# SECTION ADP AUTOMATIC DRIVE POSITIONER

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# **CONTENTS**

BASIC INSPECTION6	ACTOMATIC DRIVET CONTINUES STOTEM.	F
DIA CNOCIC AND DEDAID WORKELOW	System Diagram13	
DIAGNOSIS AND REPAIR WORKFLOW 6	AUTOMATIC DRIVE POSITIONER SYSTEM:	
Work Flow6	System Description14	G
INSPECTION AND ADJUSTMENT9	AUTOMATIC DRIVE POSITIONER SYSTEM:	
INOI EOTION AND ADDOOTMENT	Component Parts Location15	
ADDITIONAL SERVICE WHEN REMOVING BAT-	AUTOMATIC DRIVE POSITIONER SYSTEM:	Н
TERY NEGATIVE TERMINAL9	Component Description17	
ADDITIONAL SERVICE WHEN REMOVING	MANUAL FUNCTION19	
BATTERY NEGATIVE TERMINAL : Description9	MANUAL FUNCTION : System Diagram19	
ADDITIONAL SERVICE WHEN REMOVING	MANUAL FUNCTION: System Diagram19	I
BATTERY NEGATIVE TERMINAL : Special Re-	MANUAL FUNCTION: System Description19  MANUAL FUNCTION: Component Parts Loca-	
pair Requirement9	41	F
	MANUAL FUNCTION : Component Description21	D
ADDITIONAL SERVICE WHEN REPLACING	WANDAL FUNCTION : Component Description23	
CONTROL UNIT9	SEAT SYNCHRONIZATION FUNCTION24	
ADDITIONAL SERVICE WHEN REPLACING		Κ
CONTROL UNIT: Description9	tem Diagram24	
ADDITIONAL SERVICE WHEN REPLACING	SEAT SYNCHRONIZATION FUNCTION: Sys-	
CONTROL UNIT : Special Repair Requirement9	tem Description24	
SYSTEM INITIALIZATION10	SEAT SYNCHRONIZATION FUNCTION : Com-	_
SYSTEM INITIALIZATION : Description	ponent Parts Location26	
SYSTEM INITIALIZATION: Description	SEAT SYNCHRONIZATION FUNCTION :	
quirement10	Component Description28	M
quirement10		
MEMORY STORING10	MEMORY FUNCTION29	
MEMORY STORING : Description10	MEMORY FUNCTION : System Diagram29	Ν
MEMORY STORING: Special Repair Require-	MEMORY FUNCTION : System Description29	
ment10	MEMORY FUNCTION : Component Parts Loca-	
	tion31	0
SYSTEM SETTING11	MEMORY FUNCTION : Component Description33	J
SYSTEM SETTING : Description11	INTELLIGENT KEY INTERLOCK FUNCTION34	
SYSTEM SETTING: Special Repair Requirement	INTELLICENT VEV INTERLOCK FUNCTION.	
11	System Diagram34	Ρ
SYSTEM DESCRIPTION13	INTELLIGENT KEY INTERLOCK FUNCTION :	
3131EW DESCRIPTION13	System Description34	
<b>AUTOMATIC DRIVE POSITIONER SYSTEM13</b>	INTELLIGENT KEY INTERLOCK FUNCTION :	
	Component Parts Location36	
AUTOMATIC DRIVE POSITIONER SYSTEM13	INTELLIGENT KEY INTERLOCK FUNCTION :	
	Component Description38	

POWER WALK-IN FUNCTION	38	DRIVER SEAT CONTROL UNIT	64
POWER WALK-IN FUNCTION: System Diagram	39	DRIVER SEAT CONTROL UNIT :	
POWER WALK-IN FUNCTION: System Descrip-		Diagnosis Procedure	64
tion	39	DRIVER SEAT CONTROL UNIT : Special Repair	
POWER WALK-IN FUNCTION : Component		Requirement	65
Parts Location	41	ALITOMATIC DRIVE DOCITIONED CONTROL	
POWER WALK-IN FUNCTION :		AUTOMATIC DRIVE POSITIONER CONTROL	
Component Description	43	AUTOMATIC DRIVE POSITIONER CONTROL	65
DIA CNIGGIG GVCTEM (DDIVED CEAT C/II)	45	UNIT : Diagnosis Procedure	C.F.
DIAGNOSIS SYSTEM (DRIVER SEAT C/U)		AUTOMATIC DRIVE POSITIONER CONTROL	65
Diagnosis Description CONSULT-III Function		UNIT : Special Repair Requirement	66
CONSULT-III Function	45	ONT : Special Repair Requirement	00
DTC/CIRCUIT DIAGNOSIS	48	SLIDING SWITCH	67
		Description	67
U1000 CAN COMM CIRCUIT		Component Function Check	67
Description		Diagnosis Procedure	67
DTC Logic		Component Inspection	68
Diagnosis Procedure		DECLINING CWITCH	
Special Repair Requirement	48	RECLINING SWITCH	
B2112 SLIDING MOTOR	40	Description	
		Component Function Check	
Description		Diagnosis Procedure	
DTC Logic  Diagnosis Procedure		Component Inspection	70
Diagnosis Procedure	49	LIFTING SWITCH (FRONT)	71
B2113 RECLINING MOTOR	51	Description	
Description		Component Function Check	
DTC Logic		Diagnosis Procedure	
Diagnosis Procedure		Component Inspection	
-		·	
B2118 TILT SENSOR		LIFTING SWITCH (REAR)	
Description		Description	
DTC Logic		Component Function Check	
Diagnosis Procedure	53	Diagnosis Procedure	
B2119 TELESCOPIC SENSOR	56	Component Inspection	74
Description		FORWARD SWITCH	75
DTC Logic		Description	
Diagnosis Procedure		Component Function Check	
ŭ		Diagnosis Procedure	
B2126 DETENT SW		Component Inspection	
Description	59	·	
DTC Logic		SEAT BELT BUCKLE SWITCH	77
Diagnosis Procedure	59	Description	
B2127 PARKING BRAKE SWITCH	04	Component Function Check	
		Diagnosis Procedure	
Description		Component Inspection	78
DTC Logic		SLIDING LIMIT SWITCH	70
Diagnosis Procedure			
Component Inspection	62	Description	
B2128 UART COMMUNICATION LINE	63	Component Function Check	
Description		Diagnosis Procedure	
DTC Logic		Component Inspection	8U
Diagnosis Procedure		POWER WALK-IN SWITCH	81
-		Description	
POWER SUPPLY AND GROUND CIRCUIT	64	Component Function Check	
BCM	64	Diagnosis Procedure	
BCM : Diagnosis Procedure		Component Inspection	
DOM: DIGUIDAIA ETUGGUUG	u4	•	

TILT SWITCH83	Component Function Check104	
Description83	Diagnosis Procedure104	_
Component Function Check83	LIETING CENCOR (FRONT)	
Diagnosis Procedure83	LIFTING SENSOR (FRONT)107	
Component Inspection84	Description	Е
TELECOODIC CWITCH	Component Function Check	
TELESCOPIC SWITCH85	Diagnosis Procedure107	
Description	LIFTING SENSOR (REAR)110	
Component Function Check85 Diagnosis Procedure85	Description110	
Component Inspection86	Component Function Check110	
Component inspection	Diagnosis Procedure110	Г
SEAT MEMORY SWITCH87	THE TOTALOGO	
Description87	TILT SENSOR113	
Component Function Check87	Description	
Diagnosis Procedure87	Component Function Check	E
Component Inspection88	Diagnosis Procedure113	
DOOR MIRROR REMOTE CONTROL	TELESCOPIC SENSOR116	
SWITCH90	Description116	F
SWITCH90	Component Function Check116	
MIRROR SWITCH90	Diagnosis Procedure116	
MIRROR SWITCH: Description90	MDD OD ODNOOD	
MIRROR SWITCH: Component Function Check90	MIRROR SENSOR119	
MIRROR SWITCH: Diagnosis Procedure90	DRIVER SIDE119	
MIRROR SWITCH: Component Inspection91	DRIVER SIDE : Description119	-
OHANGEOVED CWITCH	DRIVER SIDE : Component Function Check119	
CHANGEOVER SWITCH92	DRIVER SIDE : Diagnosis Procedure119	
CHANGEOVER SWITCH: Company Equation	•	
CHANGEOVER SWITCH : Component Function Check	PASSENGER SIDE121	
CHANGEOVER SWITCH : Diagnosis Procedure92	PASSENGER SIDE : Description121	
CHANGEOVER SWITCH: Diagnosis Flocedure92 CHANGEOVER SWITCH: Component Inspec-	PASSENGER SIDE :	Al
tion93	Component Function Check121	$\sim$
	PASSENGER SIDE : Diagnosis Procedure121	
POWER SEAT SWITCH GROUND CIRCUIT95	SLIDING MOTOR124	ŀ
Diagnosis Procedure95	Description124	ľ
TILT &TELESCOPIC SWITCH GROUND CIR-	Component Function Check124	
	Diagnosis Procedure124	
CUIT96	Component Inspection125	I
Diagnosis Procedure96	·	
DETENTION SWITCH97	RECLINING MOTOR126	
Description97	Description126	[
Component Function Check97	Component Function Check	
Diagnosis Procedure97	Diagnosis Procedure	
Component Inspection98	Component Inspection127	1
·	LIFTING MOTOR (FRONT)128	
PARKING BRAKE SWITCH99	Description	
Description99	Component Function Check128	(
Component Function Check99	Diagnosis Procedure128	
Diagnosis Procedure	Component Inspection129	
Component Inspection100	·	F
SLIDING SENSOR101	LIFTING MOTOR (REAR)130	1
Description101	Description	
Component Function Check101	Component Function Check	
Diagnosis Procedure101	Diagnosis Procedure	
-	Component Inspection131	
RECLINING SENSOR104	TILT MOTOR132	
Description104	Description132	

Component Function Check13	2 STEERING POSITION FUNCTION DOES NOT
Diagnosis Procedure13	
Component Inspection13	3 STEERING POSITION FUNCTION DOES NOT
TELESCODIC MOTOR	OPERATE : Diagnosis Procedure
TELESCOPIC MOTOR	
Description13 Component Function Check13	
Diagnosis Procedure13	
Component Inspection13	5
Component mopodion	SEAT RECLINING 217
DOOR MIRROR MOTOR13	
Description13	6 SEAT RECLINING : Diagnosis Procedure 218
Component Function Check13	
Diagnosis Procedure13	SEAT LIETING (EDONT) : Description 219
Component Inspection13	SEAT LIFTING (FRONT) : Diagnosis Procedure . 218
SEAT MEMORY INDICATOR 13	. , ,
Description	SEAT LIFTING (REAK)219
Component Function Check13	SEAT LIFTING (KEAK) . Description
Diagnosis Procedure13	OLAT LIL HING HYLANY . DIBUHUSIS ETUGGUUG 7 18
	STEERING TILT 210
DOOR MIRROR SYSTEM14	1 STEERING TILT : Description
Wiring Diagram - DOOR MIRROR (WITH AUTO-	STEERING TILT : Diagnosis Procedure 219
MATIC DRIVE POSITIONER)14	1
ECU DIAGNOSIS INFORMATION14	STEERING TELESCOPIC220
LOO DIAGROOM INI ORMATION	012211110 1222001 10 : D00011ptio11 ::::::::::: 220
BCM (BODY CONTROL MODULE)14	9 STEERING TELESCOPIC : Diagnosis Procedure. 220
Reference Value14	9 DOOR MIRROR220
Wiring Diagram - BCM17	
Fail-safe17	
DTC Inspection Priority Chart17	
DTC Index18	MEMORY FUNCTION DOES NOT OPERATE.222
DRIVER SEAT CONTROL UNIT (WITH AU-	ALL COMPONENT222
TOMATIC DRIVE POSITIONER) 18	
Reference Value18	ALL COMPONENT D''- D
Wiring Diagram - AUTOMATIC DRIVE POSI-	SEAT SLIDING222
TIONER CONTROL SYSTEM18	9 SEAT SLIDING : Description222
Fail Safe19	OLA I OLIDINO . DESCIDIUI
DTC Index20	0
ALITOMATIC DRIVE POCITIONED CON	SEAT RECLINING223
AUTOMATIC DRIVE POSITIONER CON-	SEAT RECLINING : Description
TROL UNIT	CETT TECENTITE I Blagnoolo I Toocaaro IIIIIIIII EE
Reference Value	SEAT LIFTING (FRONT)223
Wiring Diagram - AUTOMATIC DRIVE POSI- TIONER CONTROL SYSTEM20	
HONER CONTROL STSTEW20	SEAT LIFTING (FRONT) : Diagnosis Procedure . 223
SYMPTOM DIAGNOSIS21	6
	SEAT LIFTING (REAR)224
MANUAL FUNCTION DOES NOT OPERATE. 21	
ALL COMPONENT21	SEAT LIFTING (REAR) : Diagnosis Procedure 224
ALL COMPONENT : Description21	
ALL COMPONENT : Diagnosis Procedure21	
	STEERING TELESCOPIC: Diagnosis Procedure, 224
POWER SEAT21	6
POWER SEAT : Description21	
POWER SEAT : Diagnosis Procedure21	
STEERING POSITION FUNCTION DOES NOT	STEERING TILT : Diagnosis Procedure 225
OPERATE21	6 DOOR MIRROR225

DOOR MIRROR : Description	. 225
DOOR MIRROR : Diagnosis Procedure	225
MEMORY INDICATE DOES NOT II I IIMI	
MEMORY INDICATE DOES NOT ILLUMI-	
NATE	
Diagnosis Procedure	. 226
SEAT SYNCHRONIZATION FUNCTION	
DOES NOT OPERATE	227
Diagnosis Procedure	
Diagnosis i roccadio	221
POWER WALK-IN FUNCTION DOES NOT	
OPERATE	. 228
Diagnosis Procedure	
INTELLIGENT KEY INTERLOCK FUNCTION	
DOES NOT OPERATE	
Diagnosis Procedure	230
NORMAL OPERATING CONDITION	221
Description	
Description	231
PRECAUTION	. 232
PRECAUTIONS	232
Precaution for Supplemental Restraint System	
(SRS) "AIR BAG" and "SEAT BELT PRE-TEN-	
SIONER"	
Precaution for Rattery Service	222

Service232	2
Work233	2
REMOVAL AND INSTALLATION234	4
DRIVER SEAT CONTROL UNIT234	4
Exploded View23	4
Removal and Installation23	4
AUTOMATIC DRIVE POSITIONER CON-	
TROL UNIT23	
Exploded View23	
Removal and Installation235	5
SEAT MEMORY SWITCH230	
Exploded View236	3
Removal and Installation23	3
POWER SEAT SWITCH23	7
Exploded View23	
Removal and Installation23	
SIDE SUPPORT SWITCH238	
Exploded View23	
Removal and Installation238	3
TILT&TELESCOPIC SWITCH239	9
Exploded View239	9
Removal and Installation23	9

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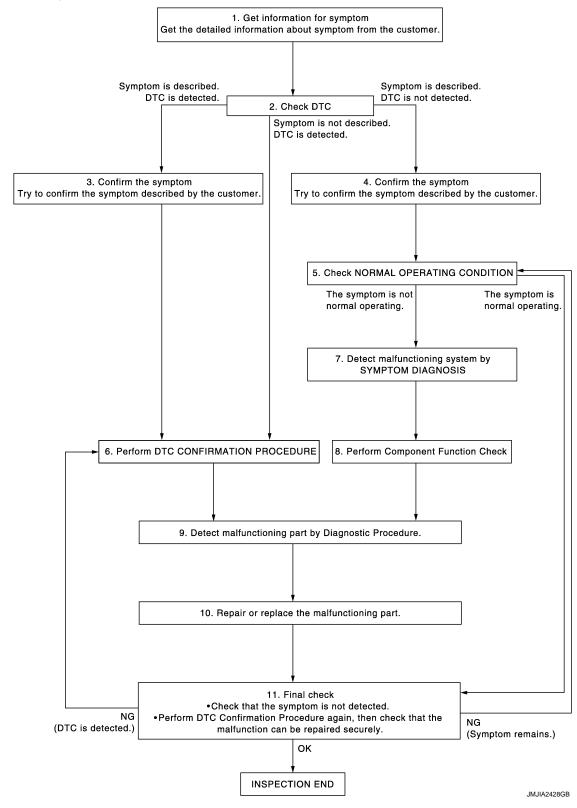
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# **BASIC INSPECTION**

# DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

#### **OVERALL SEQUENCE**



### **DIAGNOSIS AND REPAIR WORKFLOW** < 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" with CONSULT-III. Refer to ADP-200, "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-231, "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? >> GO TO 8. YES NO >> Check intermittent incident, Refer to GI-43, "Intermittent Incident", $7.\mathsf{DETECT}$ MALFUNCTIONING SYSTEM BY SYMPTOM DIAGNOSIS Detect malfunctioning system according to SYMPTOM DIAGNOSIS based on the confirmed symptom in step 4, and determine the trouble diagnosis order based on possible causes and symptom. M >> GO TO 8. 8.PERFORM COMPONENT FUNCTION CHECK Perform the component function check for the isolated malfunctioning point.

>> GO TO 9.

# 9. DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

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

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>> GO TO 10.

# 10. REPARE OR REPLACE

Repair or replace the malfunctioning part.

# **DIAGNOSIS AND REPAIR WORKFLOW**

#### < BASIC INSPECTION >

>> GO TO 11.

# 11. FINAL CHECK

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

#### Are all malfunctions corrected?

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

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

Function	Condition	Procedure
Memory (Seat, steering, mirror)	Erased	Perform memory storing
Intelligent Key interlock	Erased	Perform memory storing
Seat synchronization	OFF	_

#### NOTE:

When disconnecting the battery terminal or replacing the driver seat control unit, DTC, registered items of memory storing, and details of system setting detected in the past are erased. Perform operation after checking the contents.

# ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL: Special Repair Requirement

# 1.SYSTEM INITIALIZATION

Perform system initialization. Refer to ADP-10, "SYSTEM INITIALIZATION: Description".

>> GO TO 2.

## 2. SYSTEM SETTING

Perform system setting. Refer to ADP-11, "SYSTEM SETTING: Description".

>> GO TO 3.

#### 3. MEMORY STORING

Perform memory storing. Refer to ADP-10, "MEMORY STORING: Description".

#### >> 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 memory storing
Intelligent Key interlock	Erased	Perform memory storing
Seat synchronization	OFF	_

#### NOTE:

When disconnecting the battery terminal or replacing the driver seat control unit, DTC, registered items of memory storing, and details of system setting detected in the past are erased. Perform operation after checking the contents.

# ADDITIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement

# 1.SYSTEM INITIALIZATION

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INFOID:0000000006454984

#### < BASIC INSPECTION >

Perform system initialization. Refer to ADP-10, "SYSTEM INITIALIZATION: Description".

>> GO TO 2.

# 2. SYSTEM SETTING

Perform system setting. Refer to ADP-11, "SYSTEM SETTING: Description".

>> GO TO 3.

# ${f 3.}$ MEMORY STORING

Perform memory storing. Refer to ADP-10, "MEMORY STORING: Description".

>> END

#### SYSTEM INITIALIZATION

#### SYSTEM INITIALIZATION: Description

When disconnecting battery negative terminal or replacing control unit, always perform the system initialization. Otherwise, the backward operation for power walk-in function does not activate normally.

#### SYSTEM INITIALIZATION: Special Repair Requirement

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INFOID:0000000006454985

#### **INITIALIZATION PROCEDURE**

**1.** STEP-1

Slide the seat to the front edge.

#### NOTE:

- STEP-1 is the initialization procedure for power walk-in function.
- If the seat sliding position is already at the front edge, slide the seat rearward once, and then slide it to the front edge again.

>> END

#### MEMORY STORING

# MEMORY STORING: Description

INFOID:0000000006454987

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

# MEMORY STORING: Special Repair Requirement

INFOID:0000000006454988

#### 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

Shift AT selector lever to P position (AT model) or applied parking brake (MT model).

>> GO TO 2.

#### **2.**STEP 2

Turn ignition switch ON.

>> GO TO 3.

#### 3.STEP 3

Adjust driver seat, steering column and outside mirror position manually.

Revision: 2011 December ADP-10 2011 G Coupe

< BASIC INSPECTION >	
>> GO TO 4.	
4.STEP 4	
1. Push set switch.	
<ul> <li>NOTE:</li> <li>• Memory indicator for which driver seat position is already retained in memory is illuminated for</li> </ul>	5 sec-
onds.	
<ul> <li>Memory indicator for which driver seat position is not retained in memory is illuminated for 0.5 sec</li> <li>Push the memory switch (1 or 2) for at least 1 second within 5 seconds after pushing the set switch NOTE:</li> </ul>	oria.
If memory is stored in the same memory switch, the previous memory will be deleted.	
Do you need linking of Intelligent Key?  YES >> GO TO 6.	
NO >> GO TO 5.	
<b>5.</b> STEP 5	
Confirm the operation of each part with memory operation.	
>> END	
6.STEP 6	
Turn ignition switch OFF (LOCK).	
>> GO TO 7.	
7.STEP 7	
<ul> <li>Press and release set switch. Memory switch indicator is illuminated for 5 seconds. During memory indicator is illuminated, press Intelligent Key unlock button while pressing memory switch 1 or 2.</li> </ul>	switch
NOTE:	
Memory switch indicator lamp blinks for 5 seconds when registration is complete.	A
>> GO TO 8.	
8.STEP 8	
Confirm the operation of each part with memory operation and Intelligent Key interlock operation.	
>> END SYSTEM SETTING	
SYSTEM SETTING : Description	0006454989
The setting of the automatic driving positioner system can be changed using the set switch.	
SYSTEM SETTING: Special Repair Requirement	0006454990
SETTING PROCEDURE	
1.STEP-1	
Set the vehicle to the following condition.	
• Ignition position: ACC	
A/T selector lever: P position (A/T models)	
Parking brake: Applied only (M/T models)	
>> GO TO 2.	
<b>2.</b> STEP-2	

Press set switch and hold for more than 10 seconds, then confirm blinking of the memory switch indicator.

#### < BASIC INSPECTION >

- Seat synchronization are ON: Memory switch indicator blink two times.
- Seat synchronization are OFF : Memory switch indicator blink once.

#### NOTE:

• After memory setting registration, by pushing set switch for approximately 10 seconds, memory switch indicator lamp turns 4 seconds. turns OFF, blinks 1 or 2 times, and then the switching operation is complete. Push and hold set switch during the switching operation.

>> END.

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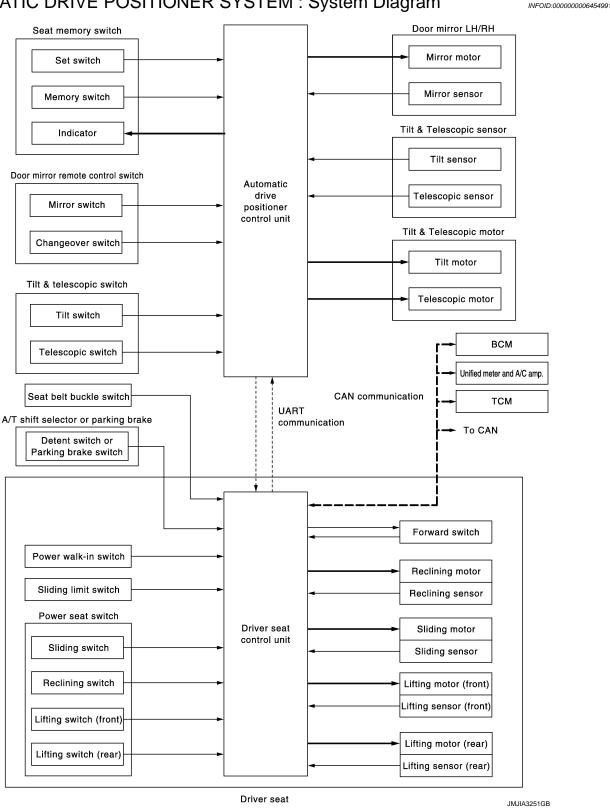
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# SYSTEM DESCRIPTION

# AUTOMATIC DRIVE POSITIONER SYSTEM AUTOMATIC DRIVE POSITIONER SYSTEM

AUTOMATIC DRIVE POSITIONER SYSTEM: System Diagram



#### < SYSTEM DESCRIPTION >

# AUTOMATIC DRIVE POSITIONER SYSTEM: System Description

INFOID:0000000006454992

#### **OUTLINE**

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.

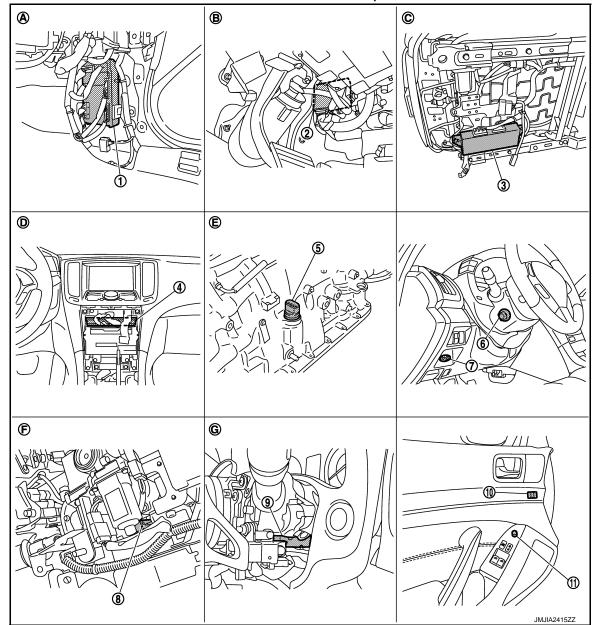
Function	Description
Manual function	The driving position (seat, steering column and door mirror position) can be adjusted by using the power seat switch, tilt & telescopic switch or door mirror remote control switch.
Seat synchronization function	The positions of the steering column and door mirror are adjusted to the proper position automatically while linking with manual operation [seat sliding, seat lifting (rear) or seat reclining].
Memory function	The seat, steering column and outside mirror move to the stored driving position by pressing seat memory switch (1 or 2).
Power walk-in function	The seat is made to advance when the seat back of driver seat is folded down and press the walk-in switch. The seat is made to retreat to former position when the seat back of driver seat is folded up and press the walk-in switch.
Intelligent Key interlock function	Perform memory operation, exiting operation and entry operation by Intelligent Key unlock operation or driver side door request switch unlock operation.

#### NOTE:

The lumbar support system and the side support system are controlled independently with no link to the automatic drive positioner system.

#### < SYSTEM DESCRIPTION >

# AUTOMATIC DRIVE POSITIONER SYSTEM : Component Parts Location INFOID-0000000064549933



- 1. BCM M118, M119, M122, M123
- 4. Unified meter and A/C amp. M67
- 7. Key slot M22
- 10. Seat memory switch D5
- A. Dash side lower (passenger side)
- D. Behind cluster lid C
- G View with steering column cover lower and upper removed

- Automatic drive positioner control unit 3. M51, M52
- 5. A/T assembly F51
- 8. Tilt sensor M48
- Door mirror remote control switch D17
- View with instrument driver lower panel removed (Remove 4WAS front control unit with 4WAS models)
- E. A/T assembly (TCM is built in A/T assembly)

- Driver seat control unit B503, B504
- 6. Tilt & telescopic switch M31
- 9. Telescopic sensor M48
- C. Backside of seat cushion (driver side)
- F. View with instrument driver lower panel removed

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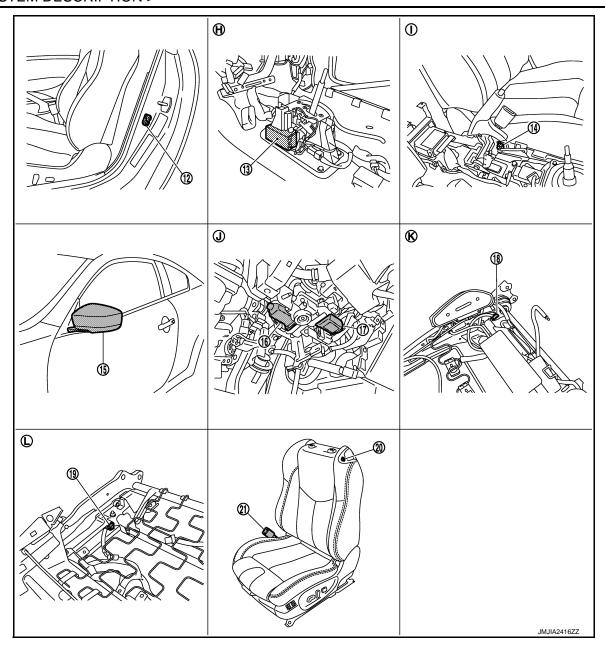
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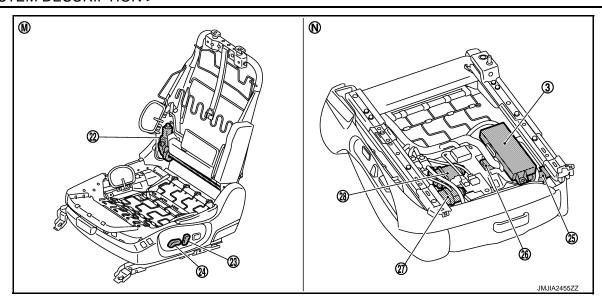


- 12. Driver side door switch B16
- 15. Door mirror (driver side)
- 18. Forward switch B512
- 21. Seat belt buckle switch (driver side)
- H. View with center console assembly is removed.
- K. View with seat back pad is removed. L.

- 13. A/T shift selector (detention switch) 14. Parking brake switch B14 M137
- 16. Telescopic motor M49
- 19. Sliding limit switch B514
- View with center console assembly is removed.
- View with seat cushion pad is removed.

- 17. Tilt motor M49
- 20. Power walk-in switch B513
- View with instrument driver lower panel is removed.

#### < SYSTEM DESCRIPTION >



- 22. Reclining motor B523
- 23. Reclining switch (Power seat switch) B510
- 25. Sliding sensor B526
- 26. Lifting motor (front) B527
- 24. Sliding, lifting switch (Power seat switch) B510
- 27. Sliding motor B525

- 28. Lifting motor (rear) B529
- M. View with seat cushion pad and seat- N. Backside of seat cushion back pad are removed.

# AUTOMATIC DRIVE POSITIONER SYSTEM : Component Description

INFOID:0000000006454994

#### **CONTROL UNITS**

Item	Function
Driver seat control unit	Main units of automatic drive positioner system.     It is connected to the CAN.     It communicates with the automatic drive positioner control unit via UART communication.
Automatic drive positioner control unit	<ul> <li>It communicates with the driver seat control unit via UART communication.</li> <li>Perform various controls with the instructions of driver seat control unit.</li> <li>Perform the controls of the tilt &amp; telescopic, door mirror and the seat memory switch.</li> </ul>
ВСМ	Transmit the following status to the driver seat control unit via CAN communication.  • Driver door: OPEN/CLOSE  • Ignition switch position: ACC/ON  • Door lock: UNLOCK (with Intelligent Key or driver side door request switch operation)  • Key ID  • Key switch: Insert/Pull out Intelligent Key  • Starter: CRANKING/OTHER
Unified meter and A/C amp.	Transmit the vehicle speed signal to the driver seat control unit via CAN communication.
TCM	Transmit the shift position signal (P range) to the driver seat control unit via CAN communication.

#### **INPUT PARTS**

**Switches** 

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#### < SYSTEM DESCRIPTION >

Item	Function
Key slot	The key switch is installed to detect the key inserted/removed status.
Driver side door switch	Detect front door (driver side) open/close status.
A/T shift selector (detention switch)	Detect the P range position of A/T selector lever. (A/T models)
Parking break switch	Detect the parking brake status. (M/T models)
Set switch	The registration and system setting can be performed with its operation.
Memory switch 1/2	The registration and operation can be performed with its operation.
Power seat switch	The following switch is installed.  Reclining switch  Lifting switch (front)  Lifting switch (rear)  Sliding switch  The specific parts can be operated with the operation of each switch.
Power walk-in switch	Perform the power walk-in operation by operating the power walk-in switch.
Sliding limit switch	Detect the front end position of seat sliding during the power walk-in function front-ward operation.
Seat belt buckle switch	Detect the seat belt fastening/releasing condition.
Forward switch	Detect the folded up/folded down condition of seatback that is the operation condition of power walk-in function.
Tilt & telescopic switch	The following switch is installed.  Tilt switch  Telescopic switch The specific parts can be operated with the operation of each switch.
Door mirror remote control switch	The following switch is installed.  • Mirror switch  • Changeover switch  The specific parts can be operated with the operation of each switch.

#### Sensors

Item	Function	
Door mirror sensor (driver side/passenger side)	Detect the upward/downward and leftward/rightward position of outside mirror face.	
Tilt & telescopic sensor	Detect the upward/downward and forward/backward position of steering column.	
Lifting sensor (front)	Detect the upward/downward position of seat lifting (front).	
Lifting sensor (rear)	Detect the upward/downward position of seat lifting (rear).	
Reclining sensor	Detect the tilt of seatback.	
Sliding sensor	Detect the forward/backward position of seat.	

#### **OUTPUT PARTS**

Item	Function	
Door mirror motor (driver side/passenger side)	Move the outside mirror face upward/downward and leftward/rightward.	
Tilt & telescopic motor	Move the steering column upward/downward and frontward/rearward.	
Lifting motor (front)	Move the seat lifting (front) upward/downward.	
Lifting motor (rear)	Move the seat lifting (rear) upward/downward.	
Reclining motor	Tilt and raise up the seatback.	
Sliding motor	Slide the seat forward/backward.	
Memory indicator	Illuminates or blinks according to the registration/operation status.	

## **SLEEP MODE**

• The seat control unit adopts the sleep mode to reduce the electric power consumption.

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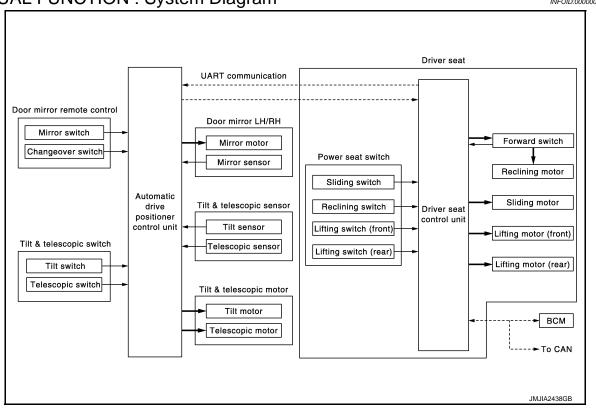
- The sleep mode is activated when all of the following condition are fulfilled.
- Ignition switch turn OFF (steering LOCK position)
- 2. No load is applied to the seat control
- 3. The seat control unit 45seconds timer in not activated
- 4. Set switch and memory switch (1 and 2) turn OFF

#### WAKE-UP MODE

- The sleep mode is cancelled when any status change is detected for the followings.
- 1. CAN communication
- Power seat switch
- 3. Set switch and memory switch (1 and 2)
- 4. Power walk-in switch
- 5. Door mirror switch
- 6. Steering column switch

#### MANUAL FUNCTION

MANUAL FUNCTION: System Diagram



# MANUAL FUNCTION: System Description

**OUTLINE** 

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**

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

#### **DETAIL FLOW**

Seat

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#### < SYSTEM DESCRIPTION >

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.

#### Tilt & Telescopic

Order	Input	Output	Control unit condition
1	Tilt & telescopic switch	_	The tilt & telescopic switch signals are inputted to the automatic drive positioner control unit when the tilt & telescopic switch are operated.
2	_	Motors (Tilt, telescopic)	The automatic drive positioner control unit actuates each motor according to the operation of the tilt & telescopic switch.
3	Sensors (Tilt, telescopic)	_	The automatic drive positioner control unit recognizes any operation limit of each actuator via each sensor and will not operate the actuator anymore at that time.*

<sup>\*:</sup> Tilt does not operates upward when tilt sensor value is less than 1.1 V, tilt does not operate downward when the sensor value is more than 3.9 V. Telescopic does not operates backward when telescopic sensor value is less than 0.5 V, telescopic does not operate forward when the sensor value is more than 4.5 V.

#### 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 signal from the door mirror remote control switch.
3	Sensors (Mirror)	_	The automatic drive positioner control unit monitors the input of mirror sensor. It stops the operation if the input reaches the operation limit.

#### NOTE:

The door mirrors can be operated manually when ignition switch is in either ACC or ON position. The ignition switch signal (ACC/ON) is transmitted from BCM to the driver seat control unit via CAN communication and from the driver seat control unit to the automatic drive positioner control unit via UART communication.

#### < SYSTEM DESCRIPTION >

# MANUAL FUNCTION : Component Parts Location

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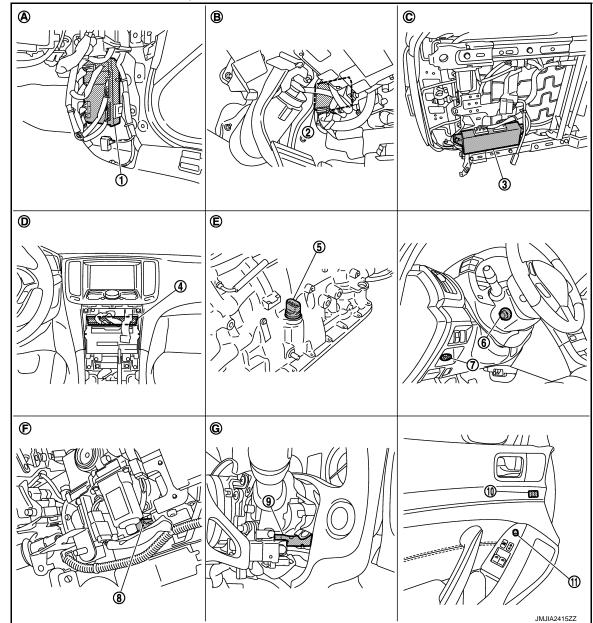
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- 1. BCM M118, M119, M122, M123
- 4. Unified meter and A/C amp. M67
- 7. Key slot M22
- Seat memory switch
   D5
- A. Dash side lower (passenger side)
- D. Behind cluster lid C
- G View with steering column cover lower and upper removed

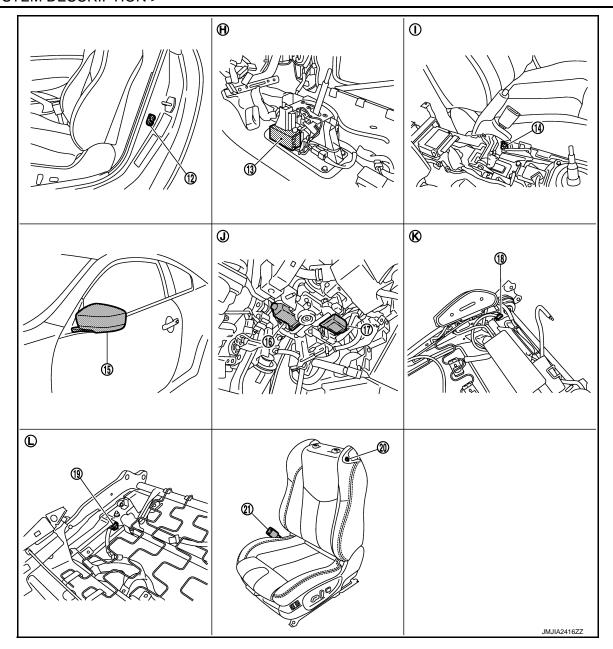
- Automatic drive positioner control unit 3. M51, M52
- 5. A/T assembly F51
- 8. Tilt sensor M48
- Door mirror remote control switch D17
- B. View with instrument driver lower panel removed (Remove 4WAS front control unit with 4WAS models)
- E. A/T assembly (TCM is built in A/T assembly)

- Driver seat control unit B503, B504
- 6. Tilt & telescopic switch M31
- 9. Telescopic sensor M48
- C. Backside of seat cushion (driver side)
- View with instrument driver lower panel removed

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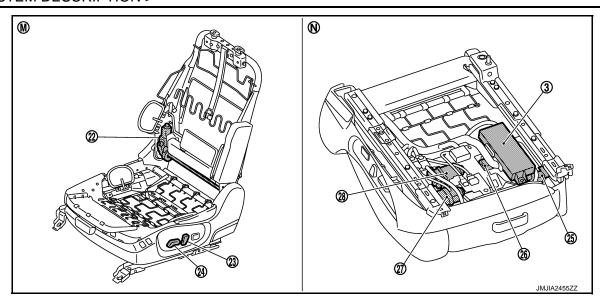


- 12. Driver side door switch B16
- 15. Door mirror (driver side)
- 18. Forward switch B512
- 21. Seat belt buckle switch (driver side)
- H. View with center console assembly is removed.
- K. View with seat back pad is removed. L.

- 13. A/T shift selector (detention switch) 14. Parking brake switch B14 M137
- 16. Telescopic motor M49
- 19. Sliding limit switch B514
- View with center console assembly is removed.
- View with seat cushion pad is removed.

- 17. Tilt motor M49
- 20. Power walk-in switch B513
- View with instrument driver lower panel is removed.

#### < SYSTEM DESCRIPTION >



- 22. Reclining motor B523
- 23. Reclining switch (Power seat switch) B510
- 25. Sliding sensor B526 26. Lifting motor (front) B527
- 24. Sliding, lifting switch (Power seat switch) B510
- 27. Sliding motor B525

- 28. Lifting motor (rear) B529
- M. View with seat cushion pad and seat- N. Backside of seat cushion back pad are removed.

# MANUAL FUNCTION: Component Description

#### **CONTROL UNITS**

Item	Function	
Driver seat control unit	<ul> <li>Operates the specific seat motor with the signal from the power seat switch.</li> <li>Transmits the ignition switch signal (ACC/ON) via UART communication to the automatic drive positioner control unit.</li> </ul>	
Automatic drive positioner control unit	Operates the specific motor with the signal from tilt & telescopic switch or door mit ror remote control switch.	
BCM	Recognizes the following status and transmits it to the driver seat control unit via CAN communication.  • Ignition position: ACC/ON	

#### **INPUT PARTS**

#### **Switches**

ltem	Function	
Power seat switch	The following switch is installed.  Reclining switch  Lifting switch (front)  Lifting switch (rear)  Sliding switch  The specific parts can be operated with the operation of each switch.	
Tilt & telescopic switch	The following switch is installed.  Tilt switch  Telescopic switch  The specific parts can be operated with the operation of each switch.	

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Revision: 2011 December ADP-23 2011 G Coupe

# < SYSTEM DESCRIPTION >

Item	Function
Forward switch	Detect folded down or folded up of the seat back.
Door mirror remote control switch	The following switch is installed.  • Mirror switch  • Changeover switch  The specific parts can be operated with the operation of each switch.

#### Sensors

Item	Function
Tilt & telescopic sensor	Detect the upward/downward & forward/backward position of steering column.
Door mirror sensor (driver side / passenger side)	Detect the upward/downward and leftward/rightward position of outside mirror face.

#### **OUTPUT PARTS**

Item	Function	
Door mirror motor (driver side/passenger side)	Move the outside mirror face upward/downward and leftward/rightward.	
Tilt & telescopic motor	Move the steering column upward/downward and forward/backward.	
Lifting motor (front)	Move the seat lifter (front) upward/downward.	
Lifting motor (rear)	Move the seat lifter (rear) upward/downward.	
Reclining motor	Tilt and raise up the seatback.	
Sliding motor	Slide the seat forward/backward.	

# SEAT SYNCHRONIZATION FUNCTION

# SEAT SYNCHRONIZATION FUNCTION : System Diagram

INFOID:0000000006454999 Driver seat **UART** communication Forward switch Door mirror LH/RH Reclining motor Reclining sensor Mirror motor Automatic Mirror sensor drive Driver seat Power seat switch control unit Sliding motor positioner control unit Sliding sensor Tilt & Telescopic sensor Sliding switch Tilt sensor Reclining switch Lifting motor (rear) Telescopic sensor Lifting sensor (rear) Lifting switch (rear) Tilt & Telescopic motor Tilt motor Telescopic motor

SEAT SYNCHRONIZATION FUNCTION: System Description

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**OUTLINE** 

#### < SYSTEM DESCRIPTION >

The steering column position and door mirror position is adjusted to the position automatically according to the direction and distance of seat movement when performing the manual operation of sliding, reclining or lifting (rear). This function saves adjusting the mirror and steering column when adjusting the seat.

#### NOTE:

This function is set to OFF before delivery. (initial setting)

For the system setting procedure. Refer to ADP-11, "SYSTEM SETTING: Description".

#### OPERATION PROCEDURE

- 1. Turn ignition switch ON.
- 2. Adjust seat position [sliding, reclining, lifting (rear)].
- The steering and outside mirror is adjusted automatically.

#### NOTE:

• The seat synchronization function will not operate if seat adjusting value is more than limit value.

