

SECTION **DLK**
DOOR & LOCK

A
B
C

CONTENTS

D
E

WITH INTELLIGENT KEY SYSTEM	System Diagram	22	F
	System Description	22	
PRECAUTION	SYSTEM (INTELLIGENT KEY SYSTEM)	24	G
PRECAUTIONS	INTELLIGENT KEY SYSTEM	24	H
Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"	INTELLIGENT KEY SYSTEM : System Description	24	
Procedure without Cowl Top Cover	DOOR LOCK FUNCTION	25	I
Precaution for Servicing Doors and Locks	DOOR LOCK FUNCTION : System Description	25	
PREPARATION	TRUNK OPEN FUNCTION	27	J
PREPARATION	TRUNK OPEN FUNCTION : System Description.....	27	
Special Service Tools	REMOTE KEYLESS ENTRY FUNCTION	28	
Commercial Service Tools	REMOTE KEYLESS ENTRY FUNCTION : System Description	28	
CLIP LIST	KEY REMINDER FUNCTION	30	L
Descriptions for Clips	KEY REMINDER FUNCTION : System Description	30	
SYSTEM DESCRIPTION	WARNING FUNCTION	31	M
COMPONENT PARTS	WARNING FUNCTION : System Description	31	
POWER DOOR LOCK SYSTEM	SYSTEM (TRUNK LID OPENER SYSTEM)	34	N
POWER DOOR LOCK SYSTEM :	System Diagram	34	
Component Parts Location	System Description	34	
POWER DOOR LOCK SYSTEM :	SYSTEM (INTEGRATED HOMELINK TRANSMITTER)	35	O
Component Description	System Description	35	
INTELLIGENT KEY SYSTEM	DIAGNOSIS SYSTEM (BCM)	36	P
INTELLIGENT KEY SYSTEM : Component Parts Location	COMMON ITEM	36	
INTELLIGENT KEY SYSTEM :	COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)	36	
Component Description	DOOR LOCK	37	
TRUNK LID OPENER SYSTEM	DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)	37	
TRUNK LID OPENER SYSTEM :			
Component Parts Location			
TRUNK LID OPENER SYSTEM :			
Component Description			
SYSTEM (POWER DOOR LOCK SYSTEM)			

DLK

INTELLIGENT KEY	37	DTC Logic	90
INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)	37	Diagnosis Procedure	90
TRUNK	40	POWER SUPPLY AND GROUND CIRCUIT	93
TRUNK : CONSULT Function (BCM - TRUNK)	40	Diagnosis Procedure	93
ECU DIAGNOSIS INFORMATION	41	COMBINATION METER BUZZER	94
BCM	41	Component Function Check	94
List of ECU Reference	41	Diagnosis Procedure	94
WIRING DIAGRAM	42	DOOR LOCK ACTUATOR	95
POWER DOOR LOCK SYSTEM	42	DRIVER SIDE	95
Wiring Diagram	42	DRIVER SIDE : Component Function Check	95
INTELLIGENT KEY SYSTEM	50	DRIVER SIDE : Diagnosis Procedure	95
Wiring Diagram	50	PASSENGER SIDE	96
TRUNK LID OPENER	64	PASSENGER SIDE :	
Wiring Diagram	64	Component Function Check	96
HOMELINK UNIVERSAL TRANSCEIVER	68	PASSENGER SIDE : Diagnosis Procedure	96
Wiring Diagram	68	REAR LH	97
BASIC INSPECTION	70	REAR LH : Component Function Check	97
DIAGNOSIS AND REPAIR WORK FLOW	70	REAR LH : Diagnosis Procedure	97
Work Flow	70	REAR RH	98
DTC/CIRCUIT DIAGNOSIS	73	REAR RH : Component Function Check	98
U1000 CAN COMM CIRCUIT	73	REAR RH : Diagnosis Procedure	98
Description	73	DOOR LOCK AND UNLOCK SWITCH	100
DTC Logic	73	Component Function Check	100
Diagnosis Procedure	73	Diagnosis Procedure	100
U1010 CONTROL UNIT (CAN)	74	Component Inspection	101
DTC Logic	74	UNLOCK SENSOR	103
Diagnosis Procedure	74	Component Function Check	103
B2621 INSIDE ANTENNA	75	Diagnosis Procedure	103
DTC Logic	75	Component Inspection	104
Diagnosis Procedure	75	KEY CYLINDER SWITCH	105
B2622 INSIDE ANTENNA	78	Description	105
DTC Logic	78	Component Function Check	105
Diagnosis Procedure	78	Diagnosis Procedure	105
B2623 INSIDE ANTENNA	81	Component Inspection	106
DTC Logic	81	DOOR REQUEST SWITCH	107
Diagnosis Procedure	81	Component Function Check	107
B2626 OUTSIDE ANTENNA	84	Diagnosis Procedure	107
DTC Logic	84	Component Inspection	108
Diagnosis Procedure	84	DOOR SWITCH	109
B2627 OUTSIDE ANTENNA	87	Component Function Check	109
DTC Logic	87	Diagnosis Procedure	109
Diagnosis Procedure	87	Component Inspection	110
B2628 OUTSIDE ANTENNA	90	HAZARD FUNCTION	112
		Component Function Check	112
		Diagnosis Procedure	112
		INTELLIGENT KEY	113
		Component Function Check	113
		Diagnosis Procedure	113

KEY WARNING LAMP	114	ALL DOOR REQUEST SWITCHES : Diagnosis Procedure	129	A
Component Function Check	114	DRIVER SIDE DOOR REQUEST SWITCH	129	B
Diagnosis Procedure	114	DRIVER SIDE DOOR REQUEST SWITCH : Description	130	
REMOTE KEYLESS ENTRY RECEIVER	115	DRIVER SIDE DOOR REQUEST SWITCH : Diagnosis Procedure	130	C
Component Function Check	115	PASSENGER SIDE DOOR REQUEST SWITCH ...	130	D
Diagnosis Procedure	115	PASSENGER SIDE DOOR REQUEST SWITCH : Description	130	
SHIFT P WARNING LAMP	117	PASSENGER SIDE DOOR REQUEST SWITCH : Diagnosis Procedure	130	E
Component Function Check	117	DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY	131	F
Diagnosis Procedure	117	Diagnosis Procedure	131	
TRUNK LID OPENER ACTUATOR	118	TRUNK LID DOES NOT OPEN	132	G
Component Function Check	118	TRUNK LID OPENER SWITCH	132	H
Diagnosis Procedure	118	TRUNK LID OPENER SWITCH : Description	132	
TRUNK LID OPENER SWITCH	120	TRUNK LID OPENER SWITCH : Diagnosis Procedure	132	I
Component Function Check	120	INTELLIGENT KEY	132	J
Diagnosis Procedure	120	INTELLIGENT KEY : Description	132	
Component Inspection	121	INTELLIGENT KEY : Diagnosis Procedure	132	
TRUNK LAMP SWITCH	122	IGNITION POSITION WARNING FUNCTION DOES NOT OPERATE	134	
Description	122	Diagnosis Procedure	134	
Component Function Check	122	AUTO DOOR LOCK OPERATION DOES NOT OPERATE	135	
Diagnosis Procedure	122	Diagnosis Procedure	135	
Component Inspection	123	VEHICLE SPEED SENSING AUTO LOCK OPERATION DOES NOT OPERATE	136	
SYMPTOM DIAGNOSIS	125	Diagnosis Procedure	136	
DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH	125	IGN OFF INTERLOCK DOOR UNLOCK FUNCTION DOES NOT OPERATE	137	
ALL DOOR	125	Diagnosis Procedure	137	
ALL DOOR : Description	125	HAZARD AND BUZZER REMINDER DOES NOT OPERATE	138	
ALL DOOR : Diagnosis Procedure	125	Diagnosis Procedure	138	
DRIVER SIDE	125	KEY REMINDER FUNCTION DOES NOT OPERATE	139	
DRIVER SIDE : Description	125	Diagnosis Procedure	139	
DRIVER SIDE : Diagnosis Procedure	125	OFF POSITION WARNING DOES NOT OPERATE	140	
PASSENGER SIDE	125	Diagnosis Procedure	140	
PASSENGER SIDE : Description	126	P POSITION WARNING DOES NOT OPERATE	141	
PASSENGER SIDE : Diagnosis Procedure	126	Diagnosis Procedure	141	
REAR LH	126			
REAR LH : Description	126			
REAR LH : Diagnosis Procedure	126			
REAR RH	126			
REAR RH : Description	126			
REAR RH : Diagnosis Procedure	126			
DOOR DOES NOT LOCK/UNLOCK WITH DRIVER SIDE DOOR LOCK KNOB OR DOOR KEY CYLINDER	128			
Diagnosis Procedure	128			
DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH	129			
ALL DOOR REQUEST SWITCHES	129			
ALL DOOR REQUEST SWITCHES : Description	129			

DLK

ACC WARNING DOES NOT OPERATE	143	DOOR HINGE	172
Diagnosis Procedure	143	DOOR HINGE : Removal and Installation	172
TAKE AWAY WARNING DOES NOT OPERATE	144	DOOR CHECK LINK	173
Diagnosis Procedure	144	DOOR CHECK LINK : Removal and Installation	173
INTELLIGENT KEY LOW BATTERY WARNING DOES NOT OPERATE	146	REAR DOOR	175
Diagnosis Procedure	146	DOOR ASSEMBLY	175
DOOR LOCK OPERATION WARNING DOES NOT OPERATE	147	DOOR ASSEMBLY : Removal and Installation	175
Diagnosis Procedure	147	DOOR ASSEMBLY : Adjustment	176
KEY ID WARNING DOES NOT OPERATE	148	DOOR HINGE	178
Diagnosis Procedure	148	DOOR HINGE : Removal and Installation	178
PANIC ALARM FUNCTION DOES NOT OPERATE	149	DOOR CHECK LINK	178
Diagnosis Procedure	149	DOOR CHECK LINK : Removal and Installation	178
SQUEAK AND RATTLE TROUBLE DIAGNOSES	150	DOOR HANDLE	180
Work Flow	150	FRONT DOOR HANDLE	180
Generic Squeak and Rattle Troubleshooting	151	FRONT DOOR HANDLE : Exploded View	180
Diagnostic Worksheet	154	FRONT DOOR HANDLE : Removal and Installation - Inside Handle	180
REMOVAL AND INSTALLATION	156	FRONT DOOR HANDLE : Removal and Installation - Outside Handle	180
HOOD	156	REAR DOOR HANDLE	182
HOOD ASSEMBLY	156	REAR DOOR HANDLE : Exploded View	183
HOOD ASSEMBLY : Exploded View	156	REAR DOOR HANDLE : Removal and Installation - Inside Handle	183
HOOD ASSEMBLY : Removal and Installation	156	REAR DOOR HANDLE : Removal and Installation - Outside Handle	183
HOOD ASSEMBLY : Adjustment	157	DOOR LOCK	186
HOOD HINGE	159	FRONT DOOR LOCK	186
HOOD HINGE : Removal and Installation	159	FRONT DOOR LOCK : Exploded View	186
HOOD SUPPORT ROD	160	FRONT DOOR LOCK : Removal and Installation	186
HOOD SUPPORT ROD : Removal and Installation	160	REAR DOOR LOCK	187
HOOD LOCK CONTROL	160	REAR DOOR LOCK : Exploded View	188
HOOD LOCK CONTROL : Exploded View	161	REAR DOOR LOCK : Removal and Installation	188
HOOD LOCK CONTROL : Removal and Installation	161	TRUNK LID	190
RADIATOR CORE SUPPORT	164	TRUNK LID ASSEMBLY	190
Exploded View	164	TRUNK LID ASSEMBLY : Exploded View	190
Removal and Installation	164	TRUNK LID ASSEMBLY : Removal and Installation	190
FRONT FENDER	166	TRUNK LID ASSEMBLY : Adjustment	192
Exploded View	166	TRUNK LID HINGE	193
Removal and Installation	166	TRUNK LID HINGE : Removal and Installation	193
Adjustment	167	TORSION BAR	194
FRONT DOOR	169	TORSION BAR : Removal and Installation	194
DOOR ASSEMBLY	169	TRUNK LID LOCK	194
DOOR ASSEMBLY : Removal and Installation	169	TRUNK LID LOCK : Removal and Installation	194
DOOR ASSEMBLY : Adjustment	171	EMERGENCY LEVER	195
		EMERGENCY LEVER : Removal and Installation	195

TRUNK LID STRIKER	195
TRUNK LID STRIKER : Removal and Installation.	195
FUEL FILLER LID OPENER	197
Exploded View	197
FUEL FILLER LID	197
FUEL FILLER LID : Removal and Installation	197
FUEL FILLER OPENER CABLE	198
FUEL FILLER OPENER CABLE : Removal and Installation	198
FUEL FILLER LID LOCK	199
FUEL FILLER LID LOCK : Removal and Installation	199
DOOR SWITCH	201
Removal and Installation	201
INSIDE KEY ANTENNA	202
CONSOLE	202
CONSOLE : Removal and Installation	202
LUGGAGE ROOM	202
LUGGAGE ROOM : Removal and Installation	202
INSTRUMENT CENTER	202
INSTRUMENT CENTER : Removal and Installation	202
OUTSIDE KEY ANTENNA	203
DRIVER SIDE	203
DRIVER SIDE : Removal and Installation	203
PASSENGER SIDE	203
PASSENGER SIDE : Removal and Installation	203
REAR BUMPER	203
REAR BUMPER : Removal and Installation	203
DOOR REQUEST SWITCH	204
DRIVER SIDE	204
DRIVER SIDE : Removal and Installation	204
PASSENGER SIDE	204
PASSENGER SIDE : Removal and Installation	204
TRUNK LID FINISHER	204
TRUNK LID FINISHER : Removal and Installation.	204
INTELLIGENT KEY WARNING BUZZER	205
Removal and Installation	205
REMOTE KEYLESS ENTRY RECEIVER	206
Removal and Installation	206
INTELLIGENT KEY BATTERY	207
Removal and Installation	207
TRUNK LID OPENER SWITCH	208
Removal and Installation	208

WITHOUT INTELLIGENT KEY SYSTEM

PRECAUTION	209
PRECAUTIONS	209
Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"	209
Procedure without Cowl Top Cover	209
Precaution for Servicing Doors and Locks	209
PREPARATION	211
PREPARATION	211
Special Service Tools	211
Commercial Service Tools	212
CLIP LIST	213
Descriptions for Clips	213
SYSTEM DESCRIPTION	217
COMPONENT PARTS	217
AUTOMATIC DOOR LOCK/UNLOCK FUNCTION.	217
AUTOMATIC DOOR LOCK/UNLOCK FUNCTION : Component Parts Location	217
AUTOMATIC DOOR LOCK/UNLOCK FUNCTION : Component Description	217
POWER DOOR LOCK SYSTEM	217
POWER DOOR LOCK SYSTEM :	
Component Parts Location	218
POWER DOOR LOCK SYSTEM :	
Component Description	218
REMOTE KEYLESS ENTRY SYSTEM	218
REMOTE KEYLESS ENTRY SYSTEM :	
Component Parts Location	219
REMOTE KEYLESS ENTRY SYSTEM :	
Component Description	219
TRUNK LID OPENER SYSTEM	219
TRUNK LID OPENER SYSTEM :	
Component Parts Location	220
TRUNK LID OPENER SYSTEM :	
Component Description	220
SYSTEM (POWER DOOR LOCK SYSTEM) ..	221
AUTOMATIC DOOR LOCK/UNLOCK FUNCTION.	221
AUTOMATIC DOOR LOCK/UNLOCK FUNCTION : System Diagram	221
AUTOMATIC DOOR LOCK/UNLOCK FUNCTION : System Description	221
POWER DOOR LOCK SYSTEM	222
POWER DOOR LOCK SYSTEM : System Diagram	223
POWER DOOR LOCK SYSTEM : System Description	223
REMOTE KEYLESS ENTRY SYSTEM	223

