

# SECTION **ADP**

## AUTOMATIC DRIVE POSITIONER

A  
B  
C  
D  
E  
F  
G  
H  
I  
ADP  
K  
L  
M  
N  
O  
P

### CONTENTS

<b>PRECAUTION</b> .....	5	<b>ECU DIAGNOSIS INFORMATION</b> .....	22
<b>PRECAUTIONS</b> .....	5	<b>BCM (BODY CONTROL MODULE)</b> .....	22
Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER" .....	5	List of ECU Reference .....	22
Service Procedure Precautions for Models with a Pop-up Roll Bar .....	5	<b>DRIVER SEAT CONTROL UNIT</b> .....	23
Precaution for Battery Service .....	5	Reference Value .....	23
<b>SYSTEM DESCRIPTION</b> .....	6	Fail-safe .....	28
<b>COMPONENT PARTS</b> .....	6	DTC Index .....	29
Component Parts Location .....	6	<b>AUTOMATIC DRIVE POSITIONER CONTROL UNIT</b> .....	30
Component Description .....	7	Reference Value .....	30
<b>SYSTEM</b> .....	11	<b>WIRING DIAGRAM</b> .....	33
<b>AUTOMATIC DRIVE POSITIONER SYSTEM</b> .....	11	<b>AUTOMATIC DRIVE POSITIONER SYSTEM</b> ...	33
AUTOMATIC DRIVE POSITIONER SYSTEM : System Diagram .....	11	Wiring Diagram .....	33
AUTOMATIC DRIVE POSITIONER SYSTEM : System Description .....	11	<b>BASIC INSPECTION</b> .....	36
<b>MANUAL FUNCTION</b> .....	12	<b>DIAGNOSIS AND REPAIR WORK FLOW</b> .....	36
MANUAL FUNCTION : System Diagram .....	13	Work Flow .....	36
MANUAL FUNCTION : System Description .....	13	<b>ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL</b> .....	39
<b>MEMORY FUNCTION</b> .....	14	Description .....	39
MEMORY FUNCTION : System Diagram .....	15	Work Procedure .....	39
MEMORY FUNCTION : System Description .....	15	<b>ADDITIONAL SERVICE WHEN REMOVING DRIVER SEAT CONTROL UNIT</b> .....	40
<b>INTELLIGENT KEY INTERLOCK FUNCTION</b> .....	16	Description .....	40
INTELLIGENT KEY INTERLOCK FUNCTION : System Diagram .....	17	Work Procedure .....	40
INTELLIGENT KEY INTERLOCK FUNCTION : System Description .....	17	<b>MEMORY STORING</b> .....	41
Fail-safe .....	18	Description .....	41
<b>DIAGNOSIS SYSTEM (DRIVER SEAT CONTROL UNIT)</b> .....	19	Work Procedure .....	41
Diagnosis Description .....	19	<b>INTELLIGENT KEY INTERLOCK STORING</b> ...	42
CONSULT Function .....	19	Description .....	42
		Work Procedure .....	42
		<b>DTC/CIRCUIT DIAGNOSIS</b> .....	43

<b>U1000 CAN COMM CIRCUIT</b> .....	<b>43</b>	Component Inspection .....	61
Description .....	43	<b>TILT SWITCH</b> .....	<b>62</b>
DTC Logic .....	43	Component Function Check .....	62
Diagnosis Procedure .....	43	Diagnosis Procedure .....	62
Special Repair Requirement .....	43	Component Inspection .....	63
<b>U1010 CONTROL UNIT (CAN)</b> .....	<b>44</b>	<b>TELESCOPIC SWITCH</b> .....	<b>64</b>
DTC Logic .....	44	Component Function Check .....	64
Diagnosis Procedure .....	44	Diagnosis Procedure .....	64
<b>B2112 SLIDING MOTOR</b> .....	<b>45</b>	Component Inspection .....	65
DTC Logic .....	45	<b>SEAT MEMORY SWITCH</b> .....	<b>66</b>
Diagnosis Procedure .....	45	Component Function Check .....	66
<b>B2113 RECLINING MOTOR</b> .....	<b>46</b>	Diagnosis Procedure .....	66
DTC Logic .....	46	Component Inspection .....	67
Diagnosis Procedure .....	46	<b>DOOR MIRROR REMOTE CONTROL</b>	
<b>B2116 TILT MOTOR</b> .....	<b>47</b>	<b>SWITCH</b> .....	<b>68</b>
DTC Logic .....	47	<b>MIRROR SWITCH</b> .....	<b>68</b>
Diagnosis Procedure .....	47	MIRROR SWITCH : Component Function Check... 68	
<b>B2128 UART COMMUNICATION LINE</b> .....	<b>48</b>	MIRROR SWITCH : Diagnosis Procedure .....	68
Description .....	48	MIRROR SWITCH : Component Inspection .....	69
DTC Logic .....	48	<b>CHANGEOVER SWITCH</b> .....	<b>69</b>
Diagnosis Procedure .....	48	CHANGEOVER SWITCH : Component Function	
<b>B2130 EEPROM</b> .....	<b>49</b>	Check .....	69
DTC Logic .....	49	CHANGEOVER SWITCH : Diagnosis Procedure... 70	
Diagnosis Procedure .....	49	CHANGEOVER SWITCH : Component Inspec-	
<b>POWER SUPPLY AND GROUND CIRCUIT</b> ....	<b>50</b>	tion .....	71
<b>DRIVER SEAT CONTROL UNIT</b> .....	<b>50</b>	<b>POWER SEAT SWITCH GROUND CIRCUIT</b> ...	<b>72</b>
DRIVER SEAT CONTROL UNIT :		Diagnosis Procedure .....	72
Diagnosis Procedure .....	50	<b>TILT &amp; TELESCOPIC SWITCH GROUND CIR-</b>	
<b>AUTOMATIC DRIVE POSITIONER CONTROL</b>		<b>CUIT</b> .....	<b>73</b>
<b>UNIT</b> .....	<b>50</b>	Diagnosis Procedure .....	73
AUTOMATIC DRIVE POSITIONER CONTROL		<b>SLIDING SENSOR</b> .....	<b>74</b>
UNIT : Diagnosis Procedure .....	50	Component Function Check .....	74
<b>SLIDING SWITCH</b> .....	<b>52</b>	Diagnosis Procedure .....	74
Component Function Check .....	52	<b>RECLINING SENSOR</b> .....	<b>76</b>
Diagnosis Procedure .....	52	Component Function Check .....	76
Component Inspection (Power Seat Switch) .....	54	Diagnosis Procedure .....	76
Component Inspection (Power Walk-in Switch) .....	54	<b>LIFTING SENSOR (FRONT)</b> .....	<b>78</b>
<b>RECLINING SWITCH</b> .....	<b>55</b>	Component Function Check .....	78
Component Function Check .....	55	Diagnosis Procedure .....	78
Diagnosis Procedure .....	55	<b>LIFTING SENSOR (REAR)</b> .....	<b>80</b>
Component Inspection (Power Seat Switch) .....	57	Component Function Check .....	80
Component Inspection (Power Walk-in Switch) .....	57	Diagnosis Procedure .....	80
<b>LIFTING SWITCH (FRONT)</b> .....	<b>58</b>	<b>TILT SENSOR</b> .....	<b>82</b>
Component Function Check .....	58	Component Function Check .....	82
Diagnosis Procedure .....	58	Diagnosis Procedure .....	82
Component Inspection .....	59	<b>TELESCOPIC SENSOR</b> .....	<b>84</b>
<b>LIFTING SWITCH (REAR)</b> .....	<b>60</b>	Component Function Check .....	84
Component Function Check .....	60	Diagnosis Procedure .....	84
Diagnosis Procedure .....	60		

<b>MIRROR SENSOR</b> .....	87	<b>SEAT LIFTING (FRONT)</b> .....	111	
		SEAT LIFTING (FRONT) : Diagnosis Procedure ..	111	A
<b>DRIVER SIDE</b> .....	87	<b>SEAT LIFTING (REAR)</b> .....	111	
DRIVER SIDE : Component Function Check .....	87	SEAT LIFTING (REAR) : Diagnosis Procedure ....	111	B
DRIVER SIDE : Diagnosis Procedure .....	87	<b>STEERING TILT</b> .....	112	
<b>PASSENGER SIDE</b> .....	88	STEERING TILT : Diagnosis Procedure .....	112	C
PASSENGER SIDE :		<b>STEERING TELESCOPIC</b> .....	112	
Component Function Check .....	88	STEERING TELESCOPIC : Diagnosis Procedure.	112	D
PASSENGER SIDE : Diagnosis Procedure .....	89	<b>DOOR MIRROR</b> .....	113	
<b>SLIDING MOTOR</b> .....	91	DOOR MIRROR : Diagnosis Procedure .....	113	E
Component Function Check .....	91	<b>MEMORY FUNCTION DOES NOT OPERATE.</b>	114	
Diagnosis Procedure .....	91	<b>ALL COMPONENT</b> .....	114	
<b>RECLINING MOTOR</b> .....	93	ALL COMPONENT : Diagnosis Procedure .....	114	F
Component Function Check .....	93	<b>SEAT SLIDING</b> .....	114	
Diagnosis Procedure .....	93	SEAT SLIDING : Diagnosis Procedure .....	114	G
Component Inspection .....	95	<b>SEAT RECLINING</b> .....	114	
<b>LIFTING MOTOR (FRONT)</b> .....	96	SEAT RECLINING : Diagnosis Procedure .....	115	H
Component Function Check .....	96	<b>SEAT LIFTING (FRONT)</b> .....	115	
Diagnosis Procedure .....	96	SEAT LIFTING (FRONT) : Diagnosis Procedure ..	115	I
<b>LIFTING MOTOR (REAR)</b> .....	98	<b>SEAT LIFTING (REAR)</b> .....	115	
Component Function Check .....	98	SEAT LIFTING (REAR) : Diagnosis Procedure ....	115	J
Diagnosis Procedure .....	98	<b>STEERING TILT</b> .....	116	
<b>TILT MOTOR</b> .....	100	STEERING TILT : Diagnosis Procedure .....	116	K
Component Function Check .....	100	<b>STEERING TELESCOPIC</b> .....	116	
Diagnosis Procedure .....	100	STEERING TELESCOPIC : Diagnosis Procedure.	116	ADP
<b>TELESCOPIC MOTOR</b> .....	102	<b>DOOR MIRROR</b> .....	116	
Component Function Check .....	102	DOOR MIRROR : Diagnosis Procedure .....	117	L
Diagnosis Procedure .....	102	<b>MEMORY INDICATE DOES NOT OPERATE .</b>	118	
<b>DOOR MIRROR MOTOR</b> .....	104	Diagnosis Procedure .....	118	M
Component Function Check .....	104	<b>INTELLIGENT KEY INTERLOCK FUNCTION</b>		
Diagnosis Procedure .....	104	<b>DOES NOT OPERATE</b> .....	119	
Component Inspection .....	105	Diagnosis Procedure .....	119	N
<b>SEAT MEMORY INDICATOR</b> .....	107	<b>NORMAL OPERATING CONDITION</b> .....	120	
Component Function Check .....	107	Description .....	120	O
Diagnosis Procedure .....	107	<b>REMOVAL AND INSTALLATION</b> .....	121	
<b>SYMPTOM DIAGNOSIS</b> .....	109	<b>DRIVER SEAT CONTROL UNIT</b> .....	121	
<b>MANUAL FUNCTION DOES NOT OPERATE.</b>	109	Removal and Installation .....	121	P
<b>ALL COMPONENT</b> .....	109	<b>AUTOMATIC DRIVE POSITIONER CON-</b>		
ALL COMPONENT : Diagnosis Procedure .....	109	<b>TROL UNIT</b> .....	122	
<b>POWER SEAT</b> .....	109	Removal and Installation .....	122	
POWER SEAT : Diagnosis Procedure .....	109	<b>SEAT MEMORY SWITCH</b> .....	123	
<b>TILT &amp; TELESCOPIC</b> .....	109	Removal and Installation .....	123	
TILT & TELESCOPIC : Diagnosis Procedure .....	109	<b>POWER SEAT SWITCH</b> .....	124	
<b>SEAT SLIDING</b> .....	110	Removal and Installation .....	124	
SEAT SLIDING : Diagnosis Procedure .....	110			
<b>SEAT RECLINING</b> .....	110			
SEAT RECLINING : Diagnosis Procedure .....	110			

---

<b>POWER WALK-IN SWITCH</b> .....	125	<b>TILT&amp;TELESCOPIC SWITCH</b> .....	126
Removal and Installation .....	125	Removal and Installation .....	126

# PRECAUTIONS

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## PRECAUTION

### PRECAUTIONS

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

INFOID:000000007566007

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.

#### Service Procedure Precautions for Models with a Pop-up Roll Bar

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#### **WARNING:**

Always observe the following items for preventing accidental activation.

- Risk of passenger injury or death may increase if the pop-up roll bar does not deploy during a roll over collision. In order to reduce the chance of an incident where the pop-up roll bar is inoperative, all maintenance must be performed by a NISSAN or INFINITI dealer.
- Before removing and installing the pop-up roll bar component parts and harness, always turn the ignition switch OFF, disconnect the battery negative terminal, and wait for 3 minutes or more. (The purpose of this operation is to discharge electricity that is accumulated in the auxiliary power supply circuit in the air bag diagnosis sensor unit.)
- When repairing, removing, and installing a pop-up roll bar, always refer to SRS AIR BAG and SRS AIR BAG CONTROL warnings in the Service Manual.

#### Precaution for Battery Service

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Before disconnecting the battery, lower both the driver and passenger windows. This will prevent any interference between the window edge and the vehicle when the door is opened/closed. During normal operation, the window slightly raises and lowers automatically to prevent any window to vehicle interference. The automatic window function will not work with the battery disconnected.

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# COMPONENT PARTS

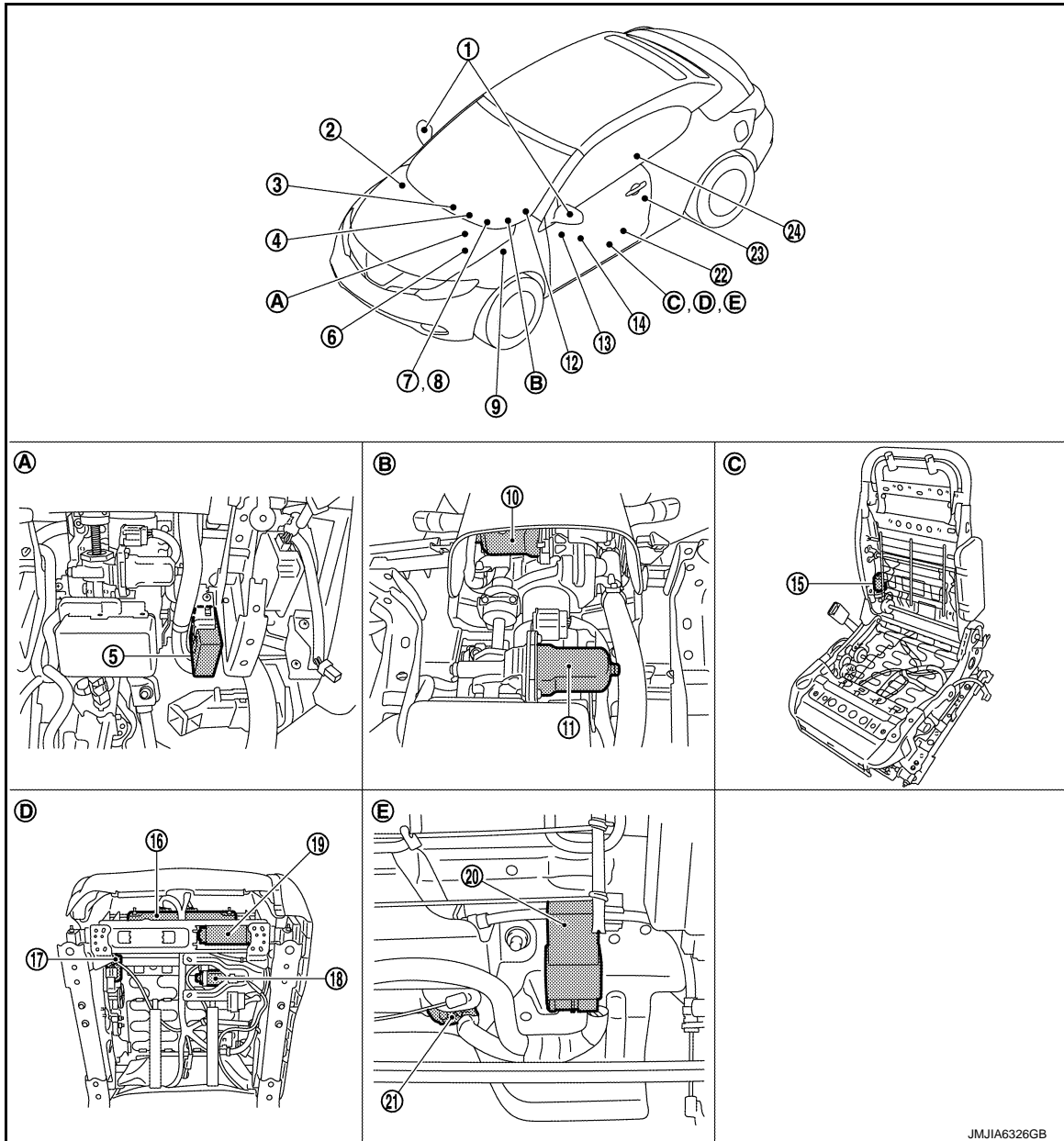
< SYSTEM DESCRIPTION >

## SYSTEM DESCRIPTION

### COMPONENT PARTS

#### Component Parts Location

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- |   |   |  |
|---|---|--|
| <p>1. Door mirror (driver side/passenger side)</p> <p>4. Key slot</p> <p>7. Combination meter</p> | <p>2. ABS actuator and electric unit (control unit)<br/>Refer to <a href="#">TM-10, "CVT CONTROL SYSTEM : Component Parts Location"</a></p> <p>5. Automatic drive control unit</p> <p>8. BCM<br/>Refer to <a href="#">BCS-4, "BODY CONTROL SYSTEM : Component Parts Location"</a></p> | <p>3. CVT shift selector<br/>Refer to <a href="#">TM-10, "CVT CONTROL SYSTEM : Component Parts Location"</a></p> <p>6. TCM<br/>Refer to <a href="#">TM-10, "CVT CONTROL SYSTEM : Component Parts Location"</a></p> <p>9. IPDM E/R<br/>Refer to <a href="#">PCS-4, "Component Parts Location"</a></p> |
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# COMPONENT PARTS

## < SYSTEM DESCRIPTION >

- |  |   |   |   |
|--|---|---|---|
| 10. Tilt motor                                 | 11. Telescopic motor                                    | 12. Tilt & telescopic switch                            |   |
| 13. Door mirror remote control switch          | 14. Seat memory switch                                  | 15. Reclining motor                                     | A |
| 16. Driver seat control unit                   | 17. Lifting motor (rear)                                | 18. Lifting motor (front)                               | B |
| 19. Sliding motor                              | 20. Reclining motor relay                               | 21. Reclining motor limit switch                        |   |
| 22. Power seat switch                          | 23. Front door switch (driver side)                     | 24. Power walk-in switch                                | B |
| A. View with instrument lower panel LH removed | B. View with steering column lower cover removed        | C. View with seat cushion pad and seat-back pad removed | C |
| D. Back side of seat cushion                   | E. View with seat cushion pad and seat-back pad removed |   | C |

## Component Description

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Component parts	Description
Driver seat control unit	<ul style="list-style-type: none"> <li>Main units of automatic drive positioner system.</li> <li>It is connected to the CAN.</li> <li>It communicates with automatic drive positioner control unit via UART communication.</li> <li>It perform memory function after receiving the door unlock signal from BCM.</li> <li>The address of each part is recorded.</li> <li>Operates each motor of seat to the registered position.</li> <li>Requests the operation of steering column and door mirror to automatic drive positioner control unit</li> <li>Operates the specific seat motor with the signal from power seat switch.</li> <li>Transmits the ignition switch signal (ACC/ON) via UART communication to automatic driver positioner control unit.</li> </ul>
Automatic drive positioner control unit	<ul style="list-style-type: none"> <li>It communicates with driver seat control unit via UART communication.</li> <li>Perform various controls with the instructions of driver seat control unit.</li> <li>Perform the controls of tilt &amp; telescopic, door mirror and seat memory switch.</li> <li>Operates steering column and door mirror with the signal from the driver seat control</li> </ul>
BCM	<p>Recognizes the following status and transmits it to driver seat control unit via CAN communication.</p> <ul style="list-style-type: none"> <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> </ul>
IPDM E/R	ON/OFF signal of CVT shift selector (detention switch) is transmitted to driver seat control unit via CAN communication.
TCM	<p>The following signals are transmitted to driver seat control unit via CAN communication.</p> <ul style="list-style-type: none"> <li>Shift position signal (P range)</li> <li>Identification of transmission: CVT</li> </ul>
Combination meter	Transmit the vehicle speed signal to driver seat control unit via CAN communication.
ABS actuator and electric unit (control unit)	Transmit the vehicle speed signal to driver seat control unit via CAN communication.
CVT shift selector (detention switch)	<ul style="list-style-type: none"> <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 position if continuity does not exist in this circuit.</li> </ul>

# COMPONENT PARTS

## < SYSTEM DESCRIPTION >

Component parts	Description
Key slot	The key switch is installed to detect the key inserted/removed status.
Front door switch (driver side)	Detects door open/close condition and transmits to BCM.
Door mirror remote control switch	Mirror switch <ul style="list-style-type: none"> <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> </ul>
	Changeover switch <ul style="list-style-type: none"> <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> </ul>
Tilt & telescopic switch	Tilt switch <ul style="list-style-type: none"> <li>• Tilt switch is equipped to steering column.</li> <li>• The operation signal is input to automatic drive positioner control unit when tilt switch is operated.</li> </ul>
	Telescopic switch <ul style="list-style-type: none"> <li>• Telescopic switch is equipped to steering column.</li> <li>• The operation signal is input to automatic drive positioner control unit when telescopic switch is operated.</li> </ul>
Seat memory switch	Set switch <p>It is used for registration and setting change of driving position and Intelligent Key interlock function.</p>
	Seat memory switch <ul style="list-style-type: none"> <li>• The maximum 2 driving positions can be registered by memory switch 1 to 2.</li> <li>• Driving position is set to the registered driving position when memory switch is pressed while operation conditions are satisfied.</li> </ul>
	Seat memory indicator <p>Memory indicator indicates the status of auto driving position system by turning ON or blinking.</p>
Power seat switch	Sliding switch <ul style="list-style-type: none"> <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> </ul>
	Reclining switch <ul style="list-style-type: none"> <li>• Reclining 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 reclining switch is operated.</li> </ul>
	Lifting switch (front) <ul style="list-style-type: none"> <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> </ul>
	Lifting switch (rear) <ul style="list-style-type: none"> <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> </ul>
Power walk-in switch	Sliding switch <ul style="list-style-type: none"> <li>• Sliding switch is equipped to power walk-in switch on seatback.</li> <li>• The operation signal is input to driver seat control unit when sliding switch is operated.</li> </ul>
	Reclining switch <ul style="list-style-type: none"> <li>• Reclining switch is equipped to power walk-in switch on seatback.</li> <li>• The operation signal is input to driver seat control unit when reclining switch is operated.</li> </ul>
Reclining motor limit switch	Turns ON when seat strap is pulled. Supplies power supply to reclining motor relay.
Reclining motor relay	Operates when power supply is supplied from reclining motor limit switch. Connects/disconnects reclining motor circuit.



