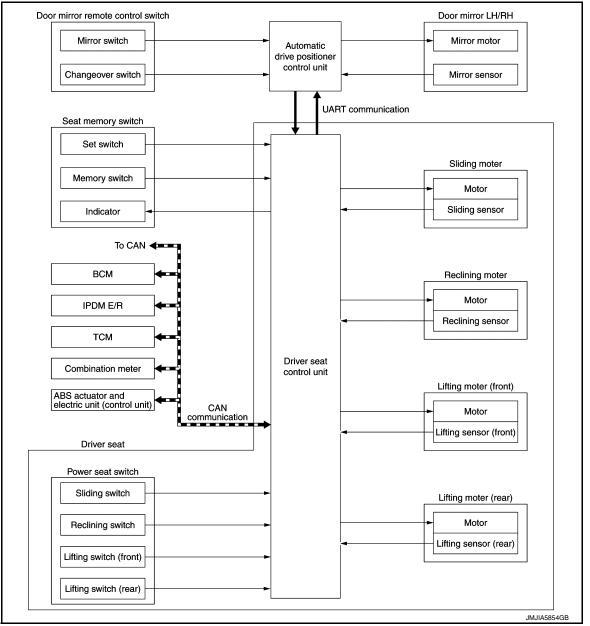
No.	Com	oonent parts	Description
		Sliding switch	<ul> <li>Sliding switch is equipped to power seat switch on seat cushion side surface.</li> <li>The operation signal is input to driver seat control unit when sliding switch is operated.</li> <li>Refer to <u>SE-9</u>. "POWER SEAT SYSTEM: Component Parts Location" for detailed installation location.</li> </ul>
16.	Power seat switch	Reclining switch	<ul> <li>The operation signal is input to driver seat control unit when reclining switch is operated.</li> <li>The operation signal is input to driver seat control unit when reclining switch is operated.</li> <li>Refer to <u>SE-9. "POWER SEAT SYSTEM : Component Parts Location"</u> for detailed installation location.</li> </ul>
10.	Fower seat Switch	Lifting switch (front)	<ul> <li>Lifting switch (front) is equipped to power seat switch on seat cushion side surface.</li> <li>The operation signal is input to driver seat control unit when lifting switch (front) is operated.</li> <li>Refer to <u>SE-9. "POWER SEAT SYSTEM : Component Parts Location"</u> for detailed installation location.</li> </ul>
		Lifting switch (rear)	<ul> <li>Lifting switch (rear) is equipped to power seat switch on seat cushion side surface.</li> <li>The operation signal is input to driver seat control unit when lifting switch (rear) is operated.</li> <li>Refer to <u>SE-9. "POWER SEAT SYSTEM : Component Parts Location"</u> for detailed installation location.</li> </ul>
17.	Front door switch (drive	er side)	Detects door open/close condition and transmits to BCM. Refer to <u>DLK-18</u> , <u>"DOOR LOCK SYSTEM : Component Parts Lo-</u> <u>cation"</u> for detailed installation location.
utom	natic Drive Posit	ioner Control Unit	INFCID:000000012405527
Perfo Perfo	rm various controls v rm the controls of do	er seat control unit via U with the instructions of di or mirror and seat memory the signal from the drive	river seat control unit. ory switch.
•	Memory Switch	-	INFOID:000000012405528
	WITCH ed for registration an	d setting change of drivir	ng position and Intelligent Key interlock function.
The n Drivin		ositions can be registere	d by memory switch 1 to 2. ition when memory switch is pressed while operation con-
	MEMORY INDICA y indicator indicates		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 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.

## SYSTEM AUTOMATIC DRIVE POSITIONER SYSTEM AUTOMATIC DRIVE POSITIONER SYSTEM : System Description

INFOID:000000012405530

#### SYSTEM DIAGRAM



#### 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).

#### < SYSTEM DESCRIPTION >

Function		Description	
Entry/Exit appliet function		On exit, the seat moves backward.	A
Entry/Exit assist function	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.	E

#### 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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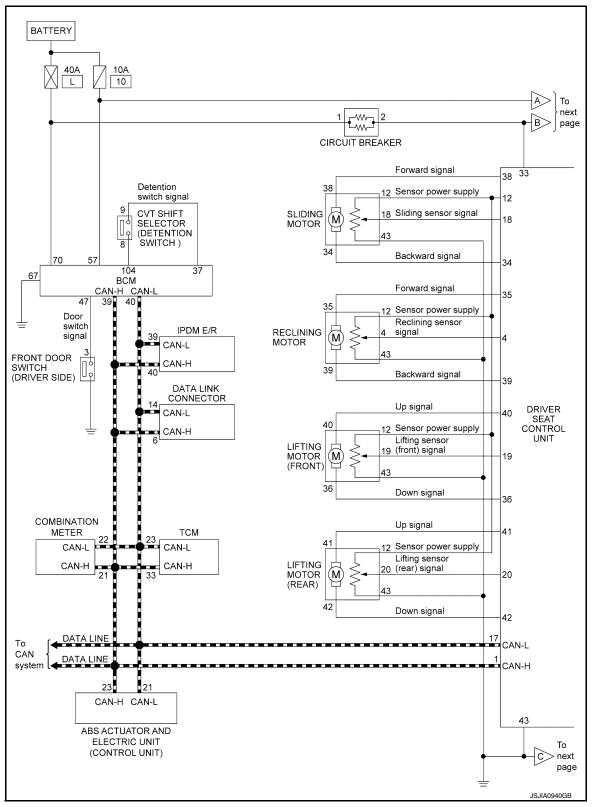
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## < SYSTEM DESCRIPTION >

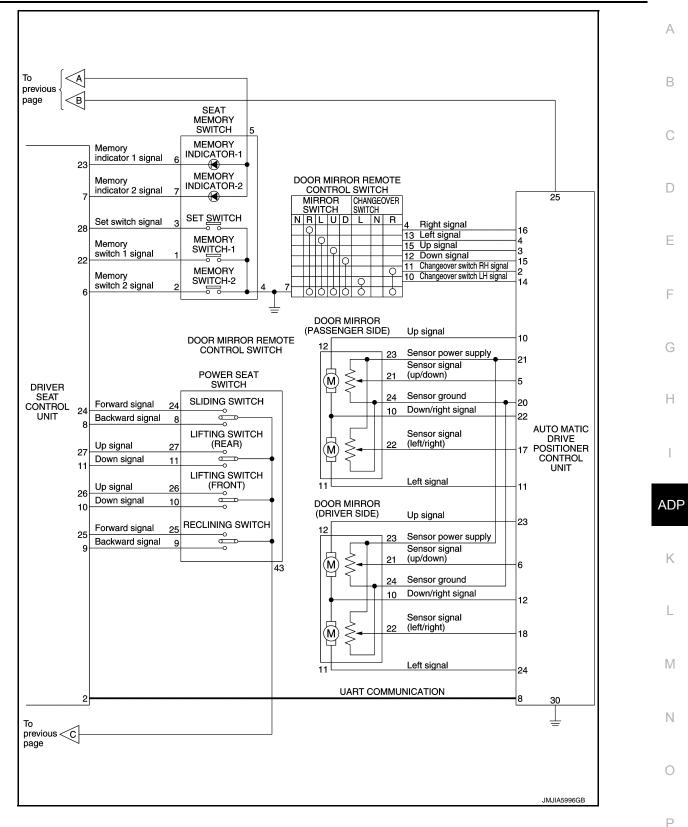
## AUTOMATIC DRIVE POSITIONER SYSTEM : Schematic



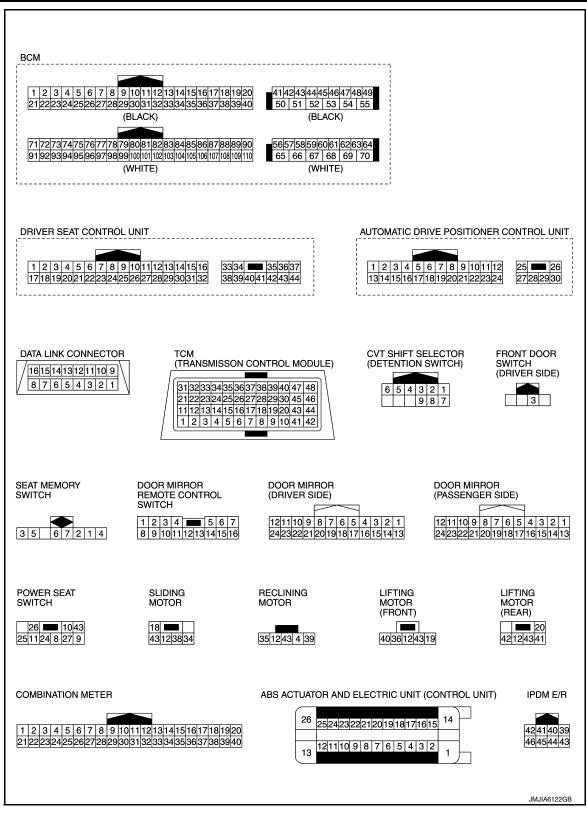




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#### < SYSTEM DESCRIPTION >



## MANUAL FUNCTION

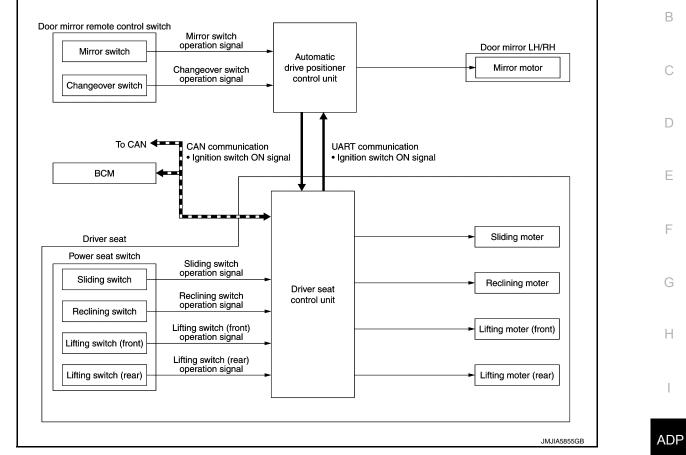
#### < SYSTEM DESCRIPTION >

## 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

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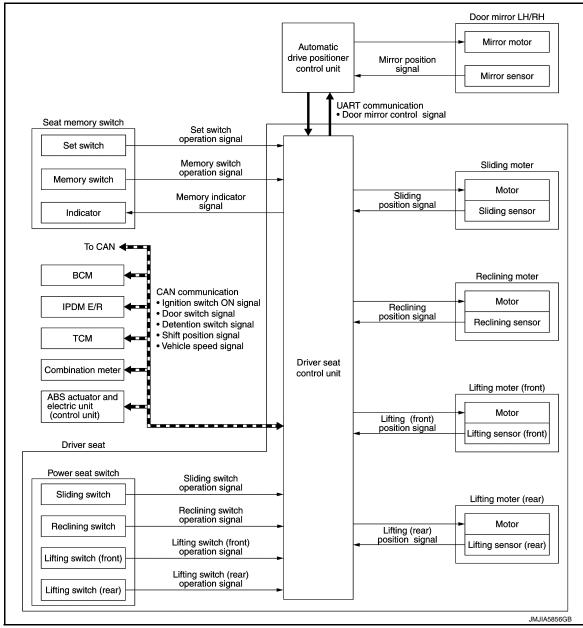
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#### < SYSTEM DESCRIPTION >

## MEMORY FUNCTION : System Description

#### 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-51, "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 <sup>*</sup>	
Switch inputs <ul> <li>Power seat switch</li> <li>Door mirror control switch</li> <li>Set switch</li> <li>Memory switch</li> </ul>	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.

Request status	
OFF	
OFF	
Registered	
P position	
OFF	
Not connected	
	OFF OFF Registered P position OFF

**EXIT ASSIST FUNCTION** 

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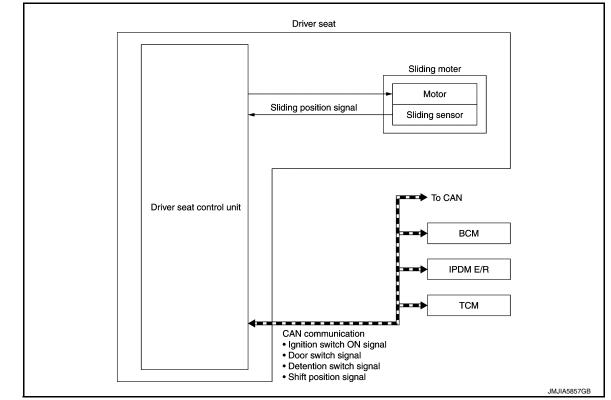
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#### < SYSTEM DESCRIPTION >

### **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 ADP-53, "Description".

#### **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
Initialization	Done
Switch inputs <ul> <li>Power seat switch</li> <li>Door mirror remote control switch</li> <li>Set switch</li> <li>Memory switch</li> </ul>	OFF (Not operated)
CVT shift selector	P position
Handle position	LHD

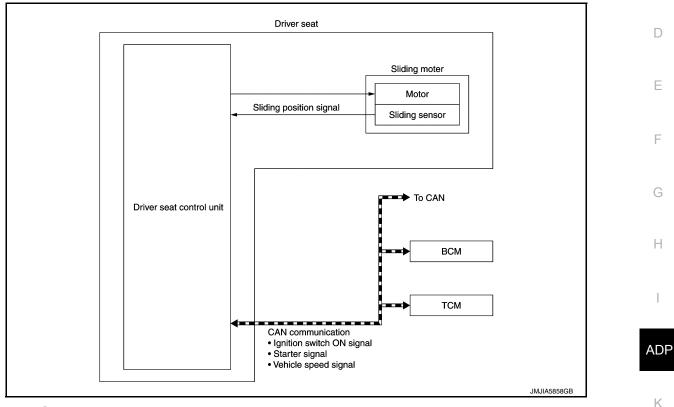
#### < SYSTEM DESCRIPTION >

	Item	Request status	^
Transmission		CVT	A
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 Μ 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 ADP-53, "Description".

#### **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 <ul> <li>Power seat switch</li> <li>Door mirror control switch</li> <li>Set switch</li> <li>Memory switch</li> </ul>	OFF (Not operated)	

INFOID:000000012405535

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#### < SYSTEM DESCRIPTION >

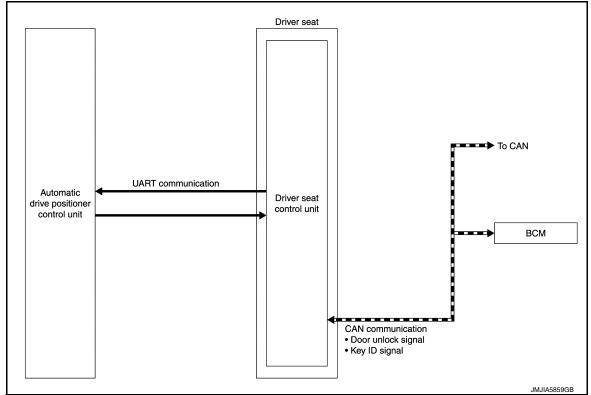
Item	Request status
Vehicle speed	0 km/h (0 MPH)
Starter	OFF
Transmission	CVT
CONSULT	Not connected

## INTELLIGENT KEY INTERLOCK FUNCTION

## INTELLIGENT KEY INTERLOCK FUNCTION : System Description

INFOID:000000012405536

#### 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 ON to OFF, and operation restarts.
- Further information for Intelligent Key interlock function. Refer to ADP-52, "Description".

#### **Operation Condition**

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

#### < SYSTEM DESCRIPTION >

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

## Fail-safe

INFOID:000000012405537

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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-54, "DTC Logic"
Only manual functions operate normally.	CONTROL UNIT (CAN)	U1010	ADP-55, "DTC Logic"
	EEPROM	B2130	ADP-59, "DTC Logic"
Only manual functions, except door mirror, operate normally.	UART communication	B2128	ADP-58, "DTC Logic"
Only manual functions, except seat sliding, operate normally.	Seat sliding output	B2112	ADP-56, "DTC Logic"
Only manual functions, except seat reclining, operate normally.	Seat reclining output	B2113	ADP-57, "DTC Logic"

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## **DIAGNOSIS SYSTEM (DRIVER SEAT CONTROL UNIT)**

#### < SYSTEM DESCRIPTION >

## DIAGNOSIS SYSTEM (DRIVER SEAT CONTROL UNIT)

## **CONSULT** Function

INFOID:000000012405538

The automatic drive positioner system can be checked and diagnosed for component operation using CON-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-31, "DTC Index"</u>.

## DATA MONITOR

#### NOTE:

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

Monitor Item	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"	×	×	<b>NOTE:</b> 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.

**Revision: October 2015** 



## DIAGNOSIS SYSTEM (DRIVER SEAT CONTROL UNIT)

#### < SYSTEM DESCRIPTION >

Monitor Item	Unit	Main Signals	Selection From Menu	Contents	
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.	
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.