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

DLK

REMOTE KEYLESS ENTRY SYSTEM : System Diagram	224	Diagnosis Procedure	260
REMOTE KEYLESS ENTRY SYSTEM : System Description	224	Component Inspection	262
SYSTEM (TRUNK LID OPENER SYSTEM) ...	226	DOOR LOCK AND UNLOCK SWITCH	263
System Description	226	DRIVER SIDE	263
DIAGNOSIS SYSTEM (BCM)	227	DRIVER SIDE : Description	263
COMMON ITEM	227	DRIVER SIDE : Component Function Check	263
COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)	227	DRIVER SIDE : Diagnosis Procedure	263
DOOR LOCK	228	PASSENGER SIDE	264
DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)	228	PASSENGER SIDE : Description	264
TRUNK	228	PASSENGER SIDE :	
TRUNK : CONSULT Function (BCM - TRUNK)	228	Component Function Check	264
ECU DIAGNOSIS INFORMATION	230	PASSENGER SIDE : Diagnosis Procedure	265
BCM	230	KEY CYLINDER SWITCH	267
List of ECU Reference	230	Description	267
WIRING DIAGRAM	231	Component Function Check	267
REMOTE KEYLESS ENTRY SYSTEM	231	Diagnosis Procedure	267
Wiring Diagram	231	Component Inspection	268
POWER DOOR LOCK SYSTEM	240	KEY SWITCH (BCM INPUT)	269
Wiring Diagram	240	Diagnosis Procedure	269
TRUNK LID OPENER	248	DOOR LOCK ACTUATOR	270
Wiring Diagram	248	DRIVER SIDE	270
BASIC INSPECTION	252	DRIVER SIDE : Description	270
DIAGNOSIS AND REPAIR WORK FLOW	252	DRIVER SIDE : Component Function Check	270
Work Flow	252	DRIVER SIDE : Diagnosis Procedure	270
KEYFOB ID REGISTRATION	255	PASSENGER SIDE	271
Description	255	PASSENGER SIDE : Description	271
Work Procedure	255	PASSENGER SIDE :	
DTC/CIRCUIT DIAGNOSIS	257	Component Function Check	271
U1000 CAN COMM	257	PASSENGER SIDE : Diagnosis Procedure	271
Description	257	REAR LH	272
DTC Logic	257	REAR LH : Description	272
Diagnosis Procedure	257	REAR LH : Component Function Check	272
U1010 CONTROL UNIT (CAN)	258	REAR LH : Diagnosis Procedure	272
DTC Logic	258	REAR RH	273
Diagnosis Procedure	258	REAR RH : Description	273
POWER SUPPLY AND GROUND CIRCUIT ..	259	REAR RH : Component Function Check	273
Diagnosis Procedure	259	REAR RH : Diagnosis Procedure	273
DOOR SWITCH	260	REMOTE KEYLESS ENTRY RECEIVER	275
Description	260	Description	275
Component Function Check	260	Component Function Check	275
		Diagnosis Procedure	275
		KEYFOB BATTERY AND FUNCTION	278
		Description	278
		Component Function Check	278
		Diagnosis Procedure	278
		HORN FUNCTION	280
		Description	280
		Component Function Check	280
		Diagnosis Procedure	280

TRUNK LID OPENER ACTUATOR	282	HOOD LOCK CONTROL : Exploded View	308	
Component Function Check	282	HOOD LOCK CONTROL : Removal and Installa-		A
Diagnosis Procedure	282	tion	308	
TRUNK LID OPENER SWITCH	284	RADIATOR CORE SUPPORT	311	B
Component Function Check	284	Exploded View	311	
Diagnosis Procedure	284	Removal and Installation	311	
Component Inspection	285	FRONT FENDER	313	C
TRUNK LAMP SWITCH	286	Exploded View	313	
Description	286	Removal and Installation	313	
Component Function Check	286	Adjustment	314	D
Diagnosis Procedure	286	FRONT DOOR	316	
Component Inspection	287	DOOR ASSEMBLY	316	E
WARNING CHIME FUNCTION	289	DOOR ASSEMBLY : Removal and Installation	316	
Description	289	DOOR ASSEMBLY : Adjustment	318	
Component Function Check	289	DOOR HINGE	319	F
Diagnosis Procedure	289	DOOR HINGE : Removal and Installation	319	
HAZARD FUNCTION	290	DOOR CHECK LINK	320	G
Description	290	DOOR CHECK LINK : Removal and Installation ..	320	
Component Function Check	290	REAR DOOR	322	
Diagnosis Procedure	290	DOOR ASSEMBLY	322	H
KEYFOB ID SET UP WITH CONSULT	291	DOOR ASSEMBLY : Removal and Installation	322	
ID Code Entry Procedure	291	DOOR ASSEMBLY : Adjustment	323	
KEYFOB ID SET UP WITHOUT CONSULT ...	292	DOOR HINGE	325	I
ID Code Entry Procedure	292	DOOR HINGE : Removal and Installation	325	
SYMPTOM DIAGNOSIS	294	DOOR CHECK LINK	325	J
POWER DOOR LOCK SYSTEM SYMPTOMS.	294	DOOR CHECK LINK : Removal and Installation ..	325	
Symptom Table	294	DOOR HANDLE	327	DLK
REMOTE KEYLESS ENTRY SYSTEM SYMP-		FRONT DOOR HANDLE	327	
TOMS	295	FRONT DOOR HANDLE : Exploded View	327	L
Symptom Table	295	FRONT DOOR HANDLE : Removal and Installa-		
SQUEAK AND RATTLE TROUBLE DIAG-		tion - Inside Handle	327	
NOSES	297	FRONT DOOR HANDLE : Removal and Installa-		M
Work Flow	297	tion - Outside Handle	327	
Generic Squeak and Rattle Troubleshooting	298	REAR DOOR HANDLE	329	
Diagnostic Worksheet	301	REAR DOOR HANDLE : Exploded View	330	
REMOVAL AND INSTALLATION	303	REAR DOOR HANDLE : Removal and Installation		N
HOOD	303	- Inside Handle	330	
HOOD ASSEMBLY	303	REAR DOOR HANDLE : Removal and Installation		O
HOOD ASSEMBLY : Exploded View	303	- Outside Handle	330	
HOOD ASSEMBLY : Removal and Installation	303	DOOR LOCK	333	
HOOD ASSEMBLY : Adjustment	304	FRONT DOOR LOCK	333	P
HOOD HINGE	306	FRONT DOOR LOCK : Exploded View	333	
HOOD HINGE : Removal and Installation	306	FRONT DOOR LOCK : Removal and Installation.	333	
HOOD SUPPORT ROD	307	REAR DOOR LOCK	334	
HOOD SUPPORT ROD : Removal and Installa-		REAR DOOR LOCK : Exploded View	335	
tion	307	REAR DOOR LOCK : Removal and Installation ...	335	
HOOD LOCK CONTROL	307	TRUNK LID	337	

TRUNK LID ASSEMBLY	337	FUEL FILLER LID	344
TRUNK LID ASSEMBLY : Exploded View	337	FUEL FILLER LID : Removal and Installation	344
TRUNK LID ASSEMBLY : Removal and Installation	337	FUEL FILLER OPENER CABLE	345
TRUNK LID ASSEMBLY : Adjustment	339	FUEL FILLER OPENER CABLE : Removal and Installation	345
TRUNK LID HINGE	340	FUEL FILLER LID LOCK	346
TRUNK LID HINGE : Removal and Installation	340	FUEL FILLER LID LOCK : Removal and Installation	346
TORSION BAR	341	DOOR SWITCH	348
TORSION BAR : Removal and Installation	341	Removal and Installation	348
TRUNK LID LOCK	341	REMOTE KEYLESS ENTRY RECEIVER	349
TRUNK LID LOCK : Removal and Installation	341	Removal and Installation	349
EMERGENCY LEVER	342	KEYFOB BATTERY	350
EMERGENCY LEVER : Removal and Installation	342	Exploded View	350
TRUNK LID STRIKER	342	Removal and Installation	350
TRUNK LID STRIKER : Removal and Installation	342	TRUNK LID OPENER SWITCH	351
FUEL FILLER LID OPENER	344	Removal and Installation	351
Exploded View	344		

PRECAUTION

PRECAUTIONS

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

INFOID:000000011536418

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

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which 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 the SR section.
- Do not 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

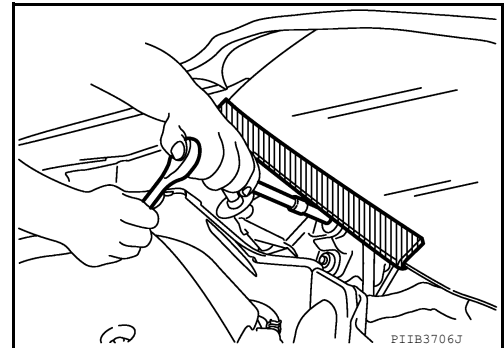
WARNING:

- When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors with the Ignition ON or engine running, DO NOT 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 three minutes before performing any service.

Procedure without Cowl Top Cover

INFOID:000000011536419

When performing the procedure after removing cowl top cover, cover the lower end of windshield with urethane, etc.



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Precaution for Servicing Doors and Locks

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WARNING:

Radio waves could adversely affect electric medical equipment. Those who use a pacemaker should contact the electric medical equipment manufacturer for the possible influences before use,

- After removing and installing the opening/closing parts, be sure to carry out fitting adjustments to check their operation.
- Check the lubrication level, damage, and wear of each part. If necessary, grease or replace it.
- 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 prevent them from being dropped.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with a new one.

PRECAUTIONS

< PRECAUTION >

[WITH INTELLIGENT KEY SYSTEM]

- Be sure to tighten bolts and nuts securely to the specified torque.
- After installation is complete, be sure to check that each part works properly.
- Follow the steps below to clean components:
 - Water soluble dirt:
 - Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area.
 - Then rub with a soft, dry cloth.
 - Oily dirt:
 - Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%) and wipe the dirty area.
 - Then dip a cloth into fresh water, wring the water out of the cloth and wipe the detergent off.
 - Then rub with a soft, dry cloth.
 - Do not use organic solvent such as thinner, benzene, alcohol or gasoline.
 - For genuine leather seats, use a genuine leather seat cleaner.

PREPARATION

[WITH INTELLIGENT KEY SYSTEM]

< PREPARATION >

PREPARATION

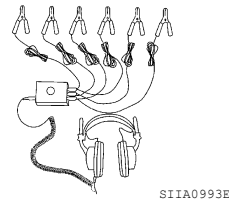
PREPARATION

Special Service Tools

INFOID:000000011536421

The actual shape of the tools may differ from those illustrated here.

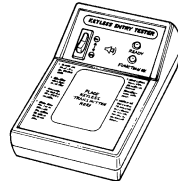
Tool number (TechMate No.) Tool name	Description
— (J-39570) Chassis Ear	Locating the noise
— (J-50397) NISSAN Squeak and Rattle Kit	Repairing the cause of noise
— (J-43241) Remote Keyless Entry Tester	Used to test keyfobs
— (J-50190) Signal Tech II	<ul style="list-style-type: none"> • Activate and display TPMS transmitter IDs • Display tire pressure reported by the TPMS transmitter • Read TPMS DTCs • Register TPMS transmitter IDs • Test remote keyless entry keyfob relative signal strength • Compatible with future sensors • Equipped with a display • Check Intelligent Key relative signal strength • Confirm vehicle Intelligent Key antenna signal strength



S1TA0993E



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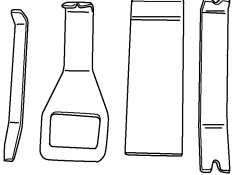
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PREPARATION

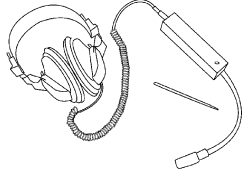

< PREPARATION >

[WITH INTELLIGENT KEY SYSTEM]

Tool number (TechMate No.) Tool name	Description
KV48105501 (J-45295-A) Transmitter activation tool  ALEIA0183ZZ	<ul style="list-style-type: none"> • Activate TPMS transmitter IDs • Compatible with future sensors • Equipped with a display (KV48105501 only)
— (J-46534) Trim Tool Set  AWJIA0483ZZ	Removing trim components

Commercial Service Tools

INFOID:000000011536422

(TechMate No.) Tool name	Description
(J-39565) Engine Ear  SIIA0995E	Locating the noise
(—) Power tool  PIIB1407E	Loosening nuts, screws and bolts

CLIP LIST

< PREPARATION >


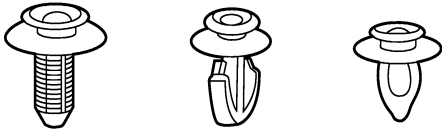


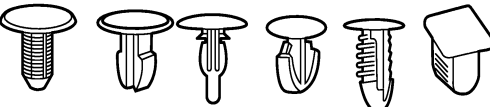
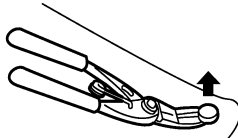

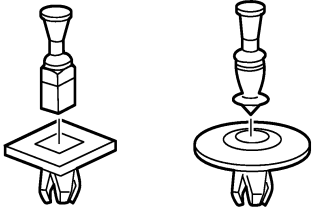
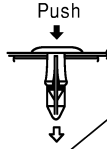
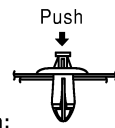

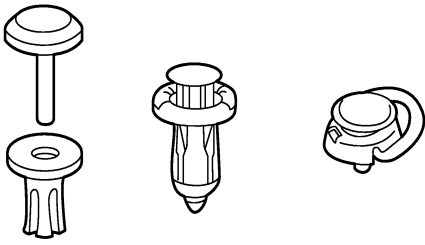
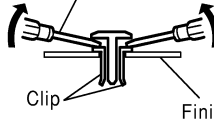

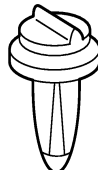
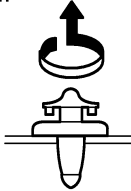
[WITH INTELLIGENT KEY SYSTEM]

CLIP LIST

Descriptions for Clips

INFOID:000000011536423

Replace any clips which are damaged during removal or installation.

Symbol No.	Shapes	Removal & Installation
C101 		<p>Removal: Remove by bending up with flat-bladed screwdrivers or clip remover.</p> 
C103 		 <p>Removal: Remove with a clip remover.</p>
C203 		<p>Removal: Push center pin to catching position. (Do not remove center pin by hitting it.)</p> <p>Push</p>  <p>Installation:</p> 
C205 		<p>Removal: Flat-bladed screwdriver</p>  <p>Clip Finisher</p>
C206 		<p>Removal:</p> 


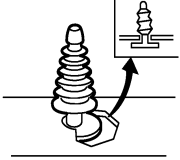
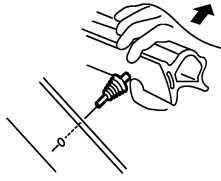

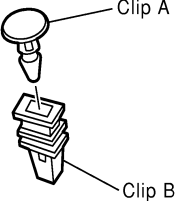
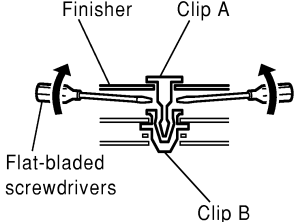

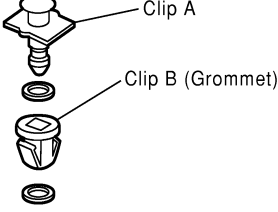
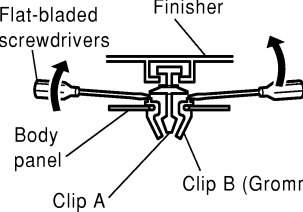
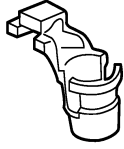
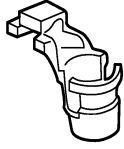
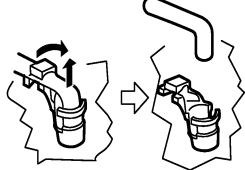

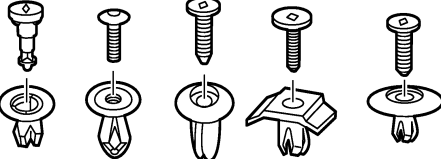

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CLIP LIST

< PREPARATION >

[WITH INTELLIGENT KEY SYSTEM]


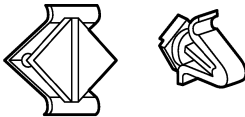

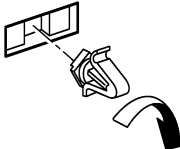

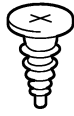



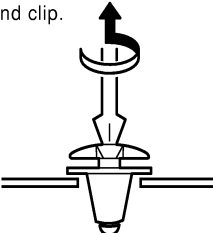



Symbol No.	Shapes	Removal & Installation
<p>CE103</p> 		<p>Removal:</p> 
<p>CF110</p> 		<p>Removal:</p> 
<p>CF118</p> 		<p>Removal:</p> 
<p>CR103</p> 		<p>Removal: Holder portion of clip must be spread out to remove rod.</p> 
<p>CS101</p> 		<p>Removal:</p> <ol style="list-style-type: none"> 1. Screw out with a Phillips screwdriver. 2. Remove female portion with flat-bladed screwdriver. 

