

CONTENTS

PRECAUTION5
PRECAUTIONS
PREPARATION6
PREPARATION
SYSTEM DESCRIPTION7
COMPONENT PARTS 7 Component Parts Location 7 Component Description 8
SYSTEM11
AUTOMATIC DRIVE POSITIONER SYSTEM11 AUTOMATIC DRIVE POSITIONER SYSTEM: System Diagram
MANUAL FUNCTION12 MANUAL FUNCTION : System Diagram13 MANUAL FUNCTION : System Description13
MEMORY FUNCTION14 MEMORY FUNCTION : System Diagram15 MEMORY FUNCTION : System Description15
EXIT ASSIST FUNCTION16 EXIT ASSIST FUNCTION: System Diagram17 EXIT ASSIST FUNCTION: System Description17
ENTRY ASSIST FUNCTION

INTELLIGENT KEY INTERLOCK FUNCTION19 INTELLIGENT KEY INTERLOCK FUNCTION: System Diagram	F
Fail Safe21	L
DIAGNOSIS SYSTEM (DRIVER SEAT CONTROL UNIT)22	
CONSULT Function22	
ECU DIAGNOSIS INFORMATION25	- 1
DRIVER SEAT CONTROL UNIT25	
Reference value25	ΑĽ
Fail Safe30 DTC Index31	
AUTOMATIC DRIVE POSITIONER CON-	k
TROL UNIT32	
Reference Value32	1
BCM (BODY CONTROL MODULE)35	
List of ECU Reference35	
WIRING DIAGRAM36	N
AUTOMATIC DRIVE POSITIONER SYSTEM36 Wiring Diagram36	Ν
BASIC INSPECTION48	
DIAGNOSIS AND REPAIR WORK FLOW48 Work Flow48	C
INSPECTION AND ADJUSTMENT51	F
ADDITIONAL SERVICE WHEN REMOVING BAT- TERY NEGATIVE TERMINAL51 ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Description51	

D

Е

ADDITIONAL SERVICE WHEN REMOVING		DTC Logic	66
BATTERY NEGATIVE TERMINAL : Special Re-		Diagnosis Procedure	
pair Requirement	51		
ADDITIONAL CERVICE WILEN BERLACING		POWER SUPPLY AND GROUND CIRCUIT	67
ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT	E4	DRIVER SEAT CONTROL UNIT	67
ADDITIONAL SERVICE WHEN REPLACING	51	DRIVER SEAT CONTROL UNIT :	0.
	- 4	Diagnosis Procedure	67
CONTROL UNIT: Description	51	DRIVER SEAT CONTROL UNIT : Special Repair	07
ADDITIONAL SERVICE WHEN REPLACING		Requirement	
CONTROL UNIT : Special Repair Requirement	52	rtoquilomont	01
SYSTEM INITIALIZATION	52	AUTOMATIC DRIVE POSITIONER CONTROL	
SYSTEM INITIALIZATION : Description		UNIT	67
SYSTEM INITIALIZATION : Special Repair Re-		AUTOMATIC DRIVE POSITIONER CONTROL	
quirement	52	UNIT : Diagnosis Procedure	67
		AUTOMATIC DRIVE POSITIONER CONTROL	
MEMORY STORING		UNIT : Special Repair Requirement	68
MEMORY STORING : Description	53	CLIDING CWITCH	
MEMORY STORING : Special Repair Require-		SLIDING SWITCH	
ment	53	Component Function Check	
INTELLIGENT KEY INTERLOCK STORING	53	Diagnosis Procedure	
INTELLIGENT KEY INTERLOCK STORING : De-	33	Component Inspection	70
scription	5 4	RECLINING SWITCH	71
INTELLIGENT KEY INTERLOCK STORING :	J 4	Component Function Check	
Special Repair Requirement	54	Diagnosis Procedure	
Special Repail Requirement	54	Component Inspection	
SYSTEM SETTING	54	Component inspection	12
SYSTEM SETTING : Description		LIFTING SWITCH (FRONT)	73
SYSTEM SETTING: Special Repair Requirement		Component Function Check	
·	55	Diagnosis Procedure	
		Component Inspection	
DTC/CIRCUIT DIAGNOSIS	56		
U1000 CAN COMM CIRCUIT	- 0	LIFTING SWITCH (REAR)	
		Component Function Check	
Description		Diagnosis Procedure	
DTC Logic		Component Inspection	76
Diagnosis Procedure		TILT SWITCH	77
Special Repair Requirement	56	Component Function Check	
U1010 CONTROL UNIT (CAN)	. 57	Diagnosis Procedure	
DTC Logic		Component Inspection	
Diagnosis Procedure		Component inspection	10
Š		TELESCOPIC SWITCH	79
B2112 SLIDING MOTOR	58	Component Function Check	
DTC Logic		Diagnosis Procedure	
Diagnosis Procedure	58	Component Inspection	
DOLLA DECLINING MOTOR		·	
B2113 RECLINING MOTOR		SEAT MEMORY SWITCH	
DTC Logic		Component Function Check	
Diagnosis Procedure	60	Diagnosis Procedure	
B2116 TILT MOTOR	62	Component Inspection	82
DTC Logic		DOOD MIDDOD DEMOTE CONTROL	
Diagnosis Procedure		DOOR MIRROR REMOTE CONTROL	
Diagnosis i rocedure	UZ	SWITCH	83
B2128 UART COMMUNICATION LINE	64	CHANGEOVER SWITCH	83
Description	64	CHANGEOVER SWITCH : Component Function	55
DTC Logic		Check	83
Diagnosis Procedure		CHANGEOVER SWITCH : Diagnosis Procedure.	
-		CHANGEOVER SWITCH: Component Inspec-	00
B2130 EEPROM	66	tion	84

MIRROR SWITCH84	TILT MOTOR114
MIRROR SWITCH : Component Function Check84	Component Function Check114
MIRROR SWITCH: Diagnosis Procedure85 MIRROR SWITCH: Component Inspection86	Diagnosis Procedure114
winthOrt Switt Ort. Component inspection80	TELESCOPIC MOTOR116
POWER SEAT SWITCH GROUND CIRCUIT87	Component Function Check116
Diagnosis Procedure87	Diagnosis Procedure116
TILT &TELESCOPIC SWITCH GROUND CIR-	DOOR MIRROR MOTOR118
CUIT88	Component Function Check118
Diagnosis Procedure88	Diagnosis Procedure118
SLIDING SENSOR89	Component Inspection119
Component Function Check89	SEAT MEMORY INDICATOR120
Diagnosis Procedure89	Component Function Check120
Diagnosis Flocedure	Diagnosis Procedure120
RECLINING SENSOR91	Diagnosis 1 10000010120
Component Function Check91	SYMPTOM DIAGNOSIS122
Diagnosis Procedure91	MANUAL FUNCTION DOES NOT OPERATE 122
LIETING SENSOD (EDONT)	MANUAL FUNCTION DOES NOT OPERATE. 122
LIFTING SENSOR (FRONT)93 Component Function Check93	ALL COMPONENT122
Diagnosis Procedure93	ALL COMPONENT : Diagnosis Procedure122
LIFTING SENSOR (REAR)95	POWER SEAT122
Component Function Check95	POWER SEAT : Diagnosis Procedure122
Diagnosis Procedure95	TH T 0 TEL 5000DIO
	TILT & TELESCOPIC
TILT SENSOR97	TILT & TELESCOPIC : Diagnosis Procedure122
Component Function Check97	SEAT SLIDING123
Diagnosis Procedure97	SEAT SLIDING: Diagnosis Procedure123
TELESCOPIC SENSOR99	SEAT RECLINING123
Component Function Check99	SEAT RECLINING : 123 SEAT RECLINING : Diagnosis Procedure
Diagnosis Procedure99	SEAT RECLINING . Diagnosis Procedure 123
-	SEAT LIFTING (FRONT)124
MIRROR SENSOR102	SEAT LIFTING (FRONT) : Diagnosis Procedure 124
DRIVER SIDE102	SEAT LIFTING (REAR)124
DRIVER SIDE : Component Function Check 102	SEAT LIFTING (REAR) : Diagnosis Procedure 124
DRIVER SIDE : Diagnosis Procedure102	OTFERING THE
PASSENGER SIDE103	STEERING TILT
PASSENGER SIDE :	STEERING TILT : Diagnosis Procedure125
Component Function Check103	STEERING TELESCOPIC125
PASSENGER SIDE : Diagnosis Procedure 104	STEERING TELESCOPIC : Diagnosis Procedure. 125
	DOOR MIRROR
SLIDING MOTOR106	DOOR MIRROR126 DOOR MIRROR : Diagnosis Procedure126
Component Function Check106	DOOK WIIKKOK . Diagnosis Procedure126
Diagnosis Procedure106	MEMORY FUNCTION DOES NOT OPERATE. 127
RECLINING MOTOR108	ALL COMPONENT
Component Function Check	ALL COMPONENT : Diagnosis Procedure 127
Diagnosis Procedure108	ALL COMPONENT : Diagnosis Procedure127
•	SEAT SLIDING 127
LIFTING MOTOR (FRONT)110	SEAT SLIDING : Diagnosis Procedure127
Component Function Check110	OFAT DEGLINING
Diagnosis Procedure110	SEAT RECLINING
LIFTING MOTOR (REAR)112	SEAT RECLINING : Diagnosis Procedure128
Component Function Check112	SEAT LIFTING (FRONT)128
Diagnosis Procedure112	SEAT LIFTING (FRONT) : Diagnosis Procedure 128
→	

	NOTE IN COLUMN TO A COLUMN TO	
SEAT LIFTING (REAR)128	NORMAL OPERATING CONDITION	134
SEAT LIFTING (REAR) : Diagnosis Procedure128	Description	134
	·	
STEERING TILT129	REMOVAL AND INSTALLATION	135
STEERING TILT : Diagnosis Procedure129		
OTEFRING TELEGOORIO	DRIVER SEAT CONTROL UNIT	135
STEERING TELESCOPIC129	Removal and Installation	135
STEERING TELESCOPIC : Diagnosis Procedure.129		
DOOD MIDDOD	AUTOMATIC DRIVE POSITIONER CON-	
DOOR MIRROR130	TROL UNIT	136
DOOR MIRROR : Diagnosis Procedure130	Removal and Installation	
ENTRY/EVIT A COICT FUNCTION DOCC NOT	romoval and motaliation illimination	
ENTRY/EXIT ASSIST FUNCTION DOES NOT	SEAT MEMORY SWITCH	137
OPERATE 131	Removal and Installation	137
Diagnosis Procedure131	romoval and motaliation illimination	
	POWER SEAT SWITCH	138
INTELLIGENT KEY INTERLOCK FUNCTION	Removal and Installation	138
DOES NOT OPERATE 132	romoval and motaliation illimination	
Diagnosis Procedure132	TILT&TELESCOPIC SWITCH	139
•	Removal and Installation	
MEMORY INDICATE DOES NOT OPERATE . 133	Tomoral and motalitation infilm	, 00
Diagnosis Procedure133		
5		

PRECAUTION

PRECAUTIONS

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

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

WARNING:

Always observe the following items for preventing accidental activation.

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

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

WARNING:

Always observe the following items for preventing accidental activation.

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

Precautions for Removing Battery Terminal

When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.

NOTE:

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

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

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

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

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

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PREPARATION

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PREPARATION

PREPARATION

Commercial Service Tools

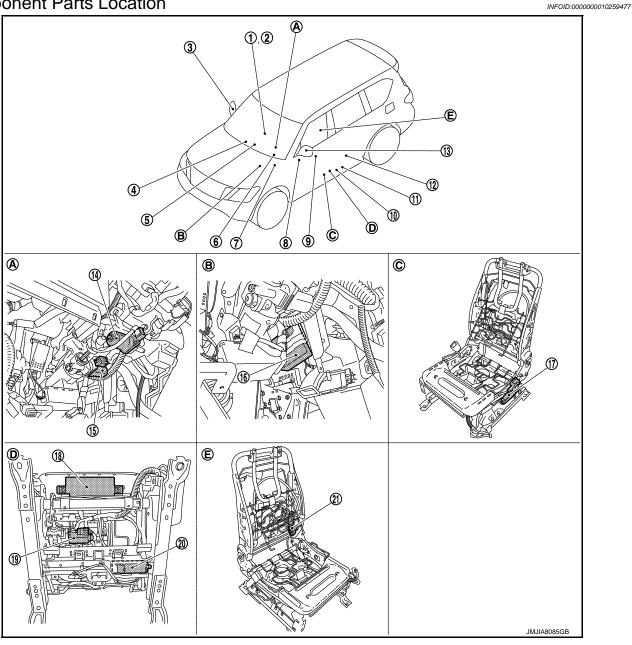
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	Tool name	Description
Remover tools	JMKIA3050ZZ	Removes the clips, pawls and metal clips

SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location



- A/T shift selector (detention switch) Refer to TM-11, "A/T CONTROL **SYSTEM: Component Parts Loca**tion".
- Combination meter Refer to MWI-6, "METER SYSTEM: Component Parts Location".
- 7. ABS actuator and electric unit (con- 8. trol unit) Refer to BRC-9, "Component Parts Location".
- 10. Sliding, lifting switch
- 13. Door mirror (driver side)

- **TCM** Refer to TM-11, "A/T CONTROL SYSTEM: Component Parts Location".
 - **BCM** Refer to BCS-4, "BODY CONTROL **SYSTEM: Component Parts Loca**tion".
- Seat memory switch
- 11. Reclining switch
- 14. Tilt motor

Door mirror (passenger side)

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- 6. Tilt & telescopic switch
- 9. Power window main switch (Door mirror remote control switch)
- 12. Driver side door switch
- 15. Telescopic motor

ADP-7 Revision: 2014 October 2015 QX80

COMPONENT PARTS

< SYSTEM DESCRIPTION >

- 16. Automatic drive positioner control unit
- 17. Lifting motor (rear)
- 18. Diver seat control unit

- 19. Lifting motor (front)
- 20. Sliding motor

21. Reclining motor

- A. View with steering column cover low- B. er removed
- View with instrument lower panel LH C. removed
- View with seat cushion pad and seat back pad removed

- D. Backside of seat cushion
- E. View with seat cushion pad and seat back pad removed

Component Description

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Component parts	Description
Driver seat control unit	 Main units of automatic drive positioner system. It is connected to the CAN. It communicates with automatic drive positioner control unit via UART communication. It perform memory function after receiving the door unlock signal from BCM. The address of each part is recorded. Operates each motor of seat to the registered position. Requests the operation of steering column and door mirror to automatic drive positioner control unit Operates the specific seat motor with the signal from power seat switch. Transmits the ignition switch signal (ACC/ON) via UART communication to automatic drive positioner control unit.
Automatic drive positioner control unit	 It communicates with driver seat control unit via UART communication. Perform various controls with the instructions of driver seat control unit. Perform the controls of tilt & telescopic, door mirror and seat memory switch. Operates steering column and door mirror with the signal from the driver seat control unit
ВСМ	Recognizes the following status and transmits it to driver seat control unit via CAN communication. Handle position: LHD Driver door: OPEN/CLOSE Ignition switch position: ACC/ON Door lock: UNLOCK (with Intelligent key or driver side door request switch operation) Key ID Starter: CRANKING/OTHER
IPDM E/R	ON/OFF signal of A/T shift selector (detention switch) is transmitted to driver seat control unit via CAN communication.
ТСМ	The following signals are transmitted to driver seat control unit via CAN communication. • Shift position signal (P range) • Identification of transmission: A/T
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.
A/T sift selector (Detention switch)	 Detention switch is installed on A/T shift selector. It is turned OFF when A/T shift selector is in P position. IPDM E/R judges that A/T shift selector is in P position if continuity does not exist in this circuit.

COMPONENT PARTS

< SYSTEM DESCRIPTION >

Comp	ponent parts	Description	
	Mirror switch	 Mirror switch is integrated in door mirror remote control switch. It operates angle of door mirror face. It transmits mirror face adjust operation to automatic drive positioner control unit. 	
Power window main switch (Door mirror re- mote control switch)	Changeover switch	 Changeover switch is integrated in door mirror remote control switch. Changeover switch has three positions (L, N and R). It changes operating door mirror motor by transmitting control signal to automatic drive positioner control unit. 	
	Open/close switch	 Open/close switch is integrated in door mirror remote control switch. Power is supplied to folding mirror from door mirror remote control switch when operating switch. 	
Tit 0 talanania mitala	Tilt switch	 Tilt switch is equipped to steering column. The operation signal is input to automatic drive positioner control unit when tilt switch is operated. 	
Tilt & telescopic switch	Telescopic switch	 Telescopic switch is equipped to steering column. The operation signal is input to automatic drive positioner control unit when telescopic switch is operated. 	
Seat memory switch	Set switch	It is used for registration and setting change of driving position and Intelligent Key interlock function.	
	Seat memory switch	 The maximum 2 driving positions can be registered by memory switch 1 to 2. Driving position is set to the registered driving position when memory switch is pressed while operation conditions are satisfied. 	
	Seat memory indicator	Memory indicator indicates the status of auto driving position system by turning ON or blinking.	
	Sliding switch	 Sliding switch is equipped to power seat switch on seat cushion side surface. The operation signal is input to driver seat control unit when sliding switch is operated. 	
	Reclining switch	 The operation signal is input to driver seat control unit when reclining switch is operated. The operation signal is input to driver seat control unit when reclining switch is operated. 	
Power seat switch	Lifting switch (front)	 Lifting switch (front) is equipped to power seat switch on seat cushion side surface. The operation signal is input to driver seat control unit when lifting switch (front) is operated. 	
	Lifting switch (rear)	 Lifting switch (rear) is equipped to power seat switch on seat cushion side surface. The operation signal is input to driver seat control unit when lifting switch (rear) is operated. 	
	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.	
Door mirror (driver side/ passenger side)	Mirror sensor	 Mirror sensor is installed to door mirror. The resistance of 2 sensors (horizontal and vertical) is changed when door mirror is operated. Automatic drive positioner control unit calculates door mirror position according to the change of the voltage of 2 sensor input terminals. 	

COMPONENT PARTS

< SYSTEM DESCRIPTION >

Cc	emponent parts	Description
	Tilt motor	 Tilt motor is installed to steering column assembly. Tilt motor is activated with automatic drive positioner control uni Steering column is tilted upward/downward by changing the rotation direction of tilt motor.
Tilt motor	Tilt sensor	 Tilt sensor is integrated in tilt motor. The resistance of tilt sensor is changed according to the up/down position of steering column. The terminal voltage of automatic drive positioner control unit will be changed according to a change of tilt sensor resistance. Automatic drive positioner control unit calculates the tilt position from the voltage.
	Telescopic motor	 Telescopic motor is installed to steering column assembly. Telescopic motor is activated with automatic drive positioner control unit. Compresses steering column by changing the rotation directio of telescopic motor.
Telescopic motor	Telescopic sensor	 Telescopic sensor is integrated in telescopic motor. The resistance of telescopic sensor is changed according to th forward/backward position of steering column. The terminal voltage of automatic drive positioner control unit will be changed according to a change of telescopic sensor re sistance. Automatic drive positioner control unit calculates the telescopi position from the voltage.
Sliding motor	Sliding motor	 Seat sliding motor is installed to the seat cushion frame. Seat sliding motor is activated with driver seat control unit. Slides the seat frontward/ rearward by changing the rotation of rection of sliding motor.
	Sliding sensor	 Sliding sensor is integrated in sliding motor. The pulse signal is input to driver seat control unit when slidin is performed. Driver seat control unit counts the pulse and calculates the sliing amount of the seat.
Reclining motor	Reclining motor	 Seat reclining motor is installed to seat back frame. Seat reclining motor is activated with driver seat control unit. Seatback is reclined frontward/rearward by changing the rotation direction of reclining motor.
	Reclining sensor	 Reclining sensor is integrated in reclining motor. The pulse signal is input to driver seat control unit when the reclining is operated. Driver seat control unit counts the pulse and calculates the reclining amount of the seat.
Lifting motor (front)	Lifting motor (front)	 Lifting motor (front) is installed to seat side cushion frame. Lifting motor is activated with driver seat control unit. Seat lifter (front) is moved upward/downward by changing the rotation direction of lifting motor (front).
	Lifting sensor (front)	 Lifting sensor (front) is installed in lifting motor (rear). When lifting motor (rear) operates, pulse signal is transmitted to driver seat control unit from lifting sensor. Driver seat control unit counts the pulse and calculates the lift position (rear) of the seatest control unit from lifting sensor.
	Lifting motor (rear)	 Lifting motor (rear) is installed to seat slide cushion frame. Lifting motor (rear) is activated with driver seat control unit. Seat lifter (rear) is moved upward/downward by changing the retation direction of lifting motor (rear).
Lifting motor (rear)	Lifting sensor (rear)	 Lifting sensor (rear) is installed to seat side cushion frame. The pulse signal is input to driver seat control unit when lifting (rear) is operated. Driver seat control unit counts the pulse and calculates the liftin (rear) amount of the seat.