## DIAGNOSIS SYSTEM (DRIVER SEAT CONTROL UNIT)

#### < SYSTEM DESCRIPTION >

Test item	Description
SEAT SLIDE	Activates/deactivates the sliding motor.
SEAT RECLINING	Activates/deactivates the reclining motor.
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
		40 mm
SEAT SLIDE VOLUME SET	The amount of seat sliding for entry/exit assist can be selected from 3 items.	80 mm
		150 mm
EXIT SEAT SLIDE SETTING	Entry/exit assist (seat) can be selected:	ON
EATT SEAT SLIDE SETTING	ON (operated) – OFF (not operated)	OFF

#### < ECU DIAGNOSIS INFORMATION >

## ECU DIAGNOSIS INFORMATION BCM (BODY CONTROL MODULE)

## List of ECU Reference

INFOID:000000012405539

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ECU		Reference	C
	E	BCS-41, "Reference Value"	
BCM	E	BCS-63, "Fail-safe"	
BCIM	E	BCS-63, "DTC Inspection Priority Chart"	D
	E	BCS-64, "DTC Index"	

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#### < ECU DIAGNOSIS INFORMATION >

DRIVER SEAT CONTROL UNIT

### **Reference Value**

INFOID:000000012405540

#### VALUES ON THE DIAGNOSIS TOOL

#### NOTE:

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

Monitor Item	Condi	tion	Value/Status
	Oct cuitch	Push	ON
SET SW	Set switch	Release	OFF
	Manager av itale 4	Push	ON
MEMORY SW1	Memory switch 1	Release	OFF
	Momony quitch 2	Push	ON
MEMORY SW2	Memory switch 2	Release	OFF
SLIDE SW-FR	Sliding switch (forward)	Operate	ON
SLIDE SW-FR	Silding Switch (lorward)	Release	OFF
SLIDE SW-RR	Sliding switch (backward)	Operate	ON
SLIDE SW-RR	Siluling Switch (Dackwaru)	Release	OFF
RECLN SW-FR	Reclining switch (forward)	Operate	ON
REGEN SW-FR	Reclining Switch (lorward)	Release	OFF
RECLN SW-RR	Reclining switch (back-	Operate	ON
REGEN SW-RR	ward)	Release	OFF
LIFT FR SW-UP	Lifting switch front (up)	Operate	ON
LIFT FK SW-OF	Linung switch nont (up)	Release	OFF
LIFT FR SW-DN	Lifting switch front (down)	Operate	ON
		Release	OFF
LIFT RR SW-UP	Lifting switch rear (up)	Operate	ON
	Enting switch real (up)	Release	OFF
LIFT RR SW-DN	Lifting switch rear (down)	Operate	ON
	Enting switch real (down)	Release	OFF
MIR CON SW-UP	Mirror switch	Up	ON
		Other than the above	OFF
MIR CON SW-DN	Mirror switch	Down	ON
		Other than the above	OFF
MIR CON SW-RH	Mirror switch	Right	ON
		Other than the above	OFF
MIR CON SW-LH	Mirror switch	Left	ON
		Other than the above	OFF
MIR CHNG SW-R	Changeover switch	Right	ON
		Other than the above	OFF
MIR CHNG SW-L	Changeover switch	Left	ON
		Other than the above	OFF
DETENT SW	CVT shift selector	P position	OFF
		Other than the above	ON

#### < ECU DIAGNOSIS INFORMATION >

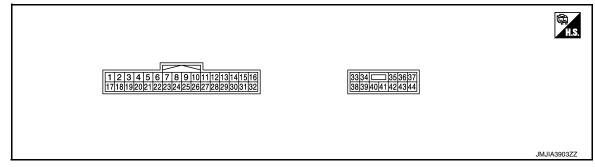
Monitor Item	Cond	ition	Value/Status
STARTER SW	Ignition position	Cranking	ON
STARTER SW	Ignition position	Other than the above	OFF
		Forward	The numeral value decreases *
SLIDE PULSE	Seat sliding	Backward	The numeral value increases*
		Other than the above	No change to numeral value*
		Forward	The numeral 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 <sup>*</sup>
		Up	The numeral value decreases *
LIFT RR PULSE	PULSE Seat lifter (rear)		The numeral value increases *
		Other than the above	No change to numeral value <sup>*</sup>
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
	C)/T shift as laster	P position	ON
P RANG SW CAN	CVT shift selector	Other than the above	OFF
R RANGE (CAN)	C)/T shift selector	R position	ON
	CVT shift selector	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
		Other than the above	OFF
KEYLESS ID	UNLOCK button of Intellige	ent Key is pressed	1, 2, 3, 4 or 5
KYLS DR UNLK	Intelligent Key or driver	ON	ON
	side door request switch	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

#### < ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
TRANSMISSION	Transmission type is displayed	AT or CVT
	Transmission type is displayed	MT

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

#### **TERMINAL LAYOUT**



#### PHYSICAL VALUES

	inal No. e color)	Description		Con	dition	Voltage (V)
+	-	Signal name	Input/ output	Con	ution	voltage (v)
1 (R/Y)		CAN-H	_	-	_	
2 (R)	Ground	UART communication (TX/RX)	Input	Ignition switch ON		10msec/div
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	0 – 1
(R/W)	Ground	nal	Input	Memory switch 2	Other than the above	4 - 6
7		Momony indiantor 2		Momonyindicator	Illuminate	0 - 1
7 (R/G)	Ground	Memory indicator 2 signal	Output	Memory indicator 2	Other than the above	9 - 16
8	Ground	Sliding switch back-	Input	Sliding switch	Operate (backward)	0 – 1
(SB)	Ground	ward signal	input	Shalling Switch	Other than the above	9 – 16

#### < ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description		Con	dition	Voltage (V)
+	-	Signal name	Input/ output	Con		Voltage (V)
9	Ground	Reclining switch back-	Input	Reclining switch	Operate (backward)	0 - 1
(L)	Cround	ward signal	input	Treelining Switch	Other than the above	9 – 16
10	Ground	Lifting switch (front)	Input	Lifting switch	Operate (down)	0 – 1
(L/B)	Cround	down signal	input	(front)	Other than the above	9 – 16
11	Ground	Lifting switch (rear)	Input	Lifting switch	Operate (down)	0 – 1
(L/W)	Cround	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 10mSec/div 2V/div JMJIA0119ZZ
					Other than the above	0 – 1 or 4 – 6
22 (W/L)	Ground	Memory switch 1 sig- nal	Input	Memory switch 1	Press Other than the	0 - 1 4 - 6
()					above Illuminate	4 - 6 0 - 1
23 (W/R)	Ground	Memory indicator 1 signal	Output	Memory indicator 1	Other than the above	9 – 16

#### < ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description		Con	dition	
+	-	Signal name	Input/ output	Con	dition	Voltage (V)
24	Ground	Sliding switch forward	Input	Sliding switch	Operate (forward)	0 – 1
(V/W)	Ground	signal	mput	Shulling Switch	Other than the above	9 – 16
25	Ground	Reclining switch for-	Input	Reclining switch	Operate (forward)	0 - 1
(Y/B)		ward signal	mpar		Other than the above	9 – 16
26	Ground	Lifting switch (front) up	Input	Lifting switch	Operate (up)	0 - 1
(Y/R)		signal	mpar	(front)	Other than the above	9 – 16
27	Ground	Lifting switch (rear) up	Input	Lifting switch	Operate (up)	0 - 1
(Y/L)		signal		(rear)	Other than the above	9 – 16
28	Ground	Set switch signal	Input	Set switch	Press	0 – 1
(G)	Ground	Set Switch Signal	mput	Set switch	Other than the above	4 - 6
33 (R)	Ground	Battery power supply	Input	-	_	9 – 16
34	Ground	Sliding motor back-	Output	Seat sliding	Operate (backward)	9 – 16
(B)		ward output signal			Other than the above	0 - 1
35	Ground	Reclining motor for-	Output	Seat reclining	Operate (forward)	9 – 16
(G)	Croana	ward output signal		Coatrooming	Other than the above	0 – 1
36	Ground	Lifting motor (front)	Output	Seat lifting (front)	Operate (down)	9 – 16
(L)	Cround	down output signal	Output		Other than the above	0 - 1
38	Ground	Sliding motor forward	Output	Seat sliding	Operate (forward)	9 – 16
(GR)		output signal	Odiput	ocat shaing	Other than the above	0 - 1
39	Ground	Reclining motor back-	Output	Seat reclining	Operate (backward)	9 – 16
(Y)	Cround	ward output signal	Output	Seat recirring	Other than the above	0 – 1
40	Cround	Lifting motor (front) up	Output	Soat lifting (front)	Operate (up)	9 – 16
(W)	Ground	output signal	Output	Seat lifting (front)	Other than the above	0 - 1
41	Ground	Lifting motor (rear) up	Output	Seat lifting (rear)	Operate (up)	9 – 16
(V)	Ground	output signal	Οιιμιί		Other than the above	0 – 1

#### < ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description		Con	dition	Voltage (V)	ŀ
+	-	Signal name	Input/ output	Con		voltage (v)	
42	Ground	Lifting motor (rear)	Output	Seat lifting (rear)	Operate (down)	9 – 16	E
(P/B)	Ground	down output signal	Output	Seat mung (rear)	Other than the above	0 – 1	C
43 (LG)	Ground	Ground	_	-		0 - 1	
	-						Γ

## 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-54, "DTC Logic"
Only manual functions operate normally.	CONTROL UNIT (CAN)	U1010	ADP-55, "DTC Logic"
	EEPROM	B2130	ADP-59, "DTC Logic"
Only manual functions, except door mirror, operate normally.	UART communication	B2128	ADP-58, "DTC Logic"
Only manual functions, except seat sliding, operate normally.	Seat sliding output	B2112	ADP-56, "DTC Logic"
Only manual functions, except seat reclining, operate normally.	Seat reclining output	B2113	ADP-57, "DTC Logic"

## DTC Index

INFOID:000000012405542

	Tim	ning <sup>*</sup>		
CONSULT display	Current mal- function	Previous mal- function	Item	Reference page
CAN COMM CIRCUIT [U1000]	0	1-39	CAN communication	ADP-54, "DTC Logic"
CONTROL UNIT (CAN) [U1010]	0	1-39	Control unit	ADP-55, "DTC Logic"
SEAT SLIDE [B2112]	0	1-39	Seat slide motor output	ADP-56, "DTC Logic"
SEAT RECLINING [B2113]	0	1-39	Seat reclining motor output	ADP-57, "DTC Logic"
JART COMM B2128]	0	1-39	UART communication	ADP-58, "DTC Logic"
EEPROM [B2130]	0	1-39	EEPROM	ADP-59, "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

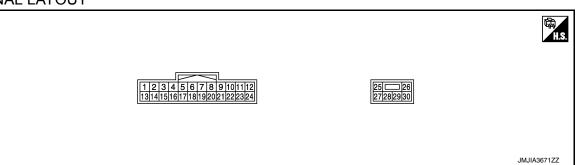
< ECU DIAGNOSIS INFORMATION >

## AUTOMATIC DRIVE POSITIONER CONTROL UNIT

#### **Reference Value**

INFOID:000000012405543

#### TERMINAL LAYOUT



#### PHYSICAL VALUES

	inal No. e color)	Description		Cor	ndition	Voltage (V)
+	-	Signal name	Input/ Output	CO		voltage (v)
2		Changeover switch RH		Changeover	RH	0 - 1
(BE)	Ground	signal	Input	switch position	Other than the above	4 - 6
3	Ground	Mirror switch up signal	laput	Mirror switch	Operated (up)	0 – 1
(GR)	Ground	Million Switch up Signal	Input	MITOI SWICH	Other than the above	4 - 6
4	Ground	Mirror quitch loft gignel	laasit	Mirror switch	Operated (left)	0 – 1
(G)	Ground	Mirror switch left signal	Input	MITOR SWITCH	Other than the above	4 - 6
5 (R)	Ground	Door mirror sensor (pas- senger side) up/down signal	Input	Door mirror RH p	osition	Change between 3.4 (close to peak) 0.6 (close to valley)
6 (W)	Ground	Door mirror sensor (driv- er side) up/down signal	Input	Door mirror LH po	osition	Change between 3.4 (close to peak) 0.6 (close to valley)
8 (GR)	Ground	UART communication (TX/RX)	Output	Ignition switch Of	N	10msec/div 10msec/div 5V/div JMJIA1391ZZ
10	Ground	Door mirror motor (pas- senger side) up output	Output	Door mirror RH	Operate (up)	9 - 16
(B)	Ground	signal	Juiput		Other than the above	0 – 1
11	Ground	Door mirror motor (pas- senger side) left output	Output	Door mirror RH	Operate (left)	9 – 16
(GR)	Ground	signal	Juiput		Other than the above	0 – 1

## AUTOMATIC DRIVE POSITIONER CONTROL UNIT

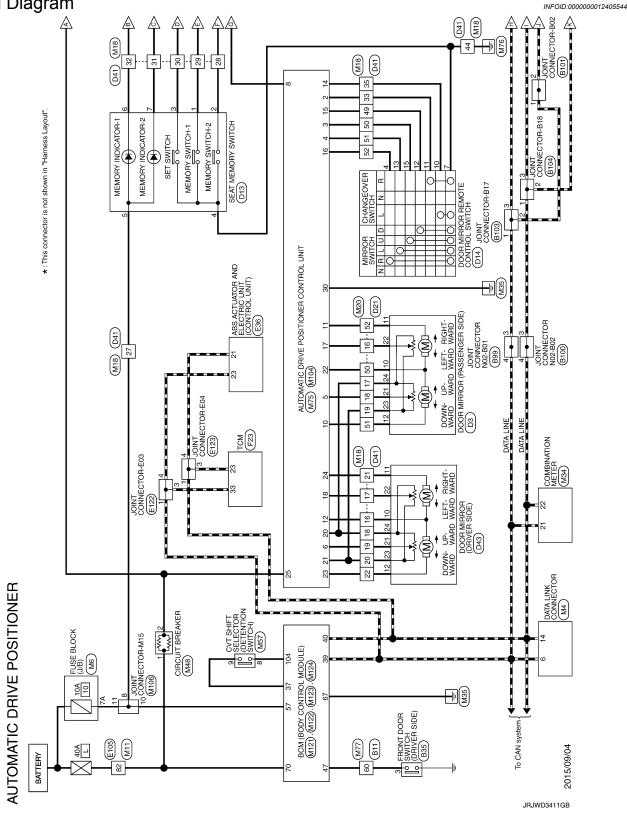
#### < ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description		Cor	odition	Voltage (V)
+	-	Signal name	Input/ Output	Cor	ndition	Voltage (V)
12	Ground	Door mirror motor (driver side) down/right output	Output	Door mirror (LH)	Operate (down/right)	9 – 16
(W)	Ground	signal	Output		Other than the above	0 – 1
14		Changeover switch LH		Changeover	LH	0 – 1
(W)	Ground	signal	Input	switch position	Other than the above	4 - 6
15	Cround	Mirror switch down sig-	laaut	Mirror owitch	Operate (down)	0 – 1
(R)	Ground	nal	Input	Mirror switch	Other than the above	4 - 6
16	Organis		ا مرد ا	Mimorovitale	Operate (right)	0 – 1
(P)	Ground	Mirror switch right signal	Input	Mirror switch	Other than the above	4 - 6
17 (G)	Ground	Door mirror sensor (pas- senger side) left/right signal	Input	Door mirror RH p	osition	Change between 3.4 (close to left edge) 0.6 (close to right edge)
18 (BE)	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 (LG)	Ground	Door mirror motor sen- sor power supply	Input		_	4 - 6
22	Cround	Door mirror motor (pas-	Outout		Operate (down/right)	9 - 16
(W)	Ground	senger side) down/right output signal	Output	Door mirror (RH)	Other than the above	0 – 1
23	Cround	Door mirror motor (driver	Quitout		Operate (up)	9 - 16
(G)	Ground	side) up output signal	Output	Door mirror (LH)	Other than the above	0 – 1
24	Organis	Door mirror motor (driver	Quitari		Operate (left)	9 - 16
(P)	Ground	side) left output signal	Output	Door mirror (LH)	Other than the above	0 – 1
25 (R)	Ground	Battery power supply	Input			9 - 16
30 (GR)	Ground	Ground			_	0 – 1

< WIRING DIAGRAM >

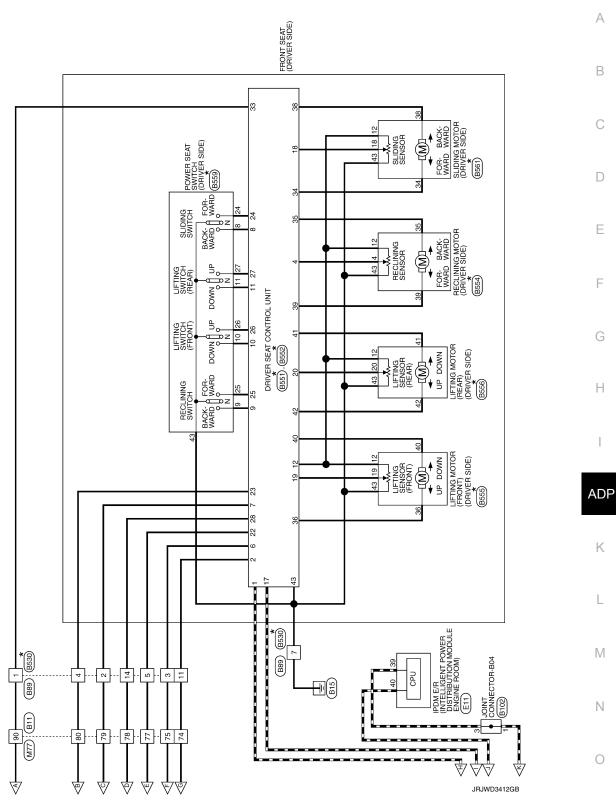
## WIRING DIAGRAM AUTOMATIC DRIVE POSITIONER SYSTEM