Item	Limit value
Seat sliding	76 mm
Seat reclining	9.1 degrees
Seat lifter (rear)	20 mm

- The seat synchronization function will not operate if the steering column or door mirror moves to the operating end while this function is operating. Perform memory function or drive the vehicle at vehicle speed of 7 km/h or more once to activate this function again.
- If the seat position is uncomfortable after the adjustment, seat position can be adjusted easily by memory operation.

#### **OPERATION CONDITION**

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

Item	Request status
System setting	ON
Ignition position	ON
Seat back	Folded up
A/T selector lever (A/T models)	P position
Parking break (M/T models)	Applied
Switch inputs  Power seat switch  Tilt & telescopic switch  Door mirror remote control switch  Set switch  Memory switch	OFF (Not operated)

#### **DETAIL FLOW**

When performing the sliding, reclining or lifting (rear) operation in manual function, the driver seat control unit performs the seat synchronization function as follows.

Order	Input	Output	Control unit condition
1	Sensors [Sliding, reclining, lifting (rear)]	_	The driver seat control unit judges the direction and distance of seat movement according to the signal input from each seat sensor during manual operation.
2	_	Motors (Tilt, telescopic, outside mirror)	Driver seat control unit requests the operation to position according to the direction and distance of seat movement to the automatic drive positioner control unit via UART communication. The automatic drive positioner control unit operates each motor.
	Sensors (Tilt, telescopic, outside mirror)	_	Driver seat control unit stops the operation of each motor when the value of each sensor that is input to automatic drive positioner control unit via UART communication reaches the target address.

Revision: 2011 December ADP-25 2011 G Coupe

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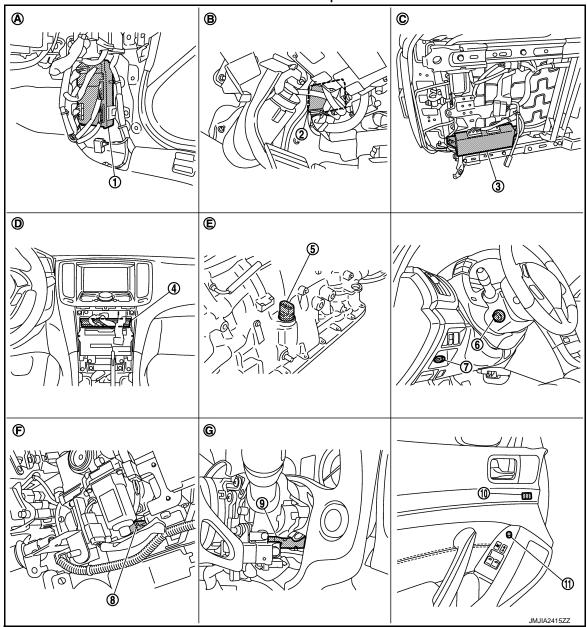
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#### < SYSTEM DESCRIPTION >

# SEAT SYNCHRONIZATION FUNCTION: Component Parts Location

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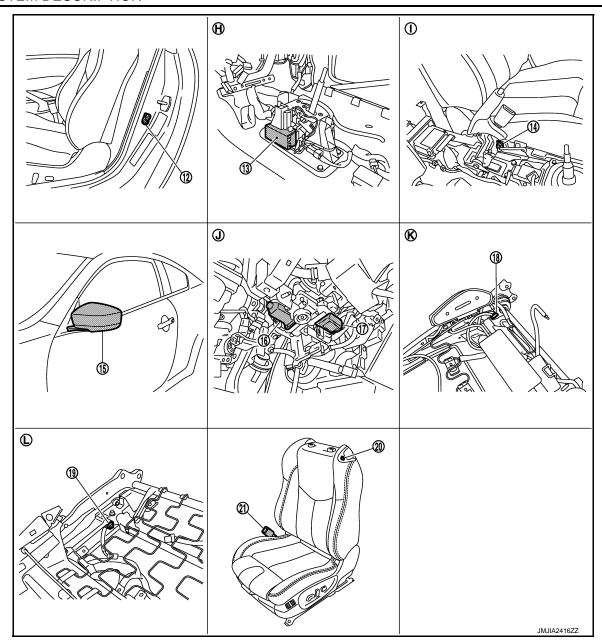


- 1. BCM M118, M119, M122, M123
- 4. Unified meter and A/C amp. M67
- 7. Key slot M22
- 10. Seat memory switch D5
- A. Dash side lower (passenger side)
- D. Behind cluster lid C
- G View with steering column cover lower and upper removed

- Automatic drive positioner control unit 3. M51, M52
- 5. A/T assembly F51
- 8. Tilt sensor M48
- Door mirror remote control switch D17
- View with instrument driver lower panel removed (Remove 4WAS front control unit with 4WAS models)
- E. A/T assembly (TCM is built in A/T assembly)

- Driver seat control unit B503, B504
- 6. Tilt & telescopic switch M31
- 9. Telescopic sensor M48
- C. Backside of seat cushion (driver side)
- View with instrument driver lower panel removed

#### < SYSTEM DESCRIPTION >



- 12. Driver side door switch B16
- 15. Door mirror (driver side)
- 18. Forward switch B512
- 21. Seat belt buckle switch (driver side) B13
- H. View with center console assembly is removed.
- K. View with seat back pad is removed. L.

- A/T shift selector (detention switch)
   M137
- 16. Telescopic motor M49
- 19. Sliding limit switch B514
- . View with center console assembly is removed.
- View with seat cushion pad is removed.

- 14. Parking brake switch B14
- 17. Tilt motor M49
- 20. Power walk-in switch B513
- J. View with instrument driver lower panel is removed.

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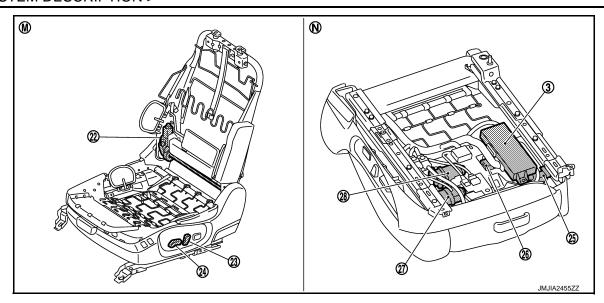
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#### < SYSTEM DESCRIPTION >



- 22. Reclining motor B523
- 23. Reclining switch (Power seat switch) B510
- 25. Sliding sensor B526
- 26. Lifting motor (front) B527
- 24. Sliding, lifting switch (Power seat switch) B510
- 27. Sliding motor B525

- 28. Lifting motor (rear) B529
- M. View with seat cushion pad and seat- N. Backside of seat cushion back pad are removed.

# SEAT SYNCHRONIZATION FUNCTION: Component Description

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#### **CONTROL UNITS**

Item	Function
Driver seat control unit	Operates the specific seat motor with the signal from the power seat switch.
Automatic drive positioner control unit	Operates the steering motor and door mirror with the signal from the driver seat control unit.

#### **INPUT PARTS**

#### **Switches**

Item	Function	
Power seat switch	The following switch is installed.  Reclining switch  Lifting switch (front)  Lifting switch (rear)  Sliding switch  The specific parts can be operated with the operation of each switch.	
Forward switch	Detect folded down or folded up of the seat back.	

#### Sensors

Item	Function
Door mirror sensor (driver side/passenger side)	Detect the upward/downward and leftward/rightward position of outside mirror face.
Tilt & telescopic sensor	Detect the upward/downward and forward/backward position of steering column.
Lifting sensor (rear)	Detect the upward/downward position of seat lifter (rear).

#### < SYSTEM DESCRIPTION >

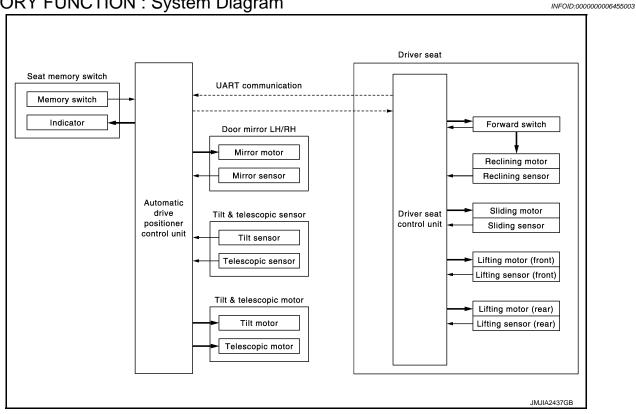
Item	Function
Reclining sensor	Detect the tilt of seatback.
Sliding sensor	Detect the frontward/rearward position of seat.

#### **OUTPUT PARTS**

Item	Function
Door mirror motor (driver side/passenger side)	Move the outside mirror face upward/downward and leftward/rightward.
Tilt & telescopic motor	Move the steering column upward/downward and forward/backward.
Lifting motor (rear)	Move the seat lifter (rear) upward/downward.
Reclining motor	Tilt and raise up the seatback.
Sliding motor	Slide the seat forward/backward.

#### MEMORY FUNCTION

# **MEMORY FUNCTION: System Diagram**



# **MEMORY FUNCTION: System Description**

#### **OUTLINE**

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 for more than 0.5 second) operation allows changing to the other driving position.

Further information for the memory storing procedure. Refer to ADP-10, "MEMORY STORING: Description".

#### OPERATION PROCEDURE

- Turn ignition switch ON
- 2. Press desired memory switch for more than 0.5 second.
- Driver seat, steering and door mirror will move to the memorized position.

#### **OPERATION CONDITION**

**ADP-29** Revision: 2011 December 2011 G Coupe

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# < SYSTEM DESCRIPTION >

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

Item	Request status
Ignition position	ON
Seat back	Folded up
A/T selector lever (A/T models)	P position
Parking break (M/T models)	Applied
Switch inputs Power seat switch Tilt & telescopic switch Door mirror control switch Set switch Memory switch	OFF (Not operated)

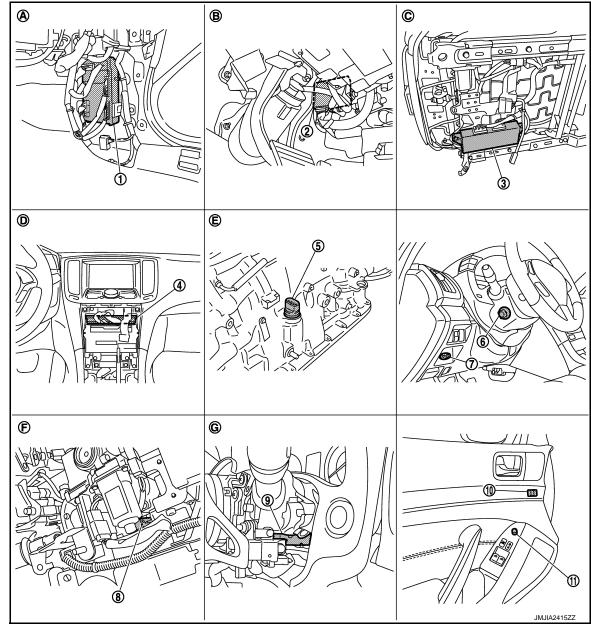
#### **DETAIL FLOW**

Order	Input	Output	Control unit condition
1	Memory switch	_	The memory switch signal is inputted to the automatic drive positioner control unit when memory switch 1 or 2 is operated.  Memory switch signal is output to driver seat control unit via UART communication.
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 to automatic drive positioner control unit via UART communication while either of the motors is operating. The automatic drive positioner control unit illuminates the memory indicator.
3	Sensors (Seat, steering, door mirror)	_	Driver seat control unit judges the operating seat position with each seat sensor input. The positions of the steering column and outside mirror are monitored with each sensor signal that is input from auto drive positioner control unit via UART communication. Driver seat control unit stops the operation of each motor when each part reaches the recorded address.
4	_	Memory switch Indicator	Driver seat control unit requests the illumination of memory indicator to auto drive positioner control unit via UART communication after all motors stop. The auto driving positioner control unit illuminates the memory indicator for 5 seconds.

#### < SYSTEM DESCRIPTION >

# MEMORY FUNCTION : Component Parts Location

INFOID:0000000006455005



- 1. BCM M118, M119, M122, M123
- 4. Unified meter and A/C amp. M67
- 7. Key slot M22
- 10. Seat memory switch D5
- A. Dash side lower (passenger side)
- D. Behind cluster lid C
- G View with steering column cover lower and upper removed

- Automatic drive positioner control unit 3. M51, M52
- 5. A/T assembly F51
- 8. Tilt sensor M48
- Door mirror remote control switch D17
- View with instrument driver lower panel removed (Remove 4WAS front control unit with 4WAS models)
- E. A/T assembly (TCM is built in A/T assembly)

- Driver seat control unit B503, B504
- 6. Tilt & telescopic switch M31
- 9. Telescopic sensor M48
- C. Backside of seat cushion (driver side)
- View with instrument driver lower panel removed

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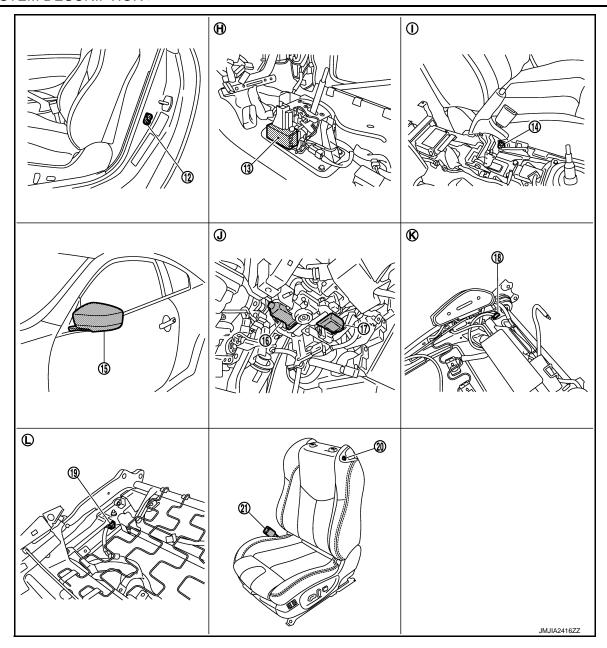
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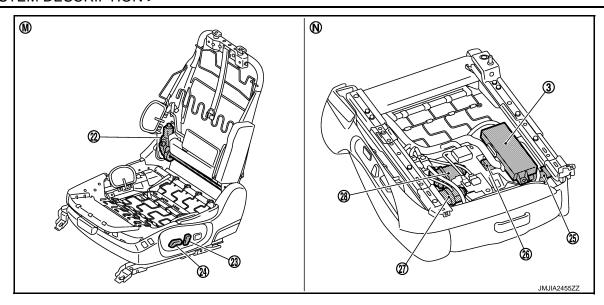


- 12. Driver side door switch B16
- 15. Door mirror (driver side)
- 18. Forward switch B512
- 21. Seat belt buckle switch (driver side)
- H. View with center console assembly is removed.
- K. View with seat back pad is removed. L.

- 13. A/T shift selector (detention switch) 14. Parking brake switch B14 M137
- 16. Telescopic motor M49
- 19. Sliding limit switch B514
- View with center console assembly is removed.
- View with seat cushion pad is removed.

- 17. Tilt motor M49
- 20. Power walk-in switch B513
- View with instrument driver lower panel is removed.

#### < SYSTEM DESCRIPTION >



- 22. Reclining motor B523
- 23. Reclining switch (Power seat switch) B510
- 25. Sliding sensor B526
- 26. Lifting motor (front) B527
- 24. Sliding, lifting switch (Power seat switch) B510
- 27. Sliding motor B525

- 28. Lifting motor (rear) B529
- M. View with seat cushion pad and seat- N. Backside of seat cushion back pad are removed.

# MEMORY FUNCTION: Component Description

#### **CONTROL UNITS**

Item	Function
Driver seat control unit	<ul> <li>The address of each part is recorded.</li> <li>Operates each motor of seat to the registered position.</li> <li>Requests the operations of steering column and door mirror to automatic drive positioner control unit</li> </ul>
Automatic drive positioner control unit	Operates the steering column and door mirror with the signal from the driver seat control.

#### **INPUT PARTS**

#### **Switches**

Item	Function
Memory switch 1/2	The registration and memory function can be performed with its operation.
Forward switch	Detect folded down or folded up of the seat back.

#### Sensors

Item	Function
Door mirror sensor (driver side/passenger side)	Detect the upward/downward and leftward/rightward position of outside mirror face.
Tilt & telescopic sensor	Detect the upward/downward and forward/backward position of steering column.
Lifting sensor (front)	Detect the upward/downward position of seat lifting (front).
Lifting sensor (rear)	Detect the upward/downward position of seat lifting (rear).

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#### < SYSTEM DESCRIPTION >

Item	Function
Reclining sensor	Detect the tilt of seatback.
Sliding sensor	Detect the forward/backward position of seat.

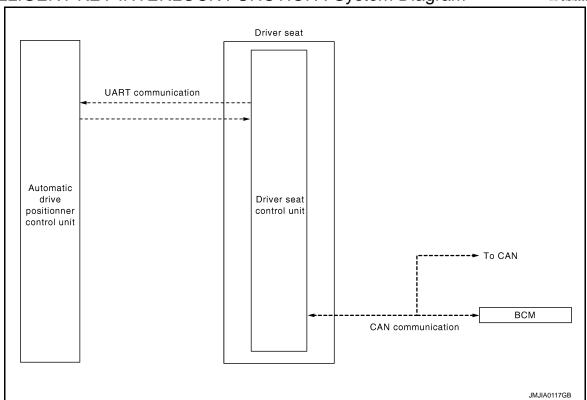
#### **OUTPUT PARTS**

Item	Function		
Door mirror motor (driver side/passenger side)	Move the outside mirror face upward/downward and leftward/rightward.		
Tilt & telescopic motor	Move the steering column upward/downward and forward/backward.		
Lifting motor (front)	Move the seat lifter (front) upward/downward.		
Lifting motor (rear)	Move the seat lifter (rear) upward/downward.		
Reclining motor	Tilt and raise up the seatback.		
Sliding motor	Slide the seat forward/backward.		
Memory indicator	Illuminates or blinks according to the registration/operation status.		

## INTELLIGENT KEY INTERLOCK FUNCTION

# INTELLIGENT KEY INTERLOCK FUNCTION: System Diagram

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# INTELLIGENT KEY INTERLOCK FUNCTION: System Description

INFOID:0000000006455008

#### **OUTLINE**

When unlocking doors by using Intelligent Key or driver side door request switch, the system performs memory operation.

#### **OPERATION PROCEDURE**

- 1. Unlock doors by using Intelligent Key or driver side door request switch.
- 2. The system performs memory operation, and then performs exit assist operation.

#### NOTE

If the seat position is in memorized position before unlocking doors, memory operation does not perform. **NOTE:** 

#### < SYSTEM DESCRIPTION >

Further information for Intelligent Key interlock function. Refer to <u>ADP-10, "MEMORY STORING: Description"</u>.

#### **OPERATION CONDITION**

Satisfy all of the following items. The Intelligent Key interlock function is performed if these items are satisfied.

Item	Request status	
Key switch	OFF (Key is removed.)	
Ignition position	LOCK	
Seat back	Folded up	
A/T selector lever (A/T models)	P position	
Parking break (M/T models)	Applied	
Switch inputs  Power seat switch  Tilt & telescopic switch  Door mirror control switch  Set switch  Memory switch	OFF (Not operated)	

#### **DETAIL FLOW**

Order	Input	Output	Control unit condition
1	Door unlock signal (CAN)     Key ID signal (CAN)	_	Driver seat control unit receives the door unlock signal and the key ID signal from BCM when unlocking the door with Intelligent Key or driver side door request switch.
2	_	_	Driver seat control unit performs the memory function.

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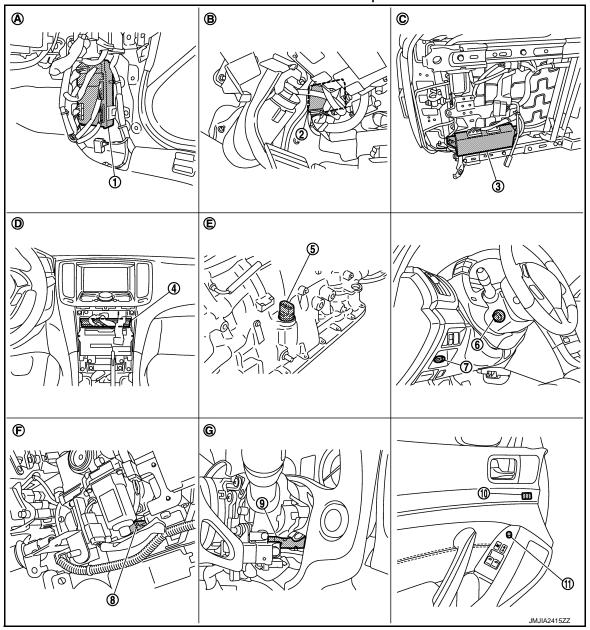
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#### < SYSTEM DESCRIPTION >

# INTELLIGENT KEY INTERLOCK FUNCTION: Component Parts Location INFOID-00000006455009

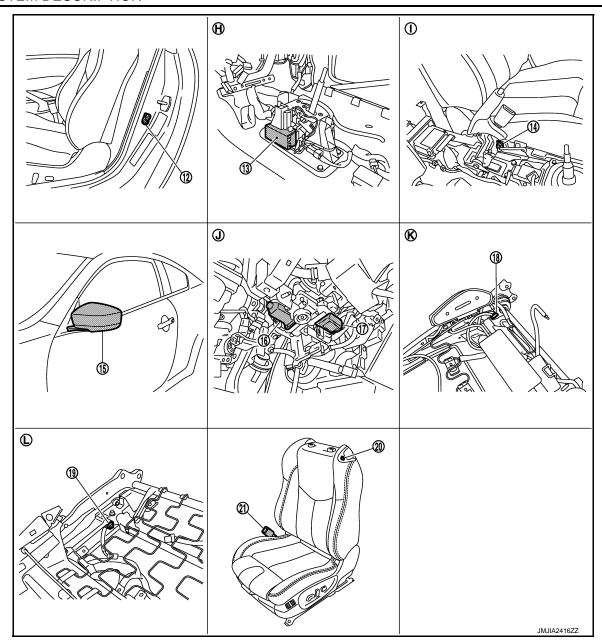


- 1. BCM M118, M119, M122, M123
- 4. Unified meter and A/C amp. M67
- 7. Key slot M22
- 10. Seat memory switch D5
- A. Dash side lower (passenger side)
- D. Behind cluster lid C
- G View with steering column cover lower and upper removed

- Automatic drive positioner control unit 3. M51, M52
- 5. A/T assembly F51
- 8. Tilt sensor M48
- Door mirror remote control switch D17
- View with instrument driver lower panel removed (Remove 4WAS front control unit with 4WAS models)
- E. A/T assembly (TCM is built in A/T assembly)

- Driver seat control unit B503, B504
- 6. Tilt & telescopic switch M31
- 9. Telescopic sensor M48
- C. Backside of seat cushion (driver side)
- View with instrument driver lower panel removed

#### < SYSTEM DESCRIPTION >



- 12. Driver side door switch B16
- 15. Door mirror (driver side)
- 18. Forward switch B512
- 21. Seat belt buckle switch (driver side) B13
- H. View with center console assembly is removed.
- K. View with seat back pad is removed. L.

- A/T shift selector (detention switch)
   M137
- 16. Telescopic motor M49
- 19. Sliding limit switch B514
- . View with center console assembly is removed.
- View with seat cushion pad is removed.

- 14. Parking brake switch B14
- 17. Tilt motor M49
- 20. Power walk-in switch B513
- J. View with instrument driver lower panel is removed.

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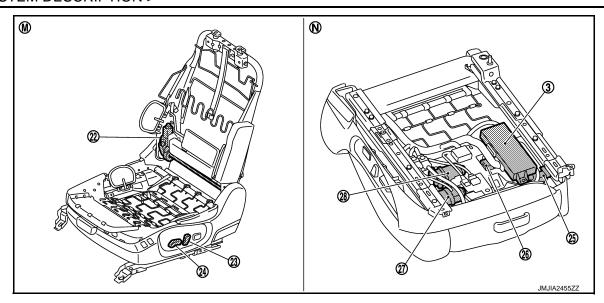
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#### < SYSTEM DESCRIPTION >



- 22. Reclining motor B523
- 23. Reclining switch (Power seat switch) B510
- 25. Sliding sensor B526
- 26. Lifting motor (front) B527
- 24. Sliding, lifting switch (Power seat switch) B510
- 27. Sliding motor B525

- 28. Lifting motor (rear) B529
- M. View with seat cushion pad and seat- N. Backside of seat cushion back pad are removed.

## INTELLIGENT KEY INTERLOCK FUNCTION : Component Description

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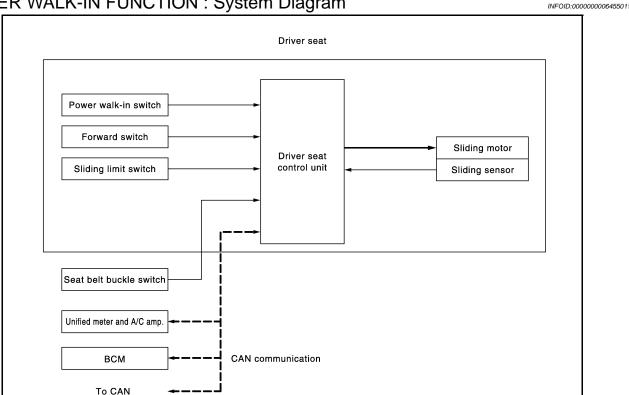
#### **CONTROL UNITS**

Item	Function		
Driver seat control unit	It performs memory function after receiving the door unlock signal from BCM.		
Automatic drive positioner control unit	Operates the steering column and door mirror with the instructions from the driver seat control unit.		
ВСМ	Recognizes the following status and transmits it to the driver seat control unit via CAN communication.  • Door lock: UNLOCK (with Intelligent Key or driver side door request swtich)		

### POWER WALK-IN FUNCTION

#### < SYSTEM DESCRIPTION >

### POWER WALK-IN FUNCTION: System Diagram



### POWER WALK-IN FUNCTION: System Description

#### OUTLINE

Slide the driver seat automatically with the power walk-in switch operation so as to easily facilitate the entry to the rear seat.

#### Forward Operation

Slide (forward) the driver seat to the front end position (sliding limit switch: ON) by operating the power walk-in switch when the seatback is folded down.

The forward operation is stopped by folding the seatback (forward switch: OFF) during the forward operation.

#### **Backward Operation**

The seat back is folded up after performing the forward operation of power walk-in function. Slide (backward) it to the position before performing the forward operation by operating the power walk-in switch.

If the manual operation, memory operation, and Intelligent Key interlock operation are performed after performing the forward operation, do not perform the backward operation.

#### **OPERATION PROCEDURE**

#### **Forward Operation**

- Open driver door.
- 2. Pull the walk-in lever on the upper part of seatback, and then the seatback is folded down.
- Press the power walk-in switch.
- 4. Slide the seat to the front end position.

#### **Backward Operation**

- Open driver door.
- 2. Fold up the seatback after performing the forward operation.
- Press the power walk-in switch.
- Slide the seat to the previous position before the forward operation was performed.

#### OPERATION CONDITION

Perform the power walk-in function when the following conditions are satisfied.

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**ADP-39** 

### < SYSTEM DESCRIPTION >

### Forward Operation

Item	Request status
Driver side door	Open
Driver side seat belt	Not fastened
Power seat switch (sliding)	Not operated
Vehicle speed	0 km/h
Seat position (sliding)	Other than front end
Seat back	Folded down

#### **Backward Operation**

Item	Request status
Initialize	Done
Driver side seat belt	Not fastened
Switch inputs  • Power seat switch (sliding)  • Set switch  • Memory switch	Not operated
Vehicle speed	0 km/h
Seat position (sliding)	The seat sliding position will not move after performing the forward operation.
Seat back	Folded up

#### **DETAIL FLOW**

### Forward Operation

Order	Inputs	Outputs	Control unit condition
1	Forward switch	_	Driver seat control unit detects that the seatback is folded down by the signal from the forward switch.
2	Power walk-in switch	_	The operation signal is inputted to the driver seat control unit when the power walk-in switch is operated.
3	_	Sliding motor (forward)	Driver seat control unit operates the seat sliding motor forward when it detects that the power walkin switch is operated.
4	Sliding limit switch	_	Driver seat control unit stops the seat sliding motor when it detects that the seat sliding reaches the front end position by the sliding limit switch.

#### **Backward Operation**

Order	Inputs	Outputs	Control unit condition
1	Forward switch	_	Driver seat control unit detects that the seatback is folded up by the signal from the forward switch.
2	Power walk-in switch	_	The operation signal is inputted to the driver seat control unit when the power walk-in switch is operated.
3	_	Sliding motor (backward)	Driver seat control unit operates the sliding motor backward when it detects that the power walk-in switch is operated.
4	Sliding sensor	_	Driver seat control unit stops the seat sliding motor when the seat sliding position reaches the position before performing the forward operation by the signal from sliding sensor.

#### < SYSTEM DESCRIPTION >

## POWER WALK-IN FUNCTION : Component Parts Location

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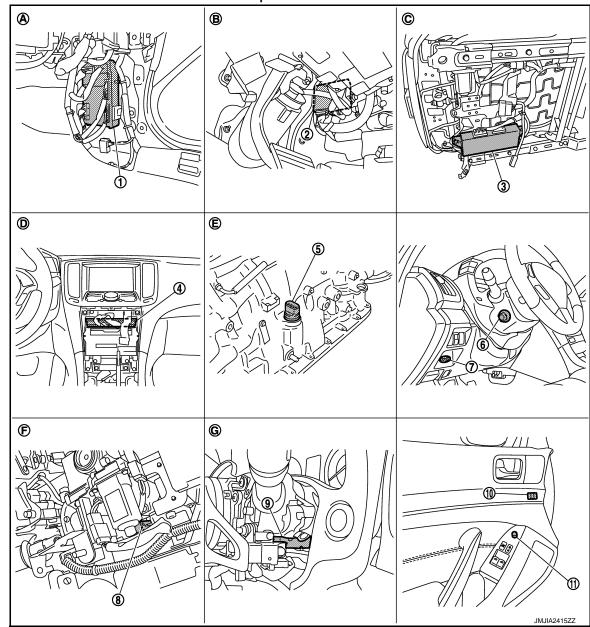
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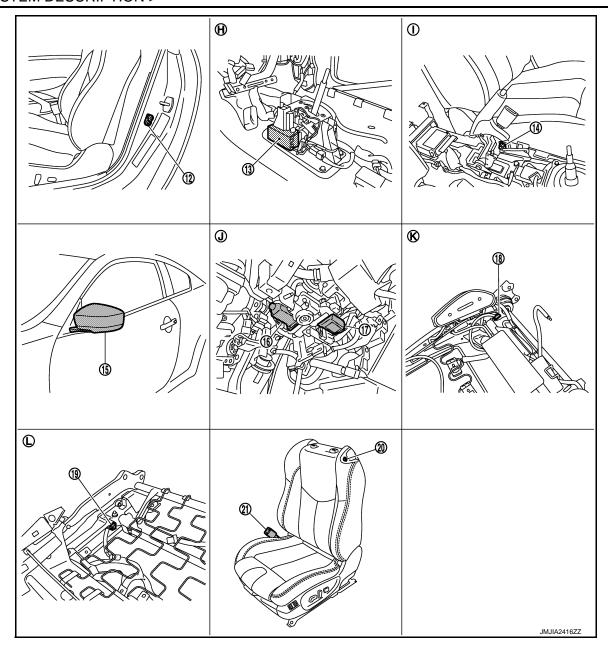
- I. BCM M118, M119, M122, M123
- 4. Unified meter and A/C amp. M67
- 7. Key slot M22
- Seat memory switch
   D5
- A. Dash side lower (passenger side)
- D. Behind cluster lid C
- G View with steering column cover lower and upper removed

- Automatic drive positioner control unit 3. M51, M52
- 5. A/T assembly F51
- 8. Tilt sensor M48
- Door mirror remote control switch D17
- B. View with instrument driver lower panel removed (Remove 4WAS front control unit with 4WAS models)
- E. A/T assembly (TCM is built in A/T assembly)

- Driver seat control unit B503, B504
- 6. Tilt & telescopic switch M31
- 9. Telescopic sensor M48
- C. Backside of seat cushion (driver side)
- View with instrument driver lower panel removed

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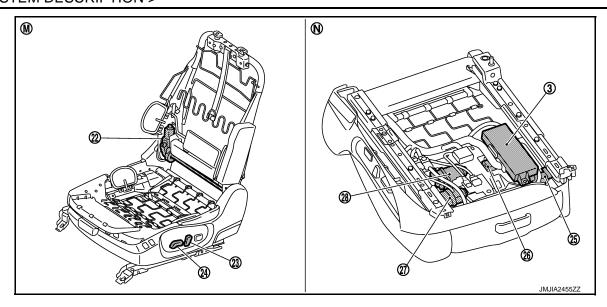


- 12. Driver side door switch B16
- 15. Door mirror (driver side)
- 18. Forward switch B512
- 21. Seat belt buckle switch (driver side)
- H. View with center console assembly is removed.
- K. View with seat back pad is removed. L.

- 13. A/T shift selector (detention switch) 14. Parking brake switch B14 M137
- 16. Telescopic motor M49
- 19. Sliding limit switch B514
- View with center console assembly is removed.
- View with seat cushion pad is removed.

- 17. Tilt motor M49
- 20. Power walk-in switch B513
- View with instrument driver lower panel is removed.

#### < SYSTEM DESCRIPTION >



- 22. Reclining motor B523
- 23. Reclining switch (Power seat switch) B510
- 25. Sliding sensor B526
- 26. Lifting motor (front) B527
- 24. Sliding, lifting switch (Power seat switch) B510
- 27. Sliding motor B525

- 28. Lifting motor (rear) B529
- M. View with seat cushion pad and seat- N. Backside of seat cushion back pad are removed.

### POWER WALK-IN FUNCTION: Component Description

### **CONTROL UNITS**

Item	Function			
Driver seat control unit	<ul> <li>Main units of automatic drive positioner system</li> <li>It is connected to the CAN.</li> <li>It communicates with the automatic drive positioner control unit via UART communication.</li> </ul>			
ВСМ	Transmit the following status to the driver seat control unit via CAN communication.  • Driver door: OPEN/CLOSE  • Starter: CRANKING/OTHER			
Unified meter and A/C amp.	Transmit the vehicle speed signal to the driver seat control unit via CAN communication.			

#### **INPUT PARTS**

#### **Switches**

Item	Function			
Front door switch (driver side)	Detect front door (driver side) open/close status.			
Power walk-in switch	Perform the power walk-in operation by operating the power walk-in switch.			
Sliding limit switch	Detect the front end position of seat sliding during the power walk-in function front-ward operation.			
Seat belt buckle switch	Detect the seat belt fastening/releasing condition.			
Forward switch	Detect the folded up/folded down condition of seatback that is the operation condition of power walk-in function.			

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ADP-43 Revision: 2011 December 2011 G Coupe

### < SYSTEM DESCRIPTION >

Item	Function
Sliding sensor	Detect the forward/backward position of seat.

#### **OUTPUT PARTS**

Item	Function			
Sliding motor	Slide the seat forward/backward.			

### **DIAGNOSIS SYSTEM (DRIVER SEAT C/U)**

#### < SYSTEM DESCRIPTION >

## DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

### **Diagnosis Description**

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

SULT-III.

DIAGNOSTIC MODE

Diagnostic mode	Description
SELF-DIAG RESULTS	Performs self-diagnosis for the auto drive positioner system and displays the results.
DATA MONITOR	Displays input signals transmitted from various switches and sensors to driver seat control unit in real time.
CAN DIAG SUPPORT MNTR	The result of transmit/receive diagnosis of CAN communication can be read.
ACTIVE TEST	Drives each output device.
ECU PART NUMBER	Displays part numbers of driver seat control unit.

#### **CONSULT-III Function**

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SELF DIAGNOSTIC RESULTS Refer to <u>ADP-200</u>, "<u>DTC\_Index</u>".

**DATA MONITOR** 

Monitor Item	Unit	Main Signals	Selection From Menu	Contents
SET SW	"ON/OFF"	×	×	ON/OFF status judged from the setting switch signal.
MEMORY SW 1	"ON/OFF"	×	×	ON/OFF status judged from the seat memory switch 1 signal.
MEMORY SW 2	"ON/OFF"	×	×	ON/OFF status judged from the seat memory switch 2 signal.
SLIDE SW-FR*3	"ON/OFF"	×	×	ON/OFF status judged from the sliding switch (forward) signal.
SLIDE SW-RR*3	"ON/OFF"	×	×	ON/OFF status judged from the sliding switch (backward) signal.
RECLN SW-FR*3	"ON/OFF"	×	×	ON/OFF status judged from the reclining switch (forward) signal.
RECLN SW-RR*3	"ON/OFF"	×	×	ON/OFF status judged from the reclining switch (backward) signal.
LIFT FR SW-UP*3	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch front (upward) signal.
LIFT FR SW-DN*3	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch front (downward) signal.
LIFT RR SW-UP*3	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch rear (upward) signal.
LIFT RR SW-DN*3	"ON/OFF"	×	×	ON/OFF status judged from the lifting switch rear (downward) signal.
MIR CON SW-UP	"ON/OFF"	×	×	ON/OFF status judged from the mirror switch (upward) signal.
MIR CON SW-DN	"ON/OFF"	×	×	ON/OFF status judged from the mirror switch (downward) 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.

Revision: 2011 December ADP-45 2011 G Coupe

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## **DIAGNOSIS SYSTEM (DRIVER SEAT C/U)**

### < SYSTEM DESCRIPTION >

Monitor Item	Unit	Main Signals	Selection From Menu	Contents	
TILT SW-UP	"ON/OFF"	×	×	ON/OFF status judged from the tilt switch (upward) signal.	
TILT SW-DOWN	"ON/OFF"	×	×	ON/OFF status judged from the tilt switch (downward) 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.	
FORWARD SW*3	"ON/OFF"	×	×	ON/OFF status judged from the forward switch signal.	
WALK-IN SW*3	"ON/OFF"	×	×	ON/OFF status judged from the power walk-in switch signal.	
FWD LIMIT SW*3	"ON/OFF"	×	×	ON/OFF status judged from the sliding limit switch signal.	
SEAT BELT SW*3	"ON/OFF"	×	×	ON/OFF status judged from the seat belt buckle switch signal.	
DETENT SW*1	"ON/OFF"	×	×	The selector lever position "OFF (P position) / ON (other than the P position)" judged from the detention switch signal.	
PARK BRAKE SW <sup>*2</sup>	"ON/OFF"	×	×	The parking brake condition "ON (applied) / OFF (release)" judged from the parking brake switch signal.	
STARTER SW	"ON/OFF"	×	×	Ignition key switch ON (START, ON) /OFF (ACC, OFF) status judged from the ignition switch signal.	
SLIDE PULSE*3	_	-	×	Value (32768) when battery connections are standard. If it moves backward, the value increases. If it moves forward, the value decreases.	
RECLN PULS*4	-	-	×	Value (32768) when battery connections are standard. If it moves backward, the value increases. If it moves forward, the value decreases.	
LIFT FR PULSE*4	-	_	×	Value (32768) when battery connections are standard. If it moves DOWN, the value increases. If it moves UP, the value decreases.	
LIFT RR PULSE*4	-	_	×	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	" <b>V</b> "	_	×	Voltage input from door mirror sensor (passenger side) upward/downward is displayed.	
MIR/SEN RH R-L	" <b>V</b> "	_	×	Voltage input from door mirror sensor (passenger side) leftward/rightward is displayed.	
MIR/SEN LH U-D	" <b>V</b> "	_	×	Voltage input from door mirror sensor (driver side) upward/downward is displayed.	
MIR/SEN LH R-L	"√"	_	×	Voltage input from door mirror sensor (driver side) leftward/rightward is displayed.	
TILT SEN	"V"	_	×	Voltage input from tilt sensor upward/downward is displayed.	
TELESCO SEN	" <b>V</b> "	_	×	Voltage input from telescopic sensor forward/backward is displayed.	

<sup>\*1:</sup> M/T models display all item except this item.

#### **ACTIVE TEST**

#### **CAUTION:**

### When driving vehicle, never perform active test.

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

<sup>\*2:</sup> A/T models display all item except this item.

<sup>\*3:</sup> Only this item is displayed for driver seat without automatic drive positioner system.

<sup>\*4:</sup> It is displayed but is not operated for models with driver seat without automatic driver positioner system.

## DIAGNOSIS SYSTEM (DRIVER SEAT C/U)

### < SYSTEM DESCRIPTION >

Test item	Description	
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.	

<sup>\*:</sup> Does not display without automatic driver position system.

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# DTC/CIRCUIT DIAGNOSIS

### U1000 CAN COMM CIRCUIT

Description INFOID:000000006455017

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.	Trouble diagnosis name	DTC detecting condition	Possible cause
U1000	CAN COMM CIR- CUIT	<ul> <li>Driver seat control unit cannot communicate to other control units.</li> <li>Driver seat control unit cannot communicate for more than the specified time.</li> </ul>	Harness or connectors (CAN communication line is open or shorted)

#### DTC CONFIRMATION PROCEDURE

#### **1.**STEP 1

- 1. Turn ignition switch ON and wait for 3 seconds or more.
- 2. Check "Self diagnostic result" using CONSULT-III.

#### Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-48, "Diagnosis Procedure".

NO >> INSPECTION END

### Diagnosis Procedure

INFOID:0000000006455019

Refer to LAN-16, "Trouble Diagnosis Flow Chart".

### Special Repair Requirement

INFOID:0000000006455020

Refer to ADP-10, "SYSTEM INITIALIZATION: Description".

### **B2112 SLIDING MOTOR**

#### < DTC/CIRCUIT DIAGNOSIS >

#### **B2112 SLIDING MOTOR**

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- The seat sliding motor is installed to the seat cushion frame.
- The seat sliding motor is installed with the driver seat control unit.
- Slides the seat frontward/ rearward by changing the rotation direction of sliding motor.

**DTC** Logic INFOID:0000000006455022

#### DTC DETECTION LOGIC

#### NOTE:

First perform diagnosis for B2126 if B2126 is detected.

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause	Е
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 power shorted	F

#### DTC CONFIRMATION PROCEDURE

## 1. PERFORM DTC CONFIRMATION PROCEDURE

Turn ignition switch ON.

Check "Self diagnostic result" using CONSULT-III.

#### Is the DTC detected?

>> Perform diagnosis procedure. Refer to ADP-49, "Diagnosis Procedure". YES

NO >> INSPECTION END

## Diagnosis Procedure

INFOID:0000000006455023

## 1.check sliding motor circuit (power short)

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

(+)			Voltage (V) (Approx.)	
Sliding motor		(–)		L
Connector	Terminals			
B525	35	- Ground	0	
	42		U	

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

## 2.CHECK DRIVER SEAT CONTROL UNIT OUTPUT SIGNAL

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

(+) Driver seat control unit		(-)	Voltage (V) (Approx.)	
Connector	Terminals		( ipproxi)	
B525	35	Ground	0	
B323	42	- Ground	U 	

#### Is the inspection result normal?

### **B2112 SLIDING MOTOR**

#### < DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 3.

NO >> Replace driver seat control unit. Refer to <u>ADP-234, "Removal and Installation"</u>

3. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

#### **B2113 RECLINING MOTOR**

#### < DTC/CIRCUIT DIAGNOSIS >

#### **B2113 RECLINING MOTOR**

Description INFOID:000000006455024

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- The seat reclining motor is installed to the seatback frame.
- The seat reclining motor is activated with the driver seat control unit.
- Tilts the seatback frontward/rearward by changing the rotation direction of reclining motor.

DTC Logic

#### DTC DETECTION LOGIC

#### NOTE:

First perform diagnosis for B2126 if B2126 is detected.

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.	

#### DTC CONFIRMATION PROCEDURE

### 1. PEFORM DTC CONFIRMATION PROCEDURE

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

#### Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to <u>ADP-51, "Diagnosis Procedure"</u>.

NO >> INSPECTION END

### Diagnosis Procedure

1. CHECK RECLINING MOTOR CIRCUIT (POWER SHORT)

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

(+) Reclining motor		(–)	Voltage (V) (Approx.)	
Connector	Terminals		(* (* (* (* (* (* (* (* (* (* (* (* (* (	
B523	15	Ground	0	
D023	71	- Ground	U	

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

### 2.CHECK DRIVER SEAT CONTROL UNIT OUTPUT SIGNAL

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

(+) Driver seat control unit		(–)	Voltage (V) (Approx.)
Connector	Terminals		(Approx.)
B523	15 71	Ground	0

Is the inspection result normal?

### **B2113 RECLINING MOTOR**

#### < DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 3.

NO >> Replace driver seat control unit. Refer to <u>ADP-234, "Removal and Installation"</u>.

3. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

#### **B2118 TILT SENSOR**

#### < DTC/CIRCUIT DIAGNOSIS >

## **B2118 TILT SENSOR**

Description INFOID:000000006455027

- The tilt sensor is installed to the steering column assembly.
- 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.