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CLIP LIST

< PREPARATION >

[WITH INTELLIGENT KEY SYSTEM]

Symbol No.	Shapes	Removal & Installation	
CG101 		Removal:  Rotate 45° to remove	Installation: 
CS102 			
CS113 		Removal: Disconnect upper connection of clip with a flat-bladed screwdriver, then remove clip while inserting a flat-bladed screwdriver between body panel and clip. 	
C111 			

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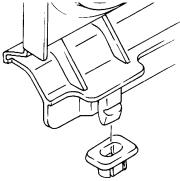
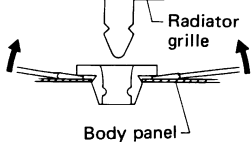

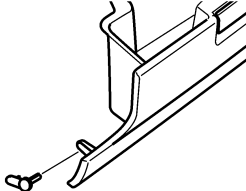
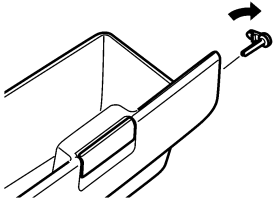

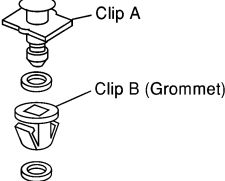
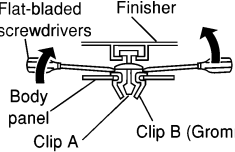
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CLIP LIST

< PREPARATION >

[WITH INTELLIGENT KEY SYSTEM]

Symbol No.	Shapes	Removal & Installation
<p>CG104</p> 		<p>Removal: Remove by bending up with flat-bladed screwdrivers.</p>  <p>Radiator grille Body panel</p>
<p>CE114</p> 		
<p>CF118</p> 	 <p>Clip A Clip B (Grommet)</p>	<p>Removal: Flat-bladed screwdrivers Finisher</p>  <p>Body panel Clip A Clip B (Grommet)</p>

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COMPONENT PARTS

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

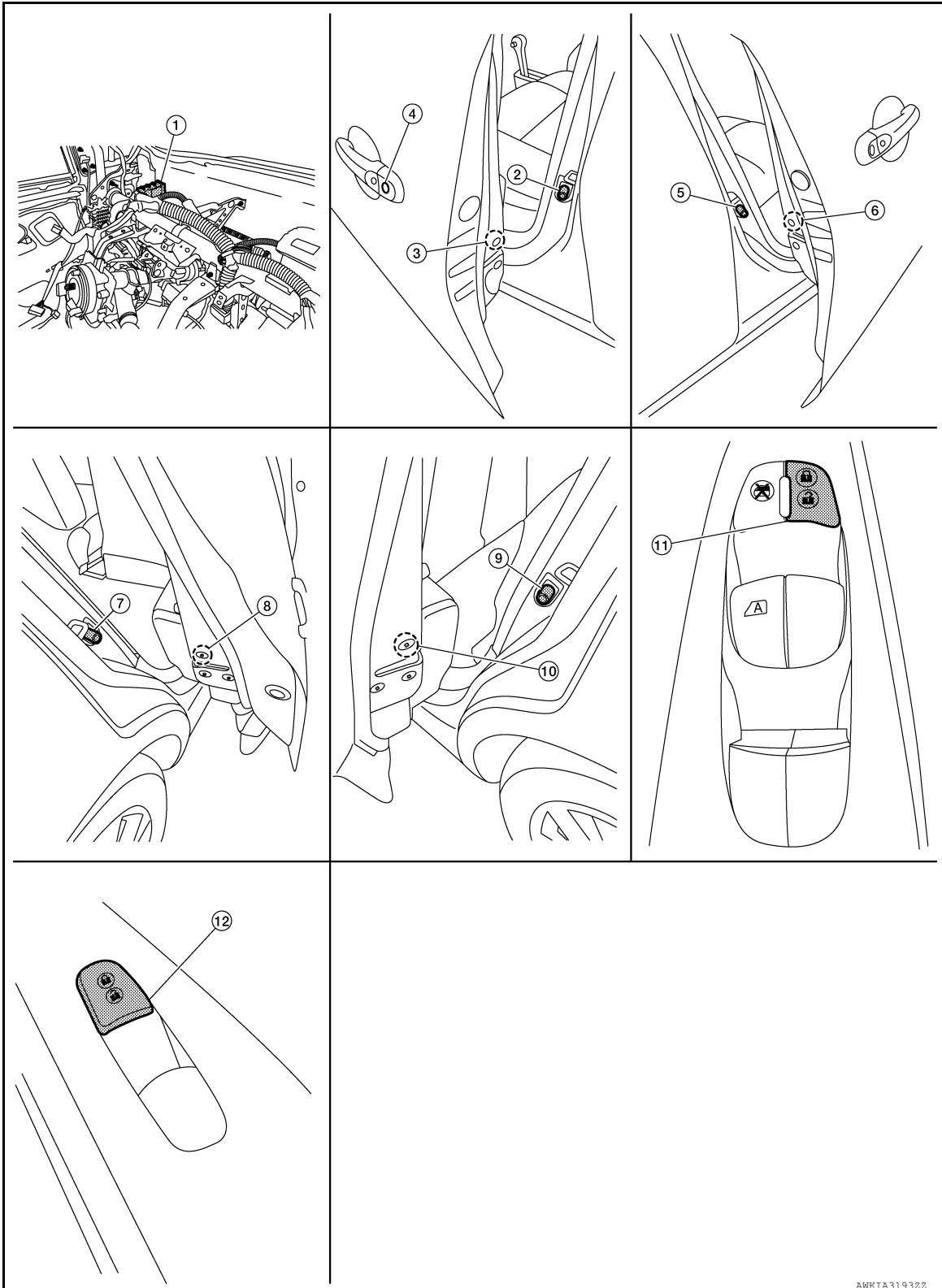
SYSTEM DESCRIPTION

COMPONENT PARTS

POWER DOOR LOCK SYSTEM

POWER DOOR LOCK SYSTEM : Component Parts Location

INFOID:000000011536424



AWKIA3193Z2

COMPONENT PARTS

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

- | | | |
|--|---|---|
| 1. BCM (view with instrument panel re-moved) | 2. Front door switch LH | 3. Front door lock actuator LH |
| 4. Front door lock assembly LH | 5. Front door switch RH | 6. Front door lock actuator RH |
| 7. Rear door switch RH | 8. Rear door lock actuator RH | 9. Rear door lock switch LH |
| 10. Rear door lock actuator LH | 11. Main power window and door lock/unlock switch | 12. Power window and door lock/unlock switch RH |

POWER DOOR LOCK SYSTEM : Component Description

INFOID:000000011536425

Item	Function
BCM	Controls the door lock system
Door switch	Inputs door open/close condition to BCM
Door lock and unlock switch	<ul style="list-style-type: none">• Detects if door lock and unlock switch is press/release• Integrated in the main power window and door lock/unlock switch and power window and door lock/unlock switch RH
Door lock actuator	Output lock/unlock signal from BCM and locks/unlocks each door

INTELLIGENT KEY SYSTEM

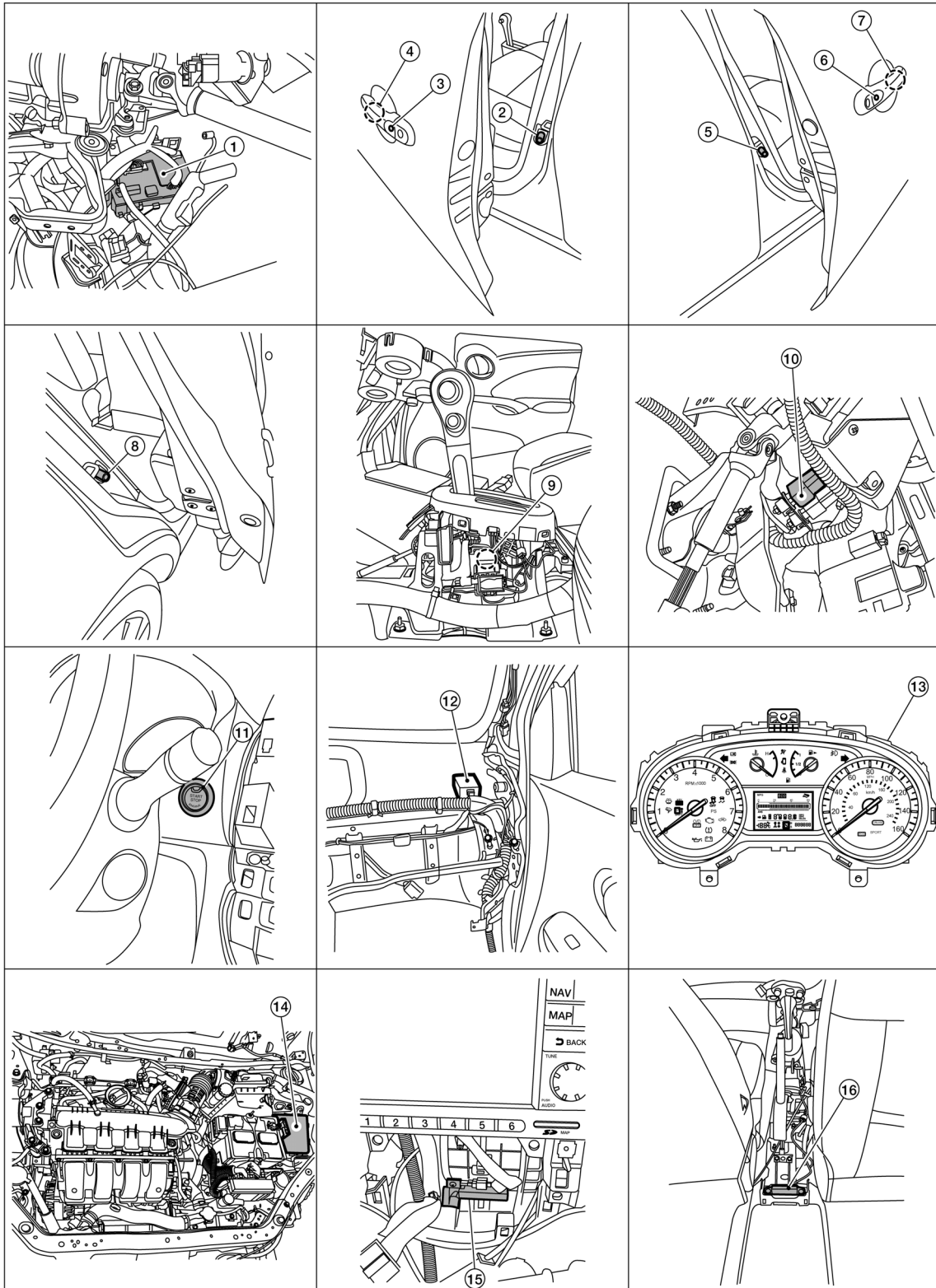
COMPONENT PARTS

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

INTELLIGENT KEY SYSTEM : Component Parts Location

INFOID:000000011536426

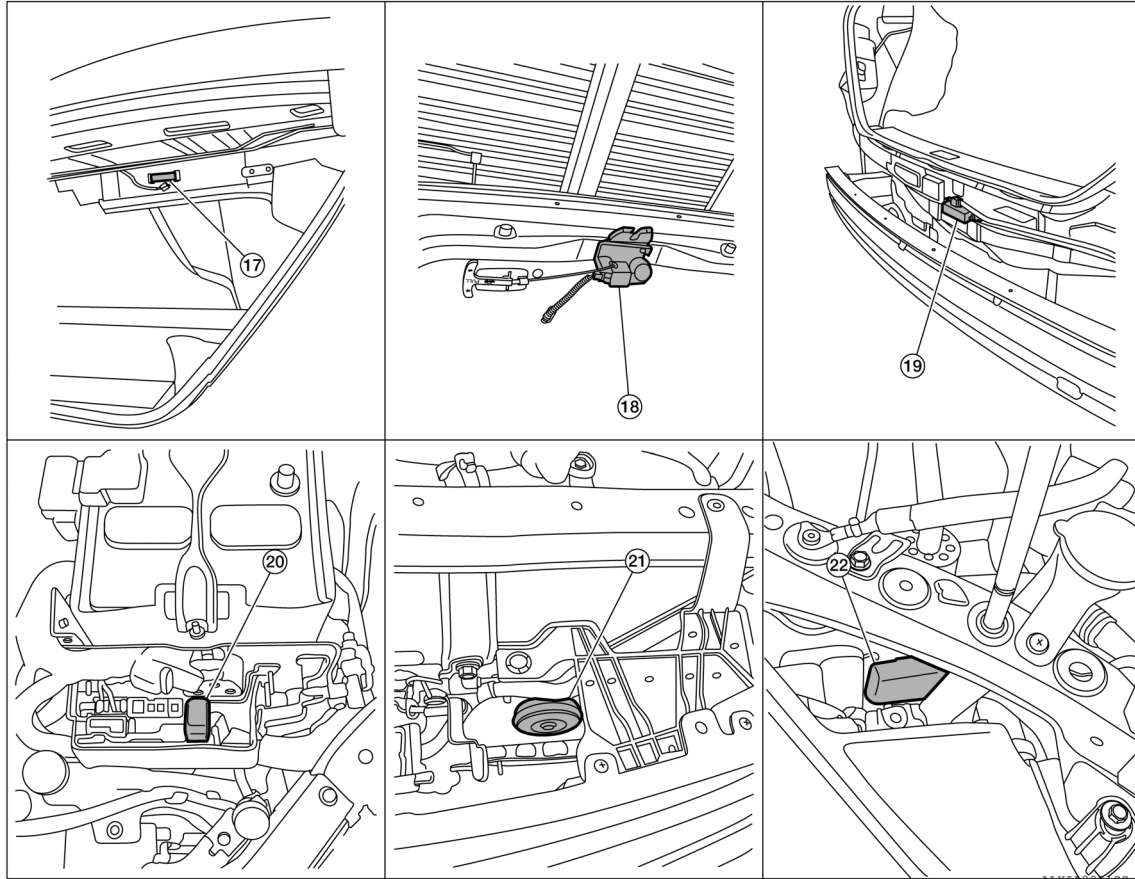


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COMPONENT PARTS

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]



- | | | |
|--|--|---|
| 1. BCM (view with instrument panel removed) | 2. Front door switch LH | 3. Door request switch LH |
| 4. Outside key antenna (driver side) | 5. Front door switch RH | 6. Door request switch RH |
| 7. Outside key antenna (passenger side) | 8. Rear door switch RH (rear door switch LH similar) | 9. CVT shift selector (park position switch) (if equipped) (view with center console removed) |
| 10. Brake switch | 11. Push-button ignition switch | 12. Remote keyless entry receiver (view with instrument panel removed) |
| 13. Combination meter | 14. IPDM E/R | 15. Inside key antenna (instrument center) |
| 16. Inside key antenna (console) (view with center console removed) | 17. Inside key antenna (trunk room) | 18. Trunk lid opener assembly |
| 19. Outside key antenna (rear bumper) (view with rear bumper fascia removed) | 20. Horn relay | 21. Horn |
| 22. Intelligent Key warning buzzer | | |

INTELLIGENT KEY SYSTEM : Component Description

INFOID:000000011536427

Item	Function
BCM	Controls the Intelligent Key system.
Trunk lid switch	Inputs trunk lid open/close condition to BCM.
Door lock actuator	Output lock/unlock signal from BCM and locks/unlocks each door.
Stop lamp switch	Inputs the brake pedal position condition to BCM.
Push-button ignition switch	Inputs the push-button ignition switch ON/OFF condition to BCM.
Door switch	Inputs door open/close condition to BCM.