## Wiring Diagram



## AUTOMATIC DRIVE POSITIONER SYSTEM

< WIRING DIAGRAM >



AUTOMATIC DRIVE POSITIONER connector Name WIRE TO WIRE		6 LG		
	81 55	11 L 12 P 13 L 14 LG 15 LG 16 GR 00metor No. 899		Connector Type TKG4PA9 4
Signal Name [Specification]	Cometar No. 835 Cometar Name FRONT DOOR SWITCH (DRIVER SIDE) Cometar Type THOLFW-NH	e JOINT CONN e TK04FW-J	TOR NO2-801	Terminal         Color Of         Signal Name [Specification]           No.         Wire         Signal Name [Specification]           1         L         -           2         L         -           3         L         -           4         L         -
	Terminal Color of Signal Name (Specification)	Color Of Write W L	Signal Name (Specification)	Connector Na. 8102 Connector Name JOINT CONNECTOR-804 Connector Type TX04FW-1
	Connector No.         89           Connector Name         WINE TO WINE           Connector Type         MS1ErPucS           Connector Type         MS1ErPucS           MIS         7 6 6 5 4 1 3 2111 10 9 8	Connector No. 8100 Connector Name JOINT CONNET Connector Type TKO4FW-J	8100 Ioint connector no 2-802 Troot-W-J	Terminal Color Of Signal Name (Specification) No. Wire Signal Name (Specification)
	Terminal         Color Of Wire         Signal Name [Specification]           No.         Wire         -           1         Y         -           2         GR         -           3         SB         -           5         V         -	Terminal         Color Of         Sig           No.         Wire         Sig           2         B         9           3         P         9           4         P         9	Signal Name [Specification]	

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Connector Na.       Connector Name       Connector Name       Connector Name       Connector Name       Connector Name       No.       12       12       13       14       10       11       12       13       14       15       16       17       18       19       10       10       11       12       13       14       15       16       17       18       19       10       10       11       12       13       14       15       16       16       17       18       19       10       10       11       12       16       16       17       18       19       10       10       10       11       10       11       10       11       10       10       10 </td <td>D</td>	D	
(UPWARD) (UPWAR	Ε	
RADIT LIFTE MOTOR (LIFE MOTOR (LIFE MAD) REAL LIFTE MOTOR (LIFTE MAD) REAL LIFTE MAD (	F	
Mono         Mono           Manne         Galor Pl           Marrie         R           Marrie         R           V/W         V/N           V/N         V/N           V/N         V/N           V/N         V/N           G         G	G	
	Н	
650         WIET O WIE         Not RE         Signal Name (Specification)         Signal Name (Specification) <td colsp<="" td=""><td>ADP</td></td>	<td>ADP</td>	ADP
Connector No.         BisJ0           Connector No.         BisJ0           Connector No.         NIS 16 NU/CS           Connector No.         NIS 16 NU/CS           Connector No.         NIS 16 NU/CS           No.         N/C	K	
	L	
AUTOMATIC DRIVE POSITIONER Convector Num  International Convectors Num In	Μ	
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JRJWD3414GB

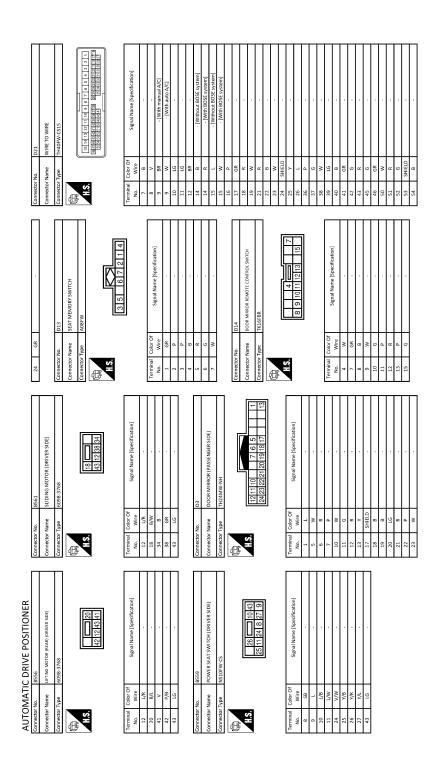
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# AUTOMATIC DRIVE POSITIONER SYSTEM

< WIRING DIAGRAM >

# AUTOMATIC DRIVE POSITIONER SYSTEM

#### < WIRING DIAGRAM >



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Connector No.         Education           Connector Name         A           Terminal         Color of           No.         Y           3         Y           3         F           3         Y           3         Y           3         Y           3         Y           3         Y           3         Y           3         Y           3         Y           3         Y           4         S           3         Y           3         Y           3         Y           4         S           3         Y           3         Y           3         Y           3         Y           3         Y           3         Y           3         Y           3         Y           3         Y           3         Y      <	D
	E
111       111         121       1111         121	F
11         CR         11           13         Y         13         Y           13         Y         Sulf.D         Sulf.D           23         Y         Sulf.D         Sulf.D           23         Y         Sulf.D         Sulf.D           23         Y         Sulf.D         Sulf.D           30         I         I         Sulf.D           31         I         I         Sulf.D           43         Y         Sulf.D         Sulf.D           43         Y         Sulf.D         Sulf.D           44         Y         Sulf.D         Sulf.D           45         Y         Sulf.D         Sulf.D	G
Number of the positioner of the	H
33         5         6           33         7         6           33         7         6           35         6         6           35         7         6           37         6         7           38         6         7           41         6         7           42         6         7           43         6         7           44         7         7           45         7         10           46         7         10           47         6         7           48         8         1           49         9         1           41         7         1           42         6         1           43         1         1           44         9         1           53         54         9           53         6         1           54         9         1           1         1         1           1         1         1           1         1         1           1         1<	ADP K
ONER	L
AUTOMATIC DRIVE POSITIONER	Μ
AUTOMATIC           55         w           55         w           55         w           5         w           5         w           5         w           6         1           1         0	Ν

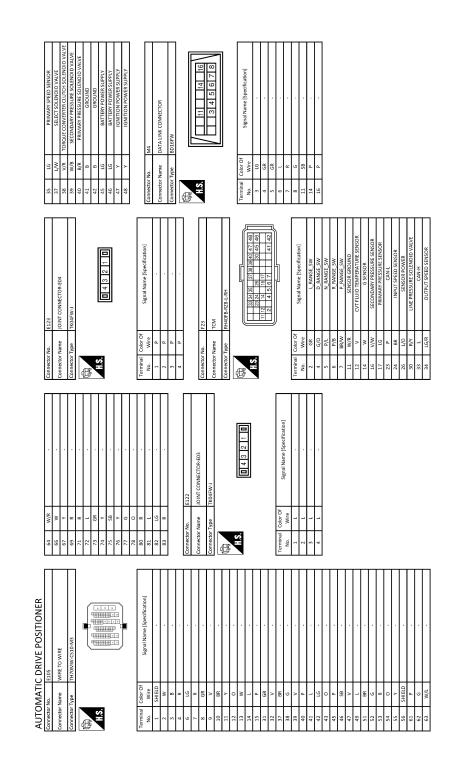
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# AUTOMATIC DRIVE POSITIONER SYSTEM

< WIRING DIAGRAM >



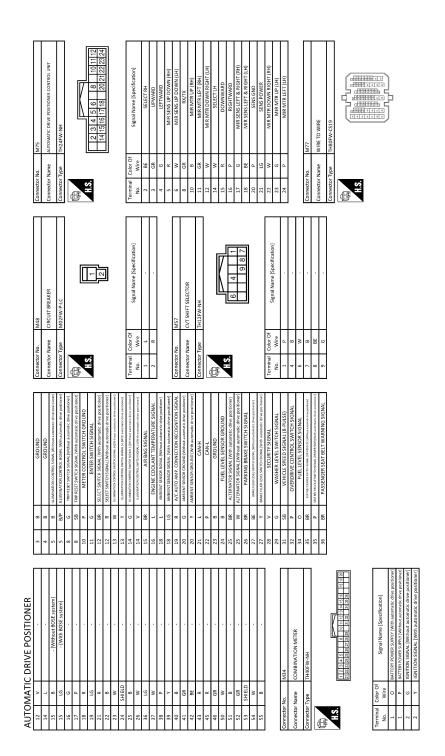
JRJWD3417GB

	A
Signal Name (Specification)	В
Signal Name (Specification)         Signal Name (Specification) <td>С</td>	С
35         W           35         LG           37         W           37         W           37         W           38         V           40         F           41         B           42         B           43         C           44         B           45         C           46         N           47         B           48         C           51         B           52         G           53         B           54         N           53         B           54         W           53         B           54         M           54         M           54         M           53         B           54         M           53         B           54         M           55         M           56         M           57         M           58         M           59         K           50         K	D
Environmental and a second a	E
M18           WIRE TO WIRE           FH400W-CS15           FH400W-CS15           FH400W-CS15           Signal Name [Specification]           - (Wrmout BOSE system)           - (Wrmout BOSE system)           - (Wrmout BOSE system)	F
Connector No.         M           Connector Name         W           Connector Name         W           1         Connector Name           1         V     <	G
Whe positioner]         ve positioner]         Ive positioner]         Ve positioner]         Ve positioner]         ve positioner]	
	ADP
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	K
ONER effication]	L
ITTLE POSITIC BLOCK (JP) Signal Name [5] Signal Name [	Μ
AUTOMATIC D Connector Name Uvis connector Name Vision Connector N	Ν

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# AUTOMATIC DRIVE POSITIONER SYSTEM

< WIRING DIAGRAM >



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	23 W SECURITY IND CONT 25 P NATS ANT AMP.	•	28 BR BLOWERFANON 29 P HAZARD SW				>	: a	× 8	GK	36 R COMBI SW OUTPUT 1	37 G DETENT SUV	p	38 BE RECEIVER COMM	L	d				IINECLOT NO.	Connector Name BCM (BODY CONTROL MODULE)		Connector Type FEA09FB-FHA6-SA	ſ			44 43					Terminal Color Of		╈	+	5	~	R	9	86	49 B ILIGGAGELAMPCONT	, ;	>	,	BR	_	9								
	> >	- ی ی	21 Y - (With automatic drive positioner) 22 G - (Mithout automatic drive positioner)	, > >	. ag		26 V	· 22	- ^ /2	+	29 SB -		+	31 28 .	32 SB -				Γ		Connector Name BCM (BODY CONTROL MODULE)		Connector Type TH40FB-NH	ſ	E		11.24 12 12 12 12 12 12 12 12 12 12 12 12 12 1	21 23 25 27 28 29 30 31 32 33 34 35 39 37 39 39 40				Terminal Color Of	_	╉				4 BE COMBI SW INPUT 3	5 G COMBI SW INPUT 2	6 W COMBLSW INPUT1		; ;	8 GR PW SW CUMMI [With automatic slide door]	-		12 GR DOOR LK & UNLK SW LOCK	BR	14 L OPTICAL SENS	>	16 Y DIMMER	c			GK	
	92 BR -	0		Connector Name AUTOMATIC DRIVE POSITIONER CONTROL UNIT	Connector Type NS06FW-CS						30					Color Of	No Wire Signal Name [Specification]	1	: :	30 GK GKUUND			Connector No. M106	Competer Name IOINT CONNECTOR AND	2	Connector Type BJ30FW			c			<b>7</b> 33 32 31 30 29 28 27 26 25 24 23			7	_	No. Wire	1 8 -	2 8 -		+		· ·	- L	8 GR -	- γ 6	10 Y -	11 Y .	12 R -	14 R -	15 B		· · · · · · · · · · · · · · · · · · ·	18 Y -	
AUTOMATIC DRIVE POSITIONER	Terminal Color Of Signal Name [Specification] No. Write		12 BE	╉	-	30 P -		27 SUIGIN	SUIELU	B - [Witnout around view mo	>	α	•	+	40 R -				╇		55 L -	57 Y -	-		60 G -	_			64 R -	65 6 -	66 SHIELD -	-				t	_	72 G -				1	/8 K ·	-	80 G		82 W -		88 LG -		~	V [Without automatic drive pus	+	_	

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# AUTOMATIC DRIVE POSITIONER SYSTEM < WIRING DIAGRAM >

< WIRING DIAGRAM >

PASS DOOR ANT+	PASS DOOR ANT-	REAR BMPR ANT+	REAR BMPR ANT-	ROOM ANT1+	ROOM ANT1-	ROOM ANT2+	ROOM ANT2-	LAGGAGE ROOM ANT+	LAGGAGE ROOM ANT-	PUSH-BTN IGN SW ILL PWR SPLY	LOCK IND	PUSH-BTN IGN SW ILL GND	I-KEY WARN BUZZER	ACC RELAY CONT OUTPUT	STARTER RELAY CONT	IGN RELAY (IPDM E/R) CONT	IGN RELAY (F/B) CONT OUTPUT	PASS DOOR REQ SW	IGN PWR SPLY 2	NO LI DO LA DO	CVT SHIFT SELECT PWR SPLY	STOP LAMP SW 2	BLWR RELAY CONT OUTPUT	ACCIND
GR	BE	9	я	GR	8	w	BE	GR	8	٩	w	8	я	BE	N	Ь	9	я	Я	٩	ŗ	Я	0	~
80	81	82	83	84	85	86	87	88	68	90	91	92	53	96	97	98	66	100	101	102	104	105	106	109



Signal Name [Specification]	INT ROOM LAMP PWR SPLY	BAT	AIRBAG	PASS DOOR UNLK OUTPUT	TURN SIG LH OUTPUT	TURN SIG RH OUTPUT	STEP LAMP CONT	INT ROOM LAMP CONT	CRANK REQ	ALL DOOR LOCK OUTPUT	DR DOOR UNLK OUTPUT	GROUND	PW PWR SPLY (IGN)	PW PWR SPLY (BAT)	BAT
Color Of Wire	٩	٢	0	SB	>	9	w	R	w	٨	U	8	٦	٩	ſ
Terminal No.	56	57	58	59	60	61	62	63	64	65	99	67	68	69	70

Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FW-NH
H.S.	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)

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Signal Name [Specification]	ON IND	DR DOOR REQ SW	PUSH SW	DR DOOR ANT+	DR DOOR ANT-
Color Of Wire	9	9	٨	B	w
Terminal No.	73	75	92	78	79

JRJWD3421GB

< BASIC INSPECTION >

# BASIC INSPECTION DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:000000012405545 B

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#### **OVERALL SEQUENCE**



JMJIA1702GB

DETAILED FLOW

**Revision: October 2015** 

## 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-31, "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 ADP-112, "Description".

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-41, "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?

**Revision: October 2015** 

ADP-46

## 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:000000012405546

Each function is reset to the following condition when the battery terminal is disconnected. Refer to <u>ADP-48</u>, <u>"Work Procedure"</u>

Function	Condition	Procedure
Memory (Seat, mirror)	Erased	Perform storing
		Perform initialization
Entry/exit assist	ON	Set slide amount <sup>*</sup>
Intelligent Kov interlock	Erased	Perform initialization
Intelligent Key interlock	Elased	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:000000012405547

# **1.**SYSTEM INITIALIZATION

Perform system initialization. Refer to ADP-50, "Description".

#### >> GO TO 2.

# 2.MEMORY STORAGE

Perform memory storage. Refer to <u>ADP-51, "Description"</u>.

#### >> GO TO 3.

#### **3.**INTELLIGENT KEY INTERLOCK STORAGE

Perform Intelligent Key interlock storage. Refer to ADP-52, "Description".

## >> GO TO 4.

#### **4**.SYSTEM SETTING

Perform system setting. Refer to ADP-53, "Description".