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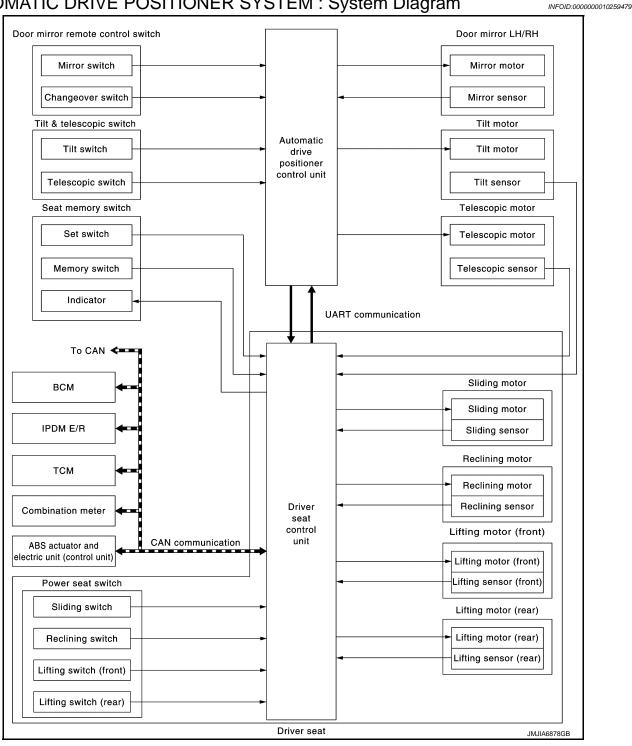
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SYSTEM AUTOMATIC DRIVE POSITIONER SYSTEM

AUTOMATIC DRIVE POSITIONER SYSTEM: System Diagram



AUTOMATIC DRIVE POSITIONER SYSTEM: System Description

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.

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

NOTE:

The lumbar support system are controlled independently with no link to the automatic drive positioner system. Refer to <u>SE-16</u>, "<u>LUMBAR SUPPORT SYSTEM</u>: <u>System Description</u>".

Sleep control

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

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

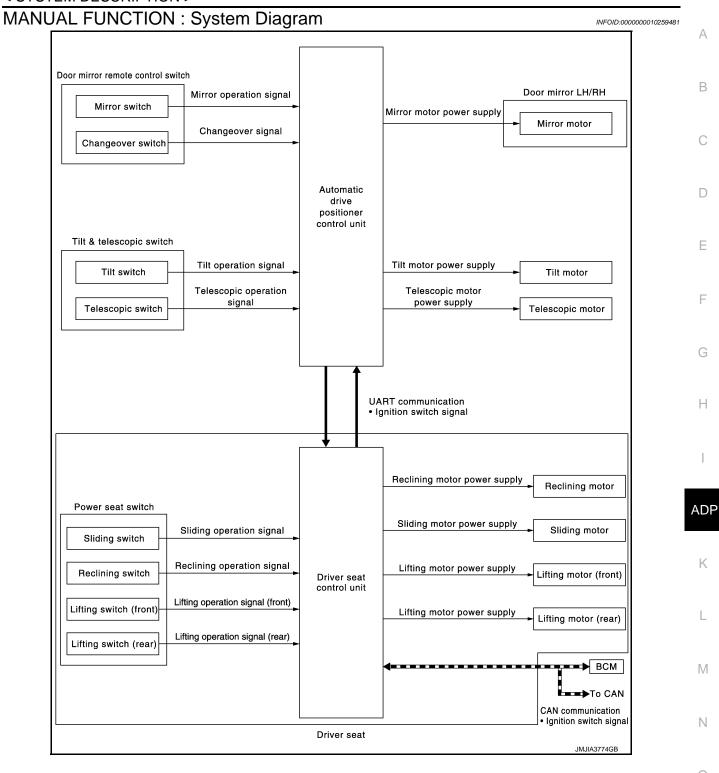
- · Ignition switch is OFF.
- All devices of auto driving position system are not operating.
- 45 seconds timer of driver seat control unit is not operating.
- Set switch and memory switch (1 and 2) are OFF.

Wake-up control

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

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

MANUAL FUNCTION



MANUAL FUNCTION: System Description

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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.

OPERATION PROCEDURE

- Turn ignition switch ON.
- Operate power seat switch, tilt & telescopic switch or door mirror remote control switch.
- 3. The driver seat, steering column or door mirror operates according to the operation of each switch.

ADP-13 Revision: 2014 October 2015 QX80

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

DETAIL FLOW

Seat

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

NOTE:

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

Tilt & Telescopic

Order	Input	Output	Control unit condition
1	Tilt & telescopic switch	_	The tilt & telescopic switch signal is inputted to the automatic drive positioner control unit when the tilt & telescopic switch is operated.
2	_	Motors (Tilt, telescopic)	The automatic drive positioner control unit actuates each motor according to the operation of the tilt & telescopic switch.

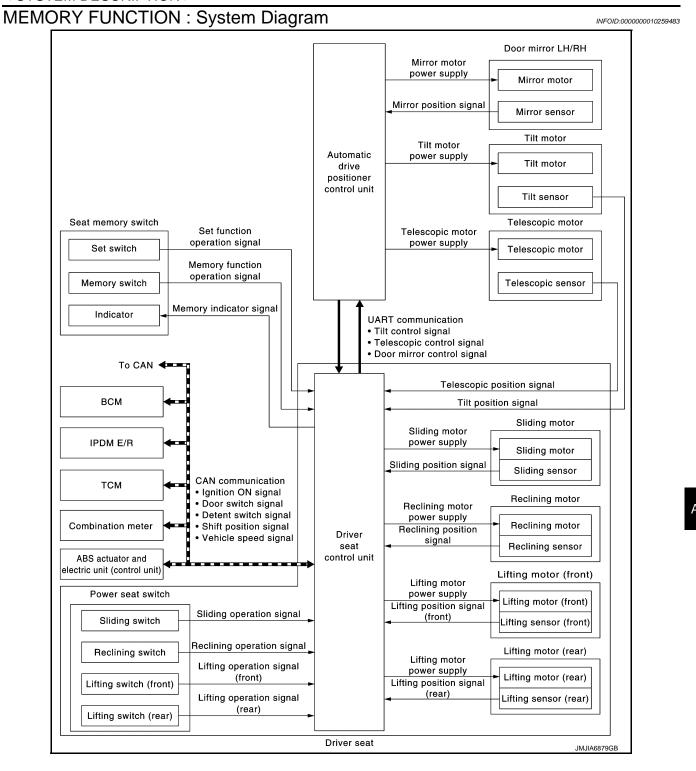
Door Mirror

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

NOTE:

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

MEMORY FUNCTION



MEMORY FUNCTION: System Description

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The driver seat control unit can store the optimum driving positions (seat, steering column and door mirror position) for 2 people. If the front seat position is changed, one-touch (pressing desired memory switch) operation allows changing to the other driving position.

NOTE:

Further information for the memory storage procedure. Refer to ADP-53, "MEMORY STORING: Description".

OPERATION PROCEDURE

- Turn ignition switch ON.
- Shift position P position.

Revision: 2014 October ADP-15 2015 QX80

< SYSTEM DESCRIPTION >

- 3. Push desired memory switch.
- 4. Driver seat, steering and door mirror will move to the memorized position.

OPERATION CONDITION

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

Item	Request status
Ignition position	ON*
Switch inputs Power seat switch Tilt & telescopic switch Door mirror control switch Set switch Memory switch	OFF (Not operated)
A/T shift selector	P position
Memory function	Registered
Vehicle speed	0 Km/h (0 MPH)
CONSULT	Not connected

^{*:} When timer function does not operate.

DETAIL FLOW

Order	Input	Output	Control unit condition		
1	Memory switch	_	The memory switch signal is inputted to the driver seat control unit when memory switch 1 or 2 is operated.		
2	_	Motors (Seat, Steering, door mirror)	Driver seat control unit operates each motor of seat when it recognizes the memory switch pressed for 0.5 second or more and requests each motor operation to automatic drive positioner control unit via UART communication. The automatic drive positioner control unit operates each motor.		
		Memory switch Indicator	Driver seat control unit requests the flashing of memory indicator while either of the motors is operating. The driver seat control unit illuminates the memory indicator.		
3	Sensors (Seat, steering col- umn, door mirror)	_	Driver seat control unit judges the operating seat position with ea seat sensor input. The positions of the steering column and outsi mirror are monitored with each sensor signal. Driver seat control ustops the operation of each motor when each part reaches the rece ed address.		
4	_	Memory switch Indicator	a- Driver seat control unit requests the illumination of memory indicate after all motors stop. The driver seat control unit illuminates the mer ory indicator for 5 seconds.		

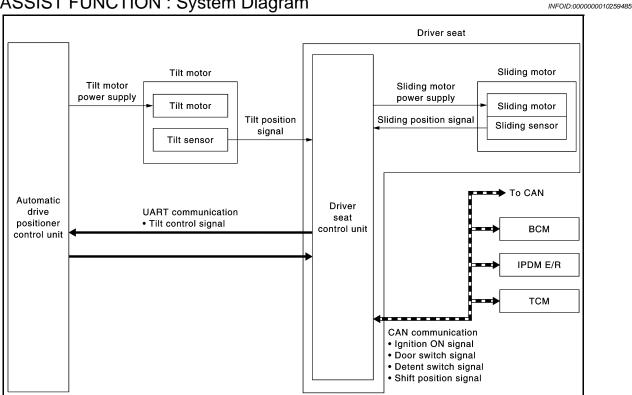
TIMER FUNCTION

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

Item	Request status
Ignition position	OFF
Set switch/memory switch	OFF
Memory function	Registered
A/T shift selector	P position
Driver side door switch	OFF
CONSULT	Not connected

EXIT ASSIST FUNCTION

EXIT ASSIST FUNCTION: System Diagram



EXIT ASSIST FUNCTION: System Description

- When exiting, the condition is satisfied, the seat is moved backward 40 mm (1.57 in) from normal sitting position and the steering is moved to the most upper position.
- The seat slide amount and the steering operation at entry/exit operation can be changed.

NOTE:

- This function is set to ON before delivery (initial setting).
- Further information for the system setting procedure. Refer to <u>ADP-54, "SYSTEM SETTING: Description"</u>.

OPERATION PROCEDURE

- Shift position P position.
- Open the driver door with ignition switch in OFF position.
- Driver seat and steering column will move to the exiting position.

OPERATION CONDITION

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

Item	Request status
Ignition position	OFF
System setting [Entry/exit assist function (seat/steering)]	ON
Initialization	Done
Switch inputs Power seat switch Tilt & telescopic switch Door mirror remote control switch Set switch Memory switch	OFF (Not operated)
A/T shift selector	P position
Handle position	LHD

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ADP-17 Revision: 2014 October 2015 QX80

< SYSTEM DESCRIPTION >

Item	Request status
Transmission	A/T
CONSULT	Not connected

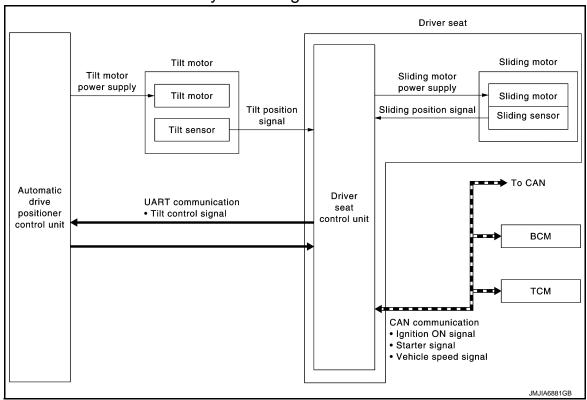
DETAIL FLOW

Order	Input	Output	Control unit condition	
1	Door switch (Driver side)	_	Driver seat control unit receives door switch signal (driver side/open) from BCM via CAN communication.	
2	_	Motors (Sliding, tilt)	Driver seat control unit operates the seat sliding motor, which recognizes that the driver side door is opened with ignition switch OFF. Driver seat control unit then requests the operations of tilt motor to auto drive positioner control unit via UART communication. The automatic drive positioner control unit operates each motor for a constant amount.	
3	Sensor (Sliding, tilt)	_	Each sensor monitors the operating positions of seat and steering, and then stops the operation of each motor when each part reaches the recorded address.	

ENTRY ASSIST FUNCTION

ENTRY ASSIST FUNCTION: System Diagram

INFOID:0000000010259487



ENTRY ASSIST FUNCTION : System Description

INFOID:0000000010259488

The seat is in the exiting position when following condition is satisfied, the seat returns from exiting position to the previous driving position.

NOTE:

- This function is set to ON before delivery (initial setting).
- Further information for the system setting procedure. Refer to <u>ADP-54, "SYSTEM SETTING: Description"</u>.

OPERATION PROCEDURE

1. Turn ignition switch ACC.

SYSTEM

< SYSTEM DESCRIPTION >

2. Driver seat and steering column will return from the exiting position to entry position.

OPERATION CONDITION

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

Item	Request status
Seat, steering column	The vehicle is not moved after performing the exit assist function.
Switch inputs Power seat switch Tilt & telescopic switch Door mirror control switch Set switch Memory switch	OFF (Not operated)
Vehicle speed	0 Km/h (0 MPH)
Starter	OFF
Transmission	A/T
CONSULT	Not connected

DETAIL FLOW

Order	Input	Output	Control unit condition	
1	Ignition switch	_	Driver seat control unit receives the signals of [ignition switch signal] from BCM via CAN communication.	
2	_	Motors (Sliding, tilt)	Driver side control unit operates the sliding motor when the operating conditions are satisfied and requests the operations of tilt motor to automatic drive positioner control unit via UART communication. The automatic drive positioner operates each motor.	
3	Sensors (Sliding, tilt)	_	Each sensor monitors the operating positions of seat and steer and then stops the operation of each motor when each part rea the recorded address.	

INTELLIGENT KEY INTERLOCK FUNCTION

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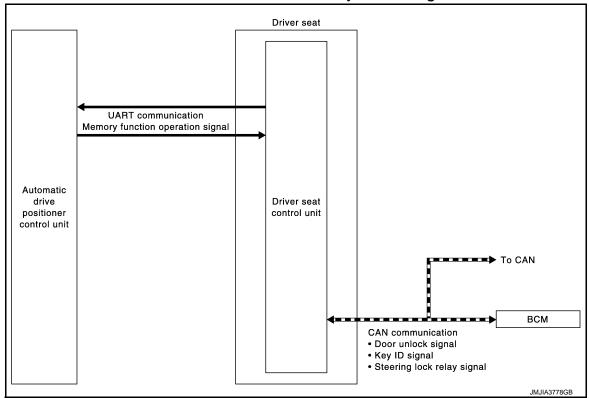
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INTELLIGENT KEY INTERLOCK FUNCTION : System Diagram

INFOID:0000000010259489



INTELLIGENT KEY INTERLOCK FUNCTION: System Description

INFOID:0000000010259490

- By associating Intelligent Key and automatic drive positioner system, the unlock operation of Intelligent Key
 or driver side door request switch performs memory function and entry/exit assist 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 other than seat sliding. Seat sliding and steering column tilt perform return operation and are set to standby status.
- In standby status, when ignition switch is operated from OFF to ACC, return operation sets seat sliding and steering column tilt to a registered position.

NOTE:

- When another key ID is newly registered to a key switch to which a key ID is already registered, the previously registered key ID is overwritten and becomes unusable.
- When starter signal turns ON during return operation, the operation is interrupted, starter signal turns from ON to OFF, and operation restarts.

OPERATION PROCEDURE

- 1. Unlock driver door by Intelligent Key or driver side door request switch.
- Operation other than memory function of seat sliding is performed. Seat sliding and steering column tilt perform exit assist operation.
- Turn ignition switch ACC.
- 4. Driver seat and steering column will return from the exiting position to entry position.

NOTE:

Further information for Intelligent Key interlock function. Refer to <u>ADP-54, "INTELLIGENT KEY INTERLOCK STORING: Description"</u>.

OPERATION CONDITION

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

SYSTEM

< SYSTEM DESCRIPTION >

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

DETAIL FLOW

Order	Input	Output	Control unit condition	
1	Door unlock signal (CAN) Key ID signal (CAN)	_	Driver seat control unit receives unlock signal and key ID signal from BCM, when driver seat control unit is unlocked by Intelligent Key or driver side door request switch.	
2	_	_	Driver seat control unit performs the seat slide and steering tilt move directly to the exit assist function. Other loads move to the exit assist function after performing memory function.	
3	_	_	Driver seat control unit performs the entry assist function.	

Fail Safe

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

Operating in fail-safe mode	Malfunction Item	Related DTC	Diagnosis
	CAN communication	U1000	ADP-56
Only manual functions operate normally.	CONTROL UNIT	U1010	ADP-57
	EEPROM	B2130	ADP-66
Only manual functions, except door mirror, operate normally.	UART communication	B2128	ADP-64
Only manual functions, except seat sliding, operate normally.	Seat sliding output	B2112	ADP-58
Only manual functions, except seat reclining, operate normally.	Seat reclining output	B2113	ADP-60
Only manual functions, except steering tilt, operate normally.	Steering column tilt output	B2116	ADP-62

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DIAGNOSIS SYSTEM (DRIVER SEAT CONTROL UNIT)

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (DRIVER SEAT CONTROL UNIT)

CONSULT Function

INFOID:0000000010259492

The automatic drive positioner system can be checked and diagnosed for component operation using CON-SULT.

APPLICATION ITEMS

Diagnostic mode	Description
Ecu Identification	Displays part numbers of driver seat control unit.
Self Diagnostic Result	Performs self-diagnosis for the auto drive positioner system and displays the results.
Data Monitor	Displays input signals transmitted from various switches and sensors to driver seat control unit in real time.
Active Test	Drives each output unit.
Work support	Changes the setting for each system function.

SELF-DIAGNOSIS RESULTS

Refer to ADP-31, "DTC Index".

DATA MONITOR

NOTE:

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

Monitor Item	Unit	Main Signals	Selection From Menu	Contents
STARTER SW	"ON/OFF"	×	×	Ignition key switch ON (START, ON) /OFF (ACC, OFF) status judged from the ignition switch signal.
SET SW	"ON/OFF"	×	×	ON/OFF status judged from the setting switch signal.
MEMORY SW 1	"ON/OFF"	×	×	ON/OFF status judged from the seat memory switch 1 signal.
MEMORY SW 2	"ON/OFF"	×	×	ON/OFF status judged from the seat memory switch 2 signal.
DETENT SW	"ON/OFF"	×	×	The A/T shift selector position "OFF (P position) / ON (other than P position)" judged from the detention switch signal.
STEERING STATUS	"LOCK/UN- LOCK"	×	×	NOTE: This item is displayed, but cannot monitored.
SLIDE SW-FR	"ON/OFF"	×	×	ON/OFF status judged from the sliding switch (forward) signal.
SLIDE SW-RR	"ON/OFF"	×	×	ON/OFF status judged from the sliding switch (backward) signal.
RECLN SW-FR	"ON/OFF"	×	×	ON/OFF status judged from the reclining switch (forward) signal.
RECLN SW-RR	"ON/OFF"	×	×	ON/OFF status judged from the reclining switch (backward) signal.
LIFT FR SW-UP	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch front (up) signal.
LIFT FR SW-DN	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch front (down) signal.
LIFT RR SW-UP	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch rear (up) signal.
LIFT RR SW-DN	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch rear (down) signal.
TILT SW-UP	"ON/OFF"	×	×	ON/OFF status judged from the tilt switch (up) signal.

DIAGNOSIS SYSTEM (DRIVER SEAT CONTROL UNIT)

< SYSTEM DESCRIPTION >

Monitor Item	Unit	Main Signals	Selection From Menu	Contents
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.
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.
MIR CHNG SW-L	"ON/OFF"	×	×	ON/OFF status judged from the door mirror remote control switch (switching to left) signal.
VEHICLE SPEED	_	×	×	Display the vehicle speed signal received from combination meter by numerical value [km/h].
P RANG SW CAN	"ON/OFF"	×	×	ON/OFF status judged from the P range switch signal.
R RANGE (CAN)	"ON/OFF"	×	×	ON/OFF status judged from the R range switch signal.
DOOR SW-FL	"ON/OFF"	×	×	ON/OFF status judged from the 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.
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.
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.

ADP-23 Revision: 2014 October 2015 QX80

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DIAGNOSIS SYSTEM (DRIVER SEAT CONTROL UNIT)

< SYSTEM DESCRIPTION >

Monitor Item	Unit	Main Signals	Selection From Menu	Contents
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.