COMPONENT PARTS

< SYSTEM DESCRIPTION >

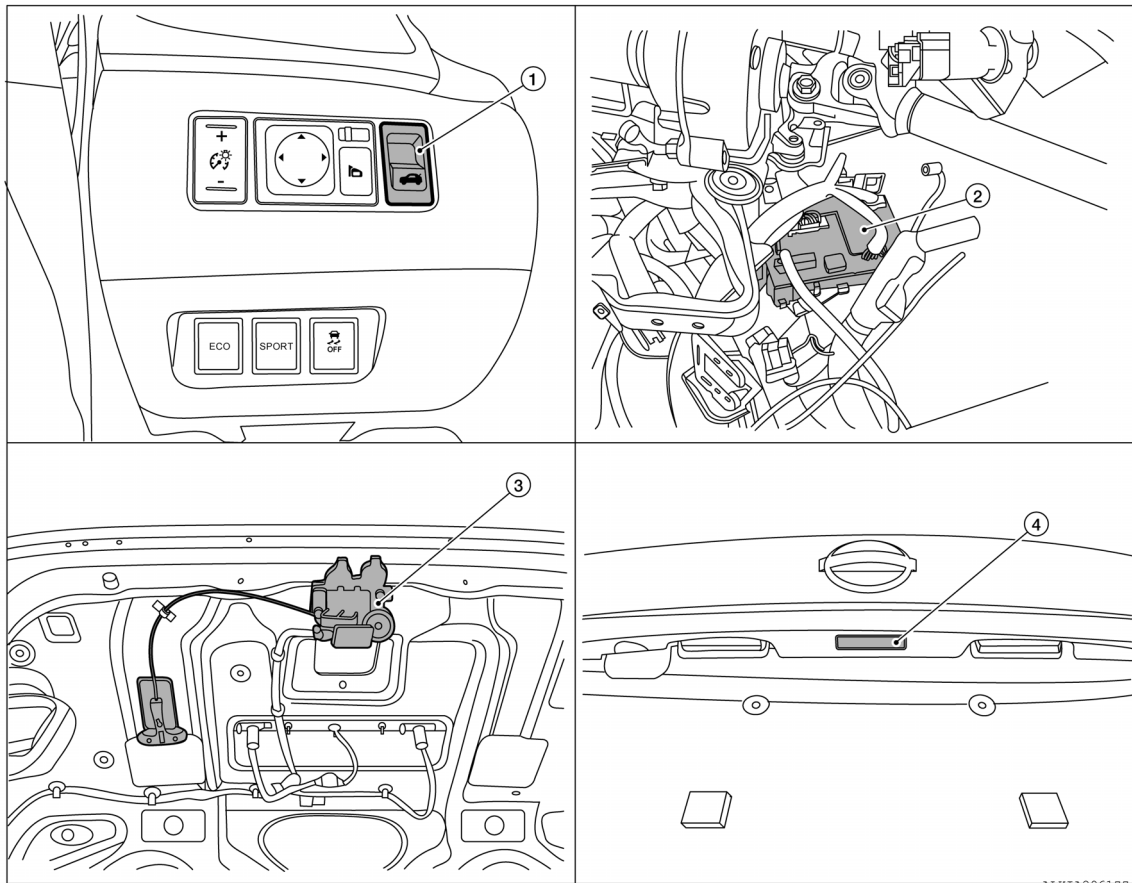
[WITH INTELLIGENT KEY SYSTEM]

Item	Function
Remote keyless entry receiver	Receives lock/unlock signal from the Intelligent Key, and then transmits to BCM.
Request switch	Inputs lock/unlock operation to BCM.
Intelligent Key	Transmits button operation to remote keyless entry receiver.
Outside key antenna	Detects if Intelligent Key is outside the vehicle.
Inside key antenna	Detects if Intelligent Key is inside the vehicle.
Combination meter	Display, buzzer (combination meter) and KEY warning lamp are installed to combination meter.

TRUNK LID OPENER SYSTEM

TRUNK LID OPENER SYSTEM : Component Parts Location

INFOID:000000011536428



1. Trunk lid opener switch
2. BCM (view with instrument panel removed)
3. Trunk lid opener assembly (trunk lid opener actuator and trunk lid switch)
4. Trunk opener request switch

TRUNK LID OPENER SYSTEM : Component Description

INFOID:000000011536429

Item	Function
BCM	Controls the Intelligent Key system.
Trunk opener request switch	Inputs the trunk open request to the BCM.
Trunk lid opener actuator	Releases the mechanical latch to open the trunk lid.
Trunk lid opener switch	Inputs the trunk open request to the BCM.
Trunk lid switch	Inputs the trunk lid open/close condition to the BCM.

SYSTEM (POWER DOOR LOCK SYSTEM)

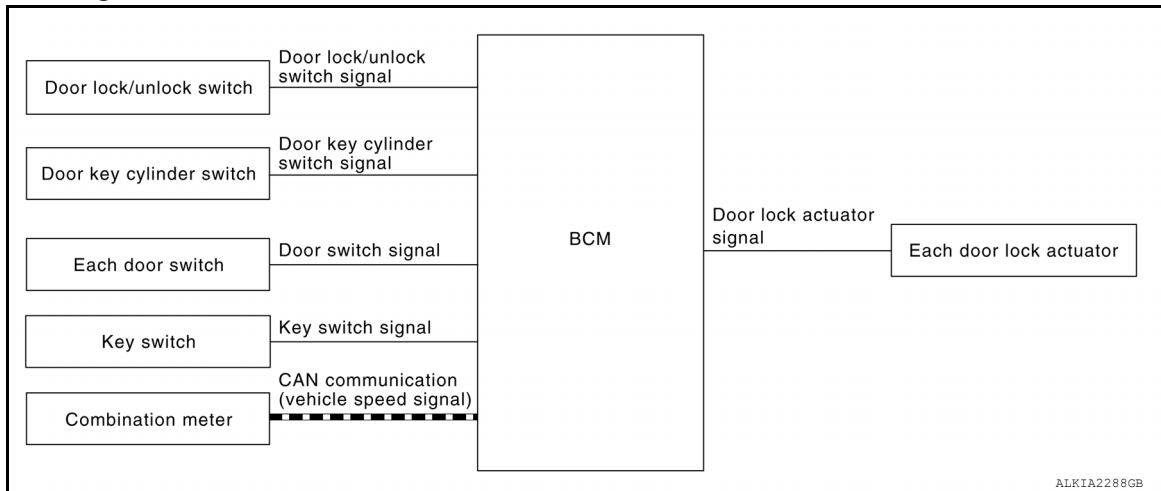
< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

SYSTEM (POWER DOOR LOCK SYSTEM)

System Diagram

INFOID:000000011536430



System Description

INFOID:000000011536431

Input	Single	Function	Actuator
Door lock/unlock switch	Door lock/unlock signal	Door lock function	• Each door lock actuator
Door key cylinder switch			
Each door switch	Door open/close signal	Key reminder function	
Combination meter	Warning buzzer signal		
	Vehicle speed signal	Automatic door lock/unlock function	

DOOR LOCK FUNCTION

- The door lock and unlock switch (driver side) is built into main power window and door lock/unlock switch.
- The door lock and unlock switch (passenger side) is built into power window and door lock/unlock switch RH.
- Interlocked with the locking operation of door lock and unlock switch, door lock actuators of all doors are locked.
- Interlocked with the unlocking operation of door lock and unlock switch, door lock actuators of all doors are unlocked.

Door Key Cylinder

- With the door key inserted in the door key cylinder on driver side, turning it to "LOCK", will lock door lock actuator of all doors.
- With the door key inserted in the door key cylinder on driver side, turning it to "UNLOCK" once unlocks the driver side door lock actuator; turning it to "UNLOCK" again within 60 seconds after the first unlock operation unlocks all of the other doors. - (SELECTIVE UNLOCK OPERATION)

Selective unlock operation mode can be changed using "AUTO LOCK SET" mode in "WORK SUPPORT". Refer to [DLK-37. "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)".](#)

AUTOMATIC DOOR LOCKS (LOCK OPERATION)

The automatic door locks function is the function that locks all doors linked with the vehicle speed or shift position.

Vehicle Speed Sensing Auto Door Lock*1

All doors are locked when the vehicle speed reaches 24 km/h (15 MPH) or more.

BCM outputs the lock signal to all door lock actuators when it detects that the ignition switch is turned ON, all doors are closed and the vehicle speed received from the combination meter via CAN communication becomes 24 km/h (15 MPH) or more.

SYSTEM (POWER DOOR LOCK SYSTEM)

[WITH INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

If a door is opened and closed at any time during one ignition cycle (OFF → ON), even after initial auto door lock operation has taken place, the BCM will relock all doors when the vehicle speed reaches 24 km/h (15 MPH) or more again.

Setting change of Automatic Door Locks (LOCK) Function

The LOCK operation setting of the automatic door locks function can be changed.

With CONSULT

The ON/OFF switching of the automatic door locks (LOCK) function and the type selection of the automatic door locks (LOCK) function can be performed at the WORK SUPPORT setting of CONSULT. Refer to [DLK-37, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)"](#).

Without CONSULT

The automatic door locks (LOCK) function can be switched ON/OFF by performing the following operation.

1. Close all doors (door switch OFF)
2. Push the ignition switch to the ON position
3. Press and hold the door lock and unlock switch for 5 seconds or more in the lock direction within 20 seconds after turning the ignition switch ON.
4. The switching is completed when the hazard lamp blinks.

OFF → ON : 2 blinks

ON → OFF : 1 blink

5. The ignition switch must be turned OFF and ON again between each setting change.

AUTOMATIC DOOR LOCKS (UNLOCK OPERATION)

The automatic door locks (UNLOCK) function is the function that unlocks all doors linked with the key position or shift position.

IGN OFF Interlock Door Unlock^{*1}

All doors are unlocked when the power supply position is changed from ON to OFF.

BCM outputs the unlock signal to all door lock actuators when it detects that the power supply position is changed from ignition switch ON to OFF.

Setting change of Automatic Door Locks (UNLOCK) Function

The UNLOCK operation setting of the automatic door locks function can be changed.

With CONSULT

The ON/OFF switching of the automatic door locks (UNLOCK) function and the type selection of the automatic door locks (UNLOCK) function can be performed at the WORK SUPPORT setting of CONSULT. Refer to [DLK-37, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)"](#).

Without CONSULT

The automatic door locks (UNLOCK) function can be switched ON/OFF by performing the following operation.

1. Close all doors (door switch OFF)
2. Place the ignition switch in the ON position
3. Press and hold the door lock and unlock switch for 5 seconds or more in the unlock direction within 20 seconds after turning the power supply position ON.
4. The switching is completed when the hazard lamp blinks.

OFF → ON : 2 blinks

ON → OFF : 1 blink

5. The ignition switch must be turned OFF and ON again between each setting change.

^{*1}: This function is set to ON before delivery.

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SYSTEM (INTELLIGENT KEY SYSTEM)

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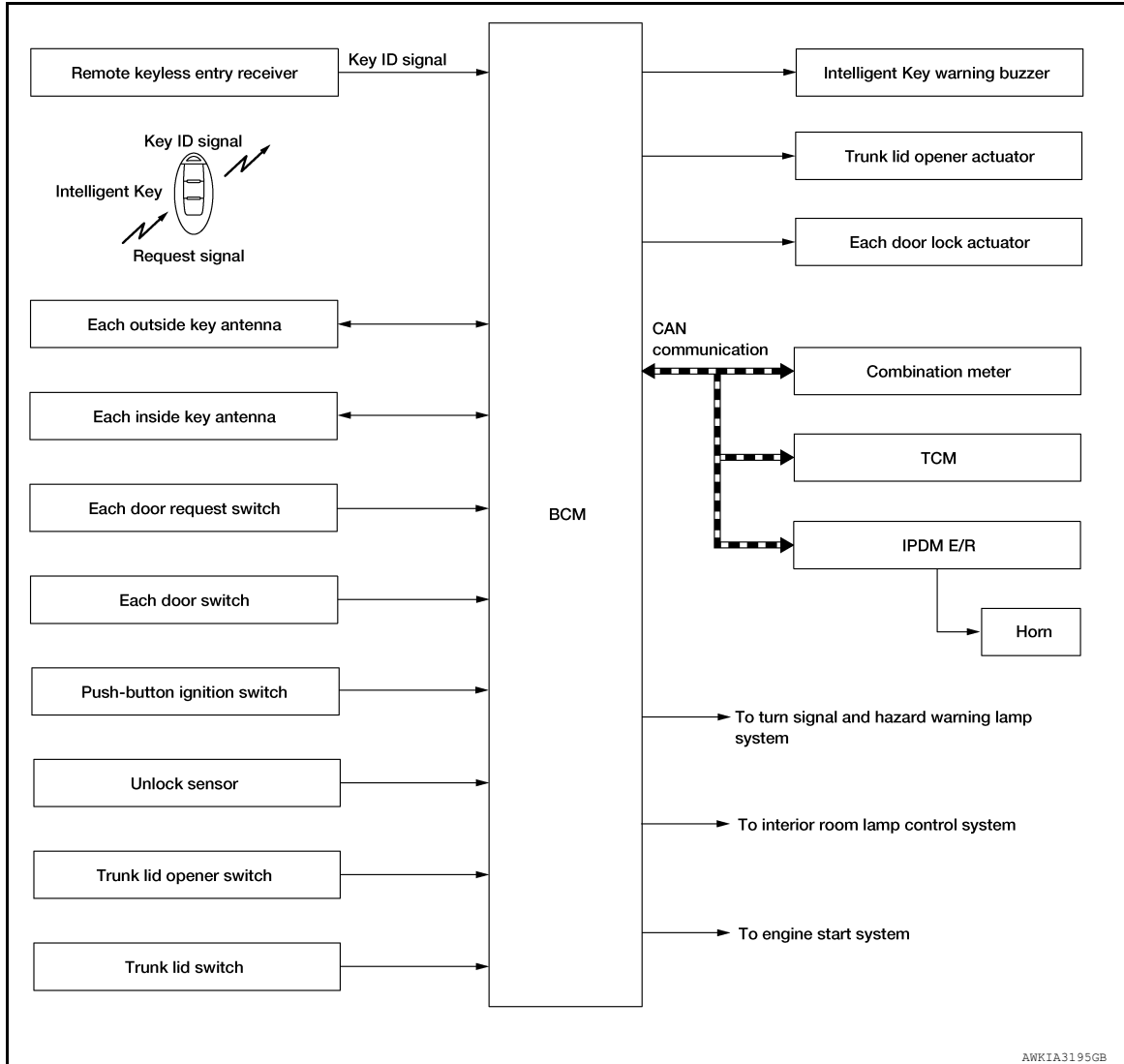
[WITH INTELLIGENT KEY SYSTEM]

SYSTEM (INTELLIGENT KEY SYSTEM) INTELLIGENT KEY SYSTEM

INTELLIGENT KEY SYSTEM : System Description

INFOID:000000011536432

SYSTEM DIAGRAM



SYSTEM DESCRIPTION

- The Intelligent Key system is a system that makes it possible to lock and unlock the door locks (door lock/unlock function) by carrying the Intelligent Key, which operates based on the results of electronic ID verification using two-way communication between the Intelligent Key and the vehicle (BCM).

NOTE:

The driver should always carry the Intelligent Key

- The settings for each function can be changed with CONSULT.
- If an Intelligent Key is lost, a new Intelligent Key can be registered. A maximum of 4 Intelligent Keys can be registered.
- It is possible to perform a diagnosis on the system and register an Intelligent Key with CONSULT.
- For initialization and registration of Intelligent Key, refer to CONSULT Immobilizer mode and follow the on-screen instructions.