>> END

# ADDITIONAL SERVICE WHEN REMOVING DRIVER SEAT CONTROL UNIT

< BASIC INSPECTION >

# ADDITIONAL SERVICE WHEN REMOVING DRIVER SEAT CONTROL UNIT

## Description

INFOID:000000012405548

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Each function is reset to the following condition when the driver seat control unit is replaced. Refer to <u>ADP-49</u>, <u>"Work Procedure"</u>

Function	Condition	Procedure
Memory (Seat, mirror)	Erased	Perform storing
Entry/exit assist	ON	Perform initialization
		Set slide amount <sup>*</sup>
Intelligent Key interlock	Erased	Perform initialization
intelligent Rey Intellock	Liased	Perform storing
: Default value is 40 mm.		
NOTE: Notice that disconnecting the battery when dete	ected DTC are pres	ent will erase the DTC memory.
Work Procedure		· · · · · ·
		INFOID:0000000
<b>1.</b> SYSTEM INITIALIZATION		
Perform system initialization. Refer to ADP-50.	"Description".	
>> GO TO 2.		
2.MEMORY STORAGE		
Perform memory storage. Refer to <u>ADP-51, "De</u>	escription".	
>> GO TO 3.		
3.INTELLIGENT KEY INTERLOCK STORAGI	F	
Perform Intelligent Key interlock storage. Refer		ntion"
	to ADF-52, Desch	<u>puon</u> .
>> GO TO 4.		
<b>4.</b> SYSTEM SETTING		
Perform system setting. Refer to ADP-53, "Des	scription".	
, , , , , , , , , , , , , , , , , , , ,		
>> END		

#### SYSTEM INITIALIZATION

#### < BASIC INSPECTION >

## SYSTEM INITIALIZATION

#### Description

INFOID:000000012405550

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. Refer to <u>ADP-50</u>, "Work <u>Procedure"</u>

#### Work Procedure

INFOID:000000012405551

#### **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. Refer to <u>ADP-51</u>. <u>"Work Procedure"</u>

## 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.**REGISTRATION METHOD

- 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.
- 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  $_{\rm H}$  5 seconds.
- 4. Confirm the operation of each part with memory operation.

>> END

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INFOID:000000012405552

INFOID:000000012405553

## INTELLIGENT KEY INTERLOCK STORING

#### < BASIC INSPECTION >

# INTELLIGENT KEY INTERLOCK STORING

#### Description

INFOID:000000012405554

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. Refer to <u>ADP-52</u>, "Work Procedure"

## Work Procedure

INFOID:000000012405555

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. Push the Intelligent Key unlock button within 5 seconds after pushing memory switch (while the memory

 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. Refer to <u>ADP-53</u>, "Work Procedure"

## SETTING CHANGE

С

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	E
Entry/exit assist (seat)	Entry/exit assist (seat) can be selected: ON (operated) – OFF (not operated)	x	x	ON	

## Work Procedure

## **1.**STEP 1

There are two ways of setting method.

Which method do you choose?

With CONSULT>>GO TO 2. With set switch>>GO TO 3.

2.STEP 2-A (WITH CONSULT)

1. Select "Work support".

2. Select "EXIT SEAT SLIDE SETTING" then touch display to change between ON and OFF.

- EXIT SEAT SLIDE SETTING: Entry/exit assist (seat)

3. Select "SEAT SLIDE VOLUME SET" and touch either of "40 mm", "80 mm", or "150 mm".

Then touch "OK".

>> GO TO 4.

**3.**STEP 2-B (WITH SET SWITCH)

1. Turn ignition switch OFF.

2. Push set switch and hold for more than 10 seconds.

#### >> GO TO 4.

#### **4.**CONFIRM THE OPERATION

Check the entry/exit assist function setting is changed.

#### Is the setting changed?

YES >> END NO >> GO TO 1. В

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# DTC/CIRCUIT DIAGNOSIS U1000 CAN COMM CIRCUIT

# Description

INFOID:000000012405558

INFOID:000000012405559

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	<ul> <li>Driver seat control unit cannot communicate to other control units.</li> <li>When driver seat control unit cannot communicate CAN communication signal continuously for 2 seconds or more.</li> </ul>	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-54</u>, "Diagnosis Procedure".

NO >> INSPECTION END

#### Diagnosis Procedure

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

Special Repair Requirement

Refer to ADP-50, "Description".

INFOID:000000012405560

INFOID:000000012405561

**Revision: October 2015** 

#### U1010 CONTROL UNIT (CAN)

# < DTC/CIRCUIT DIAGNOSIS >

# U1010 CONTROL UNIT (CAN)

# **DTC Logic**

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#### 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-113, "Removal and Installation"</u>.

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#### < DTC/CIRCUIT DIAGNOSIS >

# **B2112 SLIDING MOTOR**

## **DTC Logic**

INFOID:000000012405564

#### 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.	<ul> <li>Driver seat control unit</li> <li>Slide motor harness is shorted</li> </ul>

#### 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 ADP-56, "Diagnosis Procedure".
- 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
	38	Ground	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.

(·	(+)		Voltage (V)
Driver seat control unit		(-)	
Connector	Terminals		
B551	34	Ground	0 – 1
8001	38	Giouna	0 – 1

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace driver seat control unit. Refer to <u>ADP-113</u>, "Removal and Installation".

**3**.CHECK INTERMITTENT INCIDENT

Refer to GI-41, "Intermittent Incident".

>> INSPECTION END

INFOID:000000012405565

## **B2113 RECLINING MOTOR**

#### < DTC/CIRCUIT DIAGNOSIS >

# B2113 RECLINING MOTOR

# DTC Logic

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INFOID:000000012405566

DTC No.	Trouble diagnosi name	S DTC deter	cting condition	Possible cause
B2113	SEAT RECLINING		unit detects the output of re- ninal for 0.1 second or more tch is not input.	<ul> <li>Driver seat control unit</li> <li>Reclining motor harness is shorted</li> </ul>
TC CONF	IRMATION PRC	CEDURE		
.PERFOR	M DTC CONFIRM	IATION PROCEDURE		
Check "S <u>the DTC d</u> (ES >> F NO >> I	etected? Refer to <u>ADP-57.</u> NSPECTION EN	sult" with CONSULT. " <u>Diagnosis Procedure"</u> . D		
lagnosis	Procedure			INFOID:0000000124
.CHECK F	RECLINING MOTO	OR CIRCUIT (POWER S	SHORT)	
		r connector and driver s clining motor harness co		tor.
			(-)	
	Reclining	motor	(-)	Voltage (V)
C	Reclining	motor Terminals	(-)	Voltage (V) (Approx.)
C	_		(-) Ground	
	onnector	Terminals 35 39		(Approx.)
<u>the inspec</u> (ES >> ( NO >> F	bionnector B554 tion result normal GO TO 2. Repair or replace	Terminals 35 39	- Ground	(Approx.)
the inspec (ES >> ( NO >> F .CHECK D Connect	onnector B554 GO TO 2. Repair or replace ORIVER SEAT CC driver seat contro	Terminals 35 39 ? harness or connector. NTROL UNIT OUTPUT	Ground	(Approx.) 0
the inspec (ES >> ( NO >> F .CHECK D Connect	onnector B554 tion result normal GO TO 2. Repair or replace ORIVER SEAT CC driver seat contro oltage between dr	Terminals 35 39 ? harness or connector. NTROL UNIT OUTPUT ol unit connector. iver seat control unit ha	Ground SIGNAL rness connector and gr	(Approx.) 0
the inspec (ES >> ( NO >> F .CHECK D Connect Check ve	onnector B554 tion result normal GO TO 2. Repair or replace DRIVER SEAT CC driver seat contro oltage between dr (+) Driver seat co	Terminals 35 39 ? harness or connector. NTROL UNIT OUTPUT ol unit connector. iver seat control unit ha	Ground	(Approx.) 0
the inspec (ES >> ( NO >> F .CHECK D Connect Check ve	onnector B554 tion result normal GO TO 2. Repair or replace ORIVER SEAT CC driver seat contro oltage between dr	Terminals 35 39 ? harness or connector. NTROL UNIT OUTPUT ol unit connector. iver seat control unit ha ontrol unit Terminals	Ground SIGNAL rness connector and gr	(Approx.) 0
the inspec (ES >> ( NO >> F .CHECK D Connect Check ve	onnector B554 tion result normal GO TO 2. Repair or replace DRIVER SEAT CC driver seat contro oltage between dr (+) Driver seat co	Terminals 35 39 ? harness or connector. NTROL UNIT OUTPUT ol unit connector. river seat control unit ha ontrol unit Terminals 35	Ground SIGNAL rness connector and gr	(Approx.) 0
the inspec (ES >> ( NO >> F .CHECK D Connect Check ve	onnector B554 tion result normal GO TO 2. Repair or replace ORIVER SEAT CC driver seat contro oltage between dr (+) Driver seat c onnector B551	Terminals 35 39 ? harness or connector. NTROL UNIT OUTPUT ol unit connector. iver seat control unit ha ontrol unit Terminals 35 39	Ground SIGNAL rness connector and gr	(Approx.) 0 ound.
the inspec (ES >> ( NO >> F .CHECK D Connect Check ve 	onnector B554 GO TO 2. Repair or replace RIVER SEAT CC driver seat contro oltage between dr (+) Driver seat c onnector B551 tion result normal GO TO 3.	Terminals 35 39 ? harness or connector. NTROL UNIT OUTPUT of unit connector. iver seat control unit ha ontrol unit Terminals 35 39 ? at control unit. Refer to 4	Ground SIGNAL rness connector and gr (-) Ground	(Approx.) 0 ound. Voltage (V) 0 – 1

#### < DTC/CIRCUIT DIAGNOSIS >

# B2128 UART COMMUNICATION LINE

#### Description

INFOID:000000012405568

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:000000012405569

#### 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.	<ul> <li>UART communication line (UART communication line is open or shorted)</li> <li>Driver seat control unit</li> <li>Automatic drive positioner control unit</li> </ul>

#### 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-58</u>, "Diagnosis Procedure".

NO >> INSPECTION END

#### Diagnosis Procedure

INFOID:000000012405570

#### 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	t control unit	ol unit Automatic drive positioner		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-41, "Intermittent Incident"</u>.

NO >> Repair or replace harness or connector.

#### **B2130 EEPROM**

## < DTC/CIRCUIT DIAGNOSIS >

# B2130 EEPROM

# DTC Logic

D	DTC Logic							
DT	C 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				
		RMATION PROCE			D			
1. 2. Is 1	<ol> <li>Turn ignition switch ON.</li> <li>Check "Self diagnostic result" with CONSULT.</li> <li>Is the DTC detected?</li> </ol>							
-	YES >> Refer to <u>ADP-59</u> , " <u>Diagnosis Procedure</u> ". NO >> INSPECTION END							
Di	agnosis	Procedure		INFOID:000000012405572				

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

>> INSPECTION END

**1.**REPLACE DRIVER SEAT CONTROL UNIT

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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:000000012405573

#### 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	33	Ground	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:000000012405574

#### 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 >

the inequation result normal	10			
s the inspection result norma YES >> GO TO 2.	<u>1?</u>			A
	n fuse after repairing the af	fected circuit.		1
CHECK AUTOMATIC DRIV			LY	
. Turn ignition switch OFF.				— В
	e positioner control unit co	nnector.		
	utomatic drive positioner co		ector and ground.	C
(+	)			_
Automatic drive pos		(-)	Voltage (V)	
Connector	Terminals			D
M104	25	Ground	9 – 16	
s the inspection result norma			-	- E
YES >> GO TO 3.	<u></u>			
NO-1 >> Repair or replace	harness between driver se		e link L (40 A).	
		orv/		
NO-2 >> Check circuit brea	•	•		F
NO-2 >> Check circuit brea	•	•	CUIT	F
	VE POSITIONER CONTRO	L UNIT GROUND CIRC		F
CHECK AUTOMATIC DRINC Check continuity between the	VE POSITIONER CONTRC automatic drive positioner	L UNIT GROUND CIRC		G
CHECK AUTOMATIC DRINC Check continuity between the Automatic drive pos	VE POSITIONER CONTRC automatic drive positioner o	DL UNIT GROUND CIRC		
CHECK AUTOMATIC DRIN Check continuity between the Automatic drive pos Connector	VE POSITIONER CONTRO automatic drive positioner o itioner control unit Terminal	L UNIT GROUND CIRC	nector and ground.	G
CHECK AUTOMATIC DRIN Check continuity between the Automatic drive pos Connector M104	VE POSITIONER CONTRO automatic drive positioner o itioner control unit Terminal 30	DL UNIT GROUND CIRC	nector and ground.	
CHECK AUTOMATIC DRIN Check continuity between the Automatic drive pos Connector M104 s the inspection result norma	VE POSITIONER CONTRO automatic drive positioner o itioner control unit Terminal 30	DL UNIT GROUND CIRC	nector and ground.	
CHECK AUTOMATIC DRIN Check continuity between the Automatic drive pos Connector M104 Sthe inspection result norma YES >> INSPECTION EN	VE POSITIONER CONTRO automatic drive positioner o itioner control unit Terminal 30 I? ID	DL UNIT GROUND CIRC	nector and ground.	
CHECK AUTOMATIC DRIN Check continuity between the Automatic drive pos Connector M104 Sthe inspection result norma YES >> INSPECTION EN	VE POSITIONER CONTRO automatic drive positioner o itioner control unit Terminal 30 I? ID	DL UNIT GROUND CIRC	nector and ground.	
CHECK AUTOMATIC DRIN check continuity between the Automatic drive pos Connector M104 the inspection result norma YES >> INSPECTION EN	VE POSITIONER CONTRO automatic drive positioner o itioner control unit Terminal 30 I? ID	DL UNIT GROUND CIRC	nector and ground.	F
CHECK AUTOMATIC DRIN Check continuity between the Automatic drive pos Connector M104 Sthe inspection result norma YES >> INSPECTION EN	VE POSITIONER CONTRO automatic drive positioner o itioner control unit Terminal 30 I? ID	DL UNIT GROUND CIRC	nector and ground.	F
CHECK AUTOMATIC DRIN check continuity between the Automatic drive pos Connector M104 the inspection result norma YES >> INSPECTION EN	VE POSITIONER CONTRO automatic drive positioner o itioner control unit Terminal 30 I? ID	DL UNIT GROUND CIRC	nector and ground.	
CHECK AUTOMATIC DRIN theck continuity between the Automatic drive pos Connector M104 the inspection result norma YES >> INSPECTION EN	VE POSITIONER CONTRO automatic drive positioner o itioner control unit Terminal 30 I? ID	DL UNIT GROUND CIRC	nector and ground.	- F
CHECK AUTOMATIC DRIN check continuity between the Automatic drive pos Connector M104 the inspection result norma YES >> INSPECTION EN	VE POSITIONER CONTRO automatic drive positioner o itioner control unit Terminal 30 I? ID	DL UNIT GROUND CIRC	nector and ground.	
CHECK AUTOMATIC DRIN heck continuity between the Automatic drive pos Connector M104 the inspection result norma YES >> INSPECTION EN	VE POSITIONER CONTRO automatic drive positioner o itioner control unit Terminal 30 I? ID	DL UNIT GROUND CIRC	nector and ground.	
CHECK AUTOMATIC DRIV heck continuity between the Automatic drive pos Connector M104 the inspection result norma (ES >> INSPECTION EN	VE POSITIONER CONTRO automatic drive positioner o itioner control unit Terminal 30 I? ID	DL UNIT GROUND CIRC	nector and ground.	
Automatic drive pos CONNECTION CONNECTION CONNECTION CONNECTION CONNECTION CONNECTION EN CONNECTION EN CONNECTION EN	VE POSITIONER CONTRO automatic drive positioner o itioner control unit Terminal 30 I? ID	DL UNIT GROUND CIRC	nector and ground.	

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# < DTC/CIRCUIT DIAGNOSIS >

# SLIDING SWITCH

## Component Function Check

INFOID:000000012405575

# 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	Co	Condition	
SLIDE SW-FR Slidin	Sliding switch (forward)	Operate	ON
	Silding switch (lorward)	Release	OFF
SLIDE SW-RR Sliding switch (bac	Sliding switch (backward)	Operate	ON
	Siluling Switch (Dackward)	Release	OFF

#### Is the indication normal?

YES >> INSPECTION END NO >> Refer to <u>ADP-62, "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	Power seat switch		Voltage (V)	
Connector	Terminals			
B559	8	Ground	9 – 16	
B339	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 seat	Driver seat control unit		Power seat switch	
Connector	Terminal	Connector	Terminal	Continuity
B552	8	B559	8	Existed
D332	24	6339	24	LAISIEU

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

	Driver seat control unit			Continuity
	Connector	Terminal	Ground	Continuity
	B552	8	Ground	Not existed
		24		NUL EXISIEU

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-113, "Removal and Installation"</u>.

INFOID:000000012405576

# **SLIDING SWITCH**

< D	TC/CIRCUIT DIAG	NOSIS >					
N	NO >> Repair or replace harness or connector.						
3.	3. CHECK SLIDING SWITCH						
Re	fer to <u>ADP-63, "Com</u>	oonent Inspection".					
<u>ls t</u>	Is the inspection result normal?						
	<ul> <li>YES &gt;&gt; Check intermittent incident. Refer to <u>GI-41. "Intermittent Incident"</u>.</li> <li>NO &gt;&gt; Replace power seat switch. Refer to <u>ADP-116, "Removal and Installation"</u>.</li> </ul>						
Сс	Component Inspection INFOID-000000012405577					С	
1.	CHECK SLIDING SV	VITCH					
1.	Turn ignition switch					D	
2. 3.		eat switch (sliding sw	/itch) connector. /itch (sliding switch) tern	ningle under the follow	ving conditions		
0.	Check continuity be				ing conditions.	Е	
-	Power seat switc	h (Sliding switch)	Cond	ition	Continuity		
Terminal Condition Continuity					Continuity		
						_	
_	8		Sliding switch (backward)	Operate	Existed	F	
-	8	43	Sliding switch (backward)	Operate Release	Existed Not existed	F	

Sliding switch (forward)

Operate

Release

Is the inspection result normal?