# COMPONENT PARTS

## < SYSTEM DESCRIPTION >

Component parts		Description
Door mirror (driver side/ passenger side)	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.
	Mirror sensor	<ul style="list-style-type: none"> <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 position according to the change of the voltage of 2 sensor input terminals.</li> </ul>
Tilt motor	Tilt motor	<ul style="list-style-type: none"> <li>• Tilt motor is installed to steering column assembly.</li> <li>• Tilt motor is activated with automatic drive positioner control unit.</li> <li>• Steering column is tilted upward/downward by changing the rotation direction of tilt motor.</li> </ul>
	Tilt sensor	<ul style="list-style-type: none"> <li>• Tilt sensor is integrated in tilt motor.</li> <li>• The resistance of tilt sensor is changed according to the up/down position of steering column.</li> <li>• The terminal voltage of automatic drive positioner control unit will be changed according to a change of tilt sensor resistance.</li> <li>• Automatic drive positioner control unit calculates the tilt position from the voltage.</li> </ul>
Telescopic motor	Telescopic motor	<ul style="list-style-type: none"> <li>• Telescopic motor is installed to steering column assembly.</li> <li>• Telescopic motor is activated with automatic drive positioner control unit.</li> <li>• Compresses steering column by changing the rotation direction of telescopic motor.</li> </ul>
	Telescopic sensor	<ul style="list-style-type: none"> <li>• Telescopic sensor is integrated in telescopic motor.</li> <li>• The resistance of telescopic sensor is changed according to the forward/backward position of steering column.</li> <li>• The terminal voltage of automatic drive positioner control unit will be changed according to a change of telescopic sensor resistance.</li> <li>• Automatic drive positioner control unit calculates the telescopic position from the voltage.</li> </ul>
Sliding motor	Sliding motor	<ul style="list-style-type: none"> <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 forward/ rearward by changing the rotation direction of sliding motor.</li> </ul>
	Sliding sensor	<ul style="list-style-type: none"> <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> </ul>
Reclining motor	Reclining motor	<ul style="list-style-type: none"> <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 forward/rearward by changing the rotation direction of reclining motor.</li> </ul>
	Reclining sensor	<ul style="list-style-type: none"> <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> </ul>
Lifting motor (front)	Lifting motor (front)	<ul style="list-style-type: none"> <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> </ul>
	Lifting sensor (front)	<ul style="list-style-type: none"> <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> </ul>

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## COMPONENT PARTS

### < SYSTEM DESCRIPTION >

Component parts		Description
Lifting motor (rear)	Lifting motor (rear)	<ul style="list-style-type: none"><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></ul>
	Lifting sensor (rear)	<ul style="list-style-type: none"><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></ul>

# SYSTEM

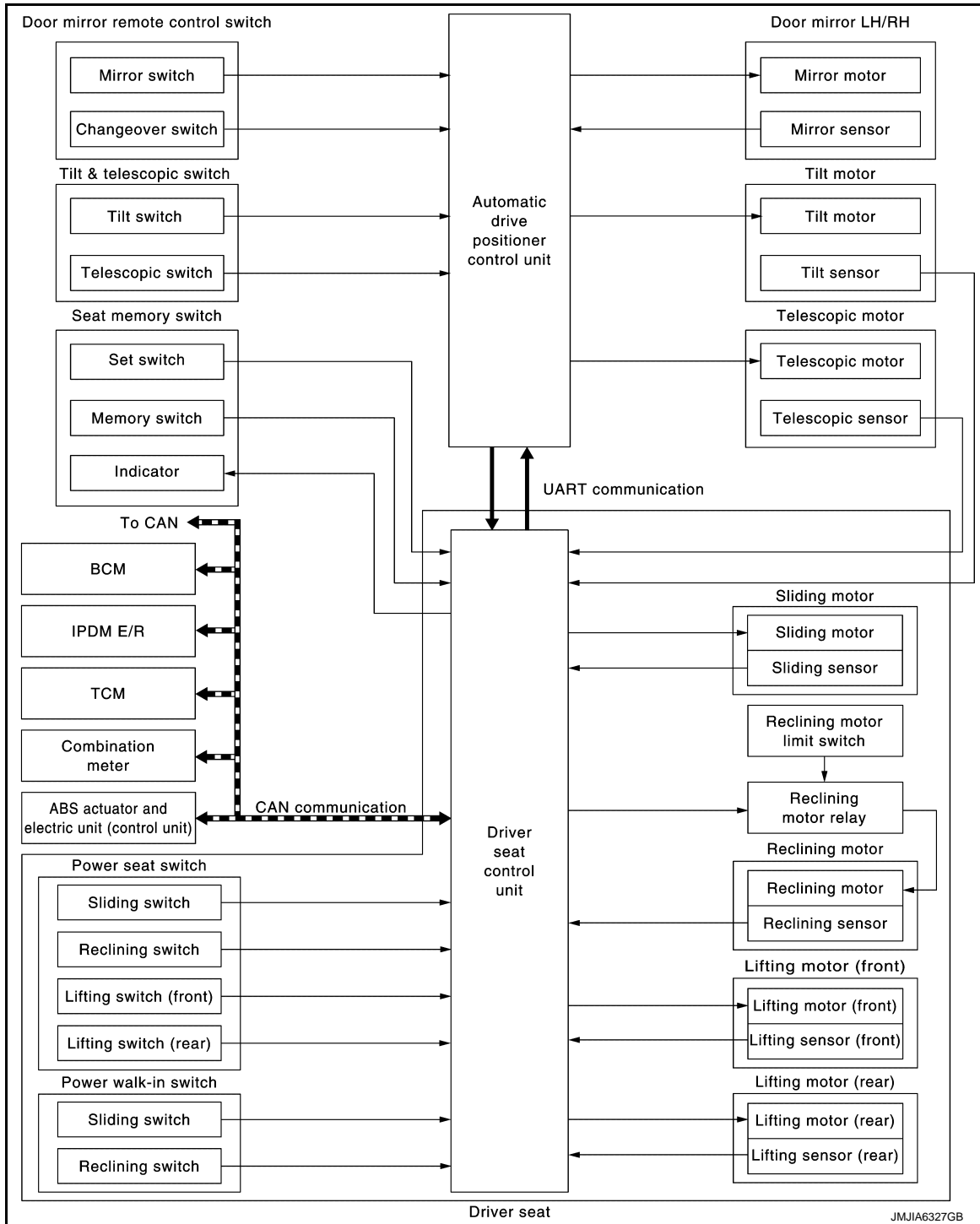
< SYSTEM DESCRIPTION >

## SYSTEM

### AUTOMATIC DRIVE POSITIONER SYSTEM

#### AUTOMATIC DRIVE POSITIONER SYSTEM : System Diagram

INFOID:000000007566012



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#### AUTOMATIC DRIVE POSITIONER SYSTEM : System Description

INFOID:000000007566013

The system automatically moves the driver seat, steering column, 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.

# SYSTEM

## < SYSTEM DESCRIPTION >

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Function	Description
Manual function	The driving position (seat, steering column and door mirror position) can be adjusted by using the power seat switch, tilt & telescopic switch or door mirror remote control switch.
Memory function	The seat, steering column and door mirror move to the stored driving position by pressing seat memory switch (1 or 2).
Intelligent Key interlock function	Perform memory operation by Intelligent Key unlock operation or driver side door request switch unlock operation.

### SLEEP CONTROL

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

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

- Ignition switch is OFF.
- All devices of automatic drive positioner 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)
- Tilt & telescopic switch

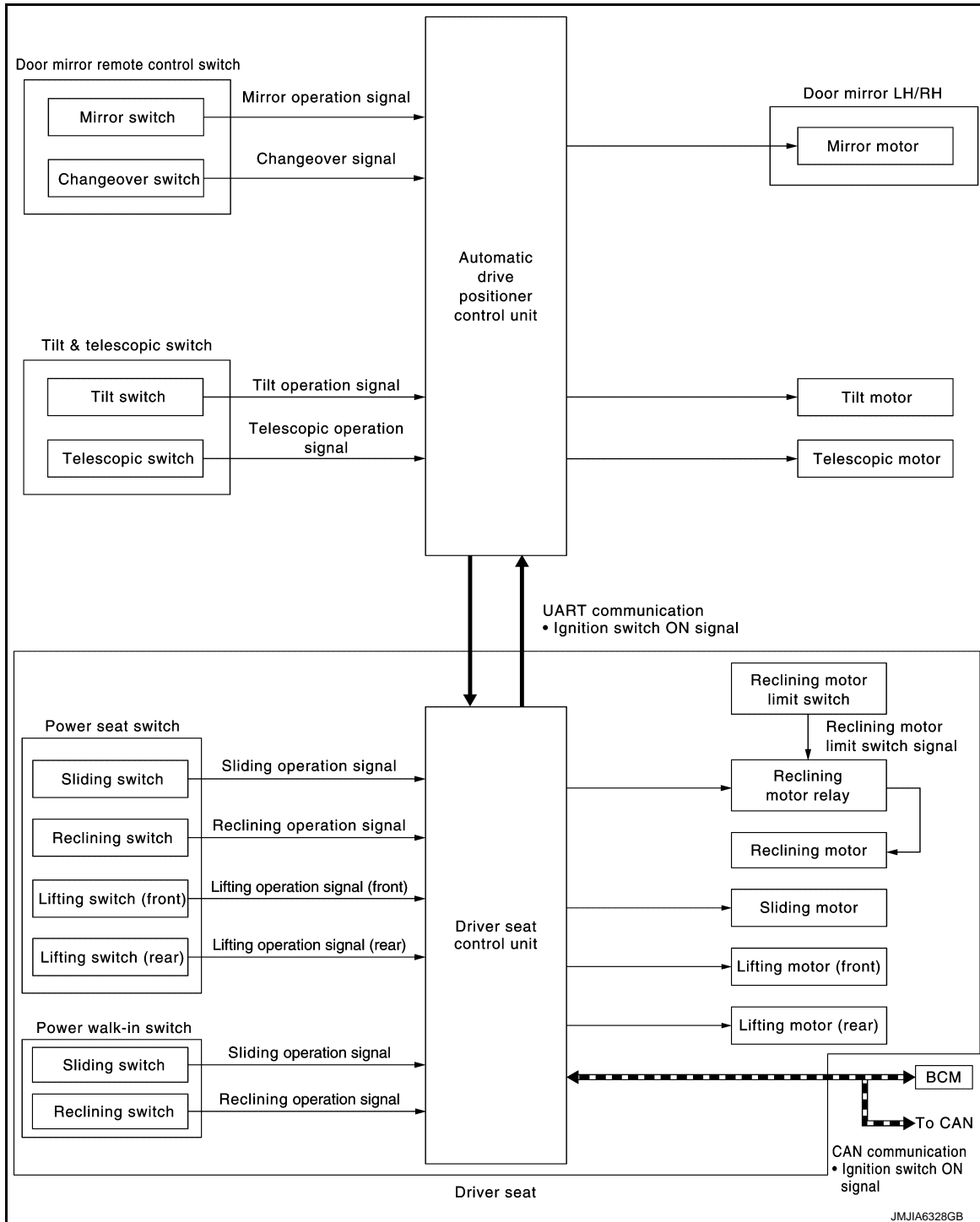
### MANUAL FUNCTION

# SYSTEM

< SYSTEM DESCRIPTION >

## MANUAL FUNCTION : System Diagram

INFOID:000000007566014



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## MANUAL FUNCTION : System Description

INFOID:000000007566015

- The driving position (seat, steering column, and door mirror position) can be adjusted manually with power seat switch, tilt & telescopic switch, and door mirror remote control switch.
- The power seat and steering column 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 tilt & telescopic switch is operated, operation signal is transmitted to automatic drive control unit. Each motor is operated according to operation signal.

# SYSTEM

## < SYSTEM DESCRIPTION >

---

- 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.

### EMERGENCY ESCAPE FUNCTION

Driver seat has emergency escape function. Seat strap for emergency escape is installed on the rear side of seatback of driver seat. Seatback can be operated manually when seat strap is pulled.

#### Operation Description

- When seat strap is pulled, reclining motor and gear are disengaged, and then reclining motor limit switch turns ON.
- When power seat switch (reclining switch) or power walk-in switch (reclining switch) is operated while seatback is folded by manual operation, power supply is supplied from reclining motor limit switch to reclining motor relay. Reclining motor circuit is disconnected and operation of reclining motor is inhibited.

#### **CAUTION:**

- **Never operate emergency function except in emergency, or otherwise, parts may be damaged.**
- **Never operate emergency function while driver seat is occupied, or otherwise, injury may be caused.**

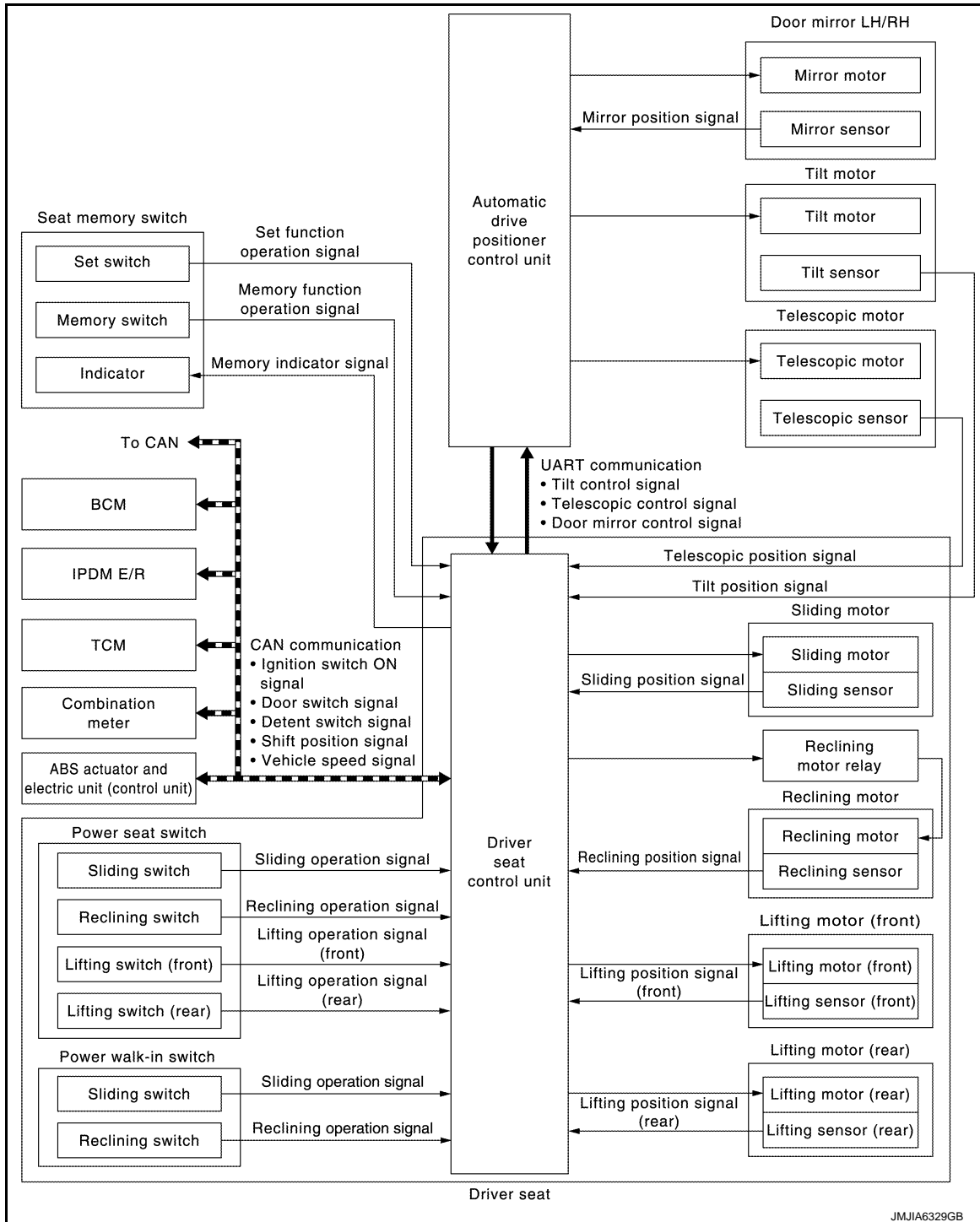
### MEMORY FUNCTION

# SYSTEM

< SYSTEM DESCRIPTION >

## MEMORY FUNCTION : System Diagram

INFOID:000000007566016



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## MEMORY FUNCTION : System Description

INFOID:000000007566017

- The driver seat control unit can store the optimum driving positions (seat, steering column, and door mirror position) for 2 people. If the driver seat position is changed, one-touch (pressing desired memory switch) operation allows changing to the other driving position.
- When seat memory switch (1 and 2) are operated, operation signal is transmitted to driver seat control unit.
- When driver seat control unit detects that seat 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 tilt & telescopic motor and mirror motor to automatic drive positioner control unit via UART communication.

# SYSTEM

## < SYSTEM DESCRIPTION >

- Automatic drive positioner control unit operates tilt & telescopic motor, detects the steering column position according to signal transmitted from tilt & telescopic sensor, and transmits the detected steering column position to driver seat control unit.
- 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 and automatic drive positioner control unit stops the operation of each motor when each part reaches the memorized positions.
- Driver seat control unit turns memory indicator lamp OFF that is blinking while each motor operates.

### NOTE:

Further information for the memory storage procedure. Refer to [ADP-41, "Work Procedure"](#).

## OPERATION CONDITION

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

Item	Request status
Ignition position	ON*
Switch inputs <ul style="list-style-type: none"><li>• Power seat switch</li><li>• Door mirror remote control switch</li><li>• Tilt &amp; telescopic 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 operating the driver door even if the ignition switch position is in OFF position.
- Satisfy all of the following items. The timer function is not performed if these items are not satisfied.

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

## INTELLIGENT KEY INTERLOCK FUNCTION

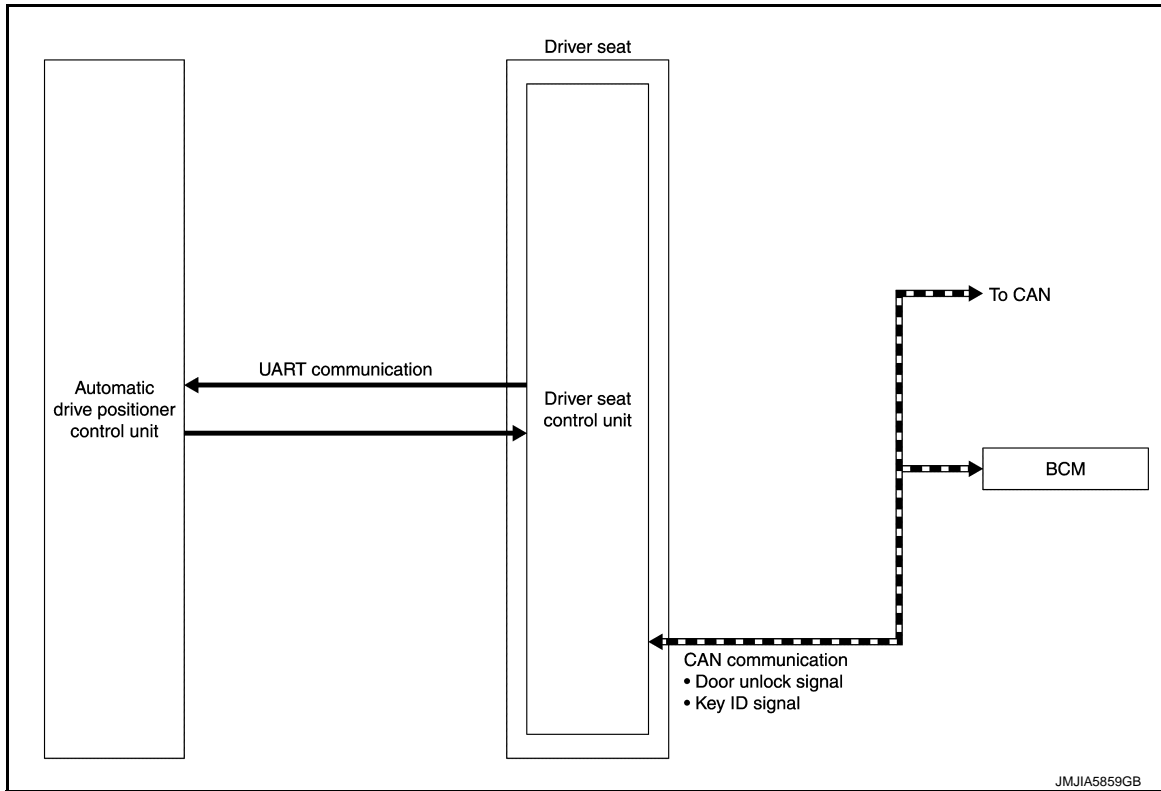


# SYSTEM

< SYSTEM DESCRIPTION >

## INTELLIGENT KEY INTERLOCK FUNCTION : System Diagram

INFOID:000000007566018



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## INTELLIGENT KEY INTERLOCK FUNCTION : System Description

INFOID:000000007566019

- By associating Intelligent Key and automatic drive positioner system, the unlock operation of Intelligent Key or driver side door request switch performs memory 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.
- When ignition switch is OFF, and door unlock operation is performed using Intelligent Key or driver side door request switch, driver seat automatically adjusts to a driving 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-42. "Description"](#).