Function	Description	Refer
Door lock	Lock/unlock can be performed by pressing the request switch	DLK-25
Trunk open	The trunk lid can be opened by carrying the Intelligent Key and pressing the trunk lid opener switch	DLK-27

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

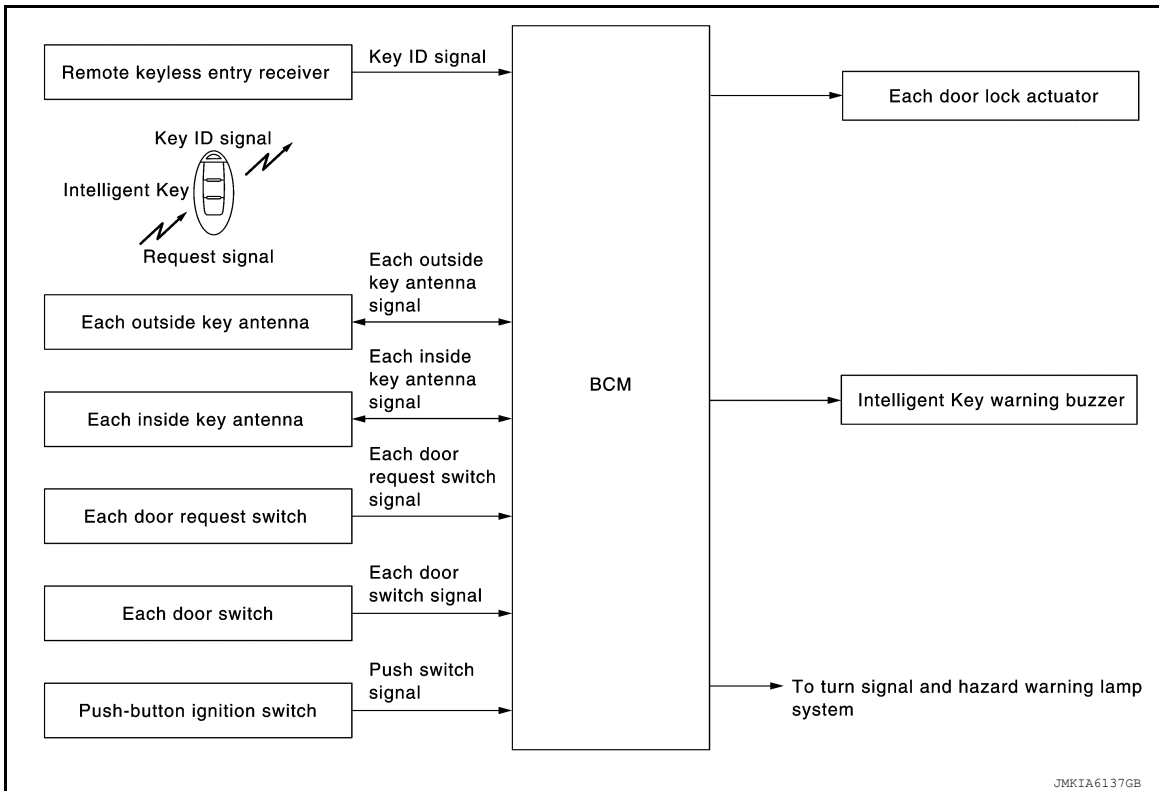
Function	Description	Refer
Remote keyless entry	Lock/unlock can be performed by pressing the remote controller button of the Intelligent Key	DLK-28
Key reminder	The key reminder buzzer sounds a warning if the door is locked with the key left inside the vehicle	DLK-30
Warning	If an action that does not meet the operating condition of the Intelligent Key system is taken, the buzzer sounds to inform the driver	DLK-31
Engine start	The engine can be turned on while carrying the Intelligent Key	DLK-24
Interior room lamp control	Interior room lamp is controlled according to door lock/unlock state	DLK-22

DOOR LOCK FUNCTION

DOOR LOCK FUNCTION : System Description

INFOID:000000011536433

SYSTEM DIAGRAM



DOOR REQUEST SWITCH OPERATION

When pressing the request switch, it is possible to lock and unlock the door by carrying the Intelligent Key.

OPERATION DESCRIPTION

- When the BCM detects that each door request switch is pressed, it starts the outside key antenna and inside key antenna corresponding to the pressed door request switch and transmits the request signal to the Intelligent Key. And then, check that the Intelligent Key is near the door.
- If the Intelligent Key is within the outside key antenna detection area, it receives the request signal and transmits the key ID signal to the BCM via remote keyless entry receiver.
- BCM receives the key ID signal and compares it with the registered key ID.
- BCM transmits door lock/unlock signal and operates each door lock actuator. At the same time, BCM blinks hazard warning lamp (lock: 1 time, unlock: 2 times) and sounds Intelligent Key buzzer (lock: 1 time, unlock: 2 times) as a reminder.

OPERATION CONDITION

If the following conditions are satisfied, door lock/unlock operation is performed if the door request switch is operated.

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

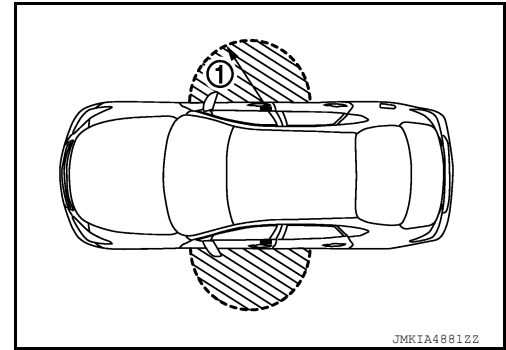
Each request switch operation	Operation condition
Lock	<ul style="list-style-type: none"> • All doors are closed • Ignition switch is in the LOCK or OFF position • Panic alarm is not activated • Intelligent Key is outside the vehicle • Intelligent Key is within outside key antenna detection area • P position warning is not activated
Unlock	<ul style="list-style-type: none"> • All doors are closed • Ignition switch is in the LOCK or OFF position • Panic alarm is not activated • Intelligent Key is outside the vehicle • Intelligent Key is within outside key antenna detection area *

*: Even with a registered Intelligent Key remaining inside the vehicle, door locks can be unlocked from outside of the vehicle with a spare Intelligent Key as long as key IDs are different.

Door lock function can be changed using “LOCK/UNLOCK BY I-KEY” mode in “WORK SUPPORT”. Refer to [DLK-37, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

OUTSIDE KEY ANTENNA DETECTION AREA

The outside key antenna detection area of door lock/unlock function is in the range of approximately 80 cm (31.50 in) surrounding the driver, passenger door handles (1). However, this operating range depends on the ambient conditions.



HAZARD AND BUZZER REMINDER FUNCTION

For the operation check, BCM blinks hazard warning lamps (lock: 1 time, unlock: 2 times) and sounds Intelligent Key warning buzzer (lock: 1 time, unlock: 2 times) when door lock or unlock operates by operation of each door request switch.

How to Change Hazard and Buzzer Reminder Mode

Refer to [DLK-37, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

AUTO DOOR LOCK FUNCTION

After door is unlocked by door request switch operation and if 30 seconds or more passes without performing the following operation, all doors are automatically locked. However, operation check function does not activate.

Operating condition	<ul style="list-style-type: none"> • Door switch is ON (door is open) • BCM receives lock signal • Push switch is pressed
---------------------	--

Auto door lock mode can be changed by the “AUTO LOCK SET” mode in “WORK SUPPORT”. Refer to [DLK-37, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

LIST OF OPERATION RELATED PARTS

Parts marked with × are the parts related to operation.

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

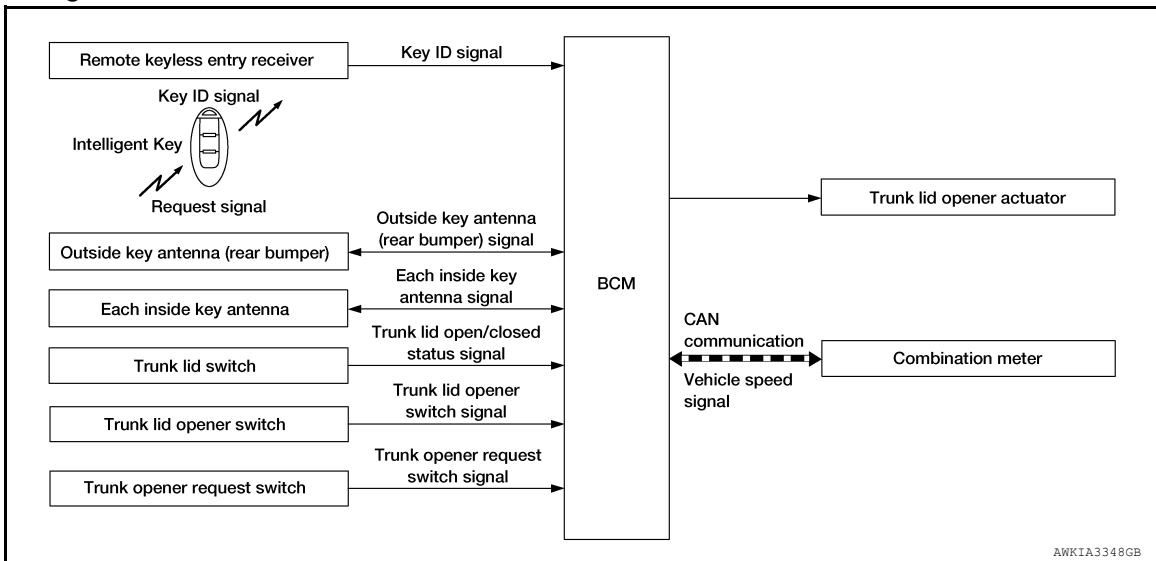
Door lock function	Intelligent Key	Remote keyless entry receiver	Door switch	Door request switch	Door lock actuator	Inside key antenna	Outside key antenna	Intelligent Key warning buzzer	CAN communication system	BCM	Hazard warning lamp	Push-button ignition switch	Combination meter
Door lock/unlock function	x	x	x	x	x	x	x			x			
Hazard and buzzer reminder function								x	x	x	x		x
Auto door lock function	x	x	x	x	x		x			x		x	

TRUNK OPEN FUNCTION

TRUNK OPEN FUNCTION : System Description

INFOID:000000011536434

System Diagram



TRUNK LID OPENER OPERATION

- When the BCM detects that trunk opener request switch is pressed, it starts the outside key antenna (rear bumper) and inside key antenna and transmits the request signal to the Intelligent Key. Then, checks that the Intelligent Key is near the trunk lid.
- If the Intelligent Key is within the outside key antenna detection area, it receives the request signal and transmits the key ID signal to the BCM via remote keyless entry receiver.
- BCM receives the key ID signal and compares it with the registered key ID.

OPERATION CONDITION

If the following conditions are satisfied, the trunk lid can be opened.

Trunk lid open function	Operation condition
Trunk open operation	<ul style="list-style-type: none"> • Vehicle speed is less than 5 km/h (3 MPH) • Intelligent Key is within outside key antenna (rear bumper) detection area • Trunk lid is closed

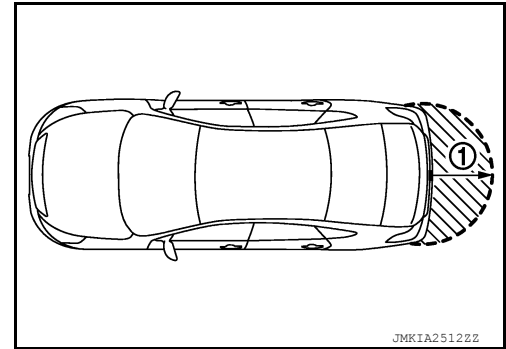
OUTSIDE KEY ANTENNA DETECTION AREA

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

The outside key antenna detection area of trunk lid open function is in the range of approximately 80 cm (31.50 in) surrounding trunk opener request switch (1). However, this operating range depends on the ambient conditions.



LIST OF OPERATION RELATED PARTS

Parts marked with × are the parts related to operation.

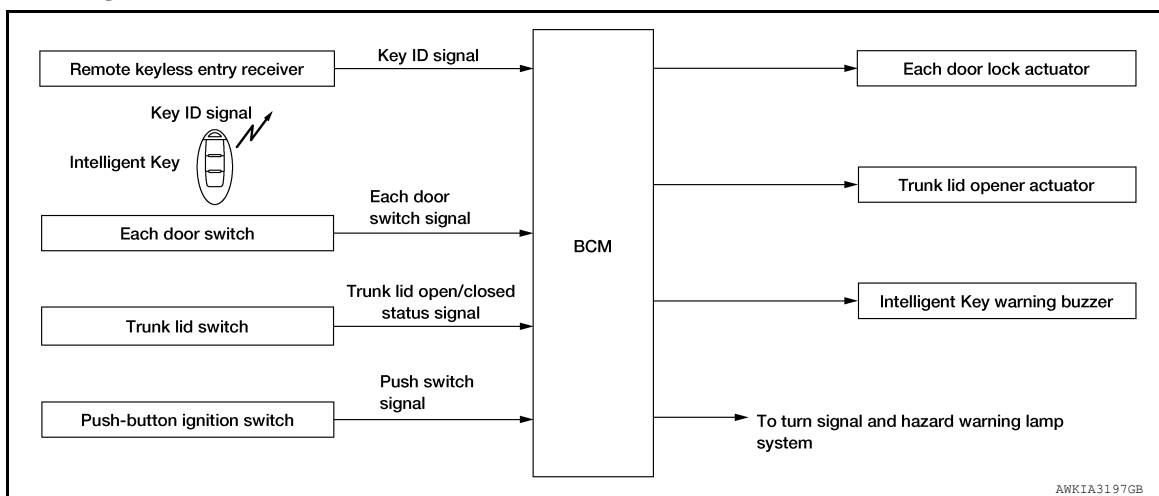
Trunk open function	Intelligent Key	Remote keyless entry receiver	Trunk lid opener actuator	Trunk lid switch	Inside key antenna	Outside key antenna (rear bumper)	CAN communication system	BCM	Trunk lid opener switch	Combination meter	Trunk opener request switch
Trunk lid open function	×	×	×	×	×	×	×	×	×	×	×

REMOTE KEYLESS ENTRY FUNCTION

REMOTE KEYLESS ENTRY FUNCTION : System Description

INFOID:000000011536435

SYSTEM DIAGRAM



REMOTE KEYLESS ENTRY OPERATION

The Intelligent Key has the same functions as the remote control entry system. Therefore, it can be used in the same manner as the remote controller by operating the door lock/unlock button.

Remote keyless entry system controls operation of the following items.

- Auto door lock
- Door lock/unlock
- Hazard and buzzer reminder
- Panic alarm
- Trunk lid open

SYSTEM (INTELLIGENT KEY SYSTEM)

[WITH INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

OPERATION AREA

To check that the Intelligent Key works normally, use within 1 m (3 ft) range of each door, however the operable range may differ according to surroundings.

DOOR LOCK/UNLOCK FUNCTION

- When door lock/unlock button of the Intelligent Key is pressed, lock signal or unlock signal is transmitted from Intelligent Key to BCM via remote keyless entry receiver.
- BCM receives the signal and compares it with the registered key ID to the vehicle.
- BCM transmits door lock/unlock signal to each door lock actuator and operates each door lock actuator, when key ID matches. At the same time, BCM blinks hazard warning lamps (lock: 1 time, unlock: 2 times) and sounds Intelligent Key buzzer (lock: 1 time, unlock: 2 times) as a reminder.

OPERATION CONDITION

Remote controller operation	Operation condition
Lock	<ul style="list-style-type: none">• All door are closed• Ignition switch is in the LOCK or OFF position• Panic alarm is not activated• P position warning is not activated
Unlock	<ul style="list-style-type: none">• Ignition switch is in the LOCK or OFF position• Intelligent Key is outside the vehicle• Panic alarm is not activated• P position warning is not activated

TRUNK OPEN FUNCTION

- When trunk button of the Intelligent Key is pressed, the trunk open signal is transmitted from the Intelligent Key to the BCM via remote keyless entry receiver.
- When BCM receives the trunk open request signal, it operates the trunk lid opener actuator and opens the trunk.

OPERATION CONDITION

Remote controller operation	Operation condition
Trunk open	<ul style="list-style-type: none">• Press and hold the trunk open button for 0.4 second or more*• Ignition switch is except the ON position• Vehicle speed is less than 5 km/h (3 MPH)

*: Pattern of trunk open button can be selected using CONSULT. Refer to [DLK-37, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

PANIC ALARM FUNCTION

When ignition switch is OFF, BCM transmits theft warning horn request signal to IPDM E/R. Then, IPDM E/R turns on and off horn intermittently.

The horn sounds intermittently.

The alarm automatically turns off.

- After 25 seconds
- When BCM receives any signal from Intelligent Key

How to Change Panic Alarm Operation Mode

Refer to [DLK-37, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

HAZARD AND BUZZER REMINDER FUNCTION

For the operation check, BCM blinks hazard warning lamps (lock: 1 time, unlock: 2 times) and sounds Intelligent Key warning buzzer (lock: 1 time, unlock: 2 times) when door lock or unlock operates by each remote controller button operation of Intelligent Key.

How to Change Hazard and Buzzer Reminder Mode

Refer to [DLK-37, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

AUTO DOOR LOCK FUNCTION

After door is unlocked by Intelligent Key button operation and if 30 seconds or more passes without performing the following operation, all doors are automatically locked. However, operation check function does not activate.

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DLK

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

- | | |
|---------------------|--|
| Operating condition | <ul style="list-style-type: none"> • Door switch is ON (door is open) • BCM receives lock signal • Push switch is pressed |
|---------------------|--|

Auto door lock mode can be changed by the "AUTO LOCK SET" mode in "WORK SUPPORT". Refer to [DLK-37, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

LIST OF OPERATION RELATED PARTS

Parts marked with × are the parts related to operation.