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.

WORK SUPPORT

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

< ECU DIAGNOSIS INFORMATION >

ECU DIAGNOSIS INFORMATION

DRIVER SEAT CONTROL UNIT

Reference Value

VALUES ON THE DIAGNOSIS TOOL

NOTE:

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

CONSULT MONITOR ITEM

Monitor Item	Condi	tion	Value/Status
SET SW	Set switch	Push	ON
SET SVV	Set Switch	Release	OFF
MEMORY SW1	Maman avitale 4	Push	ON
MEMORY SWI	Memory switch 1	Release	OFF
MEMORY CWO	Momory quitab 2	Push	ON
MEMORY SW2	Memory switch 2	Release	OFF
SLIDE SW-FR	Cliding switch (forward)	Operate	ON
SLIDE SW-FK	Sliding switch (forward)	Release	OFF
SLIDE SW-RR	Cliding switch (hadayard)	Operate	ON
SLIDE SW-KK	Sliding switch (backward)	Release	OFF
RECLN SW-FR	Reclining switch (forward)	Operate	ON
RECLIN SW-FR	Recilining Switch (lorward)	Release	OFF
RECLN SW-RR	Reclining switch (back-	Operate	ON
RECLIN SW-RR	ward)	Release	OFF
LIFT FR SW-UP	Lifting switch front (up)	Operate	ON
		Release	OFF
LIFT FR SW-DN	Lifting switch front (down)	Operate	ON
LIFT FR SW-DIN	Litting Switch from (down)	Release	OFF
LIFT RR SW-UP	Lifting switch rear (up)	Operate	ON
LIFT KK SW-OF	Litting Switch real (up)	Release	OFF
LIET DD OW DN	Lifting quitab roor (down)	Operate	ON
LIFT RR SW-DN	Lifting switch rear (down)	Release	OFF
MIR CON SW-UP	Mirror switch	Up	ON
VIIK CON SW-OP	WIIITOI SWILCII	Other than the above	OFF
MIR CON SW-DN	Mirror switch	Down	ON
VIIR CON SW-DIN	WIIITOI SWILCII	Other than the above	OFF
MIR CON SW-RH	Mirror switch	Right	ON
WIII CON SW-KA	WILLIAM SWILCH	Other than the above	OFF
MIR CON SW-LH	Mirror switch	Left	ON
VIIN CON SVV-LM	WILLOL SWILCH	Other than the above	OFF
MID CHNC CW D	Changaayarawitah	Right	ON
MIR CHNG SW-R	Changeover switch	Other than the above	OFF
MID CHNC CW I	Changaayarawitah	Left	ON
MIR CHNG SW-L	Changeover switch	Other than the above	OFF

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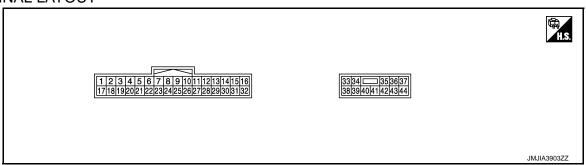
Monitor Item	Co	ndition	Value/Status
TILT SW-UP	Tilt switch	Upward	ON
TILI SVV-UP	THE SWILCTI	Other than the above	OFF
TILT SW-DOWN	Tilt switch	Downward	ON
TIET SW-DOWN	THE SWILCH	Other than the above	OFF
TELESCO SW-FR	Telescopic switch	Forward	ON
TELESCO SW-I IX	relescopic switch	Other than the above	OFF
TELESCO SW-RR	Telescopic switch	Backward	ON
TELEGOO OW KIK	releacopie awiteri	Other than the above	OFF
DETENT SW	A/T shift selector	P position	OFF
DETERM OW	7 V T STILL SOLOSIO	Other than the above	ON
STARTER SW	Ignition position	Cranking	ON
OTARCIER OW	ignition position	Other than the above	OFF
		Forward	The numeral value decreases *
SLIDE PULSE	Seat sliding	Backward	The numeral value increases*
		Other than the above	No change to numeral value*
		Forward	The numeral value decreases*
RECLN PULSE	Seat reclining	Backward	The numeral value increases *
		Other than the above	No change to numeral value [*]
		Up	The numeral value decreases *
LIFT FR PULSE	Seat lifter (front)	Down	The numeral value increases *
		Other than the above	No change to numeral value*
		Up	The numeral value decreases *
LIFT RR PULSE	Seat lifter (rear)	Down	The numeral value increases *
		Other than the above	No change to numeral value [*]
MIR/SEN RH U-D	Door mirror (passenger	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)
		Upward	The numeral value decreases *
TILT PULSE	Tilt position	Downward	The numeral value increases *
		Other than the above	No change to numeral value*
		Forward	The numeral value decreases *
TELESCO PULSE	Telescopic position	Backward	The numeral value increases *
		Other than the above	No change to numeral value*
STEERING STATUS	NOTE: This item is displayed, b	ut cannot monitored.	
VEHICLE SPEED	The condition of vehicle	speed is displayed	km/h
P RANG SW CAN	A/T shift selector	P position	ON
F NAING SW CAIN	W I SHIII SEIECIOI	Other than the above	OFF

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Cond	ition	Value/Status
R RANGE (CAN)	A/T shift selector	R position	ON
R RANGE (CAN)	A/ I SIIII Selector	Other than the above	OFF
DOOR SW-FL	Driver door	Open	ON
DOOK SW-I L	Driver door	Close	OFF
DOOR SW-FR	Passenger door	Open	ON
DOOK SW-I K	r asseriger door	Close	OFF
IGN ON SW	Ignition switch	ON position	ON
IGN ON SW	ignition switch	Other than the above	OFF
ACC ON SW	Ignition switch	ACC or ON position	ON
ACC ON SW		Other than the above	OFF
KEY ON SW	Intelligent Key	Inserted is key slot	ON
RET ON SW	Intelligent Key	Inserted is not key slot	OFF
KEYLESS ID	UNLOCK button of Intellige	ent Key is pressed	1, 2, 3, 4 or 5
KYLS DR UNLK	Intelligent Key or driver	ON	ON
KTLS DK UNLK	side door request switch	OFF	OFF
VHCL SPEED (ABS)	Can signal from ABS	Received	ON
VIICE OF EED (ADO)	Call signal from ABS	Not received	OFF
HANDLE	The BCM for handle position	on is displayed	LHD
HANDLE	The BOW for Haritie position	on is displayed	RHD
TRANSMISSION	Transmission type is displa	wod	AT or CVT
TRANSIVIISSION	Transmission type is displa	iyeu	MT

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

TERMINAL LAYOUT



PHYSICAL VALUES

	inal No. e color)	Description		Condition	Voltage (V)	
+	-	Signal name	Input/ output	Condition	(Approx.)	
1 (R/Y)	_	CAN-H	_	_	_	
2 (R)	Ground	UART communication (TX/RX)	Input	Ignition switch ON	10msec/div	

Revision: 2014 October ADP-27 2015 QX80

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4 (R/L)	Ground	Reclining sensor signal	Input	Seat reclining	Operate	10mSec/div
					Other than the above	0 or 5
5 (R/B)	Ground	Telescopic sensor signal	Input	Steering telescopic	Operate	10mSec/div 2V/div JMJIA0119ZZ
					Other than the above	0 or 5
6		Memory switch 2 sig-			Press	0
(R/W)	Ground	nal	Input	Memory switch 2	Other than the above	5
7		Memory indicator 2		Memory indicator	Illuminate	1
(R/G)	Ground	signal	Output	2	Other than the above	12
8		Sliding switch back- ward signal	Input	Sliding switch	Operate (backward)	0
(SB)	Ground				Other than the above	12
9		Reclining switch back- ward signal	Input	Reclining switch	Operate (backward)	0
(L)	Ground				Other than the above	12
10		Lifting switch (front)		Lifting switch	Operate (down)	0
(L/B)	Ground	down signal	Input	(front)	Other than the above	12
11		Lifting switch (rear)		Lifting switch	Operate (down)	0
(L/W)	Ground	down signal	Input	(rear)	Other than the above	12
12 (L/R)	Ground	Sensor power supply	Output	<u> </u>		12
17 (V)	_	CAN-L	_	_		_
18 (B/W)	Ground	Sliding sensor signal	Input	Seat sliding	Operate	10mSec/div
					Other than the above	0 or 5

< ECU DIAGNOSIS INFORMATION >

19 (B/R)	Ground	Lifting sensor (front) signal	Input	Seat lifting (front)	Operate Other than the above	10mSec/div 2V/div JMJIA0119ZZ
20 (B/L)	Ground	Lifting sensor (rear) signal	Input	Seat lifting (rear)	Operate Other than the	10mSec/div 2V/div JMJIA0119ZZ
21 (W/B)	Ground	Tilt sensor signal	Input	Steering tilt	above Operate	10mSec/div 2V/div JMJIA0119ZZ
					Other than the above	0 or 5
22 (W/L)	Ground	Memory switch 1 sig- nal	Input	Memory switch 1	Other than the above	5
23 (W/R)	Ground	Memory indicator 1	Output	Memory indicator	Illuminate Other than the	1
(VV/K)		signal		I	above	12
24 (V/W)	Ground	Sliding switch forward signal	Input	Sliding switch	Operate (forward)	0
		Signal			Other than the above	12
25	Ground	Reclining switch for-	Input	Reclining switch	Operate (forward)	0
(Y/B)	Ground	ward signal	input	Reclining switch	Other than the above	12
26	Ground	Lifting switch (front) up	Input	Lifting switch	Operate (up)	0
(Y/R)	Giodila	signal	Input	(front)	Other than the above	12
27	Ground	Lifting switch (rear) up	le 1	Lifting switch (rear)	Operate (up)	0
(Y/L)	Sibulia	signal	Input		Other than the above	12
28		6		0.4	Press	0
(G)	Ground	Set switch signal	Input	Set switch	Other than the above	5

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	l					
33 (R)	Ground	Battery power supply	Input	_		Battery voltage
34 (B)	Ground	Sliding motor back- ward output signal	Output	Seat sliding	Operate (backward)	12
					Other than the above	0
35	01	Reclining motor for- ward output signal	Output	Seat reclining	Operate (forward)	12
(G)	Ground				Other than the above	0
36	Cround	Lifting motor (front) down output signal	Output	Seat lifting (front)	Operate (down)	12
(L)	Ground				Other than the above	0
38	Ground	Sliding motor forward output signal	Output	Seat sliding	Operate (forward)	12
(GR)					Other than the above	0
39	Ground	Reclining motor back- ward output signal	Output	Seat reclining	Operate (backward)	12
(Y)	Ground				Other than the above	0
40	Ground	Lifting motor (front) up output signal	Output	Seat lifting (front)	Operate (up)	12
(W)					Other than the above	0
41	Ground	Lifting motor (rear) up output signal	Output	Seat lifting (rear)	Operate (up)	12
(V)					Other than the above	0
42	Ground	Lifting motor (rear) down output signal	Output	Seat lifting (rear)	Operate (down)	12
(P/B)					Other than the above	0
43 (LG)	Ground	Ground	_	-	_	0

Fail Safe

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

Operating in fail-safe mode	Malfunction Item	Related DTC	Diagnosis
	CAN communication	U1000	ADP-56
Only manual functions operate normally.	CONTROL UNIT	U1010	ADP-57
	EEPROM	B2130	<u>ADP-66</u>
Only manual functions, except door mirror, operate normally.	UART communication	B2128	<u>ADP-64</u>
Only manual functions, except seat sliding, operate normally.	Seat sliding output	B2112	ADP-58
Only manual functions, except seat reclining, operate normally.	Seat reclining output	B2113	ADP-60
Only manual functions, except steering tilt, operate normally.	Steering column tilt output	B2116	ADP-62

< ECU DIAGNOSIS INFORMATION >

DTC Index

CONSULT	Tim	ing ^{*1}		Reference page	
display	Current mal- function	Previous mal- function	Item		
CAN COMM CIRCUIT [U1000]	0	1-39	CAN communication	ADP-56	
CONTROL UNIT [U1010]	0	1-39	Control unit	ADP-57	
SEAT SLIDE [B2112]	0	1-39	Seat slide motor output	ADP-58	
SEAT RECLINING [B2113]	0	1-39	Seat reclining motor output	ADP-60	
STEERING TILT [B2116]	0	1-39	Tilt motor output	ADP-62	
UART COMM [B2128]	0	1-39	UART communication	ADP-64	
EEPROM [B2130]	0	1-39	EEPROM	ADP-66	

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^{• 0:} Current malfunction is present

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

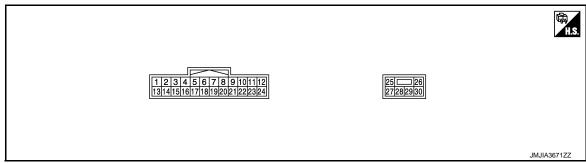
AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

Reference Value

TERMINAL LAYOUT



PHYSICAL VALUES

Terminal No. (wire color)		Description		Condition		Voltage (V)
+	-	Signal name	Input/ Output	Condition		(Approx.)
1	Ground	Tile quitele un aignal	Input	Tilt switch	Operate (up)	0
(Y)	Ground	Tilt switch up signal			Other than the above	5
2	Ground	Changeover switch RH	lmmt	Changeover	RH	0
(GR/B)	Ground	signal	Input	switch position	Neutral or LH	5
3	Ground	d Mirror switch up signal	Input	Mirror switch	Operated (up)	0
(Y/G)	Ground				Other than the above	5
4	0	Mirror switch left signal	Input	Mirror switch	Operated (left)	0
(GR/R)	Ground				Other than the above	5
5 (R/B)	Ground	Door mirror sensor (pas- senger side) up/down signal	Input	Door mirror RH position		Change between 3.4 (close to peak) 0.6 (close to valley)
6 (L/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	Ground	Telescopic switch for-	lanut	Telescopic	Operate (forward)	0
(P)	Ground	ward signal	Input	switch	Other than the above	5
8 (LG/R)	Ground	UART communication (TX/RX)	Output	Ignition switch ON		10msec/div

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

Terminal No. (wire color)		Description		Cor	ndition	Voltage (V) (Approx.)
+	-	Signal name	Input/ Output	Contanton		
10	Ground	Door mirror motor (passenger side) up output signal	Output	Door mirror RH	Operate (up)	12
(L/O)	Oround				Other than the above	0
11	Ground	Door mirror motor (pas- senger side) left output signal	Output	Door mirror RH	Operate (left)	12
(Y/B)	0.00				Other than the above	0
12	Ground	Door mirror motor (driver side) down/right output signal	Output	Door mirror (LH)	Operate (down/right)	12
(SB)					Other than the above	0
13	Ground	Tilt switch down signal	Input	Tilt switch	Operate (down)	0
(LG)			•		Other than the above	5
14 (BR)	Ground	Changeover switch LH signal	Input	Changeover switch position	LH Neutral or RH	5
15	Ground	Mirror switch down sig- nal	Input	Mirror switch	Operate (down)	0
(O/L)					Other than the above	5
16	Ground	Mirror switch right signal	Input	Mirror switch	Operate (right)	0
(V/W)					Other than the above	5
17 (L/R)	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 (G/W)	Ground	Door mirror sensor (driver side) left/right signal	Input	Door mirror LH po	osition	Change between 0.6 (close to left edge) 3.4 (close to right edge)
19	Ground	Telescopic switch back-	Input	Telescopic	Operate (backward)	0
(G)	Ground	ward signal	mpat	Switch Other than the above		5
20 (Y)	Ground	Sensor ground	_	_ _		0
21 (W/L)	Ground	Door mirror motor sensor power supply	Input			5
22	Ground	Door mirror motor (pas- senger side) down/right output signal	Output	Door mirror (RH)	Operate (down/right)	12
(V)					Other than the above	0
23	Ground	und Door mirror motor (driver side) up output signal	Output	Door mirror (LH)	Operate (up)	12
(L/W)					Other than the above	0

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AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< ECU DIAGNOSIS INFORMATION >

<u> </u>	101100	IS INFORMATION >				
Terminal No. (wire color)		Description		Condition		Voltage (V)
+	-	Signal name	Input/ Output	Condition		(Approx.)
24	Ground	Door mirror motor (driver side) left output signal	Output	Door mirror (LH)	Operate (left)	12
(BR/Y)					Other than the above	0
25 (W/R)	Ground	Battery power supply	Input	_		Battery voltage
26	Ground	Telescopic motor back- ward output signal	Output	Steering tele- scopic	Operate (backward)	12
(L)					Other than the above	0
27 (P)	Ground	Tilt & telescopic sensor power supply	Output	_		12
28	Ground	Tilt motor down output signal	Output	Steering tilt	Operate (down)	12
(G)					Other than the above	0
	Ground	Tilt motor up output sig- nal	Output	Steering tilt	Operate (up)	12
29 (W/B)					Other than the above	0
		Telescopic motor forward output signal		Steering tele- scopic	Operate (forward)	12
					Other than the above	0
30 (B)	Ground	Ground	_	_		0

BCM (BODY CONTROL MODULE)

< ECU DIAGNOSIS INFORMATION >

BCM (BODY CONTROL MODULE)

List of ECU Reference

ECU	Reference
	BCS-35, "Reference Value"
DOM	BCS-56, "Fail-safe"
BCM	BCS-57, "DTC Inspection Priority Chart"
	BCS-58, "DTC_Index"

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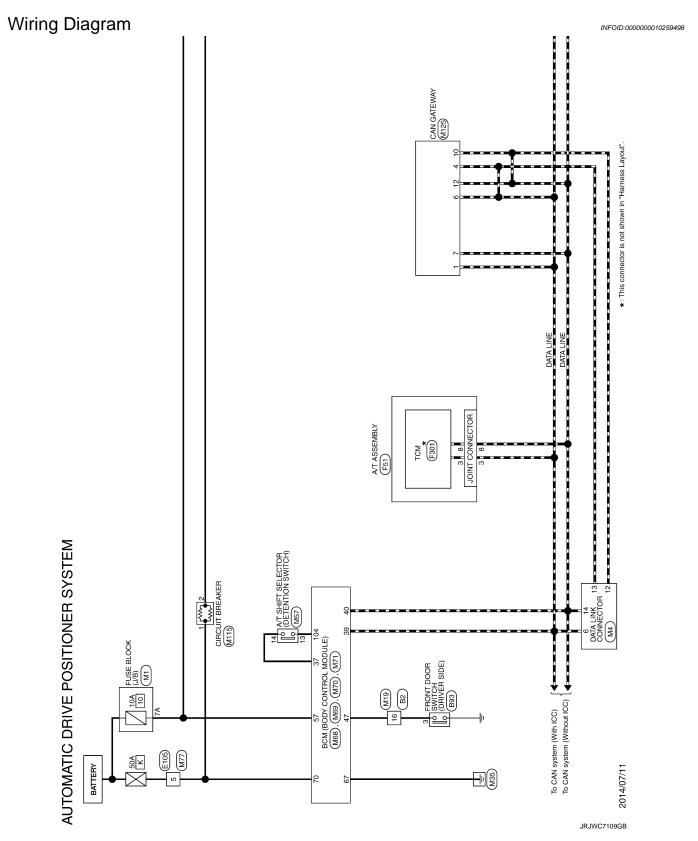
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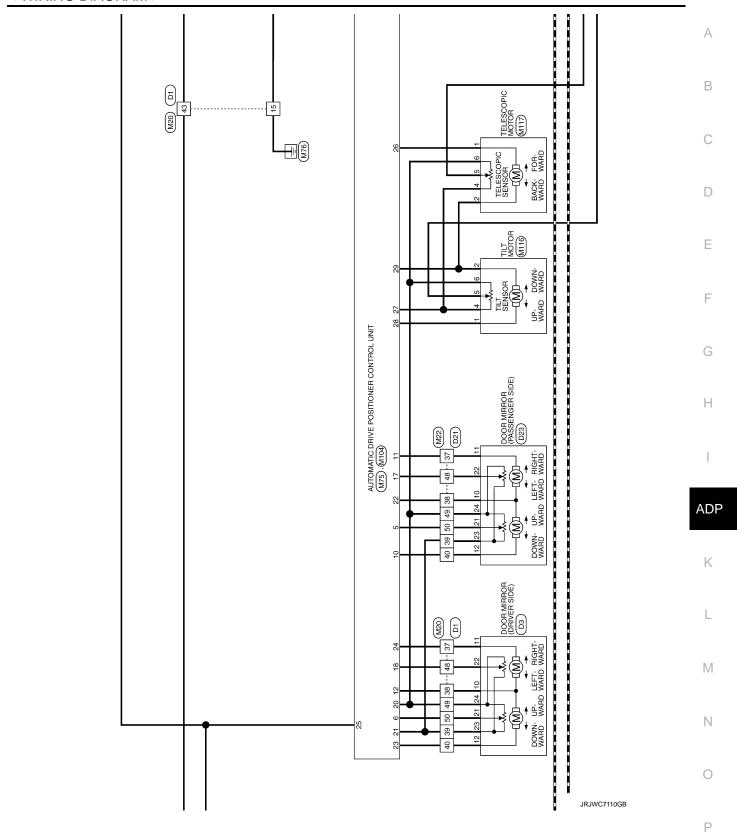
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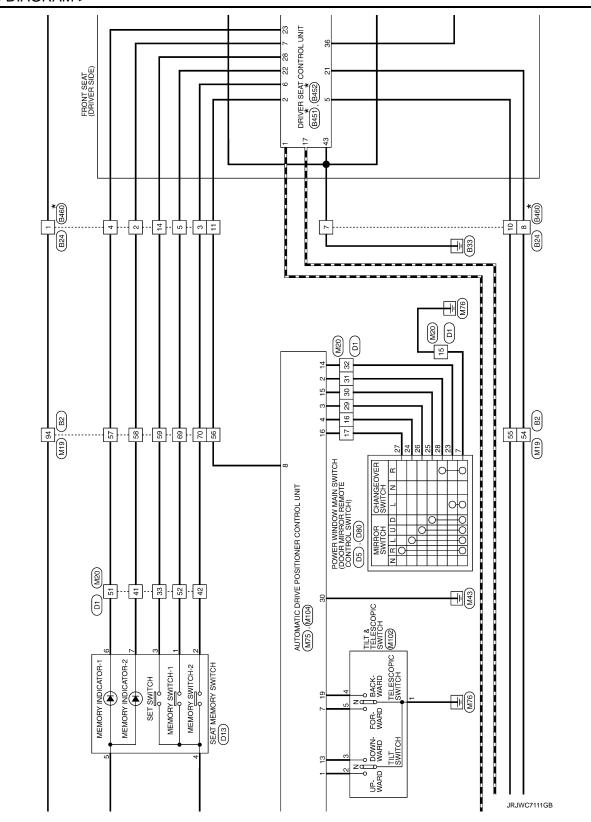
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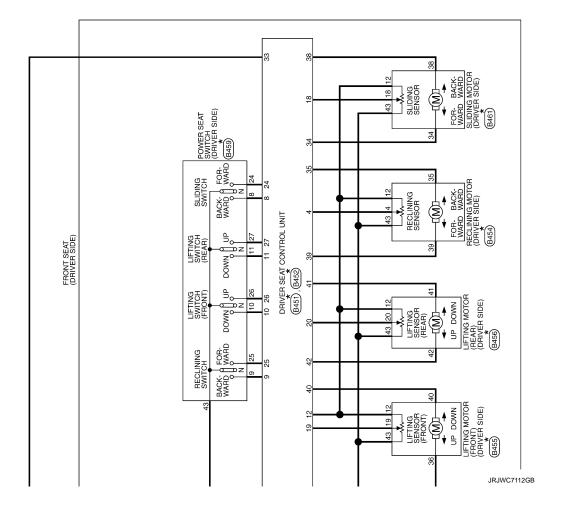
WIRING DIAGRAM