DTC Logic

#### DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2118	TILT SENSOR	The input voltage of tilt sensor is less then 0.1V or more than 4.9V.	Harness and connectors     (Tilt sensor circuit is opened/     shorted, tilt sensor power supply circuit is opened/shorted.)      Tilt sensor

#### DTC CONFIRMATION PROCEDURE

### 1. PERFORM DTC CONFIRMATION PROCEDURE

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

#### Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to <u>ADP-53</u>, "<u>Diagnosis Procedure</u>".

NO >> INSPECTION END

### Diagnosis Procedure

1. CHECK TILT SENSOR SIGNAL

- Turn ignition switch ON.
- Select "TILT SEN" in the "Data monitor" mode using CONSULT-III.
- 3. Check tilt sensor signal under the following condition.

Monitor item	Condition	Value
TILT SEN	Tilt position	Change between 1.1 V (close to top) 3.9 V (close to bottom)

#### Is the value normal?

YES >> GO TO 6.

NO >> GO TO 2.

### 2.CHECK TILT SENSOR CIRCUIT

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

Automatic drive positioner control unit		Tilt & telescopic sensor		Continuity
Connector	Terminal	Connector Terminal		Continuity
M51	7	M48	3	Existed

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

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#### **B2118 TILT SENSOR**

#### < DTC/CIRCUIT DIAGNOSIS >

Automatic drive positioner control unit			Continuity
Connector	Terminal	Ground	Continuity
M51	7		Not existed

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

## 3.CHECK TILT SENSOR POWER SUPPLY

- 1. Connect automatic drive positioner control unit connector.
- 2. Turn ignition switch ON.
- 3. Check voltage between tilt & telescopic sensor harness connector and ground.

(	+)		V I 00
Tilt & telescopic sensor		(–)	Voltage (V) (Approx.)
Connector	Terminal		(11 - )
M48	1	Ground	5

#### 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.
- Check continuity between automatic drive positioner control unit harness connector and tilt & telescopic sensor harness connector.

Automatic drive po	sitioner control unit	Tilt & teleso	copic sensor	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M52	33	M48	1	Existed

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

Automatic drive positioner control unit			Continuity
Connector	Terminal	Ground	Continuity
M52	33		Not existed

#### Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-235, "Removal and Installation".

NO >> Repair or replace harness.

### 5. CHECK TILT SENSOR GROUND CIRCUIT

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

Automatic drive po	ic drive positioner control unit		Tilt & telescopic sensor	
Connector	Terminal	Connector	Terminal	Continuity
M52	41	M48	4	Existed

#### Is the inspection result normal?

YES >> Replace tilt & telescopic sensor.

NO >> Repair or replace harness.

#### 6. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

## **B2118 TILT SENSOR**

>> INSPECTION END

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Revision: 2011 December ADP-55 2011 G Coupe

#### **B2119 TELESCOPIC SENSOR**

#### < DTC/CIRCUIT DIAGNOSIS >

### **B2119 TELESCOPIC SENSOR**

Description INFOID:000000006455030

- The telescopic sensor is installed to the steering column assembly.
- The resistance of telescopic sensor is changed according to the 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 resistance. Automatic drive positioner control unit calculates the telescopic position from the voltage.

DTC Logic

#### DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2119	TELESCOPIC SEN- SOR	The input voltage of telescopic sensor is less than 0.1V or more than 4.9V.	Harness and connectors     (Telescopic sensor circuit is     opened/shorted, telescopic sensor power supply circuit is     opened/shorted.)      Telescopic sensor

#### DTC CONFIRMATION PROCEDURE

## 1. PERFORM DTC CONFIRMATION PROCEDURE

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

#### Is the DTC is detected?

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

NO >> INSPECTION END

# Diagnosis Procedure

INFOID:0000000006455032

- 1. CHECK TELESCOPIC SENSOR SIGNAL
- Turn ignition switch ON.
- 2. Select "TELESCO SEN" in the "Data monitor" mode using CONSULT-III.
- 3. Check the tilt sensor signal under the following condition.

Monitor item	Condition	Value
TELESCO SEN	Telescopic position	Change between 0.5 V (close to top) 4.5 V (close to bottom)

#### Is the valve normal?

YES >> GO TO 6. NO >> GO TO 2.

### 2.CHECK TELESCOPIC SENSOR CIRCUIT

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

Automatic drive po	sitioner control unit	Tilt & telescopic sensor		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M51	23	M48	2	Existed

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

#### **B2119 TELESCOPIC SENSOR**

#### < DTC/CIRCUIT DIAGNOSIS >

Automatic drive positioner control unit			Continuity
Connector	Terminal	Ground	Continuity
M51	23		Not existed

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

## 3.CHECK TELESCOPIC SENSOR POWER SUPPLY

- Connect automatic drive positioner control unit connector.
- 2. Turn ignition switch ON.
- 3. Check voltage between tilt & telescopic sensor harness connector and ground.

(+) Tilt & telescopic sensor		(–)	Voltage (V) (Approx.)	
Connector	Terminal		(, , , , , , , , , , , , , , , , , , ,	
M48	1	Ground	5	

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

### 4. CHECK TELESCOPIC 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 & telescopic sensor harness connector.

Automatic drive po	Automatic drive positioner control unit		Tilt & telescopic sensor	
Connector	Terminal	Connector	Terminal	Continuity
M52	33	M48	1	Existed

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

Automatic drive positioner control unit			Continuity
Connector	Terminal	Ground	Continuity
M52	33		Not existed

#### Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-235, "Removal and Installation".

NO >> Repair or replace harness.

### 5. 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 tilt & telescopic sensor harness connector.

Automatic drive po	Automatic drive positioner control unit		Tilt & telescopic sensor	
Connector	Terminal	Connector	Terminal	Continuity
M52	41	M48	4	Existed

#### Is the inspection result normal?

YES >> Replace tilt & telescopic sensor.

NO >> Repair or replace harness.

#### 6. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

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### **B2119 TELESCOPIC SENSOR**

>> INSPECTION END

#### **B2126 DETENT SW**

Description INFOID:0000000006455033

Detention switch is installed on A/T shift selector. It is turned OFF when the A/T selector lever is in P posi-

 The driver seat control unit judges that the A/T selector lever is in P position if continuity does not exist in this circuit.

DTC Logic INFOID:0000000006455034

#### DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause	E
B2126	DETENT SW	Selector lever is in P position and the vehicle speed of 7±4 km/h is detected.	<ul> <li>Harness and connectors         (Detention switch circuit is opened/shorted.)</li> <li>Detention switch</li> <li>Unified meter and A/C amp. (CAN communication)</li> </ul>	F

#### DTC CONFIRMATION PROCEDURE

### 1. PERFORM DTC CONFIRMATION PROCEDURE

- Drive the vehicle at 7±4 km/h or more.
- Check "Self diagnostic result" using CONSULT-III.

#### Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-59, "Diagnosis Procedure".

NO >> INSPECTION END

### Diagnosis Procedure

CHECK DTC WITH "BCM"

Check "Self diagnostic result" for BCM using CONSULT-III.

Is the either DTC B2601, B2602, B2603, B2604 or B2605 detected?

>> Check the DTC. Refer to BCS-74, "DTC Index". YES

NO >> GO TO 2.

### 2.CHECK DTC WITH "METER/M&A"

Check "Self diagnostic result" for METER/M&A using CONSULT-III.

#### Is the DTC detected?

YES >> Check the DTC. Refer to MWI-102, "DTC Index".

NO >> GO TO 3.

## 3.CHECK DETENTION SWITCH SIGNAL

- 1. Turn ignition switch ON.
- Select "DETENT SW" in the "Data Monitor" mode using CONSULT-III. 2.
- Check detention switch signal under the following condition.

Monitor item	Condition		Status
DETENT SW	selector lever	P position	OFF
	Selector level	Other than above	ON

#### Is the status normal?

YES >> GO TO 5.

NO >> GO TO 4.

### 4. CHECK DETENTION SWITCH CIRCUIT

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#### **B2126 DETENT SW**

#### < DTC/CIRCUIT DIAGNOSIS >

- 1. Turn ignition switch OFF.
- 2. Disconnect driver seat control unit and A/T shift selector connector.
- 3. Check continuity between driver seat control unit harness connector and A/T shift selector harness connector.

Driver seat	Driver seat control unit		A/T shift selector	
Connector	Terminal	Connector	Terminal	Continuity
B503	21	M137	11	Existed

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

Driver seat	control unit		Continuity
Connector	Connector Terminal		Continuity
B503	21		Not existed

#### Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-234, "Removal and Installation".

NO >> Repair or replace harness.

## 5. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

#### **B2127 PARKING BRAKE SWITCH**

#### < DTC/CIRCUIT DIAGNOSIS >

#### **B2127 PARKING BRAKE SWITCH**

Description INFOID:0000000006455036

- Parking brake switch is installed on parking brake lever. It is turned ON when the parking brake is applied.
- The driver seat control unit judges that the parking brake is engaged if continuity exists in this circuit.

DTC Logic INFOID:0000000006455037

#### DTC DETECTION LOGIC

DTC No.	Trouble diagnosis name	DTC detecting condition	Possible cause
B2127	PARKING BRAKE	Parking brake is engaged and the vehicle speed of 7 km/h (4MPH) or more is detected.	Harness and connectors     (Parking brake switch circuit is opened/shorted.)     Parking brake switch     Combination meter     (CAN communication)     Driver seat control unit

#### DTC CONFIRMATION PROCEDURE

### 1.STEP 1

- Drive the vehicle at 7 km/h (4 MPH) or more.
- Check "Self Diagnostic Result" using CONSULT-III.

#### Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to <u>ADP-61</u>, "<u>Diagnosis Procedure</u>".

NO >> INSPECTION END

### Diagnosis Procedure

INFOID:0000000006455038

## 1. CHECK PARKING BRAKE SWITCH SIGNAL

- Turn ignition switch ON.
- Select "PARK BRAKE SW" in the "Data Monitor" mode using CONSULT-III.
- Check parking brake switch signal under the following condition.

Monitor item	Condition		Status
PARK BRAKE SW	Parking brake	Applied	ON
FAIRE DIVARLE SW	Faiking blake	Release	OFF

#### Is the status normal?

YES >> GO TO 5.

NO >> GO TO 2.

## 2.CHECK PARKING BRAKE SWITCH INPUT SIGNAL

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

(+) Parking brake switch		(-)	Voltage (V) (Approx.)	
Connector	Terminal		( 44)	
B14	1	Ground	Battery voltage	

#### Is the inspection result normal?

YES >> GO TO 4. NO >> GO TO 3.

**ADP-61** Revision: 2011 December 2011 G Coupe

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#### **B2127 PARKING BRAKE SWITCH**

#### < DTC/CIRCUIT DIAGNOSIS >

# 3. CHECK PARKING BRAKE SWITCH HARNESS CONTINUITY

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

Driver seat	Driver seat control unit		Parking brake switch	
Connector	Terminal	Connector	Terminal	Continuity
B503	8	B14	1	Existed

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

Driver seat	control unit		Continuity
Connector Terminal		Ground	Continuity
B503	8		Not existed

#### Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-234, "Removal and Installation".

NO >> Repair or replace harness.

#### 4. CHECK PARKING BRAKE SWITCH

Refer to ADP-62, "Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Adjust or replace parking brake switch.

#### 5. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

### Component Inspection

INFOID:0000000006455039

### 1. CHECK PARKING BRAKE SWITCH

- 1. Turn ignition switch OFF.
- Disconnect parking brake switch connector.
- 3. Check continuity between parking brake switch terminal and ground part of parking brake switch.

Terminal		Condition		Continuity
Parking brake switch				Continuity
1	Ground part of	Parking brake	Applied	Existed
	parking brake switch	I dikiliy biake	Other than above	Not existed

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Adjust or replace parking brake switch.

#### **B2128 UART COMMUNICATION LINE**

#### < DTC/CIRCUIT DIAGNOSIS >

### **B2128 UART COMMUNICATION LINE**

Description INFOID:0000000006455040

Driver seat control unit performs UART communication with the automatic drive positioner control unit using 2 communication lines, TX and RX line. Driver seat control unit receives the operation signals of tilt & telescopic switch, door mirror remote control switch, set switch and memory switch and the position signals of tilt & telescopic sensor and door mirror sensor from the automatic drive positioner control unit and transmits the operation request signal.

**DTC** Logic INFOID:0000000006455041

#### DTC DETECTION LOGIC

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

#### DTC CONFIRMATION PROCEDURE

## 1. PERFORM DTC CONFIRMATION PROCEDURE

- Turn ignition switch ON.
- Operate tilt & telescopic switch for more than 2 seconds. 2.
- Check "Self diagnostic result" using CONSULT-III.

#### Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to ADP-63, "Diagnosis Procedure".

>> INSPECTION END NO

### Diagnosis Procedure

INFOID:0000000006455042

## 1. 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 seat	control unit	Automatic drive positioner control unit		Automatic drive positioner control unit  Continuity		Continuity
Connector	Terminal	Connector Terminal		Continuity		
B503	1	M51	10	Existed		
D303	17	IVIJI	26	LXISIEU		

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

Driver seat control unit			Continuity
Connector	Terminal	Ground	Continuity
B503	1	- Cround	Not existed
	17		INOL EXISTED

#### Is the inspection result normal?

Revision: 2011 December

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

NO >> Repair or replace harness.

> **ADP-63** 2011 G Coupe

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#### POWER SUPPLY AND GROUND CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

### POWER SUPPLY AND GROUND CIRCUIT

**BCM** 

BCM : Diagnosis Procedure

INFOID:0000000006455043

### 1. CHECK FUSE AND FUSIBLE LINK

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

Signal name	Fuse and fusible link No.	
Rattery power supply	K (40A)	
Battery power supply	10 (10A)	

#### Is the fuse fusing?

YES >> Replace the blown fuse or fusible link after repairing the affected circuit if a fuse or fusible link is blown.

NO >> GO TO 2.

## 2.CHECK POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM connectors.
- 3. Check voltage between BCM harness connector and ground.

(+) BCM		(-)	Voltage (Approx.)	
Connector	Terminal		(* ************************************	
M118	1	Ground	Rattery voltage	
M119	11	Ground	Battery voltage	

#### Is the measurement value normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

### 3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

BCM			Continuity
Connector Terminal		Ground	Continuity
M119	13		Existed

#### Does continuity exist?

YES >> INSPECTION END

NO >> Repair harness or connector.

### DRIVER SEAT CONTROL UNIT

#### DRIVER SEAT CONTROL UNIT : Diagnosis Procedure

INFOID:0000000006455044

#### NOTE:

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

### 1. CHECK POWER SUPPLY CIRCUIT

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

#### POWER SUPPLY AND GROUND CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

Driver sea	(+) Driver seat control unit		Voltage (V) (Approx.)	
Connector	Terminal		(, , , , , , )	
B504	33	Cround	Pottony voltage	
D304	40	Ground	Battery voltage	

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Check the following.

- Repair or replace harness between driver seat control unit and fuse block (J/B).
- · Circuit breaker.

### 2.CHECK GROUND CIRCUIT

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

Driver seat control unit			Continuity	
Connector Terminal		Ground	Continuity	
B503	32	Ground	Existed	
B504	48	1	Existed	

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

### DRIVER SEAT CONTROL UNIT: Special Repair Requirement

### 1.PERFORM ADDITIONAL SERVICE

Perform additional service when removing battery negative terminal.

### >> Refer to ADP-64, "DRIVER SEAT CONTROL UNIT: Diagnosis Procedure".

#### AUTOMATIC DRIVE POSITIONER CONTROL UNIT

### AUTOMATIC DRIVE POSITIONER CONTROL UNIT: Diagnosis Procedure

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

#### 1. CHECK POWER SUPPLY CIRCUIT

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

(+)		(–)	Voltage (V) (Approx.)	
Automatic drive positioner control unit				
Connector	Terminal		(11 - 7	
M52	34	Ground	Battery voltage	
	39		battery voitage	

#### Is the inspection result normal?

>> GO TO 2.

NO - 1 >> Repair or replace harness between automatic drive positioner control unit and fuse block (J/B).

NO - 2 >> Check circuit breaker.

### 2.CHECK GROUND CIRCUIT

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

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ADP-65 Revision: 2011 December 2011 G Coupe

#### POWER SUPPLY AND GROUND CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

Automatic drive	Automatic drive positioner control unit		Continuity
Connector	Terminal	Ground	Continuity
M52	40	- Exist	Existed
IVIOZ	48		LAISIEU

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Repair or replace harness.

### AUTOMATIC DRIVE POSITIONER CONTROL UNIT: Special Repair Requirement

INFOID:0000000006455047

## 1.PERFORM ADDITIONAL SERVICE

Perform additional service when removing battery negative terminal.

>> Refer to <u>ADP-9</u>, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : <u>Description</u>".

#### **SLIDING SWITCH**

#### < DTC/CIRCUIT DIAGNOSIS >

### SLIDING SWITCH

Description INFOID:000000006455048

Sliding switch is equipped to the power seat switch on the seat cushion side surface. The operation signal is input to the driver seat control unit when the sliding switch is operated.

### Component Function Check

#### INFOID:0000000006455049

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## 1. CHECK FUNCTION

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

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

#### Is the indication normal?

YES >> INSPECTION END

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

### Diagnosis Procedure

#### INFOID:0000000006455050

## 1. CHECK SLIDING SWITCH SIGNAL

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

(+) Power seat switch		(-)	Voltage (V) (Approx.)	
Connector	Terminal		(/ .pp. 0/)	
B510	11	Ground	Pottory voltage	
B310	26	Ground	Battery voltage	

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

## 2. CHECK SLIDING SWITCH CIRCUIT

- 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
B503	11	B510	11	Existed
B503	26	<b>B</b> 310	26	LXISIEU

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

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#### **SLIDING SWITCH**

#### < DTC/CIRCUIT DIAGNOSIS >

Driver sea	at control unit		Continuity
Connector	Terminal	Ground	Continuity
B503	11	Ground	Not existed
D303	26		Not existed

#### Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-234, "Removal and Installation".

NO >> Repair or replace harness.

## 3.CHECK SLIDING SWITCH

Refer to ADP-68, "Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace power seat switch. Refer to ADP-237, "Removal and Installation".

#### 4. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

## Component Inspection

INFOID:0000000006455051

### 1. CHECK SLIDING SWITCH

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

Power seat switch		Condition		Continuity
Terminal				
	11	Sliding switch (backward)	Operate	Existed
32	11		Release	Not existed
32	26	26 Sliding switch (forward)	Operate	Existed
	20	Silding Switch (lorward)	Release	Not existed

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to ADP-237, "Removal and Installation".

#### **RECLINING SWITCH**

#### < DTC/CIRCUIT DIAGNOSIS >

### **RECLINING SWITCH**

Description

Reclining switch is equipped to the power seat switch on the seat cushion side surface. The operation signal is input to the driver seat control unit when the reclining switch is operated.

### Component Function Check

#### INFOID:0000000006455053

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## 1. CHECK FUNCTION

- 1. Turn ignition switch ON.
- 2. Select "RECLN SW-FR", "RECLN SW-RR" in the "Data monitor" mode using CONSULT-III.
- 3. Check reclining switch signal under the following conditions.

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

#### Is the indication normal?

YES >> INSPECTION END

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

### Diagnosis Procedure

#### INFOID:0000000006455054

## 1. CHECK RECLINING SWITCH SIGNAL

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

·	(+) Power seat switch  (-)  Voltage (V) (Approx.)		Voltage (V) (Approx.)
Connector	Terminal		(1.455.67.1)
B510	12	Ground	Rattory voltago
B310	27	Giodila	Battery voltage

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

### 2. CHECK RECLINING SWITCH CIRCUIT

- 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
B503	12	B510	12	Existed
B303	27	B310	27	LXISIEU

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

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#### **RECLINING SWITCH**

#### < DTC/CIRCUIT DIAGNOSIS >

Driver se	at control unit		Continuity
Connector	Terminal	Ground	Continuity
B503	12	Giouna	Not existed
B303	27	-	Not existed

#### Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-234, "Removal and Installation".

NO >> Repair or replace harness.

## 3. CHECK RECLINING SWITCH

Refer to ADP-70, "Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace power seat switch. Refer to ADP-237, "Removal and Installation".

#### 4. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

# Component Inspection

INFOID:0000000006455055

### 1. CHECK RECLINING SWITCH

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

Power seat switch		Condition		Continuity
Terminal				
	12	Reclining switch (backward)	Operate	Existed
32	12	recilling switch (backward)	Release	Not existed
32	27	Poolining switch (forward)	Operate	Existed
	21	Reclining switch (forward)	Release	Not existed

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to ADP-237, "Removal and Installation".

### **LIFTING SWITCH (FRONT)**

#### < DTC/CIRCUIT DIAGNOSIS >

### LIFTING SWITCH (FRONT)

Description INFOID:0000000006455056

Lifting switch (front) is equipped to the power seat switch on the seat cushion side surface. The operation signal is input to the driver seat control unit when the lifting switch (front) is operated.

### Component Function Check

#### INFOID:000000006455057

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## 1. CHECK FUNCTION

- 1. Turn ignition switch ON.
- 2. Select "LIFT FR SW-UP", "LIFT FR SW-DN" in the "Data monitor" mode using CONSULT-III.
- 3. Check lifting switch (front) signal under the following conditions.

Monitor item	Condition		Status
LIFT FR SW-UP	Lifting switch front (up)	Operate	ON
	Litting Switch from (up)	Release	OFF
LIFT FR SW-DN	Lifting switch front (down)	Operate	ON
LII I I IX SW-DIN	Litting Switch Horit (down)	Release	OFF

#### Is the indication normal?

YES >> INSPECTION END

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

### Diagnosis Procedure

#### INFOID:0000000006455058

## 1. CHECK LIFTING SWITCH SIGNAL

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

·	(+)  ower seat switch  (-)  Voltage (V)  (Approx.)		Voltage (V) (Approx.)
Connector	Terminal		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
B510	13	Ground	Pottory voltage
D310	28	Giouna	Battery voltage

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

## 2.CHECK LIFTING SWITCH (FRONT) CIRCUIT

- 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	
B503	13	B510	13	Existed	
B303	28	5310	28	LAISIEU	

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

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### **LIFTING SWITCH (FRONT)**

#### < DTC/CIRCUIT DIAGNOSIS >

Driver se	at control unit		Continuity	
Connector	Terminal	Ground	Continuity	
B503	13	Giouria	Not existed	
D303	28		INOL EXISTED	

#### Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-234, "Removal and Installation".

NO >> Repair or replace harness.

 ${f 3.}$ CHECK LIFTING SWITCH (FRONT)

Refer to ADP-72, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace power seat switch. Refer to ADP-237, "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

## Component Inspection

INFOID:0000000006455059

### 1. CHECK LIFTING SWITCH (FRONT)

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

Power se	eat switch	Condition		Continuity
Terr	minal	Condi	uon	Continuity
	13	Lifting switch front (down)	Operate	Existed
32	13		Release	Not existed
32	28	Lifting quitab front (up)	Operate	Existed
		Lifting switch front (up)	Release	Not existed

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to ADP-237, "Removal and Installation".

# **LIFTING SWITCH (REAR)**

#### < DTC/CIRCUIT DIAGNOSIS >

# LIFTING SWITCH (REAR)

**Description** 

Lifting switch (rear) is equipped to the power seat switch on the seat cushion side surface. The operation signal is input to the driver seat control unit when the lifting switch (rear) is operated.

# Component Function Check

#### INFOID:0000000006455061

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# 1. CHECK FUNCTION

- 1. Turn ignition switch ON.
- 2. Select "LIFT RR SW-UP", "LIFT RR SW-DN" in the "Data monitor" mode using CONSULT-III.
- 3. Check lifting switch (rear) signal under the following conditions.

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

#### Is the indication normal?

YES >> INSPECTION END

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

## Diagnosis Procedure

#### INFOID:0000000006455062

# 1. CHECK LIFTING SWITCH (REAR) SIGNAL

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

(+) Power seat switch		(-)	Voltage (V) (Approx.)
Connector	Terminal		(1.455.67.1)
B510	14	Ground	Pottory voltage
D310	29	Giouna	Battery voltage

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

# 2.CHECK LIFTING SWITCH (REAR) CIRCUIT

- 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 sear switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B503	14	B510	14	Existed
В303	29	<b>B</b> 310	29	LXISIEU

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

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### **LIFTING SWITCH (REAR)**

#### < DTC/CIRCUIT DIAGNOSIS >

Driver se	at control unit		Continuity
Connector	Terminal	Ground	Continuity
B503	14	Giodria	Not existed
D303	29		Not existed

#### Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-234, "Removal and Installation".

NO >> Repair or replace harness.

3.CHECK LIFTING SWITCH (REAR)

Refer to ADP-74, "Component Inspection".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace power seat switch. Refer to ADP-237, "Removal and Installation".

4. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

# Component Inspection

INFOID:0000000006455063

# 1. CHECK LIFTING SWITCH (REAR)

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

Power seat switch		Condition		Continuity
Terr	ninal	Condi		Continuity
	14 L	Lifting switch rear (down)	Operate	Existed
32	14		Release	Not existed
32		Lifting switch roor (up)	Operate	Existed
		Lifting switch rear (up)	Release	Not existed

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power seat switch. Refer to ADP-237, "Removal and Installation".

### **FORWARD SWITCH**

Description INFOID:000000006455064

Forward switch is installed on the seat back frame. Forward switch detects condition of seat back.

# Component Function Check

# 1. CHECK FUNCTION

- 1. Select "FORWARD SW" in the "Data Monitor" mode using CONSULT-III.
- 2. Check the forward switch signal under the following condition.

Test item	Condition		Status
FORWARD SW	Driver side seat back	Folded up	ON
I OKWARD 3W	Driver side seat back	Folded down	OFF

#### Is the indication normal?

YES >> INSPECTION END

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

### Diagnosis Procedure

# 1. CHECK FORWARD SWITCH SIGNAL

1. Turn ignition switch OFF.

- 2. Disconnect forward switch harness connector.
- Check voltage between forward switch harness connector and ground.

	+) d switch	(-)	Condition	Voltage (V) (Approx.)
Connector	Terminal			( 4 )
B512	41	Ground	Seat back is folded up and power walk-in switch pressed	5

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

### 2. CHECK FORWARD SWITCH CIRCUIT

- 1. Disconnect driver seat control unit connector.
- Check continuity between driver seat control unit harness connector and forward switch harness connector.

Driver seat	Driver seat control unit		Forward switch	
Connector	Terminal	Connector	Terminal	Continuity
B504	41	B512	41	Existed

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

Driver seaf	control unit		Continuity
Connector	Terminal	Ground	Continuity
B504	41		Not existed

#### Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-234, "Removal and Installation"

NO >> Repair or replace harness.

# 3. FORWARD SWITCH GROUND CIRCUIT

Check continuity between forward switch harness connector and ground.

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### **FORWARD SWITCH**

#### < DTC/CIRCUIT DIAGNOSIS >

Forward switch			Continuity
Connector	Terminal	Ground	Continuity
B512	32		Existed

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

### 4. CHECK FORWARD SWITCH

Refer to ADP-76, "Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace forward switch (Built in seat back frame). Refer to <u>SE-188. "Exploded View"</u>.

### 5. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

#### >> INSPECTION END

# Component Inspection

INFOID:0000000006455067

# 1. CHECK FORWARD SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect forward switch connector.
- 3. Check continuity between forward switch terminals.

Forward switch		Condition		Continuity	
Connector	Terminal		001	idition	Continuity
B512	41	32	Driver side seat	Folded up	Not existed
	41 32	32	back	Folded down	Existed

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace forward switch (Built in seat back frame). Refer to <u>SE-188, "Exploded View"</u>.

### **SEAT BELT BUCKLE SWITCH**

#### < DTC/CIRCUIT DIAGNOSIS >

### SEAT BELT BUCKLE SWITCH

Description INFOID:000000006455068

Seat belt buckle switch is installed in seat belt buckle. Seat belt buckle switch detects condition of seat belt.

# Component Function Check

# 1. CHECK FUNCTION

- Select "SEAT BELT SW" in the "Data Monitor" mode using CONSULT-III.
- 2. Check the seat belt buckle switch signal under the following condition.

Test item	Condition		Status
SEAT BELT SW	Driver side seat belt	Fastened	ON
SEAT BEET SW	Driver side seat beit	Released	OFF

#### Is the indication normal?

YES >> INSPECTION END

NO >> Refer to <u>ADP-77</u>, "<u>Diagnosis Procedure</u>".

### Diagnosis Procedure

# 1. CHECK SEAT BELT BUCKLE SWITCH SIGNAL

1. Turn ignition switch OFF.

- 2. Disconnect seat belt buckle switch harness connector.
- 3. Check voltage between seat belt buckle switch harness connector harness connector and ground.

(+) Seat belt buckle switch		(–)	Voltage (V) (Approx.)	
Connector	Terminal		(/ .pp. 3/)	
B13	1	Ground	5	

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

### 2.CHECK SEAT BELT BUCKLE SWITCH CIRCUIT

- 1. Disconnect driver seat control unit connector.
- Check continuity between driver seat control unit harness connector and seat belt buckle switch harness connector.

Driver seat control unit		Seat belt buckle switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B503	5	B13	1	Existed

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

Driver seat control unit			Continuity
Connector	Terminal	Ground	
B503	5		Not existed

#### Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-234, "Removal and Installation".

NO >> Repair or replace harness.

### 3.CHECK SEAT BELT BUCKLE SWITCH GROUND CIRCUIT

Check continuity between seat belt buckle switch harness connector and ground.

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### **SEAT BELT BUCKLE SWITCH**

#### < DTC/CIRCUIT DIAGNOSIS >

Seat belt buckle switch			Continuity
Connector	Connector Terminal		Continuity
B13	2		Existed

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

# 4. CHECK SEAT BELT BUCKLE SWITCH

Refer to ADP-78, "Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace seat belt buckle switch (Built in seat belt buckle). Refer to <u>SE-188, "Exploded View"</u>.

### 5. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

#### >> INSPECTION END

# Component Inspection

INFOID:0000000006455071

# 1. CHECK SEAT BELT BUCKLE SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect seat belt buckle switch connector.
- 3. Check continuity between seat belt buckle switch terminals.

	Seat belt buckle switch		Condition		Continuity
Connector	Terr	minal	Conducti		Continuity
B13	1	2	Driver side seat	Fastened	Not existed
ыз	1	2	belt	Released	Existed

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace seat belt buckle switch (Built in seat belt buckle). Refer to <u>SE-188, "Exploded View"</u>.

#### **SLIDING LIMIT SWITCH**

#### < DTC/CIRCUIT DIAGNOSIS >

### SLIDING LIMIT SWITCH

Description INFOID:0000000006455072

Sliding limit switch is installed on seat cushion frame. Sliding limit switch detects condition of seat sliding.

## Component Function Check

# 1. CHECK FUNCTION

- Select "FWD LIMIT SW" in the "Data Monitor" mode using CONSULT-III.
- Check the sliding limit switch signal under the following condition.

Test item	Condition		Status
FWD LIMIT SW	Seat sliding	Front edge	ON
I WD LIWIT SW	Seat sliding	Other than above	OFF

#### Is the indication normal?

YES >> INSPECTION END

>> Go to ADP-79, "Diagnosis Procedure". NO

### Diagnosis Procedure

# 1. CHECK SLIDING LIMIT SWITCH SIGNAL

Turn ignition switch OFF.

- Disconnect sliding limit switch harness connector. 2.
- Check voltage between sliding limit switch harness connector and ground.

(+) Sliding limit switch		(-)	Voltage (V) (Approx.)	
Connector	Terminal		(/ IPP : 5/11)	
B514	4	Ground	5	

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

### 2.CHECK SLIDING LIMIT SWITCH CIRCUIT

- Disconnect driver seat control unit connector.
- 2. Check continuity between driver seat control unit harness connector and sliding limit switch harness connector.

Driver seat control unit		Sliding limit switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B503	4	B514	4	Existed

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

Driver seat	Driver seat control unit		Continuity
Connector	Terminal	Ground	Continuity
B503	4		Not existed

#### Is the inspection result normal?

Revision: 2011 December

YES >> Replace driver seat control unit. Refer to ADP-234, "Removal and Installation"

NO >> Repair or replace harness.

### 3.check sliding limit switch ground circuit

Check continuity between sliding limit switch harness connector and ground.

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### **SLIDING LIMIT SWITCH**

#### < DTC/CIRCUIT DIAGNOSIS >

Sliding limit switch			Continuity
Connector	Connector Terminal		Continuity
B514	32		Existed

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

# f 4.CHECK SLIDING LIMIT SWITCH

Refer to ADP-80, "Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace forward switch (Built in seat back frame). Refer to <u>SE-188, "Exploded View"</u>.

### 5. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

#### >> INSPECTION END

# Component Inspection

INFOID:0000000006455075

# 1. CHECK SLIDING LIMIT SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect sliding limit switch connector.
- 3. Check continuity between sliding limit switch terminals.

	Sliding limit switch			ondition	Continuity
Connector	Terr	minal	Condition		Continuity
B514	4	32	Coat aliding	Front edge	Existed
D314	4	32	Seat sliding	Other than above	Not existed

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace forward switch (Built in seat back frame). Refer to <u>SE-188, "Exploded View"</u>.

### **POWER WALK-IN SWITCH**

#### < DTC/CIRCUIT DIAGNOSIS >

### POWER WALK-IN SWITCH

Description INFOID:0000000006455076

Power walk-in switch is installed on seat back. The operation signal is input to driver seat control unit when power walk-in switch is operated.

# Component Function Check

# 1. CHECK FUNCTION

- Select "WALK-IN SW" in the "Data Monitor" mode using CONSULT-III.
- Check the power walk-in switch signal under the following condition.

Test item	Condition		Status
WALK-IN SW	Power walk-in switch	Pressed	ON
WALK-IN SW	Fower waik-in Switch	Released	OFF

#### Is the indication normal?

YES >> INSPECTION END

NO >> Refer to ADP-81, "Diagnosis Procedure".

## Diagnosis Procedure

# $oldsymbol{1}$ -CHECK POWER WALK-IN SWITCH SIGNAL

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

(+) Power walk-in switch		(–)	Voltage (V) (Approx.)
Connector	Terminal		(11 - 7
B513	30	Ground	5

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

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

- Disconnect driver seat control unit connector and power walk-in switch connector.
- Check continuity between driver seat control unit harness connector and power walk-in switch harness connector.

Driver seat	Driver seat control unit		Power walk-in switch	
Connector	Terminal	Connector	Terminal	Continuity
B503	30	B513	30	Existed

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

Driver seat control unit			Continuity
Connector	Terminal	Ground	Continuity
B503	30		Not existed

#### Is the inspection result normal?

>> Replace driver seat control unit. Refer to ADP-234, "Removal and Installation".

NO >> Repair or replace harness.

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

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

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#### **POWER WALK-IN SWITCH**

#### < DTC/CIRCUIT DIAGNOSIS >

Power walk-in switch			Continuity
Connector	Terminal	Ground	Continuity
B513	32		Existed

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

# 4.CHECK POWER WALK-IN SWITCH

Refer to ADP-82, "Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace power walk-in switch (Built in walk-in lever). Refer to <u>SE-188, "Exploded View"</u>.

### 5. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

#### >> INSPECTION END

# Component Inspection

INFOID:0000000006455079

# 1. CHECK POWER WALK-IN SWITCH

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

	Power walk-in switch		Condition		Continuity
Connector	Terr	minal	Condition		Continuity
B513	30	32	Power walk-in	Pressed	Existed
DOTO	30	32	switch	Released	Not existed

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace power walk-in switch (Built in walk-in lever). Refer to <u>SE-188, "Exploded View"</u>.

### **TILT SWITCH**

Description INFOID:000000006455080

Tilt switch is equipped to the steering column. The operation signal is input to the automatic drive positioner control unit when the tilt switch is operated.

# Component Function Check

#### INFOID:0000000006455081

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# 1. CHECK FUNCTION

- Turn ignition switch ON.
- 2. Select "TILT SW-UP", "TILT SW-DN" in the "Data monitor" mode using CONSULT-III.
- 3. Check tilt switch signal under the following conditions.

Monitor item	Condition	Status	
TILT SW-UP	Tilt quitch (up)	Operate	ON
TILI 3W-OF	Tilt switch (up)	Release	OFF
TILT SW-DN	Tilt switch (down)	Operate	ON
TIET SW-DIN	Till Switch (down)	Release	OFF

#### Is the indication normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to <u>ADP-83, "Diagnosis Procedure"</u>.

## Diagnosis Procedure

#### INFOID:0000000006455082

# 1. CHECK TILT SWITCH SIGNAL

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

(+) Tilt & telescopic switch		(–)	Voltage (V) (Approx.)	
Connector	Terminal		( +   -   -   -   -   -   -   -   -   -	
M31	4	Ground	Pattory voltage	
I CIVI	5	Giouna	Battery voltage	

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

Revision: 2011 December

# 2.check tilt switch circuit

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

Automatic drive po	Automatic drive positioner control unit  Tilt & telescopic switch		Continuity	
Connector	Terminal	Connector	Terminal	Continuity
M51	1	M31	4	Existed
IVIOT	17	I CIVI	5	LAISIEU

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

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### **TILT SWITCH**

#### < DTC/CIRCUIT DIAGNOSIS >

Automatic drive p	Automatic drive positioner control unit		Continuity
Connector	Terminal	Ground	Continuity
M51	1	Ground	Not existed
IVIO	17		Not existed

#### Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-235, "Removal and Installation".

NO >> Repair or replace harness.

# 3. CHECK TILT SWITCH

Refer to ADP-84, "Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace tilt & telescopic switch. Refer to <u>ADP-239</u>. "Removal and Installation".

### 4. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

# Component Inspection

INFOID:0000000006455083

### 1. CHECK TILT SWITCH

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

Tilt & telescopic switch		Condition		Continuity
Terminal				
	4	Tilt switch (up)	Operate	Existed
1	4	Till Switch (up)	Release	Not existed
1	5 Tilt switch (do	Tilt switch (down)	Operate	Existed
	3	The Switch (down)	Release	Not existed

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace tilt & telescopic switch. Refer to ADP-239, "Removal and Installation".

#### TELESCOPIC SWITCH

#### < DTC/CIRCUIT DIAGNOSIS >

### TELESCOPIC SWITCH

**Description** 

Telescopic switch is equipped to the steering column. The operation signal is input to the automatic drive positioner control unit when the telescopic switch is operated.

# Component Function Check

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# 1. CHECK FUNCTION

- 1. Turn ignition switch ON.
- 2. Select "TELESCO SW-FR", "TELESCO SW-RR" in the "Data monitor" mode using CONSULT-III.
- 3. Check telescopic switch signal under the following conditions.

Monitor item	Condition		Status
TELESCO SW-FR	Telescopic switch (forward)	Operate	ON
	relescopic switch (lorward)	Release	OFF
TELESCO SW-RR	Telescopic switch (backward)	Operate	ON
TELESCO SW-KK	relescopic switch (backward)	Release	OFF

#### Is the indication normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to <a href="ADP-85">ADP-85</a>. "Diagnosis Procedure".

## Diagnosis Procedure

#### INFOID:0000000006455086

# 1. CHECK TELESCOPIC SWITCH SIGNAL

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

(+) Tilt & telescopic switch		(–)	Voltage (V) (Approx.)
Connector	Terminal		( + + )
M31	2	Ground	Rattory voltago
IVIST	3	Ground	Battery voltage

#### 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
M51	11	M31	2	Existed
IVIOT	27	IVIO I	3	LAISIEU

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

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### **TELESCOPIC SWITCH**

#### < DTC/CIRCUIT DIAGNOSIS >

Automatic drive	positioner control unit		Continuity
Connector	Terminal	Ground	Continuity
M51	11	Ground	Not existed
I CIVI	27		Not existed

#### Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-235, "Removal and Installation".

NO >> Repair or replace harness.

# 3. CHECK TELESCOPIC SWITCH

Refer to ADP-86, "Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace tilt & telescopic switch. Refer to ADP-239, "Removal and Installation".

### 4. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

# Component Inspection

INFOID:0000000006455087

# 1. CHECK TELESCOPIC SWITCH

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

Tilt & telescopic switch Terminal		Condition		Continuity
1	4	relescopic switch (forward)	Release	Not existed
ı	3	Telescopic switch (backward)	Operate	Existed
	3	Telescopic Switch (backward)	Release	Not existed

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace tilt & telescopic switch. Refer to ADP-239, "Removal and Installation".

#### **SEAT MEMORY SWITCH**

#### < DTC/CIRCUIT DIAGNOSIS >

### SEAT MEMORY SWITCH

Description INFOID:0000000006455088

Memory switch is equipped on the seat set switch and seat memory switch installed to the driver side door trim. The operation signal is input to the automatic drive positioner control unit when the set switch or memory switch is operated.

# Component Function Check

# 1. CHECK FUNCTION

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

Monitor item	Condition		Status
SET SW	SET SW	Push	ON
SET SVV	SET SW	Release	OFF
MEMORY SW 1	Memory switch 1	Push	ON
IVIEIVIORT SW I		Release	OFF
MEMORY SW 2	Mamany autitab 2	Push	ON
IVIEIVION I SVV Z	Memory switch 2	Release	OFF

#### Is the indication normal?

YES >> INSPECTION END

>> Perform diagnosis procedure. Refer to ADP-87, "Diagnosis Procedure". NO

## Diagnosis Procedure

# 1. CHECK SEAT MEMORY SWITCH SIGNAL

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

	(+)		
Seat me	emory switch	(–)	Voltage (V) (Approx.)
Connector	Terminal		(/ .pp. 0/)
	3		
D5	1	Ground	5
	2		

#### Is the inspection result normal?

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

# 2.check memory 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 seat memory switch harness connector.

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#### **SEAT MEMORY SWITCH**

#### < DTC/CIRCUIT DIAGNOSIS >

Automatic drive p	ositioner control unit	Seat mem	nory switch	Continuity
Connector	Terminal	Connector	Terminal	Continuity
	24		3	
M51	9	D5	1	Existed
	25		2	

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

Automatic drive po	sitioner control unit		Continuity
Connector	Terminal		Continuity
	24	Ground	
M51	9		Not existed
	25		

#### Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-235, "Removal and Installation".

NO >> Repair or replace harness.

# 3. CHECK MEMORY SWITCH GROUND CIRCUIT

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

Seat men	nory switch		Continuity	
Connector	Terminal	Ground	Continuity	
D5	4		Existed	

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

### 4. CHECK SEAT MEMORY SWITCH

Refer to ADP-88, "Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace seat memory switch. Refer to ADP-236, "Removal and Installation".

# 5. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

#### >> INSPECTION END

# Component Inspection

INFOID:0000000006455091

# 1. CHECK SEAT MEMORY SWITCH

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

### **SEAT MEMORY SWITCH**

### < DTC/CIRCUIT DIAGNOSIS >

Seat men	Seat memory switch Terminal		Condition	
Terr				
	3	Set switch	Push	Existed
	3	3 Set Switch	Release	Not existed
4	4	1 Memory switch 1	Push	Existed
4	l l		Release	Not existed
	2	Mamama ausitah O	Push	Existed
	2	Memory switch 2	Release	Not existed

### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace seat memory switch.Refer to <u>ADP-236, "Removal and Installation"</u>.

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#### < DTC/CIRCUIT DIAGNOSIS >

# DOOR MIRROR REMOTE CONTROL SWITCH MIRROR SWITCH

## MIRROR SWITCH: Description

INFOID:0000000006455092

It operates angle of the door mirror face.

It transmits mirror face adjust operation to AUTOMATIC DRIVE POSITIONER CONTROL UNIT.

### MIRROR SWITCH: Component Function Check

INFOID:0000000006455093

# 1. CHECK MIRROR SWITCH FUNCTION

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

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

#### Is the inspection result normal?

YES >> Mirror switch function is OK.

NO >> Refer to ADP-90, "MIRROR SWITCH: Diagnosis Procedure".

### MIRROR SWITCH: Diagnosis Procedure

INFOID:0000000006455094

# 1. CHECK MIRROR SWITCH INPUT SIGNAL

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

	(+)		
Door mirror re	mote control switch	(–)	Voltage (V) (Approx.)
Connector	Terminal		(/ .pp. 0/)
	4		
D17	12	Ground	5
DIT	13	Ground	5
	15		

### 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 door mirror remote control switch harness connector.

#### < DTC/CIRCUIT DIAGNOSIS >

Automatic drive positioner control unit Door mirror remote control switch		Continuity		
Connector	Terminal	Connector	Terminal	Continuity
M51	3	D47	15	
	4		13	Frietad
	19	D17	12	Existed
	20		4	-

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

Automatic drive positioner control unit			Continuity
Connector	Terminal		Continuity
	3 Ground		
M51	4	Glound	Not existed
	19		NOT EXISTED
	20		

### Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-235, "Removal and Installation".

NO >> Repair or replace harness.

# 3.check door mirror remote control switch ground circuit

Turn ignition switch OFF.

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

Door mirror reme	Door mirror remote control switch		Continuity
Connector	Terminal	Ground	Continuity
D17	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-91, "MIRROR SWITCH: Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace door mirror remote control switch (mirror switch). Refer to MIR-22, "Removal and Installation".