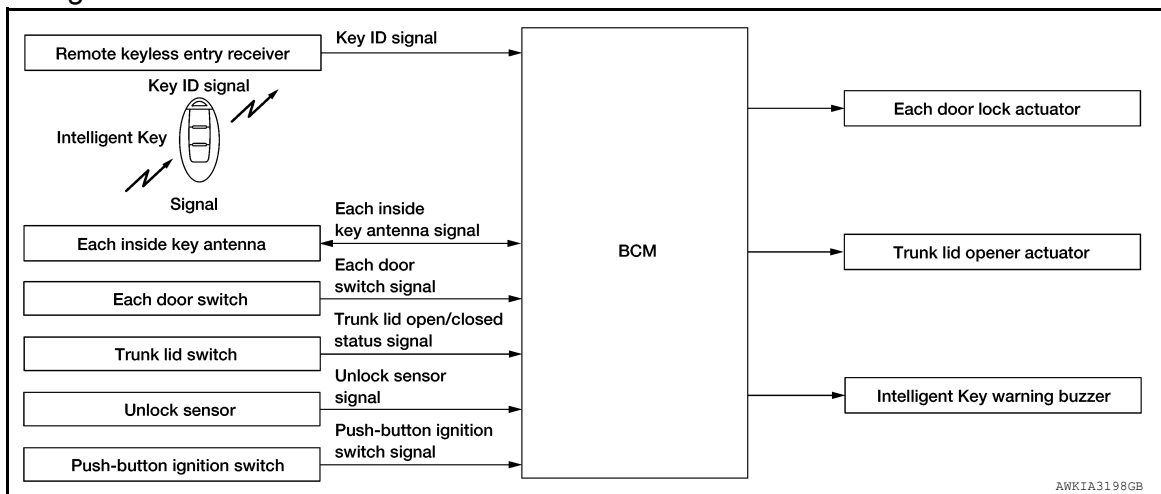
Remote keyless entry functions	Intelligent Key	Remote keyless entry receiver	Door switch	Door lock actuator	Push-button ignition switch	Intelligent Key warning buzzer	CAN communication system	BCM	Combination meter	Hazard warning lamp	Trunk lid opener actuator	Trunk lid switch	IPDM E/R	Horn
Door lock/unlock function by remote control button	×	×	×	×	×			×						
Trunk open function	×	×			×	×	×	×			×	×		
Hazard and buzzer reminder function	×	×				×	×	×	×	×				
Auto door lock function	×	×	×	×	×			×						
Panic alarm function	×						×	×					×	×

KEY REMINDER FUNCTION

KEY REMINDER FUNCTION : System Description

INFOID:000000011536436

System Diagram



BASIC OPERATION

Key reminder is the function that prevents the key from being left in the vehicle. Key reminder has the following 3 functions.

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Key reminder function	Operation condition	Operation
Driver side door closed*	Right after driver side door is closed under the following conditions <ul style="list-style-type: none"> • Intelligent Key is inside the vehicle • Driver side door is opened • Driver side door is in unlock state 	All doors unlock
Door is open or closed	Right after all doors are closed under the following conditions <ul style="list-style-type: none"> • Door lock/unlock switch or driver side door lock knob are operated • Intelligent Key is inside the vehicle • Any door is opened • All doors are locked. 	<ul style="list-style-type: none"> • All doors unlock • Honk Intelligent Key warning buzzer
Trunk is closed	Right after trunk is closed under the following conditions <ul style="list-style-type: none"> • Intelligent Key is inside trunk room • All doors are closed • All doors are locked 	<ul style="list-style-type: none"> • Trunk open • Honk Intelligent Key warning buzzer

*:When closing the door if something comes into contact with the door lock switch it might activate the door locks accidentally, but the unlock operation will override this.

NOTE:

The above function operates when the Intelligent Key is inside the vehicle. However, there may be times when the Intelligent Key cannot be detected, and this function does not operate when the Intelligent Key is on the instrument panel, rear parcel shelf, or in the glove box. Also, this system sometimes does not operate if the Intelligent Key is in the door pocket for the open door.

WARNING FUNCTION

WARNING FUNCTION : System Description

INFOID:0000000011536437

OPERATION DESCRIPTION

The warning function are as per the following items and are given to the user as warning information and warnings using combinations of Intelligent Key warning buzzer, combination meter buzzer, KEY warning lamp, shift P warning lamp and engine start operation indicator lamp.

- Intelligent Key system malfunction
- OFF position warning
- P position warning
- ACC warning
- Take away warning
- Door lock operation warning
- Engine start information
- Intelligent Key low battery warning
- Key ID warning

OPERATION CONDITION

Operation condition of warning and information is as per the following table.

Warning/Information functions	Operation procedure
Intelligent Key system malfunction	A malfunction is detected on BCM and key warning lamp turns ON

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Warning/Information functions		Operation procedure
OFF position warning	For internal	When condition A, B or condition C is satisfied <ul style="list-style-type: none"> • Condition A - Ignition switch: ACC position - Door switch (driver side): ON (Door is open) • Condition B - Turn ignition switch from ON to OFF while door is open • Condition C - Intelligent Key backside is contacted to push-button ignition switch while brake pedal is depressed and ignition switch is LOCK or OFF (When the Intelligent Key battery is discharged) - Door switch (driver side): ON (Door is open)
	For external*	OFF position warning (For internal) is in active mode, driver side door has been closed. NOTE: OFF position (For external) active only when each of the sequence has occurred as below: P position warning → ACC warning → OFF position warning (For internal) → OFF position warning (For internal)
P position warning	For internal	<ul style="list-style-type: none"> • Shift position: Other than P • Engine is stopped (Ignition switch is turned from ON to OFF)
	For external	<ul style="list-style-type: none"> • P position warning (For internal) operates • Door switch: ON to OFF (Door is open to close) • Intelligent Key cannot be detected inside the vehicle
ACC warning		<ul style="list-style-type: none"> • After P position warning operates, or when ignition switch is turned ON immediately after P position warning operates • Ignition switch: ACC
Take away warning	Door status changes from open to close	<ul style="list-style-type: none"> • Ignition switch: Other than LOCK and OFF • Door switch: ON to OFF (Door status changes from open to close) • Registered Intelligent Key is not detected inside the vehicle
	Door status is open	<ul style="list-style-type: none"> • Ignition switch: Other than LOCK and OFF • Door switch: ON (Door is open) • Registered Intelligent Key is not detected inside the vehicle during Key ID verification for 5 seconds
	Push-button ignition switch operation	<ul style="list-style-type: none"> • Ignition switch: Other than LOCK position • Push-button ignition switch is pressed • Registered Intelligent Key is not detected inside the vehicle
Door lock operation warning		Door lock operation is requested while door lock operation condition of door request switch is not satisfied
Engine start information	Ignition switch is ON position	<ul style="list-style-type: none"> • Ignition switch: ON position • Shift position: P • Engine is stopped
	Ignition switch is other than ON position	<ul style="list-style-type: none"> • Ignition switch: Other than ON • Shift position: P • Intelligent Key is in the passenger room after driver door is opened and closed
	Ignition switch is ON position to OFF position	<ul style="list-style-type: none"> • Ignition switch: ON position to OFF position • Shift position: P position NOTE: Engine start information turns ON for several seconds and then turns OFF, when ignition switch is turned to the ON position from the OFF position. Engine start information does not turn ON until opening and closing of driver door is detected again.
Intelligent Key low battery warning		BCM detects that Intelligent Key is low battery, after ignition switch is turned ON
Key ID warning		<ul style="list-style-type: none"> • Push-button ignition switch is pressed • Registered Intelligent Key is not detected inside the vehicle

*: M/T models do not apply.

WARNING METHOD

The following table shows the alarm or warning methods with chime.

SYSTEM (INTELLIGENT KEY SYSTEM)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

Warning/Information functions		"KEY" warning lamp	Shift P warning lamp	Warning chime		Engine start operation indicator lamp
				Combination meter buzzer	Intelligent Key warning buzzer	
Intelligent Key system malfunction		Indicate	—	—	—	—
OFF position warning	For internal	—	—	Activate	—	—
	For external	—	—	—	Activate	—
P position warning	For internal	Blink (yellow)	Indicate	Activate	—	—
	For external		—	—	Active	—
ACC warning		—	—	Activate	—	—
Take away warning	Door is open to close	Blink (yellow)	—	Activate	Activate	—
	Door is open		—	—	—	—
	Push-ignition switch operation		—	Activate	—	—
Door lock operation warning		—	—	—	Activate	—
Engine start information		—	—	—	—	Indicate
Intelligent Key low battery warning		Blink (green)	—	—	—	—
Key ID warning		Blink (yellow)	—	—	—	—

LIST OF OPERATION RELATED PARTS

Parts marked with × are the parts related to operation.

Function		Intelligent Key	Push-button ignition switch	Door switch	Door request switch	Inside key antenna	Outside key antenna	Intelligent Key warning buzzer	Combination meter buzzer	CAN communication system	BCM	Shift P warning lamp	Engine start operation indicator lamp	"KEY" warning lamp
Intelligent Key system malfunction										×	×			×
OFF position warning	For internal		×						×	×	×			
	For external		×					×			×			
P position warning			×						×	×	×	×		×
ACC warning			×						×	×	×			
Take away warning	Door is open or close	×		×		×		×	×	×	×			×
	Door is open	×		×		×				×	×			×
	Push-button ignition switch operation	×	×			×			×	×	×			×
Door lock operation warning		×		×	×	×	×	×			×			
Key ID warning			×			×				×	×			×
Engine start information		×	×			×				×	×		×	
Intelligent Key low battery warning		×				×				×	×			×

SYSTEM (TRUNK LID OPENER SYSTEM)

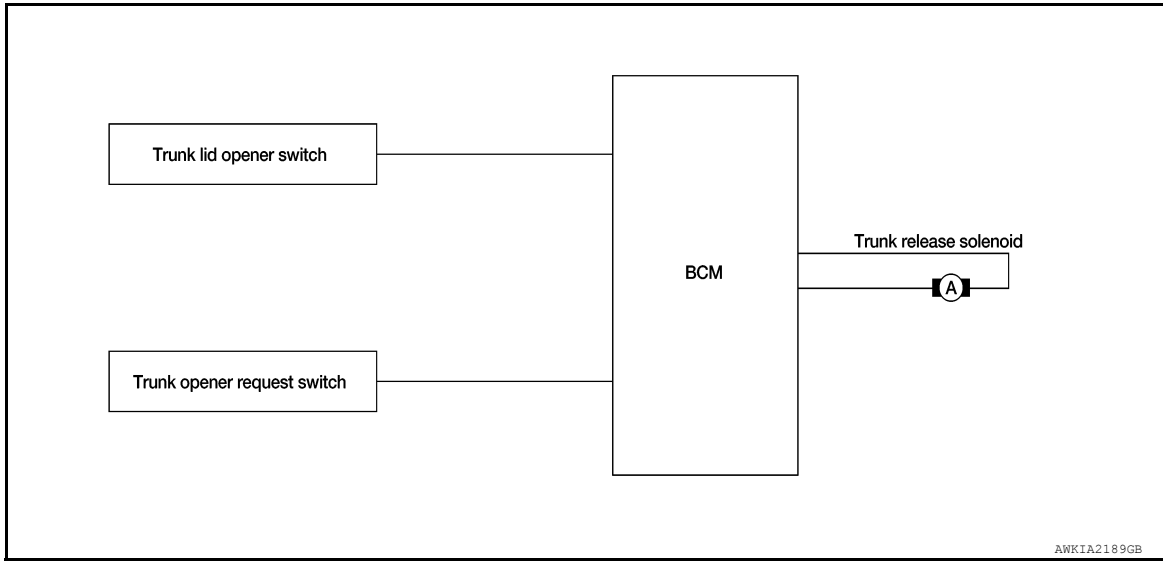
< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

SYSTEM (TRUNK LID OPENER SYSTEM)

System Diagram

INFOID:000000011536438



AWKIA2189GB

System Description

INFOID:000000011536439

TRUNK LID OPENER OPERATION

When trunk lid opener switch is ON, BCM operates trunk lid opener actuator.

OPERATION CONDITION

If the following conditions are satisfied, trunk open operation is performed.

Trunk lid opener switch operation	Operation condition
Trunk lid open	<ul style="list-style-type: none"> Trunk lid opener switch is ON Vehicle speed is less than 5 km/h (3 MPH)

SYSTEM (INTEGRATED HOMELINK TRANSMITTER)

< SYSTEM DESCRIPTION >

[WITH INTELLIGENT KEY SYSTEM]

SYSTEM (INTEGRATED HOMELINK TRANSMITTER)

System Description

INFOID:000000011898667

Item	Function
Integrated Homelink® transmitter	A maximum of 3 radio signals can be stored and transmitted to operate the garage door, etc.

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DLK

DIAGNOSIS SYSTEM (BCM)

[WITH INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:000000011897883

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

Direct Diagnostic Mode	Description
ECU Identification	The BCM part number is displayed.
Self Diagnostic Result	The BCM self diagnostic results are displayed.
Data Monitor	The BCM input/output data is displayed in real time.
Active Test	The BCM activates outputs to test components.
Work support	The settings for BCM functions can be changed.
Configuration	<ul style="list-style-type: none"> • The vehicle specification can be read and saved. • The vehicle specification can be written when replacing BCM.
CAN DIAG SUPPORT MNTR	The result of transmit/receive diagnosis of CAN communication is displayed.

SYSTEM APPLICATION

BCM can perform the following functions.

System	Sub System	Direct Diagnostic Mode						
		ECU Identification	Self Diagnostic Result	Data Monitor	Active Test	Work support	Configuration	CAN DIAG SUPPORT MNTR
Door lock	DOOR LOCK			x	x	x		
Rear window defogger	REAR DEFOGGER			x	x			
Warning chime	BUZZER			x	x			
Interior room lamp timer	INT LAMP			x	x	x		
Exterior lamp	HEAD LAMP			x	x	x		
Wiper and washer	WIPER			x	x	x		
Turn signal and hazard warning lamps	FLASHER			x	x	x		
Air conditioner	AIR CONDITIONER			x				
Intelligent Key system	INTELLIGENT KEY		x	x	x	x		
Combination switch	COMB SW			x				
BCM	BCM	x	x			x	x	x
Immobilizer	IMMU		x	x	x	x		
Interior room lamp battery saver	BATTERY SAVER			x	x	x		
Trunk open	TRUNK			x				
Vehicle security system	THEFT ALM			x	x	x		
RAP system	RETAINED PWR			x				
Signal buffer system	SIGNAL BUFFER			x				
TPMS	AIR PRESSURE MONITOR		x	x	x	x		

DIAGNOSIS SYSTEM (BCM)

[WITH INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

DOOR LOCK

DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)

INFOID:000000011897885

DATA MONITOR

Monitor Item [Unit]	Description
REQ SW -DR [On/Off]	Indicates condition of door request switch LH.
REQ SW -AS [On/Off]	Indicates condition of door request switch RH.
REQ SW -BD/TR [On/Off]	Indicates condition of trunk open switch.
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.
DOOR SW-RR [On/Off]	Indicates condition of rear door switch RH.
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.
DOOR SW-BK [On/Off]	Indicates condition of trunk switch.
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch.
CDL UNLOCK SW [On/Off]	Indicates condition of unlock signal from door lock and unlock switch.
KEY CYL LK-SW [On/Off]	Indicates condition of lock signal from door key cylinder switch.
KEY CYL UN-SW [On/Off]	Indicates condition of unlock signal from door key cylinder switch.

ACTIVE TEST

Test Item	Description
DOOR LOCK	This test is able to check door lock operation [OTR ULK/AS UNLK/DR UNLK/ALL UNLK/ALL LOCK].

WORK SUPPORT

Support Item	Setting	Description
DOOR LOCK-UNLOCK SET	On*	Automatic door locks function ON.
	Off	Automatic door locks function OFF.
AUTOMATIC LOCK/UNLOCK SELECT	Lock/Unlock*	Automatic door locks function operates in lock and unlock.
	Lock Only	Automatic door locks function operates in lock only.
	Unlock Only	Automatic door locks function operates in unlock only.
	Off	Automatic door locks function OFF.
AUTOMATIC DOOR LOCK SELECT	P RANGE	Doors lock automatically when shifted out of Park (P).
	VH SPD*	Doors lock automatically when vehicle speed reaches 24 km/h (15 mph).
AUTOMATIC DOOR UNLOCK SELECT	MODE6*	Drivers door unlocks automatically when key is removed.
	MODE5	Drivers door unlocks automatically when shifted into Park (P).
	MODE4	Drivers door unlocks automatically when ignition is switched from ON to OFF.
	MODE3	Doors unlock automatically when key is removed.
	MODE2	Doors unlock automatically when shifted into Park (P).
	MODE1	Doors unlock automatically when ignition is switched from ON to OFF.