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### OPERATION CONDITION

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

Item	Request status
Ignition position	OFF
Intelligent key interlock function	Registered
Switch inputs <ul style="list-style-type: none"> <li>• Power seat switch</li> <li>• Tilt &amp; telescopic 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

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# SYSTEM

## < SYSTEM DESCRIPTION >

### Fail-safe

INFOID:000000007566020

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

Operating in fail-safe mode	Malfunction Item	Related DTC	Diagnosis
Only manual functions operate normally.	CAN communication	U1000	<a href="#">ADP-43</a>
	CONTROL UNIT (CAN)	U1010	<a href="#">ADP-44</a>
	EEPROM	B2130	<a href="#">ADP-49</a>
Only manual functions, except door mirror, operate normally.	UART communication	B2128	<a href="#">ADP-48</a>
Only manual functions, except seat sliding, operate normally.	Seat sliding output	B2112	<a href="#">ADP-45</a>
Only manual functions, except seat reclining, operate normally.	Seat reclining output	B2113	<a href="#">ADP-46</a>
Only manual functions, except steering tilt, operate normally.	Steering column tilt output	B2116	<a href="#">ADP-47</a>

# DIAGNOSIS SYSTEM (DRIVER SEAT CONTROL UNIT)

< SYSTEM DESCRIPTION >

## DIAGNOSIS SYSTEM (DRIVER SEAT CONTROL UNIT)

### Diagnosis Description

INFOID:000000007566021

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

### DIAGNOSTIC MODE

Diagnostic mode [AUTO DRIVE POS.]	Description
Ecu Identification	Displays part numbers of driver seat control unit parts.
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	Drive each output device.

### CONSULT Function

INFOID:000000007566022

### SELF-DIAGNOSIS RESULTS

Refer to [ADP-29, "DTC Index"](#).

### DATA MONITOR

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

# DIAGNOSIS SYSTEM (DRIVER SEAT CONTROL UNIT)

## < SYSTEM DESCRIPTION >

Monitor Item	Unit	Main Signals	Selection From Menu	Contents
MIR CHNG SW-L	"ON/OFF"	×	×	ON/OFF status judged from the door mirror remote control switch (switching to left) signal.
TILT SW-UP	"ON/OFF"	×	×	ON/OFF status judged from the tilt switch (up) signal.
TILT SW-DOWN	"ON/OFF"	×	×	ON/OFF status judged from the tilt switch (down) signal.
TELESCO SW-FR	"ON/OFF"	×	×	ON/OFF status judged from the telescoping switch (forward) signal.
TELESCO SW-RR	"ON/OFF"	×	×	ON/OFF status judged from the telescoping switch (backward) signal.
DETENT SW	"ON/OFF"	×	×	The CVT shift selector position "OFF (P position) / ON (other than P position)" judged from the detention switch signal.
STARTER SW	"ON/OFF"	×	×	Ignition key switch ON (START, ON) /OFF (ACC, OFF) status judged from the ignition switch signal.
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.
TILT PULSE	—	—	×	Value (32768) when battery connections are standard. If it moves DOWN, the value increases. If it moves UP, the value decreases.
TELESCO PULSE	—	—	×	Value (32768) when battery connections are standard. If it moves backward, the value increases. If it moves forward, the value decreases.
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 door switch (front driver side) signal.
DOOR SW-FR	"ON/OFF"	×	×	ON/OFF status judged from the door switch (front passenger 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.

# DIAGNOSIS SYSTEM (DRIVER SEAT CONTROL UNIT)

## < SYSTEM DESCRIPTION >

Monitor Item	Unit	Main Signals	Selection From Menu	Contents
KYLS DR UNLK	"ON/OFF"	×	×	ON/OFF status judged from the driver side door unlock actuator 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.
STEERING STATUS	<b>NOTE:</b> This item is displayed, but cannot be monitored			

## ACTIVE TEST

### CAUTION:

When driving vehicle, do not perform active test.

Test item	Description
SEAT SLIDE	Activates/deactivates the sliding motor.
SEAT RECLINING	Activates/deactivates the reclining motor.
SEAT LIFTER FR	Activates/deactivates the lifting motor (front).
SEAT LIFTER RR	Activates/deactivates the lifting motor (rear).
TILT MOTOR	Activates/deactivates the tilt motor.
TELESCO MOTOR	Activates/deactivates the telescopic motor.
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.

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# BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

## ECU DIAGNOSIS INFORMATION

### BCM (BODY CONTROL MODULE)

#### List of ECU Reference

INFOID:000000007566023

ECU	Reference
BCM	<a href="#">BCS-31, "Reference Value"</a>
	<a href="#">BCS-53, "Fail-safe"</a>
	<a href="#">BCS-53, "DTC Inspection Priority Chart"</a>
	<a href="#">BCS-54, "DTC Index"</a>

# DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

## DRIVER SEAT CONTROL UNIT

Reference Value

INFOID:000000007566024

VALUES ON THE DIAGNOSIS TOOL

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

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# DRIVER SEAT CONTROL UNIT

## < ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition		Value/Status
TELESCO SW-FR	Telescopic switch	Forward	ON
		Other than above	OFF
TELESCO SW-RR	Telescopic switch	Backward	ON
		Other than above	OFF
DETENT SW	CVT shift selector	P position	OFF
		Other than above	ON
STARTER SW	Ignition position	Cranking	ON
		Other than above	OFF
SLIDE PULSE	Seat sliding	Forward	The numeral value decreases *
		Backward	The numeral value increases*
		Other than above	No change to numeral value*
RECLN PULSE	Seat reclining	Forward	The numeral value decreases*
		Backward	The numeral value increases *
		Other than above	No change to numeral value *
LIFT FR PULSE	Seat lifter (front)	Up	The numeral value decreases *
		Down	The numeral value increases *
		Other than above	No change to numeral value *
LIFT RR PULSE	Seat lifter (rear)	Up	The numeral value decreases *
		Down	The numeral value increases *
		Other than above	No change to numeral value *
MIR/SEN RH U-D	Door mirror (passenger side)		Change between 3.4 (close to peak) 0.6 (close to valley)
MIR/SEN RH R-L	Door mirror (passenger side)		Change between 3.4 (close to left edge) 0.6 (close to right edge)
MIR/SEN LH U-D	Door mirror (driver side)		Change between 3.4 (close to peak) 0.6 (close to valley)
MIR/SEN LH R-L	Door mirror (driver side)		Change between 0.6 (close to left edge) 3.4 (close to right edge)
TILT PULSE	Tilt position	Upward	The numeral value decreases *
		Downward	The numeral value increases *
		Other than above	No change to numeral value *
TELESCO PULSE	Telescopic position	Forward	The numeral value decreases *
		Backward	The numeral value increases *
		Other than above	No change to numeral value *
STEERING STATUS	<b>NOTE:</b> This item is displayed, but cannot be monitored		
VEHICLE SPEED	The condition of vehicle speed is displayed		km/h
P RANG SW CAN	CVT shift selector	P position	ON
		Other than above	OFF
R RANGE (CAN)	CVT shift selector	R position	ON
		Other than above	OFF
DOOR SW-FL	Driver door	Open	ON
		Close	OFF



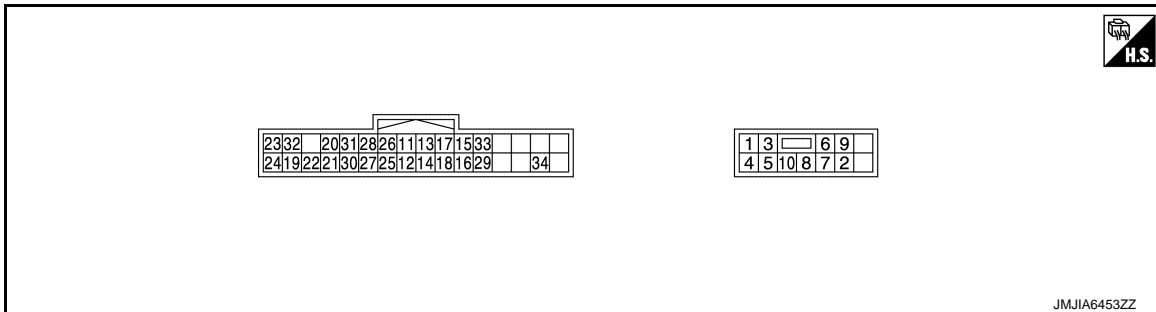
# DRIVER SEAT CONTROL UNIT

## < ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition		Value/Status
DOOR SW-FR	Passenger door	Open	ON
		Close	OFF
IGN ON SW	Ignition switch	ON position	ON
		Other than above	OFF
ACC ON SW	Ignition switch	ACC or ON position	ON
		Other than above	OFF
KEY ON SW	Intelligent Key	Inserted is key slot	ON
		Inserted is not key slot	OFF
KEYLESS ID	UNLOCK button of Intelligent Key is pressed		1,2,3,4or5
KYL5 DR UNLK	Intelligent Key or driver side door request switch	ON	ON
		OFF	OFF
VHCL SPEED (ABS)	Can signal from ABS	Received	ON
		Not received	OFF
HANDLE	The BCM for handle position is displayed		LHD
			RHD
TRANSMISSION	Transmission type is displayed		AT or CVT
			MT

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

## TERMINAL LAYOUT



## PHYSICAL VALUES

Terminal No. (wire color)		Description		Condition	Voltage (V) (Approx)	
+	-	Signal name	Input/ Output			
1 (R)	Ground	Battery power supply	Input	—	Battery voltage	
2 (B)	Ground	Ground	—	—	0	
3 (G)	Ground	Sliding motor backward output signal	Output	Seat sliding	Operate (backward)	12
					Other than the above	0
4 (G/R)	Ground	Sliding motor forward output signal	Output	Seat sliding	Operate (forward)	12
					Other than the above	0

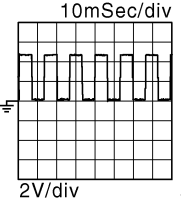
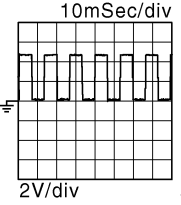
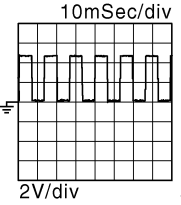
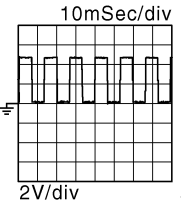
## DRIVER SEAT CONTROL UNIT

### < ECU DIAGNOSIS INFORMATION >

Terminal No. (wire color)		Description		Condition	Voltage (V) (Approx)	
+	-	Signal name	Input/ Output			
5 (V)	Ground	Reclining motor backward output signal	Output	Seat reclining	Operate (backward)	12
					Other than the above	0
6 (R/L)	Ground	Reclining motor forward output signal	Output	Seat reclining	Operate (forward)	12
					Other than the above	0
7 (L)	Ground	Lifting motor (rear) down output signal	Output	Seat lifting (rear)	Operate (down)	12
					Other than the above	0
8 (L/W)	Ground	Lifting motor (rear) up out- put signal	Output	Seat lifting (rear)	Operate (up)	12
					Other than the above	0
9 (L/R)	Ground	Lifting motor (front) down output signal	Output	Seat lifting (front)	Operate (down)	12
					Other than the above	0
10 (L/B)	Ground	Lifting motor (front) up out- put signal	Output	Seat lifting (front)	Operate (up)	12
					Other than the above	0
11 (G/B)	Ground	Sliding switch backward signal	Input	Sliding switch	Operate (backward)	0
					Other than the above	12
12 (G/W)	Ground	Sliding switch forward sig- nal	Input	Sliding switch	Operate (forward)	0
					Other than the above	12
13 (R/G)	Ground	Reclining switch backward signal	Input	Reclining switch	Operate (backward)	0
					Other than the above	12
14 (R/W)	Ground	Reclining switch forward signal	Input	Reclining switch	Operate (forward)	0
					Other than the above	12
15 (Y/B)	Ground	Lifting switch (rear) down signal	Input	Lifting switch (rear)	Operate (down)	0
					Other than the above	12
16 (Y/R)	Ground	Lifting switch (rear) up sig- nal	Input	Seat lifting switch (rear)	Operate (up)	0
					Other than the above	12

# DRIVER SEAT CONTROL UNIT

## < ECU DIAGNOSIS INFORMATION >

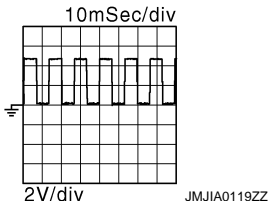
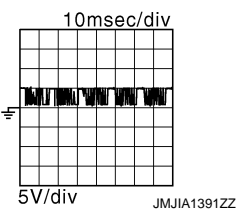
Terminal No. (wire color)		Description		Condition		Voltage (V) (Approx)
+	-	Signal name	Input/ Output			
17 (LG/B)	Ground	Lifting switch (front) down signal	Input	Lifting switch (front)	Operate (down)	0
					Other than the above	12
18 (LG/R)	Ground	Lifting switch (front) up signal	Input	Seat lifting switch (front)	Operate (up)	0
					Other than the above	12
19 (G/Y)	Ground	Sliding sensor signal	Input	Seat sliding	Operate	
					Other than the above	0 or 5
20 (R/Y)	Ground	Reclining sensor signal	Input	Seat reclining	Operate	
					Other than the above	0 or 5
21 (L/Y)	Ground	Lifting sensor (rear) signal	Input	Seat lifting (rear)	Operate	
					Other than the above	0 or 5
22 (BR/Y)	Ground	Lifting sensor (front) signal	Input	Seat lifting (front)	Operate	
					Other than the above	0 or 5
23 (P)	—	CAN-H	—	—	—	—
24 (P/L)	—	CAN-L	—	—	—	—

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ADP

# DRIVER SEAT CONTROL UNIT

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (wire color)		Description		Condition		Voltage (V) (Approx)
+	-	Signal name	Input/ Output			
25 (G/O)	Ground	Memory indicator 1 signal	Output	Memory indicator 1	Illuminate	1
					Other than above	12
26 (L/O)	Ground	Memory indicator 2 signal	Output	Memory indicator 2	Illuminate	1
					Other than above	12
27 (V)	Ground	Memory switch 1 signal	Input	Memory switch 1	Press	0
					Other than above	5
28 (V/W)	Ground	Memory switch 2 signal	Input	Memory switch 2	Press	0
					Other than above	5
29 (L)	Ground	Set switch signal	Input	Set switch	Press	0
					Other than above	5
30 (BR)	Ground	Tilt sensor signal	Input	Tilt	Operate	
					Other than above	0 or 5
31 (BR/W)	Ground	Telescopic sensor signal	Input	Telescopic	Operate	
					Other than above	0 or 5
32 (W/L)	Ground	UART communication (TX/RX)	Input	Ignition switch ON		
33 (W)	Ground	Sensor power supply	Output	—	12	
34 (B/Y)	Ground	Ground	—	—	0	

## Fail-safe

INFOID:000000007566025

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

Operating in fail-safe mode	Malfunction Item	Related DTC	Diagnosis
Only manual functions operate normally.	CAN communication	U1000	<a href="#">ADP-43</a>
	CONTROL UNIT (CAN)	U1010	<a href="#">ADP-44</a>
	EEPROM	B2130	<a href="#">ADP-49</a>
Only manual functions, except door mirror, operate normally.	UART communication	B2128	<a href="#">ADP-48</a>
Only manual functions, except seat sliding, operate normally.	Seat sliding output	B2112	<a href="#">ADP-45</a>
Only manual functions, except seat reclining, operate normally.	Seat reclining output	B2113	<a href="#">ADP-46</a>
Only manual functions, except steering tilt, operate normally.	Steering column tilt output	B2116	<a href="#">ADP-47</a>

# DRIVER SEAT CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

## DTC Index

INFOID:000000007566026

CONSULT display	Timing*		Item	Reference page
	Current mal- function	Previous mal- function		
CAN COMM CIRCUIT [U1000]	0	1-39	CAN communication	<a href="#">ADP-43</a>
CONTROL UNIT (CAN) [U1010]	0	1-39	Control unit	<a href="#">ADP-44</a>
SEAT SLIDE [B2112]	0	1-39	Seat slide motor output	<a href="#">ADP-45</a>
SEAT RECLINING [B2113]	0	1-39	Seat reclining motor output	<a href="#">ADP-46</a>
STEERING TILT [B2116]	0	1-39	Tilt motor output	<a href="#">ADP-47</a>
UART COMM [B2128]	0	1-39	UART communication	<a href="#">ADP-48</a>
EEPROM [B2130]	0	1-39	EEPROM	<a href="#">ADP-49</a>

- \*:
- 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.

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ADP

# AUTOMATIC DRIVE POSITIONER CONTROL UNIT

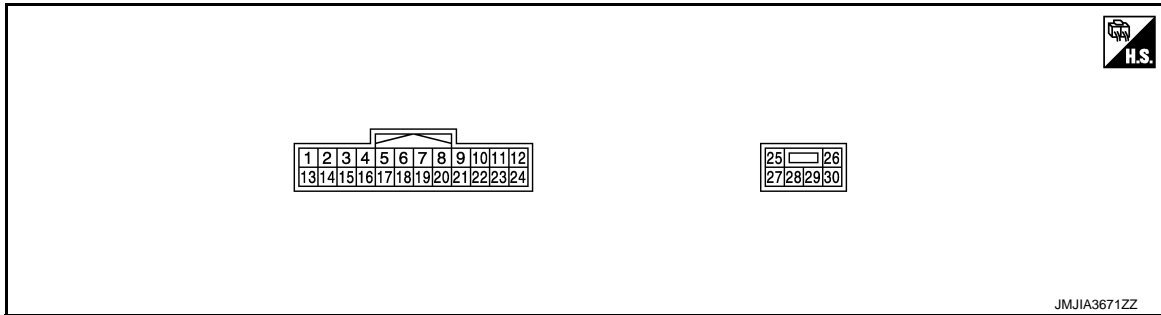
< ECU DIAGNOSIS INFORMATION >

## AUTOMATIC DRIVE POSITIONER CONTROL UNIT

Reference Value

INFOID:000000007566027

### TERMINAL LAYOUT



### PHYSICAL VALUES

Terminal No. (wire color)		Description		Condition		Voltage (V) (Approx.)
+	-	Signal name	Input/ Output			
1 (Y)	Ground	Tilt switch up signal	Input	Tilt switch	Operate (up)	0
					Other than above	5
2 (GR)	Ground	Changeover switch RH signal	Input	Changeover switch position	RH	0
					Neutral or LH	5
3 (SB)	Ground	Mirror switch up signal	Input	Mirror switch	Operated (up)	0
					Other than above	5
4 (LG)	Ground	Mirror switch left signal	Input	Mirror switch	Operated (left)	0
					Other than above	5
5 (R)	Ground	Door mirror sensor (passenger side) up/down signal	Input	Door mirror RH position		Change between 3.4 (close to peak) 0.6 (close to valley)
6 (Y)	Ground	Door mirror sensor (driver side) up/down signal	Input	Door mirror LH position		Change between 3.4 (close to peak) 0.6 (close to valley)
7 (P)	Ground	Telescopic switch forward signal	Input	Telescopic switch	Operate (forward)	0
					Other than above	5
8 (LG)	Ground	UART communication (TX/RX)	Output	Ignition switch ON		<p style="text-align: right;">JMJA1391ZZ</p>

# AUTOMATIC DRIVE POSITIONER CONTROL UNIT

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (wire color)		Description		Condition	Voltage (V) (Approx.)	
+	-	Signal name	Input/ Output			
10 (O)	Ground	Door mirror motor (passenger side) up output signal	Output	Door mirror RH	Operate (up)	12
					Other than above	0
11 (G)	Ground	Door mirror motor (passenger side) left output signal	Output	Door mirror RH	Operate (left)	12
					Other than above	0
12 (R)	Ground	Door mirror motor (driver side) down/right output signal	Output	Door mirror (LH)	Operate (down/right)	12
					Other than above	0
13 (LG)	Ground	Tilt switch down signal	Input	Tilt switch	Operate (down)	0
					Other than above	5
14 (O)	Ground	Changeover switch LH signal	Input	Changeover switch position	LH	0
					Neutral or RH	5
15 (L)	Ground	Mirror switch down signal	Input	Mirror switch	Operate (down)	0
					Other than above	5
16 (V)	Ground	Mirror switch right signal	Input	Mirror switch	Operate (right)	0
					Other than above	5
17 (W)	Ground	Door mirror sensor (passenger side) left/right signal	Input	Door mirror RH position	Change between 3.4 (close to left edge) 0.6 (close to right edge)	
18 (L)	Ground	Door mirror sensor (driver side) left/right signal	Input	Door mirror LH position	Change between 0.6 (close to left edge) 3.4 (close to right edge)	
19 (G)	Ground	Telescopic switch backward signal	Input	Telescopic switch	Operate (backward)	0
					Other than above	5
20 (Y)	Ground	Sensor ground	—	—	0	
21 (W)	Ground	Door mirror motor sensor power supply	Input	—	5	
22 (V)	Ground	Door mirror motor (passenger side) down/right output signal	Output	Door mirror (RH)	Operate (down/right)	12
					Other than above	0
23 (L)	Ground	Door mirror motor (driver side) up output signal	Output	Door mirror (LH)	Operate (up)	12
					Other than above	0