### 5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-43, "Intermittent Incident".

#### >> INSPECTION END

## MIRROR SWITCH: Component Inspection

### 1. CHECK MIRROR SWITCH

- Turn ignition switch OFF.
   Disconnect door mirror remote control switch connector.
- 3. Check continuity between door mirror remote control switch terminals.

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#### < DTC/CIRCUIT DIAGNOSIS >

Door mirror remote control switch		Condition		Continuity		
Connector	Terr	minal	Condition		Continuity	
	4			RIGHT	Existed	
	4	7 Mirror switch	4	Other than above	Not existed	
	13			LEFT	Existed	
D17	13			Mirror owitch	Other than above	Not existed
ווט	15		UP	Existed		
	15			Other than above	Not existed	
	10				DOWN	Existed
	12			Other than above	Not existed	

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace door mirror remote control switch. Refer to MIR-22, "Removal and Installation".

#### CHANGEOVER SWITCH

## CHANGEOVER SWITCH: Description

Changeover switch is integrated into 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.

### CHANGEOVER SWITCH: Component Function Check

# 1.CHECK CHANGEOVER SWITCH FUNCTION

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

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

#### Is the inspection result normal?

YES >> Changeover switch function is OK.

NO >> Refer to ADP-92, "CHANGEOVER SWITCH: Diagnosis Procedure".

# CHANGEOVER SWITCH: Diagnosis Procedure

INFOID:0000000006455098

INFOID:0000000006455096

INFOID:0000000006455097

# 1. CHECK CHANGEOVER SWITCH INPUT SIGNAL

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

	+)		V 16 0 0	
Door mirror rem	ote control switch	(–)	Voltage (V) (Approx.)	
Connector	Terminal		( 44)	
D17	10	Ground	Ę.	
DIT	11	Ground	Ground 5	3

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

# 2. CHECK CHANGEOVER SWITCH CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

1	Turn	ignition	switch	OFF
1.	IUIII	IGHILIOH	SWILLI	OI 1 .

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

Automatic drive	oositioner control unit	Door mirror remote control switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M51	2	D17	11	Existed
IVIOT	18	DII	10	LXISIGU

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

Automatic drive positioner control unit			Continuity
Connector	Terminal	Ground	Continuity
M51	2	- Ground	Not existed
I GIVI	18		Not existed

#### Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-235, "Removal and Installation".

NO >> Repair or replace harness.

# 3.check door mirror remote control switch ground circuit

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

Door mirror ren	nirror remote control switch  Continuity		Continuity
Connector	Terminal	Ground	Continuity
D17	7		Existed

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

# 4. CHECK CHANGEOVER SWITCH

Check door mirror remote control switch (changeover switch).

Refer to ADP-93, "CHANGEOVER SWITCH: Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace door mirror remote control switch (changeover switch). Refer to MIR-22, "Removal and Installation".

# 5. CHECK INTERMITTENT INCIDENT

Check intermittent incident.

Refer to GI-43, "Intermittent Incident".

#### >> INSPECTION END

# **CHANGEOVER SWITCH: Component Inspection**

# 1. CHECK CHANGEOVER SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect door mirror remote control switch connector.
- 3. Check continuity between door mirror remote control switch terminals.

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### < DTC/CIRCUIT DIAGNOSIS >

Door mirror remote control switch		Condition		Continuity	
Connector	Terr	ninal	— Condition		Continuity
	10			LEFT	Existed
D17	10	7	Change aver aveitab	Other than above	Not existed
D17	44		Changeover switch	RIGHT	Existed
	11			Other than above	Not existed

### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace door mirror remote control switch. Refer to MIR-22, "Removal and Installation".

### **POWER SEAT SWITCH GROUND CIRCUIT**

#### < DTC/CIRCUIT DIAGNOSIS >

## POWER SEAT SWITCH GROUND CIRCUIT

# Diagnosis Procedure

#### INFOID:0000000006455100

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# 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 connector and ground.

Power seat switch			Continuity
Connector	Terminal	Ground	Continuity
B510	32		Existed

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

# 2.CHECK POWER SEAT SWITCH INTERNAL CIRCUIT

Check reclining switch.

Refer to ADP-70, "Component Inspection".

### Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace power seat switch. Refer to <u>ADP-237</u>, "Removal and Installation".

# 3. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

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### TILT &TELESCOPIC SWITCH GROUND CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

### TILT &TELESCOPIC SWITCH GROUND CIRCUIT

### Diagnosis Procedure

INFOID:0000000006455101

# 1. CHECK POWER TILT & TELESCOPIC SWITCH GROUND CIRCUIT

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

Tilt & telescopic switch			Continuity
Connector	Terminal	Ground	Continuity
M31	1		Existed

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

# 2.check power tilt & telescopic switch internal circuit

Check tilt switch.

Refer to ADP-84, "Component Inspection".

### Is the inspection result normal?

YES >> GO TO 3.

NO >> Replace tilt & telescopic switch. Refer to ADP-239, "Removal and Installation".

# 3. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

>> INSPECTION END

#### **DETENTION SWITCH**

#### < DTC/CIRCUIT DIAGNOSIS >

### **DETENTION SWITCH**

Description INFOID:000000006455102

Detention switch is installed on A/T shift selector. It is turned OFF when the Selector lever is in P position. The driver seat control unit judges that the Selector lever is in P position if continuity does not exist in this circuit.

# Component Function Check

#### INFOID:0000000006455103

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# 1. CHECK FUNCTION

- 1. Turn ignition switch ON.
- 2. Select "DETENT SW" signal in the "Data monitor" mode using CONSULT-III.
- 3. Check detention switch signal under the following conditions.

Monitor item	Condition	Status	
		P position	OFF
DETENT SW	Selector lever	Other than above	ON

#### Is the indication normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to <u>ADP-97</u>, "<u>Diagnosis Procedure</u>".

## Diagnosis Procedure

#### INFOID:0000000006455104

### 1. CHECK DTC WITH "BCM"

Check "Self Diagnostic Result" for BCM using CONSULT-III.

Is the either DTC B2601, B2602, B2603, B2604 or B2605 detected?

YES >> Check the DTC. Refer to ADP-180, "DTC Index".

NO >> GO TO 2.

# 2.CHECK DETENTION SWITCH INPUT SIGNAL

Turn ignition switch OFF.

- Disconnect A/T shift selector harness connector.
- 3. Turn ignition switch ON.
- Check voltage between A/T shift selector harness connector and ground.

( A/T shif	(+) A/T shift selector		Voltage (V) (Approx.)	
Connector	Terminal		(, 4, 1, 2,)	
M137	11	Ground	Battery voltage	

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 3.

# 3.check detention switch circuit

- 1. Turn ignition switch OFF.
- Disconnect driver seat control unit.
- Check continuity between driver seat control unit harness connector and A/T shift selector harness connector.

Driver seat	control unit	A/T shift selector		Continuity
Connector	Terminal	Connector Terminal		Continuity
B503	21	M137	11	Existed

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

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### **DETENTION SWITCH**

#### < DTC/CIRCUIT DIAGNOSIS >

Driver seat control unit			Continuity
Connector	Terminal	Ground	Continuity
B503	21		Not existed

#### Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-234, "Removal and Installation".

NO >> Repair or replace harness.

### 4. CHECK DETENTION SWITCH

Refer to ADP-98, "Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace A/T shift selector. Refer to <u>TM-275</u>, "<u>2WD</u>: <u>Removal and Installation</u>".

### 5. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

#### >> INSPECTION END

# Component Inspection

INFOID:0000000006455105

# 1. CHECK DETENTION SWITCH

- 1. Turn ignition switch OFF.
- 2. Disconnect A/T shift selector connector.
- Check A/T shift selector terminals.

	A/T shift selector		Condition		Continuity	
Connector	Terr	minal	Condition		Continuity	
M137	10	11 Selector lever		P position	Existed	
IVITO	10	11	Selector level	Other than above	Not existed	

#### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace A/T shift selector. Refer to TM-275, "2WD : Removal and Installation".

#### PARKING BRAKE SWITCH

#### < DTC/CIRCUIT DIAGNOSIS >

### PARKING BRAKE SWITCH

Description INFOID:0000000006455106

Parking brake switch is installed on parking brake lever. It is turned ON when the parking brake is applied. The driver seat control unit judges that the parking brake is engaged if continuity exists in this circuit.

# Component Function Check

# 1. CHECK PARKING BRAKE SWITCH INPUT SIGNAL

- Select "PARK BRAKE SW" in the "Data Monitor" mode using CONSULT-III.
- Check parking brake switch signal under the following conditions.

Monitor item	Condition		Status
PARK BRAKE SW	Parking brake	Applied	ON
FAIR BRARL SW		Release	OFF

### Is the indication normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to ADP-99. "Diagnosis Procedure".

### Diagnosis Procedure

# 1. CHECK PARKING BRAKE SWITCH INPUT SIGNAL

- Turn ignition switch OFF.
- Disconnect A/T shift selector harness connector. 2.
- 3. Turn ignition switch ON.
- Check voltage between parking brake switch harness connector and ground.

(+ Parking bra	+) ake switch	(-)	Voltage (V) (Approx.)	
Connector	Terminal		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
B14	1	Ground	Battery voltage	

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

# 2.CHECK PARKING BRAKE SWITCH CIRCUIT

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

Driver seat	control unit	Parking brake switch		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B503	8	B14	1	Existed

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

Driver seat control unit			Continuity	
Connector	Terminal	Ground	Continuity	
B503	8		Not existed	

#### Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-234, "Removal and Installation".

NO >> Repair or replace harness.

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### **PARKING BRAKE SWITCH**

#### < DTC/CIRCUIT DIAGNOSIS >

# 3.CHECK PARKING BRAKE SWITCH

Refer to ADP-100, "Component Inspection".

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Adjust or replace parking brake switch.

### 4. CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

#### >> INSPECTION END

### Component Inspection

INFOID:0000000006455109

# 1. CHECK PARKING BRAKE SWITCH

- 1. Turn ignition switch OFF.
- Disconnect parking brake switch connector.
- 3. Check continuity between parking brake switch terminal and ground part of parking brake switch.

Parking brake		Condition		Continuity	
Terminal				Continuity	
Ground part of parking		Parking brake	Applied	Existed	
1	brake switch	Parking brake	Release	Not existed	

#### Is the inspection result normal?

YES >> INSPECTION END

NO-1 >> Adjust or replace parking brake switch (pedal type). Refer to PB-6. "PEDAL TYPE: Exploded View".

NO-2 >> Adjust or replace parking brake switch (lever type). Refer to PB-7, "LEVER TYPE: Exploded View".

#### SLIDING SENSOR

#### < DTC/CIRCUIT DIAGNOSIS >

# SLIDING SENSOR

Description INFOID:0000000006455110

- The sliding sensor is installed to the seat slide cushion frame.
- The pulse signal is input to the driver seat control unit when sliding is performed.
- The driver seat control unit counts the pulse and calculates the sliding amount of the seat.

### Component Function Check

# 1. CHECK FUNCTION

- Turn ignition switch ON.
- Select "SLIDE PULSE" in the "Data monitor" mode using CONSULT-III. 2.
- Check sliding sensor signal under the following conditions.

Monitor item	Condition		Valve
		Operate (forward)	Change (increase)*1
SLIDE PULSE	Seat sliding	Operate (backward)	Change (decrease)*1
		Release	No change <sup>*1</sup>

<sup>\*1:</sup> The value at the seat position attained when the battery is connected is considered to be 32768.

#### Is the indication normal?

YES >> INSPECTION END

>> Perform diagnosis procedure. Refer to ADP-101, "Diagnosis Procedure". NO

# Diagnosis Procedure

1. CHECK SLIDING SENSOR SIGNAL

Turn ignition switch ON.

Check voltage signal between driver seat control unit harness connector and ground with oscilloscope.

(+) Driver seat co	ntrol unit	(-)	Condition		Voltage (V) (Approx.)
Connector	Terminal				(приох.)
B503	24	Ground	Seat sliding	Operate Other than	10mSec/div 2V/div JMJIA0119ZZ
				above	0 or 5

#### Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-234, "Removal and Installation".

>> GO TO 2. NO

# 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.

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### **SLIDING SENSOR**

#### < DTC/CIRCUIT DIAGNOSIS >

Driver seat	Driver seat control unit		Sliding sensor	
Connector	Terminal	Connector Terminal		Continuity
B503	24	B526	24	Existed

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

Driver seat control unit			Continuity
Connector	Terminal	Ground	Continuity
B503	24		Not existed

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

# 3. CHECK SLIDING SENSOR POWER SUPPLY

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

(+) Sliding sensor		(-)	Voltage (V) (Approx.)
Connector	Terminal		, , ,
B526	16	Ground	Battery voltage

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

Driver seat control unit		Sliding sensor		Continuity
Connector	Terminal	Connector Terminal		Continuity
B503	16	B526	16	Existed

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

Driver seat	control unit		Continuity
Connector	Terminal	Ground	Continuity
B503	16		Not existed

#### Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-234, "Removal and Installation"</u>.

NO >> Repair or replace harness.

# 5. CHECK SLIDING SENSOR GROUND CIRCUIT 1

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

Driver seat control unit		Sliding sensor		Continuity	
Connector	Terminal	Connector Terminal		Continuity	
B503	31	B526	31	Existed	

#### SLIDING SENSOR

#### < DTC/CIRCUIT DIAGNOSIS >

### Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

# 6.CHECK SLIDING SENSOR GROUND CIRCUIT 2

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

Driver seat control unit			Continuity
Connector Terminal		Ground	Continuity
B503	31		Existed

#### Is the inspection result normal?

YES >> Replace sliding sensor (Built in seat slide cushion frame). Refer to <u>ST-22, "WITH ELECTRIC MOTOR: Exploded View"</u>.

NO >> Replace driver seat control unit. Refer to <u>ADP-234, "Removal and Installation"</u>.

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#### **RECLINING SENSOR**

#### < DTC/CIRCUIT DIAGNOSIS >

### RECLINING SENSOR

Description INFOID:0000000064551113

- The reclining motor is installed to the seatback frame.
- The pulse signal is input to the driver seat control unit when the reclining is operated.
- The driver seat control unit counts the pulse and calculates the reclining amount of the seat.

# Component Function Check

INFOID:0000000006455114

# 1. CHECK FUNCTION

- 1. Turn ignition switch ON.
- 2. Select "RECLN PULSE" in the "Data monitor" mode using CONSULT-III.
- 3. Check reclining sensor signal under the following conditions.

Monitor item	Condition		Value
			Change (increase)*1
RECLN PULSE	Seat reclining	Operate (backward)	Change (decrease)*1
		Release	No change <sup>*1</sup>

<sup>\*1:</sup> The value at the seat position attained when the battery is connected is considered to be 32768.

#### Is the indication normal?

YES >> INSPECTION END

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

# Diagnosis Procedure

INFOID:0000000006455115

# 1. CHECK RECLINING SENSOR SIGNAL

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

	Driver seat control unit		Con	dition	Voltage (V) (Approx.)
Connector	Terminal				
B503	9	Ground	Seat reclining	Operate Other than	10mSec/div
				above	0 or 5

#### Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-234, "Removal and Installation".

NO >> GO TO 2.

# 2. CHECK RECLINING SENSOR CIRCUIT

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

#### RECLINING SENSOR

#### < DTC/CIRCUIT DIAGNOSIS >

Driver seat control unit		Reclining motor		Continuity	
Connector	Terminal	Connector Terminal		Continuity	
B503	9	B523	9	Existed	

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

Driver seat control unit			Continuity
Connector	Connector Terminal		Continuity
B503	9		Not existed

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

# 3.CHECK RECLINING SENSOR POWER SUPPLY

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

(+) Reclining motor		(–)	Voltage (V) (Approx.)
Connector	Terminal		(11 )
B523	16	Ground	Battery voltage

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

### f 4.CHECK RECLINING SENSOR POWER SUPPLY CIRCUIT

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

Driver seat	Driver seat control unit		ng motor	Continuity	
Connector	Terminal	Connector Terminal		Continuity	
B503	16	B523	16	Existed	

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

Driver seat control unit			Continuity
Connector Terminal		Ground	Continuity
B503	16		Not existed

### Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-234, "Removal and Installation".

NO >> Repair or replace harness.

# 5.CHECK RECLINING SENSOR GROUND CIRCUIT 1

Turn ignition switch OFF.

Revision: 2011 December

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

Driver seat control unit		Reclining motor		Continuity
Connector	Terminal	Connector Terminal		Continuity
B503	31	B523	31	Existed

**ADP-105** 

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#### **RECLINING SENSOR**

#### < DTC/CIRCUIT DIAGNOSIS >

#### Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

# 6. CHECK RECLINING SENSOR GROUND CIRCUIT 2

- 1. Connect driver seat control unit connector.
- 2. Check continuity between reclining sensor harness connector and ground.

Driver seat control unit			Continuity
Connector Terminal		Ground	Continuity
B503	31		Existed

### Is the inspection result normal?

YES >> Replace reclining motor. Refer to <u>SE-188, "Exploded View"</u>.

NO >> Replace driver seat control unit. Refer to <u>ADP-234, "Removal and Installation"</u>.

### LIFTING SENSOR (FRONT)

#### < DTC/CIRCUIT DIAGNOSIS >

# LIFTING SENSOR (FRONT)

Description INFOID:0000000006455116

- The lifting sensor (front) is installed to the seat slide cushion frame.
- The pulse signal is input to the driver seat control unit when the lifting (front) is operated.
- The driver seat control unit counts the pulse and calculates the lifting (front) amount of the seat.

## Component Function Check

# 1. CHECK FUNCTION

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

Monitor item	Condition		Value
			Change (increase)*1
LIFT FR PULSE	LIFT FR PULSE Seat lifting (front)	Operate (Down)	Change (decrease)*1
		Release	No change <sup>*1</sup>

<sup>\*1:</sup>The value at the seat position attained when the battery is connected is considered to be 32768.

#### Is the indication normal?

YES >> INSPECTION END

>> Perform diagnosis procedure. Refer to ADP-107, "Diagnosis Procedure". NO

### Diagnosis Procedure

INFOID:0000000006455118

INFOID:0000000006455117

# 1. CHECK LIFTING SENSOR (FRONT) SIGNAL

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

(+) Driver seat cor	I	(–)	Con	dition	Voltage (V) (Approx.)
Connector	Terminal				
B503	25	Ground	Seat Lifting (front)	Operate Other than above	10mSec/div 2V/div JMJIA0119ZZ

#### Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-234, "Removal and Installation".

NO >> GO TO 2.

# 2.check lifting sensor (front) circuit

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

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### LIFTING SENSOR (FRONT)

#### < DTC/CIRCUIT DIAGNOSIS >

Driver seat	Driver seat control unit		Lifting motor (front)		
Connector	Terminal	Connector Terminal		Continuity	
B503	25	B527	25	Existed	

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

Driver seat control unit			Continuity	
Connector	Connector Terminal		Continuity	
B503	25		Not existed	

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

# 3.check lifting sensor (front) power supply

- 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	Terminal			
B527	16	Ground	Battery voltage	

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

# 4. CHECK LIFTING SENSOR (FRONT) POWER SUPPLY CIRCUIT

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

Driver seat control unit		Lifting motor (front)		Continuity
Connector	Terminal	Connector Terminal		Continuity
B503	16	B527	16	Existed

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

Driver seat control unit			Continuity
Connector Terminal		Ground	Continuity
B503	16		Not existed

### Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to <u>ADP-234, "Removal and Installation"</u>.

NO >> Repair or replace harness.

# 5. CHECK LIFTING SENSOR (FRONT) GROUND CIRCUIT 1

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

Driver seat	Driver seat control unit		otor (front)	Continuity
Connector	Terminal	Connector Terminal		Continuity
B503	31	B527	31	Existed

## **LIFTING SENSOR (FRONT)**

### < DTC/CIRCUIT DIAGNOSIS >

## Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

# $6.\mathsf{CHECK}$ LIFTING SENSOR (FRONT) GROUND CIRCUIT 2

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

Driver seat control unit			Continuity
Connector Terminal		Ground	Continuity
B503 31			Existed

## Is the inspection result normal?

YES >> Replace lifting motor (front). Refer to <u>SE-188, "Exploded View"</u>.

NO >> Replace driver seat control unit. Refer to <u>ADP-234, "Removal and Installation"</u>.

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## LIFTING SENSOR (REAR)

### < DTC/CIRCUIT DIAGNOSIS >

# LIFTING SENSOR (REAR)

Description INFOID:0000000006455119

- The lifting sensor (rear) is installed to the seat slide cushion frame.
- The pulse signal is input to the driver seat control unit when the lifting (rear) is operated.
- The driver seat control unit counts the pulse and calculates the lifting (rear) amount of the seat.

# Component Function Check

INFOID:0000000006455120

# 1. CHECK FUNCTION

- 1. Turn ignition switch ON.
- 2. Select "LIFT RR PULSE" in the "Data monitor" mode using CONSULT-III.
- 3. 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 <sup>*1</sup>

<sup>\*1:</sup> The value at the seat position attained when the battery is connected is considered to be 32768.

## Is the indication normal?

YES >> INSPECTION END

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

# Diagnosis Procedure

INFOID:0000000006455121

# 1. CHECK LIFTING SENSOR (REAR) SIGNAL

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

(+) Driver seat contr	ol unit Terminal	(-)	Condition		Voltage (V) (Approx.)
B503	10	Ground	Seat Lifting (rear)	Operate Other than above	10mSec/div 2V/div JMJIA0119ZZ 0 or 5

#### Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-234, "Removal and Installation".

NO >> GO TO 2.

# 2.CHECK LIFTING SENSOR (REAR) CIRCUIT

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

## LIFTING SENSOR (REAR)

### < DTC/CIRCUIT DIAGNOSIS >

Driver seat	control unit	Lifting m	otor (rear)	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B503	10	B529	10	Existed

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

Driver seat control unit			Continuity
Connector Terminal		Ground	Continuity
B503	10		Not Existed

## Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

# 3.check lifting sensor (rear) power supply

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

(+) Lifting motor (rear)		(-)	Voltage (V) (Approx.)
Connector	Terminal		(11 - 7
B529	16	Ground	Battery voltage

### Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

# 4.CHECK LIFTING SENSOR (REAR) POWER SUPPLY CIRCUIT

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

Driver seat	control unit	Lifting m	otor (rear)	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B503	16	B529	16	Existed

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

Driver seat control unit			Continuity
Connector	Terminal	Ground	Continuity
B503	16		Not existed

## Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-234, "Removal and Installation".

NO >> Repair or replace harness.

# 5.CHECK LIFTING SENSOR (REAR) GROUND CIRCUIT 1

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

Driver seat	control unit	Lifting m	otor (rear)	Continuity
Connector	Terminal	Connector	Terminal	Continuity
B503	31	B529	31	Existed

**ADP-111** Revision: 2011 December 2011 G Coupe

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# **LIFTING SENSOR (REAR)**

## < DTC/CIRCUIT DIAGNOSIS >

## Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

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

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

Driver seat control unit			Continuity
Connector	Terminal	Ground	Continuity
B503	31		Existed

## Is the inspection result normal?

YES >> Replace lifting motor (rear). Refer to <u>SE-188, "Exploded View"</u>.

NO >> Replace driver seat control unit. Refer to <u>ADP-234, "Removal and Installation"</u>.

## TILT SENSOR

Description INFOID:000000006455122

- The tilt sensor is installed to the steering column assembly.
- The resistance of tilt sensor changes according to the up/down position of steering column.
- The terminal voltage of automatic drive positioner control unit changes according to a change of tilt sensor resistance. Automatic drive positioner control unit calculates the tilt position from the voltage.

## Component Function Check

# 1.check function

- 1. Turn ignition switch ON.
- 2. Select "TILT SEN" in the "Data monitor" mode using CONSULT-III.
- 3. Check the tilt sensor signal under the following condition.

Monitor item	Condition	Value
TILT SEN	Tilt position	Change between 1.1 V (Close to top) 3.9 V (Close to bottom)

### Is the indication normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to <u>ADP-113</u>, "<u>Diagnosis Procedure</u>".

## Diagnosis Procedure

# 1. CHECK TILT SENSOR SIGNAL

- Turn ignition switch ON.
- 2. Check voltage automatic drive positioner control unit harness connector and ground.

	(+) Automatic drive positioner control unit		Condition	Voltage (V) (Approx.)
Connector	Terminal			(. 44)
M51	7	Ground	Tilt position	Change between 1.1 V (Close to top) 3.9 V (Close to bottom)

### Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-235, "Removal and Installation".

NO >> GO TO 2.

# 2.check tilt sensor circuit

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

Automatic drive positioner control unit		Tilt & teleso	Continuity		
Connector	Terminal	Connector Terminal		Continuity	
M51	7	M48 3		Existed	

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

Automatic drive po	ositioner control unit		Continuity	
Connector	Terminal	Ground	Continuity	
M51	7		Not existed	

#### Is the inspection result normal?

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### **TILT SENSOR**

### < DTC/CIRCUIT DIAGNOSIS >

YES >> GO TO 3.

NO >> Repair or replace harness.

# 3.CHECK TILT SENSOR POWER SUPPLY

- 1. Connect automatic drive positioner control unit connector.
- 2. Turn ignition switch ON.
- 3. Check voltage between tilt & telescopic sensor harness connector and ground.

(	+)		Voltage (V)	
Tilt & teleso	Tilt & telescopic sensor  Connector Terminal		(Approx.)	
Connector	Connector			
M48	1	Ground	5	

### Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

# 4. CHECK TILT 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 tilt & telescopic sensor harness connector.

Automatic drive positioner control unit		Tilt & teleso	Continuity	
Connector	Terminal	Connector Terminal		Continuity
M52	33	M48	1	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	
M52	33		Not existed	

### Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-235, "Removal and Installation".

NO >> Repair or replace harness.

# CHECK TILT 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 tilt & telescopic sensor harness connector.

Automatic drive positioner control unit		Tilt & telescopic sensor		Continuity	
Connector	Terminal	Connector Terminal		Continuity	
M52	41	M48	4	Existed	

## Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

### **6.**CHECK TILT SENSOR GROUND CIRCUIT 2

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

Automatic drive po	sitioner control unit		Continuity	
Connector	Connector Terminal		Continuity	
M52	41		Existed	

## **TILT SENSOR**

## < DTC/CIRCUIT DIAGNOSIS >

## Is the inspection result normal?

YES >> Replace tilt & telescopic sensor (Built in steering column assembly). Refer to <u>ST-19, "WITHOUT ELECTRIC MOTOR: Exploded View"</u>.

NO >> Replace automatic drive positioner control unit. Refer to ADP-235, "Removal and Installation".

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## TELESCOPIC SENSOR

Description INFOID:000000006455125

- The telescopic sensor is installed to the steering column assembly.
- The resistance of telescopic sensor changes according to the forward/backward position of steering column.
- The terminal voltage of automatic drive positioner control unit changes according to a change of telescopic sensor resistance. Automatic drive positioner control unit calculates the telescopic position from the voltage.

## Component Function Check

INFOID:0000000006455126

# 1. CHECK FUNCTION

- Turn ignition switch ON.
- 2. Select "TELESCO SEN" in the "Data monitor" mode using CONSULT-III.
- Check the tilt sensor signal under the following conditions.

Monitor item	Condition	Value
TELESCO SEN	Telescopic position	Change between 0.5 [V] (close to top) 4.5 [V] (close to bottom)

### Is the indication normal?

YES >> INSPECTION END.

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

## Diagnosis Procedure

INFOID:0000000006455127

# 1. CHECK TELESCOPIC SENSOR SIGNAL

- 1. Turn ignition switch ON.
- 2. Check voltage automatic drive positioner control unit harness connector and ground.

(+) Automatic drive positioner control unit		(-)	Condition	Voltage (V) (Approx.)	
Connector	Terminal	nal			
M51	23	Ground	Telescopic position	Change between 0.5 [V] (close to top) 4.5 [V] (close to bottom)	

### Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-235, "Removal and Installation".

NO >> GO TO 2.

# 2. CHECK TELESCOPIC SENSOR CIRCUIT

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

Automatic drive positioner control unit		Tilt & teleso	Continuity		
Connector	Terminal	Connector Terminal			
M51	23	M48	2	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
M51	23		Not existed

#### Is the inspection result normal?

## TELESCOPIC SENSOR

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YES >> GO TO 3.

NO >> Repair or replace harness.

# 3.CHECK TELESCOPIC SENSOR POWER SUPPLY

- 1. Connect automatic drive positioner control unit connector.
- Turn ignition switch ON. 2.
- Check voltage between tilt & telescopic sensor harness connector and ground.

(+)			V I 00	
Tilt & telescopic sensor		(–)	Voltage (V) (Approx.)	
Connector	Terminal		<b>(11)</b>	
M48	1	Ground	5	

### Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

## f 4 .CHECK TELESCOPIC 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 tilt & telescopic sensor harness connector.

Automatic drive po	sitioner control unit	Tilt & teleso	copic sensor	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M52	33	M48	1	Existed

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

Automatic drive positioner control unit				Continuity
Connec	Connector Terminal		Ground	Continuity
M52		33		Not existed

#### Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-235, "Removal and Installation".

NO >> Repair or replace harness.

# ${f 5.}$ CHECK TELESCOPIC SENSOR GROUND CIRCUIT 1

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

Automatic drive po	sitioner control unit	Tilt & telescopic sensor		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M52	41	M48	4	Existed

## Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

## O.CHECK TELESCOPIC SENSOR GROUND CIRCUIT 2

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

Automatic drive positioner control unit			Continuity
Connector	Terminal	Ground	Continuity
M52	41		Existed

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## **TELESCOPIC SENSOR**

## < DTC/CIRCUIT DIAGNOSIS >

## Is the inspection result normal?

- YES >> Replace tilt & telescopic sensor (Built in steering column assembly). Refer to <u>ST-19, "WITHOUT ELECTRIC MOTOR: Exploded View"</u>.
- NO >> Replace automatic drive positioner control unit. Refer to ADP-235, "Removal and Installation".

### < DTC/CIRCUIT DIAGNOSIS >

# MIRROR SENSOR **DRIVER SIDE**

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## **DRIVER SIDE**: Description

INFOID:0000000006455128

- The mirror sensor (driver side) is installed to the door mirror (driver side).
- The resistance of 2 sensors (horizontal and vertical) is changed when the door mirror (driver side) is operated.
- · Automatic drive positioner control unit calculates the door mirror position according to the change of the voltage of 2 sensor input terminals.

# DRIVER SIDE: Component Function Check

#### D INFOID:0000000006455129

# 1. CHECK FUNCTION

- 1. Turn ignition switch ON.
- Select "MIR/SEN LH U-D", "MIR/SEN LH R-L" in the "Data monitor" using CONSULT-III.
- 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 Hillor (driver side)	Change between 0.6 [V] (close to left edge) 3.4 [V] (close to right edge)

### Is the indication normal?

YES >> INSPECTION END

>> Perform diagnosis procedure. Refer to ADP-119, "DRIVER SIDE: Diagnosis Procedure".

# DRIVER SIDE: Diagnosis Procedure

#### INFOID:0000000006455130

# 1. CHECK DOOR MIRROR SENSOR (DRIVER SIDE) SIGNAL

- Turn ignition switch ON.
- Check voltage automatic drive positioner control unit harness connector and ground. 2.

(+) Automatic drive positioner control unit		(–)	Condition	Voltage (V) (Approx.)
Connector	Connector Terminal			(, , , , , , , , , , , , , , , , , , ,
M51	6	Ground	Door mirror (Driver	Change between 3.4 [V] (close to peak) 0.6 [V] (close to valley)
IVIS I	22		side) position	Change between 3.4 [V] (close to left edge) 0.6 [V] (close to right edge)

### Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-235, "Removal and Installation". NO >> GO TO 2.

# 2.CHECK DOOR MIRROR (DRIVER SIDE) SENSOR CIRCUIT

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

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**ADP-119** Revision: 2011 December 2011 G Coupe

### < DTC/CIRCUIT DIAGNOSIS >

Automatic drive p	ositioner control unit	Door mirror	(driver side)	Continuity
Connector	Terminal	Connector Terminal		Continuity
M51	6	D3	9	Existed
IVIO	22	DS	10	Existed

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

Automatic drive positioner control unit			Continuity
Connector	Terminal	Ground	Continuity
M51	6	Ground	Not existed
I CIVI	22		NOT EXISTER

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

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

- 1. Connect automatic drive positioner control unit connector.
- 2. Turn ignition switch ON.
- 3. Check voltage between door mirror (driver side) harness connector and ground.

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

### Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

# 4. CHECK DOOR MIRROR (DRIVER SIDE) 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 door mirror (driver side) harness connector.

Automatic drive po	sitioner control unit	Door mirror	(driver side)	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M52	33	D3	11	Existed

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

Automatic drive positioner control unit			Continuity
Connector Terminal		Ground	Continuity
M52	33		Not existed

#### Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-235, "Removal and Installation".

NO >> Repair or replace harness.

# 5. CHECK DOOR MIRROR (DRIVER SIDE) SENSOR GROUND 1

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

## < DTC/CIRCUIT DIAGNOSIS >

Automatic drive po	sitioner control unit	Door mirror (driver side)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M52	41	D3	12	Existed

#### Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

## $\mathsf{6}.\mathsf{check}$ door mirror (driver side) sensor ground 2

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

Automatic drive positioner control unit			Continuity
Connector	Terminal	Ground	Continuity
M52	41		Existed

## Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-235, "Removal and Installation".

NO >> Replace door mirror sensor (Built in passenger side door mirror). Refer to MIR-19, "DOOR MIR-ROR ASSEMBLY: Removal and Installation".

## PASSENGER SIDE

## PASSENGER SIDE: Description

The mirror sensor (passenger side) is installed to the door mirror (passenger side).

- The resistance of 2 sensors (horizontal and vertical) is changed when the door mirror (passenger side) is operated.
- Automatic drive positioner control unit calculates the door mirror position according to the change of the voltage of 2 sensor input terminals.

# PASSENGER SIDE: Component Function Check

1. CHECK FUNCTION

- Turn ignition switch ON.
- Select "MIR/SEN RH U-D", "MIR/SEN RH R-L" in the "Data monitor" using CONSULT-III. 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 million (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

>> Perform diagnosis procedure. Refer to ADP-121, "PASSENGER SIDE: Diagnosis Procedure".

# PASSENGER SIDE : Diagnosis Procedure

# 1. CHECK DOOR MIRROR SENSOR (PASSENGER SIDE) SIGNAL

- Turn ignition switch ON.
- Check voltage automatic drive positioner control unit harness connector and ground.

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### < DTC/CIRCUIT DIAGNOSIS >

Automatic drive p	(+) Automatic drive positioner control unit		Condition	Voltage (V) (Approx.)
Connector	Terminal			(/\pprox.)
M51	5	— Ground	Door mirror (Passenger side) position	Change between 3.4 [V] (close to peak) 0.6 [V] (close to valley)
I GIVI	21			Change between 3.4 [V] (close to left edge) 0.6 [V] (close to right edge)

### Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to <u>ADP-235, "Removal and Installation"</u>. NO >> GO TO 2.

# 2.CHECK DOOR MIRROR (PASSENGER SIDE) SENSOR CIRCUIT

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

Automatic drive po	ositioner control unit	Door mirror (passenger side)		Continuity
Connector	Terminal	Connector Terminal		Continuity
M51	5	D33	9	Existed
IVIST	21	D33	10	LXISIGU

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

Automatic drive po	Automatic drive positioner control unit		Continuity
Connector	Terminal	Ground	Continuity
M51	5	Ground	Not existed
I CIVI	21		NOI EXISIEU

### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

# $3. {\tt CHECK\ DOOR\ MIRROR\ SENSOR\ (PASSENGER\ SIDE)\ POWER\ SUPPLY}$

- 1. Connect automatic drive positioner control unit connector.
- 2. Turn ignition switch ON.
- 3. Check voltage between door mirror (passenger side) harness connector and ground.

(+) Door mirror (passenger side)		(-)	Voltage (V) (Approx.)
Connector	Terminal		(11 - 7
D33	11	Ground	5

## Is the inspection result normal?

YES >> GO TO 5.

NO >> GO TO 4.

# 4. 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.

### < DTC/CIRCUIT DIAGNOSIS >

Automatic drive po	ositioner control unit	Door mirror (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
M52	33	D33	11	Existed

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

Automatic drive positioner control unit			Continuity
Connector	Connector Terminal		Continuity
M52	33		Not existed

## Is the inspection result normal?

YES >> Replace automatic driver positioner control unit. Refer to ADP-235, "Removal and Installation".

NO >> Repair or replace harness.

# ${f 5.}$ CHECK DOOR MIRROR (PASSENGER SIDE) SENSOR GROUND 1

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
M52	41	D33	12	Existed

### Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace harness.

## 6.CHECK DOOR MIRROR (PASSENGER SIDE) SENSOR GROUND 2

1. Connect automatic drive positioner control unit connector.

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

Automatic drive positioner control unit			Continuity
Connector	Terminal	Ground	Continuity
M52	41		Existed

#### Is the inspection result normal?

NO

YES >> Replace automatic drive positioner control unit. Refer to ADP-235, "Removal and Installation".

>> Replace door mirror sensor (Built in passenger side door mirror). Refer to MIR-19, "DOOR MIR-ROR ASSEMBLY: Removal and Installation".

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Revision: 2011 December ADP-123 2011 G Coupe

## **SLIDING MOTOR**

### < DTC/CIRCUIT DIAGNOSIS >

## SLIDING MOTOR

Description INFOID:000000006455134

- The seat sliding motor is installed to the seat cushion frame.
- The seat sliding motor is activated with the driver seat control unit.
- The seat is slid frontward/rearward by changing the rotation direction of sliding motor.

# Component Function Check

INFOID:0000000006455135

## 1. CHECK FUNCTION

- 1. Turn ignition switch ON.
- Select "SEAT SLIDE" in "Active test" mode using CONSULT-III.
- Check the sliding motor operation.

Test item		Desc	ription
	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-124, "Diagnosis Procedure".

# Diagnosis Procedure

INFOID:0000000006455136

# 1. CHECK SLIDING MOTOR POWER SUPPLY

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

(+) Sliding mo	(+)  Sliding motor  Connector Terminal		Condition		Voltage (V) (Approx.)	
Connector				( 44 )		
				OFF	0	
	35	Ground		FR (forward)	Battery voltage	
B525			Ground SEAT SI	SEAT SLIDE	RR (backward)	0
D020				SEAT SLIDE	OFF	0
	42			42		FR (forward)
				RR (backward)	Battery voltage	

#### Is the inspection result normal?

YES >> Replace sliding motor. (Built in seat slide cushion frame.) Refer to <u>SE-188. "Exploded View"</u>.

NO >> GO TO 2.

# 2.CHECK SLIDING MOTOR CIRCUIT

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

## **SLIDING MOTOR**

### < DTC/CIRCUIT DIAGNOSIS >

Driver sea	t control unit	Sliding motor		Sliding motor		Continuity
Connector	Terminal	Connector Terminal		Continuity		
B504	35	B525	35	Existed		
D304	42	D020	42	Existed		

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

Driver sea	t control unit		Continuity
Connector	Terminal	Ground	Continuity
B504	35	Ground	Not existed
B304	42		Not existed

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

## 3.CHECK SLIDING MOTOR

Refer to ADP-125, "Component Inspection".

### Is the inspection result normal?

>> Replace driver seat control unit. Refer to ADP-234, "Removal and Installation". YES

>> Replace sliding motor. (Built in seat slide cushion frame.) Refer to SE-188, "Exploded View". NO

# Component Inspection

# 1. CHECK SLIDING MOTOR-1

Visually check the sliding motor for foreign object, and check that the sliding motor is not broken.

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace seat cushion frame (sliding motor).

# 2. CHECK SLIDING MOTOR-2

- Turn ignition switch OFF.
- Disconnect sliding motor connector. 2.
- Supply sliding motor terminals with battery voltage and check operation.

Terr	minal	Operation
(+)	(-)	- Operation
35	42	Forward
42	35	Backward

### Is the inspection result normal?

YES >> Sliding motor is OK.

NO >> Replace sliding motor. (Built in seat slide cushion frame.) Refer to SE-188, "Exploded View". ADP

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**ADP-125** Revision: 2011 December 2011 G Coupe

### **RECLINING MOTOR**

### < DTC/CIRCUIT DIAGNOSIS >

## RECLINING MOTOR

Description INFOID:000000006455138

- The seat reclining motor is installed to the seat back frame.
- The seat reclining motor is activated with the driver seat control unit.
- The seatback is reclined frontward/rearward by changing the rotation direction of reclining motor.

# Component Function Check

INFOID:0000000006455139

## 1. CHECK FUNCTION

- 1. Turn ignition switch ON.
- 2. Select "SEAT RECLINING" in "Active test" mode using CONSULT-III.
- Check the reclining motor operation.

Test ite	m	Desc	ription
	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 <u>ADP-126, "Diagnosis Procedure"</u>.

# Diagnosis Procedure

INFOID:0000000006455140

# 1. CHECK RECLINING MOTOR POWER SUPPLY

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

	(+)  Reclining motor  Connector Terminal		Condition		Voltage (V) (Approx.)			
Connector				, , ,				
				OFF	0			
	36			FR (forward)	Battery voltage			
B523		Ground	SEAT RECLINING	RR (backward)	0			
B323		Ground	Glound	Glound	Glound SEAT RECEIVING	SEAT RECLINING	OFF	0
	44				FR (forward)	0		
				RR (backward)	Battery voltage			

### Is the inspection result normal?

YES >> Replace reclining motor. (Built in seat back frame.) Refer to <u>SE-188. "Exploded View"</u>.

NO >> GO TO 2.

# 2.check reclining motor circuit

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

## **RECLINING MOTOR**

### < DTC/CIRCUIT DIAGNOSIS >

Driver sea	Driver seat control unit		Reclining motor	
Connector	Terminal	Connector	Terminal	Continuity
B504	36	B523	36	Existed
D304	44	D023	44	EXISTEC

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

Driver seaf	t control unit		Continuity
Connector	Terminal	Ground	Continuity
B504	36	- Ground	Not existed
B304	44		Not existed

## Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

## **3.**CHECK RECLINING MOTOR

Refer to ADP-127, "Component Inspection".

### Is the inspection result normal?

>> Replace driver seat control unit. Refer to ADP-234, "Removal and Installation". YES

NO >> Replace reclining motor. (Built in seat slide cushion frame.) Refer to SE-188, "Exploded View".

## Component Inspection

1. CHECK RECLINING MOTOR-1

Visually check the reclining motor for foreign object, and check that the reclining motor is not broken.

## Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace seatback frame (reclining motor).

# 2.CHECK RECLINING MOTOR-2

- Turn ignition switch OFF.
- Disconnect reclining motor connector. 2.
- Supply reclining motor terminals with battery voltage and check operation.

Terr	ninal	Operation	
(+)	(-)	Ореганоп	
36	44	Forward	
44	36	Backward	

### Is the inspection result normal?

YES >> Reclining motor is OK.

NO >> Replace reclining motor. (Built in seat slide cushion frame.) Refer to SE-188, "Exploded View".

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## **LIFTING MOTOR (FRONT)**

### < DTC/CIRCUIT DIAGNOSIS >

# LIFTING MOTOR (FRONT)

Description INFOID:000000006455142

- The lifting motor (front) is installed to the seat slide cushion frame.
- The lifting motor (front) is activated with the driver seat control unit.
- The lifter (front) is moved upward/downward by changing the rotation direction of lifting motor (front).

# Component Function Check

INFOID:0000000006455143

# 1. CHECK FUNCTION

- 1. Turn ignition switch ON.
- 2. Select "SEAT LIFTER FR" in "Active test" mode using CONSULT-III.
- 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 ADP-128, "Diagnosis Procedure".

# Diagnosis Procedure

INFOID:0000000006455144

# 1. CHECK LIFTING MOTOR (FRONT) POWER SUPPLY

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

	(+)  Lifting motor (front)  Connector Terminal		Con	dition	Voltage (V) (Approx.)	
Connector				,		
				OFF	0	
	37 B527 Ground	Ground	SEAT LIFTER FR	UP	0	
D527				DWN (down)	Battery voltage	
B321			45		SEAT LIFTER FR	OFF
	45				UP	Battery voltage
				DWN (down)	0	

#### Is the inspection result normal?

YES >> Replace lifting motor (front). (Built in seat slide cushion frame.) Refer to <u>SE-188. "Exploded View"</u>. NO >> GO TO 2.

# 2.check lifting motor (front) circuit

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

# **LIFTING MOTOR (FRONT)**

### < DTC/CIRCUIT DIAGNOSIS >

Driver sea	t control unit	Lifting motor (front)		Continuity
Connector	Terminal	Connector Terminal		Continuity
B504	37	B527	37	Existed
D304	45	D321	45	Existed

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

Driver seat control unit			Continuity
Connector	Terminal	Ground	Continuity
B504	37	Not exis	Not existed
B3U4	45		Not existed

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

## CHECK LIFTING MOTOR (FRONT)

Refer to ADP-129, "Component Inspection".

### Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-234, "Removal and Installation".