24

YES >> INSPECTION END

>> Replace power seat switch. Refer to <u>ADP-116, "Removal and Installation"</u>. NO

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Existed

Not existed

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# < DTC/CIRCUIT DIAGNOSIS >

# RECLINING SWITCH

## Component Function Check

INFOID:000000012405578

# 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 (for	Peclining switch (forward)	Operate	ON
RECEINE SW-I R	Reclining switch (forward)	Release	OFF
RECLINE SW-RR Reclining switch (backward)	Operate	ON	
	Reclining Switch (Dackward)	Release	OFF

#### Is the indication normal?

YES >> INSPECTION END

NO >> Refer to <u>ADP-64. "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 se	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 sea	Driver seat control unit		Power seat switch	
Connector	Terminal	Connector	Terminal	Continuity
B552	9	B559	9	Existed
D332	25	6339	25	LXISIEU

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

Driver sea	Driver seat control unit		Continuity
Connector	Terminal	Ground	Continuity
B552	9	Ground	Not existed
B332	25		NOT EXISTEN

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-113, "Removal and Installation"</u>.

INFOID:000000012405579

# **RECLINING SWITCH**

< DTC/CIRCUIT DIAG	NOSIS >					
NO >> Repair or re	eplace harness or cor	nnector.				
3.CHECK RECLINING	SWITCH				А	
Refer to ADP-65, "Com	ponent Inspection".					
Is the inspection result normal?						
		er to <u>GI-41, "Intermittent In</u> er to <u>ADP-116, "Removal</u>				
Component Inspec	Component Inspection					
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		
9		Poolining switch (backward)	Operate	Existed	F	
9	43	Reclining switch (backward)	Release	Not existed		
25	45	Reclining switch (forward)	Operate	Existed	G	
23			Release	Not existed	-	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to <u>ADP-116, "Removal and Installation"</u>.

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**Revision: October 2015** 

#### < DTC/CIRCUIT DIAGNOSIS >

# 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
	Enting 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-66. "Diagnosis Procedure"</u>.

#### Diagnosis Procedure

INFOID:000000012405582

# 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 s	eat switch	(-)	Voltage (V)	
Connector	Terminals			
B559	10	Ground	9 – 16	
B009	26	Ground	9 - 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	LAISIEU

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

-	Driver seat control unit			Continuity
_	Connector	Terminal	Ground	Continuity
_	P552	10	Ground	Not ovisted
	B552	26		Not existed

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-113, "Removal and Installation"</u>.

INFOID:000000012405581

# LIFTING SWITCH (FRONT)

 NO
 >> Repair or replace harness or connector.

 **3.** CHECK LIFTING SWITCH (FRONT)

 Refer to <u>ADP-67, "Component Inspection"</u>.

 Is the inspection result normal?

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

 NO
 >> Replace power seat switch. Refer to <u>ADP-116, "Removal and Installation"</u>.

 Component Inspection

 1. CHECK LIFTING SWITCH (FRONT)

 1. Turn ignition switch OFF.

 2. Disconnect power seat switch (lifting switch front) connector.

Disconnect power seat switch (lifting switch front) connector.
 Check continuity between power seat switch (lifting switch front) terminals under the following conditions.

	Orationity	Condition		(lifting switch front)	Power seat switch
	Continuity		Condition	Terminal	
-	Existed	Operate	Lifting quitch front (down)		10
-	Not existed	Release	Lifting switch front (down)	43	10
_	Existed	Operate	Lifting quitch front (up)	43	26
-	Not existed	Release	Lifting switch front (up)		20

Is the inspection result normal?

< DTC/CIRCUIT DIAGNOSIS >

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to <u>ADP-116, "Removal and Installation"</u>.

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**Revision: October 2015** 

#### < DTC/CIRCUIT DIAGNOSIS >

# LIFTING SWITCH (REAR)

# **Component Function Check**

INFOID:000000012405584

# 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
		Release	OFF
LIFT RR SW-DN	Lifting switch rear (down)	Operate	ON
LIFT RR SW-DN	Litting Switch real (down)	Release	OFF

#### Is the indication normal?

YES >> INSPECTION END

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

#### **Diagnosis** Procedure

INFOID:000000012405585

# 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 s	eat switch	(-)	Voltage (V)
Connector	Terminals		
B559	11	Ground	9 – 16
B008	27	Ground	3-10

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 seat switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B552	11	B559	11	Existed
D332	27	6339	27	LAISIEU

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

Driver seat control unit			Continuity
 Connector	Terminal	Cround	Continuity
 B552	Ground	Not existed	
8552	27		NUL EXISIEU

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-113, "Removal and Installation"</u>.

# LIFTING SWITCH (REAR)

< DTC/CIRCUIT DIAGNOSIS > NO >> Repair or replace harness or connector. **3.**CHECK LIFTING SWITCH (REAR) Refer to ADP-69, "Component Inspection". Is the inspection result normal? YES >> Check intermittent incident. Refer to GI-41, "Intermittent Incident". >> Replace power seat switch. Refer to ADP-116, "Removal and Installation". NO Component Inspection INFOID:000000012405586 1. CHECK LIFTING SWITCH (REAR) 1. Turn ignition switch OFF. 2. Disconnect power seat switch (lifting switch rear) connector. 3. Check continuity between power seat switch (lifting switch rear) terminals under the following conditions.

		lition	Condition		Power seat switch (
	Continuity	nuon	Conc	Terminal	
_	Existed	Operate	Lifting owitch roor (down)		11
_	Not existed	Release	Lifting switch rear (down)	42	11
_	Existed	Operate	Lifting switch rear (up)	43	27
	Not existed	Release	Litting switch rear (up)		21

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to <u>ADP-116, "Removal and Installation"</u>.

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#### < DTC/CIRCUIT DIAGNOSIS >

# SEAT MEMORY SWITCH

### Component Function Check

INFOID:000000012405587

# 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	Condition		Status
MEMORY SW 1	Memory switch 1	Push	ON
	Memory Switch 1	Release	OFF
MEMORY SW 2	Memory switch 2	Push	ON
WEWORT SW 2	Memory Switch 2	Release	OFF
SET SW	Set switch	Push	ON
		Release	OFF

#### Is the indication normal?

- YES >> INSPECTION END
- NO >> Refer to <u>ADP-70, "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.

	(+) Seat memory 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 seat control unit		Seat memory switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
	6	D13	2	
B552	22		1	Existed
	28		3	

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

INFOID:000000012405588

# **SEAT MEMORY SWITCH**

#### < DTC/CIRCUIT DIAGNOSIS >

Drive	er seat control unit			Continuity
Connector	Terr	minal	- Continuit	
		6	Ground	
B552	2	22		Not existed
	2	28		
the inspection result r				
			3. "Removal and Ins	stallation".
NO >> Repair or re CHECK SEAT MEM	place harness or			
			(	
heck continuity betwee	en seat memory s	witch harness conn	ector and ground.	
Sea	t memory switch			Continuity
Connector	Terr	minal	Ground	Continuity
D13		4		Existed
<u>the inspection result r</u> YES >> GO TO 4.	normal?			
.CHECK SEAT MEMO	ORY SWITCH			
efer to <u>ADP-71, "Com</u> the inspection result r	ponent Inspection normal?			
efer to <u>ADP-71, "Comp</u> the inspection result r YES >> Check inter	oonent Inspection normal? mittent incident. R	Refer to <u>GI-41, "Inte</u>		llotion"
efer to <u>ADP-71, "Comp</u> <u>the inspection result r</u> YES >> Check inter NO >> Replace set	normal? mormal? mittent incident. R at memory switch	Refer to <u>GI-41, "Inte</u>	r <u>mittent Incident"</u> . "Removal and Insta	<u>Illation"</u> .
efer to <u>ADP-71, "Comp</u> the inspection result r YES >> Check inter	normal? mormal? mittent incident. R at memory switch	Refer to <u>GI-41, "Inte</u>		<u>llation"</u> . <sup>INFOID:00000001240</sup>
efer to <u>ADP-71, "Comp</u> <u>the inspection result r</u> YES >> Check inter NO >> Replace set	oonent Inspection normal? mittent incident. R at memory switch	Refer to <u>GI-41, "Inte</u>		
efer to <u>ADP-71, "Comp</u> <u>the inspection result r</u> YES >> Check inter NO >> Replace set <b>component Inspec</b> .CHECK SEAT MEMO Turn ignition switch Disconnect seat me	oonent Inspection normal? mittent incident. R at memory switch ction ORY SWITCH OFF. emory switch conn	Refer to <u>GI-41, "Inte</u> . Refer to <u>ADP-115</u> . nector.		INFOID:00000001240
efer to <u>ADP-71, "Comp</u> <u>the inspection result r</u> YES >> Check inter NO >> Replace set <b>component Inspec</b> .CHECK SEAT MEMO Turn ignition switch Disconnect seat me	oonent Inspection normal? mittent incident. R at memory switch tion ORY SWITCH OFF. emory switch conn tween seat memo	Refer to <u>GI-41, "Inte</u> . Refer to <u>ADP-115</u> . nector.	"Removal and Insta under the following	INFOID:0000000124
efer to <u>ADP-71, "Comp</u> <u>the inspection result r</u> YES >> Check inter NO >> Replace set <b>component Inspec</b> .CHECK SEAT MEMC Turn ignition switch Disconnect seat me Check continuity be	oonent Inspection normal? mittent incident. R at memory switch ction ORY SWITCH OFF. emory switch conn otween seat memo	Refer to <u>GI-41, "Inte</u> . Refer to <u>ADP-115</u> . nector.	"Removal and Insta	INFOID:00000001240
efer to <u>ADP-71, "Comp</u> <u>the inspection result r</u> YES >> Check inter NO >> Replace set <b>omponent Inspec</b> .CHECK SEAT MEMO Turn ignition switch Disconnect seat me Check continuity be <u>Seat mem</u> Term	oonent Inspection normal? mittent incident. R at memory switch ction ORY SWITCH OFF. emory switch conn otween seat memo	Refer to <u>GI-41, "Inte</u> . Refer to <u>ADP-115</u> nector. Dry switch terminals	"Removal and Insta under the following	INFOID:0000000124
efer to <u>ADP-71, "Comp</u> the inspection result r YES >> Check inter NO >> Replace set <b>component Inspec</b> .CHECK SEAT MEMO Turn ignition switch Disconnect seat me Check continuity be Seat mem	oonent Inspection normal? mittent incident. R at memory switch ction ORY SWITCH OFF. emory switch conn otween seat memo	Refer to <u>GI-41, "Inte</u> . Refer to <u>ADP-115</u> . nector.	"Removal and Insta under the following Condition	conditions.
efer to <u>ADP-71, "Comp</u> <u>the inspection result r</u> YES >> Check inter NO >> Replace set <b>omponent Inspec</b> .CHECK SEAT MEMO Turn ignition switch Disconnect seat me Check continuity be <u>Seat mem</u> Term 1	ponent Inspection normal? mittent incident. R at memory switch ction ORY SWITCH OFF. emory switch conn stween seat memo ory switch	Refer to <u>GI-41, "Inte</u> . Refer to <u>ADP-115</u> nector. Dry switch terminals	"Removal and Insta under the following Condition Push	conditions.
efer to <u>ADP-71, "Comp</u> <u>the inspection result r</u> YES >> Check inter NO >> Replace set <b>omponent Inspec</b> .CHECK SEAT MEMO Turn ignition switch Disconnect seat me Check continuity be <u>Seat mem</u> Term	oonent Inspection normal? mittent incident. R at memory switch ction ORY SWITCH OFF. emory switch conn otween seat memo	Refer to <u>GI-41, "Inte</u> . Refer to <u>ADP-115</u> nector. Dry switch terminals	"Removal and Insta under the following Condition Push Release Push Release	conditions. Continuity Existed Not existed Existed Not existed
efer to <u>ADP-71, "Comp</u> <u>the inspection result r</u> YES >> Check inter NO >> Replace set <b>omponent Inspec</b> .CHECK SEAT MEMO Turn ignition switch Disconnect seat me Check continuity be <u>Seat mem</u> Term 1	ponent Inspection normal? mittent incident. R at memory switch ction ORY SWITCH OFF. emory switch conn stween seat memo ory switch	Refer to <u>GI-41, "Inte</u> . Refer to <u>ADP-115</u> nector. Dry switch terminals	"Removal and Insta under the following Condition Push Release Push	conditions. Continuity Existed Not existed Existed

NO >> Replace seat memory switch. Refer to <u>ADP-115, "Removal and Installation"</u>.

## DOOR MIRROR REMOTE CONTROL SWITCH

< 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-72</u>, "MIRROR SWITCH : Diagnosis Procedure".

## MIRROR SWITCH : Diagnosis Procedure

INFOID:000000012405591

INFOID 000000012405590

# 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.

(+)			Voltage (V)
Door mirror rem	Door mirror remote control switch		
Connector	Terminal		
	4	Ground	4 – 6
D14	12		
D14	13	Ground	
	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 positioner control unit		Door mirror remote control switch		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
	3	D14	15		
M75	4		13	Existed	
	15		12	LAISted	
	16		4	†	

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

### DOOR MIRROR REMOTE CONTROL SWITCH

#### < DTC/CIRCUIT DIAGNOSIS >

		:			Continuity
Connector	Termin	al			
	3		Ground		
M75	4		e.eu.iu		Not existed
WH O	15				Not Children
	16				
IO >> Repair or r CHECK DOOR MIR. Turn ignition switch	utomatic drive positio eplace harness. ROR REMOTE CON	TROL SWIT	CH GROUND CIRC	UIT	
					<b>J</b>
Connector	or remote control switch Termin	al	Ground		Continuity
D14	7				Existed
ook door mirror rom	ata control awitch				
the inspection result ES >> Check inte IO >> Replace do IRROR SWITCH CHECK MIRROR S Turn ignition switch Disconnect door m	ROR SWITCH : Com normal? rmittent incident. Ref oor mirror remote con I : Component Ir WITCH	er to <u>GI-41, "I</u> trol switch. Ispection witch connec	ntermittent Incident	_	INFOID.00000001
efer to <u>ADP-73, "MIR</u> the inspection result ES >> Check inte IO >> Replace do IRROR SWITCH CHECK MIRROR S Turn ignition switch Disconnect door m Check continuity b	ROR SWITCH : Com normal? rmittent incident. Ref for mirror remote con I : Component Ir WITCH OFF. irror remote control s	er to <u>GI-41, "I</u> trol switch. Ispection witch connec	ntermittent Incident tor. switch terminals un	_	owing conditions.
efer to <u>ADP-73, "MIR</u> the inspection result 'ES >> Check inte IO >> Replace do IRROR SWITCH CHECK MIRROR S Turn ignition switch Disconnect door m Check continuity b	ROR SWITCH : Com normal? rmittent incident. Ref oor mirror remote con I : Component Ir WITCH OFF. irror remote control s etween door mirror re	er to <u>GI-41, "I</u> trol switch. Ispection witch connec	ntermittent Incident	_	
efer to <u>ADP-73, "MIR</u> the inspection result ES >> Check inte O >> Replace do IRROR SWITCH CHECK MIRROR S Turn ignition switch Disconnect door m Check continuity b Door mirror rem Ter	ROR SWITCH : Com normal? rmittent incident. Ref oor mirror remote con I : Component Ir WITCH MOFF. irror remote control s etween door mirror re	er to <u>GI-41, "I</u> trol switch. Ispection witch connec	ntermittent Incident tor. switch terminals un	_	owing conditions.
efer to <u>ADP-73, "MIR</u> the inspection result 'ES >> Check inte IO >> Replace do IRROR SWITCH CHECK MIRROR S Turn ignition switch Disconnect door m Check continuity b	ROR SWITCH : Com normal? rmittent incident. Ref oor mirror remote con I : Component Ir WITCH MOFF. irror remote control s etween door mirror re	er to <u>GI-41, "I</u> trol switch. Ispection witch connec	ntermittent Incident tor. switch terminals un Condition	der the follo	owing conditions. Continuity
efer to <u>ADP-73, "MIR</u> the inspection result ES >> Check inte IO >> Replace do IRROR SWITCH CHECK MIRROR S Turn ignition switch Disconnect door m Check continuity b Door mirror rem Tern 4	ROR SWITCH : Com normal? rmittent incident. Ref oor mirror remote con I : Component Ir WITCH MOFF. irror remote control s etween door mirror re	er to <u>GI-41, "I</u> trol switch. Ispection witch connec	tor. switch terminals un Condition	der the follo	owing conditions. Continuity Existed
efer to <u>ADP-73, "MIR</u> the inspection result ES >> Check inte O >> Replace do IRROR SWITCH CHECK MIRROR S Turn ignition switch Disconnect door m Check continuity b Door mirror rem	ROR SWITCH : Com normal? rmittent incident. Ref foor mirror remote con d : Component Ir WITCH n OFF. irror remote control s etween door mirror re ote control switch minal	er to <u>GI-41. "I</u> trol switch. Ispection witch connec emote control	tor. switch terminals un Condition RIGHT Other than th	der the follo	owing conditions. Continuity Existed Not existed
efer to <u>ADP-73, "MIR</u> the inspection result ES >> Check inte IO >> Replace do IRROR SWITCH CHECK MIRROR S Turn ignition switch Disconnect door m Check continuity b Door mirror rem 4 12	ROR SWITCH : Com normal? rmittent incident. Ref oor mirror remote con I : Component Ir WITCH MOFF. irror remote control s etween door mirror re	er to <u>GI-41, "I</u> trol switch. Ispection witch connec	tor. switch terminals un Condition RIGHT Other than th DOWN	der the follo	Diving conditions. Continuity Existed Not existed Existed
efer to <u>ADP-73, "MIR</u> the inspection result ES >> Check inte IO >> Replace do IRROR SWITCH CHECK MIRROR S Turn ignition switch Disconnect door m Check continuity b Door mirror rem Tern 4	ROR SWITCH : Com normal? rmittent incident. Ref foor mirror remote con d : Component Ir WITCH n OFF. irror remote control s etween door mirror re ote control switch minal	er to <u>GI-41. "I</u> trol switch. Ispection witch connec emote control	tor. switch terminals un Condition RIGHT Other than tt DOWN Other than tt	der the follo	Owing conditions. Continuity Existed Not existed Existed Not existed
efer to <u>ADP-73, "MIR</u> the inspection result ES >> Check inte IO >> Replace do IRROR SWITCH CHECK MIRROR S Turn ignition switch Disconnect door m Check continuity b Door mirror rem 4 12	ROR SWITCH : Com normal? rmittent incident. Ref foor mirror remote con d : Component Ir WITCH n OFF. irror remote control s etween door mirror re ote control switch minal	er to <u>GI-41. "I</u> trol switch. Ispection witch connec emote control	tor. switch terminals un Condition RIGHT Other than tt DOWN Other than tt LEFT	der the follo	Dwing 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