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# AUTOMATIC DRIVE POSITIONER CONTROL UNIT

## < ECU DIAGNOSIS INFORMATION >

Terminal No. (wire color)		Description		Condition	Voltage (V) (Approx.)	
+	-	Signal name	Input/ Output			
24 (SB)	Ground	Door mirror motor (driver side) left output signal	Output	Door mirror (LH)	Operate (left)	12
					Other than above	0
25 (W)	Ground	Battery power supply	Input	—	Battery voltage	
26 (L)	Ground	Telescopic motor backward output signal	Output	Steering telescopic	Operate (backward)	12
					Other than above	0
27 (P)	Ground	Tilt & telescopic sensor power supply		—	12	
28 (G)	Ground	Tilt motor down output signal	Output	Steering tilt	Operate (down)	12
					Other than above	0
29 (LG)	Ground	Tilt motor up output signal	Output	Steering tilt	Operate (up)	12
					Other than above	0
		Telescopic motor forward output signal		Steering telescopic	Operate (forward)	12
					Other than above	0
30 (B)	Ground	Ground	—	—	0	



# AUTOMATIC DRIVE POSITIONER SYSTEM


< WIRING DIAGRAM >

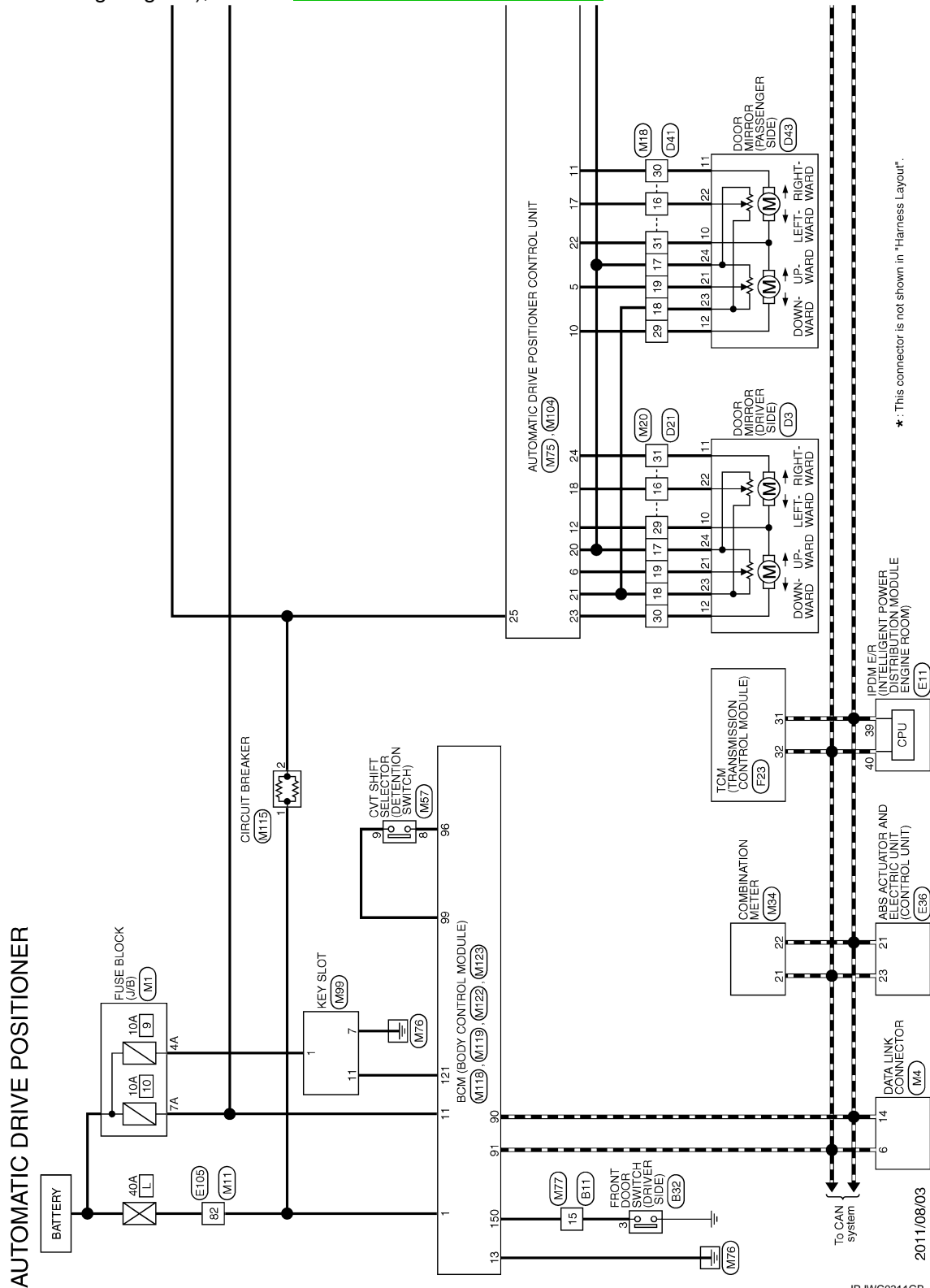
## WIRING DIAGRAM

### AUTOMATIC DRIVE POSITIONER SYSTEM

#### Wiring Diagram

INFOID:000000007566028

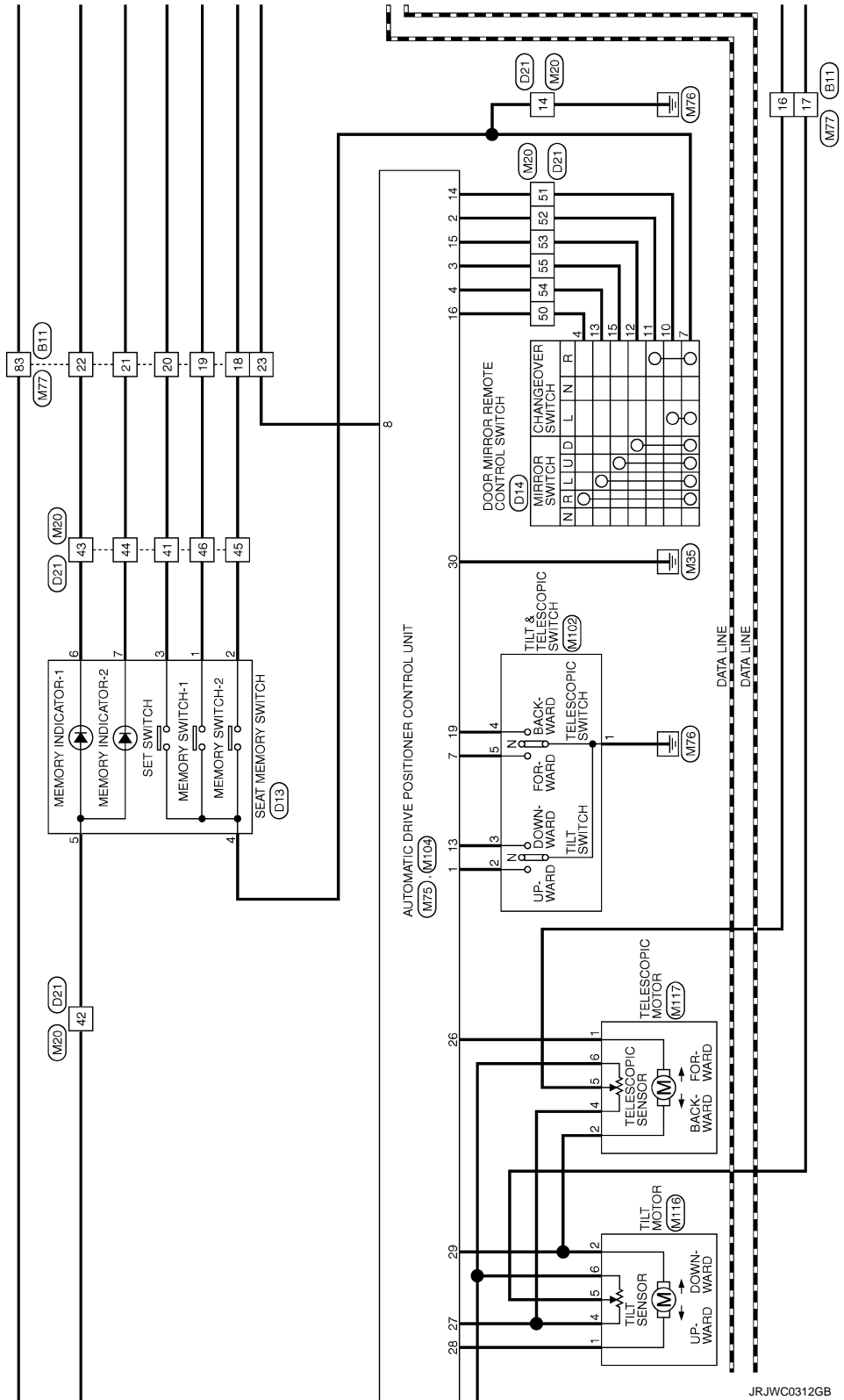
For connector terminal arrangements, harness layouts, and alphabets in a  (option abbreviation; if not described in wiring diagram), refer to [GI-12. "Connector Information"](#).



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# AUTOMATIC DRIVE POSITIONER SYSTEM

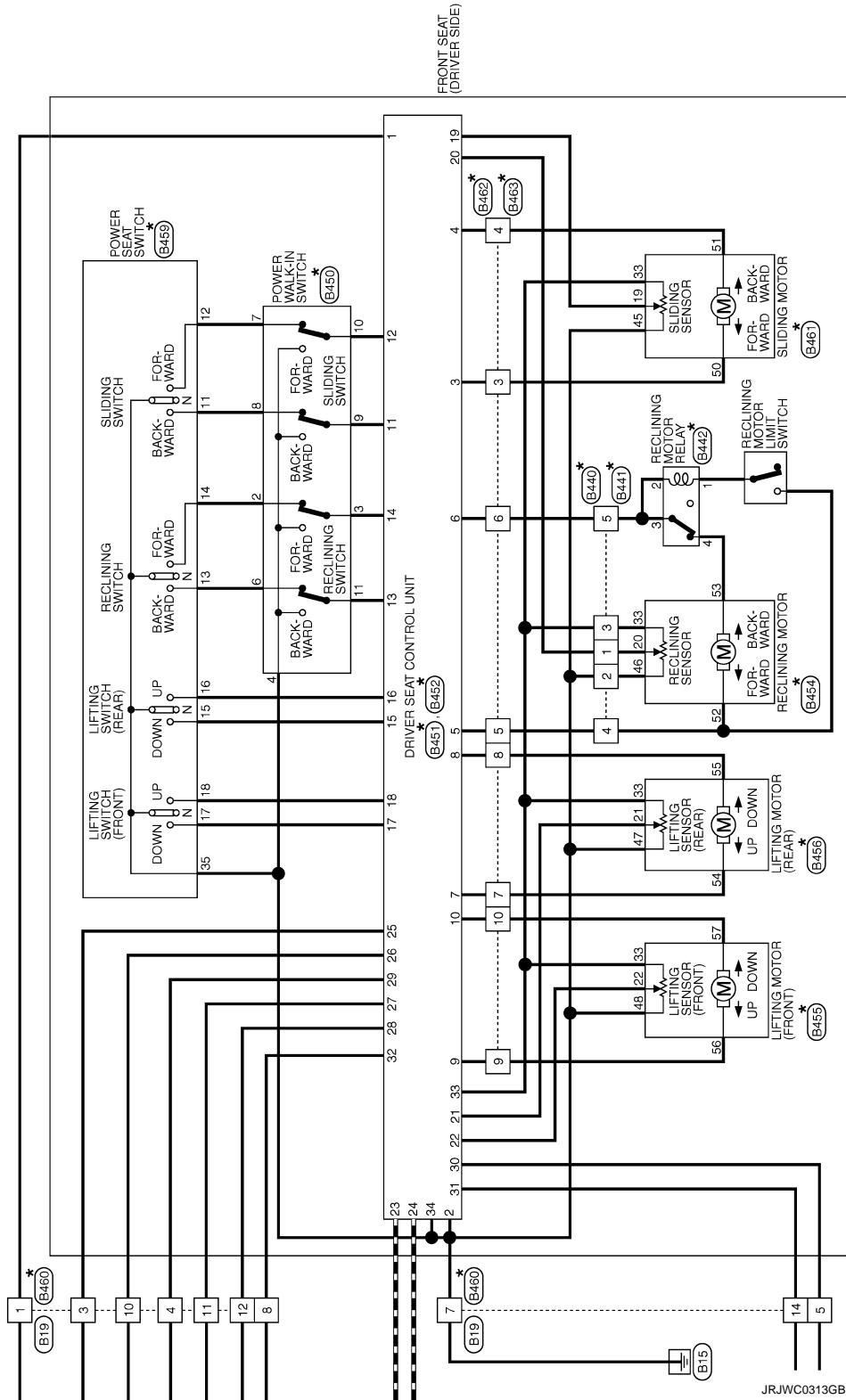
< WIRING DIAGRAM >



JRJWC0312GB

# AUTOMATIC DRIVE POSITIONER SYSTEM

< WIRING DIAGRAM >



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# DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

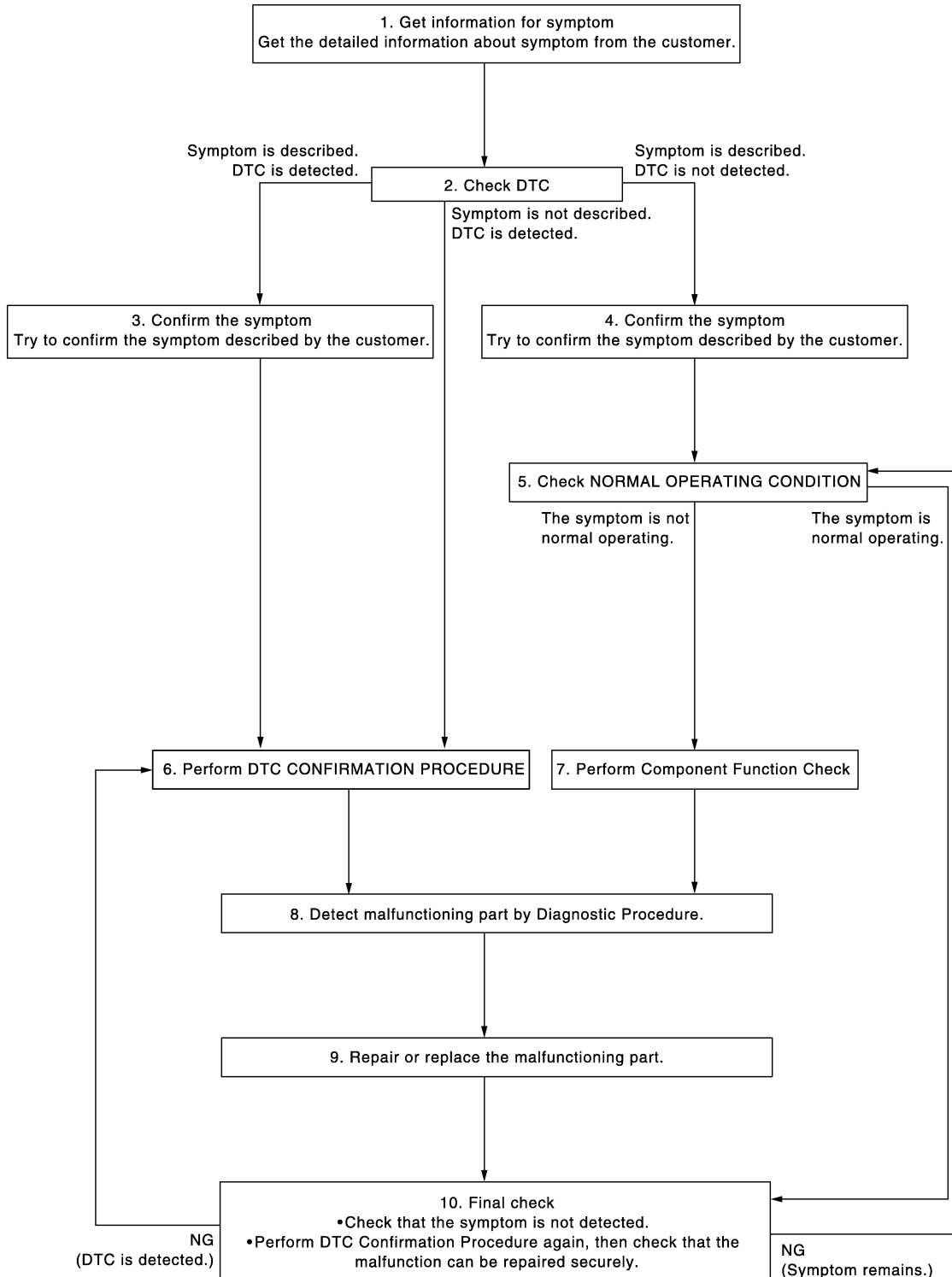
## BASIC INSPECTION

### DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:000000007566029

#### OVERALL SEQUENCE



JMJIA1702GB

#### DETAILED FLOW

# 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-29, "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-120, "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 [GI-40, "Intermittent Incident"](#).

---

## 7.PERFORM COMPONENT FUNCTION CHECK

---

Perform the component function check for the isolated malfunctioning point.

>> GO TO 8.

---

## 8.DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

---

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

>> GO TO 9.

---

## 9.REPARE OR REPLACE THE MALFUNCTIONING PARTS

---

Repair or replace the malfunctioning part.

>> GO TO 10.

---

## 10.FINAL CHECK

---

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

Are all malfunctions corrected?

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ADP

## DIAGNOSIS AND REPAIR WORK FLOW

### < BASIC INSPECTION >

---

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

# ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

< BASIC INSPECTION >

## ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

### Description

INFOID:000000007566030

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

Function	Condition	Procedure
Memory (Seat, steering, mirror)	Erased	Perform storing
Intelligent Key interlock	Erased	Perform initialization
		Perform storing

### NOTE:

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

### Work Procedure

INFOID:000000007566031

#### 1. MEMORY STORAGE

Perform memory storage. Refer to [ADP-41. "Work Procedure"](#).

>> GO TO 2.

#### 2. INTELLIGENT KEY INTERLOCK STORAGE

Perform Intelligent Key interlock storage. Refer to [ADP-42. "Work Procedure"](#).

>> END

ADP

# ADDITIONAL SERVICE WHEN REMOVING DRIVER SEAT CONTROL UNIT

< BASIC INSPECTION >

## ADDITIONAL SERVICE WHEN REMOVING DRIVER SEAT CONTROL UNIT

### Description

INFOID:000000007566032

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

Function	Condition	Procedure
Memory (Seat, steering, mirror)	Erased	Perform storing
Intelligent Key interlock	Erased	Perform initialization
		Perform storing

### NOTE:

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

### Work Procedure

INFOID:000000007566033

#### 1.MEMORY STORAGE

Perform memory storage. Refer to [ADP-41, "Work Procedure"](#).

>> GO TO 2.

#### 2.INTELLIGENT KEY INTERLOCK STORAGE

Perform Intelligent Key interlock storage. Refer to [ADP-42, "Work Procedure"](#).

>> END



# MEMORY STORING

< BASIC INSPECTION >

## MEMORY STORING

### Description

INFOID:000000007566034

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

### Work Procedure

INFOID:000000007566035

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

#### NOTE:

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

#### 1.STEP 1

Check the following conditions.

- Ignition switch: ON
- CVT shift selector: P position

>> GO TO 2.

#### 2.STEP 2

1. Adjust driver seat and outside mirror position manually.
2. Push set switch.

#### NOTE:

- Memory indicator for which driver seat position is already retained in memory is illuminated for 5 seconds.
  - Memory indicator for which driver seat position is not retained in memory is illuminated for 0.5 second.
3. Push the memory switch (1 or 2) for at least 1 second within 5 seconds after pushing the set switch.

#### NOTE:

- To enter driver seat positions into blank memory, memory indicator will be turned on for 5 seconds.
  - To modify driver seat positions, memory indicator will be turned OFF for 0.5 second, then turned ON for 5 seconds.
4. Confirm the operation of each part with memory operation.

>> END

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# INTELLIGENT KEY INTERLOCK STORING

< BASIC INSPECTION >

---

## INTELLIGENT KEY INTERLOCK STORING

### Description

INFOID:000000007566036

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

### Work Procedure

INFOID:000000007566037

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

---

1. Push set switch.

**NOTE:**

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

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

**NOTE:**

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

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

>> END

# U1000 CAN COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

## DTC/CIRCUIT DIAGNOSIS

### U1000 CAN COMM CIRCUIT

#### Description

INFOID:000000007566038

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

INFOID:000000007566039

#### DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
U1000	CAN COMM CIRCUIT	<ul style="list-style-type: none"><li>Driver seat control unit cannot communicate to other control units.</li><li>Driver seat control unit cannot communicate for more than the specified time.</li></ul>	<ul style="list-style-type: none"><li>Harness or connectors (CAN communication line is open or shorted)</li></ul>

#### 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 [ADP-43, "Diagnosis Procedure"](#).

NO >> INSPECTION END

#### Diagnosis Procedure

INFOID:000000007566040

Refer to [LAN-15, "Trouble Diagnosis Flow Chart"](#).