NO >> Replace lifting motor (front). (Built in seat slide cushion frame.) Refer to <u>SE-188. "Exploded View"</u>.

# Component Inspection

# 1. CHECK LIFTING MOTOR-1

Visually the lifting motor (front) for foreign object, and check that the lifting motor (front) is not broken.

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace seat cushion frame (lifting motor).

# 2. CHECK LIFTING MOTOR-2

- 1. Turn ignition switch OFF.
- 2. Disconnect lifting motor connector.
- 3. Supply lifting motor terminals with battery voltage and check operation.

Item	Terminal		Operation	
item	(+)	(-)	Operation	
lifting mater (front)	45	37	Up	
Lifting motor (front)	37	45	Down	

### Is the inspection result normal?

YES >> Lifting motor (front) is OK.

NO >> Replace lifting motor (front). (Built in seat slide cushion frame.) Refer to <u>SE-188, "Exploded View"</u>.

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Revision: 2011 December ADP-129 2011 G Coupe

## **LIFTING MOTOR (REAR)**

### < DTC/CIRCUIT DIAGNOSIS >

# LIFTING MOTOR (REAR)

Description INFOID:000000006455146

- The lifting motor (rear) is installed to the seat slide cushion frame.
- The lifting motor (rear) is activated with the driver seat control unit.
- The seat lifter (rear) is moved upward/downward by changing the rotation direction of lifting motor (rear).

## Component Function Check

INFOID:0000000006455147

## 1. CHECK FUNCTION

- 1. Turn ignition switch ON.
- 2. Select "SEAT LIFTER RR" in "Active test" mode using CONSULT-III.
- 3. 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-130, "Diagnosis Procedure"</u>.

# Diagnosis Procedure

INFOID:0000000006455148

# 1. CHECK LIFTING MOTOR (REAR) POWER SUPPLY

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

	(+) Lifting motor (rear)		(–) Condition		Voltage (V) (Approx.)
Connector	Connector Terminal				,
			SEAT LIFTER RR	OFF	0
	38	- Ground		UP	Battery voltage
B529				DWN (DOWN)	0
D329	B329			OFF	0
	39			UP	0
			DWN (DOWN)	Battery voltage	

#### Is the inspection result normal?

YES >> Replace lifting motor (rear). (Built in seat slide cushion frame.) Refer to <u>SE-188, "Exploded View"</u>. NO >> GO TO 2.

# 2.CHECK LIFTING MOTOR (REAR) CIRCUIT

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

# **LIFTING MOTOR (REAR)**

### < DTC/CIRCUIT DIAGNOSIS >

Driver seat control unit		Lifting motor (rear)		Continuity
Connector	Terminal	Connector	Terminal	Continuity
B504	38	B529	38	Existed
39	39	D029	39	Existed

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

Driver seat control unit			Continuity
Connector	Terminal	Ground	Continuity
B504	38	- Not exist	Not existed
	39		NOT EXISTED

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

## 3. CHECK LIFTING MOTOR (REAR)

Refer to ADP-131, "Component Inspection".

### Is the inspection result normal?

YES >> Replace driver seat control unit. Refer to ADP-234, "Removal and Installation".

NO >> Replace lifting motor (rear). (Built in seat slide cushion frame.) Refer to <u>SE-188. "Exploded View"</u>.

## Component Inspection

# 1. CHECK LIFTING MOTOR-1

Visually the lifting motor (rear) for foreign object, and check that the lifting motor (rear) is not broken.

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace seat cushion frame (lifting motor).

# 2. CHECK LIFTING MOTOR-2

- 1. Turn ignition switch OFF.
- 2. Disconnect lifting motor connector.
- Supply lifting motor terminals with battery voltage and check operation.

Item	Terminal		Operation	
item	(+)	(-)	Operation	
Lifting motor (rear)	38	39	Up	
	39	38	Down	

### Is the inspection result normal?

YES >> Lifting motor (rear) is OK.

NO >> Replace lifting motor (rear). (Built in seat slide cushion frame.) Refer to <u>SE-188, "Exploded View"</u>.

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Revision: 2011 December ADP-131 2011 G Coupe

## **TILT MOTOR**

Description INFOID:000000006455150

- The tilt motor is installed to the steering column assembly.
- The tilt motor is activated with the automatic drive positioner control unit.
- The steering column is tilted upward/downward by changing the rotation direction of tilt motor.

# Component Function Check

INFOID:0000000006455151

# 1. CHECK FUNCTION

- 1. Turn ignition switch ON.
- 2. Select "TILT MOTOR" in "Active test" mode using CONSULT-III.
- Check the tilt motor operation.

Tes	t item	Description	
	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-132, "Diagnosis Procedure"</u>.

## Diagnosis Procedure

INFOID:0000000006455152

# 1. CHECK TILT MOTOR POWER SUPPLY

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

(+) Tilt & telescopic motor		(–)	Cor	ndition	Voltage (V) (Approx.)
Connector	Terminal				
	3			OFF	0
				UP	0
M49 4	- Ground	TILT MOTOR	DWN (down)	Battery voltage	
			OFF	0	
			UP	Battery voltage	
			DWN (down)	0	

### Is the inspection result normal?

YES >> Replace tilt motor. (Built in steering column assembly.) Refer to <u>ST-22, "WITH ELECTRIC MOTOR: Exploded View".</u>

NO >> GO TO 2.

# 2.CHECK TILT MOTOR CIRCUIT

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

## **TILT MOTOR**

### < DTC/CIRCUIT DIAGNOSIS >

Automatic drive p	Automatic drive positioner control unit		Tilt & telescopic motor	
Connector	Terminal	Connector	Terminal	Continuity
M52	35	M49	4	Existed
IVIJZ	42	IVI45	3	LAISIEU

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

Automatic drive po	sitioner control unit		Continuity
Connector	Terminal	Ground	Continuity
M52	35		Not existed
	42		INOL EXISTED

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

## 3. CHECK TILT MOTOR

Refer to ADP-133, "Component Inspection".

### Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-235, "Removal and Installation".

NO >> Replace tilt motor. (Built in steering column assembly.) Refer to <u>ST-22, "WITH ELECTRIC MOTOR: Exploded View".</u>

# Component Inspection

INFOID:0000000006455153

# 1. CHECK SLIDING MOTOR

- 1. Turn ignition switch OFF.
- 2. Disconnect tilt motor connector.
- 3. Supply tilt motor terminals with battery voltage and check operation.

Terminal		Operation
(+)	(–)	Operation
4	3	Up
3	4	Down

### Is the inspection result normal?

YES >> Tilt motor is OK.

NO

>> Replace tilt motor. (Built in steering column assembly.) Refer to <u>ST-22, "WITH ELECTRIC MOTOR: Exploded View"</u>.

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Revision: 2011 December ADP-133 2011 G Coupe

### TELESCOPIC MOTOR

### < DTC/CIRCUIT DIAGNOSIS >

## **TELESCOPIC MOTOR**

**Description** 

- The telescopic motor is installed to the steering column assembly.
- The telescopic motor is activated with the automatic drive positioner control unit.
- Compresses the steering column by changing the rotation direction of telescopic motor.

# Component Function Check

INFOID:0000000006455155

## 1. CHECK FUNCTION

- Turn ignition switch ON.
- 2. Select "TELESCO MOTOR" in "Active test" mode using CONSULT-III.
- 3. Check the telescopic motor operation.

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

#### Is the operation of relevant parts normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to ADP-134, "Diagnosis Procedure".

## Diagnosis Procedure

INFOID:0000000006455156

# 1. CHECK TELESCOPIC MOTOR POWER SUPPLY

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

	(+) scopic motor Terminal	(-)	Condition		Voltage (V) (Approx.)
	1	Ground	TELESCOPIC MO- TOR	OFF FR (forward)	0
M49				RR (backward)	Battery voltage
W49				OFF	0
	2			FR (forward)	Battery voltage
				RR (backward)	0

### Is the inspection result normal?

YES >> Replace telescopic motor. (Built in steering column assembly.) Refer to <u>ST-22. "WITH ELECTRIC MOTOR</u>: Exploded View".

NO >> GO TO 2.

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

## **TELESCOPIC MOTOR**

## < DTC/CIRCUIT DIAGNOSIS >

Automatic drive p	ositioner control unit	Tilt & telescopic motor  Connector Terminal		Continuity
Connector	Terminal			Continuity
M52	36	M49	2	Existed
IVI52	44	10149	1	Existed

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

Automatic drive po	sitioner control unit		Continuity
Connector	Terminal	Ground	Continuity
M52	36		Not existed
IVIOZ	44		Not existed

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

## 3. CHECK SLIDING MOTOR

Refer to ADP-135, "Component Inspection".

### Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-235, "Removal and Installation".

NO >> Replace telescopic motor. (Built in steering column assembly.) Refer to <u>ST-22, "WITH ELECTRIC MOTOR: Exploded View".</u>

## Component Inspection

INFOID:0000000006455157

# 1. CHECK SLIDING MOTOR-2

- 1. Turn ignition switch OFF.
- 2. Disconnect telescopic motor connector.
- 3. Supply telescopic motor terminals with battery voltage and check operation.

Terminal		Operation
(+)	(–)	Орегация
2	1	Forward
1	2	Backward

## Is the inspection result normal?

NO

YES >> Telescopic motor is OK.

>> Replace telescopic motor. (Built in steering column assembly.) Refer to <a href="ST-22">ST-22</a>, "WITH ELECTRIC MOTOR: Exploded View".

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## DOOR MIRROR MOTOR

Description INFOID:000000006455158

It makes mirror face operate from side to side and up and down with the electric power that automatic drive positioner control unit supplies.

# Component Function Check

INFOID:0000000006455159

# 1. CHECK DOOR MIRROR MOTOR FUNCTION

- Turn ignition switch ON.
- Select "DOOR MIRROR MOTOR LH" and "DOOR MIRROR MOTOR RH" in "Active test" mode using CONSULT-III.
- 3. Check the door mirror motor operation.

Test item		Description	
	OFF		Stop
DOOR MIRROR MOTOR LH	L		Outward
	R	Door mirror face	Inward
	UP		Upward
	DWN		Downward

Test item		Description	
DOOR MIRROR MOTOR RH	OFF		Stop
	L	Door mirror face	Inward
	R		Outward
	UP		Upward
	DWN		Downward

## Is the operation of relevant parts normal?

YES >> INSPECTION END

NO >> Perform diagnosis procedure. Refer to <u>ADP-136, "Diagnosis Procedure"</u>.

# Diagnosis Procedure

INFOID:0000000006455160

# 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 connector and ground.

(+) Door mirror		(–) Co		dition	Voltage (V) (Approx.)
Connector Terminal					(
	5			UP	Battery voltage
	3	Ground	Door mirror remote control switch	Other than above	0
D3 (Driver side) D33 (Passenger	6			LEFT	Battery voltage
side)				Other than above	0
	7			DOWN / RIGHT	Battery voltage
	1			Other than above	0

### Is the inspection result normal?

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

## DOOR MIRROR MOTOR

### < DTC/CIRCUIT DIAGNOSIS >

# $\overline{2}$ . CHECK HARNESS CONTINUITY

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

[Door mirror driver side]

Automatic drive po	Automatic drive positioner control unit		r control unit Door mirror (driver side)	
Connector	Terminal	Connector Terminal		Continuity
	16		7	
M51	31	D3	5	Existed
	32		6	

[Door mirror passenger side]

Automatic drive p	ositioner control unit	Door mirror (passenger side)		O control tr
Connector	Terminal	Connector Terminal		Continuity
	14		5	
M51	15	D33	6	Existed
	30		7	

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

[Door mirror driver side]

Automatic drive positioner control unit			Continuity
Connector	Terminal		Continuity
	16	Ground	
M51	31		Not existed
	32		

[Door mirror passenger side]

[2 doi: nimitor paddonigor diad]					
Automatic drive po	sitioner control unit		Continuity		
Connector Terminal			Continuity		
	14	Ground			
M51	15		Not existed		
	30				

#### Is the inspection result normal?

YES >> Replace automatic drive positioner control unit. Refer to ADP-235, "Removal and Installation".

NO >> Repair or replace harness.

# 3. CHECK DOOR MIRROR MOTOR

Check door mirror motor.

Refer to ADP-137, "Component Inspection".

### Is the inspection result normal?

YES >> GO TO 4.

>> Replace door mirror. Refer to MIR-19, "DOOR MIRROR ASSEMBLY: Removal and Installation". NO

## 4.CHECK INTERMITTENT INCIDENT

Refer to GI-43, "Intermittent Incident".

#### >> INSPECTION END

## Component Inspection

# INFOID:0000000006455161

# 1. CHECK DOOR MIRROR MOTOR-I

Check that door mirror motor does not trap foreign objects and does not have any damage. Refer to MIR-18, "DOOR MIRROR ASSEMBLY: Exploded View".

**ADP-137** Revision: 2011 December 2011 G Coupe

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## **DOOR MIRROR MOTOR**

## < DTC/CIRCUIT DIAGNOSIS >

## Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace door mirror.Refer to MIR-19, "DOOR MIRROR ASSEMBLY: Removal and Installation".

# 2. CHECK DOOR MIRROR MOTOR-II

- Turn ignition switch OFF.
- 2. Disconnect door mirror connector.
- 3. Apply 12V to each power supply terminal of door mirror motor.

Connector	Te	rminal	Operational direction						
Connector	(+)	(-)							
	7	6	RIGHT						
D3 (Driver side)	6	7	LEFT						
D3 (Driver side) D33 (Passenger side)	5	7	UP						
	7	5	DOWN						

### Is the inspection result normal?

YES >> INSPECTION END

NO >> Replace door mirror. Refer to MIR-19, "DOOR MIRROR ASSEMBLY: Removal and Installation".

## **SEAT MEMORY INDICATOR**

### < DTC/CIRCUIT DIAGNOSIS >

## SEAT MEMORY INDICATOR

Description INFOID:0000000006455162

- Memory indicator is equipped on the seat memory switch installed to the driver side door trim. The operation signal is inputted to the automatic drive positioner control unit when the memory switch is operated.
- The status of automatic drive positioner system can be checked according to the illuminating/flashing status.

# Component Function Check

# 1. CHECK FUNCTION

- Turn ignition switch ON.
- Select "MEMORY SW INDCTR" in "Active test" mode using CONSULT-III.
- 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-139, "Diagnosis Procedure".

## Diagnosis Procedure

# 1. CHECK MEMORY INDICATOR POWER SUPPLY

Check voltage between seat memory switch harness connector and ground.

	+) nory switch	(–)	Voltage (V) (Approx.)					
Connector	Terminal		(11 - 7					
D5	5	Ground	Battery voltage					

#### Is the inspection result normal?

YES >> GO TO 2.

>> Check the following. NO

- 10A fuse [No.10 located in fuse block (J/B)].
- Harness for open or short between memory indicator and fuse.

## 2.CHECK MEMORY INDICATOR CIRCUIT

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

Automatic drive po	ositioner control unit	Seat men	Continuity					
Connector	Terminal	Connector	Terminal	Continuity				
 M51	12	D5	6	Existed				
I CIVI	13	D5	7	Existed				

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

Automatic drive po	sitioner control unit		Continuity				
Connector	Terminal	Ground	Continuity				
M51	12	Ground	Not existed				
IVIOT	13		Not existed				

**ADP-139** Revision: 2011 December 2011 G Coupe

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INFOID:0000000006455163

INFOID:0000000006455164

## **SEAT MEMORY INDICATOR**

## < DTC/CIRCUIT DIAGNOSIS >

## Is the inspection result normal?

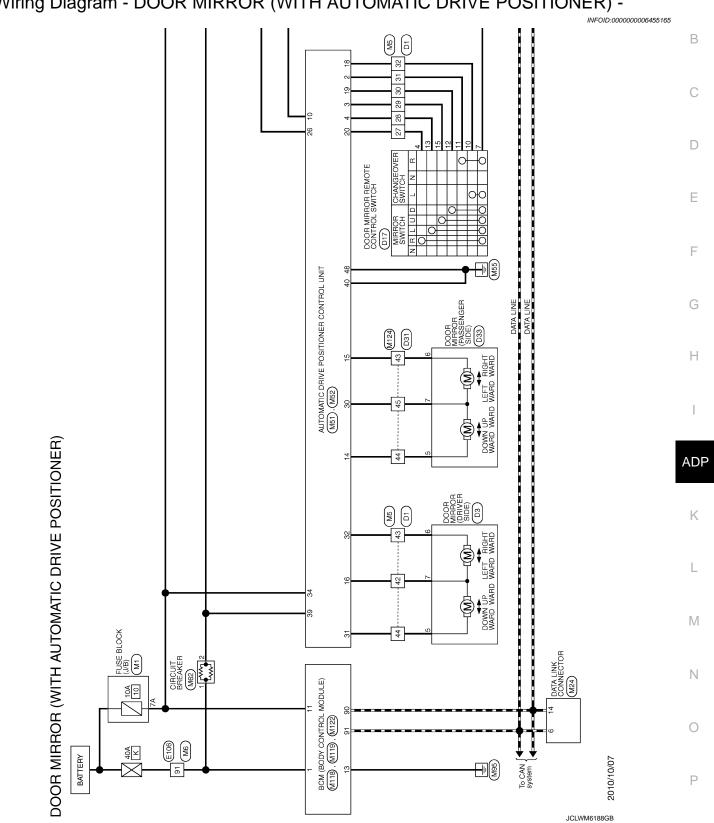
YES >> Replace seat memory switch. Refer to <u>ADP-236, "Removal and Installation"</u>.

NO >> Repair or replace harness.

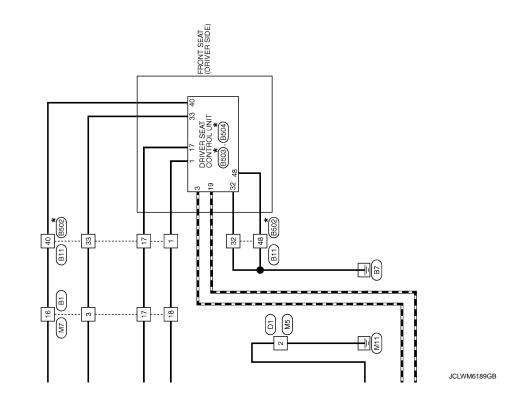
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# **DOOR MIRROR SYSTEM**

Wiring Diagram - DOOR MIRROR (WITH AUTOMATIC DRIVE POSITIONER) -



\*: This connector is not shown in "Harness Layout".



Revision: 2011 December ADP-142 2011 G Coupe

## **DOOR MIRROR SYSTEM**

	VARD)	WNWARD)	NNWARD)			G	(8)	ARD)	WARD)	WARD)	SW									Г	39	48	1		,	ation]		WARD)	RWARD)	DWARD)	ACKWARD)			KWARD)	(KWARD)	(OPWAND)														,	Δ
!	PULSE (RR LIFTING) SLIDING SW (BACKWARD) FELI INING SW (RACKWARD)	FRONT LIFTING SW (DOWNWARD)	R LIFTING SW (DO)	X	CAN-L D BANGE SW	PULSE (SLIDING	PULSE (FR LIFTIN	SLIDING SW (FORWARD)	ECLINING SW (FOR	AR LIFTING SW (UF	POWER WALK-IN	SENSOR GND	GND (SIGNAL)			THE COURTS OF TAILO OF USE	EAT CONTROL UNI	SS			36 12 37 38	44 45				Signal Name [Specification]	BAT (C/B)	SLIDING MOTOR (FORWARD)	RECLINING MOTOR (FORWARD)	LIFTING MOTOR (I	LIFTING MOTOR (B	BAT (FUSE)	FORWARD SW	SLIDING MOTOR (BACKWARD)	LINING MOTOR (BA	GND (DOWER)														ı	В
-	BR BR	_	1	Y/R	> =	1	Y/B	4	W/R	L	L	Ц	B/W		No. B504	Г		Connector Type NS16FW-CS		П	33 35 3	41			Color		Ц	$\dashv$	G/Y REC	+	R/B REAR	Н		+	A -	╀	┨													(	0
[	1 10	13	4 9	17	19	24	25	26	27	29	30	31	32		Connector No.		Connector	Connector	Œ	\ \ \			_		Terminal	No.	33	35	36	3/	38	40	41	42	44	£ 48						-									)
						[	40	2 60	]		Gootlan	GINGATION															INI					13 14 16	200000000000000000000000000000000000000			cification]			T SW	W.	SW	INIING)								ı	Ε
	1		WIRE TO WIRE	W-CS			17	66 32 48 21 33 67			Cinnel Manne Connelling	olgnar Name Lope	1	1	1	1	1	1	1 1	1	1	1	1			TOUR TATO	DRIVER SEAT CONTROL UNIT	W			<u> </u> 	8 9 10 11 12	200 200 200 200 200 200 200 200 200 200			Signal Name [Specification]	×	CAN-H	SLIDING LIMIT SW	BUCKLE SW	P RANGE SW	PULSE (RECL									F
- !	67 GR	tor No. B502	Connector Name WIRE 1	Connector Type NS16MW-CS		Ĺ	1931	5 6			al Color		M.	<u>.</u>	//R	>	LΛ	B/W	R 00	В	Υ	В	Μ		tor No. B503	Γ		Connector Type TH32FW				1 3 4 5			L	of Wire	W/T	R∕≺	0/B	_	5%	9/M								(	G
[	<sup>[2]</sup>	Connector No.	Connec	Connec	Œ			_	_	_	Terminal	ģ	<u> </u>		, <u>-</u>	61	21	32	33	48	09	99	67		Connector No.		Connec	Connec	<b>4</b>	F	4		_		Tormin	N S	<u> </u>	6	4	s.	∞ c	<sup>2</sup>								ŀ	-
	1 1 1	Ε.	1 1	İ		1	1	1	1 1	1				1		-		1			36	į.				1 3 19	48 32 66 5	20 20			Signal Name [Specification]	-	T	1	1 1		1	1	T											Δ.	
IONER)																				B11	WIRE TO WIRE		NS16FW-CS			40 17	33 21																							А	DP
RIVE POSITIONER)	- E - C - C	Н	62 R3	Н	<u> </u>	SB in	Н	4	- C	╀	ر 2	Н	<u>د</u> :	+	5 >	F	9 R	^		Connector No.	Connector Name		Connector Type		ا	<u>_</u> 집	9	<u>1</u>		_	No. of Wire	_	_	+	+	L >	╀	╀	0 BR	Н	9 9	-								ı	<
$\Box_{r}$	29 28	°	9 9	9	9 1		7	<u></u> ر	×	] <sup>∞</sup>	·	<u>"</u>	∞  <u>'</u>	··	91	l°	96	100	_	Conr	ق ا		Con	<b>₫</b>	E	•	П		_	ŀ	Z		<u>"</u>	<u>" </u>		2 2	1 6	\[ \text{\tin}\text{\tetx{\text{\tetx{\text{\text{\texi}\text{\text{\texi}\text{\text{\text{\text{\ti}\text{\text{\text{\text{\text{\texi}\tint{\text{\ti}\ti}\text{\texit{\texi}\text{\texi}\text{\texit{\texi}\text{\texi}\t	4		9 9	<u>"</u>									L
DOOR MIRROR (WITH AUTOMATIC		TM4		1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00 00 1- 00 12 22 33 13 13 13 14 14 13	0 2			Signal Name [Specification]	1	-				1 1	1	1			1	1	1	1		1	1		-	1	1 1	1	-	1	1	1 1		1		1												VI
RROR (WIT	BI WIRE TO WIRE	TH80FW-CS16-TM4		F [3]	20	8 4 8 8 5 8 8 5 8 8 5 8 8 6 8																																												1	V
DOOR MI	Connector No.	Connector Type	(F	H.S.					No. of Wire	_	2 G	3 SB	<b>4</b> →	9 3	- PB	┝	18 W	20 L	21 P	23 P	Н	+	+	2/ M	1	1	ΙI		35 BR	37 CHEID	T	Н	40 P	✝	42 SHIELD	2 4	₩.	T	┝	Н	55 Ee	+								(	Э
	<u> </u>		<u></u>					Ľ		•	•	1										1															•					_	JC	LWN	/161s	900	ЗB				
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Revision: 2011 December ADP-143 2011 G Coupe

## **DOOR MIRROR SYSTEM**

Ооличестог Name         D033           Ооличестог Name         D00R MIRROR (PASSENGER SIDE)           Ооличестог Туре         TH12MM-NH           H.S.         5 6 7 2 1 4           12 11 110 9 3 8	la lo	6 GR 7 G 8 B	9 P 10 BR 11 W	12 V -				
		No. of Wire	3 B 1 C	+H	ლ ≽ ი. :	N BR CR	45 G G C C C C C C C C C C C C C C C C C	
DRIVE POSITIONER)   51   P		Terminal   Color   Signal Name [Specification]   No.   of Wire   4   L	5         BR         - [With automatic drive positioner]           5         BG         - [Without automatic drive positioner]           6         GR         -	+++	10 BR - 11 W - 12 V -		Connector Type   TK ISFBR   TK ISFBR   TK ISFBR   TK ISFBR   The state of the sta	Terminal   Color   Signal Name [Specification]   No. of Wire   Signal Name [Specification]   4   8   8   -
DOOR MIRROR (WITH AUTOMATIC D Connector No. DI Connector Name WIRE TO WIRE Connector Type TH40FW-CS15    Connector Type   TH40FW-CS15   Connector Type   TH	inal .	3 SB	$+$ H $^{\circ}$	+++	GR BR SB	BG R V N N	28 Y	

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#### **DOOR MIRROR SYSTEM**

			АВ
	9 >		С
	25		D
	To 11   12   13   14   15   15   14   15   15   14   15   15		Е
	Nam-CS15  10   10   10   10   10   10   10   10		F
	Name		G
	Connector No.   Connector No		
			Н
	OCK (J/B)    2   1   2   1   3   4   4   4   4   4   4   4   4   4	_	I
E S	MI NSOBFW-MZ Signal Nam Signal Nam		ADP
DRIVE POSITIONER)	17   18   18   18   18   18   18   18	_	17
π Oq	100   100		K
) DRIV			L
TOMATIC	iffication]  Ining light]  Inning light]		
H	WRE CSIG-TM4  CSIG-TW4  Signal Name (Specification) Signal Name (Specification)  CWith daytime running light Without daytime numing light  CHAPACIME (Interning light  CHAPACIME (Interning light  CHAPACIME (Interning light  CANADA (Interning light		M
DOOR MIRROR (WITH ALITOMATIC	WIRE TO WIRE THBOFW-CSIG-TMA  THBOFW-CSIG-TMA  - [With daysim - [Without daysim - [W		Ν
R MIF	Connector No.  Connec		
00	Connector Name Connec		0
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Revision: 2011 December ADP-145 2011 G Coupe

#### **DOOR MIRROR SYSTEM**

Connector No. M24  Connector Name DATA LINK CONNECTOR  Connector Type BD16FW-P  M3  12345678	Terminal   Color   No. of Wire   Signal Name   Specification]   No. of Wire   Signal Name   Specification]   No. of Wire   No.	
P P P P P P P P P P P P P P P P P P P		++++++
22 24 24 25 26 27 27 28 31 31 31 31 31 31 31 31 31 31 31 31 31	38 38 38 39 44 44 44 44 44 44 44 44 44 44 44 44 44	90 95 96 100
DRIVE POSITIONER)    59	Second   Signal Name   Specification   Specification   Specification   Specification   Specifi	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
/E POS		+++++
RROR (WITH AUTOMATIC  MR TO WIRE THEOMW-CS16-TM4	Signal Name (Specification)	
DOOR MIII Connector No. Connector Name Connector Type	C   C   C   C   C   C   C   C   C   C	$H^{-1}HH$
DOO Connect Connect Connect	7 6 min al 8	44 46 47 48 49

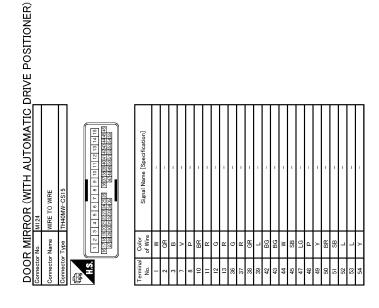
JCLWM6193GB

#### **DOOR MIRROR SYSTEM**

#### < DTC/CIRCUIT DIAGNOSIS >

Connector No.   M122	
Connector No.   Connector No.   Connector No.   Connector Name   Connect	
wodule)  1/1/2  1/2/2	
Signal Name (S)  Signal Name (S)  WER WINDOW POW SSEWDER DOOR THE LUI FE DOOR FUEL LUI FE DOOR FUEL LUI FE DOOR FUEL LUI THEN SIGNAL  THEN SIGNAL  THEN SIGNAL  THEN SIGNAL  THEN SIGNAL	
Connector No.   MITS    Connector No.   MITS    Connector Type   MITS    Connector Type   MITS    Connector Type   MITS    Connector No.   MITS    MITS    Connector No.   MITS    M	
	I
MIST	)P
Connector No.   Miss   Connector No.   Miss   Connector No.   Miss   Connector Type   NSI 6FW-CS   Miss   Connector Type   Connector Type   Miss   Connector No.   Miss   Connector No.   Miss   Connector No.   Miss   Connector No.   Miss   Connector Type	r
Signal Name [Speerfication]  TILT SW (UPWARD)  MIRROR SW (LETYWARD)  MIRROR SW (RICH HORIZONTAL)  MIRROR WOTOR (LH HORIZONTAL)  MIRROR MOTOR (LH HORIZONTAL)	1
MIRROR (WITA)	
Connector Name	)
JCLWM6194GB	)

Revision: 2011 December ADP-147 2011 G Coupe



JCLWM6195GB

< ECU DIAGNOSIS INFORMATION >

# **ECU DIAGNOSIS INFORMATION**

## **BCM (BODY CONTROL MODULE)**

Reference Value INFOID:0000000006933095

#### VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condition	Value/Status	
FR WIPER HI	Other than front wiper switch HI	Off	_
TIX WIF LIX TII	Front wiper switch HI	On	D
FR WIPER LOW	Other than front wiper switch LO	Off	
TR WIFER LOW	Front wiper switch LO	On	Е
FR WASHER SW	Front washer switch OFF	Off	
TIN WASHEN SW	Front washer switch ON	On	
FR WIPER INT	Other than front wiper switch INT/AUTO	Off	F
TIX WIII LIX IIVI	Front wiper switch INT/AUTO	On	
FR WIPER STOP	Front wiper is not in STOP position	Off	G
TIC WII EICOTOI	Front wiper is in STOP position	On	
INT VOLUME	Wiper volume dial is in a dial position 1 - 7	Wiper volume dial position	Н
TURN SIGNAL R	Other than turn signal switch RH	Off	
TOKIN SIGNAL K	Turn signal switch RH	On	
TURN SIGNAL L	Other than turn signal switch LH	Off	
TORN SIGNAL L	Turn signal switch LH	On	
TAIL LAMP SW	Other than lighting switch 1ST and 2ND	Off	AD
TAIL LAIVIP 3VV	Lighting switch 1ST or 2ND	On	710
HI BEAM SW	Other than lighting switch HI	Off	
HI BEAIN SW	Lighting switch HI	On	K
HEAD LAMP SW 1	Other than lighting switch 2ND	Off	
HEAD LAIVIF SW 1	Lighting switch 2ND	On	
HEAD LAMP SW 2	Other than lighting switch 2ND	Off	
HEAD LAIVIF SW 2	Lighting switch 2ND	On	
PASSING SW	Other than lighting switch PASS	Off	M
PASSING SW	Lighting switch PASS	On	
AUTO LIGHT SW	Other than lighting switch AUTO	Off	-
AUTO LIGHT SW	Lighting switch AUTO	On	Ν
FR FOG SW	Front fog lamp switch OFF	Off	
FR FOG SW	Front fog lamp switch ON	On	0
RR FOG SW	NOTE: The item is indicated, but not monitored.	Off	
DOOR SW-DR	Driver door closed	Off	Р
DOOK SW-DK	Driver door opened	On	
DOOD SW AS	Passenger door closed	Off	
DOOR SW-AS	Passenger door opened	On	
DOOR SW-RR	NOTE: The item is indicated, but not monitored.	Off	

**ADP-149** Revision: 2011 December 2011 G Coupe Α

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Monitor Item	Condition	Value/Status
DOOR SW-RL	NOTE: The item is indicated, but not monitored.	Off
DOOR SW-BK	NOTE: The item is indicated, but not monitored.	Off
CDL LOCK SW	Other than power door lock switch LOCK	Off
CDL LOCK SW	Power door lock switch LOCK	On
CDL UNLOCK SW	Other than power door lock switch UNLOCK	Off
CDL UNLOCK SW	Power door lock switch UNLOCK	On
KEY CYL LK-SW	Other than driver door key cylinder LOCK position	Off
KET OTE EK-OW	Driver door key cylinder LOCK position	On
KEY CYL UN-SW	Other than driver door key cylinder UNLOCK position	Off
RETUTE OIN-SW	Driver door key cylinder UNLOCK position	On
KEY CYL SW-TR	NOTE: The item is indicated, but not monitored.	Off
HAZARD SW	Hazard switch is OFF	Off
TIAZAND SW	Hazard switch is ON	On
REAR DEF SW	NOTE: The item is indicated, but not monitored.	Off
H/L WASH SW	NOTE: The item is indicated, but not monitored.	Off
TR CANCEL SW	Trunk lid opener cancel switch OFF	Off
TR CANCEL 3W	Trunk lid opener cancel switch ON	On
TR/BD OPEN SW	Trunk lid opener switch OFF	Off
TROBE OF ENGIN	While the trunk lid opener switch is turned ON	On
TRNK/HAT MNTR	Trunk lid closed	Off
	Trunk lid opened	On
RKE-LOCK	LOCK button of the Intelligent Key is not pressed	Off
	LOCK button of the Intelligent Key is pressed	On
RKE-UNLOCK	UNLOCK button of the Intelligent Key is not pressed	Off
	UNLOCK button of the Intelligent Key is pressed	On
RKE-TR/BD	TRUNK OPEN button of the Intelligent Key is not pressed	Off
	TRUNK OPEN button of the Intelligent Key is pressed	On
RKE-PANIC	PANIC button of the Intelligent Key is not pressed	Off
	PANIC button of the Intelligent Key is pressed	On
RKE-P/W OPEN	UNLOCK button of the Intelligent Key is not pressed	Off
	UNLOCK button of the Intelligent Key is pressed and held	On
RKE-MODE CHG	LOCK/UNLOCK button of the Intelligent Key is not pressed and held simultaneously	Off
	LOCK/UNLOCK button of the Intelligent Key is pressed and held simultaneously	On
OPTICAL SENSOR	Bright outside of the vehicle	Close to 5 V
	Dark outside of the vehicle	Close to 0 V
REQ SW -DR	Driver door request switch is not pressed	Off
	Driver door request switch is pressed	On
REQ SW -AS	Passenger door request switch is not pressed	Off
	Passenger door request switch is pressed	On
REQ SW -RR	NOTE: The item is indicated, but not monitored.	Off

### < ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status	
REQ SW -RL	NOTE: The item is indicated, but not monitored.	Off	
DEO SW. BD/TB	Trunk lid opener request switch is not pressed	Off	
REQ SW -BD/TR	Trunk lid opener request switch is pressed	On	
211011 0147	Push-button ignition switch (push switch) is not pressed	Off	
PUSH SW	Push-button ignition switch (push switch) is pressed	On	<del></del>
ON DIVO 5/D	Ignition switch in OFF or ACC position	Off	
GN RLY2 -F/B	Ignition switch in ON position	On	_
ACC RLY -F/B	NOTE: The item is indicated, but not monitored.	Off	
	The clutch pedal is not depressed	Off	_
CLUCH SW	The clutch pedal is depressed	On	_
	The brake pedal is depressed when No. 7 fuse is blown	Off	_
BRAKE SW 1	The brake pedal is not depressed when No. 7 fuse is blown, or No. 7 fuse is normal	On	<del></del>
ADAKE OM O	The brake pedal is not depressed	Off	
RAKE SW 2	On		
NETE/CANOL OVA	Selector lever in P position (Except M/T models)     The clutch pedal is depressed (M/T models)	Off	
DETE/CANCL SW	Selector lever in any position other than P (Except M/T models)     The clutch pedal is not depressed (M/T models)	On	
NET DATALONA	Selector lever in any position other than P and N	Off	
SFT PN/N SW	Selector lever in P or N position	On	
S/L -LOCK	Steering is unlocked	Off	_
NOTE: For models without teering lock unit, this tem is not monitored.	Steering is locked	On	
S/L -UNLOCK	Steering is locked	Off	
NOTE: For models without steering lock unit, this tem is not monitored.	Steering is unlocked	On	
S/L RELAY-F/B	Ignition switch in OFF or ACC position	Off	
NOTE: For models without steering lock unit, this tem is not monitored.	Ignition switch in ON position	On	
INILIZ OENL DD	Driver door is unlocked	Off	_
INLK SEN -DR	Driver door is locked	On	
N1011 0W 1221	Push-button ignition switch (push-switch) is not pressed	Off	
PUSH SW -IPDM	Push-button ignition switch (push-switch) is pressed	On	_
2N DIXA = 12	Ignition switch in OFF or ACC position	Off	
GN RLY1 -F/B	Ignition switch in ON position	On	
	Selector lever in any position other than P	Off	
DETE SW -IPDM	Selector lever in P position	On	
NET DI 1753	Selector lever in any position other than P and N (Except M/T models)     The clutch pedal is not depressed (M/T models)	Off	_
SFT PN -IPDM	Selector lever in P or N position     The clutch pedal is depressed	On	_

Revision: 2011 December ADP-151 2011 G Coupe

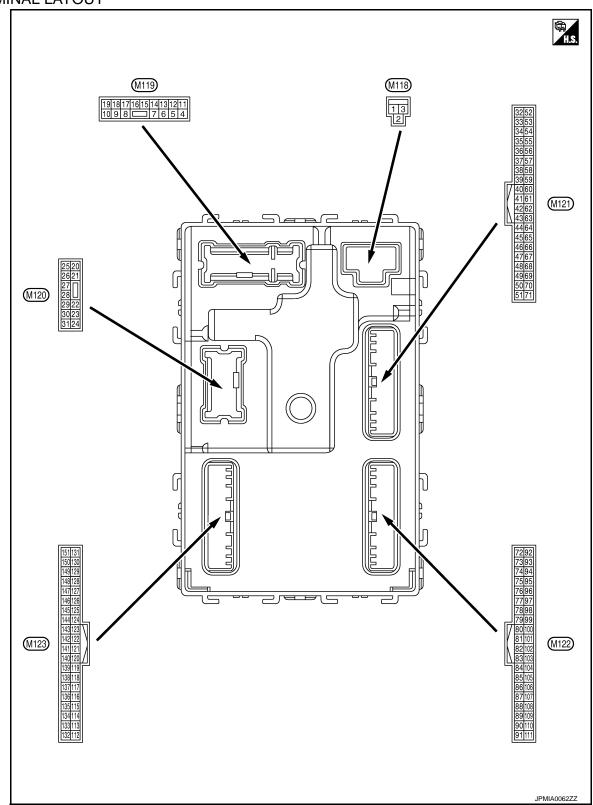
Monitor Item	Condition	Value/Status
SFT P -MET	Selector lever in any position other than P	Off
SFIF-WEI	Selector lever in P position	On
SFT N -MET	Selector lever in any position other than N	Off
SELIN-MET	Selector lever in N position	On
	Engine stopped	Stop
ENGINE STATE	While the engine stalls	Stall
LINGINE STATE	At engine cranking	Crank
	Engine running	Run
S/L LOCK-IPDM	Steering is unlocked	Off
NOTE: For models without steering lock unit, this item is not monitored.	Steering is locked	On
S/L UNLK-IPDM	Steering is locked	Off
NOTE: For models without steering lock unit, this item is not monitored.	Steering is unlocked	On
S/L RELAY-REQ NOTE:	Steering lock system is not the LOCK condition and the changing condition from LOCK to UNLOCK	Off
For models without steering lock unit, this item is not monitored.	Steering lock system are not the LOCK condition or the changing condition from LOCK to UNLOCK	On
VEH SPEED 1	While driving	Equivalent to speed- ometer reading
VEH SPEED 2	While driving	Equivalent to speed- ometer reading
	Driver door is locked	LOCK
DOOR STAT-DR	Wait with selective UNLOCK operation (60 seconds)	READY
	Driver door is unlocked	UNLOCK
	Passenger door is locked	LOCK
DOOR STAT-AS	Wait with selective UNLOCK operation (60 seconds)	READY
	Passenger door is unlocked	UNLOCK
ID OK FLAG	Driver side door is open after ignition switch is turned OFF (Selector lever is in the P position except for M/T models)	Reset
	Ignition switch is ON	Set
DDMT ENG OTDT	The engine start is prohibited	Reset
PRMT ENG STRT	The engine start is permitted	Set
PRMT RKE STRT	NOTE: The item is indicated, but not monitored.	Reset
VEV 014 01 0T	The Intelligent Key is not inserted into key slot	Off
KEY SW -SLOT	The Intelligent Key is inserted into key slot	On
RKE OPE COUN1	During the operation of the Intelligent Key	Operation frequency of the Intelligent Key
RKE OPE COUN2	NOTE: The item is indicated, but not monitored.	_
CONEDMID ALL	The key ID that the key slot receives is not recognized by any key ID registered to BCM.	Yet
CONFRM ID ALL	The key ID that the key slot receives is recognized by any key ID registered to BCM.	Done

# < ECU DIAGNOSIS INFORMATION >

Monitor Item	Condition	Value/Status
CONFIRM ID4	The key ID that the key slot receives is not recognized by the fourth key ID registered to BCM.	Yet
CONFIRM ID4	The key ID that the key slot receives is recognized by the fourth key ID registered to BCM.	Done
CONFIRM ID3	The key ID that the key slot receives is not recognized by the third key ID registered to BCM.	Yet
CONFIRM IDS	The key ID that the key slot receives is recognized by the third key ID registered to BCM.	Done
CONFIRM ID2	The key ID that the key slot receives is not recognized by the second key ID registered to BCM.	Yet
JONI IKW IDZ	The key ID that the key slot receives is recognized by the second key ID registered to BCM.	Done
CONFIRM ID1	The key ID that the key slot receives is not recognized by the first key ID registered to BCM.	Yet
JOIN IKW ID I	The key ID that the key slot receives is recognized by the first key ID registered to BCM.	Done
ΓP 4	The ID of fourth Intelligent Key is not registered to BCM	Yet
1 7	The ID of fourth Intelligent Key is registered to BCM	Done
ъ Э	The ID of third Intelligent Key is not registered to BCM	Yet
P 3	The ID of third Intelligent Key is registered to BCM	Done
P 2	The ID of second Intelligent Key is not registered to BCM	Yet
PZ	The ID of second Intelligent Key is registered to BCM	Done
P 1	The ID of first Intelligent Key is not registered to BCM	Yet
r i	The ID of first Intelligent Key is registered to BCM	Done
AIR PRESS FL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front LH tire
AIR PRESS FR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of front RH tire
AIR PRESS RR	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear RH tire
AIR PRESS RL	Ignition switch ON (Only when the signal from the transmitter is received)	Air pressure of rear LH tire
D REGST FL1	ID of front LH tire transmitter is registered	Done
3 NEGOT 1 E1	ID of front LH tire transmitter is not registered	Yet
D REGST FR1	ID of front RH tire transmitter is registered	Done
	ID of front RH tire transmitter is not registered	Yet
D REGST RR1	ID of rear RH tire transmitter is registered	Done
	ID of rear RH tire transmitter is not registered	Yet
D REGST RL1	ID of rear LH tire transmitter is registered	Done
	ID of rear LH tire transmitter is not registered	Yet
VARNING LAMP	Tire pressure indicator OFF	Off
VARINING LAWIP	Tire pressure indicator ON	On
01177ED	Tire pressure warning alarm is not sounding	Off
BUZZER	Tire pressure warning alarm is sounding	On

**ADP-153** 2011 G Coupe Revision: 2011 December

### TERMINAL LAYOUT



PHYSICAL VALUES

	nal No. color)	Description	I		0 100	Value	Α
+	–	Signal name	Input/ Output		Condition	(Approx.)	
1 (W)	Ground	Battery power supply	Input	Ignition switch OFF		Battery voltage	В
2 (Y)	Ground	P/W power supply (BAT)	Output	Ignition switch (	OFF	12 V	С
3 (BG)	Ground	P/W power supply (RAP)	Output	Ignition switch (	ON	12 V	
					mp battery saver is activated. or room lamp power supply)	0 V	D
4 (LG)	Ground	Interior room lamp power supply	Output	vated.	mp battery saver is not acti- erior room lamp power sup-	12 V	Е
5	Ground	Passenger door UN-	Output	Passenger	UNLOCK (Actuator is activated)	12 V	F
(P)	Ground	LOCK	Output	door	Other than UNLOCK (Actuator is not activated)	0 V	
7	Ground	Step lamp	Output	Step lamp	ON	0 V	G
(SB)	Ground	oteh iamh		Step lamp	OFF	12 V	
8	Ground	All doors, fuel lid LOCK	Output	All doors, fuel	LOCK (Actuator is activated)	12 V	Н
(V)	Ground		Output	lid	Other than LOCK (Actuator is not activated)	0 V	
9	Ground	Driver door, fuel lid UNLOCK	Output	Driver door,	UNLOCK (Actuator is activated)	12 V	
(G)				fuel lid	Other than UNLOCK (Actuator is not activated)	0 V	AD
11 (R)	Ground	Battery power supply	Input	Ignition switch (	OFF	Battery voltage	1/
13 (B)	Ground	Ground	_	Ignition switch (	ON	0 V	K
					OFF	0 V	ı
14 (W)	Ground	Push-button ignition switch illumination ground	Output	Tail lamp	ON	NOTE: When the illumination brightening/dimming level is in the neutral position.  (V)  10  0  2 ms  JSNIA0010GB	N N
15	Ground	ACC indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage	
(BG)		7.00 indicator famp	Calput		ACC	0 V	Р