### DOOR MIRROR REMOTE CONTROL SWITCH

< DTC/CIRCUIT DIAGNOSIS >

#### CHANGEOVER SWITCH : Component Function Check

INFOID:000000012405593

#### **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-74</u>, "CHANGEOVER SWITCH : Diagnosis Procedure".

#### CHANGEOVER SWITCH : Diagnosis Procedure

INFOID:000000012405594

### 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	te control switch	(-) Voltage (V)	
Connector	Terminal		
D14	10 11	Ground	4 – 6

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 remo	ote control switch	Continuity	
Connector	Terminal	Connector Terminal		Continuity	
M75	2	D14	11	Existed	
WI7 5	14	014	10	LAISIEU	

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

Automatic drive	Automatic drive positioner control unit		Continuity	
Connector	Terminal	Ground	Continuity	
M75	2	Ground	Not existed	
WI75	14		NOL EXISTED	

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to <u>ADP-114</u>, "<u>Removal and Installation</u>". NO >> Repair or replace harness.

# $3. {\sf check door mirror remote control switch ground circuit}$

1. Turn ignition switch OFF.

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

#### **Revision: October 2015**

#### **ADP-74**

### DOOR MIRROR REMOTE CONTROL SWITCH

#### < DTC/CIRCUIT DIAGNOSIS >

	Door mirror remote control switch				Continuity	
	Connector	Termina	al	Ground	Continuity	
	D14	7			Existed	
Is the i	inspection result norm	al?	· · · · ·			
YES	>> GO TO 4.					
NO	>> Repair or replac	e harness.				
<b>4.</b> CHE	ECK CHANGEOVER	SWITCH				
	door mirror remote co to <u>ADP-75, "CHANGE</u>		: Componer	nt Inspection".		-
<u>Is the i</u>	inspection result norm	al?				
YES NO	>> Check intermitte >> Replace door m			Intermittent Incident".		
CHAM	NGEOVER SWIT	CH : Compo	nent Insp	ection	INFOID:0000000124055	95
<b>1.</b> сн	ECK CHANGEOVER	SWITCH				
1. Tu	Irn ignition switch OFF					-
	sconnect door mirror r					
3. Ch	neck continuity betwee	en door mirror re	mote contro	I switch terminals under	the following conditions.	
	Door mirror remote cor	ntrol switch		Condition	Continuity	
	Terminal			Condition	Continuity	

		Con	dition	Continuity
Terr	ninal	001		Continuity
10	10		LEFT	Existed
10	7	Changeover switch	Other than the above	Not existed
11	11 /	Changeover switch	RIGHT	Existed
Ţ Ţ			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:000000012405596

# 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

- YES >> Check intermittent incident. Refer to GI-41, "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		
SLIDE PULSE Seat sliding		Operate (forward)	Change (increase)*	
	Seat sliding	Operate (backward)	Change (decrease)*	
		Release	No change <sup>*</sup>	

\*: 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-77, "Diagnosis Procedure".

#### 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		ndition	Signal (V) (Reference value)	I
Connector	Terminals				(Relefence value)	
B552	18	Ground	Seat sliding	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-113, "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	1
B552	18	B561	18	Existed	-

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

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INFOID:000000012405597

### 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.

(*	(+)		Voltage (V)	
Sliding motor		(-)		
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	Terminal	Ground	Continuity
B552	12		Not existed

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-113</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 motor			Continuity	
Connector	Connector Terminal		Continuity	
B561	43		Existed	

Is the inspection result normal?

YES >> Replace sliding motor.

NO >> Repair or replace harness or connector.

## RECLINING SENSOR

### 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	Value	
		Operate (forward)	Change (increase)*	
RECLN PULSE	Seat reclining	Operate (backward)	Change (decrease)*	
		Release	No change <sup>*</sup>	

\*: 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-79, "Diagnosis Procedure".

#### 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.

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

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-113</u>, "<u>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 seat control unit		Reclining motor		Continuity	P
Connector	Terminal	Connector	Terminal	Continuity	1
B552	4	B554	4	Existed	-

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

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INFOID:000000012405599

### **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.

(+)			Voltage (V)	
Reclining motor		(-)		
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-113, "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.

Reclining 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	Con	dition	Value	0
	Con		value	
		Operate (up)	Change (increase)*	D
LIFT FR PULSE Sea	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 ADP-81, "Diagnosis Procedure".

#### 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)	I
Connector	Terminals					
B552	19	Ground	Seat Lifting (front)	Operate Other than the	10mSec/div 10mSec/div 2V/div JMJIA0119ZZ 0 – 1 or 4 – 6	ADF K L

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-113. "Removal and Installation"</u>. NO >> GO TO 2.

### 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	t control unit	Lifting motor (front)		Continuity	
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:000000012405601

### 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	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	Driver seat control unit		Lifting motor (front)		
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-113, "Removal and Installation"</u>.
- NO >> Repair or replace harness or connector.

5.check lifting sensor (front) ground circuit

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

Lifting motor (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.

				C
Monitor item		Condition	Value	
		Operate (up)	Change (increase)*	
LIFT RR PULSE	Seat lifting (rear)	Operate (down)	Change (decrease)*	D
		Release	No change <sup>*</sup>	

\*: 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-83, "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.

(+	+)				<b>2</b>	
Driver seat control unit		(-)	Condition		Signal (V) (Reference value)	
Connector	Terminals					
B552	20	Ground	Seat Lifting (rear)	Operate Other than the	10mSec/div	A
				above	0 – 1 or 4 – 6	

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-113, "Removal and Installation". NO >> GO TO 2.

2. CHECK LIFTING SENSOR (REAR) CIRCUIT

Turn ignition switch OFF. 1.

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

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

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

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INFOID:000000012405603

### LIFTING SENSOR (REAR)

#### < DTC/CIRCUIT DIAGNOSIS >

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

# $\mathbf{3}$ .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	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	Driver seat control unit		Lifting motor (rear)	
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-113, "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 mo	otor (rear)		Continuity	
Connector	Connector Terminal		Continuity	
B556	43		Existed	

Is the inspection result normal?

YES >> Replace lifting motor (rear).

NO >> Repair or replace harness or connector.

DTC/CIRCUIT DIAG						
MIRROR SENS	OR					
RIVER SIDE : C	component Funct	tion Check			INFOID:000000012405	5605
.CHECK FUNCTION						
. Select "MIR/SEN L	- _H U-D", "MIR/SEN LI or (driver side) signal					
					Value	
Monitor it	em	Condition		Change betwe	Value	
MIR/SEN LH U-D	Door m	nirror (driver side)		3.4 [V] (close t 0.6 [V] (close t	o peak)	
MIR/SEN LH R-L			Ť	Change betwe 0.6 [V] (close t 3.4 [V] (close t	o left edge)	
the indication norma	<u>l?</u>			1		
YES >> INSPECTI	ON END DP-85, "DRIVER SIDI	F · Diagnosis F	Procedure"			
	Diagnosis Proced	-	TOCCUTE .			
	-				INFOID:000000012405	006
.CHECK DOOR MIR	RROR (DRIVER SIDE	) SENSOR PO	WER SUPPL	Y		
	0.55					
Disconnect door m Turn ignition switcl	nirror (driver side) con h ON.		s connector a	and ground.		
Disconnect door m Turn ignition switcl	hirror (driver side) con h ON. ween door mirror (driv		s connector a	and ground.		
Disconnect door m Turn ignition switch Check voltage betw	hirror (driver side) con h ON. ween door mirror (driv 			and ground.	Voltage (V)	A
Disconnect door m Turn ignition switch Check voltage betw	hirror (driver side) con h ON. ween door mirror (driv	ver side) harnes	s connector a	and ground.	Voltage (V)	A
Disconnect door m Turn ignition switch Check voltage betw	hirror (driver side) con h ON. ween door mirror (driv (+) r mirror (driver side)	ver side) harnes		and ground.	Voltage (V) 4 – 6	А
Disconnect door m Turn ignition switch Check voltage betw Door Connector D43 the inspection result YES >> GO TO 3. NO >> GO TO 2.	nirror (driver side) con h ON. ween door mirror (driv (+) r mirror (driver side) Termina 23 normal?	ver side) harnes	(-) Ground			A
Disconnect door m     Turn ignition switch     Check voltage betw     Connector     D43     the inspection result     YES >> GO TO 3.     NO >> GO TO 2.     CHECK DOOR MIR	hirror (driver side) con h ON. ween door mirror (driv (+) r mirror (driver side) Termina 23 normal?	ver side) harnes	(-) Ground			4
Disconnect door m Turn ignition switch Check voltage betw Door Connector D43 the inspection result YES >> GO TO 3. NO >> GO TO 2. CHECK DOOR MIR Turn ignition switch Disconnect automa	hirror (driver side) con h ON. ween door mirror (driv (+) r mirror (driver side) r mirror (driver side) Termina 23 normal? RROR (DRIVER SIDE h OFF. atic drive positioner co between automatic d	) SENSOR PO	(-) Ground WER SUPPL	Y CIRCUIT		
Disconnect door m Turn ignition switch Check voltage betw Door Connector D43 the inspection result YES >> GO TO 3. NO >> GO TO 2. CHECK DOOR MIR Turn ignition switch Disconnect automa Check continuity ( driver side) harne	hirror (driver side) con h ON. ween door mirror (driv (+) r mirror (driver side) r mirror (driver side) Termina 23 normal? RROR (DRIVER SIDE h OFF. atic drive positioner co between automatic d	ver side) harnes	(-) Ground WER SUPPL	Y CIRCUIT	4-6	
Disconnect door m Turn ignition switch Check voltage betw Door Connector D43 the inspection result YES >> GO TO 3. NO >> GO TO 2. CHECK DOOR MIR Turn ignition switch Disconnect automa Check continuity ( driver side) harne	hirror (driver side) con h ON. ween door mirror (driv (+) r mirror (driver side) Termina 23 normal? RROR (DRIVER SIDE h OFF. atic drive positioner co between automatic do	ver side) harnes	(-) Ground WER SUPPL ector. control unit	Y CIRCUIT	4-6	
Disconnect door m Turn ignition switch Check voltage betw Door Connector D43 the inspection result YES >> GO TO 3. NO >> GO TO 3. NO >> GO TO 2. CHECK DOOR MIR Turn ignition switch Disconnect automa Check continuity (driver side) harne Automatic drive per Connector M75	hirror (driver side) con h ON. ween door mirror (driv (+) r mirror (driver side) (+) r mirror (driver side) Termina 23 normal? RROR (DRIVER SIDE h OFF. atic drive positioner co between automatic d ss connector. ositioner control unit Terminal 21	ver side) harnes	(-) Ground WER SUPPL ector. control unit	Y CIRCUIT harness cor ide) Terminal 23	4-6 nector and door mirr Continuity Existed	
Disconnect door m Turn ignition switch Check voltage betw Door Connector D43 the inspection result YES >> GO TO 3. NO >> GO TO 3. NO >> GO TO 2. CHECK DOOR MIR Turn ignition switch Disconnect automa Check continuity (driver side) harne Automatic drive per Connector M75	hirror (driver side) con h ON. ween door mirror (driv (+) r mirror (driver side) Termina 23 normal? RROR (DRIVER SIDE h OFF. atic drive positioner co between automatic d ss connector.	ver side) harnes	(-) Ground WER SUPPL ector. control unit	Y CIRCUIT harness cor ide) Terminal 23	4-6 nector and door mirr Continuity Existed	
Disconnect door m Turn ignition switch Check voltage betw Door Connector D43 the inspection result YES >> GO TO 3. NO >> GO TO 2. CHECK DOOR MIR Turn ignition switch Disconnect automa Check continuity I (driver side) harne Automatic drive pa Connector M75 Check continuity b	hirror (driver side) con h ON. ween door mirror (driv (+) r mirror (driver side) (+) r mirror (driver side) Termina 23 normal? RROR (DRIVER SIDE h OFF. atic drive positioner co between automatic d ss connector. ositioner control unit Terminal 21	ver side) harnes	(-) Ground WER SUPPL ector. control unit	Y CIRCUIT harness cor ide) Terminal 23	4 – 6 Inector and door mirr Continuity Existed for and ground.	
<ul> <li>Disconnect door m Turn ignition switch</li> <li>Check voltage betw</li> <li>Check voltage betw</li> <li>Door</li> <li>Connector</li> <li>D43</li> <li>the inspection result</li> <li>YES &gt;&gt; GO TO 3.</li> <li>NO &gt;&gt; GO TO 2.</li> <li>CHECK DOOR MIR</li> <li>Turn ignition switch</li> <li>Disconnect automa</li> <li>Check continuity field</li> <li>(driver side) harne</li> <li>Automatic drive particular</li> <li>Check continuity b</li> </ul>	hirror (driver side) con h ON. ween door mirror (driv (+) r mirror (driver side) r mirror (driver side) Termina 23 normal? RROR (DRIVER SIDE h OFF. atic drive positioner co between automatic drivess connector. ositioner control unit Terminal 21 between automatic drives	ver side) harnes	(-) Ground WER SUPPL ector. control unit	Y CIRCUIT harness cor ide) Terminal 23	4-6 nector and door mirr Continuity Existed	

NO >> Repair or replace harness or connector.