*: Initial setting

INTELLIGENT KEY

INTELLIGENT KEY : CONSULT Function (BCM - INTELLIGENT KEY)

INFOID:000000011897887

SELF DIAGNOSTIC RESULT

Refer to [BCS-49, "DTC Index"](#).

DIAGNOSIS SYSTEM (BCM)

[WITH INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

DATA MONITOR

Monitor Item [Unit]	Main	Description
REQ SW -DR [On/Off]	×	Indicates condition of door request switch LH.
REQ SW -AS [On/Off]	×	Indicates condition of door request switch RH.
REQ SW -BD/TR [On/Off]	×	Indicates condition of trunk open switch.
PUSH SW [On/Off]		Indicates condition of push-button ignition switch.
CLUCH SW [On/Off]	×	Indicates condition of clutch switch.
BRAKE SW 1 [On/Off]	×	Indicates condition of brake switch.
BRAKE SW 2 [On/Off]		Indicates condition of brake switch.
DETE/CANCL SW [On/Off]	×	Indicates condition of P (park) position.
SFT PN/N SW [On/Off]	×	Indicates condition of P (park) or N (neutral) position.
UNLK SEN -DR [On/Off]	×	Indicates condition of driver door unlock sensor.
PUSH SW -IPDM [On/Off]		Indicates condition of push-button ignition switch received from IPDM E/R on CAN communication line.
IGN RLY1 -F/B [On/Off]		Indicates condition of ignition relay 1 received from IPDM E/R on CAN communication line.
DETE SW -IPDM [On/Off]		Indicates condition of detent switch received from TCM on CAN communication line.
SFT PN -IPDM [On/Off]		Indicates condition of P (park) or N (neutral) position from TCM on CAN communication line.
SFT P -MET [On/Off]		Indicates condition of P (park) position from TCM on CAN communication line.
SFT N -MET [On/Off]		Indicates condition of N (neutral) position from IPDM E/R on CAN communication line.
ENGINE STATE [Stop/Start/Crank/Run]	×	Indicates condition of engine state from ECM on CAN communication line.
VEH SPEED 1 [mph/km/h]	×	Indicates condition of vehicle speed signal received from ABS on CAN communication line.
VEH SPEED 2 [mph/km/h]	×	Indicates condition of vehicle speed signal received from combination meter on CAN communication line.
DOOR STAT-DR [LOCK/READY/UNLK]	×	Indicates condition of driver side door status.
DOOR STAT-AS [LOCK/READY/UNLK]	×	Indicates condition of passenger side door status.
ID OK FLAG [Set/Reset]		Indicates condition of Intelligent Key ID.
PRMT ENG STRT [Set/Reset]		Indicates condition of engine start possibility.
RKE OPE COUN1 [0-19]	×	When remote keyless entry receiver receives the signal transmitted while operating on Intelligent Key, the numerical value start changing.
RKE OPE COUN2 [0-19]	×	When remote keyless entry receiver receives the signal transmitted while operating on Intelligent Key, the numerical value start changing.
TRNK/HAT MNTR [On/Off]		Indicates condition of trunk lid switch.
RKE-LOCK [On/Off]		Indicates condition of lock signal from Intelligent Key.
RKE-UNLOCK [On/Off]		Indicates condition of unlock signal from Intelligent Key.
RKE-TR/BD [On/Off]		Indicates condition of trunk open signal from Intelligent Key.
RKE-PANIC [On/Off]		Indicates condition of panic signal from Intelligent Key.
RKE-MODE CHG [On/Off]		Indicates condition of mode change signal from Intelligent Key.

ACTIVE TEST

DIAGNOSIS SYSTEM (BCM)

[WITH INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

Test Item	Description
INSIDE BUZZER	This test is able to check combination meter warning chime operation [Take Out/Knob/Key/Off].
LCD	This test is able to check combination meter display information [Off/LK WN/OUTKEY/NO KY/BATT/INSRT/SFT P/ROTAT/ID NG/B&P I/B&P N].
BATTERY SAVER	This test is able to check battery saver operation [On/Off].
ENGINE SW ILLUMI	This test is able to check push-button ignition switch START indicator operation [On/Off].
PUSH SWITCH INDICATOR	This test is able to check push-button ignition switch indicator operation [On/Off].
TRUNK/BACK DOOR	This test is able to check trunk actuator operation [Open].
INT LAMP INDICATOR	This test is able to check interior room lamp operation [On/Off].
FLASHER	This test is able to check hazard lamp operation [LH/RH/Off].
OUTSIDE BUZZER	This test is able to check Intelligent Key warning buzzer operation [On/Off].
HORN	This test is able to check horn operation [On].
P RANGE	This test is able to check CVT shift selector illumination operation [On/Off].

WORK SUPPORT

Support Item	Setting	Description	
LOCK/UNLOCK BY I-KEY	On*	Door lock/unlock function from Intelligent Key ON.	
	Off	Door lock/unlock function from Intelligent Key OFF.	
TRUNK/GLASS HATCH OPEN	On*	Buzzer reminder function from trunk opener switch.	
	Off	No buzzer reminder function from trunk opener switch.	
ANTI KEY LOCK IN FUNCTI	On*	Anti lock out setting ON.	
	Off	Anti lock out setting OFF.	
ANS BACK I-KEY UNLOCK	Off	No buzzer reminder when doors are unlocked with request switch.	
	On*	Buzzer reminder when doors are unlocked with request switch.	
ANS BACK I-KEY LOCK	Horn Chirp	Horn chirp reminder when doors are locked with request switch.	
	Buzzer*	Buzzer reminder when doors are locked with request switch.	
	Off	No reminder when doors are locked with request switch.	
HORN WITH KEYLESS LOCK	Off	Horn chirp reminder when doors are locked with Intelligent Key.	
	On*	No horn chirp reminder when doors are locked with Intelligent Key.	
HAZARD ANSWER BACK	Lock/Unlock*	Hazard warning lamp activation when doors are locked/unlocked with Intelligent Key or request switch.	
	Unlock Only	Hazard warning lamp activation when doors are unlocked with Intelligent Key or request switch.	
	Lock Only	Hazard warning lamp activation when doors are locked with Intelligent Key or request switch.	
	Off	No hazard warning lamp activation when doors are locked/unlocked with Intelligent Key or request switch.	
INSIDE ANT DIAGNOSIS	—	This function allows inside key antenna self-diagnosis.	
CONFIRM KEY FOB ID	—	Intelligent Key ID code can be checked.	
SHORT CRANKING OUTPUT	Start	70 msec	Starter motor operation duration time setting.
		100 msec	
		200 msec	
	End	—	

DIAGNOSIS SYSTEM (BCM)

[WITH INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

Support Item	Setting		Description
PANIC ALARM SET	MODE 3	1.5 sec	Intelligent Key panic alarm button setting.
	MODE 2	OFF	
	MODE 1*	0.5 sec	
LO-BATT OF KEY FOB WARN	On*		Intelligent Key low battery warning ON.
	Off		Intelligent Key low battery warning OFF.
AUTO LOCK SET	MODE7	5 min	Auto door lock time setting.
	MODE6	4 min	
	MODE5	3 min	
	MODE4	2 min	
	MODE3*	1 min	
	MODE2	30 sec	
	MODE1	Off	
TRUNK OPEN DELAY	MODE 3	1.5 sec	Intelligent Key trunk open button setting.
	MODE 2	OFF	
	MODE 1*	0.5 sec	

*: Initial Setting

TRUNK

TRUNK : CONSULT Function (BCM - TRUNK)

INFOID:000000011897888

DATA MONITOR

Monitor Item [Unit]	Description
PUSH SW [On/Off]	Indicates condition of push-button ignition switch.
UNLK SEN -DR [On/Off]	Indicates condition of driver door unlock sensor.
VEH SPEED 1 [km/h]	Indicates vehicle speed signal received from ABS on CAN communication line.
TR/BD OPEN SW [On/Off]	Indicates condition of trunk open switch.
TRNK/HAT MNTR [On/Off]	Indicates condition of trunk lid switch.
RKE-TR/BD [On/Off]	Indicates condition of trunk open signal from Intelligent Key.

ECU DIAGNOSIS INFORMATION

BCM

List of ECU Reference

INFOID:0000000011536444

ECU	Reference
BCM	BCS-29, "Reference Value"
	BCS-46, "Fail-safe"
	BCS-48, "DTC Inspection Priority Chart"
	BCS-49, "DTC Index"

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POWER DOOR LOCK SYSTEM

[WITH INTELLIGENT KEY SYSTEM]

< WIRING DIAGRAM >

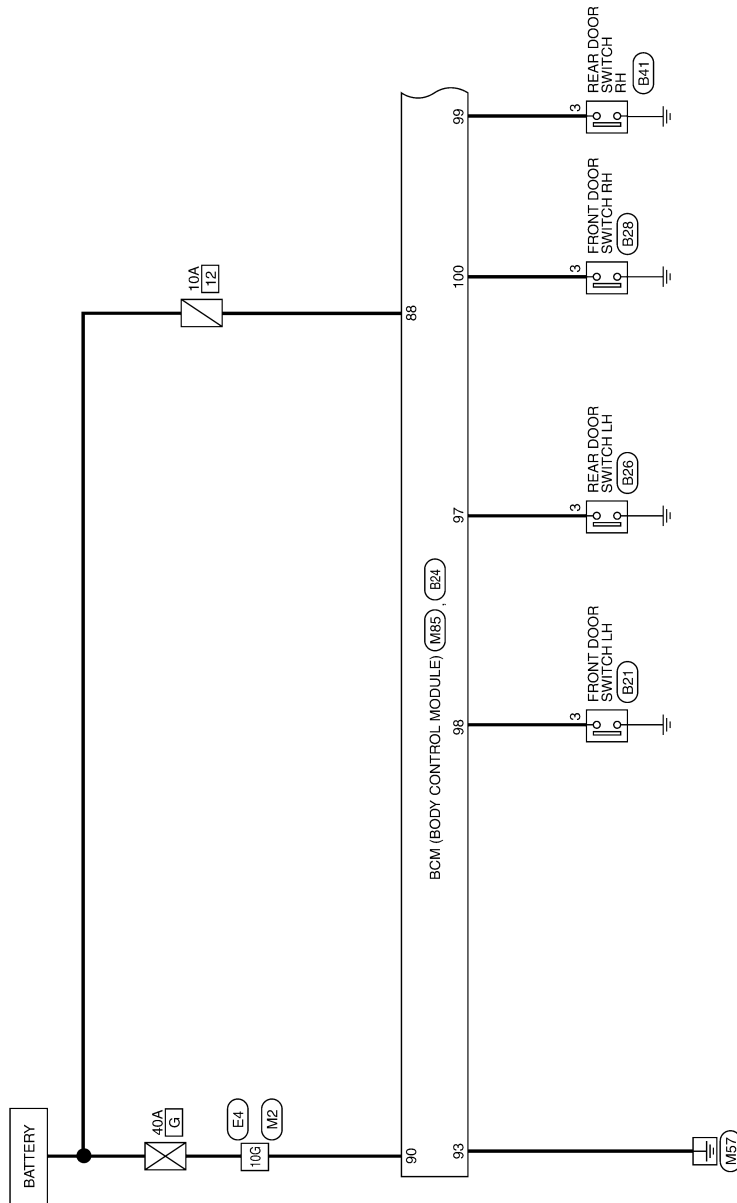
WIRING DIAGRAM

POWER DOOR LOCK SYSTEM

Wiring Diagram

INFOID:000000011536445

POWER DOOR LOCK SYSTEM - WITH INTELLIGENT KEY SYSTEM



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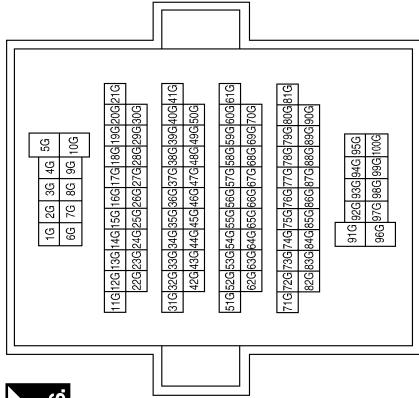
POWER DOOR LOCK SYSTEM

[WITH INTELLIGENT KEY SYSTEM]

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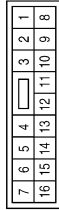
POWER DOOR LOCK SYSTEM CONNECTORS - WITH INTELLIGENT KEY SYSTEM

Connector No.	M2
Connector Name	WIRE TO WIRE
Connector Color	WHITE



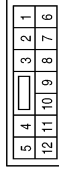
Terminal No.	10G	Y	Signal Name	-
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Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Color	WHITE



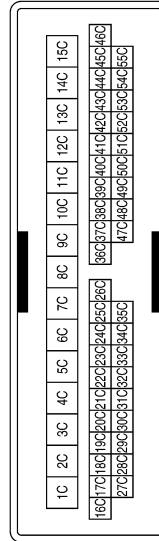
Terminal No.	12	O	Signal Name	-
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Connector No.	M8
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	10	O	Signal Name	-
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Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3C	SB	-
4C	O	-
13C	B	-
42C	GR	-
48C	L	-
49C	V	-
51C	R	-
52C	BR	-

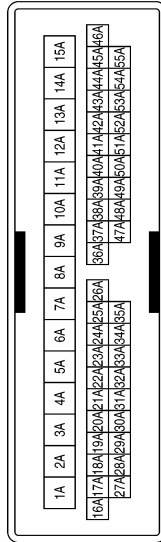
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POWER DOOR LOCK SYSTEM

[WITH INTELLIGENT KEY SYSTEM]

< WIRING DIAGRAM >

Connector No.	M74
Connector Name	WIRE TO WIRE
Connector Color	WHITE



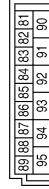
Terminal No.	Color of Wire	Signal Name
3A	SB	-
4A	O	-
12A	B	-
42A	GR	-
52A	BR	-

Connector No.	M84
Connector Name	BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY SYSTEM)
Connector Color	BLACK



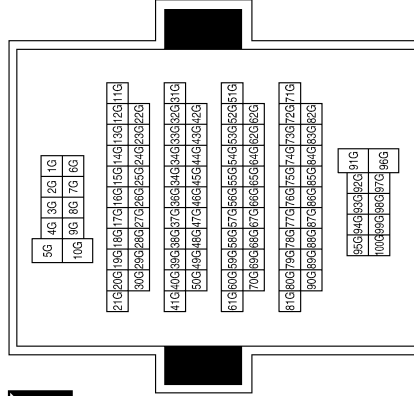
Terminal No.	Color of Wire	Signal Name
7	L	KEY CYLINDER UNLOCK SW
8	V	KEY CYLINDER LOCK SW
12	GR	CENTRAL DOOR LOCK SW
13	BR	CENTRAL DOOR UNLOCK SW
31	R	DOOR LOCK STATUS SW (DR)
39	L	CAN-H
40	P	CAN-L

Connector No.	M85
Connector Name	BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY SYSTEM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
86	SB	DOOR UNLOCK OUTPUT (AS)
88	O	BATTERY (FUSE)
90	Y	BATTERY (F/L)
93	B	GND (POWER)
94	SB	DOOR UNLOCK COMMON (DR)
95	O	DOOR LOCK OUTPUT (ALL)

Connector No.	E4
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
10G	G	-

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

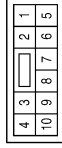
DLK

POWER DOOR LOCK SYSTEM

[WITH INTELLIGENT KEY SYSTEM]

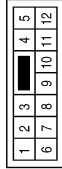
< WIRING DIAGRAM >

Connector No.	B20
Connector Name	WIRE TO WIRE
Connector Color	WHITE



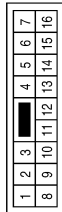
Terminal No.	Color of Wire	Signal Name
1	V	-
5	Y	-

Connector No.	B8
Connector Name	WIRE TO WIRE
Connector Color	WHITE



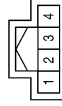
Terminal No.	Color of Wire	Signal Name
10	V	-

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Color	WHITE



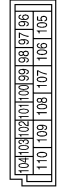
Terminal No.	Color of Wire	Signal Name
12	SB	-

Connector No.	B26
Connector Name	REAR DOOR SWITCH LH
Connector Color	WHITE



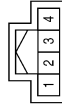
Terminal No.	Color of Wire	Signal Name
3	GR	-

Connector No.	B24
Connector Name	BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY SYSTEM)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
97	GR	DOOR SW (RL)
98	Y	DOOR SW (DR)
99	P	DOOR SW (RR)
100	R	DOOR SW (AS)
105	G	DOOR UNLOCK OUTPUT (RR,RL)