	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
17 (W)	Ground	Turn signal RH (Front)	Output	Ignition switch ON	Turn signal switch OFF  Turn signal switch RH	0 V  (V) 15 10 5 1
					Turn signal switch OFF	0 V
18 (BG)	Ground	Turn signal LH (Front)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
19	0	Room lamp timer	0	Interior room	OFF	12 V
(V)	Ground	control	Output	lamp	ON	0 V
					Turn signal switch OFF	0 V
20 (V)	Ground	Turn signal RH (Rear)	Output	Ignition switch ON	Turn signal switch RH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
23	0	Touchilden	Outrast	To only list	OPEN (Trunk lid opener actuator is activated)	12 V
(LG)	Ground	Trunk lid open	Output	Trunk lid	Other than OPEN (Trunk lid opener actuator is not activated)	0 V
					Turn signal switch OFF	0 V
25 (Y)	Ground	Turn signal LH (Rear)	Output	Ignition switch ON	Turn signal switch LH	(V) 15 10 5 0 1 s PKID0926E 6.5 V
30			<b>0</b>	Trunk room	ON	0 V
(P)	Ground	Trunk room lamp	Output	lamp	OFF	12 V

	inal No. e color)	Description		Condition		Value	А
+	-	Signal name	Input/ Output			(Approx.)	/ (
34	Crown	Trunk room antenna	Outrast	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 1 s JMKIA0062GB	B C
(SB)	Ground	(-)	Output	ÖFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB	E F
35	Ground Trunk room anten (+)	Trunk room antenna (+)	Trunk room antenna (+)  Output  Ignition switch OFF  When Intelligent Key is not in the passenger compartment  (V)  15 10 50 11 1 s	enna Ignition sw	the passenger compart ment	15 10 5 0	Н
(V)				·	OFF	in the passenger compart-	15 10 5 0
38		Rear bumper anten-		When the trunk	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	M
(B)	Ground	na (–)	Output	quest switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB	O P

	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
39		Rear bumper anten-		When the trunk	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB
(W)	Ground	na (+)	Output	quest switch is operated with ignition switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB
47	Ground	Ignition relay (IPDM	Output	Ignition switch	OFF or ACC	12 V
(Y)	Ground	E/R) control	Output	ignition switch	ON	0 V
50 (BG)	Ground	Trunk room lamp switch	Input	Trunk room lamp switch	OFF (Trunk lid is closed)	(V) 15 10 5 0 10 ms JPMIA0011GB
					ON (Trunk lid is opened)	0 V
		Starter relay control	Output	Ignition switch ON (A/T mod- els)	When selector lever is in P or N position	12 V
52	Ground				When selector lever is not in P or N position	0 V
(R)	Ground			Ignition switch ON (M/T mod-	When the clutch pedal is depressed	Battery voltage
				els)	When the clutch pedal is not depressed	0 V
60* <sup>3</sup>	Ground	Push-button ignition	Input	Push-button ig- nition switch	Pressed	0 V
(BR)	Giodila	switch (Push switch)	mput	(Push switch)	Not pressed	Battery voltage
					ON (Pressed)	0 V
61 (SB)	Ground	Trunk lid opener request switch	Input	Trunk lid open- er request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GB 1.0 V
		Intelligent Key warn-		Intelligent Key	Sounding	0 V
64 (G)	Ground	ing buzzer (Engine room)	Output	warning buzzer (Engine room)	Not sounding	12 V

### < ECU DIAGNOSIS INFORMATION >

	nal No.	Description				Value	
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)	
					Pressed	0 V	
67 (GR)	Ground	Trunk lid opener switch	Input	Trunk lid open- er switch	Not pressed	(V) 15 10 5 0 JPMIA0011GB 11.8 V	
72	Ground	Room antenna 2 (–)	Output	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 1 s JMKIA0062GB	
(R)	Ground	(Center console)	Output	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	
73	Ground	Room antenna 2 (+)	Output	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 1 s JMKIA0062GB	
(G)	Sibulid	(Center console)	Сара	OFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 1 s JMKIA0063GB	

Revision: 2011 December ADP-159 2011 G Coupe

	nal No.	Description				Value
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)
74	Ground Passenger door antenna (–)  Passenger door antenna (–)  Output  When the passenger door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB			
			Output	operated with ignition switch	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB
75	75 Passangar da	Passenger door an-		When the passenger door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area	(V) 15 10 5 11 1 s  JMKIA0062GB
(BR)	Ground	tenna (+)			When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB
76	Ground	Driver door antenna		When the driver door request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 JMKIA0062GB
(V)	Ground	(-)	Output	switch is oper- ated with igni- tion switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 JMKIA0063GB

	nal No. color)	Description			Condition	Value	А
+	-	Signal name	Input/ Output		Condition	(Approx.)	, ,
77	Ground	Driver door antenna	Outout	When the driver door request	When Intelligent Key is in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0062GB	B C
(LG)	Ground	(+)	Output	switch is oper- ated with igni- tion switch OFF	When Intelligent Key is not in the antenna detection area	(V) 15 10 5 0 1 s JMKIA0063GB	E F G
78	Ground	Room antenna 1 (–)	Output	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 JMKIA0062GB	Н
(Y)		(Instrument panel)	Сара	ÖFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 11 1 s  JMKIA0063GB	ADP K
79	Crowd	Room antenna 1 (+)	Outrast	Ignition switch	When Intelligent Key is in the passenger compart- ment	(V) 15 10 5 0 JMKIA0062GB	M
(BR)	Ground	(Instrument panel)	Output	ÖFF	When Intelligent Key is not in the passenger compartment	(V) 15 10 5 0 JMKIA0063GB	O P

	nal No. color)	Description			Condition	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
80 (GR)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
81 (W)	Ground	NATS antenna amp.	Input/ Output	During waiting	Ignition switch is pressed while inserting the Intelligent Key into the key slot.	Just after pressing ignition switch. Pointer of tester should move.
82 (SB)	Ground	Ignition relay [Fuse block (J/B)] control	Output	Ignition switch	OFF or ACC	0 V 12 V
83	Remote keyless entry	Input/	During waiting		(V) 15 10 5 0 1 ms JMKIA0064GB	
(Y)	Ground	receiver communica- tion	Output	When operating gent Key	either button on the Intelli-	(V) 15 10 5 0 1 ms JMKIA0065GB
		Combination switch INPUT 5	Input	Combination switch	All switches OFF (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GB
87 (Y)	Ground				Front fog lamp switch ON (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0037GB
					Any of the conditions below with all switches OFF  Wiper volume dial 1  Wiper volume dial 2  Wiper volume dial 6  Wiper volume dial 7	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3 V

	nal No.	Description				Value	۸
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)	Α
					All switches OFF (Wiper volume dial 4)	(V) 15 10 2 ms JPMIA0041GB 1.4 V	B C D
88	88 (BG) Ground INPUT 3	Combination switch	Input	Combination switch	Lighting switch HI (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V	E F
(BG)		INPUT 3			Lighting switch 2ND (Wiper volume dial 4)	(V) 15 10 2 ms JPMIA0037GB 1.3 V	G H
					Any of the conditions below with all switches OFF  Wiper volume dial 1  Wiper volume dial 2  Wiper volume dial 3	(V) 15 10 2 ms JPMIA0040GB 1.3 V	ADF K
89* <sup>4</sup> (BR)	Ground	Push-button ignition switch (Push switch)	Input	Push-button ig- nition switch (push switch)	Pressed  Not pressed	0 V Battery voltage	M
90 (P)	Ground	CAN-L	Input/ Output		_	_	
91 (L)	Ground	CAN-H	Input/ Output		_	_	Ν
					OFF	0 V	
92 (LG)	Ground	Key slot illumination	Output	Key slot illumi- nation	Blinking	(V) 15 10 5 0 1 s JPMIA0015GB	P
					ON	6.5 V 12 V	

	nal No.	Description				Value
+ (Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
93 (GR)	Ground	ON indicator lamp	Output	Ignition switch	OFF (LOCK indicator is not illuminated)	Battery voltage
(011)					ON	0 V
95	Ground	ACC relay control	Output	Ignition switch	OFF	0 V
(BG)	Ground	Acc relay control	Output	ignition switch	ACC or ON	12 V
96 (GR)	Ground	A/T shift selector (Detention switch) power supply	Output		_	12 V
97* <sup>4</sup>	Ground	Steering lock condi-	Input	Steering lock	LOCK status	0 V
(L)	Ground	tion No. 1	Πραι	Steering lock	UNLOCK status	12 V
98* <sup>4</sup>	Cround	Steering lock condi-	Innut	a	LOCK status	12 V
(P)	Ground	tion No. 2	Input	Steering lock	UNLOCK status	0 V
		Selector lever P posi-		Selector lever	P position	0 V
		tion switch		Selector lever	Any position other than P	12 V
99 (R)* <sup>1</sup> Ground (BR)* <sup>2</sup>	ASCD clutch switch (M/T models without		ASCD clutch	OFF (Clutch pedal is depressed)	0 V	
	Ground	`	Input	switch	ON (Clutch pedal is not depressed)	12 V
		ICC clutch switch (M/		ICC clutch	OFF (Clutch pedal is depressed)	0 V
		T models with ICC)		switch	ON (Clutch pedal is not depressed)	12 V
					ON (Pressed)	0 V
100 (Y)	Ground	Passenger door request switch	Input	Passenger door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016G 1.0 V
					ON (Pressed)	0 V
101 (P)	Ground	Driver door request switch	Input	Driver door request switch	OFF (Not pressed)	(V) 15 10 5 0 10 ms JPMIA0016GI
102	0	Blower fan motor re-	O: -t '	Impition of 101	OFF or ACC	0 V
(BG)	Ground	lay control	Output	Ignition switch	ON	12 V
103 (P)	Ground	Remote keyless entry receiver power supply	Output	Ignition switch (	DFF	12 V
106*4	C=====================================	Steering lock unit	O: 14m : 14	Ignition assistati	OFF or ACC	12 V
(SB)	Ground	power supply	Output	Ignition switch	ON	0 V

### < ECU DIAGNOSIS INFORMATION >

Termina		Description				Value
(Wire o	color) –	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB 1.4 V
					Turn signal switch LH	(V) 15 10 5 0 2 ms JPMIA0037GB 1.3 V
107 (LG)	Ground	Combination switch INPUT 1	Input	Combination switch (Wiper volume dial 4)	Turn signal switch RH	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V
					Front wiper switch LO	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V
					Front washer switch ON	(V) 15 10 5 0 2 ms JPMIA0039GB

Revision: 2011 December ADP-165 2011 G Coupe

	nal No.	Description				Value
(Wire	color)	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0041GE
108	Ground	Combination switch	Input	Combination	Lighting switch AUTO (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0038GE 1.3 V
(R)	Glound	INPUT 4		switch	Lighting switch 1ST (Wiper volume dial 4)	(V) 15 10 5 0 2 ms JPMIA0036GI
					Any of the conditions below with all switches OFF  Wiper volume dial 1  Wiper volume dial 5  Wiper volume dial 6	(V) 15 10 5 0 2 ms JPMIA0039GI

	nal No.	Description	1			Value	/
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)	-
					All switches OFF	(V) 15 10 5 0 2 ms JPMIA0041GB	()
					Lighting switch PASS	(V) 15 10 5 0 2 ms JPMIA0037GB	[
109 (W)	Ground	Combination switch INPUT 2	Input	Combination switch (Wiper volume dial 4)	Lighting switch 2ND	(V) 15 10 5 0 2 ms JPMIA0036GB 1.3 V	(
				Front wiper switch INT/ AUTO	(V) 15 10 5 0 2 ms JPMIA0038GB 1.3 V	A	
					Front wiper switch HI	(V) 15 10 5 0 2 ms JPMIA0040GB 1.3 V	
		1			ON	0 V	(
110 (G)	Ground	Hazard switch	Input	Hazard switch	OFF	(V) 15 10 5 0 10 ms JPMIA0012GB	

	nal No.	Description				Value
+ (vvire	color)	Signal name	Input/ Output		Condition	(Approx.)
					LOCK status	12 V
111* <sup>4</sup> (Y)	Ground	Steering lock unit communication	Input/ Output	Steering lock	LOCK or UNLOCK	15 10 5 0 50 ms JMKIA0066GB
					For 15 seconds after UN- LOCK	12 V
					15 seconds or later after UNLOCK	0 V
112 (R)	Ground	Rain sensor serial link	Input/ Output	Ignition switch ON		(V) 15 10 5 0 JPMIA0156GB 8.7 V
113		Optical sensor	Input	Ignition switch	When bright outside of the vehicle	Close to 5 V
(BG)				ŎN	When dark outside of the vehicle	Close to 0 V
114	Ground	Clutch interlock switch	Input	Clutchinterlock	OFF (Clutch pedal is not depressed)	0 V
(R)	Ground		Input	switch	ON (Clutch pedal is depressed)	Battery voltage
116 (SB)	Ground	Stop lamp switch 1	Input			Battery voltage
		Stop lamp switch 2		Stop lamp	OFF (Brake pedal is not depressed)	0 V
118	Ground	(Without ICC)	Input	switch	ON (Brake pedal is depressed)	Battery voltage
(BR)	Ground	Stop lamp switch 2	mpat		h OFF (Brake pedal is not ICC brake hold relay OFF	0 V
		(With ICC)			h ON (Brake pedal is de- brake hold relay ON	Battery voltage
119 (SB)	Ground	Driver side door lock assembly (Unlock sensor)	Input	Driver door	LOCK status (Unlock sensor switch OFF)	(V) 15 10 5 0 10 ms JPMIA0012GB 1.1 V
					UNLOCK status (Unlock switch sensor ON)	0 V

Α

В

С

D

Е

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L

M

Ν

0

	nal No. color)	Description			O Pri	Value
+		Signal name	Input/ Output		Condition	(Approx.)
121	Ground	Key slot switch	Input	slot	gent Key is inserted into key	12 V
(SB)		·		When the Intellig	gent Key is not inserted into	0 V
123 (V)	Ground	IGN feedback	Input	Ignition switch	OFF or ACC	0 V
124 (R)	Ground	Passenger door switch	Input	Passenger door switch	OFF (Door close)	Battery voltage  (V) 15 10 5 0 JPMIA0011GB
					ON (Door open)	0 V
129 (BG)	Ground	Trunk lid opener can- cel switch	Input	Trunk lid opener cancel switch	CANCEL	(V) 15 10 5 0 10 ms JPMIA0012GB
					ON	0 V
132 (V)	Ground	Power window switch communication	Input/ Output	Ignition switch C	DN	(V) 15 10 5 0 10 ms JPMIA0013GB
				Ignition switch C	OFF or ACC	12 V
					ON (Tail lamps OFF)	9.5 V
133 (L)	Ground	Push-button ignition switch illumination	Output	Push-button ig- nition switch il- lumination	ON (Tail lamps ON)	NOTE: The pulse width of this wave is varied by the illumination brightening/dimming level.  (V) 15 10 5 0  JPMIA0159GB
46.4				1.001(: " :	OFF OFF	0 V  Battery voltage
134 (LG)	Ground	LOCK indicator lamp	Output	LOCK indicator lamp	ON	0 V
137 (BG)	Ground	Receiver and sensor ground	Input	Ignition switch C	DN	0 V

	nal No.	Description				Value
+ (vvire	e color)	Signal name	Input/ Output		Condition	(Approx.)
138	Ground	Receiver and sensor	Output	Ignition switch	OFF	0 V
(V)	Oround	power supply	Output	ignition switch	ACC or ON	5.0 V
139	Ground	Tire pressure receiv-	Input/	Ignition switch	Standby state	(V) 6 4 2 0 
(L)		er communication	Output	ON	When receiving the signal from the transmitter	(V) 6 4 2 0 • • • 0.2s • • 0.2s
140	Ground	Selector lever P/N	Input	Selector lever	P or N position	12 V
(B)	Oround	position (A/T models)	mpat	Coloctor level	Except P and N positions	0 V
					ON	0 V
141 (W)	Ground	Security indicator	Output	Security indicator	Blinking	(V) 15 10 5 0 1 s JPMIA0014GB
					OFF	12 V
					All switches OFF	0 V
					Lighting switch 1ST	
				Combination	Lighting switch HI	(V)
142	Ground	Combination switch	Output	switch	Lighting switch 2ND	10
(BR)	Olound	OUTPUT 5	Output	(Wiper volume dial 4)	Turn signal switch RH	0
					All switches OFF (Wiper volume dial 4)	0 V
					Front wiper switch HI (Wiper volume dial 4)	(V)
143 (P)	Ground	Ground Combination switch OUTPUT 1		Combination switch	Any of the conditions below with all switches OFF  Wiper volume dial 1  Wiper volume dial 2  Wiper volume dial 3  Wiper volume dial 6  Wiper volume dial 7	10 5 0 2 ms JPMIA0032GB

#### < ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description			Condition	Value
+	-	Signal name	Input/ Output		Condition	(Approx.)
					All switches OFF (Wiper volume dial 4)	0 V
					Front washer switch ON (Wiper volume dial 4)	(V)
144 (G)	Ground	Combination switch OUTPUT 2	Output	Combination switch	Any of the conditions below with all switches OFF  Wiper volume dial 1  Wiper volume dial 5  Wiper volume dial 6	15 10 5 0 2 ms JPMIA0033GB 10.7 V
					All switches OFF	0 V
					Front wiper switch INT/ AUTO	(V)
145		Combination switch	_	Combination switch	Front wiper switch LO	15 10 5 0
(L)	Ground	OUTPUT 3	Output	(Wiper volume dial 4)	Lighting switch AUTO	0
					All switches OFF	0 V
					Front fog lamp switch ON	
				Combination	Lighting switch 2ND	(V) 15
146	Ground	Combination switch	Output	switch	Lighting switch PASS	10
(SB)		OUTPUT 4		(Wiper volume dial 4)	Turn signal switch LH	0
150 (GR)	Ground	Driver door switch	Input	Driver door switch	OFF (Door close)	(V) 15 10 5 0 10 ms JPMIA0011GB 11.8 V
					ON (Door open)	0 V
151	Ground	Rear window defog-	Output	Rear window	Active	0 V
(G)	Cround	ger relay control	Caiput	defogger	Not activated	Battery voltage

<sup>• \*1:</sup> A/T models

Revision: 2011 December ADP-171 2011 G Coupe

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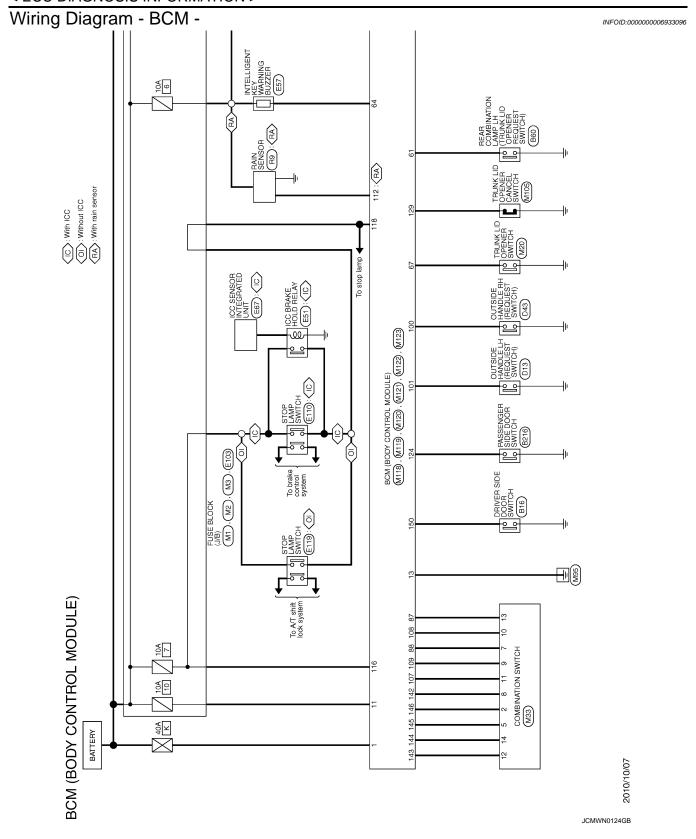
0

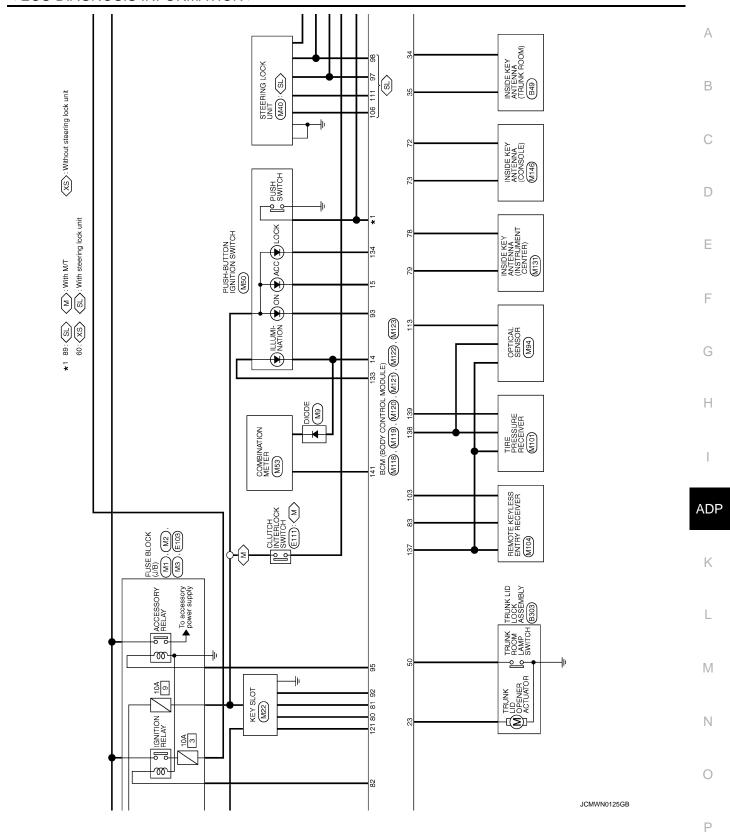
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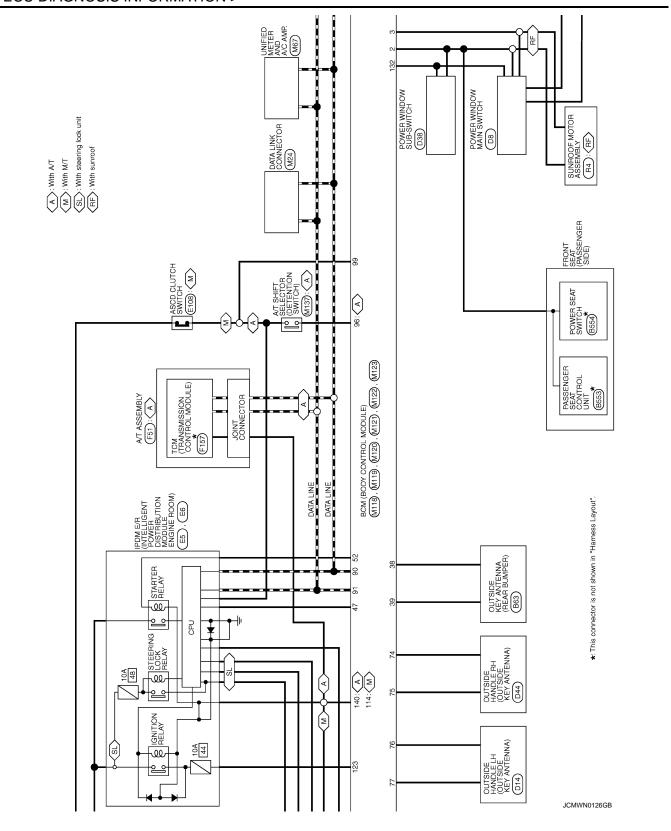
<sup>• \*2:</sup> M/T models

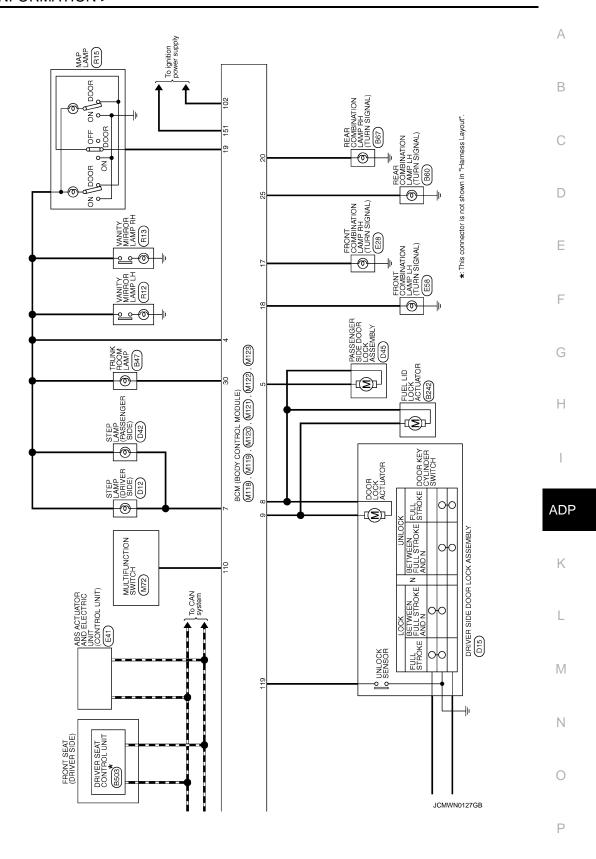
<sup>• \*3:</sup> Without steering lock unit

<sup>• \*4:</sup> With steering lock unit









KEYLESS ENTRY RECEIVER COMM	COMBI SW INPUT 5	COMBI SW INPUT 3	PUSH SW	CAN-L	CAN-H	KEY SLOT ILL	ON IND	ACC RELAY CONT	A/T SHIFT SELECTOR POWER SUPPLY	S/L CONDITION 1	S/L CONDITION 2	SHIFT P [With A/T]	ASCD CLUTCH SW [With M/T]	PASSENGER DOOR REQUEST SW	DRIVER DOOR REQUEST SW	BLOWER FAN MOTOR RELAY CONT	KEYLESS ENTRY RECEIVER POWER SUPPL'	S/L UNIT POWER SUPPLY	COMBI SW INPUT 1	COMBI SW INPUT 4	COMBI SW INPUT 2	HAZARD SW	S/L UNIT COMM																								
83 Y	87 Y	88 BG	89 BR	90 P	91 F	92 LG	H	95 BG	96 GR	97 L	98 P	99 R	99 BR	100 ≺	Н	$\Box$	$\dashv$	106 SB	7	4	W 601	110 G	111 Y																								
M121	BCM (BODY CONTROL MODILLE)	DOM (DOD) COM INCO MODOLE/	TH40FGY-NH				7	49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32	Zc   Sc   Sc   Gc   Gc   Sc   Sc   Sc   S			Simol Nome S	oignai ivanie Lopecinicationij	TRUNK ROOM ANT-	TRUNK ROOM ANT+	REAR BUMPER ANT-	REAR BUMPER ANT+	IGN RELAY (IPDM E/R) CONT	TRUNK ROOM LAMP SW	STARTER RELAY CONT	PUSH SW	TRUNK LID OPENER REQUEST SW	I-KEY WARN BUZZER (ENG ROOM)	TRUNK LID OPENER SW		M122	CM (BODY CONTROL MODILE)		I H40FB-NH			87 88 85 84 85 82 81 80 79 78 77 76 75 74 73 72	107 105 105 105 106 105 100 100 100 199 89 197 195 95 194 193 92 192		Signal Name [Specification]		ROOM ANT 2-	ROOM ANT 2+	PASSENGER DOOR ANT-	PASSENGER DOOR ANT+	DRIVER DOOR ANT-	DRIVER DOOR ANT+	ROOM ANT 1-	ROOM ANT 1+	NATS ANT AMP.	NATS ANT AMP.	The second second second
	Sonnector Name		Connector Type	_			_ [	51 50 49 48	31			al Color	of Wire	SB	>	В	Α	>	BG	œ	BR	SB	g	GR		Connector No.	٦		Connector Type			91 90 89 88	111 110 109 108		⊢	ot Wire	۳	<u></u> 5	gg	BR	>	PG FG	>	H	gR	Μ	
Connector No.	Sound.	500	Connec	4	F							Terminal	No.	34	32	38	39	47	20	25	09	19	64	67		Connec	0		Connec	修	HS				Terminal	Ö.	72	73	74	75	9/	77	78	79	8	8	
M119	BCM (BODY CONTROL MODILLE)		NS16FW-CS				4 5 6 7 1 8 9 10	11 12 13 14 15 16 17 18 19	01 01 01			None of Special Name of Special Specia		INTERIOR ROOM LAMP POWER SUPPLY	PASSENGER DOOR UNLOCK OUTPUT	STEP LAMP OUTPUT	ALL DOOR, FUEL LID LOCK OUTPUT	DRIVER DOOR, FUEL LID UNLOCK OUTPUT	BAT (FUSE)	GND	PUSH-BUTTON IGNITION SW ILL GND	ACC IND			INT ROOM LAMP CONT		M120	BCM (BODY CONTROL MODULE)	NS12FW-CS			32 32 34	26 27 28 29 30			Signal Name [Specification]		TURN SIGNAL RH (REAR)	TRUNK LID OPEN OUTPUT	TURN SIGNAL LH (REAR)	TRUNK ROOM LAMP						
Connector No.	Connector Name	acco isalia	Connector Type			U.	1	•				inal Color	of Wire	ΓC	Н	SB	$\dashv$	+	$\dashv$	+	┨	. BG		_	>		Connector No.	Connector Name	Connector Type		_	E.S.			- 1		ot Wire	+	-	$\dashv$	<u>م</u>						
Conn	Jung		Conn	[4	ほ	4	į					Terminal	No	4	2	7	®	<u>်</u>	<u>-</u> ד	<u>≅</u> ⊤	14	15	17	18	19		Conne	Conne	Conne	][4 ]	F	4			[	Terminal	ģ			_ ¬	30						
M33	COMBINATION SWITCH		TH16FW-NH			7		123 456	7 8 9 10 11 12 13 14			Ciccition County Co	oignai ivanie Especification	FR WASHER (-)	OUTPUT 4	OUTPUT 3	GND	INPUT 3	OUTPUT 5	INPUT 2	INPUT 4	INPUT 1	OUTPUT 1	INPUT 5	OUTPUT 2		M118	BCM (BODY CONTROL MODULE)	M03FB-I C			Œ	2 3	]		Signal Name [Specification]		BAT (F/L)	POWER WINDOW POWER SUPPLY (BAT)	POWER WINDOW POWER SUPPLY (RAP)							
or No.	Connector Name		Connector Type				<u>"</u>	_		IJ		_	of Wire	GR	SB	٦	В	BG	æ	>	œ	LG	Ь	٨	G			Connector Name	Connector Type	1					- 1-	Color	of Wire	> :	>	BG							
Connector No.	tranco	O III IGO	onnecto		F	Ę						Ferminal	O	-	2	2	9	~	8	6	2	=	12	13	4		Connector No.	nnecto	nnecto		厚	8				Ferminal	ė.	- -	2	္							

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BCM (BODY CONTROL MODULE)
Connector Name M123
Connector Type TH40FG-NH
Connector Type TH40FG-NH

Connector Type TH40FG-NH

Connector Type TH40FG-NH

Signal Name [Specification]	RAIN SENSOR SERIAL LINK	OPTICAL SENSOR	CLUTCH INTERLOCK SW	STOP LAMP SW 1	STOP LAMP SW 2	DR DOOR UNLOCK SENSOR	KEY SWITCH	IGN F/B	PASSENGER DOOR SW	TRUNK CANCEL SW	POWER WINDOW SW COMM	PUSH-BUTTON IGNITION SWILL POWER	LOCK IND	RECEIVER / SENSOR GND	RECEIVER / SENSOR POWER SUPPLY	TIRE PRESSURE RECEIVER COMM	SHIFT N/P	SECURITY INDICATOR LAMP	COMBI SW OUTPUT 5	COMBI SW OUTPUT 1	COMBI SW OUTPUT 2	COMBI SW OUTPUT 3	COMBI SW OUTPUT 4	DRIVER DOOR SW	
Color of Wire	~	BG	~	SB	BR	SB	SB	>	ч	BG	^	٦	ΡΓC	BG	۸	٦	В	W	BR	Ь	9	1	SB	GR	·
Terminal No.	112	113	114	116	118	119	121	123	124	129	132	133	134	137	138	139	140	141	142	143	144	145	146	150	

### Fail-safe

#### FAIL-SAFE CONTROL BY DTC

BCM performs fail-safe control when any DTC are detected.

Display contents of CONSULT	Fail-safe	Cancellation
B2013: ID DISCORD BCM-S/L	Inhibit engine cranking	Erase DTC
B2014: CHAIN OF S/L-BCM	Inhibit engine cranking	Erase DTC
B2190: NATS ANTENNA AMP	Inhibit engine cranking	Erase DTC
B2191: DIFFERENCE OF KEY	Inhibit engine cranking	Erase DTC
B2192: ID DISCORD BCM-ECM	Inhibit engine cranking	Erase DTC
B2193: CHAIN OF BCM-ECM	Inhibit engine cranking	Erase DTC
B2195: ANTI-SCANNING	Inhibit engine cranking	Ignition switch ON → OFF
B2557: VEHICLE SPEED	Inhibit steering lock	When normal vehicle speed signals are received from ABS actuator and electric unit (control unit) for 500 ms
B2560: STARTER CONT RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes consistent  • Starter control relay signal  • Starter relay status signal
B2601: SHIFT POSITION	Inhibit steering lock	<ul> <li>500 ms after the following signal reception status becomes consistent</li> <li>Selector lever P position switch signal</li> <li>P range signal (CAN)</li> </ul>
B2602: SHIFT POSITION	Inhibit steering lock	5 seconds after the following BCM recognition conditions are ful- filled • Ignition switch is in the ON position • Selector lever P position switch signal: Except P position (12 V) • Vehicle speed: 4 km/h (2.5 MPH) or more
B2603: SHIFT POSI STATUS	Inhibit steering lock	<ul> <li>500 ms after the following BCM recognition conditions are fulfilled</li> <li>Ignition switch is in the ON position</li> <li>Selector lever P position switch signal: Except P position (12 V)</li> <li>Selector lever P/N position signal: Except P and N positions (0 V)</li> </ul>
B2604: PNP/CLUTCH SW	Inhibit steering lock	500 ms after any of the following BCM recognition conditions are fulfilled  • Status 1  - Ignition switch is in the ON position  - Selector lever P/N position signal: P and N position (12 V)  - P range signal or N range signal (CAN): ON  • Status 2  - Ignition switch is in the ON position  - Selector lever P/N position signal: Except P and N positions (0 V)  - P range signal and N range signal (CAN): OFF
B2605: PNP/CLUTCH SW	Inhibit steering lock	500 ms after any of the following BCM recognition conditions are fulfilled  • Status 1  - Ignition switch is in the ON position  - Selector lever P/N position signal: Except P and N positions (0 V)  - Interlock/PNP switch signal (CAN): OFF  • Status 2  - Ignition switch is in the ON position  - Selector lever P/N position signal: P or N position (12 V)  - PNP switch signal (CAN): ON
B2606: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status becomes consistent  • Steering lock relay signal (Request signal)  • Steering lock relay signal (Condition signal)
B2607: S/L RELAY	Inhibit engine cranking	500 ms after the following CAN signal communication status has becomes consistent  • Steering lock relay signal (Request signal)  • Steering lock relay signal (Condition signal)

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#### < ECU DIAGNOSIS INFORMATION >

Display contents of CONSULT	Fail-safe	Cancellation
B2608: STARTER RELAY	Inhibit engine cranking	<ul> <li>500 ms after the following signal communication status becomes consistent</li> <li>Starter motor relay control signal</li> <li>Starter relay status signal (CAN)</li> </ul>
B2609: S/L STATUS	Inhibit engine cranking     Inhibit steering lock	When the following steering lock conditions agree BCM steering lock control status Steering lock condition No. 1 signal status Steering lock condition No. 2 signal status
B260A: IGNITION RELAY	Inhibit engine cranking	<ul> <li>500 ms after the following conditions are fulfilled</li> <li>IGN relay (IPDM E/R) control signal: OFF (12 V)</li> <li>Ignition ON signal (CAN to IPDM E/R): OFF (Request signal)</li> <li>Ignition ON signal (CAN from IPDM E/R): OFF (Condition signal)</li> </ul>
B260F: ENG STATE SIG LOST	Maintains the power supply position attained at the time of DTC detection	When any of the following conditions are fulfilled  • Power position changes to ACC  • Receives engine status signal (CAN)
B2612: S/L STATUS	Inhibit engine cranking     Inhibit steering lock	When any of the following conditions are fulfilled  Steering lock unit status signal (CAN) is received normally  The BCM steering lock control status matches the steering lock status recognized by the steering lock unit status signal (CAN from IPDM E/R)
B2617: BCM	Inhibit engine cranking	1 second after the starter motor relay control inside BCM becomes normal
B2618: BCM	Inhibit engine cranking	1 second after the ignition relay (IPDM E/R) control inside BCM becomes normal
B2619: BCM	Inhibit engine cranking	1 second after the steering lock unit power supply output control inside BCM becomes normal
B261E: VEHICLE TYPE	Inhibit engine cranking	BCM initialization
B26E8: CLUTCH SW	Inhibit engine cranking	When any of the following BCM recognition conditions are fulfilled  Status 1  Clutch switch signal (CAN from ECM): ON  Clutch interlock switch signal: OFF (0 V)  Status 2  Clutch switch signal (CAN from ECM): OFF  Clutch interlock switch signal: ON (Battery voltage)
B26E9: S/L STATUS	Inhibit engine cranking     Inhibit steering lock	When BCM transmits the LOCK request signal to steering lock unit, and receives LOCK response signal from steering lock unit, the following conditions are fulfilled  • Steering condition No. 1 signal: LOCK (0 V)  • Steering condition No. 2 signal: LOCK (12 V)

### DTC Inspection Priority Chart

If some DTCs are displayed at the same time, perform inspections one by one based on the following priority chart.

Priority	DTC	· · · · · · · · · · · · · · · · · · ·
1	B2562: LOW VOLTAGE	
2	U1000: CAN COMM     U1010: CONTROL UNIT(CAN)	
3	B2190: NATS ANTENNA AMP     B2191: DIFFERENCE OF KEY     B2192: ID DISCORD BCM-ECM     B2193: CHAIN OF BCM-ECM     B2195: ANTI-SCANNING	

#### < ECU DIAGNOSIS INFORMATION >

Priority	DTC
4	<ul> <li>■ B2013: ID DISCORD BCM-S/L</li> <li>■ B2014: CHAIN OF S/L-BCM</li> <li>■ B2555: IGNITION RELAY</li> <li>■ B2555: STOP LAMP</li> <li>■ B2555: YUBHICLE SPEED</li> <li>■ B2560: STARTER CONT RELAY</li> <li>■ B2601: SHIFT POSITION</li> <li>■ B2602: SHIFT POSITION</li> <li>■ B2603: SHIFT POSI STATUS</li> <li>■ B2604: PNP/CLUTCH SW</li> <li>■ B2605: PNP/CLUTCH SW</li> <li>■ B2606: S/L RELAY</li> <li>■ B2607: S/L RELAY</li> <li>■ B2608: STARTER RELAY</li> <li>■ B2609: S/L STATUS</li> <li>■ B2609: S/L STATUS</li> <li>■ B2600: STEERING LOCK UNIT</li> <li>■ B2600: STEERING LOCK UNIT</li> <li>■ B2600: STEERING LOCK UNIT</li> <li>■ B2607: STATUS</li> <li>■ B2612: S/L STATUS</li> <li>■ B2614: BCM</li> <li>■ B2615: BCM</li> <li>■ B2616: BCM</li> <li>■ B2617: BCM</li> <li>■ B2618: BCM</li> <li>■ B2619: BCM</li> <li>■ B2619: SCM</li> <li>■ B2619: SCM<!--</th--></li></ul>
5	<ul> <li>C1704: LOW PRESSURE FL</li> <li>C1705: LOW PRESSURE FR</li> <li>C1706: LOW PRESSURE RR</li> <li>C1707: LOW PRESSURE RL</li> <li>C1708: [NO DATA] FL</li> <li>C1709: [NO DATA] FR</li> <li>C1710: [NO DATA] RR</li> <li>C1711: [NO DATA] RL</li> <li>C1716: [PRESSDATA ERR] FL</li> <li>C1717: [PRESSDATA ERR] FR</li> <li>C1718: [PRESSDATA ERR] RR</li> <li>C1719: [PRESSDATA ERR] RL</li> <li>C1734: CONTROL UNIT</li> </ul>
6	B2621: INSIDE ANTENNA     B2622: INSIDE ANTENNA     B2623: INSIDE ANTENNA

DTC Index

#### NOTE:

The details of time display are as follows.

- CRNT: A malfunction is detected now.
- PAST: A malfunction was detected in the past.

IGN counter is displayed on Freeze Frame Data. For details of Freeze Frame Data, refer to <u>BCS-15. "COM-MON ITEM":</u>

# **BCM (BODY CONTROL MODULE)**

### < ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Refer- ence page
No DTC is detected. further testing may be required.	_	_	_	_	_
U1000: CAN COMM	_	_	_	_	BCS-34
U1010: CONTROL UNIT(CAN)	_	_	_	_	BCS-35
U0415: VEHICLE SPEED	_	_	_	_	BCS-36
B2013: ID DISCORD BCM-S/L*	×	×	_	_	<u>SEC-57</u>
B2014: CHAIN OF S/L-BCM*	×	×	_	_	SEC-58
B2190: NATS ANTENNA AMP	×	_	_	_	SEC-49
B2191: DIFFERENCE OF KEY	×	_	_	_	SEC-52
B2192: ID DISCORD BCM-ECM	×	_	_	_	SEC-53
B2193: CHAIN OF BCM-ECM	×	_	_	_	SEC-55
B2195: ANTI-SCANNING	×	_	_	_	SEC-56
B2553: IGNITION RELAY	_	×	_	_	PCS-51
B2555: STOP LAMP	_	×	_	_	SEC-61
B2556: PUSH-BTN IGN SW	_	×	×	_	SEC-63
B2557: VEHICLE SPEED	×	×	×	_	SEC-65
B2560: STARTER CONT RELAY	×	×	×	_	SEC-66
B2562: LOW VOLTAGE	_	×	_	_	BCS-37
B2601: SHIFT POSITION	×	×	×	_	SEC-67
B2602: SHIFT POSITION	×	×	×	_	SEC-70
B2603: SHIFT POSI STATUS	×	×	×	_	SEC-72
B2604: PNP/CLUTCH SW	×	×	×	_	SEC-75
B2605: PNP/CLUTCH SW	×	×	×	_	<u>SEC-77</u>
B2606: S/L RELAY*	×	×	×	_	<u>SEC-79</u>
B2607: S/L RELAY*	×	×	×	_	SEC-80
B2608: STARTER RELAY	×	×	×	_	SEC-82
B2609: S/L STATUS*	×	×	×	_	SEC-84
B260A: IGNITION RELAY	×	×	×	_	PCS-53
B260B: STEERING LOCK UNIT*	_	×	×	_	SEC-88
B260C: STEERING LOCK UNIT*	_	×	×	_	SEC-89
B260D: STEERING LOCK UNIT*	_	×	×	_	<u>SEC-90</u>
B260F: ENG STATE SIG LOST	×	×	×	_	SEC-91
B2612: S/L STATUS*	×	×	×	_	SEC-96
B2614: BCM	_	×	×	_	PCS-55
B2615: BCM	_	×	×	_	PCS-57
B2616: BCM	_	×	×	_	PCS-59
B2617: BCM	×	×	×	_	SEC-100
B2618: BCM	×	×	×	_	PCS-61
B2619: BCM*	×	×	×	_	SEC-102
B261A: PUSH-BTN IGN SW	_	×	×	_	PCS-62
B261E: VEHICLE TYPE	×	×	× (Turn ON for 15 seconds)	_	SEC-103

Revision: 2011 December ADP-181 2011 G Coupe

# **BCM (BODY CONTROL MODULE)**

# < ECU DIAGNOSIS INFORMATION >

CONSULT display	Fail-safe	Freeze Frame Data •Vehicle Speed •Odo/Trip Meter •Vehicle condition	Intelligent Key warning lamp ON	Tire pressure monitor warning lamp ON	Refer- ence page
B2621: INSIDE ANTENNA	_	×	_	_	DLK-56
B2622: INSIDE ANTENNA	_	×	_	_	DLK-58
B2623: INSIDE ANTENNA	_	×	_	_	DLK-60
B26E8: CLUTCH SW	×	×	×	_	SEC-92
B26E9: S/L STATUS*	×	×	× (Turn ON for 15 seconds)	_	<u>SEC-94</u>
B26EA: KEY REGISTRATION	_	×	× (Turn ON for 15 seconds)	_	<u>SEC-95</u>
C1704: LOW PRESSURE FL	_	_	_	×	
C1705: LOW PRESSURE FR	_	_	_	×	WT-24
C1706: LOW PRESSURE RR	_	_	_	×	<u> </u>
C1707: LOW PRESSURE RL	_	_	_	×	
C1708: [NO DATA] FL	_	_	_	×	
C1709: [NO DATA] FR	_	_	_	×	WT-26
C1710: [NO DATA] RR	_	_	_	×	<u> </u>
C1711: [NO DATA] RL	_	_	_	×	
C1716: [PRESSDATA ERR] FL	_	_	_	×	
C1717: [PRESSDATA ERR] FR	_	_	_	×	WT 20
C1718: [PRESSDATA ERR] RR	_	_	_	×	<u>WT-29</u>
C1719: [PRESSDATA ERR] RL	_	_	_	×	
C1729: VHCL SPEED SIG ERR	_	_	_	×	WT-30
C1734: CONTROL UNIT	_	_	_	×	WT-31

<sup>\*:</sup> For models without steering lock unit, this DTC is not applied.