AUTOMATIC DRIVE POSITIONER SYSTEM









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AUTO	AUTOMATIC DRIVE POSITIONER SYSTEM	YSTE	ΞM						
Connector No.	No. B2		H	M.	Connector No.	B24	Connector No.		B451
Connector Name	Name WIRE TO WIRE		44 LG	LG/B -	Connector Name	WIRE TO WIRE	Connect	Connector Name	DRIVER SEAT CONTROL UNIT
Connector Type	Type TH80MW-CS16-TM4	Ш	Н	BR -	Connector Type	NS16FW-CS	Connector Type		TH32FW-NH
Q.	0 0		+	GR -	1		q		
李			51 50 W	M/R	李		事		
S. F.	2 7 (S)	<u> </u>	t		H.S.	7 6 5 4 0 3 2 1	SH	-	7 2 2
	2 0 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	L	53 0,	- = - = - = - = - = - = - = - = - = - =		16 15 14 13 12 11 10 9 8			1 0 0 7 0 0 10 11
		Ш	Н	- o/5		A		_,	1/1 02 13 27 27 27 27 27 28 29 27 12 12 12 12 12 12 12
	33 E	Ш	H	R/B -					
			┪	LG/R -					
Terminal Color Of	Solor Of Signal Name [Specification]		57 GR	GR/R -	Terminal Color Of	Of Signal Name [Specification]	Terminal	Color Of	Signal Name [Specification]
$^{+}$		1	t	mo/4	†		-	2 2	1 1440
4 67		<u> </u>	$^{+}$	- 8	2 4//6	-	~	2	UABT (TX/RX)
t			╁		3 P/L		4	R/L	PULSE (RECLINER)
9	- 1	_	L	1	4 GR/R	-	co.	R/B	TELESCOPIC SENSOR
7	>				5 LG/B		9	R/W	ADDRESS 2
6	- B	L	H	- 5	7 B	ı	7	R/G	IND-2
11	W/B -		67 SHIELD	ELD -	0/D 8	_	8	SB	SLIDE SW (BACKWARD)
12	BR -	Ш	9 FG		7 6	-	6	٦	RECLINER SW (BACKWARD)
13	G/R -		70 P,	P/L -	10 R/B	-	10	L/B	FRONT LIFTER SW (DOWNWARD)
14	B/Y		71		11 LG/R	-	Ξ	\ 	REAR LIFTER SW (DOWNWARD)
15	W/R -		\dashv		12 P	1	12	L/R	SENSOR POWER SUPPLY
16	GR/R -		77 Y.	Y/B -	13 L	-	17	>	CAN-L
1	G/W -		78 Y/L	٦ -	+	1	18	B/W	PULSE (SLIDE)
\dashv	>	_	\dashv		15 BR	1	19	B/R	PULSE (FRONT LIFTER)
+			+	W/R -			20	B/L	PULSE (REAR LIFTER)
+	B/W -		+				21	M/B	TILT SENSOR
22			7		Connector No.	B93	22	J/M	ADDRESS 1
24			$^{+}$	0	Connector Name	FRONT DOOR SWITCH (DRIVER SIDE)	23	W/R	IND-1
67	> >		/8	¥.	H	TUOAEW-MU	76	M //	DECLINED SW (FORWARD)
t			f		and		96	α/\ \	FRONT LIFTER SW (LIDWARD)
H			╁	7/			27	1/K	REAR LIFTER SW (UPWARD)
H			91 W	-	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	R	28	5	SET SW
30			92 (B	11:3:	1			
\dashv	G/Y -		\dashv	W/R -		က			
┪	B/SB -		7 96	L/W					
Н	LG/R -		97 F						
\dashv	BR/W -		\dashv	/					
+	~		\dashv	L/W -	lar	Of Signal Name [Specification]			
\dashv	SB		100 P.	P/B -	No. Wire				
37					3 GR/R	DOOR_SW_DR			
88									
+									
40	D/W								
-									

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MOTOR (ORIVER SIDE) MATOR (Specification) MATOR (Specification		В
SLDING 6098-030 [16] 44 [14] [16] 44 [14] [16] 44 [14] [16] 44 [14] [16] 44 [14] [16] 44 [14] [16] 44 [14] [16] [16] 44 [14] [16] [16] [16] [16] [16] [16] [16] [16		С
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Connector Conn		Н
Signal Name [Specification] Sign		I
1283-10 M DHT 12		ADP
Connector Name Conn		K
Ion I		L
AUTOMATIC DRIVE POSITIONER Someoctor Name B452		M
		Ν
AUTOMAT Connector Name Connector Name Connector Type Terminal Color Of No. Wree 33 CR 36 CR 38 CR 41 V 42 P.VB 43 LG Connector Name Connector Nam		0
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		Р

Revision: 2014 October ADP-41 2015 QX80

Connector No. D21	1 e	Connector Type TH40FW-CS15		15 14 13 12 11 10 9 1	5 16 B		Terminal Color Of	No.	5 3		۴	6 L/R -	+	- A/D 6	+	= 8/4	J 62	H	H	$^{+}$	- B/W	20 P	22 Y/R –	23 LG/B -	24 \(\cappa_0\)	┪	56	27 (36	37 Y/B –	+	39	40			l	- 46 W	M LG
Connector Name POWER WINDOW MAIN SWITCH		Connector Type NS16FW-CS	B	13 4 1 5 6	9 10 11 12 13 15 16		Terminal Color Of	No. Wire Signal Name Lypecification	3 G/R –	¥ (C		7 B -	+	+	+	12 G/W	+	H		-		Connector Name SEAT MEMORY SWITCH	Connector Type A08FW	Ą		K		3 5 6 7 2 1 4	╢		-	la O		1 LG/B -	2 P/L –	3 V/W		- B
	DOOR MIRROR (DRIVER SIDE)	TH24MW-NH		765 32	817161514	F 101 01		mcation		MIMO	SUPPLY				T						T																	
AUTOMATIC DRIVE POSITIONER SYSTEM 13 Y	tor Name	Connector Type TH241		H.S. (17/11/10) 9 8 7 6	2423222120191817161514		Terminal Color Of	No. Wire Signal Name [Specification]	2 BR/W -	= @	$\frac{1}{1}$	7 L	\forall	+	- SB	11 BR/Y	M d	15 B/Y -	Ħ	SHELD	18 B SIDE CAMERA LH GND	+	L.Y.	Н	23 W/L -	24 Y –												

JRJWC7115GB

Connector No. F51 Connector Type RK (0FG	18.2 1.0	1 CAN + H 4 SB	Terminal Color Of Signal Name Specification	
13 P/8	19 V/V			
STEM Connector No. D80 Connector Name POWER WINDOW MAIN SWITCH Connector Type ITHI2FW-NH	Terminal Color Of Signal Name [Specification] Terminal Color Of Signal Name [Specification]	22 V C C C C C C C C C C C C C C C C C C	Terminal Color Of Signal Name [Specification] 1.	A
AUTOMATIC DRIVE POSITIONER SYSTEM	Солиестог Туре ТТ:24MW-NH (12 111 10 9 8 7 6 5 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Terminal Color Of Nive Signal Name (Specification)] 2 R/W SIDE CAMERA LH COMM 5 G G	 	
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AUTOMATIC DRIVE POSITIONER SYSTEM	STEM									
Connector No. M1	Connector No.		M19	44	LG/B		Conne	Connector No.	M20	
Connector Name FUSE BLOCK (J/B)	Connector Name		WIRE TO WIRE	46	В		Conne	Connector Name	WIRE TO WIRE	
Т		T		÷	20		1			
Connector Type NS06FW-M2	Connector Type	7	TH80FW-CS16-TM4	49	+	1	Conne	Connector Type	TH40MW-CS15	
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3A 2A1A	ES.			20 03	200		7	E.S.	1 2 3 4 5 6 7 8 8 7 0 12 13 14 15 1	
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8A /Alon 3n 4h			2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5 4	t				27/28/28/30/31/32/33/38/38 47/48/49/50/51/52/53/54/55	
				6 8	$^{+}$					
				3 3	t					
		ŀ		â	H/H2					
Terminal Color Of Signal Name [Specification]	la l	Color Of	Signal Name [Specification]	28	$^{+}$		Termi	Terminal Color Of	Signal Name [Specification]	
+	NO.	a la		SC.	1		ğ	D I		
	2	1	1	8	<u>~</u>			>	1	
2A GR –	ဇ	æ	I	63	+	1	2	>	1	
-	2	R/W	_	64	œ	1	3	>	_	
4A Y/G -	9	_	1	65	>	-	4	>	-	
5A V -	7	>	-	99	ŋ	•	2	LG/R	_	
5A L/W -	6	9	1	67	SHIELD	-	9	BR/W	1	
7A LG -	11	M/B	-	69	ICG/B	-	8	۸	-	
Н	12	BR	_	70	P/L	-	6	9	_	
	13	G/R	-	7.1	٦	-	10	٦	-	
	14	B/Y	-	72	œ	-	12	B/Y	-	
Connector No. M4	15	W/R	-	77	Y/B		13	Υ	-	
CONTRACTOR DATA LIMIT CONNICOTOR	16	GR/R	-	78	J/X	-	14	ď		
CONTRACTOR	18	G/W	-	79	Н	1	15	В	-	
Connector Type BD16FW	19	>	1	80	\dashv	1	16	GR/R	-	
	20	D/W	1	81	Y/L		17	M//N	-	
[5]	21	B/W	ı	84	ς/	1	18	В	ı	
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11 01 71 11	24	ŋ	I	87	W/R	1	20	۵	I	
3 4 5 6 7 8	25	0	1	88	0		21	SHIELD	-	
7	26	>	1	88	+	1	22	>	1	
	27	٦	1	90	GR/L	1	23	P/B	-	
	28	Υ	-	91	W	1	24	N0	1	
a	59	٦	1	95	ŋ	1	25	BR/W	1	
No. Wire	30	œ	_	94	W/R	-	26	W/R	-	
	31	G/Y	1	96	L/W	1	27	>	-	
4 B -	32	B/SB	-	97	œ		28	D/M		
5 B -	33	LG/R	-	98		-	29	5/X	=	
-	34	BR/W	_	66	N/I	-	30	٦/٥		
RS	32	GR/R	1	100	B/B		31	GR/B	1	
8 GR –	36	SB	-				32	BR	-	
	37	97	1				33	M//	1	
12 R –	38	٦	1				34	ď	1	
4	39	۵	1				35	>	1	
14 P -	40	D/W	1				36	0/5	1	
J	14	0	1				37	BR∕	1	
	43	M//N	1				38	SB	-	

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< WIRING DIAGRAM >

Connector No. M69	
Commetter No. M68 Commetter Name BDM (BODY CONTROL MODULE) Commetter Name BDM (BODY CONTROL MODULE) Commetter Type TH40FB-NH Commetter Type TH40FB-NH Commetter Type TH40FB-NH Commetter Type Commetter Name Commetter	
SYSTEM 22	
AUTOMATIC DRIVE POSITIONER SY 40	

Revision: 2014 October ADP-45 2015 QX80

AUTC	MAT	AUTOMATIC DRIVE POSITIONER SYSTEM	STEM								
99	œ	ALL DOOR LOCK OUTPUT	101	M/B	IGN PWR SPLY 2	Connector No	١.	M77	24	GR/L	1
99	^	DR DOOR, FUEL LID UNLK OUTPUT	102	BR	SHIFT N/P			TO MIDE	91	BR	-
49	В	GND	104	R/B	A/T SHIFT SELECT PWR SPLY	Collifec		WINE TO WINE	95	M/I	-
89	>-	PW PWR SPLY (IGN)	105	7/0	STOP LAMP SW 2	Connector Type	Г	TH80FW-CS16-TM4	94	Α/Β	1
69	W	PW PWR SPLY (BAT)	106	5/X	BLWR FAN MTR RELAY CONT	ſ			92	L/R	
20	\	BAT (F/L)	109	M/7	ACC IND				97	ď	1
			110	BR	RECEIVER PWR SPLY				86	1/0	-
	Г						9	20 00 00 00 00 00 00 00 00 00 00 00 00 0	100	M/B	-
Connector No.	I	M71	L					2 E E			
Connector	· Name	Connector Name BCM (BODY CONTROL MODULE)	Conne	Connector No.	M75						
Connector Type	Т	TH40EW-NH	Conne	Connector Name	AUTOMATIC DRIVE POSITIONER CONTROL UNIT				Connec	Connector No.	MIOZ
	1		Conne	Connector Type	TH24FW-NH	Termina	Color Of		Connec	Connector Name	TILT & TELESCOPIC SWITCH
4						Ñ.		Signal Name [Specification]	Connec	Connector Type	TK06FGY
, T			13	_		-	W	1			
2		17.17.17.17.17.17.17.17.17.17.17.17.17.1	ŧ	<u>ا</u> د		2	M/l	-	B	_	
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					13 14 15 16 17 18 19 20 21 22 23 24	2	٨				3 4 1 5 2
						7	M/G	_			
Terminal Color Of	Color Of	Signal Name [Specification]				8	P/B	-			
No.	Wire	orginal realine Copecinication	Terminal	0	Simple Name [Spacification]	6	W/B	_			
7.1	G/R	KYLS ENT RECEIVER COMM	Ñ.	Wire	Oignal Name Lopecinication	10	ŋ	-	Termin	Terminal Color Of	Signal Name [Specification]
72	Ь	PUDDLE LAMP CONT	-	>	UPWARD	11	٦	-	No.	Wire	ognal valle [opeomoagon]
73	W	ON IND	2	GR/B	SELECT RH	12	۵	-	-	В	-
74	Y/B	TRAILER TURN SIG RH CONT	3	5/X	UPWARD	13	B/B	1	2	Υ	-
75	LG/R	DRIVER DOOR REQUEST SW	4	GR/R	LEFTWARD	14	æ	1	m	Ρ	1
9/	SB	PUSH SW	2	B/B	MIR SENS UP DOWN (RH)	15	7/0	_	4	9	-
77	J/0	TRAILER TURN SIG LH CONT	9	\sim	MIR SENS UP DOWN (LH)	16	SB	-	D.	а	-
7.8	B/B	DRIVER DOOR ANT+	7	۵	FORWARD	18	BR	=			
79	^	DRIVER DOOR ANT-	8	LG/R	RX/TX	19	Y/G	-			
80	LG/B	PASSENGER DOOR ANT+	10	0/1	MIR MTR UP (RH)	20	BR∕Y	-	Connector No.	tor No.	M104
81	Y/R	PASSENGER DOOR ANT-	Ξ	A/B	MIR MTR LEFT (RH)	21	^	-	Č	None Mense	THE LOCATION OF STREET
82	9/M	BACK DOOR ANT+	12	SB	MIR MTR DOWN RIGHT (LH)	22	_			allipa ion	ACCOMPANIO DAINE POSITIONES CONTROL ONLI
83	B/W	BACK DOOR ANT-	13	D7	DOWNWARD	23	\	1	Connec	tor Type	Connector Type NS06FW-CS
84	BR	ROOM ANT1+	14	BR	SELECT LH	24	M/I	-			
82	Υ	ROOM ANT1-	15	0/L	DOWNWARD	28	0	_	B	_	
98	W	ROOM ANT2+	16	W/W	RIGHTWARD	29	R/W	-	ŧ	,	
87	В	ROOM ANT2-	17	L/R	MIR SENS LEFT&RIGHT (RH)	30	7/0	-	Ć.	5	07 C7
88	>	LAGGAGE ROOM ANT+	18	W/9	MIR SENS LEFT&RIGHT (LH)	31	>				27 28 20 30
68	g	LAGGAGE ROOM ANT-	10	g	BACKWARD	32	GR/R	1			7 7 7 7 7 7
06	>	PUSH-BTN IGN SW ILL PWR	20	>	SENS GND	34	>	1			
91	0	LOCK IND	21	M/L	SENS POWER	35	œ	1			
95	٦	LOW SIDE PUSH LED	22	>	MIR MTR DOWN RIGHT (RH)	36	B/0	_	Terminal	al Color Of	[:
93	GR/R	I-KEY WARN BUZZER	23	N/N	MIR MTR UP (LH)	37	G/Y	_	Š	Wire	olgrial Marine [opecification]
96	BB	ACC RELAY CONT	24	BR/Y	MIR MTR LEFT (LH)	38	ŋ	1	25	W/R	UPWARD
6	R/W	STARTER RELAY CONT				40	SB	-	26	٦	BACKWARD
86	0	IGN RELAY (IPDM E/R) CONT				41	W/R	-	27	Д	STRG_SENS_VCC
66	۳	IGN RELAY (F/B) CONT				45	œ	1	28	g	DOWNWARD
100	P/L	PASSENGER DOOR REQUEST SW				43	>	1	29	M/B	UPWARD/FRONTWARD

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	Connector No. M117	Connector Name TELESCOPIC MOTOR	Connector Type NS06FW-CS		1 2 1	654	Terminal Color Of Signal Name [Specification] No. Wire	-	2 W/B -	4 P -	5 R/B -	- A 9	Connector No. M125	Connector Name CAN GATEWAY	Connector Type TH12FW-NH	H.S. 1 3 4 5 6 7 9 10 11 12	Terminal Color Of Signal Name [Specification]	1 CAN-H	3 Y BATTERY	7	5 B GND	6 L CAN-H	7 P CAN-L	9 GR IGNITION	я	В	12
TOMATIC DRIVE P	30 B GND		Connector No. M115	Connector Name CIRCUIT BREAKER	Connector Type M02FW-P-LC	H.S.	7		Terminal Color Of	No. Wire Signal Marine Especimoauori.	1 Y -	2 W/R -	Connector No. M116	Connector Name TILT MOTOR	Connector Type NS06FW-CS	H.S. 2 1 1 6 5 4 1	Terminal Color Of Signal Name [Specification] No. Wire	1 6	2 W/B -		5 G/0 -	-					

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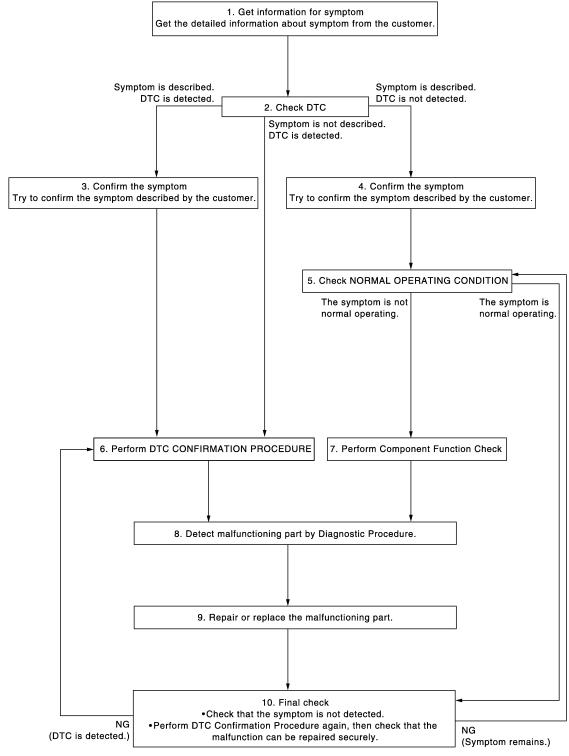
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BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

OVERALL SEQUENCE



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DIAGNOSIS AND REPAIR WORK FLOW < BASIC INSPECTION > $1.\mathsf{GET}$ INFORMATION FOR SYMPTOM Α Get the detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurred). В >> GO TO 2. 2.CHECK DTC WITH AUTOMATIC DRIVE POSITIONER SYSTEM Check "Self Diagnostic Result" using CONSULT. Refer to ADP-31, "DTC Index" Is any symptom described and any DTC is displayed? Symptom is described, DTC is displayed.>>GO TO 3. D Symptom is not described, DTC is displayed.>>GO TO 6. Symptom is described, DTC is not displayed.>>GO TO 4. 3.CONFIRM THE SYMPTOM Е 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. CHECK NORMAL OPERATING CONDITION Н Check normal operating condition. Refer to ADP-134, "Description". Is the incident normal operation? >> INSPECTION END YES NO >> GO TO 7. $\mathsf{6}.$ PERFORM DTC CONFIRMATION PROCEDURE ADP Perform the confirmation procedure for the detected DTC. Is the DTC displayed? YES >> GO TO 8. NO >> Check intermittent incident. Refer to GI-43, "Intermittent Incident". 7. PERFORM COMPONENT FUNCTION CHECK Perform the component function check for the isolated malfunctioning point. >> GO TO 8. M

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.