#### Special Repair Requirement

INFOID:000000007566041

Refer to [ADP-40, "Description"](#).

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## U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

### U1010 CONTROL UNIT (CAN)

#### DTC Logic

INFOID:000000007566042

#### 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 controller of driver seat control unit.	<ul style="list-style-type: none"><li>• Driver seat control unit</li></ul>

#### Diagnosis Procedure

INFOID:000000007566043

#### 1. REPLACE DRIVER SEAT CONTROL UNIT

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

>> Replace driver seat control unit. Refer to [ADP-121, "Removal and Installation"](#).

# B2112 SLIDING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

## B2112 SLIDING MOTOR

### DTC Logic

INFOID:000000007566044

### 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 sliding motor output terminal for 0.1 second or more even if the sliding switch is not input.	<ul style="list-style-type: none"><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-45, "Diagnosis Procedure"](#).  
NO >> INSPECTION END

### Diagnosis Procedure

INFOID:000000007566045

#### 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.

(+)		(-)	Voltage (V) (Approx.)
Sliding motor			
Connector	Terminals	Ground	0
B461	50		
	51		

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) (Approx.)
Driver seat control unit			
Connector	Terminals	Ground	0
B451	3		
	4		

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-40, "Intermittent Incident"](#).  
NO >> Replace driver seat control unit. Refer to [ADP-121, "Removal and Installation"](#)

# B2113 RECLINING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

## B2113 RECLINING MOTOR

### DTC Logic

INFOID:000000007566046

### DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2113	SEAT RECLINING	The driver seat control unit detects the output of reclining motor output terminal for 0.1 second or more even if the reclining switch is not input.	<ul style="list-style-type: none"><li>• Driver seat control unit</li><li>• Reclining 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-46, "Diagnosis Procedure"](#).  
NO >> INSPECTION END

### Diagnosis Procedure

INFOID:000000007566047

#### 1. CHECK RECLINING MOTOR CIRCUIT (POWER SHORT)

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

(+)		(-)	Voltage (V) (Approx.)
Reclining motor			
Connector	Terminals	Ground	0
B454	52		
	53		

#### 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) (Approx.)
Driver seat control unit			
Connector	Terminals	Ground	0
B451	5		
	6		

#### Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-40, "Intermittent Incident"](#).  
NO >> Replace driver seat control unit. Refer to [ADP-121, "Removal and Installation"](#).

# B2116 TILT MOTOR

< DTC/CIRCUIT DIAGNOSIS >

## B2116 TILT MOTOR

### DTC Logic

INFOID:000000007566048

### DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2116	STEERING TILT	The automatic drive positioner control unit detects the output of reclining motor output terminal for 0.1 second or more even if the tilt switch is not input.	<ul style="list-style-type: none"> <li>Automatic drive positioner control unit</li> <li>Tilt motor harness is shorted</li> </ul>

### DTC CONFIRMATION PROCEDURE

#### 1. PERFORM DTC CONFIRMATION PROCEDURE

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

Is the DTC detected?

- YES >> Refer to [ADP-47, "Diagnosis Procedure"](#).  
 NO >> INSPECTION END

### Diagnosis Procedure

INFOID:000000007566049

#### 1. CHECK TILT MOTOR CIRCUIT (POWER SHORT)

- Turn ignition switch OFF.
- Disconnect automatic drive positioner control unit connector and tilt motor connector.
- Check voltage between tilt motor harness connector and ground.

(+)		(-)	Voltage (V) (Approx.)
Tilt motor			
Connector	Terminals	Ground	0
M116	1		
	2		

Is the inspection result normal?

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

#### 2. CHECK AUTOMATIC DRIVER POSITIONER CONTROL UNIT OUTPUT SIGNAL

- Connect automatic drive positioner control unit connector.
- Check voltage between automatic drive positioner control unit harness connector and ground.

(+)		(-)	Voltage (V) (Approx.)
Automatic drive positioner control unit			
Connector	Terminals	Ground	0
M104	28		
	29		

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-40, "Intermittent Incident"](#).  
 NO >> Replace automatic drive positioner control unit. Refer to [ADP-122, "Removal and Installation"](#).

# B2128 UART COMMUNICATION LINE

< DTC/CIRCUIT DIAGNOSIS >

## B2128 UART COMMUNICATION LINE

### Description

INFOID:000000007566050

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 tilt & telescopic switch, 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:000000007566051

### 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 style="list-style-type: none"><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 [ADP-48, "Diagnosis Procedure"](#).  
NO >> INSPECTION END

### Diagnosis Procedure

INFOID:000000007566052

#### 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.
3. Check continuity between driver seat control unit harness connector and automatic drive positioner control unit harness connector.

Driver seat control unit		Automatic drive positioner control unit		Continuity
Connector	Terminal	Connector	Terminal	
B452	32	M75	8	Existed

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

Driver seat control unit		Ground	Continuity
Connector	Terminal		
B452	32		Not existed

#### Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-40, "Intermittent Incident"](#).  
NO >> Repair or replace harness or connector.



# B2130 EEPROM

< DTC/CIRCUIT DIAGNOSIS >

## B2130 EEPROM

### DTC Logic

INFOID:000000007566053

### DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2130	EEPROM	Driver seat control unit detected CPU malfunction.	Driver seat control unit

### DTC CONFIRMATION PROCEDURE

#### 1.PERFORM DTC CONFIRMATION PROCEDURE

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

#### Is the DTC detected?

- YES >> Refer to [ADP-49, "Diagnosis Procedure"](#).  
NO >> INSPECTION END

### Diagnosis Procedure

INFOID:000000007566054

#### 1.REPLACE DRIVER SEAT CONTROL UNIT

Replace driver seat control unit. Refer to [ADP-121, "Removal and Installation"](#).

>> INSPECTION END

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ADP

# POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

## POWER SUPPLY AND GROUND CIRCUIT DRIVER SEAT CONTROL UNIT

### DRIVER SEAT CONTROL UNIT : Diagnosis Procedure

INFOID:000000007566055

#### 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 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.

(+)		(-)	Voltage (V) (Approx.)
Driver seat control unit			
Connector	Terminals		
B451	1	Ground	Battery voltage

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 GROUND CIRCUIT

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

Driver seat control unit		Ground	Continuity
Connector	Terminal		
B451	2		Existed
B452	34		

Is the inspection result normal?

- YES >> INSPECTION END  
NO >> Repair or replace harness or connector.

## AUTOMATIC DRIVE POSITIONER CONTROL UNIT

### AUTOMATIC DRIVE POSITIONER CONTROL UNIT : Diagnosis Procedure

INFOID:000000007566056

#### 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.

# POWER SUPPLY AND GROUND CIRCUIT

## < DTC/CIRCUIT DIAGNOSIS >

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

Is the inspection result normal?

YES >> GO TO 2.

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.

### 2.CHECK POWER SUPPLY

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

(+)		(-)	Voltage (V) (Approx.)
Automatic drive positioner control unit			
Connector	Terminals	Ground	Battery voltage
M104	25		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

### 3.CHECK GROUND CIRCUIT

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

Automatic drive positioner control unit		Ground	Continuity
Connector	Terminal		
M104	30		Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness or connector.

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ADP

# SLIDING SWITCH

< DTC/CIRCUIT DIAGNOSIS >

## SLIDING SWITCH

### Component Function Check

INFOID:000000007566057

#### 1.CHECK FUNCTION

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

Monitor item	Condition	Status
SLIDE SW-FR	Operate (forward)	ON
	Other than the above	OFF
SLIDE SW-RR	Operate (backward)	ON
	Other than the above	OFF

Is the indication normal?

- YES >> INSPECTION END  
 NO >> Refer to [ADP-52, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000007566058

#### 1.CHECK POWER SEAT SWITCH (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.

(+)		(-)	Voltage (V) (Approx.)
Power seat switch			
Connector	Terminals	Ground	12
B459	11		
	12		

Is the inspection result normal?

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

#### 2.CHECK POWER SEAT SWITCH (SLIDING SWITCH) CIRCUIT

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

Power walk-in switch		Power seat switch		Continuity
Connector	Terminal	Connector	Terminal	
B450	7	B459	12	Existed
	8		11	

4. Check continuity between power walk-in switch harness connector and ground.

Power walk-in switch		Ground	Continuity
Connector	Terminal		
B450	7	Ground	Not existed
	8		

Is the inspection result normal?

- YES >> GO TO 4.

# SLIDING SWITCH

## < DTC/CIRCUIT DIAGNOSIS >

NO >> Repair or replace harness or connector.

### 3.CHECK POWER SEAT SWITCH

Refer to [ADP-54, "Component Inspection \(Power Seat Switch\)"](#).

Is the inspection result normal?

YES >> GO TO 8.

NO >> Replace power seat switch. Refer to [ADP-124, "Removal and Installation"](#).

### 4.CHECK POWER WALK-IN SWITCH (SLIDING SWITCH) INPUT SIGNAL

1. Turn ignition switch ON.
2. Check voltage between power walk-in switch harness connector and ground.

(+)		(-)	Voltage (V) (Approx.)
Power walk-in switch			
Connector	Terminals	Ground	12
B450	9		
	10		

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 5.

### 5.CHECK POWER WALK-IN SWITCH (SLIDING 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 power walk-in switch harness connector.

Driver seat control unit		Power walk-in switch		Continuity
Connector	Terminal	Connector	Terminal	
B452	11	B450	9	Existed
	12		10	

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

Driver seat control unit		Ground	Continuity
Connector	Terminal		
B452	11	Ground	Not existed
	12		

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to [ADP-121, "Removal and Installation"](#).

NO >> Repair or replace harness or connector.

### 6.CHECK POWER WALK-IN SWITCH GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between power walk-in switch harness connector and ground.

Power walk-in switch		Ground	Continuity
Connector	Terminal		
B450	4	Ground	Existed

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace harness or connector.

### 7.CHECK POWER WALK-IN SWITCH

Refer to [ADP-54, "Component Inspection \(Power Walk-in Switch\)"](#).

# SLIDING SWITCH

## < DTC/CIRCUIT DIAGNOSIS >

### Is the inspection result normal?

YES >> GO TO 8.

NO >> Replace power walk-in switch. Refer to [ADP-125. "Removal and Installation"](#).

## 8.CHECK INTERMITTENT INCIDENT

Refer to [GI-40. "Intermittent Incident"](#).

>> INSPECTION END

## Component Inspection (Power Seat Switch)

INFOID:000000007566059

### 1.CHECK POWER SEAT SWITCH

1. Turn ignition switch OFF.
2. Disconnect power seat switch connector.
3. Check continuity between power seat switch terminals under the following conditions.

Terminal		Condition		Continuity
11	35	Sliding switch	Operate (backward)	Existed
			Other than the above	Not existed
12			Operate (forward)	Existed
			Other than the above	Not existed

### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to [ADP-124. "Removal and Installation"](#).

## Component Inspection (Power Walk-in Switch)

INFOID:000000007566060

### 1.CHECK POWER WALK-IN SWITCH 1

1. Turn ignition switch OFF.
2. Disconnect power walk-in switch connector.
3. Check continuity between power walk-in switch terminals under the following conditions.

Terminal		Condition		Continuity
9	4	Sliding switch	Operate (backward)	Existed
			Other than the above	Not existed
10			Operate (forward)	Existed
			Other than the above	Not existed

### Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace power walk-in switch. Refer to [ADP-125. "Removal and Installation"](#).

### 2.CHECK POWER WALK-IN SWITCH 2

Check continuity between power walk-in switch terminals under the following conditions.

Terminal		Condition		Continuity
9	8	Sliding switch	Operate (backward)	Not existed
			Other than the above	Existed
10	7		Operate (forward)	Not existed
			Other than the above	Existed

### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power walk-in switch. Refer to [ADP-125. "Removal and Installation"](#).

# RECLINING SWITCH

< DTC/CIRCUIT DIAGNOSIS >

## RECLINING SWITCH

### Component Function Check

INFOID:000000007566061

#### 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	Operate (forward)	ON
	Other than the above	OFF
RECLINE SW-RR	Operate (backward)	ON
	Other than the above	OFF

Is the indication normal?

- YES >> INSPECTION END  
 NO >> Refer to [ADP-55. "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000007566062

#### 1.CHECK POWER SEAT SWITCH (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.

(+)		(-)	Voltage (V) (Approx.)
Power seat switch			
Connector	Terminals	Ground	12
B459	13		
	14		

Is the inspection result normal?

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

#### 2.CHECK POWER SEAT SWITCH (RECLINING SWITCH) CIRCUIT

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

Power walk-in switch		Power seat switch		Continuity
Connector	Terminal	Connector	Terminal	
B450	2	B459	14	Existed
	6		13	

4. Check continuity between power walk-in switch harness connector and ground.

Power walk-in switch		Ground	Continuity
Connector	Terminal		
B450	2	Ground	Not existed
	6		

Is the inspection result normal?

- YES >> GO TO 4.

# RECLINING SWITCH

## < DTC/CIRCUIT DIAGNOSIS >

NO >> Repair or replace harness or connector.

### 3.CHECK POWER SEAT SWITCH

Refer to [ADP-57, "Component Inspection \(Power Seat Switch\)"](#).

Is the inspection result normal?

YES >> GO TO 8.

NO >> Replace power seat switch. Refer to [ADP-124, "Removal and Installation"](#).

### 4.CHECK POWER WALK-IN SWITCH (RECLINING SWITCH) INPUT SIGNAL

1. Turn ignition switch ON.
2. Check voltage between power walk-in switch harness connector and ground.

(+)		(-)	Voltage (V) (Approx.)
Power walk-in switch			
Connector	Terminals	Ground	12
B450	3		
	11		

Is the inspection result normal?

YES >> GO TO 6.

NO >> GO TO 5.

### 5.CHECK POWER WALK-IN SWITCH (RECLINING 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 power walk-in switch harness connector.

Driver seat control unit		Power walk-in switch		Continuity
Connector	Terminal	Connector	Terminal	
B452	13	B450	11	Existed
	14		3	

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

Driver seat control unit		Ground	Continuity
Connector	Terminal		
B452	13	Ground	Not existed
	14		

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to [ADP-121, "Removal and Installation"](#).

NO >> Repair or replace harness or connector.

### 6.CHECK POWER WALK-IN SWITCH GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between power walk-in switch harness connector and ground.

Power walk-in switch		Ground	Continuity
Connector	Terminal		
B450	4	Ground	Existed

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace harness or connector.

### 7.CHECK POWER WALK-IN SWITCH

Refer to [ADP-57, "Component Inspection \(Power Walk-in Switch\)"](#).



# RECLINING SWITCH

## < DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> GO TO 8.

NO >> Replace power walk-in switch. Refer to [ADP-125. "Removal and Installation"](#).

## 8.CHECK INTERMITTENT INCIDENT

Refer to [GI-40. "Intermittent Incident"](#).

>> INSPECTION END

## Component Inspection (Power Seat Switch)

INFOID:000000007566063

### 1.CHECK POWER SEAT SWITCH

1. Turn ignition switch OFF.
2. Disconnect power seat switch connector.
3. Check continuity between power seat switch terminals under the following conditions.

Terminal		Condition		Continuity
13	35	Reclining switch	Operate (backward)	Existed
			Other than the above	Not existed
14			Operate (forward)	Existed
			Other than the above	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to [ADP-124. "Removal and Installation"](#).

## Component Inspection (Power Walk-in Switch)

INFOID:000000007566064

### 1.CHECK POWER WALK-IN SWITCH 1

1. Turn ignition switch OFF.
2. Disconnect power walk-in switch connector.
3. Check continuity between power walk-in switch terminals under the following conditions.

Terminal		Condition		Continuity
3	4	Reclining switch	Operate (forward)	Existed
			Other than the above	Not existed
11			Operate (backward)	Existed
			Other than the above	Not existed

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace power walk-in switch. Refer to [ADP-125. "Removal and Installation"](#).

### 2.CHECK POWER WALK-IN SWITCH 2

Check continuity between power walk-in switch terminals under the following conditions.

Terminal		Condition		Continuity
3	2	Reclining switch	Operate (forward)	Not existed
			Other than the above	Existed
11	6		Operate (backward)	Not existed
			Other than the above	Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power walk-in switch. Refer to [ADP-125. "Removal and Installation"](#).

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ADP

# LIFTING SWITCH (FRONT)

< DTC/CIRCUIT DIAGNOSIS >

## LIFTING SWITCH (FRONT)

### Component Function Check

INFOID:000000007566065

#### 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	Condition	Status
LIFT FR SW-UP	Operate (up)	ON
	Other than the above	OFF
LIFT FR SW-DN	Operate (down)	ON
	Other than the above	OFF

Is the indication normal?

- YES >> INSPECTION END  
 NO >> Refer to [ADP-58, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000007566066

#### 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.

(+)		(-)	Voltage (V) (Approx.)
Power seat switch			
Connector	Terminals	Ground	12
B459	17		
	18		

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.
3. 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	
B452	17	B459	17	Existed
	18		18	

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

Driver seat control unit		Ground	Continuity
Connector	Terminal		
B452	17	Ground	Not existed
	18		

Is the inspection result normal?

- YES >> Replace driver seat control unit. Refer to [ADP-121, "Removal and Installation"](#).

# LIFTING SWITCH (FRONT)

## < DTC/CIRCUIT DIAGNOSIS >

NO >> Repair or replace harness or connector.

### 3.CHECK LIFTING SWITCH (FRONT)

Refer to [ADP-59, "Component Inspection"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-40, "Intermittent Incident"](#).

NO >> Replace power seat switch. Refer to [ADP-124, "Removal and Installation"](#).

## Component Inspection

INFOID:000000007566067

### 1.CHECK POWER SEAT SWITCH

1. Turn ignition switch OFF.
2. Disconnect power seat switch connector.
3. Check continuity between power seat switch terminals under the following conditions.

Terminal		Condition	Continuity
17	35	Operate (down)	Existed
		Other than the above	Not existed
18		Operate (up)	Existed
		Other than the above	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to [ADP-124, "Removal and Installation"](#).

ADP

# LIFTING SWITCH (REAR)

< DTC/CIRCUIT DIAGNOSIS >

## LIFTING SWITCH (REAR)

### Component Function Check

INFOID:000000007566068

#### 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	Operate (up)	ON
	Other than the above	OFF
LIFT RR SW-DN	Operate (down)	ON
	Other than the above	OFF

Is the indication normal?

- YES >> INSPECTION END  
 NO >> Refer to [ADP-60, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000007566069

#### 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.

(+)		(-)	Voltage (V) (Approx.)
Power seat switch			
Connector	Terminals	Ground	12
B459	15		
	16		

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.
3. 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	
B452	15	B459	15	Existed
	16		16	

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

Driver seat control unit		Ground	Continuity
Connector	Terminal		
B452	15	Ground	Not existed
	16		

Is the inspection result normal?

- YES >> Replace driver seat control unit. Refer to [ADP-121, "Removal and Installation"](#).

# LIFTING SWITCH (REAR)

## < DTC/CIRCUIT DIAGNOSIS >

NO >> Repair or replace harness or connector.

### 3.CHECK LIFTING SWITCH (REAR)

Refer to [ADP-61, "Component Inspection"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-40, "Intermittent Incident"](#).

NO >> Replace power seat switch. Refer to [ADP-124, "Removal and Installation"](#).

## Component Inspection

INFOID:000000007566070

### 1.CHECK POWER SEAT SWITCH

1. Turn ignition switch OFF.
2. Disconnect power seat switch connector.
3. Check continuity between power seat switch terminals under the following conditions.

Terminal		Condition	Continuity	
15	35	Lifting switch (rear)	Operate (down)	Existed
			Other than the above	Not existed
16			Operate (up)	Existed
			Other than the above	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to [ADP-124, "Removal and Installation"](#).

ADP

# TILT SWITCH

< DTC/CIRCUIT DIAGNOSIS >

## TILT SWITCH

### Component Function Check

INFOID:000000007566071

#### 1.CHECK FUNCTION

1. Select "TILT SW-UP", "TILT SW-DOWN" in "Data monitor" mode with CONSULT.
2. Check tilt switch signal under the following conditions.

Monitor item	Condition		Status
TILT SW-UP	Tilt switch	Operate (up)	ON
		Other than the above	OFF
TILT SW-DOWN		Operate (down)	ON
		Other than the above	OFF

Is the indication normal?

- YES >> INSPECTION END  
 NO >> Refer to [ADP-62, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000007566072

#### 1.CHECK TILT SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect tilt & telescopic switch connector.
3. Turn ignition switch ON.
4. Check voltage between tilt & telescopic switch harness connector and ground.

(+)		(-)	Voltage (V) (Approx.)
Tilt & telescopic switch			
Connector	Terminals	Ground	5
M102	2		
	3		

Is the inspection result normal?

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

#### 2.CHECK TILT 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 tilt & telescopic switch harness connector.

Automatic drive positioner control unit		Tilt & telescopic switch		Continuity
Connector	Terminal	Connector	Terminal	
M75	1	M102	2	Existed
	13		3	

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

Automatic drive positioner control unit		Ground	Continuity
Connector	Terminal		
M75	1		Not existed
	13		

Is the inspection result normal?

- YES >> Replace automatic drive positioner control unit. Refer to [ADP-122, "Removal and Installation"](#).

# TILT SWITCH

## < DTC/CIRCUIT DIAGNOSIS >

NO >> Repair or replace harness or connector.

### 3.CHECK TILT & TELESCOPIC SWITCH

Refer to [ADP-63, "Component Inspection"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-40, "Intermittent Incident"](#).

NO >> Replace tilt & telescopic switch. Refer to [ADP-126, "Removal and Installation"](#).