< ECU DIAGNOSIS INFORMATION >

# DRIVER SEAT CONTROL UNIT (WITH AUTOMATIC DRIVE POSITIONER)

Reference Value INFOID:0000000006455166

#### VALUES ON THE DIAGNOSIS TOOL

Monitor Item	Condit	ion	Value/Status
SET SW	Set switch	Push	ON
SET SW	Set Switch	Release	OFF
MEMORY CWA	Mamany quitab 1	Push	ON
MEMORY SW1	Memory switch 1	Release	OFF
MEMORY CWO	Mamany avvitab O	Push	ON
MEMORY SW2	Memory switch 2	Release	OFF
SLIDE SW-FR	Cliding awitch (front)	Operate	ON
SLIDE SW-FK	Sliding switch (front)	Release	OFF
SLIDE SW-RR	Cliding switch (roor)	Operate	ON
SLIDE SW-KK	Sliding switch (rear)	Release	OFF
DECLN SW ED	Doctining quitab (front)	Operate	ON
RECLN SW-FR	Reclining switch (front)	Release	OFF
RECLN SW-RR	Paclining switch (roor)	Operate	ON
NLOLIN SW-KK	Reclining switch (rear)	Release	OFF
LIFT FR SW-UP	Lifting quitch front (up)	Operate	ON
LIFT FK SVV-UP	Lifting switch front (up)	Release	OFF
LIFT FR SW-DN	Lifting switch front (down)	Operate	ON
LIFT FK SW-DIN	Litting Switch Horit (down)	Release	OFF
LIFT RR SW-UP	Lifting quitab roor (up)	Operate	ON
LIFT RR SW-UP	Lifting switch rear (up)	Release	OFF
LIFT RR SW-DN	Lifting quitab roor (down)	Operate	ON
LIFT RR SW-DN	Lifting switch rear (down)	Release	OFF
MIR CON SW-UP	Mirror quitab	Up	ON
WIR CON SW-OP	Mirror switch	Other than above	OFF
MID CON SW DN	Mirror quitab	Down	ON
MIR CON SW-DN	Mirror switch	Other than above	OFF
MID CON SW DU	Mirror quitch	Right	ON
MIR CON SW-RH	Mirror switch	Other than above	OFF
MIR CON SW-LH	Mirror quitch	Left	ON
IVIIN CON SVV-LM	Mirror switch	Other than above	OFF
MIR CHNG SW-R	Changeover switch	Right	ON
IVIII CHING SVV-K	Changeover switch	Other than above	OFF
MIR CHNG SW-L	Changeover switch	Left	ON
IVIIN UHING SVV-L	Changeover switch	Other than above	OFF
TILT SW-UP	Tilt switch	Up	ON
IILI SVV-UP	THE SWILCH	Other than above	OFF
TILT SW-DOWN	Tilt switch	Down	ON
TILI SVV-DOVVIN	THE SWILCH	Other than above	OFF

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**ADP-183** Revision: 2011 December 2011 G Coupe

< ECU DIAGNOSIS INFORMATION >

Monitor Item	Con	dition	Value/Status
TEL 5000 0W 5D	T. 1	Forward	ON
TELESCO SW-FR	Telescopic switch	Other than above	OFF
TELESCO SW-RR	Tilt switch	Backward	ON
TELESCO SW-KK	THE SWILCH	Other than above	OFF
FORWARD SW	Seat back	Folded down	ON
I ORWARD 3W	Seat back	Other than above	OFF
WALK-IN SW	Power walk-in switch	Pressed	ON
WALK IIV OW	1 OWEI WAIK III SWIGH	Other than above	OFF
FWD LIMIT SW	Seat sliding	Front edge	ON
T VVD ENVIT OVV	ocat sliding	Other than above	OFF
SEAT BELT SW	Seat belt	Fastened	ON
OE/ (I BEE! OW	Cour bon	Other than above	OFF
DETENT SW*1	A/T selector lever	P position	OFF
DETERM OW	7.4.1 00.00.00.10.10.1	Other than above	ON
PARK BRAKE SW*2	Parking brake	Applied	ON
TAIRLE OV	. animing praise	Release	OFF
STARTER SW	Ignition position	Cranking	ON
	.g	Other than above	OFF
		Forward	The numeral value decreases *3
SLIDE PULSE	Seat sliding	Backward	The numeral value increases *3
		Other than above	No change to numeral value <sup>*3</sup>
		Forward	The numeral value decreases *3
RECLN PULSE	Seat reclining	Backward	The numeral value increases *3
		Other than above	No change to numeral value <sup>*3</sup>
		Up	The numeral value decreases *3
LIFT FR PULSE	Seat lifter (front)	Down	The numeral value increases *3
		Other than above	No change to numeral value*3
		Up	The numeral value decreases *3
LIFT RR PULSE	Seat lifter (rear)	Down	The numeral value increases *3
		Other than above	No change to numeral value <sup>*3</sup>
MIR/SEN RH U-D	Door mirror (passenger s	side)	Change between 3.4 (close to peak) 0.6 (close to valley)
MIR/SEN RH R-L	Door mirror (passenger s	side)	Change between 3.4 (close to left edge) 0.6 (close to right edge)
MIR/SEN LH U-D	Door mirror (driver side)		Change between 3.4 (close to peak) 0.6 (close to valley)
MIR/SEN LH R-L	Door mirror (driver side)		Change between 0.6 (close to left edge) 3.4 (close to right edge)
TILT SEN	Tilt position		Change between 1.2 (close to top) 3.4 (close to bottom)
TELESCO SEN	Telescopic position		Change between 3.4 (close to top) 0.8 (close to bottom)

<sup>\*1:</sup> A/T model

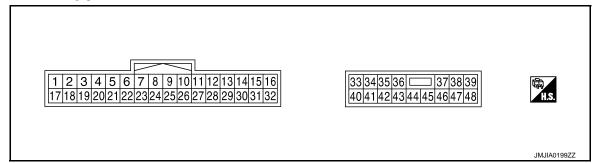
Revision: 2011 December ADP-184 2011 G Coupe

<sup>\*2:</sup> M/T model

<sup>\*3:</sup> The value at the position attained when the battery is connected is regarded as 32768.

< ECU DIAGNOSIS INFORMATION >

### TERMINAL LAYOUT



#### PHYSICAL VALUES

	nal No. color)	Description				Voltage (V)
+	-	Signal name	Input/ Out- put	Con	dition	(Approx)
1 (L/W)	Ground	UART communication (RX)	Input	Ignition switch ON	l	2mSec/div 2V/div JMJIA0118ZZ
3 (R/Y)	_	CAN-H	_	-	_	_
4		Sliding limit switch		Seat sliding front	edge	0
(O/B)	Ground	signal	Input	Seat switch & pow pressed	er walk-in switch is	5
5 (L)	Ground	Seat belt buckle switch signal (driv-	Input	Seat belt fastened pressed	& seat switch	5
(L)		er side)		Other than above		0
8	Ground	Parking brake	Input	Parking brake	Applied	0
(L/Y)	Giodila	switch signal	iiiput	Faiking blake	Release	Battery voltage
9 (W/G)	Ground	Reclining sensor signal	Input	Seat reclining	Operate	10mSec/div 2V/div JMJIA0119ZZ
					Stop	0 or 5
10 (P/B)	Ground	Lifting sensor (rear) signal	Input	Seat lifting (rear)	Operate	10mSec/div 2V/div JMJIA0119ZZ
					Stop	0 or 5

Revision: 2011 December ADP-185 2011 G Coupe

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< ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description				Voltage (V)
+	-	Signal name	Input/ Out- put	Con	dition	(Approx)
11 (BR)	Ground	Sliding switch backward signal	Input	Sliding switch	Operate (backward)	0
(= : -)					Release	Battery voltage
12 (SB)	Ground	Reclining switch backward signal	Input	Reclining switch	Operate (backward)	0
(02)		Sacrimara digital			Release	Battery voltage
13 (LG/R)	Ground	Lifting switch (front) downward signal	Input	Lifting switch (front)	Operate (downward)	0
(==:::)				(1.21.3)	Release	Battery voltage
14 (G/B)	Ground	Lifting switch (rear) downward signal	Input	Lifting switch (rear)	Operate (downward)	0
(0,2)				(100.1)	Release	Battery voltage
16 (O)	Ground	Sensor power sup- ply	Out- put	-	_	Battery voltage
17 (Y/R)	Ground	UART communication (TX)	Out- put	Ignition switch ON	I	10mSec/div 2V/div JMJIA0121ZZ
19 (V)	_	CAN-L	_	-	_	_
					P position	0
21 (L/Y)	Ground	Detention switch switch	Input	A/T selector lever	Except P position	20mSec/div
24 (R)	Ground	Sliding sensor sig- nal	Input	Seat sliding	Operate	10mSec/div 2V/div JMJIA0119ZZ
					Stop	0 or 5
25 (Y/B)	Ground	Lifting sensor (front) signal	Input	Seat lifting (front)	Stop	0 or 5

< ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description				Voltage (V)
+	-	Signal name	Input/ Out- put	Cond	dition	(Approx)
26 (Y)	Ground	Sliding switch for- ward signal	Input	Sliding switch	Operate (forward)	0
(1)		waru signai			Release	Battery voltage
27 (R/G)	Ground	Reclining switch forward signal	Input	Reclining switch	Operate (forward)	0
(K/G)		iorwaru signai			Release	Battery voltage
28 (W/B)	Ground	Lifting switch (front) upward signal	Input	Seat lifting switch (front)	Operate (upward)	0
(۷۷/۵)		upwaru signai		(Horit)	Release	Battery voltage
29 (P/L)	Ground	Lifting switch (rear) upward signal	Input	Seat lifting switch (rear)	Operate (upward)	0
(1 / =)		upwaru signai		(ICai)	Release	Battery voltage
30	Ground	Power walk-in	Input	Power walk-in	Pressed	0
(P)	Ordana	switch signal	mput	switch	Other than above	Battery voltage
31 (GR)	Ground	Sensor ground	_	-	_	0
32 (B/W)	Ground	Ground (signal)	_	-	_	0
33 (R)	Ground	Power source (C/B)	Input	-	_	Battery voltage
35 (W/R)	Ground	Sliding motor for- ward output	Out-	Seat sliding	Operate (forward)	Battery voltage
(**/***)		wara output	put		Release	0
36 (G/Y)	Ground	Reclining motor for- ward output signal	Out-	Seat reclining	Operate (forward)	Battery voltage
(0/1)		wara output signal	put		Release	0
37 (G/W)	Ground	Lifting motor (front) downward output	Out- put	Seat lifting (front)	Operate (downward)	Battery voltage
(0/11)		downward output	put		Stop	0
38 (L/Y)	Ground	Lifting motor (rear) upward output	Out- put	Seat lifting (rear)	Operate (upward)	Battery voltage
(=/ 1)		apmara output	put		Stop	0
39 (R/B)	Ground	Lifting motor (rear) downward output	Out-	Seat lifting (rear)	Operate (downward)	Battery voltage
(10,0)		downward output	put		Stop	0
40 (R/W)	Ground	Power source (Fuse)	Input	-	_	Battery voltage
				Seat back is folder walk-in switch pre-	d down and power ssed	0
41 (Y/G)	Ground	Forward switch signal	Input	Seat back is fold using is operation	ip and seat reclin-	battery voltage
				Seat back is fold u	ip and power walk-	5
42	Ground	Sliding motor back-	Out-	Seat sliding	Operate (backward)	Battery voltage
(W)		ward output	put	· · · · · · · · · · · · · · · · · · ·	Stop	0

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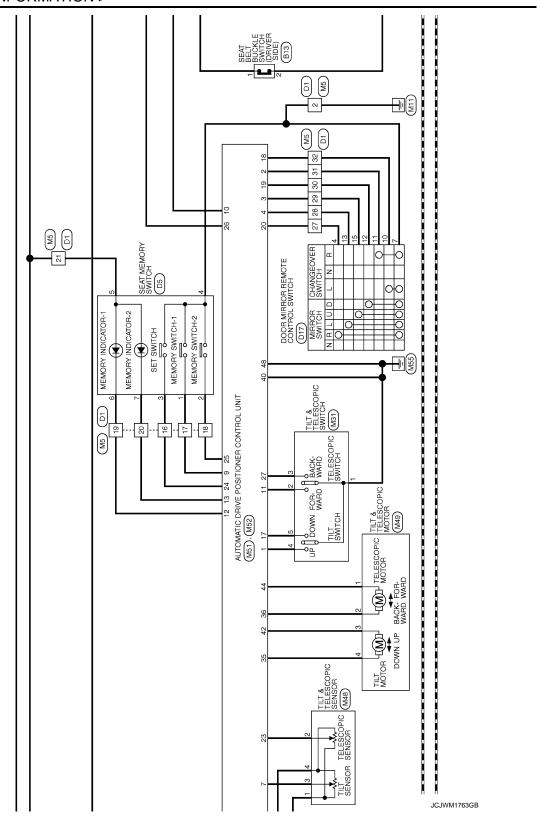
### < ECU DIAGNOSIS INFORMATION >

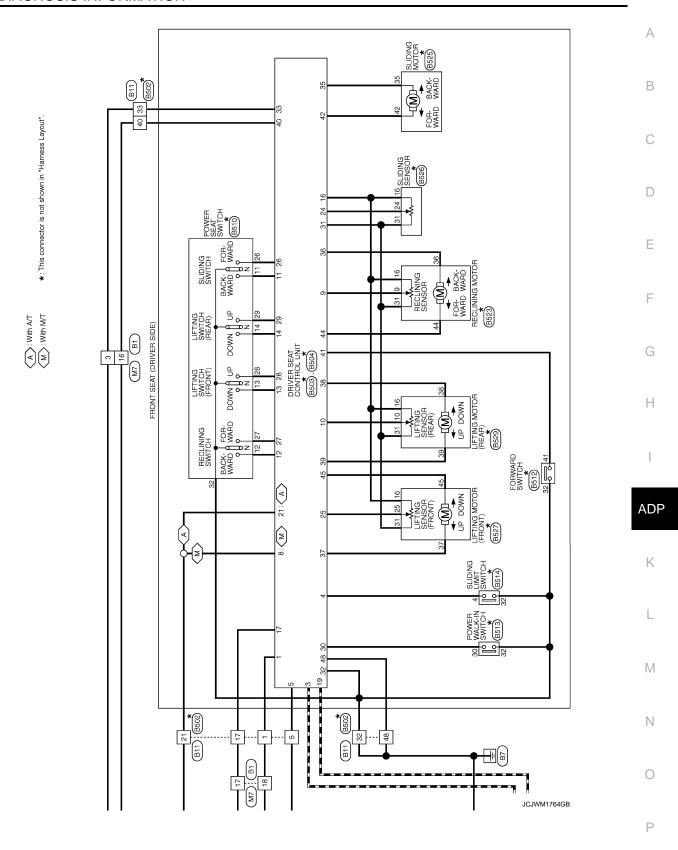
	nal No. color)	Description				Voltage (V)
+	-	Signal name	Input/ Out- put	Con	dition	(Approx)
44 (P)	Ground	Reclining motor backward output	Out-	Seat reclining	Operate (backward)	Battery voltage
(P)		backwaru output	put		Stop	0
45 (L/R)	Ground	Lifting motor (front)	Out-	Seat lifting (front)	Operate (upward)	Battery voltage
(L/IV)	upward output put		Stop	0		
48 (B)	Ground	Ground (power)		_	_	0

< ECU DIAGNOSIS INFORMATION >

Wiring Diagram - AUTOMATIC DRIVE POSITIONER CONTROL SYSTEM -Α INFOID:0000000006455167 В C \*: This connector is not shown in "Harness Layout". AUTOMATIC DRIVE POSITIONER CONTROL UNIT (M51) (M52) D 38 37 36 Е F [= (<u>§</u> DOWN UP LEFT RIGHT G 42 38 Н 37 ADP CIRCUIT BREAKER (M62) 'CM TRANSMISSION CONTROL MODULE) JOINT K BCM (BODY CONTROL MODULE)
(M118), (M129), (M128) DATA LINK CONNECTOR (M24) FUSE BLOCK (J/B) (M1) **AUTOMATIC DRIVE POSITIONER** KEY SLOT DATA LINE M955 10A M SIDE DOOR SWITCH (B16) Ν <u>E100</u> (M6 404 A BATTERY 0 2010/10/07 Ρ

JCJWM1762GB





< ECU DIAGNOSIS INFORMATION >

Name (Specification)    Commetter Ty   Commetter Ty	AUTOMATIC DRIVE POSITIONER Connector No. B1	58	> =	1 1	67	GR	1	2 \		
1	WIRE TO WIRE	g 09	3 %							
Signal Name (Specification)   1   1   1   1   1   1   1   1   1	TH80FW-CS16-TM4	19	≥ 0	1	Connector	1	3	Т		
Signal Name (Specification)   Sign		63	¥ _	1 1	Connector		AT BELT BUCKLE SWITCH (DRIVER SIDE)		IRE	
Signal Name (Specification)   Color Specification)   Color Specification   Color	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	64	>	-	Connector	П	3FW	П	S	
Signal Name (Specification)   21   87   1   1   1   1   1   1   1   1   1		92	SHIELD	-	1			1		
Signal Name (Specification)   Sign	0 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	17	ä	ı	李		K	ATT.		
Specification   24	0.000	72	SB	1	H.S.		K			
1		73	۵	I			<del>-</del>	19 3 1	17 40	
Signal Name   Specification   Color Signal Name   Co		74	-	ı			2	5 66 32	2 48 21 33 67 60	
Signal Name   Specification   Color	Signal Name [Specification]	50	ر ا	1			m			
Ferminal   Color   Ferminal   Fe		82	م >							
Signal Name (Specification)   No. of Wire   Signal Name (Specification)   Signal Name (Specification)   No. of Wire   Signal Name (Specification)   Signal Name		g g	1	1	_	rolo		rolo		
Sign   V   Connector No.   C	1	98	, g	1	_	of Wire	Signal Name [Specification]	of Wire	gnal Name [Specification]	
10   10   10   10   10   10   10   10	1	87	~	-	T	æ	1	t	1	
100   17   17   17   17   17   17   17		8	>	1	. ~	· ·	1	t	11	
1	_	06	æ	1				t	1	
Sign BC   Connector Name   Colorestor Name   C	1	16	>	1				t	11	
100   V	1	95	BG	1	Connector	ı	4	H	1	
100   V	1	96	œ	ı				H	1	
Connector Name   Bit   Connector Type   Colorector Type   Colorector Type   Colorector Type   Colorector Type   NSIGFW-CS		100	>	1	Connector		RKING BRAKE SWITCH	H	1	
Connector Name   WIRE TO WIRE					Connector	Г	1FB-A	H	1	
Connector Name   WIRE TO WIRE   Connector Name   Color   Col	1				1	1		H	1	
Corrector Name   WIRE TO WIRE	I	Connector		311	修			H	1	
Commettor Type   NIS16FW-CS   Commettor Type   NIS16FW-CS	1		г	LOW OF LOW	į.			H	1	
Connector Type   NS16FW-CS	1	Connector		WIRE TO WIRE				L	1	
Terminal   Color   17   13   19   19   19   19   10   10   10   10	1	Connector	Г	4S16FW-CS			-	H	1	
Terminal   Color   17   3   19   1   3   19   1   1   3   19   1   1   3   19   1   1   1   1   1   1   1   1	1	(	1				]			
11   12   19   19   19   19   19   19	1	修								
10   17   10   18   19   19   19   19   19   19   19	1	\ \ \ \								
Signal Name [Specification]   Signal Name [Specification]   Specification]   Signal Name [Specification]   Specification]   Signal Name [Specification]   Specification]   Signal Name [Specification]   Signal Name [Specification]   Signal Name [Specification]   Specification]   Signal Name [Specification]   Specification]   Signal Name [Specification]   Specification]   Specification]   Specification   Signal Name [Specification]   Specification]   Specification   Signal Name [Specification]   Specification]   Specification   Spe	1			12 1 3 1	Terminal	Color	3			
Terminal Color   Connector No.   Elife   Elife   Connector No.   Elife   Connector No.   Elife   Con			9	33 21 48 32 66		of Wire	ognal warne Lopecinication			
Terminal Golor   Signal Name [Specification]   Connector No.   B16   Connector No.   B16   Connector No.   B16   Connector Name   DRVER   Connector Name   Connecto	-			22 22 22	-	^	•			
Terminal Golor   Signal Name [Specification]   Connector No. of Wire   Signal Name [Specification]   Connector Name   DRIVER   Connector Type   AOSIFW   AOSIFW   Connector Type   AOSIFW   A	-									
Connector No.   Color	_									
No of Wire   Connector Name   DRIVER     1		Terminal	Color	Signal Name [Specification]	Connector		6			
1 W   Commetter Type   A038FW     2 V   C   C     17 LG   C   C     18 V   C   C     19 V   C   C     21 V   C   C     22 B   C   C     32 B   C   C     40 BR   C   C   C   C   C     40 BR   C   C   C   C   C     40 BR   C   C   C   C   C   C     40 BR   C   C   C   C   C   C   C     40 BR   C   C   C   C   C   C   C   C     40 BR   C   C   C   C   C   C   C   C   C     40 BR   C   C   C   C   C   C   C   C   C	1	No.	of Wire		Connector		NVER SIDE DOOR SWITCH			
Connector Type   A03PW	ı	-	>	-		_				
17   V	-	3	7	_	Connector .		3FW			
19 LG	-	5	٨	-	ģ					
19   P	1	17	5J	1	彦		E			
21 V	1	61	۵	1	S E		<u> </u>			
32   B	1	21	>	1			-			
23 SB		33		1			-] (			
40 BB Terminal Color 60 G - No.	1	8	9	ı			7			
48		3 8	9 8				8			
40 G - Terminal Color Act Wire	1 1	Ç Ç	á .				]			
Poly Poly Poly Poly Poly Poly Poly Poly	1	P	٦		T.	1				
	1	8	9 ;		- N	1000 A	Signal Name [Specification]			

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### < ECU DIAGNOSIS INFORMATION >

fration]	А
Id MOTOR Signal Name (Specification) Signal Name (Specification) Signal Name (Specification)	В
RECLINIS REC	С
Connector No.  Connector Name Connector Type  H.S.  H.S.  H.S.  Terminal Color  Ormector Name Connector Name Co	D
beification]	Е
Signal Name [Specification]	F
	G
Connector No.   Connector No.	Н
Signal Name [Specification]  SLIDING MOTOR (FORWARD)  RECLINING MOTOR (FORWARD)  RECLINING MOTOR (LIPWARD)  REAR LIFTING MOTOR (LIPWARD)  REAR LIFTING MOTOR (LIPWARD)  RECLINING MOTOR (LIPWARD)  GND (POWER)  SIGNAL LIFTING MOTOR (LIPWARD)  SIGNAL LIFTING MOTOR (LIPWARD)  AND (POWER)  SIGNAL LIFTING MOTOR (LIPWARD)  SIGNAL LIFTING MOTOR (LIPWARD)  AND (POWER)	I
Signal Name [ SLIDING MOIT RECLINIG MOIT RECALLIFING MOIT REAR LIFING MOIT FRONT LIFING MOIT Signal Name [ Signal Name	ADP
O Color Name	K
	L
Managlar Name   Biggia   DRIVE POSITIONER	M
C DRIVE POSITIONEF B503	
NAMATIC DRIN   No.   B503	N
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Revision: 2011 December ADP-193 2011 G Coupe

< ECU DIAGNOSIS INFORMATION >

AUTOMATIC DRIVE POSITIONER Connector No. B526	Terminal	Color Signal Name (Specification)	H	-a	
Connector Name SLIDING SENSOR	No.	of Wire	42 G 43 GR	No. of Wire	
Connector Type 6098-0241	16		┝	2	
á	31		- BG -	3 GR	
医	38		47 L	4 B -	
HS.	39	R/B -	$\dashv$	5 R	
			-	- BG -	
24 31 16		ľ	+	- A 7	
	Connector No.	T	- L		
	Connector Name	Name WIRE TO WIRE		Connector No D17	
, olo	Connector Time	Two THADDW-CS15		Т	T
No. of Wire Signal Name [Specification]		1	Connector No. D3	Connector Name DOOR MIRROR REMOTE CONTROL SWITCH	
- 0 91	修		Г	Connector Type TK16FBR	
H	S		Connector Name DOOR MIRROR (DRIVER SIDE)		
Н		15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	Connector Type TH12MW-NH	()	
		48 45 44 43 42 41 40 39 38 37 38 28 24 28 22 21 20 19 18 17 16 15 15 15 15 15 15 15 15 15 15 15 15 15	d		
- [			国	1234 67	
Connector No. B527			HS.	8 9 10 11 12 13 14 15 16	
Connector Name   IFTING MOTOR (FRONT)		•	5 6 7 0 4		
$\neg$	Terminal	Color Signal Name [Specification]	\		
Connector Type NSU6FW-CS	Ö,		11 10 8 9		ſ
	- 0	<u> </u>		Lerminal Color   Signal Name [Specification]	
	4 65		Terminal Golor	4	Ī
72   72   72   72   72   73   74   75   75   75   75   75   75   75	4		_		
i č	- α	- 7	╈	. 8	
C7 16 01	6	-	5 BR - [With automatic drive positioner]	6	
	01	T	BG	<u></u>	
	12	GR -	L	=	
Гe	13		- G	- 6 -	
of Wire	14	9	8 B	L	
- 0 91	15		а 6	- 15 Y	
25 Y/B –	91	GR -	10 BR		]
Н	17	- SB	- M II		
37 G/W	81	BR -			
45 L/R -	16	- Bg			
	20	- 4			
	21	- 2	Connector No. D5		
Connector No. B529	52	_ ^	_		
Г	26	- ~	Connector Name SEAT MEMORY SWILCH		
Connector Name   LIF LING MOTOR (REAR)	27		Connector Type A08FW		
Connector Type NS06FBR-CS	28	M		]	
1	59	-	修		
Œ	30	- S			
	3 5				
38	32		2 2 3		
6 9 9	33 8		I		
	36				
	37	-			
	38				
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< ECU DIAGNOSIS INFORMATION >

Signal Name   Specification   Specification   Signal Name   Specification   Sp		В
Connector No.   Connector No.   Connector Name   Connec		D
		Е
		F
		G
1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		Н
THI2MW-NH		ADP
Name		K
Connecto		
AUTOMATIC DRIVE POSITIONER   Damector Na.   Dist   Damector Na.   Dist   Damector Na.   Dist   Damector Type   TH40FW-CS15		M
Signal		Ν
Connector No.   Connector No.   Connector No.   Connector Type   THE   THE	IC IMMAZEOCO	0
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Revision: 2011 December ADP-195 2011 G Coupe

AUTOM.	MA.	AUTOMATIC DRIVE POSITIONER	61	BG	1	1	ŀ	- 2
			30	2	1	Ē	╀	1
Connector Name	r Name	FUSE BLOCK (J/B)	27	. 3	1	2 2	╀	
Connector Type	r Type	NS06FW-M2	25	· >-	1	17	╀	BR -
4			56	9	I	82	Ͱ	
J			27	-	1	-19	Н	
SH			28	>	-	20	Н	
		3A	59	9	-	30	Н	BR -
		8A 7A 6A 5A 4A	30	SB	-	31		
			31	ΓC	1	32	$\dashv$	
			32	×	1	33	$\dashv$	BG -
			33	В	1	34	$\dashv$	M
Terminal	Color	Signal Name [Specification]	36	*	ı	32	$\dashv$	BR -
No.	of Wire		37	g	1	36	$\dashv$	- '
4	>		38	>	I	37	4	-
2A	g	I	39	В	T	38	4	
3A	٦	1	42	٨	-	39		SB -
4A	۵	-	43	٦	•	40		-
5A	_	1	44	5	- [With automatic drive positioner]	41	L	
9 9	Y		44	٦	- [Without automatic drive positioner]	45	H	PT
7A	۲	1	47	_	1	43	H	1
8A	٦	1	48	GR	1	44	H	B – [With A/T]
			49	SB	ī	44	L	R – [With M/T]
			20	Ь	1	45	L	- BG
Connector No.	r No.	M5	51	Ρ	1	46	L	- 5
Nomo	Nomo	adiw Ot adiw	52	^	1	47	L	7
200	Malic					48	Ц	
Connector Type	r Type	TH40MW-CS15				49	Н	
ą			Connector No.	П	M6	29	4	- B
季			Connector Name		WIRE TO WIRE	99	4	
HS				П		67	4	- 1
	7		Connector Type	╗	TH80MW-CS16-TM4	89	4	
	1617181	1617/1819/20/21/22/23/24/25/26 36/37/38/39/40/41/42/43/44/45/46	þ			69	4	M
			THE PERSON NAMED IN			70	$\dashv$	- 5
			HS.		9 10 20 20 20 20 20 20 20 20 20 20 20 20 20	8	+	SB -
					25 25 25 25 25 25 25 25 25 25 25 25 25 2	81	$\dashv$	- В
Terminal	Color	Signal Name [Specification]			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	82	4	^
No.	of Wire				8	83	4	M
_	<b>&gt;</b>	-			M M M	84		
2	В	-				82	-	GR –
3	BG	-	Terminal	Color	Oissel Nome Consideration	98		- 9
4	>	-	No.	of Wire	oignal Name [opecimication]	87	H	
8	SB	1	-	BG	1	88	L	
6	5	1	3	۳	1	68	L	- TO
10	۸	-	2	9	-	91	H	M
12	٦	1	9	ΡΠ	-	93	H	A
13	Μ	-	7	W		92	L	·
14	æ	1	6	5	Т	96	H	1
15	×	1	2	*	1	97	┞	GR -
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18	>		13	_	-	001	╀	SB
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< ECU DIAGNOSIS INFORMATION >

M48 TILT & TELESCOPIC SENSOR TKO4FW  Signal Name [Specification]  Signal Name [Specification]  Signal Name [Specification]	АВ
Connector No.   M48	C
M24 DATA LINK CONNECTOR BD16FW-P  Signal Name [Specification]  Signal Name [Specification]  Signal Name [Specification]  Signal Name [Specification]	E
Connector No.   M24	G
T T Signal Name [Specification]	ADP
Se   B   Se   Se   Se   Se   Se   Se	K
### AUTOMATIC DRIVE POSITIONER    Journal	L
M.7. MIC DRIVE PO WRE TO WRE T	Ν
AUTOMAT    Commetter Name   Commetter Name   Color	0
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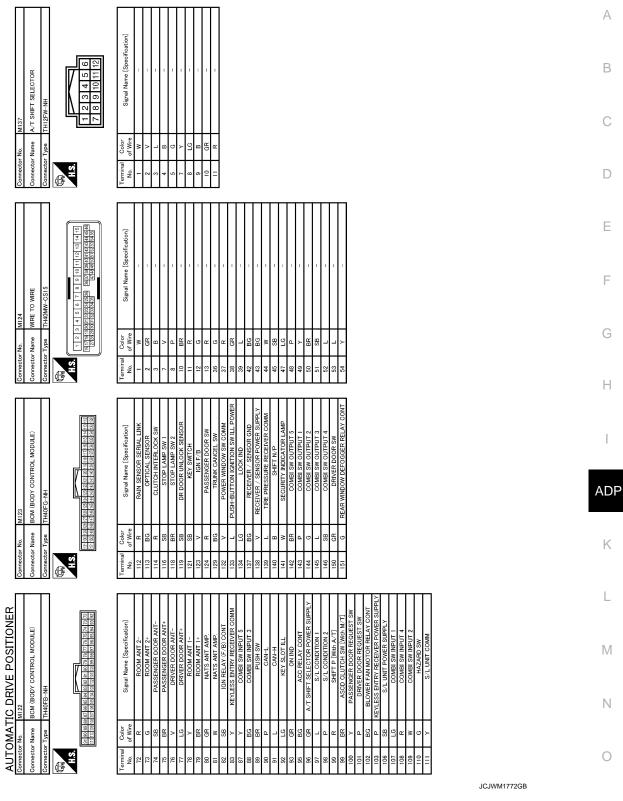
Revision: 2011 December ADP-197 2011 G Coupe

### < ECU DIAGNOSIS INFORMATION >

Connector No.   Connector Name   Connector Name   Connector Name   Connector No.   Connector		AUTOMATIC DRIVE POSITIONER CONTROL UNIT	SC	36   1   37   38   30	<b>4</b> 5 46 47	Signal Name [Specification]	POWER SUPPLY (SENSOR)	BAT (FUSE)	TILT MOTOR (UPWARD)	TELESCOPIC MOTOR (FORWARD)	GND (SIGNAL)	GND (SENSOR)	TILT MOTOR (DOWNWARD)	TELESCOPIC MOTOR (BACKWARD)	GND (POWER)		0 0 0 0	SREAKER	0		<u> </u>			Signal Name [Specification]	1 1	
	Connec	$\neg$	stor Type NS16FW-CS	33 34	34 35 30 41 42 43 44	Color of Wire	Ш		4	+			Н	+		Г		П	stor Type M02FW-LC		-]	2	Color	of Wire	7 8	- ge

JCJWM1771GB

#### < ECU DIAGNOSIS INFORMATION >



Fail Safe

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

< ECU DIAGNOSIS INFORMATION >

Operating in fail-safe mode	Malfunction Item	Related DTC	Diagnosis
	CAN communication*1	U1000	With ADP: ADP-48
	CAN communication	01000	Without ADP: ADP-48
Only manual functions operate normally.	Tilt sensor*1	B2118	With ADP: ADP-53
,,	Tilt sensor"	D2110	Without ADP: ADP-53
	Telescopic sensor	B2119	<u>ADP-56</u>
	Detent switch	B2126	ADP-59
	Parking brake switch	B2127	<u>ADP-61</u>
Only manual functions, except door mirror, operate normally.	UART communication	B2128	<u>ADP-63</u>
Only manual functions, except seat sliding, operate normally.	Seat sliding output	B2112	ADP-49
Only manual functions, except seat reclining, operate normally.	Seat reclining output	B2113	<u>ADP-51</u>

<sup>\*1:</sup> Driver seat without automatic driver positioner system display only "U1000 CAN COMM CIRCUIT" and "B2112 SEAT SLIDE".

DTC Index

CONSULT-III	Tim	ing <sup>*1</sup>		
display	Current mal- function	Previous mal- function	Item	Reference page
CAN COMM CIRCUIT*2	0	1-39	CAN communication	With ADP: ADP-48
[U1000]	0	1-39	CAN COMMUNICATION	Without ADP: ADP-48
SEAT SLIDE*2	0	1-39	Cost alida matar autaut	With ADP: ADP-49
[B2112]	0	1-39	Seat slide motor output	Without ADP: ADP-49
SEAT RECLINING [B2113]	0	1-39	Seat reclining motor output	ADP-51
TILT SENSOR [B2118]	0	1-39	Tilt sensor input	ADP-53
TELESCO SENSOR [B2119]	0	1-39	Telescopic sensor input	ADP-56
DETENT SW* <sup>2</sup> [B2126]	0	1-39	Detention switch condition	ADP-59
PARKING BRAKE [B2127]	0	1-39	Parking brake switch condition	ADP-61
UART COMM [B2128]	0	1-39	UART communication	<u>ADP-63</u>

<sup>\*1.</sup> 

<sup>• 0:</sup> Current malfunction is present

<sup>• 1-39:</sup> 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.

<sup>\*2:</sup> Driver seat without automatic driver positioner system display only "U1000 CAN COMM CIRCUIT" and "B2112 SEAT SLIDE".

< ECU DIAGNOSIS INFORMATION >

### AUTOMATIC DRIVE POSITIONER CONTROL UNIT

Reference Value

Α

В

C

D

Е

#### **TERMINAL LAYOUT**

#### PHYSICAL VALUES

	nal No. color)	Description		Conditi	on	Voltage (V)
+	_	Signal name	Input/ Output	Conditi	OII	(Approx.)
1	Ground	Tilt switch upward signal	Input	Tilt switch	Operate (upward)	0
(Y)	Ground	Till Switch upward Signal	IIIput	The Switch	Other than above	5
2		Changeover switch RH		Changeover	RH	0
(LG)	Ground	signal	Input	switch position	Neutral or LH	5
3	Ground	Mirror switch upward sig-	Input	Mirror switch	Operated (upward)	0
(G)	Ground	nal	input	WIIITOI SWILCTI	Other than above	5
4	Ground	Mirror switch leftward sig-	Innut	Mirror switch	Operated (leftward)	0
(Y)	Ground	nal	Input	Willfor Switch	Other than above	5
5 (R)	Ground	Door mirror sensor (RH) upward/downward signal	Input	Mirror face (door n	nirror RH)	Change between 3.4 (close to peak) 0.6 (close to valley)
6 (GR)	Ground	Door mirror sensor (LH) upward/downward signal	Input	Mirror face (door n	nirror LH)	Change between 3.4 (close to peak) 0.6 (close to valley)
7 (BG)	Ground	Tilt sensor signal	Input	Tilt position		Change between 1.2 (close to top) 3.8 (close to bottom)
9					Press	0
(BR)	Ground	Memory switch 1 signal	Input	Memory switch 1	Other than above	5
10 (V)	Ground	UART communication (TX)	Output	Ignition switch ON		2mSec/div

#### < ECU DIAGNOSIS INFORMATION >

	inal No. e color)	Description		Condition	an.	Voltage (V)
+	_	Signal name	Input/ Output	Condition	on	(Approx.)
11 (GR)	Ground	Telescopic switch forward signal	Input	Telescopic switch	Operate (forward) Other than above	0 5
12 (BG)	Ground	Memory indictor 1 signal	Output	Memory indictor 1	Illuminate Other than above	1 Battery voltage
13 (P)	Ground	Memory indictor 2 signal	Output	Memory indictor 2	Illuminate Other than above	1 Battery voltage
14	Ground	Door mirror motor (RH)	Output	Door mirror RH	Operate (upward)	Battery voltage
(W)		upward output			Other than above	0
15	Ground	Door mirror motor (RH)	Output	Door mirror RH	Operate (leftward)	Battery voltage
(BG)		leftward output	,		Other than above	0
		Door mirror motor (LH) downward output			Operate (down- ward)	Battery voltage
16 (Y)	Ground	downward output	Output	Door mirror (LH)	Other than above	0
(1)		Door mirror motor (LH)			Operate (rightward)	Battery voltage
		rightward output			Other than above	0
17 (BR)	Ground	Tilt switch downward sig-	Input	Tilt switch	Operate (down- ward)	0
(DIV)		Tial			Other than above	5
18 (W)	Ground	Changeover switch LH signal	Input	Changeover switch position	LH Neutral or RH	5
19 (SB)	Ground	Mirror switch downward signal	Input	Mirror switch	Operate (down- ward)	0
(36)		Signal			Other than above	5
20	Ground	Mirror switch rightward	Innut	Mirror switch	Operate (rightward)	0
(L)	Ground	signal	Input	WILLIAM SWILCH	Other than above	5
21 (L)	Ground	Door mirror sensor (RH) leftward/rightward signal	Input	Door mirror RH pos	sition	Change between 3.4 (close to left edge) 0.6 (close to right edge)
22 (B)	Ground	Door mirror sensor (LH) leftward/rightward signal	Input	Door mirror LH pos	sition	Change between 0.6 (close to left edge) 3.4 (close to right edge)
23 (P)	Ground	Telescopic sensor signal	Input	Telescopic position	l	Change between 0.8 (close to top) 4.4 (close to bottom)

### < ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description		Conditi	on	Voltage (V)	А
+	_	Signal name	Input/ Output	Conditi	ON	(Approx.)	
24 (R)	Ground	Set switch signal	Input	Set switch	Press Other than above	5	В
25 (V)	Ground	Memory switch 2 signal	Input	Memory switch 2	Press Other than above	5	С
26 (P)	Ground	UART communication (RX)	Input	Ignition switch ON		10mSec/div 2V/div JMJIA0121ZZ	E F
27		Telescopic switch back-			Operate (backward)	0	
(G)	Ground	ward signal	Input	Telescopic switch	Other than above	5	G
		Door mirror motor (RH)			Operate (down- ward)	Battery voltage	Н
30	Ground	downward output	Output	Door mirror (RH)	Other than above	0	1
(SB)		Door mirror motor (RH)	'		Operate (rightward)	Battery voltage	
		rightward output			Other than above	0	ADI
31	0	Door mirror motor (LH)	0 1 1	D (111)	Operate (upward)	Battery voltage	K
(G)	Ground	upward output	Output	Door mirror (LH)	Other than above	0	
32	Cround	Door mirror motor (LH)	Output	Door mirror (LH)	Operate (leftward)	Battery voltage	L
(L)	Ground	leftward output	Output	Door mirror (LH)	Other than above	0	M
33 (W)	Ground	Sensor power supply	Input	_		5	
34 (V)	Ground	Power source (Fuse)	Input	_		Battery voltage	N
35	Ground	Tilt motor upward output	Output	Steering tilt	Operate (upward)	Battery voltage	0
(L)	Ground	Till motor upward output	Output	Steering tilt	Other than above	0	
36	Ground	Telescopic motor forward	Output	Steering telescop-	Operate (forward)	Battery voltage	Р
(GR)	Ground	output signal	Output	ic	Other than above	0	
39 (W)	Ground	Power source (C/B)	Input	_	•	Battery voltage	
40 (B)	Ground	Ground	_	_		0	

Revision: 2011 December ADP-203 2011 G Coupe

#### < ECU DIAGNOSIS INFORMATION >

	nal No. color)	Description		Condition	on.	Voltage (V)
+	_	Signal name	Input/ Output		JII	(Approx.)
41 (Y)	Ground	Sensor ground	_	_		0
42 (BG)	Ground	Tilt motor downward out-	Output	Steering tilt	Operate (down- ward)	Battery voltage
(66)		put			Other than above	0
44	Ground	Telescopic motor back-	Output	Steering telescop-	Operate (backward)	Battery voltage
(G)	Siound	ward output	Juipui	ic	Other than above	0
48 (B)	Ground	Ground		_		0

< ECU DIAGNOSIS INFORMATION > Wiring Diagram - AUTOMATIC DRIVE POSITIONER CONTROL SYSTEM -Α INFOID:0000000006952051 В C \*: This connector is not shown in "Harness Layout". AUTOMATIC DRIVE POSITIONER CONTROL UNIT (M51) (M52) D 38 37 36 Е A: With A/T A: With M/T F [= (<u>§</u> DOWN UP LEFT RIGHT G 42 38 Н 37 ADP CIRCUIT BREAKER (M62) 'CM TRANSMISSION CONTROL MODULE) A/T ASSEMBLY
(F51): < A > JOINT K BCM (BODY CONTROL MODULE)
(M118), (M128), (M128) DATA LINK CONNECTOR (M24) FUSE BLOCK (J/B) (M1) L **AUTOMATIC DRIVE POSITIONER** KEY SLOT DATA LINE M955 10A M SWITCH (B16) Ν