$\mathbf{9}.$ 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.

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Are all malfunctions corrected?

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

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

< BASIC INSPECTION >

INSPECTION AND ADJUSTMENT

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Description INFOID:0000000010259500

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

Function	Condition	Procedure
Memory (Seat, steering, mirror)	Erased	Perform storing
For the State of	011	Perform initialization
Entry/exit assist	ON	Set slide amount*1
Intelligent Key interlegic	Freed	Perform initialization
Intelligent Key interlock	Erased	Perform storing

^{*1:} Default value is 40 mm.

NOTE:

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

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Special Repair Requirement INFOID:0000000010259501

1.SYSTEM INITIALIZATION

Perform system initialization. Refer to ADP-52, "SYSTEM INITIALIZATION: Special Repair Requirement".

>> GO TO 2.

2.MEMORY STORAGE

Perform memory storage. Refer to ADP-53, "MEMORY STORING: Special Repair Requirement".

>> GO TO 3.

3.INTELLIGENT KEY INTERLOCK STORAGE

Perform Intelligent Key interlock storage. Refer to ADP-54, "INTELLIGENT KEY INTERLOCK STORING: Special Repair Requirement".

>> GO TO 4.

f 4.SYSTEM SETTING

Perform system setting. Refer to ADP-55, "SYSTEM SETTING: Special Repair Requirement".

>> END

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description

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 Perform initialization ON Entry/exit assist Set slide amount*1

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INFOID:0000000010259502

< BASIC INSPECTION >

Function	Condition	Procedure
Intelligent Key interlock	Erased	Perform initialization
intelligent Ney Interlock	Liaseu	Perform storing

^{*1:} Default value is 40 mm.

NOTE:

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

ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement

1.SYSTEM INITIALIZATION

Perform system initialization. Refer to ADP-52, "SYSTEM INITIALIZATION: Special Repair Requirement".

>> GO TO 2.

2.MEMORY STORAGE

Perform memory storage. Refer to ADP-53, "MEMORY STORING: Special Repair Requirement".

>> GO TO 3.

3.INTELLIGENT KEY INTERLOCK STORAGE

Perform Intelligent Key interlock storage. Refer to <u>ADP-54</u>, "INTELLIGENT KEY INTERLOCK STORING: <u>Special Repair Requirement</u>".

>> GO TO 4.

4. SYSTEM SETTING

Perform system setting. Refer to ADP-55, "SYSTEM SETTING: Special Repair Requirement".

>> END

SYSTEM INITIALIZATION

SYSTEM INITIALIZATION: Description

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

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

SYSTEM INITIALIZATION: Special Repair Requirement

INFOID:0000000010259505

INFOID:0000000010259504

INITIALIZATION PROCEDURE

CHOOSE METHOD

There are two initialization methods.

Which method do you use?

With door switch>>GO TO 2.

With vehicle speed>>GO TO 4.

2. STEP A-1

Turn ignition switch from ACC to OFF position.

>> GO TO 3.

3. STEP A-2

Driver door switch is ON (open) \rightarrow OFF (close) \rightarrow ON (open).

Revision: 2014 October ADP-52 2015 QX80

< BASIC INSPECTION > Α >> END **4.** STEP B-1 Drive the vehicle at more than 25 km/h (16 MPH). В >> END MEMORY STORING **MEMORY STORING: Description** INFOID:0000000010259506 D 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. MEMORY STORING: Special Repair Requirement Е Memory Storage Procedure Two positions for the driver seat, steering column and outside mirror can be stored for memory operation by following procedure. **1.**STEP 1 Check the following conditions. Ignirion switch: ON A/T shift selector: P position Н >> GO TO 2. 2.STEP $_{2}$ Adjust driver seat, steering column and outside mirror position manually. >> GO TO 3. ADP **3.**STEP 3 Push set switch. NOTE: Memory indicator for which driver seat position is already retained in memory is illuminated for 5 sec- Memory indicator for which driver seat position is not retained in memory is illuminated for 0.5 second. L 2. 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. M To modify driver seat positions, memory indicator will be turned OFF for 0.5 second, then turned ON for 5 seconds. NOTE: If memory is stored in the same memory switch, the previous memory will be deleted. Ν >> GO TO 4. **4**.STEP 4 Confirm the operation of each part with memory operation. Р

Revision: 2014 October ADP-53 2015 QX80

>> END

INTELLIGENT KEY INTERLOCK STORING

< BASIC INSPECTION >

INTELLIGENT KEY INTERLOCK STORING: Description

INFOID:0000000010259508

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.

INTELLIGENT KEY INTERLOCK STORING: Special Repair Requirement INFOID-0000000102259509

Intelligent Key Interlock Storage Procedure

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: OFFInitialization: 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.

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.

>> GO TO 3.

3.STEP 3

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

>> END SYSTEM SETTING

SYSTEM SETTING : Description

INFOID:0000000010259510

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

Setting Change

×: Applicable

				л. лърноц
Item	Content	CONSULT	Set switch	Factory setting
Amount of seat sliding for entry/exit assist	The amount of seat sliding for entry/exit assist can be selected from 3 items. [40 mm/80 mm/150 mm]	х	_	40 mm
Entry/exit assist (seat)	Entry/exit assist (seat) can be selected: ON (operated) – OFF (not operated)	х	Х	ON
Entry/exit assist (steering column)	Entry/exit assist (steering column) can be selected: ON (operated) – OFF (not operated)	х	^	ON

< BASIC INSPECTION >	
SYSTEM SETTING: Special Repair Requirement	• !
1. CHOOSE METHOD	А
There are three way of setting method.	D
Which method do you choose?	В
With CONSULT>>GO TO 2.	
With set switch>>GO TO 4. 2. WITH CONSULT - STEP 1	С
	-
Select "Work support".	D
>> GO TO 3.	
3. WITH CONSULT - STEP 2	_
1. Select "EXIT SEAT SLIDE SETTING", or "EXIT TILT SETTING" then touch display to change between ON	E
and OFF EXIT SEAT SLIDE SETTING: Entry/exit assist (seat)	
- EXIT TILT SETTING: Entry/exit assist (seering column)	F
2. Select "SEAT SLIDE VOLUME SET" and touch either of "40 mm", "80 mm", or "150 mm".	
3. Then touch "OK".	G
>> END	
4. WITH SET SWITCH - STEP 1	Н
Turn ignition switch OFF.	
>> GO TO 5. 5. WITH SET SWITCH - STEP 2	ı
 Push set switch and hold for more than 10 seconds, then confirm blinking of the memory switch indicator. Entry/exit assist (seat/steering column) are ON: Memory switch indicator blink two times. Entry/exit assist (seat/steering column) are OFF: Memory switch indicator blink once. 	ADP
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ADP-55 Revision: 2014 October 2015 QX80

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description INFOID:000000010259512

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

DTC Logic

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1.STEP 1

Turn ignition switch ON and wait at least 3 seconds.

>> GO TO 2.

2.STEP 2

Check "Self diagnostic result" using CONSULT.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-56, "Diagnosis Procedure".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000010259514

Refer to LAN-21, "Trouble Diagnosis Flow Chart".

Special Repair Requirement

INFOID:0000000010259515

Refer to ADP-52, "SYSTEM INITIALIZATION: Description".

U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

U1010 CONTROL UNIT (CAN)

DTC Logic

DTC DETECTION LOGIC

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

Diagnosis Procedure

INFOID:0000000010259517

1. REPLACE DRIVER SEAT CONTROL UNIT

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

>> Replace driver seat control unit.

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B2112 SLIDING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

B2112 SLIDING MOTOR

DTC Logic

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.	 Driver seat control unit Slide motor harness is shorted

DTC CONFIRMATION PROCEDURE

1.STEP 1

Turn ignition switch ON.

>> GO TO 2.

2.STEP 2

Check "Self diagnostic result" using CONSULT.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to <u>ADP-58</u>, "<u>Diagnosis Procedure</u>".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000010259519

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON.
- 2. Check "Self diagnostic result" using CONSULT.
- Erase the DTC.
- 4. Perform DTC confirmation procedure. Refer to ADP-58, "DTC Logic".

Is the DTC displayed again?

YES >> GO TO 2.

NO >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

2.CHECK SLIDING MOTOR CIRCUIT (POWER SHORT)

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

	+)	(-)	Voltage (V) (Approx.)
Slidin	g motor		
Connector	Terminals		
B461	34	Ground	0
D40 I	38	- Ground	U

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

3.CHECK DRIVER SEAT CONTROL UNIT OUTPUT SIGNAL

- 1. Connect driver seat control unit connector.
- Check voltage between driver seat control unit harness connector and ground.

B2112 SLIDING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

	(+) Driver seat control unit		Voltage (V) (Approx.)	
Connector	Terminals		(
B452	34	Ground	0	
D432	38	Ground	U	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace driver seat control unit.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

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B2113 RECLINING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

B2113 RECLINING MOTOR

DTC Logic

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 re- clining motor output terminal for 0.1 second or more even if the reclining switch is not input.	Driver seat control unit Reclining motor harness is shorted

DTC CONFIRMATION PROCEDURE

1.STEP 1

Turn ignition switch ON.

>> GO TO 2.

2.STEP 2

Check "Self diagnostic result" using CONSULT.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to <u>ADP-60, "Diagnosis Procedure"</u>.

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000010259521

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON.
- 2. Check "Self diagnostic result" using CONSULT.
- Erase the DTC.
- 4. Perform DTC confirmation procedure. Refer to ADP-60, "DTC Logic".

Is the DTC displayed again?

YES >> GO TO 2.

NO >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

2.CHECK RECLINING MOTOR CIRCUIT (POWER SHORT)

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

(+)	(-)	Voltage (V) (Approx.)
Reclini	ng motor		
Connector	Terminals		(11 - 7
B454	35	Ground	0
D404	39	Ground	U

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

3.CHECK DRIVER SEAT CONTROL UNIT OUTPUT SIGNAL

- 1. Connect driver seat control unit connector.
- Check voltage between driver seat control unit harness connector and ground.

B2113 RECLINING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

Driver sea	(+) t control unit	(-)	Voltage (V) (Approx.)	
Connector	Terminals		(πρριολ.)	
B452	35	Ground	0	
D402	39			

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace driver seat control unit.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

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B2116 TILT MOTOR

DTC Logic

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 tilt motor output terminal for 0.1 second or more even if the tilt switch is not input.	Automatic drive positioner control unitTilt motor harness is shorted

DTC CONFIRMATION PROCEDURE

1.STEP 1

Turn ignition switch ON.

>> GO TO 2.

2.STEP 2

Check "Self diagnostic result" using CONSULT.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to <u>ADP-62</u>, "<u>Diagnosis Procedure</u>".

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000010259523

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON.
- 2. Check "Self diagnostic result" using CONSULT.
- Erase the DTC.
- 4. Perform DTC confirmation procedure. Refer to ADP-62, "DTC Logic".

Is the DTC displayed again?

YES >> GO TO 2.

NO >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

2.CHECK TILT MOTOR CIRCUIT (POWER SHORT)

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

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

3.CHECK AUTOMATIC DRIVER POSITIONER CONROL UNIT OUTPUT SIGNAL

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

B2116 TILT MOTOR

< DTC/CIRCUIT DIAGNOSIS >

	(+) Automatic drive positioner control unit		Voltage (V) (Approx.)	
Connector	Terminals		(44)	
M104	28	Ground	0	
IVI 104	29			

Is the inspection result normal?

YES >> GO TO 4.

>> Replace automatic drive positioner control unit. NO

4. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

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ADP-63 Revision: 2014 October 2015 QX80

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B2128 UART COMMUNICATION LINE

< DTC/CIRCUIT DIAGNOSIS >

B2128 UART COMMUNICATION LINE

Description INFOID:000000010259524

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

DTC DETECTION LOGIC

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

DTC CONFIRMATION PROCEDURE

1.STEP 1

Turn ignition switch ON.

>> GO TO 2.

2.PROCEDURE

Check "Self diagnostic result" using CONSULT.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to <u>ADP-64, "Diagnosis Procedure"</u>.

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000010259526

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON.
- 2. Check "Self diagnostic result" using CONSULT.
- 3. Erase the DTC.
- 4. Perform DTC confirmation procedure. Refer to ADP-62, "DTC Logic".

Is the DTC displayed again?

YES >> GO TO 2.

NO >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

2. CHECK UART COMMUNICATION LINE CONTINUITY

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

Driver seaf	Driver seat control unit		sitioner control unit	Continuity
Connector	Terminal	Connector Terminal		Continuity
B451	2	M75	8	Existed

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

B2128 UART COMMUNICATION LINE

< DTC/CIRCUIT DIAGNOSIS >

Driver seat control unit			Continuity
Connector	Terminal	Ground	Continuity
B451	2		Not existed

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

NO >> Repair or replace harness or connector.

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B2130 EEPROM

< DTC/CIRCUIT DIAGNOSIS >

B2130 EEPROM

DTC Logic

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.STEP 1

Turn ignition switch ON.

>> GO TO 2.

2.STEP 2

Check "Self diagnostic result" using CONSULT.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to <u>ADP-66, "Diagnosis Procedure"</u>.

NO >> INSPECTION END

Diagnosis Procedure

INFOID:0000000010259528

1. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Turn ignition switch ON.
- 2. Check "Self diagnostic result" using CONSULT.
- 3. Erase the DTC.
- 4. Perform DTC confirmation procedure. Refer to ADP-66, "DTC Logic".

Is the DTC displayed again?

YES >> GO TO 2.

NO >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

2. REPLACE DRIVER SEAT CONTROL UNIT

Replace driver seat control unit.

>> INSPECTION END

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

POWER SUPPLY AND GROUND CIRCUIT DRIVER SEAT CONTROL UNIT

INFOID:0000000010259529

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DRIVER SEAT CONTROL UNIT: Diagnosis Procedure

1.CHECK FUSE

Check that the following fuse and fusible link are not fusing.

Signal name	Fuse No.
Battery power supply	K (50 A)

Is the inspection result normal?

YES >> GO TO 2.

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

2.check driver seat control unit power supply

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

(+)		(-)	V I 00	
Driver seat control unit			Voltage (V) (Approx.)	
Connector	Terminals		(11 -)	
B452 33		Ground	Battery voltage	

Is the inspection result normal?

>> GO TO 3. YES

NO >> Repair or replace harness.

3.CHECK DRIVER SEAT CONTROL UNIT GROUND CIRCUIT

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

Driver seat control unit			Continuity
Connector	Terminal	Ground	Continuity
B452	43		Existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

DRIVER SEAT CONTROL UNIT: Special Repair Requirement

INFOID:0000000010259530

1.PERFORM ADDITIONAL SERVICE

Perform additional service when removing battery negative terminal.

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>> Refer to ADP-51, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMI-NAL: Description".

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

AUTOMATIC DRIVE POSITIONER CONTROL UNIT: Diagnosis Procedure

INFOID:0000000010259531

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NOTE:

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

1.CHECK FUSE

Check that the following fuse and fusible link are not fusing.

ADP-67 Revision: 2014 October 2015 QX80

ADP

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

Signal name	Fuse No.
Battery power supply	K (50 A)

Is the inspection result normal?

YES >> GO TO 2.

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

2.CHECK AUTOMATIC DRIVE POSITIONER CONTROL UNIT 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.

(+) Automatic drive positioner control unit		(-)	Voltage (V) (Approx.)
Connector	Terminals		(11 - 7
M104	25	Ground	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK AUTOMATIC DRIVE POSITIONER CONTROL UNIT GROUND CIRCUIT

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

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

AUTOMATIC DRIVE POSITIONER CONTROL UNIT: Special Repair Requirement

INFOID:0000000010259532

1.PERFORM ADDITIONAL SERVICE

Perform additional service when removing battery negative terminal.

>> Refer to <u>ADP-51</u>, "<u>ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Description</u>".

< DTC/CIRCUIT DIAGNOSIS >

SLIDING SWITCH

Component Function Check

INFOID:0000000010259533

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1. CHECK FUNCTION

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

Monitor item	Condition		Status
SLIDE SW-FR	Sliding switch (forward)	Operate	ON
SLIDE SW-I K	Silding Switch (lorward)	Release	OFF
SI IDE SW.PP	LIDE SW-RR Sliding switch (backward)	Operate	ON
SLIDE SWINK		Release	OFF

Is the indication normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to <u>ADP-69</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000010259534

1. CHECK SLIDING SWITCH INPUT SIGNAL

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

(+) Power seat switch		()	Voltage (V)
Connector	Terminals	(-)	Voltage (V) (Approx.)
B459	8	- Ground	12
D439	24		12

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2. CHECK SLIDING SWITCH CIRCUIT

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

Driver seat control unit		Power seat switch		Continuity	
Connector	Terminal	Connector Terminal		Continuity	
R/151	8	B459	8	Existed	
B451	24	D400	24		

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

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

Is the inspection result normal?

YES >> Replace driver seat control unit.

SLIDING SWITCH

< DTC/CIRCUIT DIAGNOSIS >

NO >> Repair or replace harness or connector.

3. CHECK SLIDING SWITCH

Refer to ADP-70, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace power seat switch.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000010259535

1. CHECK SLIDING SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect power seat switch (sliding switch) connector.
- 3. Check continuity between power seat switch (sliding switch) terminals.

Power seat switch (Sliding switch)		Condition		Continuity
Terminal				
8	43	Sliding switch (backward)	Operate	Existed
			Release	Not existed
24		Sliding switch (forward)	Operate	Existed
			Release	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch.

RECLINING SWITCH

Component Function Check

INFOID:0000000010259536

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1. CHECK FUNCTION

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

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

Is the indication normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to ADP-71, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000010259537

1. CHECK RECLINING SWITCH INPUT SIGNAL

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

(+) Power seat switch Connector Terminals		(-)	Voltage (V) (Approx.)
			(Approx.)
B459	9	Ground	12
D439	25	Ground	12

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK RECLINING SWITCH CIRCUIT

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

Driver seat control unit		Power seat switch		Continuity
Connector	Terminal	Connector Terminal		Continuity
B451	9	B459	9	Existed
D -1 31	25	D-100	25	LAIGIGU

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

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

Is the inspection result normal?