#### < DTC/CIRCUIT DIAGNOSIS >

# $\overline{\mathbf{3}}$ . 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	Connector Terminal		Continuity	
M75	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	Automatic drive positioner control unit		Door mirror (driver side)	
Connector	Terminal	Connector	Terminal	Continuity
M75	6	D43	21	Existed
C / IVI	18	043	22	Existed

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
1017 5	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:000000012405607

#### **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	Door mirror (noocongor side)	Change between 3.4 [V] (close to peak) 0.6 [V] (close to valley)
MIR/SEN RH R-L	<ul> <li>Door mirror (passenger side)</li> </ul>	Change between 3.4 [V] (close to left edge) 0.6 [V] (close to right edge)

#### Is the indication normal?

YES >> INSPECTION END

#### **Revision: October 2015**

TC/CIRCUIT DIAG	)P-87. "PASSENGER	KSIDE : Diadnosis E	rocequie .	
	E : Diagnosis Pr	-		INFOID:00000001240560
	ROR SENSOR (PAS			
	-	SENGER SIDE) PO	WER SUPPLY	
Turn ignition switch	irror (passenger side)	) connector		
Turn ignition switch	ON.			
Check voltage betw	veen door mirror (pas	senger side) harnes	s connector and gro	ound.
	(+)			
Door mi	rror (passenger side)		(-)	Voltage (V)
Connector	Termina	lls		
D3	23		Ground	4 - 6
ne inspection result r	normal?			
ES >> GO TO 3.				
) >> GO TO 2.				
CHECK DOOR MIRE	ROR (PASSENGER S	SIDE) SENSOR PO	WER SUPPLY CIRC	CUIT
Turn ignition switch				
Disconnect automa	tic drive positioner co			
		e positioner control	unit harness connee	ctor and door mirror (pas-
senger side) harnes	ss connector.			
Automatic drive po	sitioner control unit	Door mirror (	passenger side)	
Automatic drive por			passenger side) Terminal	Continuity
Connector	Terminal	Connector	Terminal	
Connector M75	Terminal 21	Connector D3	Terminal 23	Existed
Connector M75	Terminal	Connector D3	Terminal 23	Existed
Connector M75 Check continuity be	Terminal 21	Connector D3 /e positioner control	Terminal 23	Existed ctor and ground.
Connector M75 Check continuity be	Terminal 21 etween automatic driv	Connector D3 /e positioner control	Terminal 23	Existed
Connector M75 Check continuity be Automatic dr	Terminal 21 etween automatic driv	Connector D3 /e positioner control	Terminal 23 unit harness connec	Existed ctor and ground.
Connector M75 Check continuity be Automatic dr Connector	Terminal 21 etween automatic driv rive positioner control unit Termina 21	Connector D3 /e positioner control	Terminal 23 unit harness connec	Existed Ctor and ground. Continuity
Connector M75 Check continuity be Automatic dr Connector M75 he inspection result r ES >> Replace au	Terminal 21 etween automatic driv rive positioner control unit Termina 21 normal?	Connector D3 /e positioner control	Terminal 23 unit harness connect Ground	Existed ctor and ground. Continuity
Connector M75 Check continuity be Automatic dr Connector M75 he inspection result r ES >> Replace au D >> Repair or re	Terminal 21 etween automatic driv rive positioner control unit Termina 21 normal? itomatic drive position eplace harness or cor	Connector D3 ve positioner control al ner control unit. Refe	Terminal       23       unit harness connect       Ground	Existed Ctor and ground. Continuity Not existed
Connector M75 Check continuity be Automatic dr Connector M75 he inspection result r ES >> Replace au D >> Repair or re	Terminal 21 etween automatic driv rive positioner control unit Termina 21 normal? itomatic drive position eplace harness or cor	Connector D3 ve positioner control al ner control unit. Refe	Terminal       23       unit harness connect       Ground	Existed Ctor and ground. Continuity Not existed
Connector M75 Check continuity be Automatic dr Connector M75 he inspection result r ES >> Replace au D >> Repair or re CHECK DOOR MIRE	Terminal 21 etween automatic driv rive positioner control unit Termina 21 normal? tomatic drive position eplace harness or cor ROR (PASSENGER \$	Connector D3 ve positioner control al ner control unit. Refe	Terminal       23       unit harness connect       Ground	Existed Ctor and ground. Continuity Not existed
Connector M75 Check continuity be Automatic dr Connector M75 ne inspection result r ES >> Replace au D >> Replace au D >> Replace m CHECK DOOR MIRF	Terminal 21 etween automatic driv rive positioner control unit Termina 21 normal? tomatic drive position eplace harness or cor ROR (PASSENGER \$	Connector D3 /e positioner control	Terminal       23       unit harness connect       Ground       er to ADP-114, "Rem       OUND CIRCUIT	Existed Ctor and ground. Continuity Not existed
Connector M75 Check continuity be Automatic dr Connector M75 ne inspection result r ES >> Replace au D >> Repair or re CHECK DOOR MIRF Turn ignition switch Disconnect automa Check continuity be	Terminal 21 etween automatic driv rive positioner control unit Termina 21 normal? tomatic drive position eplace harness or cor ROR (PASSENGER \$ OFF. tic drive positioner co	Connector D3 /e positioner control al ner control unit. Refe nnector. SIDE) SENSOR GR	Terminal 23 unit harness connec Ground er to ADP-114, "Rem OUND CIRCUIT	Existed Ctor and ground. Continuity Not existed
Connector M75 Check continuity be Automatic dr Connector M75 ne inspection result r ES >> Replace au D >> Replace au D >> Replar or re CHECK DOOR MIRF Turn ignition switch Disconnect automa	Terminal 21 etween automatic driv rive positioner control unit Termina 21 normal? tomatic drive position eplace harness or cor ROR (PASSENGER \$ OFF. tic drive positioner co	Connector D3 /e positioner control al ner control unit. Refe nnector. SIDE) SENSOR GR	Terminal 23 unit harness connec Ground er to ADP-114, "Rem OUND CIRCUIT	Existed Ctor and ground. Continuity Not existed Noval and Installation".
Connector M75 Check continuity be Automatic dr Connector M75 ne inspection result r ES >> Replace au D >> Repair or re CHECK DOOR MIRF Turn ignition switch Disconnect automa Check continuity be senger side) connect	Terminal 21 etween automatic driv rive positioner control unit Termina 21 normal? itomatic drive position eplace harness or cor ROR (PASSENGER S OFF. itic drive positioner co etween 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 connect         Ground         er to ADP-114. "Rem         OUND CIRCUIT         unit harness connect	Existed Ctor and ground. Continuity Not existed Not and Installation".
Connector M75 Check continuity be Automatic dr Connector M75 ne inspection result r ES >> Replace au D >> Repair or re CHECK DOOR MIRF Turn ignition switch Disconnect automa Check continuity be senger side) conner	Terminal 21 etween automatic driv rive positioner control unit Termina 21 normal? normal? normal? NOR (PASSENGER S OFF. tic drive positioner co etween automatic driv ctor.	Connector D3 /e positioner control al ner control unit. Refennector. SIDE) SENSOR GR pontrol unit connector. /e positioner control	Terminal         23         unit harness connect         Ground         er to ADP-114, "Rem         OUND CIRCUIT         unit harness connect         passenger side)	Existed Ctor and ground. Continuity Not existed Noval and Installation".
Connector M75 Check continuity be Automatic dr Connector M75 ne inspection result r ES >> Replace au D >> Repair or re CHECK DOOR MIRF Turn ignition switch Disconnect automa Check continuity be senger side) conner Automatic drive por Connector	Terminal 21 etween automatic driv rive positioner control unit Termina 21 normal? tomatic drive positioner eplace harness or cor ROR (PASSENGER S OFF. tic drive positioner co etween 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	Terminal         23         unit harness connect         Ground         er to ADP-114. "Rem         OUND CIRCUIT         unit harness connect         passenger side)         Terminal	Existed Ctor and ground. Continuity Not existed Not existed Not and Installation". Ctor and door mirror (pas- Continuity
Connector M75 Check continuity be Automatic dr Connector M75 ne inspection result r ES >> Replace au D >> Repair or re CHECK DOOR MIRE Turn ignition switch Disconnect automa Check continuity be senger side) conner Automatic drive por Connector M75	Terminal 21 21 21 21 21 21 21 21 21 21 21 21 21	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 connect         Ground         er to ADP-114, "Rem         OUND CIRCUIT         .         unit harness connect         passenger side)         Terminal         24	Existed Ctor and ground. Continuity Not existed Not existed Not and Installation". Ctor and door mirror (pas- Continuity Existed
Connector M75 Check continuity be Automatic dr Connector M75 ne inspection result r ES >> Replace au D >> Repair or re CHECK DOOR MIRE Turn ignition switch Disconnect automa Check continuity be senger side) conner Automatic drive por Connector M75	Terminal 21 etween automatic driv rive positioner control unit Termina 21 normal? tomatic drive positioner eplace harness or cor ROR (PASSENGER S OFF. tic drive positioner co etween 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 connect         Ground         er to ADP-114, "Rem         OUND CIRCUIT         .         unit harness connect         passenger side)         Terminal         24	Existed Ctor and ground. Continuity Not existed Not existed Not and Installation". Ctor and door mirror (pas- Continuity Existed
Connector M75 Check continuity be Automatic dr Connector M75 ne inspection result r ES >> Replace au D >> Repair or re CHECK DOOR MIRE Turn ignition switch Disconnect automa Check continuity be senger side) connect Automatic drive por Connector M75 Check continuity be	Terminal 21 21 21 21 21 21 21 21 21 21 21 21 21	Connector D3 /e positioner control al ner control unit. Refennector. SIDE) SENSOR GR ontrol unit connector. /e positioner control Door mirror ( Connector D3 /e positioner control	Terminal         23         unit harness connect         Ground         er to ADP-114, "Rem         OUND CIRCUIT         .         unit harness connect         passenger side)         Terminal         24	Existed Continuity Not existed Continuity Not existed Continuity Continuity Continuity Existed Continuity Existed Continuity
Connector M75 Check continuity be Automatic dr Connector M75 ne inspection result r ES >> Replace au D >> Repair or re CHECK DOOR MIRE Turn ignition switch Disconnect automa Check continuity be senger side) connect Automatic drive por Connector M75 Check continuity be	Terminal 21 21 21 21 21 21 21 21 21 21 21 21 21	Connector D3 /e positioner control al ner control unit. Refennector. SIDE) SENSOR GR ontrol unit connector. /e positioner control Door mirror ( Connector D3 /e positioner control	Terminal         23         unit harness connect         Ground         er to ADP-114, "Rem         OUND CIRCUIT         .         unit harness connect         passenger side)         Terminal         24	Existed Ctor and ground. Continuity Not existed Not existed Not and Installation". Ctor and door mirror (pas- Continuity Existed
Connector M75 Check continuity be Automatic dr Connector M75 ne inspection result r ES >> Replace au D >> Repair or re CHECK DOOR MIRE Turn ignition switch Disconnect automa Check continuity be senger side) conner Automatic drive por Connector M75 Check continuity be Automatic drive por	Terminal 21 21 21 21 21 21 21 21 21 21 21 21 21	Connector D3 /e positioner control al ner control unit. Refennector. SIDE) SENSOR GR ontrol unit connector. /e positioner control Door mirror ( Connector D3 /e positioner control	Terminal         23         unit harness connect         Ground         er to ADP-114, "Rem         OUND CIRCUIT         unit harness connect         passenger side)         Terminal         24         unit harness connect	Existed Continuity Not existed Continuity Not existed Continuity Continuity Continuity Existed Continuity Existed Continuity

**Revision: October 2015** 

#### < 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	Automatic drive positioner control unit		Door mirror (passenger side)			
Connector	Terminal	Connector	Terminal	Continuity		
M75	5	D3	21	Existed		
	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	Continuity
M75	5	Ground	Not existed
WI7 J	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**

< DTC/CIRCUIT DI SLIDING MOT		SIS >					
Component Fu	nction	Check					INFOID:000000012405609
1.CHECK FUNCTI	ON						
<ol> <li>Select "SEAT S</li> <li>Check the slidir</li> </ol>			ode with CO	ONSULT.			
	Tes	t item				Descriptior	<u></u> ו
		OFF				Stop	0
SEAT SLIDE		FR		Seat sliding	1	For	ward
		RR				Bac	kward
	CTION E		<u>ocedure"</u> .				
Diagnosis Proc	edure						INFOID:000000012405610
1.CHECK SLIDING	S МОТО	R INPUT SIGNA	۹L				
<ol> <li>Turn ignition sw</li> <li>Disconnect slidi</li> <li>Turn ignition sw</li> <li>Perform "Active</li> <li>Check voltage b</li> </ol>	ng moto itch ON. test" ("S	r connector.			ground.		
(	+)						
Sliding	g motor		(-)		Condition		Voltage (V)
Connector	Terr	ninals			1		
	:	34			OI		0 – 1
B561			Ground	SEAT SLID		ackward	9 – 16
	:	38				rward	0 – 1 9 – 16
Is the inspection res	ult norm	al?				nwaru	9 - 10
YES >> Replace NO >> GO TO 2.CHECK SLIDINC 1. Turn ignition sw 2. Disconnect driv	e sliding 2. 6 MOTO ritch OFF er seat c	motor (built in se R CIRCUIT  control unit conn	ector.			d sliding m	notor harness connector.
Driver	seat contro	ol unit		Sliding	g motor		
Connector		Terminal	Coni	nector	Ter	minal	- Continuity
B551		34	B	561	:	34	Existed
4. Check continuit	y betwee	38 en driver seat co				38 d ground.	
	-					-	
Connector		t control unit Termin	al	-			Continuity
B551		34	aı		Ground		Not existed
		38					

### **SLIDING MOTOR**

#### < DTC/CIRCUIT DIAGNOSIS >

- YES >> Replace driver seat control unit. Refer to <u>ADP-113</u>, "Removal and Installation".
- NO >> Repair or replace harness or connector.

### **RECLINING MOTOR**

	TC/CIRCUIT D		-								
	mponent Fu			k						INFOID:000000012405611	А
1.	CHECK FUNCT	ION									В
1. 2.	Select "SEAT R Check the recline				st" mode v	vith CONSI	JLT.				
-		Test	item					Desc	ription		С
_			OFF						Stop		
	SEAT RECLINING		FR			Seat reclini	ng		Forward		D
_			RR						Backwar	d	
Y N		CTION E D <u>ADP-91</u>	ND		ocedure".						E
Dia	agnosis Proc	eaure								INFOID:000000012405612	F
1.	CHECK RECLIN	IING MO	TOR IN	PUT SIG	SNAL						
1. 2. 3. 4. 5.	Turn ignition sw Disconnect rect Turn ignition sw Perform "Active Check voltage I	lining mo /itch ON. e test" ("S	tor coni EAT RE	ECLININ			nd gro	ound.			G
	(-	+)									1
	Reclinin	ig motor		(-)		Condition			Voltage (V)		
	Connector	Termi	nals					1			AC
		35	5					OFF		0 - 1	AL
	B554			Gro	und	SEAT RECLI	NING	Forward OFF		9 – 16	
		39	)					Backward		0 – 1 9 – 16	k
ls t	he inspection res	sult norm	al?					Dackwaru		3 - 10	
Y N	ES >> Replac O >> GO TO CHECK RECLIN Turn ignition sw Disconnect driv	e reclinin 2. IING MO vitch OFF ver seat c	g motor TOR CI	RCUIT	ector.		nnect	or and rec	lining mc	otor harness connec-	L N
-	Driver	seat contro	ol unit			Reclinir	na mot	or			
-	Connector		Termir	nal	Con	nector	3	Terminal		Continuity	C
-	B551		35 39		B	554		35 39		Existed	
4.	Check continuit	y betwee	en drive	r seat co	ntrol unit h	narness cor	nnect	or and gro	und.		F
_		Driver seat	control I	ınit							
-	Connecto			Termina	al	-				Continuity	
-	B551			35		-	Groun	d		Not existed	

39

- YES >> Replace driver seat control unit. Refer to <u>ADP-113, "Removal and Installation"</u>.
- NO >> Repair or replace harness or connector.

< DTC/CIRCUIT				TOR (FR	ON <sup>-</sup>	Г)		
LIFTING MC		-						
Component F								INFOID:000000012405613
1.CHECK FUNC								
		R" in "Active tes front) operation		ith CONSU	LT.			
	Tes	t item				Desc	ription	
		OFF					Stop	
SEAT LIFTER FR	1	UP		Seat lifting (	(front)		Upward	
		DWN					Downward	
NO >> Refer	ECTION E to <u>ADP-93</u>		rocedure".					
Diagnosis Pro	ocedure							INFOID:000000012405614
1. CHECK LIFTIN		R (FRONT) INF	UT SIGNA	L				
1.Turn ignition s2.Disconnect lif3.Turn ignition s4.Perform "Acti	switch OFF ting motor switch ON. ve test" ("S	: (front) connecto EAT LIFTER F	or. R") with CC	ONSULT.				
5. Check voltage	e between	lifting motor (fro	ont) harnes	s connecto	r and	ground.		
	(+)							
	otor (front)	(-	•)		Con	dition		Voltage (V)
Connector	Termin	als				055		
	36					OFF Downward		0 – 1 9 – 16
B555		Gro	und S	EAT LIFTER	FR	OFF		0 – 1
	40					Upward		9 – 16
Is the inspection r	esult norm	al?						
NO >> GOT 2.CHECK LIFTIN 1. Turn ignition s 2. Disconnect di	O 2. NG MOTOR switch OFF river seat c	- control unit conr	CUIT			or and liftir	ng motor (f	ront) harness con-
Driv	er seat contro	ol unit		Lifting mo	otor (fro	ont)		Continuity
Connector		Terminal	Con	nector		Terminal		Continuity
B551		36	- В	555		36 40		Existed
4. Check continu	uity betwee	en driver seat c	ontrol unit h	narness cor	nect	or and gro	und.	
	Driver sea	t control unit						
Connec		Termi	nal	1	•	a	C	Continuity
B551		36			Groun	d	N	ot existed
		40						

- YES >> Replace driver seat control unit. Refer to <u>ADP-113</u>, "Removal and Installation".
- NO >> Repair or replace harness or connector.