## Component Inspection

INFOID:000000007566073

### 1.CHECK TILT & TELESCOPIC SWITCH

1. Turn ignition switch OFF.
2. Disconnect tilt & telescopic switch connector.
3. Check continuity between tilt & telescopic switch terminals under the following conditions.

Terminal		Condition		Continuity
2	1	Tilt switch	Operate (up)	Existed
			Other than the above	Not existed
3			Operate (down)	Existed
			Other than the above	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace tilt & telescopic switch. Refer to [ADP-126, "Removal and Installation"](#).

ADP

# TELESCOPIC SWITCH

< DTC/CIRCUIT DIAGNOSIS >

## TELESCOPIC SWITCH

### Component Function Check

INFOID:000000007566074

#### 1. CHECK FUNCTION

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

Monitor item	Condition	Status
TELESCO SW-FR	Operate (forward)	ON
	Other than the above	OFF
TELESCO SW-RR	Operate (backward)	ON
	Other than the above	OFF

Is the indication normal?

- YES >> INSPECTION END  
 NO >> Refer to [ADP-64, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000007566075

#### 1. CHECK TELESCOPIC SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect tilt & telescopic switch connector.
3. Turn ignition switch ON.
4. Check voltage between tilt & telescopic switch harness connector and ground.

(+)		(-)	Voltage (V) (Approx.)
Tilt & telescopic switch			
Connector	Terminals	Ground	5
M102	4		
	5		

Is the inspection result normal?

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

#### 2. CHECK TELESCOPIC 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 tilt & telescopic switch harness connector.

Automatic drive positioner control unit		Tilt & telescopic switch		Continuity
Connector	Terminal	Connector	Terminal	
M75	7	M102	5	Existed
	19		4	

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

Automatic drive positioner control unit		Ground	Continuity
Connector	Terminal		
M75	7		Ground
	19		

Is the inspection result normal?

- YES >> Replace automatic drive positioner control unit. Refer to [ADP-122, "Removal and Installation"](#).



# TELESCOPIC SWITCH

## < DTC/CIRCUIT DIAGNOSIS >

NO >> Repair or replace harness or connector.

### 3.CHECK TILT & TELESCOPIC SWITCH

Refer to [ADP-65, "Component Inspection"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-40, "Intermittent Incident"](#).

NO >> Replace tilt & telescopic switch. Refer to [ADP-126, "Removal and Installation"](#).

## Component Inspection

INFOID:000000007566076

### 1.CHECK TILT & TELESCOPIC SWITCH

1. Turn ignition switch OFF.
2. Disconnect tilt & telescopic switch connector.
3. Check continuity between tilt & telescopic switch terminals under the following conditions.

Terminal		Condition		Continuity
4	1	Telescopic switch	Operate (backward)	Existed
			Other than the above	Not existed
5			Operate (forward)	Existed
			Other than the above	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace tilt & telescopic switch. Refer to [ADP-126, "Removal and Installation"](#).

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# SEAT MEMORY SWITCH

< DTC/CIRCUIT DIAGNOSIS >

## SEAT MEMORY SWITCH

### Component Function Check

INFOID:000000007566077

#### 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
		Other than the above	OFF
MEMORY SW 2	Memory switch 2	Push	ON
		Other than the above	OFF
SET SW	Set switch	Push	ON
		Other than the above	OFF

Is the indication normal?

- YES >> INSPECTION END  
 NO >> Refer to [ADP-66, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000007566078

#### 1.CHECK SEAT MEMORY SWITCH INPUT SIGNAL

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

(+)		(-)	Voltage (V) (Approx.)
Driver seat control unit			
Connector	Terminals	Ground	5
B452	27		
	28		
	29		

Is the inspection result normal?

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

#### 2.CHECK MEMORY SWITCH CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect seat memory switch 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	
B452	27	D13	1	Existed
	28		2	
	29		3	

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

# SEAT MEMORY SWITCH

## < DTC/CIRCUIT DIAGNOSIS >

Driver seat control unit		Ground	Continuity
Connector	Terminal		
B452	27	Ground	Not existed
	28		
	29		

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to [ADP-121, "Removal and Installation"](#).

NO >> Repair or replace harness or connector.

### 3.CHECK SEAT MEMORY SWITCH GROUND CIRCUIT

Check continuity between seat memory switch harness connector and ground.

Seat memory switch		Ground	Continuity
Connector	Terminal		
D13	4	Ground	Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness or connector.

### 4.CHECK SEAT MEMORY SWITCH

Refer to [ADP-67, "Component Inspection"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-40, "Intermittent Incident"](#).

NO >> Replace seat memory switch. Refer to [ADP-123, "Removal and Installation"](#).

## Component Inspection

INFOID:000000007566079

### 1.CHECK SEAT MEMORY SWITCH

1. Turn ignition switch OFF.
2. Disconnect seat memory switch connector.
3. Check continuity between seat memory switch terminals under the following conditions.

Terminal	4	Condition	Continuity
1		4	Memory switch 1
			Other than the above Not existed
2	4	Memory switch 2	Push Existed
			Other than the above Not existed
3	4	Set switch	Push Existed
			Other than the above Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace seat memory switch. Refer to [ADP-123, "Removal and Installation"](#).

ADP

# DOOR MIRROR REMOTE CONTROL SWITCH

< DTC/CIRCUIT DIAGNOSIS >

## DOOR MIRROR REMOTE CONTROL SWITCH MIRROR SWITCH

### MIRROR SWITCH : Component Function Check

INFOID:000000007566080

#### 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
	Other than above.	: OFF
MIR CON SW-RH/LH	When operating the mirror switch toward the right or left side.	: ON
	Other than above.	: OFF

Is the inspection result normal?

YES >> INSPECTION END

NO >> Refer to [ADP-68, "MIRROR SWITCH : Diagnosis Procedure"](#).

### MIRROR SWITCH : Diagnosis Procedure

INFOID:000000007566081

#### 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) (Approx.)
Connector	Terminal		
D14	4	Ground	5
	12		
	13		
	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	
M75	3	D14	15	Existed
	4		13	
	15		12	
	16		4	

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

# DOOR MIRROR REMOTE CONTROL SWITCH

## < DTC/CIRCUIT DIAGNOSIS >

Automatic drive positioner control unit		Ground	Continuity
Connector	Terminal		
M75	3	Ground	Not existed
	4		
	15		
	16		

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to [ADP-121, "Removal and Installation"](#).

NO >> Repair or replace harness or connector.

### 3.CHECK DOOR MIRROR REMOTE CONTROL SWITCH GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between door mirror remote control switch harness connector and ground.

Door mirror remote control switch		Ground	Continuity
Connector	Terminal		
D14	7	Ground	Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness or connector.

### 4.CHECK MIRROR SWITCH

Refer to [ADP-69, "MIRROR SWITCH : Component Inspection"](#).

Is the inspection result normal?

YES >> Check intermittent incident. Refer to [GI-40, "Intermittent Incident"](#).

NO >> Replace door mirror remote control switch. Refer to [MIR-23, "Removal and Installation"](#).

## MIRROR SWITCH : Component Inspection

INFOID:000000007566082

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### 1.CHECK DOOR MIRROR REMOTE CONTROL SWITCH

1. Turn ignition switch OFF.
2. Disconnect door mirror remote control switch connector.
3. Check continuity between door mirror remote control switch terminals under the following conditions.

Terminal	7	Mirror switch	Condition	Continuity
4			7	Mirror switch
12	Other than above	Not existed		
	Down	Existed		
13	Other than above	Not existed		
	Left	Existed		
15	Other than above	Not existed		
	Up	Existed		
	Other than above	Not existed		

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace door mirror remote control switch. Refer to [MIR-23, "Removal and Installation"](#).

## CHANGEOVER SWITCH

### CHANGEOVER SWITCH : Component Function Check

INFOID:000000007566083

### 1.CHECK CHANGEOVER SWITCH FUNCTION

# DOOR MIRROR REMOTE CONTROL SWITCH

## < DTC/CIRCUIT DIAGNOSIS >

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

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Refer to [ADP-70. "CHANGEOVER SWITCH : Diagnosis Procedure"](#).

## CHANGEOVER SWITCH : Diagnosis Procedure

INFOID:000000007566084

### 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.

(+)		(-)	Voltage (V) (Approx.)
Connector	Terminal		
D14	10	Ground	5
	11		

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 positioner control unit		Door mirror remote control switch		Continuity
Connector	Terminal	Connector	Terminal	
M75	2	D14	11	Existed
	14		10	

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

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

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to [ADP-122. "Removal and Installation"](#).

NO >> Repair or replace harness or connector.

### 3.CHECK DOOR MIRROR REMOTE CONTROL SWITCH GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Check continuity between door mirror remote control switch harness connector and ground.

# DOOR MIRROR REMOTE CONTROL SWITCH

## < DTC/CIRCUIT DIAGNOSIS >

Door mirror remote control switch		Ground	Continuity
Connector	Terminal		
D14	7		Existed

Is the inspection result normal?

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

### 4.CHECK CHANGEOVER SWITCH

Refer to [ADP-71, "CHANGEOVER SWITCH : Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-40, "Intermittent Incident"](#).
- NO >> Replace door mirror remote control switch. Refer to [MIR-23, "Removal and Installation"](#).

### CHANGEOVER SWITCH : Component Inspection

INFOID:000000007566085

#### 1.CHECK DOOR MIRROR REMOTE CONTROL SWITCH

1. Turn ignition switch OFF.
2. Disconnect door mirror remote control switch connector.
3. Check continuity between door mirror remote control switch terminals under the following conditions.

Terminal		Condition		Continuity
10	7	Changeover switch	Left	Existed
			Other than above	Not existed
11			Right	Existed
			Other than above	Not existed

Is the inspection result normal?

- YES >> INSPECTION END
- NO >> Replace door mirror remote control switch. Refer to [MIR-19, "DOOR MIRROR ASSEMBLY : Removal and Installation"](#).

ADP

# POWER SEAT SWITCH GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

## POWER SEAT SWITCH GROUND CIRCUIT

### Diagnosis Procedure

INFOID:000000007566086

#### 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 seat switch		Ground	Continuity
Connector	Terminal		Existed
B459	35		Existed

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-40, "Intermittent Incident"](#).
- NO >> Repair or replace harness or connector.



# TILT & TELESCOPIC SWITCH GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

## TILT & TELESCOPIC SWITCH GROUND CIRCUIT

### Diagnosis Procedure

INFOID:000000007566087

#### 1. CHECK TILT & TELESCOPIC SWITCH GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect tilt & telescopic switch connector.
3. Check continuity between tilt & telescopic switch harness connector and ground.

Tilt & telescopic switch		Ground	Continuity
Connector	Terminal		Existed
M102	1		

#### Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-40, "Intermittent Incident"](#).
- NO >> Repair or replace harness or connector.

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# SLIDING SENSOR

< DTC/CIRCUIT DIAGNOSIS >

## SLIDING SENSOR

### Component Function Check

INFOID:000000007566088

#### 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		Valve
SLIDE PULSE	Seat sliding	Operate (forward)	Change (increase)*
		Operate (backward)	Change (decrease)*
		Release	No change*

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

Is the indication normal?

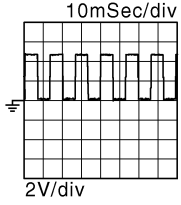
- YES >> INSPECTION END  
 NO >> Refer to [ADP-74, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000007566089

#### 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.

(+)		(-)	Condition	Signal (Reference value)
Driver seat control unit				
Connector	Terminals			
B452	19	Ground	Seat sliding	 <p>10mSec/div 2V/div JMJA0119ZZ</p>
			Other than above	

Is the inspection result normal?

- YES >> Replace driver seat control unit. Refer to [ADP-121, "Removal and Installation"](#).  
 NO >> GO TO 2.

#### 2.CHECK SLIDING SENSOR CIRCUIT

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

Driver seat control unit		Sliding motor		Continuity
Connector	Terminal	Connector	Terminal	
B452	19	B461	19	Existed

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

# SLIDING SENSOR

## < DTC/CIRCUIT DIAGNOSIS >

Driver seat control unit		Ground	Continuity
Connector	Terminal		
B452	19		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) (Approx.)
Sliding motor			
Connector	Terminals		
B461	33	Ground	12

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 control unit		Sliding motor		Continuity
Connector	Terminal	Connector	Terminal	
B452	33	B461	33	Existed

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

Driver seat control unit		Ground	Continuity
Connector	Terminal		
B452	33		Not existed

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to [ADP-121, "Removal and Installation"](#).

NO >> Repair or replace harness or connector.

### 5. CHECK SLIDING SENSOR GROUND

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

Sliding motor		Ground	Continuity
Connector	Terminal		
B461	45		Existed

Is the inspection result normal?

YES >> Replace seat cushion frame assembly.

NO >> Repair or replace harness or connector.

# RECLINING SENSOR

< DTC/CIRCUIT DIAGNOSIS >

## RECLINING SENSOR

### Component Function Check

INFOID:000000007566090

#### 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
RECLN PULSE	Seat reclining	Operate (forward)	Change (increase)*
		Operate (backward)	Change (decrease)*
		Release	No change*

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

Is the indication normal?

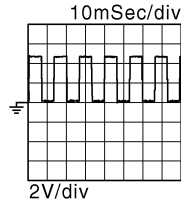
- YES >> INSPECTION END  
 NO >> Refer to [ADP-76, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000007566091

#### 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.

(+)		(-)	Condition	Signal (Reference value)
Driver seat control unit				
Connector	Terminals			
B452	20	Ground	Seat reclining	 2V/div 10mSec/div JMJA0119ZZ
			Operate	
			Other than above	0 or 5

Is the inspection result normal?

- YES >> Replace driver seat control unit. Refer to [ADP-121, "Removal and Installation"](#).  
 NO >> GO TO 2.

#### 2.CHECK RECLINING SENSOR CIRCUIT

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

Driver seat control unit		Reclining motor		Continuity
Connector	Terminal	Connector	Terminal	
B452	20	B454	20	Existed

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

# RECLINING SENSOR

## < DTC/CIRCUIT DIAGNOSIS >

Driver seat control unit		Ground	Continuity
Connector	Terminal		
B452	20		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) (Approx.)
Reclining motor			
Connector	Terminals		
B454	33	Ground	12

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

Driver seat control unit		Reclining motor		Continuity
Connector	Terminal	Connector	Terminal	
B452	33	B454	33	Existed

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

Driver seat control unit		Ground	Continuity
Connector	Terminal		
B452	33		Not existed

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to [ADP-121, "Removal and Installation"](#).

NO >> Repair or replace harness or connector.

### 5. CHECK RECLINING SENSOR GROUND

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

Reclining motor		Ground	Continuity
Connector	Terminal		
B454	46		Existed

Is the inspection result normal?

YES >> Replace seat cushion frame assembly.

NO >> Repair or replace harness or connector.

# LIFTING SENSOR (FRONT)

< DTC/CIRCUIT DIAGNOSIS >

## LIFTING SENSOR (FRONT)

### Component Function Check

INFOID:000000007566092

#### 1.CHECK FUNCTION

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

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

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

Is the indication normal?

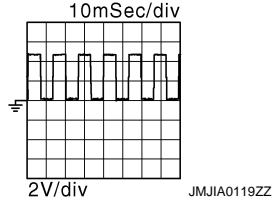
- YES >> INSPECTION END  
 NO >> Refer to [ADP-78, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000007566093

#### 1.CHECK LIFTING SENSOR (FRONT) SIGNAL

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

(+)		(-)	Condition	Voltage (V) (Approx.)
Driver seat control unit				
Connector	Terminals			
B452	22	Ground	Seat Lifting (front)	
			Other than above	

Is the inspection result normal?

- YES >> Replace driver seat control unit. Refer to [ADP-121, "Removal and Installation"](#).  
 NO >> GO TO 2.

#### 2.CHECK LIFTING SENSOR (FRONT) CIRCUIT

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

Driver seat control unit		Lifting motor (front)		Continuity
Connector	Terminal	Connector	Terminal	
B452	22	B455	22	Existed

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

# LIFTING SENSOR (FRONT)

## < DTC/CIRCUIT DIAGNOSIS >

Driver seat control unit		Ground	Continuity
Connector	Terminal		
B452	22		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.

(+)		(-)	Voltage (V) (Approx.)
Lifting motor (front)			
Connector	Terminals		
B455	33	Ground	12

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

Driver seat control unit		Lifting motor (front)		Continuity
Connector	Terminal	Connector	Terminal	
B452	33	B455	33	Existed

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

Driver seat control unit		Ground	Continuity
Connector	Terminal		
B452	33		Not existed

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to [ADP-121, "Removal and Installation"](#).

NO >> Repair or replace harness or connector.

### 5.CHECK LIFTING SENSOR (FRONT) GROUND

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

Lifting motor (front)		Ground	Continuity
Connector	Terminal		
B455	48		Existed

Is the inspection result normal?

YES >> Replace seat cushion frame assembly.

NO >> Repair or replace harness or connector.

# LIFTING SENSOR (REAR)

< DTC/CIRCUIT DIAGNOSIS >

## LIFTING SENSOR (REAR)

### Component Function Check

INFOID:000000007566094

#### 1.CHECK FUNCTION

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

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

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

Is the indication normal?

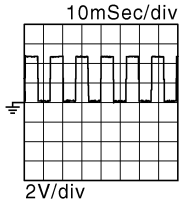
- YES >> INSPECTION END  
 NO >> Refer to [ADP-80, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000007566095

#### 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.

(+)		(-)	Condition	Voltage (V) (Approx.)
Connector	Terminals			
B452	21	Ground	Seat Lifting (rear)	 10mSec/div 2V/div JMJA0119ZZ
			Operate	
			Other than above	0 or 5

Is the inspection result normal?

- YES >> Replace driver seat control unit. Refer to [ADP-121, "Removal and Installation"](#).  
 NO >> GO TO 2.

#### 2.CHECK LIFTING SENSOR (REAR) CIRCUIT

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

Driver seat control unit		Lifting motor (rear)		Continuity
Connector	Terminal	Connector	Terminal	
B452	21	B456	21	Existed

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



# LIFTING SENSOR (REAR)

## < DTC/CIRCUIT DIAGNOSIS >

Driver seat control unit		Ground	Continuity
Connector	Terminal		
B452	21		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

### 3. CHECK LIFTING SENSOR (REAR) POWER SUPPLY

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

(+)		(-)	Voltage (V) (Approx.)
Lifting motor (rear)			
Connector	Terminals		
B456	33	Ground	12

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

Driver seat control unit		Lifting motor (rear)		Continuity
Connector	Terminal	Connector	Terminal	
B452	33	B456	33	Existed

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

Driver seat control unit		Ground	Continuity
Connector	Terminal		
B452	33		Not existed

Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to [ADP-121, "Removal and Installation"](#).

NO >> Repair or replace harness or connector.

### 5. CHECK LIFTING SENSOR (REAR) GROUND

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

Lifting motor (rear)		Ground	Continuity
Connector	Terminal		
B456	47		Existed

Is the inspection result normal?

YES >> Replace seat cushion frame assembly.

NO >> Repair or replace harness or connector.

# TILT SENSOR

< DTC/CIRCUIT DIAGNOSIS >

## TILT SENSOR

### Component Function Check

INFOID:000000007566096

#### 1.CHECK FUNCTION

1. Select "TILT PULSE" in "Data monitor" mode with CONSULT.
2. Check tilt sensor signal under the following conditions.

Monitor item	Condition		Value
TILT PULSE	Steering column	Operate (up)	Change (increase)*
		Operate (down)	Change (decrease)*
		Release	No change*

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

Is the indication normal?

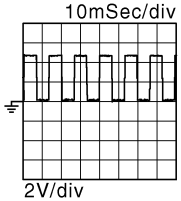
- YES >> INSPECTION END  
 NO >> Refer to [ADP-82, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000007566097

#### 1.CHECK TILT SENSOR SIGNAL

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

(+)		(-)	Condition	Voltage (V) (Approx.)
Driver seat control unit				
Connector	Terminals			
B452	30	Ground	Steering column	
			Other than above	

Is the inspection result normal?

- YES >> Replace driver seat control unit. Refer to [ADP-121, "Removal and Installation"](#).  
 NO >> GO TO 2.

#### 2.CHECK TILT SENSOR CIRCUIT

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

Driver seat control unit		Tilt motor		Continuity
Connector	Terminal	Connector	Terminal	
B452	30	M116	5	Existed

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

Driver seat control unit		Ground	Continuity
Connector	Terminal		
B452	30		Not existed

# TILT SENSOR

## < DTC/CIRCUIT DIAGNOSIS >

### Is the inspection result normal?

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

### 3.CHECK TILT SENSOR POWER SUPPLY

- Turn ignition switch ON.
- Check voltage between tilt motor harness connector and ground.

(+)		(-)	Voltage (V) (Approx.)
Tilt motor			
Connector	Terminals		
M116	4	Ground	12

### Is the inspection result normal?

- YES >> GO TO 5.  
NO >> GO TO 4.

### 4.CHECK TILT SENSOR POWER SUPPLY CIRCUIT

- Turn ignition switch OFF.
- Disconnect automatic drive positioner control unit connector.
- Check continuity between automatic drive positioner control unit harness connector and tilt motor harness connector.

Automatic drive positioner control unit		Tilt motor		Continuity
Connector	Terminal	Connector	Terminal	
M104	27	M116	4	Existed

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

Automatic drive positioner control unit		Ground	Continuity
Connector	Terminal		
M104	27		Not existed

### Is the inspection result normal?

- YES >> Replace automatic drive positioner control unit. Refer to [ADP-122, "Removal and Installation"](#).  
NO >> Repair or replace harness or connector.

### 5.CHECK TILT SENSOR GROUND CIRCUIT

- Turn ignition switch OFF.
- Disconnect automatic drive positioner control unit connector.
- Check continuity between automatic drive positioner control unit harness connector and tilt motor harness connector.