>> Replace driver seat control unit.

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RECLINING SWITCH

< DTC/CIRCUIT DIAGNOSIS >

NO >> Repair or replace harness or connector.

3. CHECK RECLINING SWITCH

Refer to ADP-72, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace power seat switch.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000010259538

1. CHECK RECLINING SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect power seat switch (reclining switch) connector.
- 3. Check continuity between power seat switch (reclining switch) terminals.

Power seat switch (Reclining switch)		Condition		Continuity
Terminal				
9	43	Reclining switch (backward)	Operate	Existed
			Release	Not existed
25	43	Reclining switch (forward)	Operate	Existed
			Release	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch.

LIFTING SWITCH (FRONT)

< DTC/CIRCUIT DIAGNOSIS >

LIFTING SWITCH (FRONT)

Component Function Check

INFOID:0000000010259539

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1. CHECK FUNCTION

- Select "LIFT FR SW-UP", "LIFT FR SW-DN" in "Data monitor" mode using CONSULT.
- Check lifting switch (front) signal under the following conditions.

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

Is the indication normal?

YES >> INSPECTION END

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

Diagnosis Procedure

INFOID:0000000010259540

1. CHECK LIFTING SWITCH (FRONT) INPUT SIGNAL

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

(+) Power seat switch		(-)	Voltage (V) (Approx.)
Connector			
B459	10	Ground	12
	26	Ground	12

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.check lifting switch (front) circuit

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

Driver seat	control unit	Power se	eat switch	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B451	10	B459	10	Existed
D 4 31	26	D400	26	LXISIEU

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

Driver seat control unit			Continuity
Connector	Terminal	Ground	Continuity
B451	10	Giouna	Not existed
	26	1	Not existed

Is the inspection result normal?

>> Replace driver seat control unit.

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LIFTING SWITCH (FRONT)

< DTC/CIRCUIT DIAGNOSIS >

NO >> Repair or replace harness or connector.

3.CHECK LIFTING SWITCH (FRONT)

Refer to ADP-74, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace power seat switch.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000010259541

1. CHECK LIFTING SWITCH (FRONT)

- 1. Turn ignition switch OFF.
- 2. Disconnect power seat switch (lifting switch front) connector.
- 3. Check continuity between power seat switch (lifting switch front) terminals.

Power seat switch (lifting switch front)		Condition		Continuity
Terr	ninal	Condition		Continuity
10		Lifting switch front (down)	Operate	Existed
10	43	Litting Switch Horit (down)	Release	Not existed
26	43	Lifting switch front (up)	Operate	Existed
		Litting Switch from (up)	Release	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch.

< DTC/CIRCUIT DIAGNOSIS >

LIFTING SWITCH (REAR)

Component Function Check

1. CHECK FUNCTION

- Select "LIFT RR SW-UP", "LIFT RR SW-DN" in "Data monitor" mode using CONSULT.
- Check lifting switch (rear) signal under the following conditions.

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

Is the indication normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to ADP-75, "Diagnosis Procedure".

Diagnosis Procedure

1. CHECK LIFTING SWITCH (REAR) INPUT SIGNAL

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

(+) Power seat switch		(-)	Voltage (V) (Approx.)
Connector	Terminals		(, ,FP,0,VI)
B459	11	Ground	12
D409	27	Giouna	12

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK LIFTING SWITCH (REAR) CIRCUIT

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

Driver seat	control unit	Power se	eat switch	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B451	11	B459	11	Existed
D401	27	5400	27	LAIGIGU

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

Driver seat control unit			Continuity	
Connector	Terminal	Ground	Continuity	
B451	11	Giouna	Not existed	
	27	_	Not existed	

Is the inspection result normal?

>> Replace driver seat control unit.

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LIFTING SWITCH (REAR)

< DTC/CIRCUIT DIAGNOSIS >

NO >> Repair or replace harness or connector.

$3. {\sf CHECK\ LIFTING\ SWITCH\ (REAR)}$

Refer to ADP-76, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace power seat switch.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000010259544

1. CHECK LIFTING SWITCH (REAR)

- 1. Turn ignition switch OFF.
- 2. Disconnect power seat switch (lifting switch rear) connector.
- 3. Check continuity between power seat switch (lifting switch rear) terminals.

Power seat switch	Power seat switch (lifting switch rear)		Condition		
Term	inal	Condition		Continuity	
11		Lifting switch rear (down) -	Operate	Existed	
11	43		Release	Not existed	
27	43	Lifting switch rear (up)	Operate	Existed	
		Litting Switch rear (up)	Release	Not existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch.

TILT SWITCH

Component Function Check

INFOID:0000000010259545

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1. CHECK FUNCTION

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

Monitor item		Condition	
TILT SW-UP Tilt switch (u	Tilt switch (up)	Operate	ON
	The Switch (up)	Release	OFF
TILT SW-DOWN Tilt switch (d	Tilt quitch (down)	Operate	ON
	Till Switch (down)	Release	OFF

Is the indication normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to ADP-77, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000010259546

1. CHECK TILT SWITCH INPUT SIGNAL

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

Tilt & teles	(+) Tilt & telescopic switch		Voltage (V) (Approx.)
Connector	Terminals		(/ (pprox.)
M102	2	Ground	5
IVITOZ	3	Ground	3

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK TILT SWITCH CIRCUIT

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

Automatic drive po	sitioner control unit	Tilt & telescopic switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M75	1	M102	2	Existed
IVI7 3	13	WITOZ	3	LXISIEU

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

Automatic drive positioner control unit			Continuity
Connector	Terminal	Ground	Continuity
M75	1	Giouna	Not existed
IVI73	13		INOL EXISTED

Is the inspection result normal?

>> Replace automatic drive positioner control unit.

ADP-77 Revision: 2014 October 2015 QX80

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TILT SWITCH

< DTC/CIRCUIT DIAGNOSIS >

NO >> Repair or replace harness or connector.

3. CHECK TILT SWITCH

Refer to ADP-78, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace tilt & telescopic switch.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000010259547

1. CHECK TILT SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect tilt & telescopic switch connector.
- 3. Check continuity between tilt & telescopic switch terminals.

Tilt switch Terminal		Condition		Continuity
2		Tilt awitch (upword)	Operate	Existed
2	4	Tilt switch (upward)	Release	Not existed
3	I I	Tilt switch (downward)	Operate	Existed
		The Switch (downward)	Release	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace tilt & telescopic switch.

TELESCOPIC SWITCH

Component Function Check

INFOID:0000000010259548

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1. CHECK FUNCTION

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

Monitor item	Condition		Status
TELESCO SW-FR	Telescopic switch (forward)	Operate	ON
TELESCO SW-I K	relescopic switch (lorward)	Release	OFF
TELESCO SW-RR	Talagagaia quitab (bagkuard)	Operate	ON
TELESCO SW-RR Telescopic switch (backward)		Release	OFF

Is the indication normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to ADP-79, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000010259549

1. CHECK TELESCOPIC SWITCH INPUT SIGNAL

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

(+) Tilt & telescopic switch		(-)	Voltage (V) (Approx.)
Connector	Terminals		(, 44, 2, 1)
M102	5 4	Ground	5
	7		

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK TELESCOPIC SWITCH CIRCUIT

- 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 po	sitioner control unit	Tilt & telescopic switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M75	7	M102	5	Existed
IVI7 3	19	WITOZ	4	LXISIEU

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

Automatic drive positioner control unit			Continuity
Connector	Terminal	Ground	Continuity
M75	7	Ground	Not existed
	19		Not existed

Is the inspection result normal?

>> Replace automatic drive positioner control unit.

ADP-79 Revision: 2014 October 2015 QX80

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TELESCOPIC SWITCH

< DTC/CIRCUIT DIAGNOSIS >

NO >> Repair or replace harness or connector.

3.CHECK TELESCOPIC SWITCH

Refer to ADP-80, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace tilt & telescopic switch.

4. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000010259550

1. CHECK TELESCOPIC SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect tilt & telescopic switch connector.
- 3. Check continuity between tilt & telescopic switch terminals.

Telescop	oic switch	Condition		Continuity
Terminal		Condition		Continuity
5		Telescopic switch (forward)	Operate	Existed
3	1		Release	Not existed
4	1	Telescopic switch (backward)	Operate	Existed
4		relescopic switch (backward)	Release	Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace tilt & telescopic switch.

SEAT MEMORY SWITCH

< DTC/CIRCUIT DIAGNOSIS >

SEAT MEMORY SWITCH

Component Function Check

1. CHECK FUNCTION

- 1. Select "MEMORY SW 1", "MEMORY SW 2", "SET SW" in "Data monitor" mode using CONSULT.
- 2. Check seat memory switch signal under the following conditions.

Monitor item	Condition		Status
MEMORY SW 1	Manager and the d	Push	ON
WEWORT SW T	Memory switch 1	Release	OFF
MEMORY SW 2	Memory switch 2	Push	ON
WEWORT SW 2	Welliory Switch 2	Release	OFF
SET SW S	Set switch	Push	ON
		Release	OFF

Is the indication normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to <u>ADP-81, "Diagnosis Procedure"</u>.

Diagnosis Procedure

1. CHECK SEAT MEMORY SWITCH INPUT SIGNAL

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

(+)		(-)	Voltage (V) (Approx.)	
Seat memory switch				
Connector	Terminals			
	1			
D13	2	Ground	5	
	3			

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK SEAT MEMORY SWITCH CIRCUIT

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

Driver seat	control unit	Seat memory switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
	6		2	
B451	22	D13	1	Existed
	28		3	

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

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SEAT MEMORY SWITCH

< DTC/CIRCUIT DIAGNOSIS >

Driver seat control unit			Continuity
Connector	Terminal		Continuity
	6	Ground	
B451	22		Not existed
	28		

Is the inspection result normal?

YES >> Replace driver seat control unit.

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			Continuity
Connector	Terminal	Ground	Continuity
D13	4		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-82, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace seat memory switch.

5. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

Component Inspection

INFOID:0000000010259553

1. CHECK SEAT MEMORY SWITCH

- Turn ignition switch OFF.
- Disconnect seat memory switch connector.
- Check continuity between seat memory switch terminals.

Seat memory switch Terminal		Condition		Continuity			
					1		Memory switch 1
I		Memory Switch	Release	Not existed			
2	4	Memory switch 2 Set switch	Marsary avvitab 2	Marsan cuitab 0	Mamany avvitab 2	Push	Existed
2	4		Release	Not existed			
3			Push	Existed			
			Release	Not existed			

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace seat memory switch.

< DTC/CIRCUIT DIAGNOSIS >

DOOR MIRROR REMOTE CONTROL SWITCH CHANGEOVER SWITCH

INFOID:0000000010259554

CHANGEOVER SWITCH: Component Function Check

1. CHECK CHANGEOVER SWITCH FUNCTION

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

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

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Is the inspection result normal?

YES >> INSPECTION END

NO >> Refer to ADP-83, "CHANGEOVER SWITCH: Diagnosis Procedure".

CHANGEOVER SWITCH: Diagnosis Procedure

INFOID:0000000010259555

1. CHECK CHANGEOVER SWITCH INPUT SIGNAL

- Turn ignition switch OFF.
- 2. Disconnect power window main switch (door mirror remote control switch) connector.
- 3. Turn ignition switch ON.
- 4. Check voltage between power window main switch (door mirror remote control switch) harness connector and ground.

(+) Power window main switch (door mirror remote control switch)		(-)	Voltage (V) (Approx.)	
Connector	Terminal			
D80	23	Ground	5	
D00	28	Giodila	5	

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Is the inspection result normal?

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

2. CHECK CHANGEOVER SWITCH CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect automatic drive positioner control unit connector.
- Check continuity between automatic drive positioner control unit harness connector and power window main switch (door mirror remote control switch) harness connector.

Automatic drive po	ositioner control unit		w main switch ote control switch)	Continuity
Connector	Terminal	Connector	Terminal	
M75	2	D80	28	Existed
WI7 5	14	D00	23	LAISteu

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

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

Is the inspection result normal?

< DTC/CIRCUIT DIAGNOSIS >

YES >> Replace automatic drive positioner control unit.

NO >> Repair or replace harness.

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

1. Turn ignition switch OFF.

2. Check continuity between power window main switch (door mirror remote control switch) harness connector and ground.

Power window main switch (door mirror remote control switch)			Continuity	
Connector	Terminal	Ground		
D5	7		Existed	

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

CHECK CHANGEOVER SWITCH

Check door mirror remote control switch (changeover switch).

Refer to ADP-84, "CHANGEOVER SWITCH: Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace power window main switch (door mirror remote control switch).

5.CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

CHANGEOVER SWITCH: Component Inspection

INFOID:0000000010259556

1. CHECK CHANGEOVER SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect power window main switch (door mirror remote control switch) connector.
- 3. Check continuity between power window main switch (door mirror remote control switch) terminals.

(door mirror remo	w main switch ote control switch) Condit		ndition	Continuity
23			LEFT Other than the above	Existed Not existed
28	7	Changeover switch	RIGHT Other than the above	Existed Not existed

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power window main switch (door mirror remote control switch).

MIRROR SWITCH

MIRROR SWITCH: Component Function Check

INFOID:0000000010259557

1. CHECK MIRROR SWITCH FUNCTION

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

< DTC/CIRCUIT DIAGNOSIS >

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

Is the inspection result normal?

YES >> INSPECTION END

NO >> Refer to ADP-85, "MIRROR SWITCH: Diagnosis Procedure".

MIRROR SWITCH: Diagnosis Procedure

1. CHECK MIRROR SWITCH INPUT SIGNAL

- Turn ignition switch OFF.
- Disconnect power window main switch (door mirror remote control switch) connector. 2.
- Turn ignition switch ON.
- Check voltage between power window main switch (door mirror remote control switch) harness connector and ground.

(+)			Voltage (V) (Approx.)
Power window main switch (door mirror remote control switch)		(-)	
Connector	Terminal		
	27		5
D80	24	Ground	
D00	26	Ground	
	25		

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK MIRROR SWITCH CIRCUIT

- Turn ignition switch OFF.
- 2. Disconnect automatic drive positioner control unit connector.
- Check continuity between automatic drive positioner control unit harness connector and power window main switch (door mirror remote control switch) harness connector.

Automatic drive p	Automatic drive positioner control unit		Power window main switch (door mirror remote control switch)	
Connector	Terminal	Connector	Terminal	
	3	D80	26	Existed
M75	4		24	
IVI75	15		25	Existed
	16		27	

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

Automatic drive po	Automatic drive positioner control unit		Continuity
Connector	Terminal		Continuity
	3	Ground	Not existed
M75	4	Giodila	
WI75	15		
	16		

ADP-85 Revision: 2014 October 2015 QX80

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Is the inspection result normal?

YES >> Replace automatic drive positioner control unit.

NO >> Repair or replace harness.

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

1. Turn ignition switch OFF.

Check continuity between power window main switch (door mirror remote control switch) harness connector and ground.

Power window main switch (door mirror remote control switch)		Ground	Continuity
Connector	Connector Terminal		
D5 7			Existed

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK MIRROR SWITCH

Check door mirror remote control switch (mirror switch).

Refer to ADP-86, "MIRROR SWITCH: Component Inspection".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace power window main switch (door mirror remote control switch).

5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

MIRROR SWITCH: Component Inspection

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1. CHECK MIRROR SWITCH

- Turn ignition switch OFF.
- 2. Disconnect power window main switch (door mirror remote control switch) connector.
- 3. Check continuity between power window main switch (door mirror remote control switch) terminals.

Power window main switch (door mirror remote control switch)		Condition		Continuity	
Terr	Terminal				
27			RIGHT	Existed	
21				Other than the above	Not existed
24			LEFT	Existed	
24	7	Mirror switch	Other than the above	Not existed	
26	,		UP UP	UP	Existed
20	25		Other than the above	Not existed	
25			DOWN	Existed	
			Other than the above	Not existed	

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power window main switch (door mirror remote control switch).

POWER SEAT SWITCH GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

POWER SEAT SWITCH GROUND CIRCUIT

Diagnosis Procedure

INFOID:0000000010259560

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			Continuity
Connector	Connector Terminal		Continuity
B459	43		Existed

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

NO >> Repair or replace harness or connector.

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TILT &TELESCOPIC SWITCH GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

TILT &TELESCOPIC SWITCH GROUND CIRCUIT

Diagnosis Procedure

INFOID:0000000010259561

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			Continuity
Connector	Terminal	Ground	Continuity
M102	1		Existed

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

NO >> Repair or replace harness.

SLIDING SENSOR

< DTC/CIRCUIT DIAGNOSIS >

SLIDING SENSOR

Component Function Check

1. CHECK FUNCTION

- Select "SLIDE PULSE" in "Data monitor" mode using CONSULT.
- Check sliding sensor signal under the following conditions.

Monitor item	Condition		Value
	Seat sliding	Operate (forward)	Change (increase)*1
SLIDE PULSE		Operate (backward)	Change (decrease)*1
		Release	No change ^{*1}

^{*1:} 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 >> Perform diagnosis procedure. Refer to ADP-89, "Diagnosis Procedure".

Diagnosis Procedure

1. CHECK SLIDING SENSOR SIGNAL

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

	+) control unit	(-)	Condition		Signal (Reference value)
Connector	Terminals				(riorerenes value)
B451	18	Ground	Seat sliding	Operate Other than the above	10mSec/div 2V/div JMJIA0119ZZ

Is the inspection result normal?

YES >> Replace driver seat control unit.

NO >> GO TO 2.

2.CHECK SLIDING SENSOR CIRCUIT

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

Driver seat	Driver seat control unit		Sliding motor	
Connector	Terminal	Connector	Terminal	Continuity
B451	18	B461	18	Existed

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

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ADP-89 Revision: 2014 October 2015 QX80

SLIDING SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Driver seat control unit			Continuity
Connector	Terminal	Ground	Continuity
B451	18		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

3.CHECK SLIDING SENSOR POWER SUPPLY

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

(+) Sliding motor Connector Terminals		(-)	Voltage (V) (Approx.)
B461	12	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	g motor	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B451	12	B461	12	Existed

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

Driver seat control unit			Continuity
Connector Terminal		Ground	Continuity
B451	12		Not existed

Is the inspection result normal?

YES >> Replace driver seat control unit.

NO >> Repair or replace harness or connector.

5. CHECK SLIDING SENSOR GROUND CIRCUIT

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

Sliding motor			Continuity
Connector	Terminal	Ground	Continuity
B461	43		Existed

Is the inspection result normal?

YES >> Replace sliding motor.

NO >> Repair or replace harness or connector.

RECLINING SENSOR

< DTC/CIRCUIT DIAGNOSIS >

RECLINING SENSOR

Component Function Check

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1. CHECK FUNCTION

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

Monitor item	Condition		Value
		Operate (forward)	Change (increase)*1
RECLN PULSE	Seat reclining	Operate (backward)	Change (decrease)*1
		Release	No change ^{*1}

^{*1:} 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 >> Perform diagnosis procedure. Refer to <u>ADP-91, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000010259565

1. CHECK RECLINING SENSOR SIGNAL

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

	+) control unit	(-)	Condition		Signal (Reference value)
Connector	Terminals				
B451	4	Ground	Seat reclining	Operate Other than the above	10mSec/div 2V/div JMJIA0119ZZ

Is the inspection result normal?

YES >> Replace driver seat control unit.

NO >> GO TO 2.

2. CHECK RECLINING SENSOR CIRCUIT

- 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	Driver seat control unit		Reclining motor	
Connector	Terminal	Connector	Terminal	Continuity
B451	4	B454	4	Existed

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

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RECLINING SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Driver seat	control unit		Continuity
Connector	Terminal	Ground	Continuity
B451	4		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

3.CHECK RECLINING SENSOR POWER SUPPLY

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

(+) Reclining motor Connector Terminals		(-)	Voltage (V) (Approx.)	
B454	12	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.
- Check continuity between driver seat control unit harness connector and reclining motor harness connector.

Driver seat	Driver seat control unit		Reclining motor	
Connector	Terminal	Connector	Terminal	Continuity
B451	12	B454	12	Existed

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

Driver seat	Driver seat control unit		Continuity
Connector	Terminal	Ground	Continuity
B451	12		Not existed

Is the inspection result normal?

YES >> Replace driver seat control unit.

NO >> Repair or replace harness or connector.

${f 5.}$ CHECK RECLINING SENSOR GROUND CIRCUIT

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

Reclinia	ng motor		Continuity
Connector	Terminal	Ground	Continuity
B454	43		Existed

Is the inspection result normal?

YES >> Replace reclining motor.