0

Ρ

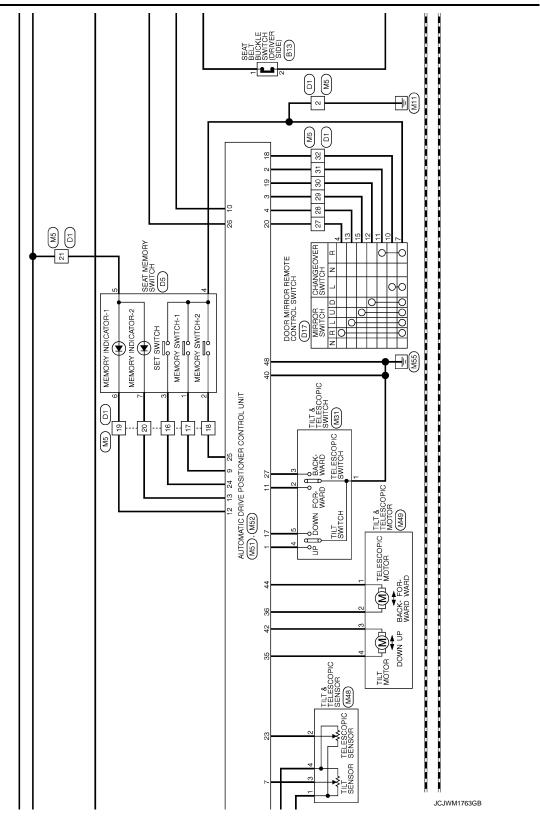
2010/10/07

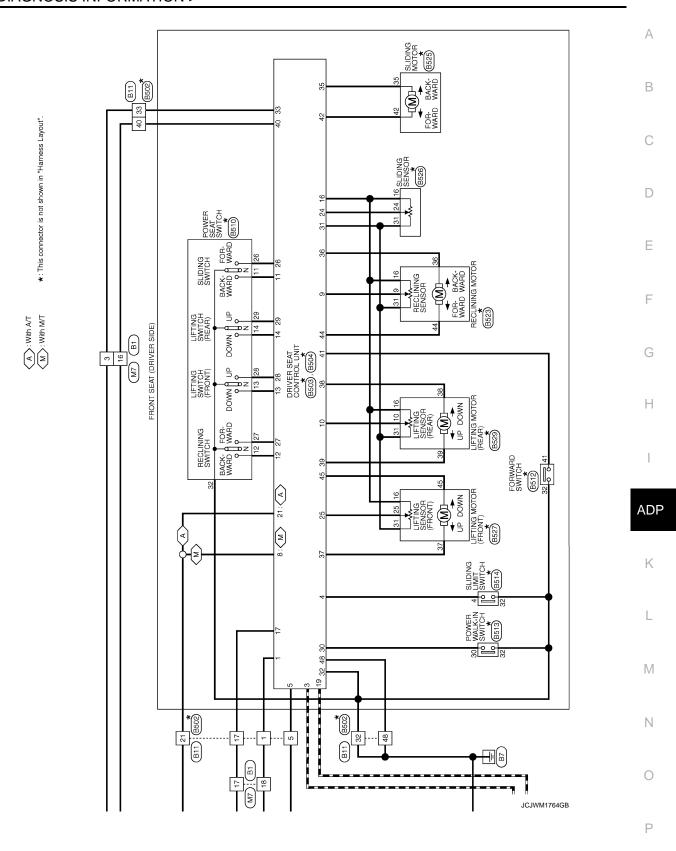
JCJWM1762GB

E106 Me

404 A

BATTERY





### < ECU DIAGNOSIS INFORMATION >

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Connector No. B1	28			67	GR	Ī	2 V -	
	90		Ī					
	61			Connector	П	3	Connector No. B502	П
	62			Connector		AT BELT BUCKLE SWITCH (DRIVER SIDE)		
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	88			2	В	1	3 R/Y -	
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1	91				- 1		17 Y/R –	7
1	92			Connector	١	4	V 61	1
	96			Connector		BKING BRAKE SWITCH	┪	1
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	09			Terminal	Color	Simal Name [Specification]		
_ ]	99	<b>*</b>		No.	of Wire	P		
		Commettor    Terminal   Terminal	100   100	Commetter No.   Commetter Type   Color   Col	Signal Name   Specification   Connector No.   Connector No.	Signal Name (Specification)   Connector Name Name Connector Name Connector Name Connector Name Connector Name Name Connector Name Connector Name Name Connector Name Name Name Name Name Name Name Name	Signal Name   Specification   Connector No.   Connector No.	10   10   10   10   10   10   10   10

JCJWM1765GB

### < ECU DIAGNOSIS INFORMATION >

Comparing the part of the Cost TOOKE   Cos	Signal Name [Specification]  Signal Name [Specification]	АВ
Author   Digital Positioner    8523 NSO6FW- 116 8525 81DING 8098-023		
ANTONATIC DRIVE POSITIONER   ANTONATIC DRIVE   ANTONATIC DRIVE   ANTONATIC DRIVERS		E
Commontant   Com	Signal Name [Specific	F
Commerce Name   Bigging Str. Control, Unit   Control		G
Commercer Name   BrivEn SEAT CONTROL UNIT   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commer	Communication of the second of	Н
Commercer Name   BrivEn SEAT CONTROL UNIT   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commercer Name   Commer	Ignal Name [Specification]  BAT (C/B)  BAT (C/B)  LIFTING MOTOR (DOWNWARD)  LIFTING MOTOR (LIPWARD)  LIFTING MOTOR (BACKWARD)  LIFTING MOTOR (BACKWARD)  LIFTING MOTOR (BACKWARD)  LIFTING MOTOR (BACKWARD)  LIFTING MOTOR (LIPWARD)  LIFTING MOTOR (L	ADP
AUTOMATIC DRIVE POSITIONER   Permission	S   S   S   S   S   S   S   S   S   S	ADI
Connector Name   BEGG		K
JCJWM1766GB		L
JCJWM1766GB	VE POSITIONER  AT CONTROL UNIT  BEIGN THE SECTION OF THE SECTION O	М
JCJWM1766GB	C D RI   BB03   BB04	N
JCJWM1766GB	COMA   Cotor Name   Cotor Nam	
	JC7MV	

Revision: 2011 December ADP-209 2011 G Coupe

#### < ECU DIAGNOSIS INFORMATION >

AUTOMATIC DRIVE POSITIONER	-		-		-
Connector No. B526	No. of	Color Signal Name [Specification]	39 BK		
	T	P/8 -	ľ	1	t
Connector Type 6098-0241	H	- 0	BR	- [With automatic drive positioner]	2 BR -
á	Н		44 BG - [W	<ul> <li>[Without automatic drive positioner]</li> </ul>	3 GR -
唐	38 T	\/\	47 L	1	4 B –
[] SH	39 R	R/B –	48 R	-	5 R
			49 SB	-	- BB 9
24 31 16		-	Н	1	d /
	Connector No.	. D1	$\dashv$	1	
	Connector Name	me WIRE TO WIRE	52 V	Ī	- 1
					Connector No. D17
Terminal Color Signal Name [Specification]	Connector Type	pe TH40FW-CS15	- N		Connector Name DOOR MIRROR REMOTE CONTROL SWITCH
	Œ		_		Connector Type TV16EBB
24 B	Į.		Connector Name DOOR M	DOOR MIRROR (DRIVER SIDE)	lector lype
ŀ		15 14 13 12 11 10 9 8 7 6 5 4 3 2 1	Connector Type TH12MW-NH	HZ.	· ·
ł	466	46 45 44 43 42 41 40 59 58 57 58 26 25 24 23 22 12 12 19 18 17 16 15 15 15 15 15 15 15 15 15 15 15 15 15	1		<u>)</u>
Γ	<u>נ</u> "		THY)		1 2
Connector No. B527			SH		8 9 10 11 12 13 14 15 16
Connector Name LIFTING MOTOR (FRONT)	L		2	67214	
Connector Type NSOREW-CS	No. of	Color Signal Name [Specification]	_	100	
1	t			9	Torminal
49	. 6	- 00			_
	╀	- as	Terminal Color		t
45 37	┝	_ ^		Signal Name [Specification]	7 B
31 25	8		4 L	1	- B
67 10 01	_		_	- [With automatic drive positioner]	H
	$\dashv$		4	<ul> <li>[Without automatic drive positioner]</li> </ul>	
	$\dashv$		6 GR	Ī	TG
Terminal Color Signal Name [Specification]	$\dashv$		+	ľ	ŋ
of Wire	+		+	1	W
+	+		+	ı	15 Y =
25 Y/B –	+	GR –	7	ı	
+	+	- SB	-	1	
+	+	BR -	12 V	Í	
45 L/R -	+	BG -			
	+		ſ		
	$\dashv$		Connector No. D5		
Connector No. B529	+	- ^	Connector Name SEAT ME	SEAT MEMORY SWITCH	
Connector Name   IETING MOTOR (BFAR)	┨		П		
┪	27 E	BR –	Connector Type A08FW		
Connector Type NS06FBR-CS	$\dashv$	M	4		
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JCJWM1767GB

### < ECU DIAGNOSIS INFORMATION >

FEI   RRUPG-DGY	АВ
Connector No.   F51	C
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15 P P P P P P P P P P P P P P P P P P P	G
THIZMM-NH	H I ADP
Connector No.   D33	К
WINTE  CSIS   L M	
Marie   Mari	N
18/0/0/12	О л1768GB

Revision: 2011 December ADP-211 2011 G Coupe

AUTOM	MAT	AUTOMATIC DRIVE POSITIONER	9	S		-	ę		
Connecto	O	M	2	200	1	4 ;	<u> </u>	ı	_
Connector Name	r Name	FUSE BLOCK (J/B)	02	4	ı	G g	ı ş	1	_
		014 MILOCOL	17	۶ ;	1	₽ ;	s 6	Į.	_
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		3A2A1A	53	g	1	30	æ	1	_
		9 A 7 A 6 A 5 A 4 A	90	SB	1	31	_	-	_
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	31	ΓC	1	32	<b>\</b>	-	_
			32	W	1	33	BG	-	_
			33	В	1	34	Μ	-	_
Terminal	Color	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	36	×	1	35	BR	1	_
No.	of Wire		37	GR		36	ď	_	_
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2A	g	-	39	В	-	38	ч	_	_
34	_	1	42	>	1	39	SB		_
44	Ь	1	43	٦	ı	40	5	-	_
2A	_	1	44	5	- [With automatic drive positioner]	41	>	-	
6A	Υ	-	44	٦	- [Without automatic drive positioner]	42	PT	_	
7.A	R	-	47	7	1	43	Ь	-	
8A	L	1	48	GR	1	44	В	- [With A/T]	
			49	SB	ı	44	ď	– [With M/T]	
			20	Ь	1	45	BG	_	
Connector No.		M5	51	LG	1	46	g	_	
Connector Name	Name	WIRE TO WIRE	52	>	1	47	٦	-	_
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Connector Type	r Type	TH40MW-CS15		ı		49	٦	1	_
1			Connector No.		M6	29	В	1	_
季			Connector Name		WIRE TO WIRE	99	<b>\</b>	1	
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	2		Connector Type	$\neg$	TH80MW-CS16-TM4	99	ď	I	
	272829	16 17 18 19 20 21 22 22 24 25 26 38 37 38 38 40 41 42 43 44 45 46 27 28 29 30 31 32 33 34 35 47 48 49 50 51 52 53 54 55	ą.			69	*		
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2	В	-				85	GR	-	
3	BG	-	Terminal	Color	Cinnel Manne Consideration	98	9	_	
*	۸	-	No.	of Wire	oignal Name Copecinication	87	ч	_	
8	SB	1	-	BG	1	88	В	-	
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12	7	1	9	ΡΠ	ı	93	٨	1	
13	W	1	7	м	1	92	>	1	
14	В	1	6	5	ı	96	œ	1	
15	W	-	10	W	-	97	GR	-	
16	В	1	-1	>	1	86	SHIELD		
17	BR	1	12	ч	-	66	>	-	
18	>	1	13	٦	ı	100	SB	_	

JCJWM1769GB

### < ECU DIAGNOSIS INFORMATION >

Signal Name [Specification]	A B
M48 TILT & TI TIKO4FW NSO4FW NSO4FW TILT & T	С
Commetter No.  Commetter Type  Terminal Color  No.  Commetter No.  Commetter No.  Commetter No.  Commetter No.  Commetter Type  Terminal Color  No.  Terminal Color  Terminal	D
ooffication]	Е
M24  DATA LINK CONNECTOR  BD16FW-P  9 10111213141516  1 2 3 4 5 6 7 8  M31  TILT & TELESCOPIC SWITCH  TK06FGY  Signal Name [Specification]  Signal Name [Specification]	F
1   1   1   1   1   1   1   1   1   1	G
Commetto Commetto  Terminal No.  14 14 16 14 16 14 16 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	Н
T	1
	ADP
1	K
100   100	L
Manual	M
WIRE TO WIRE TO WIRE THEOMW-CS16-TIM - With automa - [With out automa - IWith automa - IWith automa - IWith out - I	Ν
AUTOMAT Connector Name Connector Name Connector Types  Terminal Color No. of Wire  1 GR 2 P P 2 P P 4 4 V V 2 BR 2 BR 2 C C C C C C C C C C C C C C C C C C C	0
JCJWM1770GB	
	Р

Revision: 2011 December ADP-213 2011 G Coupe

#### < ECU DIAGNOSIS INFORMATION >

Connector No.   M67   Terminal   Color   Signal N   Connector Name   UNIFED METER AND A/C AMP   No. of Wire   Signal N   No. of Wire   Signal N   No. of Wire   No. of W	Connector Type   TH32FW-NH   2	Σmű	Terminal   Color   Signal Name   Specification   H.S.   Color   More   Signal Name   Specification   H.S.   Color   More   Color   More   Signal Name   Specification   H.S.   Color   More   More	46 Y EXHAUST G	53 W IGNITION POWER SUPPLY 4	55 B GROUND 7 SB	56 L GAN÷H 8 V ALL DOOR, FUEL LID LOCK OUTPUT 57 LG BRAKE FLUID LEVEL SWITCH 9 G DRIVER DOOR, FUEL LID UNLOCK OUTPUT	Y FUEL LEVEL SENSOR GROUND 11 R	59         GR         INTAKE SENSOR GROUND         13         B         GND           60         W         IN-VEHICLE SENSOR GROUND         14         W         PUSH-BUTTON IGNITION SWILL GND	B AMBIENT SENSOR GROUND 15 BG	NAL 18 BG	65         BG         ECV SIGNAL         19         V         INT ROOM LAMP CONT	69 P A/C LAN SIGNAL	ag B	Ь		catori Connector No. MI18	Connector Name   BCM (BODY CONTROL MODULE)	Connector Type M03FB-LC	1
Gornector No. M52 Connector Name AUTOMATIC DRIVE POSITIONER CONTROL UNIT	Connector Type NS16FW-CS	13 13 34 35 38 37 38 140 41 42 43 44 45 46 47	Terminal   Color   Signal Name   Specification   No. of Wire   Signal Name   Specification   No. of Wire   Powers Supply (SENSOR)   34	9 8	BG TELTIN	D 80		Connector No. M62	Connector Name CIRCUIT BREAKER	Connector Type M02FW-LC	医	S	<u>-</u>	2	]	Terminal Color	<u> </u>	- I		
AUTOMATIC DRIVE POSITIONER Jonnetor No. MS1 Jonnetor Name Automatic Brice Positioner Control Livit	TH32FW-NH	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 17 22 23 24 25 25 27 27 27 27 27 27 27 27 27 27 27 27 27	Signal Name [Specification] TILL SW (UsprARD) MIRROR SELECT SW (RH) MIRROR SW (USWARD) MIRROR SW (USWARD) MIRROR SW (USWARD)	MIRROR SENSOR (LH VERTICAL)	ADDRESS 1	TELESCOPIC SW (FRONTWARD)	IND 1 IND 2	MIRROR MOTOR (RH VERTICAL)	MIRROR MOTOR (RH HORIZONTAL) MIRROR MOTOR (LH COMMON)	TILT SW (DOWNWARD)	MIRROR SW (DOWNWARD)	MIRROR SW (RIGHTWARD)	MIRROR SENSOR (RH HORIZONTAL) MIRROR SENSOR (1 H HORIZONTAL)	TELESCOPIC SENSOR	SET SW	ADDRESS 2 RX (UART)	TELESCOPIC SW (BACKWARD)	MIRROR MOTOR (RH COMMON)	MIRROR MOTOR (LH HORIZONTAL)	
AUTOMAT Connector No.	Connector Type	H.S.	Color   Color	6 GR	. 6 S	Н	12 BG	14 W	15 BG 16 Y	Н	W 88	20 L	21 L	╀	24 R	25 V	Н	30 SB	╀	

JCJWM1771GB

### < ECU DIAGNOSIS INFORMATION >

					А
	ELECTOR		3 4 5 6 9 10 11 12	Signal Name [Specification]	В
Jo. M137		ype TH12FW-NH	N   N   N   N   N   N   N   N   N   N	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	С
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			101   12   13   14   15   15   15   15   15   15   15	pecification]	E
M124	WIRE TO WIRE	TH40MW-CS15	2   3   4   6   7   8   9   10   11   12   13   14   16   13   14   16   13   14   16   13   14   16   13   14   16   13   14   15   13   14   15   13   14   15   13   14   15   13   14   13   14   13   14   13   14   13   14   13   14   13   14   13   13	Signal Name (Specification)	F
Connector No.	e e	Connector Type Ti	Si Ling	Color   Colo	G
<u></u>	Ş	ő	修		Н
	BCM (BODY CONTROL MODULE)			Signal Name [Speedication]  RAIN SENSOR SERIAL LINK OPTICAL SENSOR CUTCH INTERLOCK SW STOP LAMP SW 1 DR DOOR NULCK SENSOR KEY SWITCH FIGH F B PASSENGER DOOR FULCK SENSOR FOURTH (SWITCH COMES SWITCH COMES SWITCH COMES SWITCH SECHER SENSOR ROWD SECURITY INDICATOR LAMP OOMES WINDOW SW COMM SHITT N.P SECHER SENSOR ROWD SECURITY INDICATOR LAMP OOMES SW OUTPUT 3 COMES SW OUTPUT 3 COMES SW OUTPUT 4 DRIVER DOOR SW REAR WINDOW DEFOCGER RELAY CONT	I
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or No.	ne ne	Connector Type TH		G       G	K
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AUTOMATIC DRIVE POSITIONER	BCM (BODY CONTROL MODULE)		88 88 99 99 77 75 77 77 77 77 77 77 77 77 77 77 77	Signal Name [Specification]  ROOM ANT 2+ PROSENGER DOOR ANT+ PROSENGER DOOR ANT+ DRIVER DOOR ANT+ DRIVER DOOR ANT+ ROOM ANT 1+ ROOM ANT 1- ROOM ANT 1+ ROOM ANT 1+ ROOM ANT 1- CAN+1 CAN+1 CAN+1 COMBI SW INPUT 3 ASCO CLUTCH SW [WINK ANT] COMBI SW [WINK ANT]	M
IC DRIVE	всм (вору сс	TH40FB-NH		PASS   PASS   PASSEM   IGN    N	
OMATI	e e	Connector Type	10 10 10 10 10 10 10 10 10 10 10 10 10 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
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				JCJWM1772GB	Р

Revision: 2011 December ADP-215 2011 G Coupe

#### MANUAL FUNCTION DOES NOT OPERATE

#### < SYMPTOM DIAGNOSIS >

## SYMPTOM DIAGNOSIS

# MANUAL FUNCTION DOES NOT OPERATE

ALL COMPONENT

**ALL COMPONENT: Description** 

INFOID:0000000006455177

All functions do not operate when manually operated.(power seat, tilt & telescopic, and door mirror.

**ALL COMPONENT: Diagnosis Procedure** 

INFOID:0000000006455178

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

Check driver seat control unit power supply and ground circuit.

Refer to ADP-64, "DRIVER SEAT CONTROL UNIT: Diagnosis Procedure".

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning 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-65, "AUTOMATIC DRIVE POSITIONER CONTROL UNIT: Diagnosis Procedure".

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning 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: Description**

INFOID:0000000006455179

Power seat does not operate when manually operated.

#### **POWER SEAT: Diagnosis Procedure**

INFOID:0000000006455180

# 1. CHECK POWER SEAT SWITCH GROUND CIRCUIT

Check power seat switch ground circuit.

Refer to ADP-95, "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.

#### STEERING POSITION FUNCTION DOES NOT OPERATE

### STEERING POSITION FUNCTION DOES NOT OPERATE: Description INFOID:000000006455181

Tilt & telescopic do not operate when manually operated.

< SYMPTOM DIAGNOSIS >

STEERING POSITION FUNCTION DOES NOT OPERATE: Diagno	osis Procedure
1. CHECK TILT & TELESCOPIC SWITCH GROUND CIRCUIT	
Check tilt & telescopic switch ground circuit.	
Refer to <u>ADP-96. "Diagnosis Procedure"</u> .  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.	
SEAT SLIDING	
SEAT SLIDING : Description	INFOID:000000006455183
Seat sliding alone does not operate when manually operated.	
SEAT SLIDING : Diagnosis Procedure	INFOID:000000006455184
	IIVI 012.000000000000
1.CHECK SLIDING MECHANISM	
<ul><li>Check for the following.</li><li>Mechanism deformation or pinched foreign materials.</li></ul>	
Interference with other parts because of poor installation.	
Is the inspection result normal?	
YES >> GO TO 2.  NO >> Repair or replace the malfunctioning parts.	
2.CHECK SLIDING SWITCH	
Check sliding switch.	
Refer to ADP-67, "Component Function Check".	
Is the inspection result normal?  YES >> GO TO 3.	
NO >> Repair or replace the malfunctioning parts.	
3.CHECK SLIDING MOTOR	
Check sliding motor.	
Refer to ADP-124. "Component Function Check".  Is the inspection result normal?	
YES >> GO TO 4.	
NO >> Repair or replace the malfunctioning 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 : Description	INFOID:000000006455185
Seat reclining only does not operate when manually operated.	

### < SYMPTOM DIAGNOSIS >

# SEAT RECLINING: Diagnosis Procedure

INFOID:0000000006455186

# 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 malfunctioning parts.

# 2.check reclining switch

Check reclining switch.

Refer to ADP-104, "Component Function Check".

# Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

# 3.CHECK RECLINING MOTOR

Check reclining motor.

Refer to ADP-126, "Component Function Check".

### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning 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): Description

INFOID:0000000006455187

Seat lifting (front) only does not operate when manually operated.

# SEAT LIFTING (FRONT): Diagnosis Procedure

INFOID:0000000006455188

# 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 malfunctioning parts.

# 2. CHECK LIFTING SWITCH (FRONT)

Check lifting switch (front).

Refer to ADP-71, "Component Function Check".

### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

# 3.CHECK LIFTING MOTOR (FRONT)

Check lifting motor (front).

Refer to ADP-128, "Component Function Check".

### Is the inspection result normal?

< SYMPTOM DIAGNOSIS >		
YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts.		Λ
NO >> Repair or replace the malfunctioning parts.  4.CONFIRM THE OPERATION		Α
Check the operation again.		
Is the result normal?		В
YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident". NO >> GO TO 1.		
NO >> GO TO 1. SEAT LIFTING (REAR)		С
SEAT LIFTING (REAR) : Description	INFOID:000000006455189	D
Seat lifting (rear) only does not operate when manually operated.		
SEAT LIFTING (REAR) : Diagnosis Procedure	INFOID:000000006455190	Е
1. CHECK LIFTING (REAR) MECHANISM		
Check for the following.  • Mechanism deformation or pinched foreign materials.		F
<ul> <li>Interference with other parts because of poor installation.</li> </ul>		
Is the inspection result normal?		G
YES >> GO TO 2.  NO >> Repair or replace the malfunctioning parts.		
2.CHECK LIFTING SWITCH (REAR)		Н
Check lifting switch (rear). Refer to ADP-73, "Component Function Check".		
Is the inspection result normal?		
YES >> GO TO 3.  NO >> Repair or replace the malfunctioning parts.		
3.CHECK LIFTING MOTOR (REAR)	A	ADP
Check lifting motor (rear).  Refer to ADP-130, "Component Function Check".		17
Is the inspection result normal?		K
YES >> GO TO 4. NO >> Repair or replace the malfunctioning parts.		
4.CONFIRM THE OPERATION		L
Check the operation again.	_	B. 4
Is the result normal?		M
YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".  NO >> GO TO 1.  STEERING TILT		Ν
STEERING TILT : Description	INFOID:000000006455191	
Steering tilt only does not operate when manually operated.		0
STEERING TILT : Diagnosis Procedure	INFOID:000000006455192	Р
1.CHECK STEERING TILT MECHANISM		1
<ul><li>Check for the following.</li><li>Mechanism deformation or pinched foreign materials.</li><li>Interference with other parts because of poor installation.</li></ul>		
Is the inspection result normal?		

Revision: 2011 December ADP-219 2011 G Coupe

YES >> GO TO 2.

#### < SYMPTOM DIAGNOSIS >

NO >> Repair or replace the malfunctioning parts.

# 2.check tilt switch

Check tilt switch.

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

### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

# 3. CHECK TILT MOTOR

Check tilt motor.

Refer to ADP-132, "Component Function Check".

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning 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 : Description

INFOID:0000000006455193

Steering telescopic only does not operate when manually operated.

# STEERING TELESCOPIC: Diagnosis Procedure

INFOID:0000000006455194

# 1. CHECK STEERING TELESCOPIC MECHANISM

Check for the following.

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

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

# 2. CHECK TELESCOPIC SWITCH

Check telescopic switch.

Refer to ADP-85, "Component Function Check".

#### Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

# 3. CHECK TELESCOPIC MOTOR

Check telescopic motor.

Refer to ADP-134, "Component Function Check".

#### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning 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

MANUAL FUNCTION DOES NOT OPERATE < SYMPTOM DIAGNOSIS >	
DOOR MIRROR: Description	5195
Door mirror does not operate when manually operated.	
DOOR MIRROR : Diagnosis Procedure	5196
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 malfunctioning parts.	
2.CHECK MIRROR SWITCH	
Check mirror switch.	_
Refer to ADP-90, "MIRROR SWITCH: Component Function Check".	
Is the inspection result normal?	
YES >> GO TO 3.  NO >> Repair or replace the malfunctioning parts.	
3. CHECK MIRROR MOTOR	
Check mirror motor.	_
Refer to ADP-136, "Component Function Check".	
<u>Is the inspection result normal?</u> YES >> GO TO 4.	
NO >> Repair or replace the malfunctioning 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.	

Revision: 2011 December ADP-221 2011 G Coupe

#### < SYMPTOM DIAGNOSIS >

# MEMORY FUNCTION DOES NOT OPERATE

### **ALL COMPONENT**

ALL COMPONENT : Description

INFOID:0000000006455197

All functions do not operate when memory operated. (power seat, tilt & telescopic, and door mirror)

ALL COMPONENT : Diagnosis Procedure

INFOID:0000000006455198

# 1. CHECK MANUAL OPERATION

Check manual operation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to ADP-216, "ALL COMPONENT : Diagnosis Procedure"

2.perform memory storing procedure

Perform memory storing procedure.

Refer to ADP-10, "MEMORY STORING: Special Repair Requirement".

Is the inspection result normal?

YES >> Memory function is normal.

NO >> GO TO 3.

3.CHECK SEAT MEMORY SWITCH

Check seat memory switch.

Refer to ADP-87, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace seat memory switch.

4. CHECK DETENTION SWITCH

Check detention switch.

Refer to ADP-97, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5. 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.

SEAT SLIDING

SEAT SLIDING : Description

INFOID:0000000006455199

Seat sliding only does not operate when memory operated.

**SEAT SLIDING: Diagnosis Procedure** 

INFOID:0000000006455200

# 1. CHECK MANUAL OPERATION

Check manual operation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to ADP-217, "SEAT SLIDING : Diagnosis Procedure"

 $\mathbf{2}.$ CHECK SLIDING SENSOR

Check sliding sensor.

Revision: 2011 December ADP-222 2011 G Coupe

< SYMPTOM DIAGNOSIS >	_
Refer to ADP-101, "Component Function Check".	_
Is the inspection result normal?	Α
YES >> GO TO 3.  NO >> Repair or replace the malfunctioning parts.	
3.CONFIRM THE OPERATION	В
Check the operation again.	=
Is the result normal?	С
YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".  NO >> GO TO 1.	
NO >> GO TO 1.  SEAT RECLINING	D
	D
SEAT RECLINING: Description	
Seat reclining only does not operate when memory operated.	Е
SEAT RECLINING : Diagnosis Procedure	)2
1. CHECK MANUAL OPERATION	F
Check manual operation.	_
Is the inspection result normal?	G
YES >> GO TO 2.  NO >> Refer to ADP-218, "SEAT RECLINING: Diagnosis Procedure"	
2. CHECK RECLINING SENSOR	Н
Check reclining sensor.	_
Refer to ADP-104, "Component Function Check".	I
Is the inspection result normal? YES >> GO TO 3.	
NO >> Repair or replace the malfunctioning parts.	ADP
3.CONFIRM THE OPERATION	ADF
Check the operation again.	=
Is the result normal?	K
YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".  NO >> GO TO 1.	
SEAT LIFTING (FRONT)	L
SEAT LIFTING (FRONT): Description	03
Seat lifting (front) only does not operate when memory operated.	M
SEAT LIFTING (FRONT): Diagnosis Procedure	04 N
1. CHECK MANUAL OPERATION	_
Check manual operation.	0
Is the inspection result normal? YES >> GO TO 2.	
NO >> Refer to ADP-218, "SEAT LIFTING (FRONT) : Diagnosis Procedure"	
2.CHECK LIFTING SENSOR (FRONT)	Р
Check lifting sensor (front).	_
Refer to ADP-107, "Component Function Check".	
Is the inspection result normal? YES >> GO TO 3.	
NO >> Repair or replace the malfunctioning parts.	

#### < SYMPTOM DIAGNOSIS >

# 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): Description

INFOID:0000000006455205

Seat lifting (rear) only does not operate when memory operated.

SEAT LIFTING (REAR) : Diagnosis Procedure

INFOID:0000000006455206

# 1. CHECK MANUAL OPERATION

Check manual operation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to ADP-219, "SEAT LIFTING (REAR) : Diagnosis Procedure"

2.CHECK LIFTING SENSOR (REAR)

Check lifting sensor (rear).

Refer to ADP-110, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning 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.

STEERING TELESCOPIC

STEERING TELESCOPIC : Description

INFOID:0000000006455207

INFOID:0000000006455208

Steering telescopic only does not operate when memory operated.

STEERING TELESCOPIC: Diagnosis Procedure

1. CHECK MANUAL OPERATION

Check manual operation.

Is the inspection result normal?

YES >> GO TO 2.

NO >> Refer to ADP-220, "STEERING TELESCOPIC : Diagnosis Procedure"

2.CHECK TELESCOPIC SENSOR

Check steering telescopic sensor.

Refer to ADP-116, "Component Function Check".

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CONFIRM THE OPERATION

Check the operation again.

Is the result normal?

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

Revision: 2011 December ADP-224 2011 G Coupe

< SYMPTOM DIAGNOSIS >	
NO >> GO TO 1. STEERING TILT	А
STEERING TILT : Description	INFOID:0000000006455209
Steering tilt only does not operate when memory operated.	В
STEERING TILT : Diagnosis Procedure	INFOID:0000000006455210
1.CHECK MANUAL OPERATION	
Check manual operation.  Is the inspection result normal?	D
YES >> GO TO 2.	
NO >> Refer to <u>ADP-219</u> , " <u>STEERING TILT</u> : <u>Diagnosis Procedure</u> "  2.CHECK TILT SENSOR	Е
Check steering tilt sensor.	
Refer to ADP-113, "Component Function Check".	F
Is the inspection result normal?  YES >> GO TO 3.	
NO >> Repair or replace the malfunctioning parts.	G
3.CONFIRM THE OPERATION	
Check the operation again.  Is the result normal?	Н
YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident".	
NO >> GO TO 1.  DOOR MIRROR	1
DOOR MIRROR : Description	
·	INFOID:0000000006455211
Door mirror does not operate when memory operated.  DOOR MIRROR: Diagnosis Procedure	WED/D 000000000455040
,	INFOID:0000000006455212
1.CHECK MANUAL OPERATION Check manual eneration	
Check manual operation. <u>Is the inspection result normal?</u>	L
YES >> GO TO 2. NO >> Refer to ADP-221. "DOOR MIRROR : Diagnosis Procedure"	
NO >> Refer to ADP-221, "DOOR MIRROR: Diagnosis Procedure"  2.CHECK MIRROR SENSOR	M
Check mirror sensor.	
<ul> <li>Refer to <u>ADP-119</u>, "<u>DRIVER SIDE</u>: <u>Component Function Check"</u>. (Driver side)</li> <li>Refer to <u>ADP-121</u>, "<u>PASSENGER SIDE</u>: <u>Component Function Check"</u>. (Passenger side)</li> </ul>	N
Is the inspection result normal?	
YES >> GO TO 3.  NO >> Repair or replace the malfunctioning parts.	0
3.CONFIRM THE OPERATION	-
Check the operation again.	—— Р
<u>Is the result normal?</u> YES >> Check intermittent incident. Refer to <u>GI-43</u> , " <u>Intermittent Incident</u> ".	
NO >> GO TO 1.	

### MEMORY INDICATE DOES NOT ILLUMINATE

# < SYMPTOM DIAGNOSIS >

# MEMORY INDICATE DOES NOT ILLUMINATE

# Diagnosis Procedure

INFOID:0000000006455213

# 1. CHECK MEMORY INDICATOR

Check memory indicator.

Refer to ADP-139, "Component Function Check".

### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

# 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.

# SEAT SYNCHRONIZATION FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

SEAT SYNCHRONIZATION FUNCTION DOES NOT OPERATE	
Diagnosis Procedure	Α
1. CHECK SYSTEM SETTING	В
Check system setting. Refer to ADP-11, "SYSTEM SETTING: Special Repair Requirement".	
Is the inspection result normal?	С
YES >> Synchronization function is normal. NO >> GO TO 2.	
Z.CHECK ALL FUNCTIONS MAMUAL OPERATION	D
Check all functions manual operation. <u>Is the inspection result normal?</u>	Е
YES >> GO TO 3. NO >> Refer to ADP-216, "ALL COMPONENT : Diagnosis Procedure".	_
	F
Check the operation again.	
<u>Is the result normal?</u> YES >> Check intermittent incident. Refer to <u>GI-43</u> , " <u>Intermittent Incident</u> ".	G
NO >> GO TO 1.	
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F	Ρ

### POWER WALK-IN FUNCTION DOES NOT OPERATE

#### < SYMPTOM DIAGNOSIS >

# POWER WALK-IN FUNCTION DOES NOT OPERATE

# Diagnosis Procedure

INFOID:0000000006455215

# 1. CHECK POWER WALK-IN FUNCTION

Check power walk-in function.

Refer to ADP-39, "POWER WALK-IN FUNCTION: System Description".

#### Is the inspection result normal?

YES >> Power walk-in function is OK.

NO >> GO TO 2.

# 2.perform initialization procedure

1. Perform initialization procedure.

Refer to ADP-10, "SYSTEM INITIALIZATION: Special Repair Requirement".

2. Check power walk-in function.

Refer to ADP-39, "POWER WALK-IN FUNCTION: System Description".

#### Is the inspection result normal?

YES >> Power walk-in function is normal.

NO >> GO TO 3.

# ${f 3.}$ CHECK POWER WALK-IN SWITCH

Check power walk-in switch.

Refer to ADP-81, "Component Function Check".

### Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

# f 4.CHECK SEAT BELT BUCKLE SWITCH

Check seat belt buckle switch.

Refer to ADP-77, "Component Function Check".

#### Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

# 5. CHECK FORWARD SWITCH

Check forward switch.

Refer to ADP-75, "Component Function Check".

#### Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

# 6.CHECK SLIDING LIMIT SWITCH

Check sliding limit switch.

Refer to ADP-79, "Component Function Check".

# Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace the malfunctioning parts.

#### .CHECK DRIVER SIDE DOOR SWITCH

Check driver side door switch.

Refer to DLK-63, "Component Function Check"

#### Is the inspection result normal?

YES >> GO TO 8.

NO >> Repair or replace the malfunctioning parts.

### 8.CONFIRM THE OPERATION

Check the operation again.

POWER WALK-IN FUNCTION DOES NOT OPERATE < SYMPTOM DIAGNOSIS > Refer to ADP-39, "POWER WALK-IN FUNCTION: System Description". Α Is the result normal? YES >> Check intermittent incident. Refer to GI-43, "Intermittent Incident". >> GO TO 1. NO В С D Е F G Н

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### INTELLIGENT KEY INTERLOCK FUNCTION DOES NOT OPERATE

# < SYMPTOM DIAGNOSIS >

# INTELLIGENT KEY INTERLOCK FUNCTION DOES NOT OPERATE

# Diagnosis Procedure

INFOID:0000000006455216

# 1. CHECK DOOR LOCK FUNCTION

Check door lock function.

Refer to <u>DLK-7</u>, "Work Flow".

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

# 2. PERFORM MEMORY STORING PROCEDURE

1. Perform memory storing procedure.

Refer to ADP-10, "MEMORY STORING: Special Repair Requirement".

2. Check Intelligent Key interlock function.

Refer to ADP-34, "INTELLIGENT KEY INTERLOCK FUNCTION: System Description".

### Is the inspection result normal?

YES >> Intelligent Key inter lock function is normal.

NO >> GO TO 1.

# **NORMAL OPERATING CONDITION**

# < SYMPTOM DIAGNOSIS >

# NORMAL OPERATING CONDITION

**Description**INFOID:00000000006455217

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

Symptom	Cause	Action to take	Reference page
Seat synchronization function does not operate.		Perform the memory function or drive the vehicle at more than 7km/h (4 MPH).	<u>ADP-24</u>
	Seat adjustment value has exceed any of the values below.  Seat sliding: 76 mm Seat reclining: 9.1 degrees Seat lifting (rear): 20 mm	_	_
Side support or lumbar support does not perform memory opera-	es not perform memory opera- are controlled independently with no link —	Side support: SE-23	
tion.			Lumbar support: <u>SE-26</u>
Memory function, power walk-in function, seat synchronization function, or Intelligent Key interlock function does not operate.	The operating conditions are not fulfilled	Fulfill the operation conditions.	Memory function: ADP-29
			Power walk-in function: <u>ADP-39</u>
			Seat synchronization function: ADP-24
			Intelligent Key interlock function: <u>ADP-34</u>

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# **PRECAUTION**

# **PRECAUTIONS**

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

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

#### **WARNING:**

Always observe the following items for preventing accidental activation.

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

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

#### **WARNING:**

Always observe the following items for preventing accidental activation.

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

INFOID:0000000006455219

# Precaution for Battery Service

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

Service INFOID:0000000006455220

- When removing or installing various parts, place a cloth or padding onto the vehicle body to prevent scratches.
- Handle trim, molding, instruments, grille, etc. carefully during removing or installing. Be careful not to oil or damage them.
- Apply sealing compound where necessary when installing parts.
- When applying sealing compound, be careful that the sealing compound does not protrude from parts.
- When replacing any metal parts (for example body outer panel, members, etc.), be sure to take rust prevention measures.

Work

- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and keep them.

#### **PRECAUTIONS**

#### < PRECAUTION >

- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After re-installation is completed, be sure to check that each part works normally.
- Follow the steps below to clean components.
- Water soluble foul: Dip a soft cloth into lukewarm water, and wring the water out of the cloth to wipe the fouled area.
  - Then rub with a soft and dry cloth.
- Oily foul: Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%), and wipe the fouled area.
  - Then dip a cloth into fresh water, and wring the water out of the cloth to wipe the detergent off. Then rub with a soft and dry cloth.
- Do not use organic solvent such as thinner, benzene, alcohol, and gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

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**ADP-233** Revision: 2011 December 2011 G Coupe

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# **DRIVER SEAT CONTROL UNIT**

< REMOVAL AND INSTALLATION >

# REMOVAL AND INSTALLATION

# DRIVER SEAT CONTROL UNIT

Exploded View

Refer to SE-188, "Exploded View".

Removal and Installation

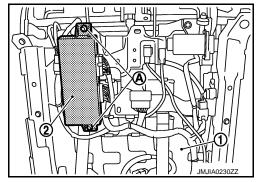
#### INFOID:0000000006455223

#### **REMOVAL**

#### **CAUTION:**

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

- 1. Remove driver seat (1). Refer to <u>SE-191, "Removal and Installation"</u>.
- 2. Remove mounting bolts (A).
- 3. Remove driver seat control unit (2).



#### **INSTALLATION**

Install in reverse order of removal.

#### **CAUTION:**

Be sure to clump the harness to the right place.

#### NOTE:

After installing driver seat, perform additional service when replacing control unit. Refer to <u>ADP-9</u>, "ADDI-TIONAL SERVICE WHEN REPLACING CONTROL UNIT: Special Repair Requirement".

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

< REMOVAL AND INSTALLATION >

# AUTOMATIC DRIVE POSITIONER CONTROL UNIT

Exploded View

Refer to IP-12, "A/T MODELS: Exploded View" (A/T models) or IP-23, "M/T MODELS: Exploded View" (M/T models).

### Removal and Installation

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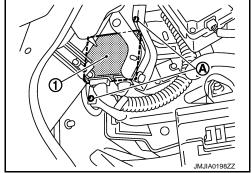
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# **REMOVAL**

#### **CAUTION:**

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

- Remove instrument driver lower panel. Refer to <u>IP-13, "A/T MODELS: Removal and Installation"</u> (A/T models) or <u>IP-24, "M/T MODELS: Removal and Installation"</u> (M/T models).
- 2. Remove screws (A).
- 3. Remove automatic drive positioner control unit (1).



### **INSTALLATION**

Install in reverse order of removal.

#### **CAUTION:**

Be sure to clump the harness to the right place.

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Revision: 2011 December ADP-235 2011 G Coupe

# **SEAT MEMORY SWITCH**

### < REMOVAL AND INSTALLATION >

# **SEAT MEMORY SWITCH**

Exploded View

Refer to INT-12, "Exploded View"

Removal and Installation

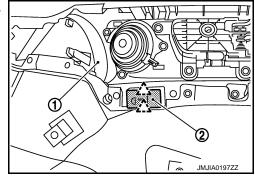
### **REMOVAL**

#### **CAUTION:**

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

- Remove front door finisher (1). Refer to <u>INT-12</u>, "Removal and <u>Installation"</u>.
- 2. Press pawls and remove seat memory switch (2) from front door finisher (1).





#### **INSTALLATION**

Install in reverse order of removal.

#### **CAUTION:**

Be sure to clump the harness to the right place.

### **POWER SEAT SWITCH**

### < REMOVAL AND INSTALLATION >

# POWER SEAT SWITCH

Exploded View

Refer to SE-188, "Exploded View".

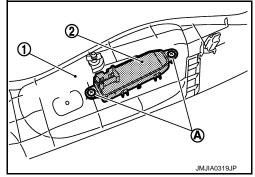
Removal and Installation

### **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-191</u>, <u>"Removal and Installation"</u>.
- 2. Remove screws (A).
- 3. Remove power seat switch (2) from seat cushion outer finisher (1).



#### **INSTALLATION**

Install in reverse order of removal.

#### **CAUTION:**

Be sure to clump the harness to the right place.

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Revision: 2011 December ADP-237 2011 G Coupe

### SIDE SUPPORT SWITCH

### < REMOVAL AND INSTALLATION >

# SIDE SUPPORT SWITCH

Exploded View

Refer to SE-188, "Exploded View"

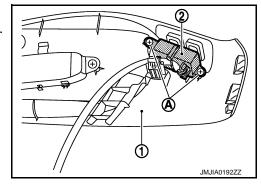
Removal and Installation

### **REMOVAL**

#### **CAUTION:**

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

- 1. Remove seat cushion outer finisher (1). Refer to SE-191, "Removal and Installation"
- 2. Remove screws (A).
- 3. Remove side support switch (2) from seat cushion outer finisher.



#### **INSTALLATION**

Install in reverse order of removal.

#### **CAUTION:**

Be sure to clump the harness to the right place.

# TILT&TELESCOPIC SWITCH

### < REMOVAL AND INSTALLATION >

# TILT&TELESCOPIC SWITCH

Exploded View

Refer to <u>IP-12, "A/T MODELS : Exploded View"</u> (A/T models) or <u>IP-23, "M/T MODELS : Exploded View"</u> (M/T models).

# Removal and Installation

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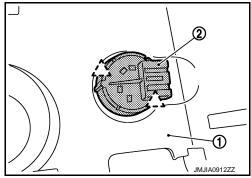
### **REMOVAL**

#### **CAUTION:**

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

- 1. Remove steering column mask (1). Refer to <u>IP-13</u>, "A/T <u>MODELS</u>: <u>Removal and Installation"</u> (A/T models) or <u>IP-24</u>, "M/T <u>MODELS</u>: <u>Removal and Installation"</u> (M/T models).
- 2. Press pawls and remove tilt & telescopic switch (2) from steering column mask (1).





### **INSTALLATION**

Install in reverse order of removal.

#### **CAUTION:**

Be sure to clump the harness to the right place.

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