Automatic drive positioner control unit		Tilt motor		Continuity
Connector	Terminal	Connector	Terminal	
M75	20	M116	6	Existed

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

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

### Is the inspection result normal?

- YES >> Replace tilt motor.  
NO >> Repair or replace harness or connector.

# TELESCOPIC SENSOR

< DTC/CIRCUIT DIAGNOSIS >

## TELESCOPIC SENSOR

### Component Function Check

INFOID:000000007566098

#### 1.CHECK FUNCTION

1. Select "TELESCO PULSE" in "Data monitor" mode with CONSULT.
2. Check telescopic sensor signal under the following conditions.

Monitor item	Condition		Valve
TELESCO PULSE	Steering column	Operate (forward)	Change (increase)*
		Operate (backward)	Change (decrease)*
		Release	No change*

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

Is the indication normal?

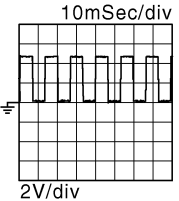
- YES >> INSPECTION END  
 NO >> Refer to [ADP-84, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000007566099

#### 1.CHECK TELESCOPIC SENSOR SIGNAL

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

(+)		(-)	Condition	Voltage (V) (Approx.)
Driver seat control unit				
Connector	Terminals			
B452	31	Ground	Steering column	 10mSec/div 2V/div JMJA0119ZZ
			Other than above	0 or 5

Is the inspection result normal?

- YES >> Replace driver seat control unit. Refer to [ADP-121, "Removal and Installation"](#).  
 NO >> GO TO 2.

#### 2.CHECK TELESCOPIC SENSOR CIRCUIT

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

Driver seat control unit		Telescopic motor		Continuity
Connector	Terminal	Connector	Terminal	
B452	31	M117	5	Existed

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

# TELESCOPIC SENSOR

## < DTC/CIRCUIT DIAGNOSIS >

Driver seat control unit		Ground	Continuity
Connector	Terminal		
B452	31		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

### 3.CHECK TELESCOPIC SENSOR POWER SUPPLY

1. Turn ignition switch ON.
2. Check voltage between telescopic motor harness connector and ground.

(+)		(-)	Voltage (V) (Approx.)
Telescopic motor			
Connector	Terminals		
M117	4	Ground	12

Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

### 4.CHECK TELESCOPIC SENSOR POWER SUPPLY 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 telescopic motor harness connector.

Automatic drive positioner control unit		Telescopic motor		Continuity
Connector	Terminal	Connector	Terminal	
M104	27	M117	4	Existed

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

Automatic drive positioner control unit		Ground	Continuity
Connector	Terminal		
M104	27		Not existed

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to [ADP-122. "Removal and Installation"](#).

NO >> Repair or replace harness or connector.

### 5.CHECK TELESCOPIC 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 telescopic motor harness connector.

Automatic drive positioner control unit		Telescopic motor		Continuity
Connector	Terminal	Connector	Terminal	
M75	20	M117	6	Existed

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

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

Is the inspection result normal?

## TELESCOPIC SENSOR

### < DTC/CIRCUIT DIAGNOSIS >

---

- YES >> Replace telescopic motor.
- NO >> Repair or replace harness or connector.

# MIRROR SENSOR

< DTC/CIRCUIT DIAGNOSIS >

## MIRROR SENSOR

### DRIVER SIDE

#### DRIVER SIDE : Component Function Check

INFOID:000000007566100

### 1. CHECK FUNCTION

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

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

Is the indication normal?

YES >> INSPECTION END

NO >> Refer to [ADP-87, "DRIVER SIDE : Diagnosis Procedure"](#).

#### DRIVER SIDE : Diagnosis Procedure

INFOID:000000007566101

### 1. CHECK DOOR MIRROR (DRIVER SIDE) SENSOR POWER SUPPLY

1. Turn ignition switch OFF.
2. Disconnect door mirror (driver side) connector.
3. Turn ignition switch ON.
4. Check voltage between door mirror (driver side) harness connector and ground.

(+)		(-)	Voltage (V) (Approx.)
Door mirror (driver side)			
Connector	Terminals		
D3	23	Ground	5

ADP

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

### 2. CHECK DOOR MIRROR (DRIVER SIDE) SENSOR POWER SUPPLY 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 positioner control unit		Door mirror (driver side)		Continuity
Connector	Terminal	Connector	Terminal	
M75	21	D3	23	Existed

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

Automatic drive positioner control unit		Ground	Continuity
Connector	Terminal		
M75	21		Not existed

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to [ADP-122, "Removal and Installation"](#).

NO >> Repair or replace harness or connector.

# MIRROR SENSOR

## < DTC/CIRCUIT DIAGNOSIS >

### 3. CHECK DOOR MIRROR (DRIVER SIDE) SENSOR GROUND

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 positioner control unit		Door mirror (driver side)		Continuity
Connector	Terminal	Connector	Terminal	
M75	20	D3	24	Existed

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

Automatic drive positioner control unit		Ground	Continuity
Connector	Terminal		
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 positioner control unit		Door mirror (driver side)		Continuity
Connector	Terminal	Connector	Terminal	
M75	6	D3	21	Existed
	18		22	

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

Automatic drive positioner control unit		Ground	Continuity
Connector	Terminal		
M75	6		Not existed
	18		

Is the inspection result normal?

- YES >> Replace door mirror (driver side).  
 NO >> Repair or replace harness or connector.

## PASSENGER SIDE

### PASSENGER SIDE : Component Function Check

INFOID:000000007566102

### 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 (passenger side)	Change between 3.4 [V] (close to peak) 0.6 [V] (close to valley)
MIR/SEN RH R-L		Change between 3.4 [V] (close to left edge) 0.6 [V] (close to right edge)

Is the indication normal?

- YES >> INSPECTION END



# MIRROR SENSOR

## < DTC/CIRCUIT DIAGNOSIS >

NO >> Refer to [ADP-89, "PASSENGER SIDE : Diagnosis Procedure"](#).

### PASSENGER SIDE : Diagnosis Procedure

INFOID:000000007566103

#### 1. CHECK DOOR MIRROR SENSOR (PASSENGER SIDE) POWER SUPPLY

1. Turn ignition switch OFF.
2. Disconnect door mirror (passenger side) connector.
3. Turn ignition switch ON.
4. Check voltage between door mirror (passenger side) harness connector and ground.

(+)		(-)	Voltage (V) (Approx.)
Door mirror (passenger side)			
Connector	Terminals		
D43	23	Ground	5

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

#### 2. CHECK DOOR MIRROR (PASSENGER SIDE) SENSOR POWER SUPPLY 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 (passenger side) harness connector.

Automatic drive positioner control unit		Door mirror (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	
M75	21	D43	23	Existed

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

Automatic drive positioner control unit		Ground	Continuity
Connector	Terminal		
M75	21		Not existed

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to [ADP-122, "Removal and Installation"](#).

NO >> Repair or replace harness or connector.

#### 3. CHECK DOOR MIRROR (PASSENGER SIDE) SENSOR GROUND

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 (passenger side) connector.

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

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

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness or connector.

# MIRROR SENSOR

< DTC/CIRCUIT DIAGNOSIS >

## 4. CHECK DOOR MIRROR (PASSENGER SIDE) SENSOR HARNESS CONTINUITY

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

Automatic drive positioner control unit		Door mirror (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	
M75	5	D43	21	Existed
	17		22	

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

Automatic drive positioner control unit		Ground	Continuity
Connector	Terminal		
M75	5		Not existed
	17		

Is the inspection result normal?

- YES >> Replace door mirror (passenger side).  
 NO >> Repair or replace harness or connector.

# SLIDING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

## SLIDING MOTOR

### Component Function Check

INFOID:000000007566104

#### 1.CHECK FUNCTION

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

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

Is the operation of relevant parts normal?

- YES >> INSPECTION END  
 NO >> Refer to [ADP-91, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000007566105

#### 1.CHECK SLIDING MOTOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect sliding motor connector.
3. Turn the ignition switch ON.
4. Perform "Active test" ("SEAT SLIDE") with CONSULT.
5. Check voltage between sliding motor harness connector and ground.

(+)		(-)	Condition	Voltage (V) (Approx.)	
Sliding motor					
Connector	Terminals				
B461	50	Ground	SEAT SLIDE	OFF	0
				Forward	0
				Backward	12
	51			OFF	0
				Forward	12
				Backward	0

Is the inspection result normal?

- YES >> Replace seat cushion frame assembly.  
 NO >> GO TO 2.

#### 2.CHECK SLIDING MOTOR 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 control unit		Sliding motor		Continuity
Connector	Terminal	Connector	Terminal	
B451	3	B461	50	Existed
	4		51	

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

## SLIDING MOTOR

### < DTC/CIRCUIT DIAGNOSIS >

Driver seat control unit		Ground	Continuity
Connector	Terminal		
B451	3		
	4		

#### Is the inspection result normal?

- YES >> Replace driver seat control unit. Refer to [ADP-121. "Removal and Installation"](#).  
NO >> Repair or replace harness or connector.

# RECLINING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

## RECLINING MOTOR

### Component Function Check

INFOID:000000007566106

#### 1. CHECK FUNCTION

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

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

Is the operation of relevant parts normal?

- YES >> INSPECTION END  
 NO >> Refer to [ADP-93. "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000007566107

#### 1. CHECK RECLINING MOTOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect reclining motor connector.
3. Turn the ignition switch ON.
4. Perform "Active test" ("SEAT RECLINING") with CONSULT.
5. Check voltage between reclining motor harness connector and ground.

(+)		(-)	Condition	Voltage (V) (Approx.)
Reclining motor				
Connector	Terminals			
B454	52	Ground	SEAT RECLINING OFF	0
			SEAT RECLINING Forward	0
			SEAT RECLINING Backward	12
	53		SEAT RECLINING OFF	0
			SEAT RECLINING Forward	12
			SEAT RECLINING Backward	0

Is the inspection result normal?

- YES >> Replace seat cushion frame assembly.  
 NO >> GO TO 2.

#### 2. CHECK RECLINING MOTOR CIRCUIT 1

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

Driver seat control unit		Reclining motor		Continuity
Connector	Terminal	Connector	Terminal	
B451	5	B454	52	Existed

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

Driver seat control unit		Ground	Continuity
Connector	Terminal		
B451	5		Not existed

# RECLINING MOTOR

## < DTC/CIRCUIT DIAGNOSIS >

### Is the inspection result normal?

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

### 3.CHECK RECLINING MOTOR CIRCUIT 2

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

Driver seat control unit		Reclining motor		Continuity
Connector	Terminal	Connector	Terminal	
B451	6	B454	53	Existed

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

Driver seat control unit		Ground	Continuity
Connector	Terminal		
B451	6		Not existed

### Is the inspection result normal?

- YES >> Replace driver seat control unit. Refer to [ADP-121, "Removal and Installation"](#).  
 NO >> GO TO 4.

### 4.CHECK RECLINING MOTOR RELAY CIRCUIT 1

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

Driver seat control unit		Reclining motor relay		Continuity
Connector	Terminal	Connector	Terminal	
B451	6	B442	2	Existed
			3	

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

Driver seat control unit		Ground	Continuity
Connector	Terminal		
B451	6		Not existed

### Is the inspection result normal?

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

### 5.CHECK RECLINING MOTOR RELAY CIRCUIT 2

1. Check continuity between reclining motor relay harness connector and reclining motor harness connector.

Reclining motor relay		Reclining motor		Continuity
Connector	Terminal	Connector	Terminal	
B442	4	B454	53	Existed

2. Check continuity between reclining motor relay harness connector and ground.

Reclining motor relay		Ground	Continuity
Connector	Terminal		
B442	4		Not existed

### Is the inspection result normal?

- YES >> GO TO 6.  
 NO >> Repair or replace harness or connector.

# RECLINING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

## 6.CHECK RECLINING MOTOR RELAY

Refer to [ADP-95. "Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-40. "Intermittent Incident"](#).  
NO >> Replace seat cushion frame assembly.

## Component Inspection

INFOID:000000007566108

## 1.CHECK RECLINING MOTOR RELAY

1. Turn ignition switch OFF.
2. Remove reclining motor relay.
3. Check the continuity between reclining motor relay terminals under the following conditions.

Reclining motor relay		Condition	Continuity
Terminal			
3	4	No current supply	Existed
		12 V direct current supply between terminals 1 and 2.	Not existed

Is the inspection result normal?

- YES >> INSPECTION END  
NO >> Replace seat cushion frame assembly.

A  
B  
C  
D  
E  
F  
G  
H  
I  
K  
L  
M  
N  
O  
P

ADP

# LIFTING MOTOR (FRONT)

< DTC/CIRCUIT DIAGNOSIS >

## LIFTING MOTOR (FRONT)

### Component Function Check

INFOID:000000007566109

#### 1.CHECK FUNCTION

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

Test item		Description	
SEAT LIFTER FR	OFF	Seat lifting (front)	Stop
	UP		Up
	DWN		Down

Is the operation of relevant parts normal?

- YES >> INSPECTION END  
 NO >> Refer to [ADP-96. "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000007566110

#### 1.CHECK LIFTING MOTOR (FRONT) POWER SUPPLY

1. Turn ignition switch OFF.
2. Disconnect lifting motor (front) connector.
3. Turn the ignition switch ON.
4. Perform "Active test" ("SEAT LIFTER FR") with CONSULT.
5. Check voltage between lifting motor (front) harness connector and ground.

(+)		(-)	Condition	Voltage (V) (Approx.)	
Lifting motor (front)					
Connector	Terminals				
B455	56	Ground	SEAT LIFTER FR	OFF	0
				Up	0
				Down	12
	57			OFF	0
				Up	12
				Down	0

Is the inspection result normal?

- YES >> Replace seat cushion frame assembly.  
 NO >> GO TO 2.

#### 2.CHECK LIFTING MOTOR (FRONT) CIRCUIT

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

Driver seat control unit		Lifting motor (front)		Continuity
Connector	Terminal	Connector	Terminal	
B451	9	B455	56	Existed
	10		57	

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



# LIFTING MOTOR (FRONT)

## < DTC/CIRCUIT DIAGNOSIS >

Driver seat control unit		Ground	Continuity
Connector	Terminal		
B451	9		
	10		Not existed

### Is the inspection result normal?

- YES >> Replace driver seat control unit. Refer to [ADP-121. "Removal and Installation"](#).
- NO >> Repair or replace harness or connector.

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# LIFTING MOTOR (REAR)

< DTC/CIRCUIT DIAGNOSIS >

## LIFTING MOTOR (REAR)

### Component Function Check

INFOID:000000007566111

#### 1.CHECK FUNCTION

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

Test item		Description	
SEAT LIFTER RR	OFF	Seat lifting (rear)	Stop
	UP		Up
	DWN		Down

Is the operation of relevant parts normal?

YES >> INSPECTION END

NO >> Refer to [ADP-98. "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000007566112

#### 1.CHECK LIFTING MOTOR (REAR) POWER SUPPLY

1. Turn ignition switch OFF.
2. Disconnect lifting motor (rear) connector.
3. Turn the ignition switch ON.
4. Perform "Active test" ("SEAT LIFTER RR") with CONSULT.
5. Check voltage between lifting motor (rear) harness connector and ground.

(+)		(-)	Condition	Voltage (V) (Approx.)	
Lifting motor (rear)					
Connector	Terminals				
B456	54	Ground	SEAT LIFTER RR	OFF	0
				Up	0
				Down	12
	55			OFF	0
				Up	12
				Down	0

Is the inspection result normal?

YES >> Replace seat cushion frame assembly.

NO >> GO TO 2.

#### 2.CHECK LIFTING MOTOR (REAR) CIRCUIT

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

Driver seat control unit		Lifting motor (rear)		Continuity
Connector	Terminal	Connector	Terminal	
B451	7	B456	54	Existed
	8		55	

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

## LIFTING MOTOR (REAR)

### < DTC/CIRCUIT DIAGNOSIS >

Driver seat control unit		Ground	Continuity
Connector	Terminal		
B451	7		
	8		Not existed

**Is the inspection result normal?**

- YES >> Replace driver seat control unit. Refer to [ADP-121. "Removal and Installation"](#).
- NO >> Repair or replace harness or connector.

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# TILT MOTOR

< DTC/CIRCUIT DIAGNOSIS >

## TILT MOTOR

### Component Function Check

INFOID:000000007566114

#### 1.CHECK FUNCTION

1. Select "TILT MOTOR" in "Active test" mode with CONSULT.
2. Check the tilt motor operation.

Test item		Description	
TILT MOTOR	OFF	Steering tilt	Stop
	UP		Up
	DWN		Down

Is the operation of relevant parts normal?

YES >> INSPECTION END

NO >> Refer to [ADP-100, "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000007566114

#### 1.CHECK TILT MOTOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect tilt motor connector.
3. Turn the ignition switch ON.
4. Perform "Active test" ("TILT MOTOR") with CONSULT.
5. Check voltage between tilt motor harness connector and ground.

(+)		(-)	Condition	Voltage (V) (Approx.)	
Tilt motor					
Connector	Terminals				
M116	1	Ground	TILT MOTOR	OFF	0
				Up	0
				Down	12
	2			OFF	0
				Up	12
				Down	0

Is the inspection result normal?

YES >> Replace tilt motor.

NO >> GO TO 2.

#### 2.CHECK TILT MOTOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect automatic drive positioner control unit.
3. Check continuity between automatic drive positioner control unit harness connector and tilt motor harness connector.

Automatic drive positioner control unit		Tilt motor		Continuity
Connector	Terminal	Connector	Terminal	
M104	28	M116	1	Existed
	29		2	

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

# TILT MOTOR

## < DTC/CIRCUIT DIAGNOSIS >

Automatic drive positioner control unit		Ground	Continuity
Connector	Terminal		
M104	28		Not existed
	29		

### Is the inspection result normal?

- YES >> Replace automatic drive positioner control unit. Refer to [ADP-122. "Removal and Installation"](#).
- NO >> Repair or replace harness or connector.

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# TELESCOPIC MOTOR

< DTC/CIRCUIT DIAGNOSIS >

## TELESCOPIC MOTOR

### Component Function Check

INFOID:000000007566115

#### 1.CHECK FUNCTION

1. Select "TELESCO MOTOR" in "Active test" mode with CONSULT.
2. Check the telescopic motor operation.

Test item		Description	
TELESCO MOTOR	OFF	Steering telescopic	Stop
	FR		Forward
	RR		Backward

Is the operation of relevant parts normal?

- YES >> INSPECTION END  
 NO >> Refer to [ADP-102. "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000007566116

#### 1.CHECK TELESCOPIC MOTOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect telescopic motor connector.
3. Turn the ignition switch ON.
4. Perform "Active test" ("TELESCO MOTOR") with CONSULT.
5. Check voltage between telescopic motor harness connector and ground.

(+)		(-)	Condition	Voltage (V) (Approx.)	
Telescopic motor					
Connector	Terminals				
M117	1	Ground	TELESCOPIC MOTOR	OFF	0
			Forward	0	
			Backward	12	
	2		OFF	0	
			Forward	12	
			Backward	0	

Is the inspection result normal?

- YES >> Replace telescopic motor.  
 NO >> GO TO 2.

#### 2.CHECK TELESCOPIC MOTOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect automatic drive positioner control unit.
3. Check continuity between automatic drive positioner control unit harness connector and telescopic motor harness connector.

Automatic drive positioner control unit		Telescopic motor		Continuity
Connector	Terminal	Connector	Terminal	
M75	26	M117	1	Existed
	29		2	

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

# TELESCOPIC MOTOR

## < DTC/CIRCUIT DIAGNOSIS >

Automatic drive positioner control unit		Ground	Continuity
Connector	Terminal		
M75	26		Not existed
	29		

### Is the inspection result normal?

- YES >> Replace automatic drive positioner control unit. Refer to [ADP-122. "Removal and Installation"](#).
- NO >> Repair or replace harness or connector.

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# DOOR MIRROR MOTOR

< DTC/CIRCUIT DIAGNOSIS >

## DOOR MIRROR MOTOR

### Component Function Check

INFOID:000000007566117

#### 1. CHECK DOOR MIRROR MOTOR FUNCTION

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

Refer to [ADP-19. "CONSULT Function"](#).

Is the inspection result normal?

YES >> INSPECTION END

NO >> Refer to [ADP-104. "Diagnosis Procedure"](#).

#### Diagnosis Procedure

INFOID:000000007566118

#### 1. CHECK DOOR MIRROR MOTOR INPUT SIGNAL

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

[Driver side]

(+) Door mirror		(-)	Condition	Voltage (V) (Approx.)	
Connector	Terminals				
D3	10	Ground	Door mirror remote control switch	Down/right	12
				Other than above	0
	11			Left	12
				Other than above	0
	12			Up	12
				Other than above	0

[Passenger side]

(+) Door mirror		(-)	Condition	Voltage (V) (Approx.)	
Connector	Terminals				
D43	10	Ground	Door mirror remote control switch	Down/right	12
				Other than above	0
	11			Left	12
				Other than above	0
	12			Up	12
				Other than above	0

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

#### 2. CHECK DOOR MIRROR MOTOR CIRCUIT

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



# DOOR MIRROR MOTOR

## < DTC/CIRCUIT DIAGNOSIS >

[Driver side]				
Automatic drive positioner control unit		Door mirror		Continuity
Connector	Terminal	Connector	Terminal	
M75	12	D3	10	Existed
	23		12	
	24		11	

[Passenger side]				
Automatic drive positioner control unit		Door mirror		Continuity
Connector	Terminal	Connector	Terminal	
M75	10	D43	12	Existed
	11		11	
	22		10	

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

[Driver side]				
Automatic drive positioner control unit		Ground	Continuity	
Connector	Terminal			
M75	12	Ground	Not existed	
	23			
	24			

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

Is the inspection result normal?