NO >> Repair or replace harness or connector.

LIFTING SENSOR (FRONT)

< DTC/CIRCUIT DIAGNOSIS >

LIFTING SENSOR (FRONT)

Component Function Check

1. CHECK FUNCTION

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

Monitor item	Condition		Value
		Operate (up)	Change (increase)*1
LIFT FR PULSE	Seat lifting (front)	Operate (down)	Change (decrease)*1
		Release	No change ^{*1}

^{*1:} 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 >> Perform diagnosis procedure. Refer to <u>ADP-93, "Diagnosis Procedure"</u>.

Diagnosis Procedure

1. CHECK LIFTING SENSOR (FRONT) SIGNAL

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

	(+) Driver seat control unit (-) Condition		Condition		(-) Condition		Voltage (V) (Approx.)
Connector	Terminals		(, (pp. 5%)				
B451	19	Ground	Seat Lifting (front)	Operate Other than the above	10mSec/div 2V/div JMJIA0119ZZ		

Is the inspection result normal?

YES >> Replace driver seat control unit.

NO >> GO TO 2.

2. CHECK LIFTING SENSOR (FRONT) CIRCUIT

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

Driver seat control unit		Lifting motor (front)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B451	19	B455	19	Existed

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

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LIFTING SENSOR (FRONT)

< DTC/CIRCUIT DIAGNOSIS >

Driver seat	control unit		Continuity
Connector	Terminal	Ground	Continuity
B451	19		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

${f 3.}$ CHECK LIFTING SENSOR (FRONT) POWER SUPPLY

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

(+) Lifting motor (front)		(-)	Voltage (V) (Approx.)
Connector Terminals			(Αρρίολ.)
B455	12	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.
- Check continuity between driver seat control unit harness connector and lifting motor (front) harness connector.

Driver seat	control unit	Lifting mo	otor (front)	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B451	12	B455	12	Existed

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

Driver seat control unit			Continuity
Connector	Connector Terminal		Continuity
B451	12		Not existed

Is the inspection result normal?

YES >> Replace driver seat control unit.

NO >> Repair or replace harness or connector.

5. CHECK LIFTING SENSOR (FRONT) GROUND CIRCUIT

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

Lifting motor (front)			Continuity
Connector	Terminal	Ground	Continuity
B455	43		Existed

Is the inspection result normal?

YES >> Replace lifting motor (front).

NO >> Repair or replace harness or connector.

LIFTING SENSOR (REAR)

< DTC/CIRCUIT DIAGNOSIS >

LIFTING SENSOR (REAR)

Component Function Check

1. CHECK FUNCTION

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

Monitor item	Condition		Value
		Operate (up)	Change (increase)*1
LIFT RR PULSE	Seat lifting (rear)	Operate (down)	Change (decrease)*1
		Release	No change ^{*1}

^{*1:} 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 >> Perform diagnosis procedure. Refer to ADP-95, "Diagnosis Procedure".

Diagnosis Procedure

1. CHECK LIFTING SENSOR (REAR) SIGNAL

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

	+) control unit	(-)	Condition		Voltage (V) (Approx.)
Connector	Terminals				, , ,
B451	20	Ground	Seat Lifting (rear)	Operate Other than the above	10mSec/div 2V/div JMJIA0119ZZ

Is the inspection result normal?

YES >> Replace driver seat control unit.

NO >> GO TO 2.

2.CHECK LIFTING SENSOR (REAR) CIRCUIT

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

Driver seat	Driver seat control unit		Lifting motor (rear)	
Connector	Terminal	Connector	Terminal	Continuity
B451	20	B456	20	Existed

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

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LIFTING SENSOR (REAR)

< DTC/CIRCUIT DIAGNOSIS >

Driver seat control unit			Continuity
Connector	Connector Terminal		Continuity
B451	20		Not existed

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness or connector.

3.check lifting sensor (rear) power supply

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

(+)		(-)	Voltage (V) (Approx.)
Lifting motor (rear)			
Connector	Connector Terminals		
B456	12	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.
- Check the continuity between driver seat control unit harness connector and lifting motor (rear) harness connector.

Driver seat	control unit	Lifting m	otor (rear)	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B451	12	B456	12	Existed

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

Driver seat	Driver seat control unit		Continuity
Connector	Connector Terminal		Continuity
B451	12		Not existed

Is the inspection result normal?

YES >> Replace driver seat control unit.

NO >> Repair or replace harness or connector.

5. CHECK LIFTING SENSOR (REAR) GROUND CIRCUIT

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

Lifting motor (rear)			Continuity
Connector	Terminal	Ground	Continuity
B456	43		Existed

Is the inspection result normal?

YES >> Replace lifting motor (rear).

NO >> Repair or replace harness or connector.

TILT SENSOR

Component Function Check

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1. CHECK FUNCTION

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

Monitor item	Condition		Value
	T PULSE Steering column	Operate (up)	Change (increase)*1
TILT PULSE		Operate (down)	Change (decrease)*1
		Release	No change ^{*1}

^{*1:} 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 >> Perform diagnosis procedure. Refer to <u>ADP-97</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000010259571

1. CHECK TILT SENSOR SIGNAL

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

	+) control unit	(-) Condition		Voltage (V) (Approx.)	
Connector	Terminals				
B451	21	Ground	Steering col- umn	Operate Other than the above	10mSec/div 2V/div JMJIA0119ZZ

Is the inspection result normal?

YES >> Replace driver seat control unit.

NO >> GO TO 2.

2. CHECK TILT SENSOR CIRCUIT

- Turn ignition switch OFF.
- Disconnect driver seat control unit connector 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		Continuity
B451	21	M116	5	Existed

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

Driver seat	control unit		Continuity	
Connector	Terminal	Ground	Continuity	
B451	21		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

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

(+) Tilt motor		(-)	Voltage (V) (Approx.)	
Connector	Terminals		(Αρρίολ.)	
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.
- 2. Disconnect automatic drive positioner control unit connector.
- 3. Check continuity between automatic drive positioner control unit harness connector and tilt motor harness connector.

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

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

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

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit.

NO >> Repair or replace harness or connector.

${f 5.}$ CHECK TILT SENSOR GROUND CIRCUIT

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

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

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

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

Is the inspection result normal?

YES >> Replace tilt motor.

NO >> Repair or replace harness or connector.

TELESCOPIC SENSOR

< DTC/CIRCUIT DIAGNOSIS >

TELESCOPIC SENSOR

Component Function Check

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1. CHECK FUNCTION

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

Monitor item	Condition		Value
	ELESCO PULSE Steering column	Operate (forward)	Change (increase)*1
TELESCO PULSE		Operate (backward)	Change (decrease)*1
		Release	No change ^{*1}

^{*1:} 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 >> Perform diagnosis procedure. Refer to <u>ADP-99</u>, "<u>Diagnosis Procedure</u>".

Diagnosis Procedure

INFOID:0000000010259573

1. CHECK TELESCOPIC SENSOR SIGNAL

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

	(+) at control unit (-)		Condition		(-) Condition		Voltage (V) (Approx.)
Connector	Terminals		(лергох.)				
B451	5	Ground	Steering col- umn	Operate Other than the above	10mSec/div 2V/div JMJIA0119ZZ		

Is the inspection result normal?

YES >> Replace driver seat control unit.

NO >> GO TO 2.

2. CHECK TELESCOPIC SENSOR CIRCUIT

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

Driver seat	Driver seat control unit		Telescopic motor		
Connector	Terminal	Connector Terminal		Continuity	
B451	5	M117	5	Existed	

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

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TELESCOPIC SENSOR

< DTC/CIRCUIT DIAGNOSIS >

Driver seat control unit			Continuity
Connector	Terminal	Ground	Continuity
B451	5		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.

(+)			V-14 () ()
Telescopic motor		(-)	Voltage (V) (Approx.)
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.
- Check continuity between automatic drive positioner control unit harness connector and telescopic motor harness connector.

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

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

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

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit.

NO >> Repair or replace harness or connector.

CHECK TELESCOPIC SENSOR GROUND CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect automatic drive positioner control unit connector.
- 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	Continuity
M75	20	M117	6	Existed

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

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

TELESCOPIC SENSOR

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

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MIRROR SENSOR

DRIVER SIDE

DRIVER SIDE : Component Function Check

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1. CHECK FUNCTION

- 1. Select "MIR/SEN LH U-D", "MIR/SEN LH R-L" in "Data monitor" using 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	- Door militor (univer slue)	Change between 0.6 [V] (close to left edge) 3.4 [V] (close to right edge)

Is the indication normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to ADP-102, "DRIVER SIDE : Diagnosis Procedure".

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000010259575

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

- 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.

(+) Door mirror (driver side)		(-)	Voltage (V) (Approx.)	
Connector	Terminals		(11 - 7	
D3	23	Ground	5	

Is the inspection result normal?

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

2.CHECK DOOR MIRROR (DRIVER SIDE) SENSOR POWER SUPPLY CIRCUIT

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

Automatic drive po	Automatic drive positioner control unit		Door mirror (driver side)	
Connector	Terminal	Connector	Terminal	Continuity
M75	21	D3	23	Existed

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

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

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit.

NO >> Repair or replace harness or connector.

< DTC/CIRCUIT DIAGNOSIS >

${f 3.}$ CHECK DOOR MIRROR (DRIVER SIDE) 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 door mirror (driver side) harness connector.

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

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

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness or connector.

4.CHECK DOOR MIRROR (DRIVER SIDE) SENSOR CIRCUIT

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

Automatic drive p	ositioner control unit	Door mirror (driver side)		Continuity
Connector	Terminal	Connector Terminal		Continuity
M75	6	Da	21	Existed
IVI/5	18	D3	22	Existed

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

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

Is the inspection result normal?

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

NO >> Repair or replace harness or connector.

PASSENGER SIDE

PASSENGER SIDE: Component Function Check

1. CHECK FUNCTION

- 1. Select "MIR/SEN RH U-D", "MIR/SEN RH R-L" in "Data monitor" using 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	Door militor (passenger side)	Change between 3.4 [V] (close to left edge) 0.6 [V] (close to right edge)

Is the indication normal?

YES >> INSPECTION END

ADP-103 Revision: 2014 October 2015 QX80

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< DTC/CIRCUIT DIAGNOSIS >

NO >> Perform diagnosis procedure. Refer to ADP-104, "PASSENGER SIDE: Diagnosis Procedure".

PASSENGER SIDE : Diagnosis Procedure

INFOID:0000000010259577

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

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

(+)			Voltage (V)	
Door mirror (p	Door mirror (passenger side)		Voltage (V) (Approx.)	
Connector	Connector Terminals			
D23	D23 23		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.
- Check continuity between automatic drive positioner control unit harness connector and door mirror (passenger side) harness connector.

Automatic drive po	comatic drive positioner control unit Door mirror (passenger s		Door mirror (passenger side)	
Connector	Terminal	Connector Terminal		Continuity
M75	21	D23	23	Existed

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

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

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit.

NO >> Repair or replace harness or connector.

$3. {\sf CHECK}$ door mirror (passenger side) sensor ground circuit

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

Automatic drive po	sitioner control unit	Door mirror (passenger side)		Continuity	
Connector	Terminal	Connector Terminal		Continuity	
M75	20	D23	24	Existed	

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

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

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness or connector.

< DTC/CIRCUIT DIAGNOSIS >

4. CHECK DOOR MIRROR (PASSENGER SIDE) SENSOR CIRCUIT

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

Automatic drive po	Automatic drive positioner control unit Door mirror (passenger side)			
Connector	Terminal	Connector Terminal		Continuity
M75	5	D23	21	Existed
IVI7 S	17	D23	22	LAISIGU

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

Automatic drive po	sitioner control unit		Continuity	
Connector	Connector Terminal		Continuity	
M75	5	Ground	Not existed	
IVI7 J	17		NOT EXISTED	

Is the inspection result normal?

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

NO >> Repair or replace harness or connector.

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SLIDING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

SLIDING MOTOR

Component Function Check

INFOID:0000000010259578

1. CHECK FUNCTION

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

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

Is the operation of relevant parts normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to ADP-106, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000010259579

1. CHECK SLIDING MOTOR INPUT SIGNAL

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

(+) Sliding motor		(-)	Condition		Voltage (V) (Approx.)
Connector	Connector Terminals				(44)
				OFF	0
	38			FR (forward)	12
D404		Crownd	SEAT SLIDE	RR (backward)	0
B461		Ground	Glound SEAT SLIDE	OFF	0
	34	Į.		FR (forward)	0
			RR (backward)	12	

Is the inspection result normal?

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

NO >> GO TO 2.

2.CHECK SLIDING MOTOR CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect driver seat control unit connector.
- 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	Continuity	
B452	34	B461	34	Existed	
D432	38		38	Existed	

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

SLIDING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

Driver seat control unit			Continuity	
Connector	Terminal	Ground	Continuity	
B452	34		Not existed	
D432	38		Not existed	

Is the inspection result normal?

YES >> Replace driver seat control unit.

NO >> Repair or replace harness or connector.

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RECLINING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

RECLINING MOTOR

Component Function Check

INFOID:0000000010259580

1. CHECK FUNCTION

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

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

Is the operation of relevant parts normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to ADP-108, "Diagnosis Procedure".

Diagnosis Procedure

INFOID-0000000040050504

1. CHECK RECLINING MOTOR INPUT SIGNAL

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

(+) Reclining motor		(-)	Con	Condition	
Connector	Terminals				(Approx.)
	35	Ground	SEAT RECLINING	OFF	0
				FR (forward)	12
B454				RR (backward)	0
D404	39			OFF	0
				FR (forward)	0
				RR (backward)	12

Is the inspection result normal?

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

NO >> GO TO 2.

2. CHECK RECLINING MOTOR CIRCUIT

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

Driver seat control unit		Reclining motor		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
B452	35	B454	35	Existed	
D432	39		39	Existed	

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

RECLINING MOTOR

< DTC/CIRCUIT DIAGNOSIS >

Driver se	at control unit		Continuity
Connector	Terminal	Ground	Continuity
B452	35	Ground	Not existed
D402	39		NOT EXISTED

Is the inspection result normal?

YES >> Replace driver seat control unit.

NO >> Repair or replace harness or connector.

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LIFTING MOTOR (FRONT)

< DTC/CIRCUIT DIAGNOSIS >

LIFTING MOTOR (FRONT)

Component Function Check

1. CHECK FUNCTION

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

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

Is the operation of relevant parts normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to <u>ADP-110, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000010259583

INFOID:0000000010259582

1. CHECK LIFTING MOTOR (FRONT) INPUT SIGNAL

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

(+) Lifting motor (front) Connector Terminals		(-) Cond		dition	Voltage (V) (Approx.)	
					(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	36			OFF	0	
		Ground	OF AT LIFTED ED	UP	0	
B455				DWN (down)	12	
B455			Glouild SEAT LIFTER	SEAT LIFTER FR	OFF	0
	40			UP	12	
				DWN (down)	0	

Is the inspection result normal?

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

NO >> GO TO 2.

2.CHECK LIFTING MOTOR (FRONT) CIRCUIT

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

Driver sea	t control unit	Lifting motor (front)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B452	36	B455	36	Existed
D432	40	6400	40	Existed

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

LIFTING MOTOR (FRONT)

< DTC/CIRCUIT DIAGNOSIS >

Driver sea	t control unit		Continuity
Connector	Terminal	Ground	Continuity
B452	36	Ground	Not existed
D432	40		Not existed

Is the inspection result normal?

YES >> Replace driver seat control unit.

NO >> Repair or replace harness or connector.

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LIFTING MOTOR (REAR)

< DTC/CIRCUIT DIAGNOSIS >

LIFTING MOTOR (REAR)

Component Function Check

INFOID:0000000010259584

1. CHECK FUNCTION

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

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

Is the operation of relevant parts normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to <u>ADP-112, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000010259585

1. CHECK LIFTING MOTOR (REAR) INPUT SIGNAL

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

	(+) Lifting motor (rear)		Condition		Voltage (V) (Approx.)
Connector	Connector Terminals				(
				OFF	0
	B456 42	Ground	SEAT LIFTER RR	UP	12
D456				DWN (DOWN)	0
D430				OFF	0
				UP	0
				DWN (DOWN)	12

Is the inspection result normal?

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

NO >> GO TO 2.

2. CHECK LIFTING MOTOR (REAR) CIRCUIT

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

Driver sea	t control unit	Lifting motor (rear)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B452	41	B456	41	Existed
D 4 32	42	D430	42	Existed

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

LIFTING MOTOR (REAR)

< DTC/CIRCUIT DIAGNOSIS >

Driver se	at control unit		Continuity
Connector	Terminal	Ground	Continuity
B452	41	Ground	Not existed
D432	42		Not existed

Is the inspection result normal?

YES >> Replace driver seat control unit.

NO >> Repair or replace harness or connector.

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TILT MOTOR

Component Function Check

INFOID:0000000010259586

1. CHECK FUNCTION

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

Test item		Desc	ription
	OFF		Stop
TILT MOTOR	UP	Steering tilt	Upward
	DWN		Downward

Is the operation of relevant parts normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to <u>ADP-114, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000010259587

1. CHECK TILT MOTOR INPUT SIGNAL

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

	(+) Tilt motor Connector Terminals		(-) Condition		Voltage (V) (Approx.)	
Connector					(* 155.5/)	
				OFF	0	
	M116 Ground TILT MOTOR	Ground	THE MOTOR	UP	0	
M116				DWN (down)	12	
IVITO			Ground	2 Glodild TIET WO	TILI WOTOR	OFF
	2					UP
				DWN (down)	0	

Is the inspection result normal?

YES >> Replace tilt motor (built in steering column assembly).

NO >> GO TO 2.

2.check tilt motor circuit

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

Automatic drive po	ositioner control unit	Tilt motor		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M104	28	M116	1	Existed
IVI 104	29	IVITO	2	Existed

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

TILT MOTOR

< DTC/CIRCUIT DIAGNOSIS >

Automatic drive p	Automatic drive positioner control unit		Continuity
Connector	Terminal	Ground	Continuity
M104	28	Giouna	Not existed
W1104	29		Not existed

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit.

NO >> Repair or replace harness or connector.

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TELESCOPIC MOTOR

< DTC/CIRCUIT DIAGNOSIS >

TELESCOPIC MOTOR

Component Function Check

INFOID:0000000010259588

1. CHECK FUNCTION

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

Test item		Desc	ription
	OFF		Stop
TELESCO MOTOR	OTOR FR Steering telescopic	Steering telescopic	Forward
	RR		Backward

Is the operation of relevant parts normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to <u>ADP-116, "Diagnosis Procedure"</u>.

Diagnosis Procedure

INFOID:0000000010259589

1. CHECK TELESCOPIC MOTOR INPUT SIGNAL

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

	(+) Telescopic motor Connector Terminals		Con	Condition		
Connector					(Approx.)	
			TELESCOPIC MO-	OFF	0	
	1	Ground		FR (forward)	0	
M117				RR (backward)	12	
IVI I 7			Ground	TOR	OFF	0
	2			FR (forward)	12	
				RR (backward)	0	

Is the inspection result normal?

YES >> Replace telescopic motor (built in steering column assembly).

NO >> GO TO 2.

2. CHECK TELESCOPIC MOTOR CIRCUIT

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

Automatic drive po	ositioner control unit	Telescopic motor		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M104	26	M117	1	Existed
W1104	29	M117	2	Existed

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

TELESCOPIC MOTOR

< DTC/CIRCUIT DIAGNOSIS >

Automatic drive p	Automatic drive positioner control unit		Continuity
Connector	Terminal	Ground	Continuity
M104	26	Giouria	Not existed
W1104	29		Not existed

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit.

NO >> Repair or replace harness or connector.

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DOOR MIRROR MOTOR

< DTC/CIRCUIT DIAGNOSIS >

DOOR MIRROR MOTOR

Component Function Check

1. CHECK DOOR MIRROR MOTOR FUNCTION

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

Refer to ADP-22, "CONSULT Function".

Is the inspection result normal?

YES >> INSPECTION END

NO >> Refer to ADP-118, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000010259591

INFOID:0000000010259590

1. CHECK DOOR MIRROR MOTOR INPUT SIGNAL

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

(+) Door mirror		(-) Con		ndition	Voltage (V) (Approx.)			
Connector	Terminals				(· .pp. 5)			
	12			UP	12			
	r side)			Other than the above	0			
D3 (Driver side)		11	11	11	Ground	Door mirror remote	LEFT	12
D23 (Passenger side)					11	Ground	control switch	Other than the above
		40		DOWN / RIGHT	12			
10		1		Other than the 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.
- Disconnect automatic drive positioner control unit connector.
- Check continuity between automatic drive positioner control unit harness connector and door mirror harness connector.