			LIFTI	NG MO	TOR (RI	EAR)			
<pre>&lt; DTC/CIRCI LIFTING  </pre>									
Componen		,							INFOID:000000012405615
<b>1.</b> снеск ғи			-						
		R RR" in "Ac	tive tes	t" mode w	ith CONSL	JLT.			
		tor (rear) ope							
		Test item					Desc	ription	
		OFF						Stop	
SEAT LIFTE	R RR	UP			Seat lifting	(rear)		Upward	
		DWN						Downwar	d
NO >> R	ISPECTIC efer to <u>AD</u>	N END P-95, "Diagn		ocedure".					
Diagnosis	Procedu	lre							INFOID:000000012405616
<b>1.</b> CHECK LI	FTING MC	TOR (REAR	) INPUT	Γ SIGNAL					
<ol> <li>Disconne</li> <li>Turn ignit</li> <li>Perform "</li> </ol>	ion switch Active test	otor (rear) co	TER RF	R") with CC		r and g	round.		
	(+)								
L	ifting motor (r	rear)		(-)		Con	dition		Voltage (V)
Connec	tor	Terminals							
		41					OFF		0 – 1
B556			G	Ground	SEAT LIFT	ER RR	Upward		9 – 16
		42					OFF		0-1
Is the inspect	on result n	ormal?					Downwar	a	9 – 16
YES >> R NO >> G <b>2.</b> CHECK LI 1. Turn ignit 2. Disconne	eplace lifti O TO 2. FTING MC ion switch ct driver se	ng motor (rea DTOR (REAR OFF. eat control ur	) CIRCI	JIT ector.			r and liftir	ng motor	(rear) harness con-
	Driver seat	control unit			Lifting m	otor (rea	r)		
Conne	ector	Termina	al	Coni	nector		Terminal		Continuity
B5	51	41 42		B	556		41 42		Existed
4. Check co	ntinuity be	tween driver	seat co	ntrol unit h	arness col	nnector		und.	
	Drive	r seat control ur	nit						
Co	nnector		Termina	al	4	Ground			Continuity
	B551		41		1	Ground			Not existed
			42						

- YES >> Replace driver seat control unit. Refer to <u>ADP-113</u>, "Removal and Installation".
- NO >> Repair or replace harness or connector.

< D	TC/CIRCU	IT DIAGNO	SIS >				
DC	Dor Mif	RROR M	OTOR				Δ
Со	mponent	Function	Check			INFOID:000000012405617	A
1.	СНЕСК DO	OR MIRRO	R MOTOR FI	UNCTION			В
		ration with "	MIRROR MC	DTOR RH" and "MIRROR MO	DTOR LH" in "ACTIVE	TEST" mode with	
	NSULT	2. "CONSU	LT Function"				С
		n result norr					
YE	-	SPECTION I					
N	0 >> Re	fer to <u>ADP-9</u>	97, "Diagnosi	s Procedure".			D
Dia	agnosis P	rocedure				INFOID:000000012405618	
1.	CHECK DO	OR MIRRO	R MOTOR IN	IPUT SIGNAL			E
1.		on switch OF					
2. 3.		t door mirror on switch ON					F
4.				harness connector and grou	nd.		
[Driv	er side]						G
_	(-	+)					G
_	Door	mirror	(-)	Conditio	n	Voltage (V)	
_	Connector	Terminals					Н
		10			DOWN / RIGHT	9 – 16	
		-			Other than the above	0 – 1	
	D43	11	Ground	Door mirror remote control switch	LEFT	9 – 16	I
	-				Other than the above	0 – 1	_

[Passenger side]

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

UP

Other than the above

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK DOOR MIRROR MOTOR CIRCUIT

12

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 harness connector.

9 – 16

0 – 1

ADP

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### DOOR MIRROR MOTOR

#### < DTC/CIRCUIT DIAGNOSIS >

Automatic drive pos	sitioner control unit	Door	mirror	Continuity
Connector	Terminal	Connector	Terminal	Continuity
	12		10	
M75	23	D43	12	Existed
	24		11	
ssenger side]				
Automatic drive pos	sitioner control unit	Door	mirror	Continuity
Connector	Terminal	Connector	Terminal	Continuity
	10		12	
M75	11	D3	11	Existed
		-	10	1

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

Automatic drive pos	sitioner control unit		Continuity
Connector	Terminal	-	Continuity
	12	Ground	
M75	23	-	Not existed
-	24	_	

[: 2000:190: 0:20]			
Automatic drive po	Automatic drive positioner control unit		Continuity
Connector	Terminal	Ground	Continuity
	10		
M75	11		Not existed
	22		

#### Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to <u>ADP-114</u>, "<u>Removal and Installation</u>".

NO >> Repair or replace harness or connector.

**3.**CHECK DOOR MIRROR MOTOR

Check door mirror motor.

Refer to ADP-98, "Component Inspection".

Is the inspection result normal?

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

NO >> Replace door mirror motor.

#### Component Inspection

INFOID:000000012405619

**1.**CHECK DOOR MIRROR MOTOR 1

Check that door mirror motor does not trap foreign objects and does not have any damage. Refer to <u>MIR-34, "Exploded View"</u>.

Is the inspection result normal?

#### YES >> GO TO 2.

NO >> Replace door mirror.

2. CHECK DOOR MIRROR MOTOR 2

1. Turn ignition switch OFF.

2. Disconnect door mirror connector.

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

### DOOR MIRROR MOTOR

#### < DTC/CIRCUIT DIAGNOSIS >

ŀ			Door mirror
	Operational direction	inal	Tern
-		(-)	(+)
— E	RIGHT	11	10
_	LEFT	10	11
	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.

Test item		Description	
	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-100, "Diagnosis Procedure"</u>.

#### Diagnosis Procedure

INFOID:000000012405621

INFOID:000000012405620

### 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.

### 3.CHECK SEAT MEMORY SWITCH INDICATOR POWER SUPPLY

Check voltage between seat memory switch harness connector and ground.

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

#### Is the inspection result normal?

YES >> Replace seat memory switch. Refer to <u>ADP-115, "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 >

< SYMPTOM DIAGNOSIS >

### SYMPTOM DIAGNOSIS

### MANUAL FUNCTION DOES NOT OPERATE

#### ALL COMPONENT

ALL COMPONENT : Diagnosis Procedure

INFOID:000000012405622

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

Check driver seat control unit power supply and ground circuit. Refer to ADP-60, "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-60, "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-41, "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-76, "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-41, "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:000000012405623

< SYMPTOM DIAGNOSIS >	
Check sliding switch. Refer to ADP-62, "Component Function Check".	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-89, "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
<u>Is the result normal?</u> YES >> Check intermittent incident. Refer to <u>GI-41, "Intermittent Incident"</u> . NO >> GO TO 1.	F
SEAT RECLINING	
SEAT RECLINING : Diagnosis Procedure	G
1.CHECK RECLINING MECHANISM	
Check for the following.  • Mechanism deformation or pinched foreign materials.  • Interference with other parts because of poor installation.	Н
Is the inspection result normal?	1
YES >> GO TO 2. NO >> Repair or replace the malfunction parts.	I
2. CHECK RECLINING SWITCH	ADP
Check reclining switch. Refer to ADP-64, "Component Function Check".	
Is the inspection result normal?	K
YES >> GO TO 3. NO >> Repair or replace the malfunction parts.	I
3. CHECK RECLINING MOTOR	
Check reclining motor. Refer to <u>ADP-91, "Component Function Check"</u> .	M
<u>Is the inspection result normal?</u> YES >> GO TO 4.	
NO >> Repair or replace the malfunction parts.	Ν
4.CONFIRM THE OPERATION	
Check the operation again.	0
Is the result normal?	0
YES >> Check intermittent incident. Refer to <u>GI-41, "Intermittent Incident"</u> . NO >> GO TO 1.	
SEAT LIFTING (FRONT)	Ρ
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-66, "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-93, "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 GI-41, "Intermittent Incident".

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-68. "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-95, "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-41, "Intermittent Incident"</u>.

NO >> GO TO 1. DOOR MIRROR

Revision: October 2015

< SYMF	PTOM DIAGNOSIS >		
DOOF	R MIRROR : Diagnosis Procedure	INFOID:000000012405628	
<b>1.</b> сне	CK DOOR MIRROR MECHANISM		А
<ul><li>Mecha</li><li>Interfe</li></ul>	for the following. anism deformation or pinched foreign materials. erence with other parts because of poor installation.		В
YES NO	nspection result normal? >> GO TO 2. >> Repair or replace the malfunction parts.		С
	CK DOOR MIRROR REMOTE CONTROL SWITCH		D
• Mirror	door mirror remote control switch. Refer to following. r switch : Refer to <u>ADP-72, "MIRROR SWITCH : Component Function Check"</u> . geover switch : Refer to <u>ADP-74, "CHANGEOVER SWITCH : Component Function C</u>	heck".	Е
	nspection result normal?		
YES NO	>> GO TO 3. >> Repair or replace the malfunction parts.		F
3.сне	CK DOOR MIRROR MOTOR		F
	door mirror motor. ADP-97, "Component Function Check".		G
	nspection result normal?		
YES NO	>> GO TO 4. >> Repair or replace the malfunction parts.		Н
	IFIRM THE OPERATION		
Check t	the operation again.		1
Is the re	esult normal?		
YES NO	>> Check intermittent incident. Refer to <u>GI-41, "Intermittent Incident"</u> . >> GO TO 1.		ADF
			Κ
			I

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### MEMORY FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

MEMORY FUNCTION DOES NOT OPERATE	
ALL COMPONENT	
ALL COMPONENT : Diagnosis Procedure	NFOID:000000012405629
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	
<ol> <li>Perform initialization procedure. Refer to <u>ADP-50</u>, "<u>Description</u>".</li> </ol>	
2. Perform memory storing procedure.	
Refer to <u>ADP-51, "Description"</u> .	
<ol> <li>Check memory function. Refer to <u>ADP-16, "MEMORY FUNCTION : System Description"</u>.</li> </ol>	
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-70, "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-41, "Intermittent Incident"</u> .	
NO >> GO TO 1.	
SEAT SLIDING	
SEAT SLIDING : Diagnosis Procedure	NFOID:0000000012405630
1. CHECK MANUAL OPERATION	
Check manual operation.	
Is the inspection result normal?	
YES >> GO TO 2.	
NO >> Refer to <u>ADP-102, "SEAT SLIDING : Diagnosis Procedure"</u> 2.CHECK SLIDING SENSOR	
Check sliding sensor. Refer to <u>ADP-77</u> , "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.	
<u>Is the result normal?</u>	

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

### MEMORY FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >	
NO >> GO TO 1. SEAT RECLINING	А
SEAT RECLINING : Diagnosis Procedure	_
1. CHECK MANUAL OPERATION	В
Check manual operation.	
Is the inspection result normal?	С
YES >> GO TO 2. NO >> Refer to <u>ADP-103, "SEAT RECLINING : Diagnosis Procedure"</u>	D
2.CHECK RECLINING SENSOR	D
Check reclining sensor. Refer to <u>ADP-79, "Component Function Check"</u> . <u>Is the inspection result normal?</u>	Е
YES >> GO TO 3. NO >> Repair or replace the malfunction parts. <b>3.</b> CONFIRM THE OPERATION	F
Check the operation again. <u>Is the result normal?</u> YES >> Check intermittent incident. Refer to <u>GI-41, "Intermittent Incident"</u> .	G
NO >> GO TO 1. SEAT LIFTING (FRONT)	Н
SEAT LIFTING (FRONT) : Diagnosis Procedure	I
Check manual operation.	ADF
<u>Is the inspection result normal?</u> YES >> GO TO 2.	
NO >> Refer to <u>ADP-103. "SEAT LIFTING (FRONT) : Diagnosis Procedure"</u>	K
2.CHECK LIFTING SENSOR (FRONT)	N
Check lifting sensor (front). Refer to <u>ADP-81, "Component Function Check"</u> .	L
<u>Is the inspection result normal?</u> YES >> GO TO 3.	
YES >> GO TO 3. NO >> Repair or replace the malfunction parts. <b>3.</b> CONFIRM THE OPERATION	M
Check the operation again.	
Is the result normal?	Ν
YES >> Check intermittent incident. Refer to <u>GI-41, "Intermittent Incident"</u> . NO >> GO TO 1. SEAT LIFTING (REAR)	0
SEAT LIFTING (REAR) : Diagnosis Procedure	Р
1.CHECK MANUAL OPERATION	Ľ
Check manual operation.	
<u>Is the inspection result normal?</u> YES >> GO TO 2.	
NO >> Refer to <u>ADP-104, "SEAT LIFTING (REAR) : Diagnosis Procedure"</u>	

### MEMORY FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

2. CHECK LIFTING SENSOR (REAR)

Check lifting sensor (rear).

Refer to ADP-83, "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 <u>GI-41, "Intermittent Incident"</u>.

NO >> GO TO 1.

DOOR MIRROR

#### **DOOR MIRROR : Diagnosis Procedure**

INFOID:000000012405634

**1.**CHECK MANUAL OPERATION

Check manual operation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to <u>ADP-105</u>, "DOOR MIRROR : Diagnosis Procedure"

2.CHECK MIRROR SENSOR

Check mirror sensor. Refer to following.

- Driver side : <u>ADP-85, "DRIVER SIDE : Component Function Check"</u>.
- Passenger side : <u>ADP-86, "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-41, "Intermittent Incident"</u>.
- NO >> GO TO 1.

### ENTRY/EXIT ASSIST FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

### ENTRY/EXIT ASSIST FUNCTION DOES NOT OPERATE

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Diagnosis Procedure	INFOID:000000012405635	A
1.CHECK SYSTEM SETTING		В
<ol> <li>Check system setting. Refer to <u>ADP-53, "Description"</u>.</li> <li>Check the operation.</li> </ol>		С
Is the inspection result normal? YES >> INSPECTION END NO >> GO TO 2. 2.PERFORM SYSTEM INITIALIZATION		D
<ol> <li>Perform system initialization. Refer to <u>ADP-50. "Description"</u>.</li> <li>Check the operation.</li> </ol>		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 <u>DLK-247</u> , " <u>Component Function Check</u> ". <u>Is the inspection result normal?</u> YES >> GO TO 4. NO >> Repair or replace the malfunction parts.		Н
4.CONFIRM THE OPERATION		I
Confirm the operation again. <u>Is the result normal?</u> YES >> Check intermittent incident. Refer to <u>GI-41. "Intermittent Incident"</u> . NO >> GO TO 1.		AD

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## INTELLIGENT KEY INTERLOCK FUNCTION DOES NOT OPERATE

#### < SYMPTOM DIAGNOSIS >

### INTELLIGENT KEY INTERLOCK FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000012405636

1.PERFORM INTELLIGENT KEY INTERLOCK STORING PROCEDURE

1. Perform Intelligent Key interlock storing procedure. Refer to ADP-52, "Description".

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-171, "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 <u>GI-41, "Intermittent Incident"</u>.

NO >> GO TO 1.

### MEMORY INDICATE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >	
MEMORY INDICATE DOES NOT OPERATE	А
Diagnosis Procedure	DID:000000012405637
1. CHECK SEAT MEMORY SWITCH INDICATOR	В
Check seat memory switch indicator. Refer to <u>ADP-100, "Component Function Check"</u> . <u>Is the inspection result normal?</u> YES >> GO TO 2.	С
NO >> 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-41, "Intermittent Incident"</u> .	E
NO >> GO TO 1.	F
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< SYMPTOM DIAGNOSIS >

# NORMAL OPERATING CONDITION

### Description

INFOID:000000012405638

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-50, "Description"
Entry/exit assist function do not operate.	Entry/exit assist function is disabled. <b>NOTE:</b> Entry/exit assist function is set to ON be- fore delivery (initial setting).	Change the settings.	ADP-53, "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-19, "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-14, "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-16, "MEMORY FUNCTION : System Description"
			Entry assist function : ADP-19, "ENTRY AS- SIST FUNCTION : Sys- tem Description"
			Exit assist function : ADP-18. "EXIT ASSIST FUNCTION : System Description"
			Intelligent Key interlock function : <u>ADP-20, "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-105, "Removal and Installation".
- 2. Remove screws (A), and then remove driver seat control unit (2) from seat cushion frame (1).

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#### INSTALLATION

Install in the reverse order of removal. NOTE:

After installing the driver seat, perform additional service when replacing control unit. Refer to ADP-49, "Description".

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### **AUTOMATIC DRIVE POSITIONER CONTROL UNIT**

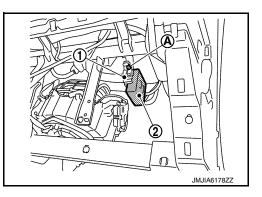
#### < REMOVAL AND INSTALLATION >

### AUTOMATIC DRIVE POSITIONER CONTROL UNIT

#### Removal and Installation

#### REMOVAL

- 1. Remove instrument lower panel RH. Refer to <u>IP-14, "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-49</u>. "<u>Description</u>".

### < REMOVAL AND INSTALLATION >

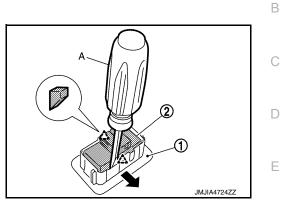
### SEAT MEMORY SWITCH

### Removal and Installation

### REMOVAL

- 1. Remove front door finisher. Refer to <u>INT-14</u>, "Removal and <u>Installation"</u>.
- 2. Press pawls and remove seat memory switch (2) from switch finisher (1) using remover tool (A).

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INSTALLATION Install in the reverse order of removal.



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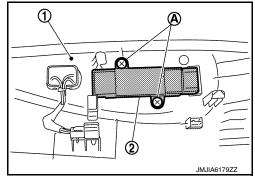
### < REMOVAL AND INSTALLATION >

### POWER SEAT SWITCH

Removal and Installation

#### REMOVAL

- 1. Remove seat cushion outer finisher. Refer to <u>SE-111, "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.