- YES >> Replace automatic drive positioner control unit. Refer to [ADP-122. "Removal and Installation"](#).
- NO >> Repair or replace harness or connector.

### 3.CHECK DOOR MIRROR MOTOR

Refer to [ADP-105. "Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-40. "Intermittent Incident"](#).
- NO >> Replace door mirror.

### Component Inspection

INFOID:000000007566119

#### 1.CHECK DOOR MIRROR MOTOR 1

Check that door mirror motor does not trap foreign objects and does not have any damage.  
Refer to [MIR-19. "Exploded View"](#).

Is the inspection result normal?

- YES >> GO TO 2.
- NO >> Replace door mirror.

#### 2.CHECK DOOR MIRROR MOTOR 2

1. Turn ignition switch OFF.
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 >

Terminal		Operational direction
(+)	(-)	
10	11	Right
11	10	Left
12	10	Up
10	12	Down

Is the inspection result normal?

YES >> INSPECTION END  
NO >> Replace door mirror.

# SEAT MEMORY INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

## SEAT MEMORY INDICATOR

### Component Function Check

INFOID:000000007566120

#### 1.CHECK FUNCTION

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

Test item		Description	
MEMORY SW INDCTR	OFF	Memory switch indicator	OFF
	ON-1		Indicator 1: ON
	ON-2		Indicator 2: ON

Is the operation of relevant parts normal?

- YES >> INSPECTION END  
NO >> Refer to [ADP-107. "Diagnosis Procedure"](#).

### Diagnosis Procedure

INFOID:000000007566121

#### 1.CHECK SEAT MEMORY INDICATOR OPERATION

Check seat memory 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 (10A)

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Is the inspection result normal?

- YES >> GO TO 3.  
NO >> Replace the blown fuse after repairing affected circuit.

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

Check voltage between seat memory switch harness connector and ground.

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

Is the inspection result normal?

- YES >> Replace seat memory switch. Refer to [ADP-123. "Removal and Installation"](#).  
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 INDICATOR CIRCUIT

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

## SEAT MEMORY INDICATOR

< DTC/CIRCUIT DIAGNOSIS >

Driver seat control unit		Seat memory switch		Continuity
Connector	Terminal	Connector	Terminal	
B452	25	D13	6	Existed
	26		7	

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

Driver seat control unit		Ground	Continuity
Connector	Terminal		
B452	25		Not existed
	26		

Is the inspection result normal?

- YES >> Replace driver seat control unit. Refer to [ADP-121. "Removal and Installation"](#).  
 NO >> Repair or replace harness or connector.

# MANUAL FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

## SYMPTOM DIAGNOSIS

MANUAL FUNCTION DOES NOT OPERATE

ALL COMPONENT

ALL COMPONENT : Diagnosis Procedure

INFOID:000000007566122

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

Check driver seat control unit power supply and ground circuit.

Refer to [ADP-50. "DRIVER SEAT CONTROL UNIT : Diagnosis Procedure"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunction parts.

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

Check automatic drive positioner control unit power supply and ground circuit.

Refer to [ADP-50. "AUTOMATIC DRIVE POSITIONER CONTROL UNIT : Diagnosis Procedure"](#).

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 [GI-40. "Intermittent Incident"](#).

NO >> GO TO 1.

POWER SEAT

POWER SEAT : Diagnosis Procedure

INFOID:000000007566123

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### 1.CHECK POWER SEAT SWITCH GROUND CIRCUIT

Check power seat switch ground circuit.

Refer to [ADP-72. "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 [GI-40. "Intermittent Incident"](#).

NO >> GO TO 1.

TILT & TELESCOPIC

TILT & TELESCOPIC : Diagnosis Procedure

INFOID:000000007566124

### 1.CHECK TILT & TELESCOPIC SWITCH GROUND CIRCUIT

Check tilt & telescopic switch ground circuit.

Refer to [ADP-73. "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.

# MANUAL FUNCTION DOES NOT OPERATE

## < SYMPTOM DIAGNOSIS >

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### Is the result normal?

- YES >> Check intermittent incident. Refer to [GI-40, "Intermittent Incident"](#).  
NO >> GO TO 1.

## SEAT SLIDING

### SEAT SLIDING : Diagnosis Procedure

INFOID:000000007566125

#### 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

---

Check sliding switch.

Refer to [ADP-52, "Component Function Check"](#).

### Is the inspection result normal?

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

#### 3.CHECK SLIDING MOTOR

---

Check sliding motor.

Refer to [ADP-91, "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-40, "Intermittent Incident"](#).  
NO >> GO TO 1.

## SEAT RECLINING

### SEAT RECLINING : Diagnosis Procedure

INFOID:000000007566126

#### 1.CHECK RECLINING 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 RECLINING SWITCH

---

Check reclining switch.

Refer to [ADP-55, "Component Function Check"](#).

### Is the inspection result normal?

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

#### 3.CHECK RECLINING MOTOR

---

Check reclining motor.

Refer to [ADP-93, "Component Function Check"](#).

# MANUAL FUNCTION DOES NOT OPERATE

## < SYMPTOM DIAGNOSIS >

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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-40. "Intermittent Incident"](#).  
NO >> GO TO 1.

## SEAT LIFTING (FRONT)

### SEAT LIFTING (FRONT) : Diagnosis Procedure

INFOID:000000007566127

#### 1.CHECK LIFTING (FRONT) 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 (FRONT)

---

Check lifting switch (front).

Refer to [ADP-58. "Component Function Check"](#).

Is the inspection result normal?

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

#### 3.CHECK LIFTING MOTOR (FRONT)

---

Check lifting motor (front).

Refer to [ADP-96. "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-40. "Intermittent Incident"](#).  
NO >> GO TO 1.

## SEAT LIFTING (REAR)

### SEAT LIFTING (REAR) : Diagnosis Procedure

INFOID:000000007566128

#### 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-60. "Component Function Check"](#).

Is the inspection result normal?

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# MANUAL FUNCTION DOES NOT OPERATE

## < SYMPTOM DIAGNOSIS >

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

### 3.CHECK LIFTING MOTOR (REAR)

---

Check lifting motor (rear).  
Refer to [ADP-98. "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-40. "Intermittent Incident"](#).  
NO >> GO TO 1.

## STEERING TILT

### STEERING TILT : Diagnosis Procedure

INFOID:000000007566129

#### 1.CHECK STEERING TILT 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 TILT SWITCH

---

Check tilt switch.  
Refer to [ADP-62. "Component Function Check"](#).

Is the inspection result normal?

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

#### 3.CHECK TILT MOTOR

---

Check tilt motor.  
Refer to [ADP-100. "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-40. "Intermittent Incident"](#).  
NO >> GO TO 1.

## STEERING TELESCOPIC

### STEERING TELESCOPIC : Diagnosis Procedure

INFOID:000000007566130

#### 1.CHECK STEERING TELESCOPIC 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.



# MANUAL FUNCTION DOES NOT OPERATE

## < SYMPTOM DIAGNOSIS >

NO >> Repair or replace the malfunction parts.

### 2.CHECK TELESCOPIC SWITCH

Check telescopic switch.

Refer to [ADP-64, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunction parts.

### 3.CHECK TELESCOPIC MOTOR

Check telescopic motor.

Refer to [ADP-102, "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-40, "Intermittent Incident"](#).

NO >> GO TO 1.

## DOOR MIRROR

### DOOR MIRROR : Diagnosis Procedure

INFOID:000000007566131

#### 1.CHECK DOOR MIRROR 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 DOOR MIRROR REMOTE CONTROL SWITCH

Check door mirror remote control switch. Refer to the following.

- Mirror switch: Refer to [ADP-68, "MIRROR SWITCH : Component Function Check"](#).
- Changeover switch: Refer to [ADP-69, "CHANGEOVER SWITCH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunction parts.

#### 3.CHECK DOOR MIRROR MOTOR

Check door mirror motor.

Refer to [ADP-104, "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-40, "Intermittent Incident"](#).

NO >> GO TO 1.

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# MEMORY FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

---

## MEMORY FUNCTION DOES NOT OPERATE

### ALL COMPONENT

ALL COMPONENT : Diagnosis Procedure

INFOID:000000007566132

#### 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 MEMORY STORING PROCEDURE

---

1. Perform memory storing procedure.

Refer to [ADP-41, "Work Procedure"](#).

2. Check memory function.

Refer to [ADP-15, "MEMORY FUNCTION : System Description"](#).

Is the inspection result normal?

YES >> INSPECTION END

NO >> GO TO 3.

#### 3.CHECK SEAT MEMORY SWITCH

---

Check seat memory switch.

Refer to [ADP-66, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace seat memory switch. Refer to [ADP-123, "Removal and Installation"](#).

#### 4.CONFIRM THE OPERATION

---

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-40, "Intermittent Incident"](#).

NO >> GO TO 1.

### SEAT SLIDING

SEAT SLIDING : Diagnosis Procedure

INFOID:000000007566133

#### 1.CHECK MANUAL OPERATION

---

Check manual operation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to [ADP-110, "SEAT SLIDING : Diagnosis Procedure"](#)

#### 2.CHECK SLIDING SENSOR

---

Check sliding sensor.

Refer to [ADP-74, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunction parts.

#### 3.CONFIRM THE OPERATION

---

Check the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-40, "Intermittent Incident"](#).

NO >> GO TO 1.

### SEAT RECLINING

# MEMORY FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

## SEAT RECLINING : Diagnosis Procedure

INFOID:000000007566134

### 1.CHECK MANUAL OPERATION

Check manual operation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to [ADP-110, "SEAT RECLINING : Diagnosis Procedure"](#)

### 2.CHECK RECLINING SENSOR

Check reclining sensor.

Refer to [ADP-76, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunction parts.

### 3.CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-40, "Intermittent Incident"](#).

NO >> GO TO 1.

## SEAT LIFTING (FRONT)

## SEAT LIFTING (FRONT) : Diagnosis Procedure

INFOID:000000007566135

### 1.CHECK MANUAL OPERATION

Check manual operation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to [ADP-111, "SEAT LIFTING \(FRONT\) : Diagnosis Procedure"](#)

### 2.CHECK LIFTING SENSOR (FRONT)

Check lifting sensor (front).

Refer to [ADP-78, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunction parts.

### 3.CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-40, "Intermittent Incident"](#).

NO >> GO TO 1.

## SEAT LIFTING (REAR)

## SEAT LIFTING (REAR) : Diagnosis Procedure

INFOID:000000007566136

### 1.CHECK MANUAL OPERATION

Check manual operation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to [ADP-111, "SEAT LIFTING \(REAR\) : Diagnosis Procedure"](#)

### 2.CHECK LIFTING SENSOR (REAR)

Check lifting sensor (rear).

Refer to [ADP-80, "Component Function Check"](#).

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# MEMORY FUNCTION DOES NOT OPERATE

## < SYMPTOM DIAGNOSIS >

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### Is the inspection result normal?

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

## 3.CONFIRM THE OPERATION

---

Check the operation again.

### Is the result normal?

- YES >> Check intermittent incident. Refer to [GI-40. "Intermittent Incident"](#).
- NO >> GO TO 1.

## STEERING TILT

### STEERING TILT : Diagnosis Procedure

INFOID:000000007566137

## 1.CHECK MANUAL OPERATION

---

Check manual operation.

### Is the inspection result normal?

- YES >> GO TO 2.
- NO >> Refer to [ADP-112. "STEERING TILT : Diagnosis Procedure"](#)

## 2.CHECK TILT SENSOR

---

Check steering tilt sensor.

Refer to [ADP-82. "Component Function Check"](#).

### Is the inspection result normal?

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

## 3.CONFIRM THE OPERATION

---

Check the operation again.

### Is the result normal?

- YES >> Check intermittent incident. Refer to [GI-40. "Intermittent Incident"](#).
- NO >> GO TO 1.

## STEERING TELESCOPIC

### STEERING TELESCOPIC : Diagnosis Procedure

INFOID:000000007566138

## 1.CHECK MANUAL OPERATION

---

Check manual operation.

### Is the inspection result normal?

- YES >> GO TO 2.
- NO >> Refer to [ADP-112. "STEERING TELESCOPIC : Diagnosis Procedure"](#)

## 2.CHECK TELESCOPIC SENSOR

---

Check steering telescopic sensor.

Refer to [ADP-84. "Component Function Check"](#).

### Is the inspection result normal?

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

## 3.CONFIRM THE OPERATION

---

Check the operation again.

### Is the result normal?

- YES >> Check intermittent incident. Refer to [GI-40. "Intermittent Incident"](#).
- NO >> GO TO 1.

## DOOR MIRROR

# MEMORY FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

## DOOR MIRROR : Diagnosis Procedure

INFOID:000000007566139

### 1.CHECK MANUAL OPERATION

Check manual operation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to [ADP-113, "DOOR MIRROR : Diagnosis Procedure"](#)

### 2.CHECK MIRROR SENSOR

Check mirror sensor. Refer to the following.

- Driver side: [ADP-87, "DRIVER SIDE : Component Function Check"](#).
- Passenger side: [ADP-88, "PASSENGER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunction parts.

### 3.CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-40, "Intermittent Incident"](#).

NO >> GO TO 1.

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# MEMORY INDICATE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

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## MEMORY INDICATE DOES NOT OPERATE

### Diagnosis Procedure

INFOID:000000007566140

#### 1. CHECK SEAT MEMORY INDICATOR

---

Check seat memory indicator.

Refer to [ADP-107, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunction parts.

#### 2. CONFIRM THE OPERATION

---

Confirm the operation again.

Is the result normal?

YES >> Check intermittent incident. Refer to [GI-40, "Intermittent Incident"](#).

NO >> GO TO 1.

# INTELLIGENT KEY INTERLOCK FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

## INTELLIGENT KEY INTERLOCK FUNCTION DOES NOT OPERATE

### Diagnosis Procedure

INFOID:000000007566141

#### 1. PERFORM INTELLIGENT KEY INTERLOCK STORING PROCEDURE

1. Perform Intelligent Key interlock storing procedure.  
Refer to [ADP-42, "Work Procedure"](#).
2. Check the operation.

Is the inspection result normal?

- YES >> INSPECTION END  
NO >> GO TO 2.

#### 2. CHECK DOOR LOCK FUNCTION

Check door lock function.

Refer to [DLK-48, "Work Flow"](#).

Is the inspection result normal?

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

#### 3. CONFIRM THE OPERATION

Confirm the operation again.

Is the result normal?

- YES >> Check the intermittent incident. Refer to [GI-40, "Intermittent Incident"](#).  
NO >> GO TO 1.

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## NORMAL OPERATING CONDITION

< SYMPTOM DIAGNOSIS >

### NORMAL OPERATING CONDITION

#### Description

INFOID:000000007566142

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

Symptom	Cause	Action to take	Reference page
Lumbar support does not perform memory operation.	The lumbar support system are controlled independently with no link to the automatic drive positioner system.	—	Lumbar support system: <a href="#">SE-10. "LUMBAR SUPPORT SYSTEM : System Description"</a>
Memory function or Intelligent Key interlock function does not operate.	The operating conditions are not fulfilled.	Fulfill the operation conditions.	Memory function: <a href="#">ADP-15. "MEMORY FUNCTION : System Description"</a> Intelligent Key interlock function: <a href="#">ADP-17. "INTELLIGENT KEY INTERLOCK FUNCTION : System Description"</a>



# DRIVER SEAT CONTROL UNIT

< REMOVAL AND INSTALLATION >

## REMOVAL AND INSTALLATION

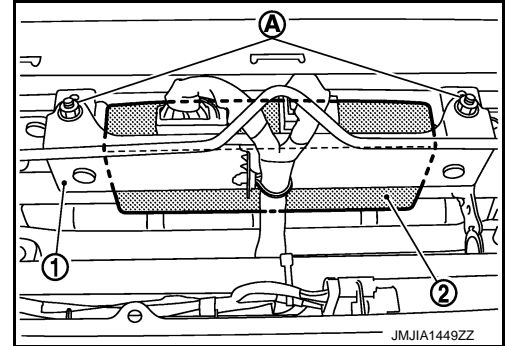
### DRIVER SEAT CONTROL UNIT

#### Removal and Installation

INFOID:000000007566143

#### REMOVAL

1. Remove driver seat. Refer to [SE-28, "Removal and Installation"](#).
2. Remove mounting nuts (A).
3. Remove driver seat control unit (2) from driver seat (1).



#### INSTALLATION

Install in the reverse order of removal.

#### NOTE:

After installing the driver seat, perform additional service when replacing control unit. Refer to [ADP-40, "Description"](#).

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# AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< REMOVAL AND INSTALLATION >

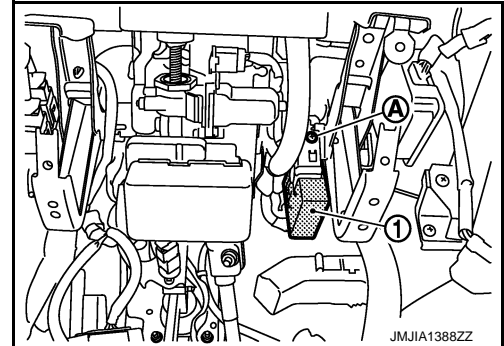
## AUTOMATIC DRIVE POSITIONER CONTROL UNIT

### Removal and Installation

INFOID:000000007566144

#### REMOVAL

1. Remove instrument lower panel LH. Refer to [IP-13. "Removal and Installation"](#).
2. Remove screw (A).
3. Remove automatic drive positioner control unit (1).



#### INSTALLATION

Install in the reverse order of removal.

#### **NOTE:**

After installing the driver seat, perform additional service when replacing control unit. Refer to [ADP-40. "Description"](#).

# SEAT MEMORY SWITCH

< REMOVAL AND INSTALLATION >

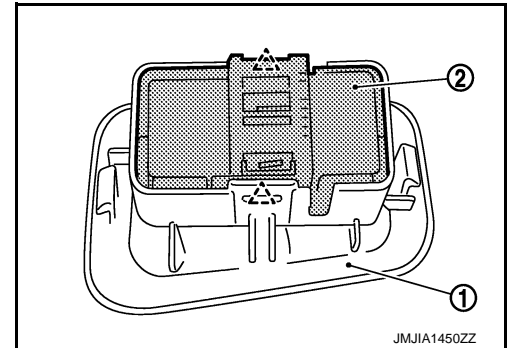
## SEAT MEMORY SWITCH

### Removal and Installation

INFOID:000000007566145

#### REMOVAL

1. Remove seat memory switch finisher. Refer to [INT-13. "Removal and Installation"](#).
2. Press pawls and remove seat memory switch (2) from seat memory finisher (1).



#### INSTALLATION

Install in the reverse order of removal.

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## POWER SEAT SWITCH

< REMOVAL AND INSTALLATION >

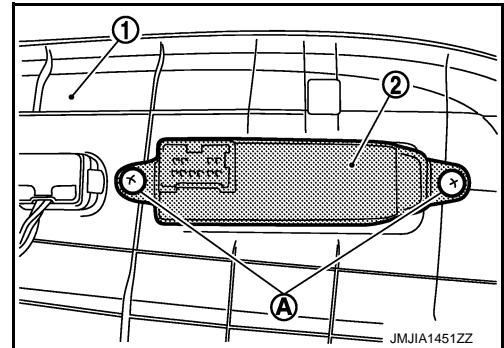
### POWER SEAT SWITCH

#### Removal and Installation

INFOID:000000007566146

#### REMOVAL

1. Remove seat cushion outer finisher. Refer to [SE-28. "Removal and Installation"](#).
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.

# POWER WALK-IN SWITCH

< REMOVAL AND INSTALLATION >

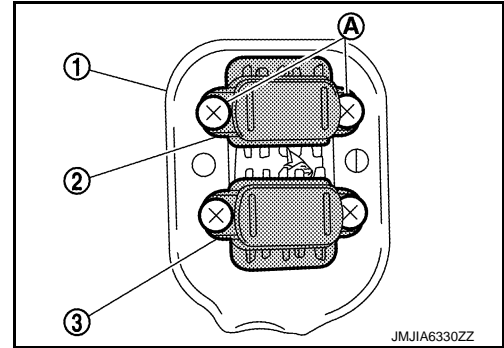
## POWER WALK-IN SWITCH

### Removal and Installation

INFOID:000000007566147

#### REMOVAL

1. Remove driver seat. Refer to [SE-28, "Removal and Installation"](#).
2. Remove seatback pad and power walk-in switch escutcheon. Refer to [SE-30, "SEATBACK : Disassembly and Assembly"](#).
3. Disconnect power walk-in switch harness connector.  
**NOTE:**  
Slightly lift up seatback pad so that harness connector is removed.
4. Remove screws (A) while mounting seat trim, and then remove power walk-in switch (2) from seatback frame assembly (1). Remove power walk-in switch (3) in the same procedures.



#### INSTALLATION

Install in the reverse order of removal.

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# TILT&TELESCOPIC SWITCH

< REMOVAL AND INSTALLATION >


## TILT&TELESCOPIC SWITCH

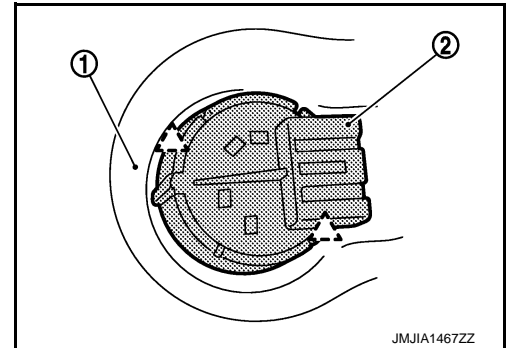
### Removal and Installation

INFOID:000000007566148

#### REMOVAL

1. Remove steering column mask. Refer to [IP-13. "Removal and Installation"](#).
2. Press pawls and remove tilt & telescopic switch (2) from steering column mask (1).

 : Pawl



#### INSTALLATION

Install in the reverse order of removal.