[driver side]

Automatic drive po	sitioner control unit	Door mirror	(driver side)	Continuity
Connector	Terminal	Connector	Terminal	Continuity
	12		10	
M75	23	D3	12	Existed
	24		11	

[passenger side]

Automatic drive p	ositioner control unit	Door mirror (p	assenger side)	Continuity
Connector	Terminal	Connector	Terminal	Continuity
	22		10	
M75	10	D23	12	Existed
	11		11	

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

DOOR MIRROR MOTOR

< DTC/CIRCUIT DIAGNOSIS >

Automatic drive positioner control unit			Continuity
Connector	Terminal		Continuity
	12	Ground	
M75	23		Not existed
	24		
senger side]			
Automatic drive pos	sitioner control unit		Continuity
Connector	Terminal		Continuity
	22	Ground	
M75	10		Not existed
	11	1	

Is the inspection result normal?

YES >> Replace automatic drive positioner control unit.

NO >> Repair or replace harness or connector.

3. CHECK DOOR MIRROR MOTOR

Check door mirror motor.

Refer to ADP-119, "Component Inspection".

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

NO >> Replace door mirror.

Component Inspection

1. CHECK DOOR MIRROR MOTOR 1

Check that door mirror motor does not trap foreign objects and does not have any damage.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace door mirror.

Refer to MIR-35, "Exploded View".

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.

Door mirror			
0 .	Terminal		Operational direction
Connector	(+)	(-)	
D3 (Driver side) D23 (Passenger side)	10	11	RIGHT
	11	10	LEFT
	12	10	UP
	10	12	DOWN

Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace door mirror.

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SEAT MEMORY INDICATOR

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< DTC/CIRCUIT DIAGNOSIS >

SEAT MEMORY INDICATOR

Component Function Check

1. CHECK FUNCTION

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

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

Is the operation of relevant parts normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to ADP-120, "Diagnosis Procedure".

Diagnosis Procedure

1. CHECK SEAT MEMORY SWITCH INDICATOR OPERATION

Check seat memory switch indicator operation.

Which is the malfunctioning indicator?

All indicators are NG>>GO TO 2.

An indicator is NG>>GO TO 4.

2.CHECK FUSE

- 1. Turn ignition switch OFF.
- 2. Check that the blown fuse after repairing the affected circuit if a fuse is blown.

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

Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace the blown fuse after repairing the affected circuit if a fuse is blown.

3. CHECK SEAT MEMORY SWITCH INDICATOR POWER SUPPLY

Check voltage between seat memory switch harness connector and ground.

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

Is the inspection result normal?

YES >> Replace seat memory switch.

NO >> Repair or replace harness or connector.

4. CHECK SEAT MEMORY SWITCH INDICATOR CIRCUIT

- 1. Turn ignition switch OFF.
- Disconnect driver seat control unit and seat memory switch connector.
- 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	Continuity	
B451	23	D13	6	Existed	
	7	טוט	7	LXISIEU	

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

Driver seat control unit			Continuity
Connector	Terminal	Ground	Continuity
B451	23	Ground	Not existed
5431	7	NOT GAIST	Not existed

Is the inspection result normal?

YES >> Replace driver seat control unit.

NO >> Repair or replace harness or connector.

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< SYMPTOM DIAGNOSIS >

SYMPTOM DIAGNOSIS

MANUAL FUNCTION DOES NOT OPERATE

ALL COMPONENT

ALL COMPONENT: Diagnosis Procedure

INFOID:0000000010259595

${f 1}.$ CHECK DRIVER SEAT CONTROL UNIT POWER SUPPLY AND GROUND CIRCUIT

Check driver seat control unit power supply and ground circuit.

Refer to ADP-67, "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-67, "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-43, "Intermittent Incident".

NO >> GO TO 1.

POWER SEAT

POWER SEAT : Diagnosis Procedure

INFOID:0000000010259596

1. CHECK POWER SEAT SWITCH GROUND CIRCUIT

Check power seat switch ground circuit.

Refer to ADP-87, "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-43, "Intermittent Incident".

NO >> GO TO 1.

TILT & TELESCOPIC

TILT & TELESCOPIC : Diagnosis Procedure

INFOID:0000000010259597

1. CHECK TILT & TELESCOPIC SWITCH GROUND CIRCUIT

Check tilt & telescopic switch ground circuit.

Refer to ADP-88. "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.

Revision: 2014 October ADP-122 2015 QX80

< SYMPTOM DIAGNOSIS >	
Is the result normal?	
YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident". NO >> GO TO 1.	
SEAT SLIDING	
SEAT SLIDING : Diagnosis Procedure	
	INFOID:000000010259598
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-69, "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-106, "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-43, "Intermittent Incident".	
NO >> GO TO 1. SEAT RECLINING	
SEAT RECLINING	
SEAT RECLINING : Diagnosis Procedure	INFOID:0000000010259599
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-71, "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-108, "Component Function Check".	

Revision: 2014 October ADP-123 2015 QX80

< SYMPTOM DIAGNOSIS >

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-43, "Intermittent Incident".

NO >> GO TO 1.

SEAT LIFTING (FRONT)

SEAT LIFTING (FRONT): Diagnosis Procedure

INFOID:0000000010259600

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-73, "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-110, "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-43, "Intermittent Incident".

NO >> GO TO 1.

SEAT LIFTING (REAR)

SEAT LIFTING (REAR): Diagnosis Procedure

INFOID:0000000010259601

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-75, "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-114. "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-43. "Intermittent Incident". NO >> GO TO 1. STEERING TELESCOPIC STEERING TELESCOPIC : Diagnosis Procedure 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?	< SYMPTOM DIAGNOSIS >	_
Check (Ilting motor (rear). Check (Ilting motor (rear). Refer to ADP-112. "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 >> CO TO 4. STEERING TILT STEERING TILT: Diagnosis Procedure 1. CHECK STEERING TILT MECHANISM Check for the following Nechanism 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-77. "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. Check t		
Refer to ADP-112. "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-43. "Intermittent Incident". NO >> GO TO 1. STEERING TILT: Diagnosis Procedure T. 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-77. "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 inspection result normal? YES >> GO TO 3. 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-43. "Intermittent Incident". 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-43. "Intermittent Incident". NO >> GO TO 1. STEERING TELESCOPIC STEERING TELESCOPIC Diagnosis Procedure 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 unormal?		
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NO >> GO TO 1. STEERING TELESCOPIC STEERING TELESCOPIC : Diagnosis Procedure 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?	·	N
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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?		0
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?	STEERING TELESCOPIC : Diagnosis Procedure	03
Check for the following. • Mechanism deformation or pinched foreign materials. • Interference with other parts because of poor installation. Is the inspection result normal?		Р
 Mechanism deformation or pinched foreign materials. Interference with other parts because of poor installation. Is the inspection result normal? 		_
Is the inspection result normal?	Mechanism deformation or pinched foreign materials.	
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Revision: 2014 October ADP-125 2015 QX80

YES >> GO TO 2.

< SYMPTOM DIAGNOSIS >

NO >> Repair or replace the malfunction parts.

2. CHECK TELESCOPIC SWITCH

Check telescopic switch.

Refer to ADP-79, "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-116, "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-43, "Intermittent Incident".

NO >> GO TO 1.

DOOR MIRROR

DOOR MIRROR : Diagnosis Procedure

INFOID:0000000010259604

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 following.

- Mirror switch: Refer to ADP-84, "MIRROR SWITCH: Component Function Check".
- Changeover switch: Refer to ADP-83, "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-118, "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-43, "Intermittent Incident".

NO >> GO TO 1.

MEMORY FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS > MEMORY FUNCTION DOES NOT OPERATE Α ALL COMPONENT ALL COMPONENT : Diagnosis Procedure INFOID:0000000010259605 В 1. CHECK MANUAL OPERATION Check manual operation. Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunction parts. D 2.perform initialization and memory storing procedure Perform initialization procedure. Refer to ADP-52, "SYSTEM INITIALIZATION: Special Repair Requirement". Е Perform memory storing procedure. Refer to ADP-53, "MEMORY STORING: Special Repair Requirement". Check memory function. Refer to ADP-15, "MEMORY FUNCTION: System Description". Is the inspection result normal? >> Memory function is normal. NO >> GO TO 3. 3. CHECK SEAT MEMORY SWITCH Check seat memory switch. Refer to ADP-81, "Component Function Check". Is the inspection result normal? YES >> GO TO 4. NO >> Replace seat memory switch. 4.CONFIRM THE OPERATION ADP Confirm the operation again. Is the result normal? >> Check intermittent incident. Refer to GI-43, "Intermittent Incident". YES NO >> GO TO 1. SEAT SLIDING SEAT SLIDING: Diagnosis Procedure INFOID:0000000010259606 1. CHECK MANUAL OPERATION Check manual operation. Is the inspection result normal? YES >> GO TO 2. Ν NO >> Refer to ADP-123, "SEAT SLIDING: Diagnosis Procedure" 2.CHECK SLIDING SENSOR Check sliding sensor. Refer to ADP-89, "Component Function Check". Is the inspection result normal? Р YES >> GO TO 3. NO >> Repair or replace the malfunction parts. 3.CONFIRM THE OPERATION Check the operation again. Is the result normal?

>> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

MEMORY FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

NO >> GO TO 1.

SEAT RECLINING

SEAT RECLINING : Diagnosis Procedure

INFOID:0000000010259607

1. CHECK MANUAL OPERATION

Check manual operation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to ADP-123, "SEAT RECLINING: Diagnosis Procedure"

2.CHECK RECLINING SENSOR

Check reclining sensor.

Refer to ADP-91, "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-43, "Intermittent Incident".

NO >> GO TO 1.

SEAT LIFTING (FRONT)

SEAT LIFTING (FRONT): Diagnosis Procedure

INFOID:0000000010259608

1. CHECK MANUAL OPERATION

Check manual operation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to ADP-124, "SEAT LIFTING (FRONT): Diagnosis Procedure"

2.CHECK LIFTING SENSOR (FRONT)

Check lifting sensor (front).

Refer to ADP-93, "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-43, "Intermittent Incident".

NO >> GO TO 1.

SEAT LIFTING (REAR)

SEAT LIFTING (REAR): Diagnosis Procedure

INFOID:0000000010259609

1. CHECK MANUAL OPERATION

Check manual operation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to ADP-124, "SEAT LIFTING (REAR) : Diagnosis Procedure"

MEMORY FUNCTION DOES NOT OPERATE < SYMPTOM DIAGNOSIS > 2.CHECK LIFTING SENSOR (REAR) Check lifting sensor (rear). Refer to ADP-95, "Component Function Check". Is the inspection result normal? В YES >> GO TO 3. NO >> Repair or replace the malfunction parts. 3.CONFIRM THE OPERATION Check the operation again. Is the result normal? D YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident". NO >> GO TO 1. STEERING TILT Е STEERING TILT: Diagnosis Procedure INFOID:0000000010259610 1. CHECK MANUAL OPERATION Check manual operation. Is the inspection result normal? YES >> GO TO 2. NO >> Refer to ADP-125, "STEERING TILT: Diagnosis Procedure" 2.CHECK TILT SENSOR Check steering tilt sensor. Refer to ADP-97, "Component Function Check". Is the inspection result normal? YES >> GO TO 3. NO >> Repair or replace the malfunction parts. ADP $oldsymbol{3}.$ CONFIRM THE OPERATION Check the operation again. Is the result normal? YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident". >> GO TO 1. NO STEERING TELESCOPIC STEERING TELESCOPIC: Diagnosis Procedure INFOID:0000000010259611 1. CHECK MANUAL OPERATION M Check manual operation. Is the inspection result normal? Ν YES >> GO TO 2. NO >> Refer to ADP-125, "STEERING TELESCOPIC: Diagnosis Procedure" 2. CHECK TELESCOPIC SENSOR Check steering telescopic sensor. Refer to ADP-99, "Component Function Check". Р Is the inspection result normal? YES >> GO TO 3.

NO

3.CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

>> Repair or replace the malfunction parts.

MEMORY FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".

NO >> GO TO 1. DOOR MIRROR

DOOR MIRROR: Diagnosis Procedure

INFOID:0000000010259612

1. CHECK MANUAL OPERATION

Check manual operation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to ADP-126, "DOOR MIRROR : Diagnosis Procedure"

2. CHECK MIRROR SENSOR

Check mirror sensor. Refer to following.

- Driver side: ADP-102, "DRIVER SIDE: Component Function Check".
- Passenger side: ADP-103, "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-43, "Intermittent Incident".

NO >> GO TO 1.

ENTRY/EXIT ASSIST FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

< SYMPTOM DIAGNOSIS > ENTRY/EXIT ASSIST FUNCTION DOES NOT OPERATE	
Diagnosis Procedure	А
1.CHECK SYSTEM SETTING	В
 Check system setting. Refer to <u>ADP-55</u>, "SYSTEM SETTING: Special Repair Requirement". Check the operation. Is the inspection result normal? 	С
YES >> Entry/Exit function is normal. NO >> GO TO 2. 2.PERFORM SYSTEM INITIALIZATION	D
 Perform system initialization. Refer to <u>ADP-52</u>, "SYSTEM INITIALIZATION: Special Repair Requirement". Check the operation. 	Е
Is the inspection result normal? YES >> Entry/Exit function is normal. NO >> GO TO 3.	F
3. CHECK FRONT DOOR SWITCH (DRIVER SIDE)	G
Check front door switch (driver side). Refer to DLK-121, "Component Function Check". Is the inspection result normal? YES >> GO TO 4.	Н
NO >> Repair or replace the malfunction parts. 4.CONFIRM THE OPERATION	I
Confirm the operation again. Is the result normal? YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident". NO >> GO TO 1.	ADP
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Revision: 2014 October ADP-131 2015 QX80

INTELLIGENT KEY INTERLOCK FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

INTELLIGENT KEY INTERLOCK FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000010259614

1. PERFORM INTELLIGENT KEY INTERLOCK STORING PROCEDURE

- Perform Intelligent Key interlock storing procedure.
 Refer to ADP-54, "INTELLIGENT KEY INTERLOCK STORING: Special Repair Requirement".
- 2. Check the operation.

Is the inspection result normal?

YES >> Intelligent Key interlock function is normal.

NO >> GO TO 2.

2.CHECK DOOR LOCK FUNCTION

Check door lock function.

Refer to DLK-81, "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-43, "Intermittent Incident".

NO >> GO TO 1.

MEMORY INDICATE DOES NOT OPERATE

< SYMPTOM DIAGNOSIS > MEMORY INDICATE DOES NOT OPERATE Α Diagnosis Procedure INFOID:0000000010259615 1. CHECK SEAT MEMORY SWITCH INDICATOR В Check seat memory switch indicator. Refer to ADP-120, "Component Function Check". C Is the inspection result normal? YES >> GO TO 2. NO >> Repair or replace the malfunction parts. 2.CONFIRM THE OPERATION D Confirm the operation again. Is the result normal? Е YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident". NO >> GO TO 1. F Н ADP K L M Ν 0

ADP-133 Revision: 2014 October 2015 QX80

NORMAL OPERATING CONDITION

NORMAL OPERATING CONDITION

Description INFOID:000000010259616

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

Symptom	Cause	Action to take	Reference page
Entry/ovit assist function do not	No initialization has been performed.	Perform initialization.	ADP-52, "SYSTEM INI- TIALIZATION : Descrip- tion"
Entry/exit assist function do not operate.	Entry/exit assist function is disabled. NOTE: Entry/exit assist function is set to ON before delivery (initial setting).	Change the settings.	ADP-54, "SYSTEM SETTING : Description"
Entry assist function does not operate.	Manual operation with power seat switch was performed after exit assist function execution.	Perform the entry assist function.	ADP-18, "ENTRY AS- SIST FUNCTION : Sys- tem Description"
Lumbar support does not perform memory operation.	The lumbar support system are controlled independently with no link to the automatic drive positioner system.	_	SE-16, "LUMBAR SUP- PORT SYSTEM : Sys- tem Description"
Memory function, entry/exit assist function, or Intelligent Key interlock function does not operate.	The operating conditions are not fulfilled.	Fulfill the operation conditions.	Memory function: ADP-15, "MEMORY FUNCTION: System Description"
			Entry assist function: ADP-18, "ENTRY AS- SIST FUNCTION: Sys- tem Description"
			Exit assist function: ADP-17, "EXIT ASSIST FUNCTION: System Description"
			Intelligent Key interlock function: ADP-20, "IN- TELLIGENT KEY IN- TERLOCK FUNCTION: System Description"

DRIVER SEAT CONTROL UNIT

< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

DRIVER SEAT CONTROL UNIT

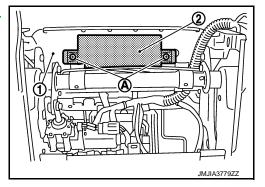
Removal and Installation

REMOVAL

CAUTION:

When removing and installing, use shop cloths to protect parts from damage.

- 1. Remove driver seat (1). Refer to <u>SE-111, "Removal and Installation"</u>.
- 2. Remove screws (A).
- 3. Remove driver seat control unit (2).



INSTALLATION

Install in the reverse order of removal.

CAUTION:

Be sure to clump the harness to the right place.

NOTE:

After installing the driver seat, perform additional service when replacing control unit. Refer to <u>ADP-51</u>, "ADDI-TIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description".

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AUTOMATIC DRIVE POSITIONER CONTROL UNIT

< REMOVAL AND INSTALLATION >

AUTOMATIC DRIVE POSITIONER CONTROL UNIT

Removal and Installation

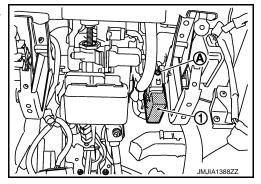
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REMOVAL

CAUTION:

When removing and installing, use shop cloths to protect parts from damage.

- 1. Remove instrument lower panel LH. Refer to <u>IP-14, "Removal and Installation"</u>.
- 2. Remove screws (A).
- 3. Remove automatic drive positioner control unit (1).



INSTALLATION

Install in the reverse order of removal.

CAUTION:

Be sure to clump the harness to the right place.

NOTE:

After installing the driver seat, perform additional service when replacing control unit. Refer to <u>ADP-51</u>, "ADDI-TIONAL SERVICE WHEN REPLACING CONTROL UNIT: Description".

SEAT MEMORY SWITCH

< REMOVAL AND INSTALLATION >

SEAT MEMORY SWITCH

Removal and Installation

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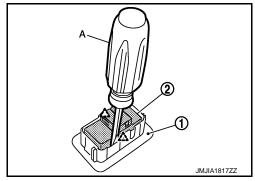
REMOVAL

CAUTION:

When removing and installing, use shop cloths to protect parts from damage.

- 1. Remove front door garnish (1). Refer to INT-14, "Removal and <a href="Installation".
- 2. Press pawls and remove seat memory switch (2) from front door garnish (1), with remover tool (A).





INSTALLATION

Install in the reverse order of removal.

CAUTION:

Be sure to clump the harness to the right place.

NOTE:

After installing the driver seat, perform additional service when removing battery negative terminal. Refer to <u>ADP-51</u>, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Description".

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POWER SEAT SWITCH

< REMOVAL AND INSTALLATION >

POWER SEAT SWITCH

Removal and Installation

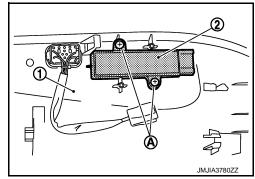
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REMOVAL

CAUTION:

When removing and installing, use shop cloths to protect parts from damage.

- 1. Remove seat cushion outer finisher (1). Refer to <u>SE-115, "SEAT CUSHION: Disassembly and Assembly"</u>.
- 2. Remove screws (A).
- 3. Remove power seat switch (2) from seat cushion outer finisher (1).



INSTALLATION

Install in the reverse order of removal.

CAUTION:

Be sure to clump the harness to the right place.

NOTE:

After installing the driver seat, perform additional service when removing battery negative terminal. Refer to ADP-51, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Description".

TILT&TELESCOPIC SWITCH

< REMOVAL AND INSTALLATION >

TILT&TELESCOPIC SWITCH

Removal and Installation

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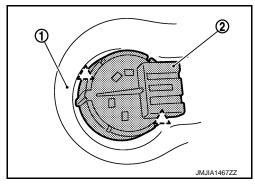
REMOVAL

CAUTION:

When removing and installing, use shop cloths to protect parts from damage.

- 1. Remove steering column lower cover (1). Refer to <u>IP-14.</u> "Removal and Installation".
- 2. Press pawls and remove tilt & telescopic switch (2) from the steering column lower cover (1).





INSTALLATION

Install in the reverse order of removal.

CAUTION:

Be sure to clump the harness to the right place.

NOTE:

After installing the driver seat, perform additional service when removing battery negative terminal. Refer to ADP-51, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Description".

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