Connector No.	B21
Connector Name	FRONT DOOR SWITCH LH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	Y	-

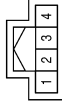
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POWER DOOR LOCK SYSTEM

[WITH INTELLIGENT KEY SYSTEM]

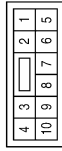
< WIRING DIAGRAM >

Connector No.	B41
Connector Name	REAR DOOR SWITCH RH
Connector Color	WHITE



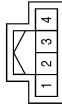
Terminal No.	Color of Wire	Signal Name
3	P	-

Connector No.	B31
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	SB	-
5	P	-

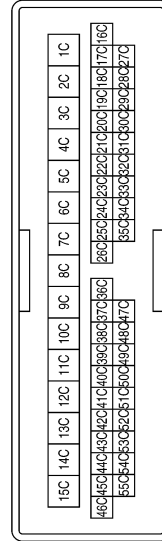
Connector No.	B28
Connector Name	FRONT DOOR SWITCH RH
Connector Color	WHITE



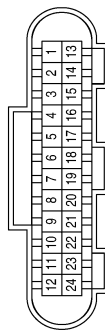
Terminal No.	Color of Wire	Signal Name
3	R	-

Terminal No.	Color of Wire	Signal Name
3C	L	-
4C	BR	-
13C	B	-
42C	L	-
48C	Y	-
49C	R	-
51C	W	-
52C	BR	-

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Connector No.	B73
Connector Name	JOINT CONNECTOR-B01
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
13	P	-
14	Y	-
15	G	-

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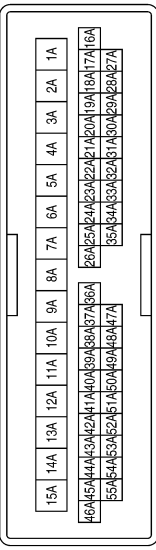
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POWER DOOR LOCK SYSTEM

< WIRING DIAGRAM >


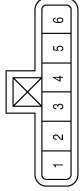
[WITH INTELLIGENT KEY SYSTEM]

Connector No.	D101
Connector Name	WIRE TO WIRE
Connector Color	WHITE


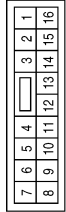
Terminal No.	Color of Wire	Signal Name
3A	Y	-
4A	V	-
12A	B	-
42A	Y	-
52A	BR	-

Connector No.	D9
Connector Name	FRONT DOOR LOCK ASSEMBLY LH
Connector Color	GRAY

Terminal No.	Color of Wire	Signal Name
1	BR	-
2	L	-
3	W	-
4	B	-
5	Y	-
6	R	-

Connector No.	D5
Connector Name	MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH
Connector Color	WHITE


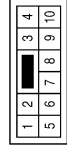



Terminal No.	Color of Wire	Signal Name
1	B	GND
3	L	LOCK SW
15	BR	UNLOCK SW

Terminal No.	Color of Wire	Signal Name
1	BR	-
2	L	-
3	W	-
4	B	-
5	Y	-
6	R	-


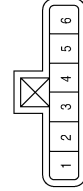
Terminal No.	Color of Wire	Signal Name
1	B	GND
3	L	LOCK SW
15	BR	UNLOCK SW

Connector No.	D201
Connector Name	WIRE TO WIRE
Connector Color	WHITE


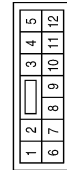
Terminal No.	Color of Wire	Signal Name
1	V	-
5	G	-

Connector No.	D107
Connector Name	FRONT DOOR LOCK ACTUATOR RH
Connector Color	GRAY

Terminal No.	Color of Wire	Signal Name
5	V	-
6	Y	-

Connector No.	D104
Connector Name	POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH
Connector Color	WHITE

Terminal No.	Color of Wire	Signal Name
1	Y	-
2	BR	-
3	B	-

Terminal No.	Color of Wire	Signal Name
1	V	-
5	G	-

Terminal No.	Color of Wire	Signal Name
5	V	-
6	Y	-

Terminal No.	Color of Wire	Signal Name
1	Y	-
2	BR	-
3	B	-

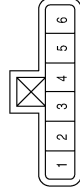
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POWER DOOR LOCK SYSTEM

[WITH INTELLIGENT KEY SYSTEM]

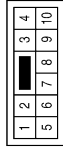
< WIRING DIAGRAM >

Connector No.	D302
Connector Name	REAR DOOR LOCK ACTUATOR RH
Connector Color	GRAY



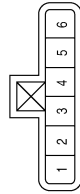
Terminal No.	Color of Wire	Signal Name
5	V	-
6	G	-

Connector No.	D301
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	V	-
5	G	-

Connector No.	D202
Connector Name	REAR DOOR LOCK ACTUATOR LH
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
1	V	-
2	G	-

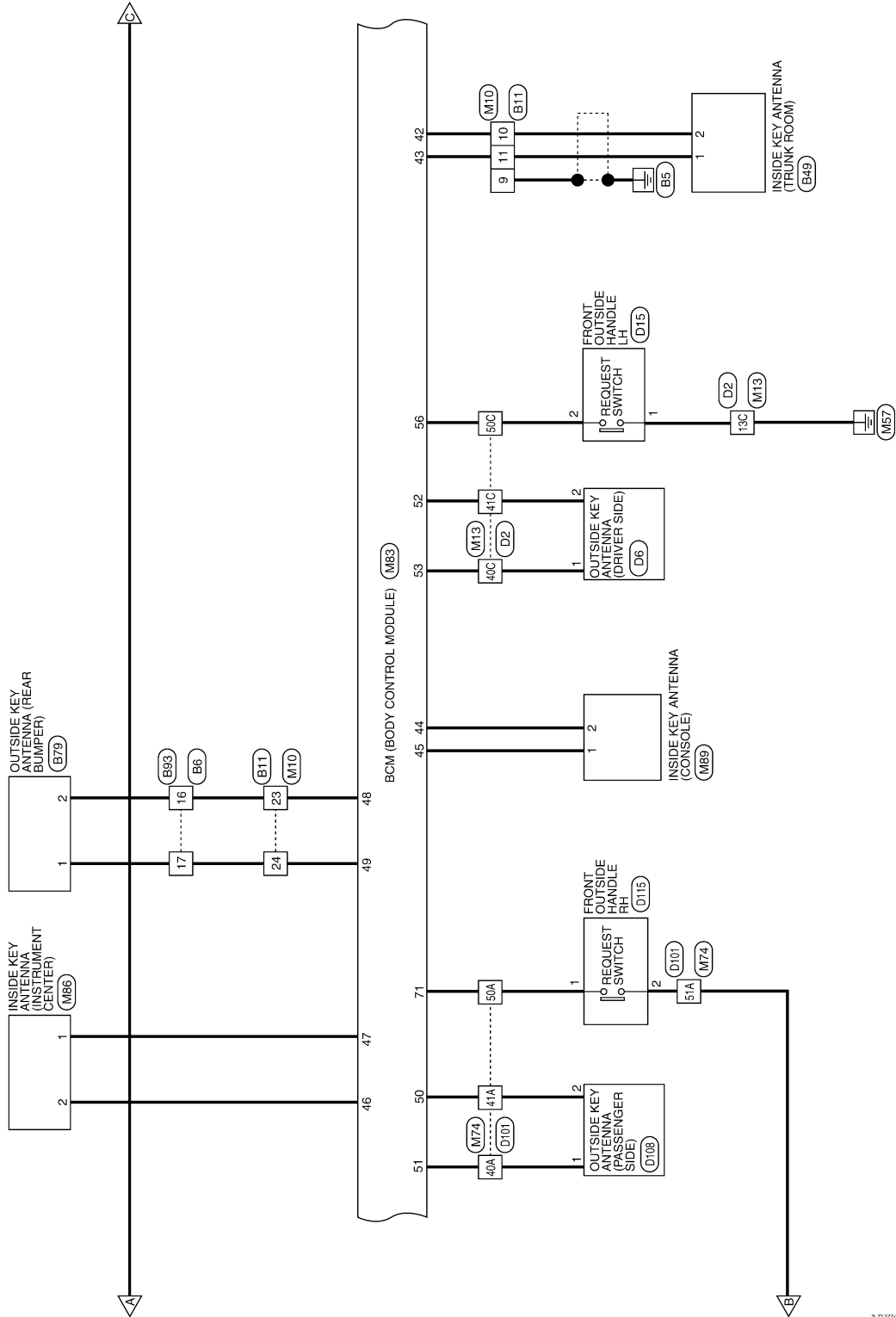
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INTELLIGENT KEY SYSTEM

[WITH INTELLIGENT KEY SYSTEM]

< WIRING DIAGRAM >



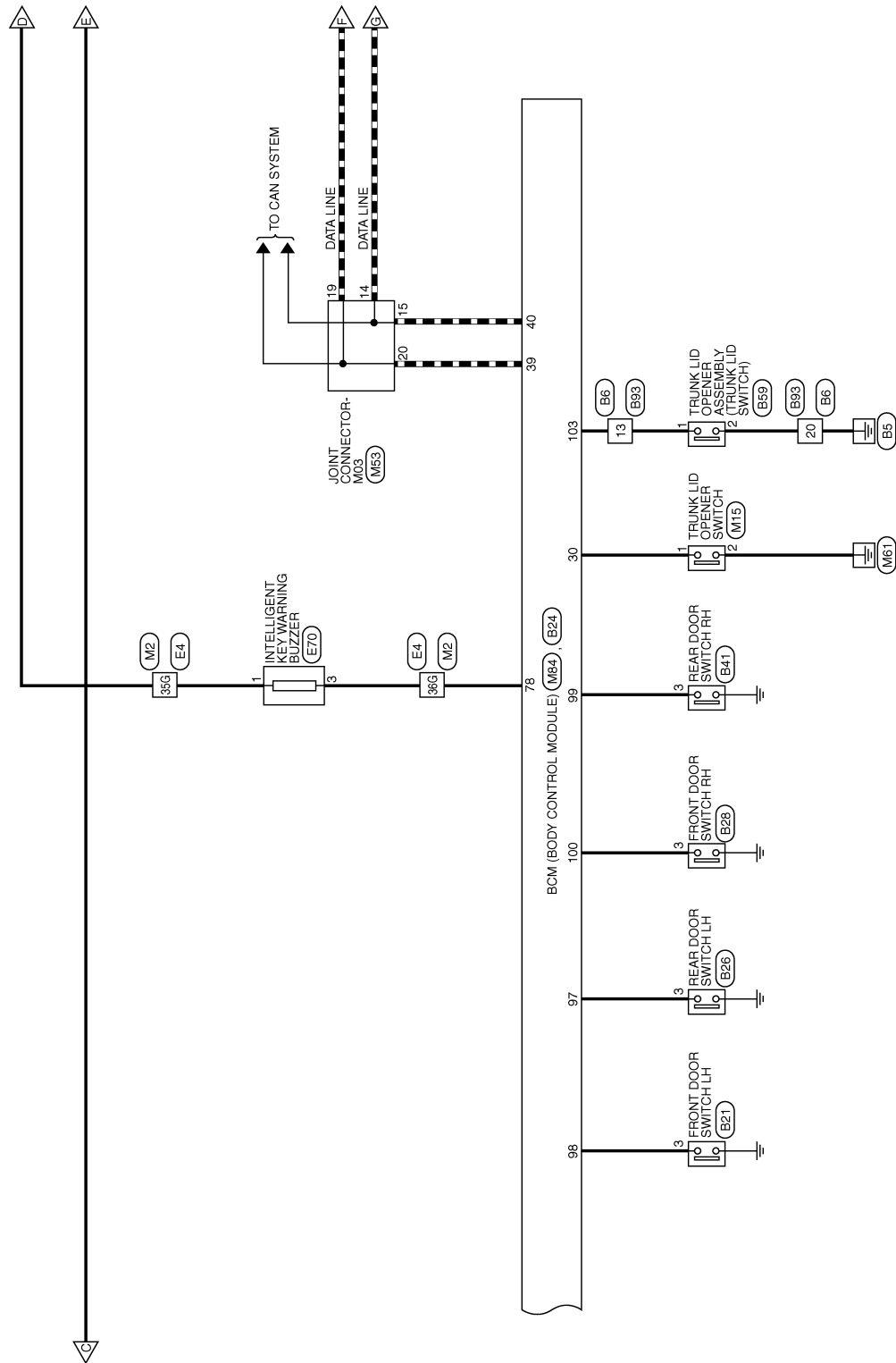
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INTELLIGENT KEY SYSTEM

[WITH INTELLIGENT KEY SYSTEM]

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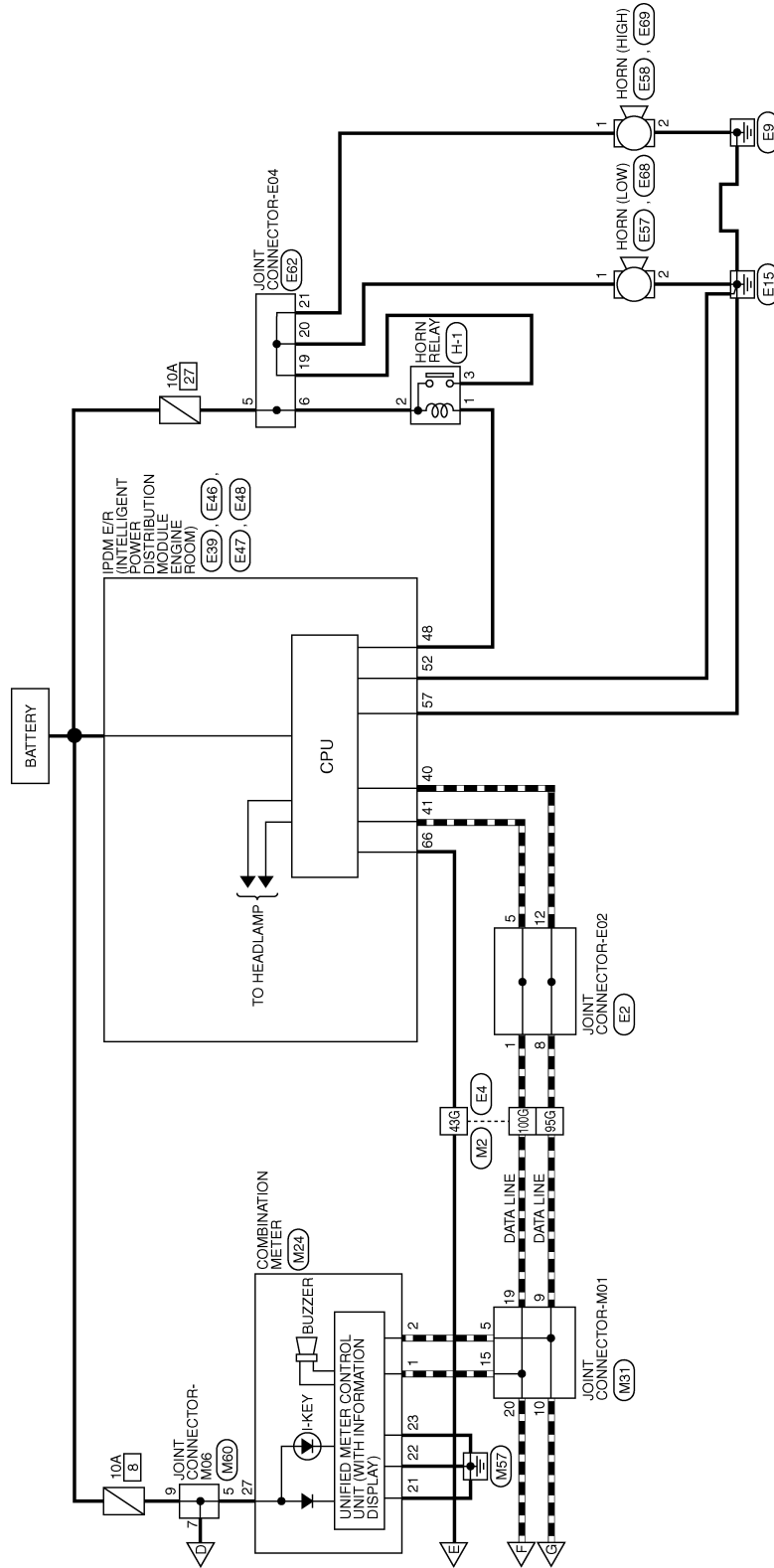


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INTELLIGENT KEY SYSTEM

< WIRING DIAGRAM >

[WITH INTELLIGENT KEY SYSTEM]



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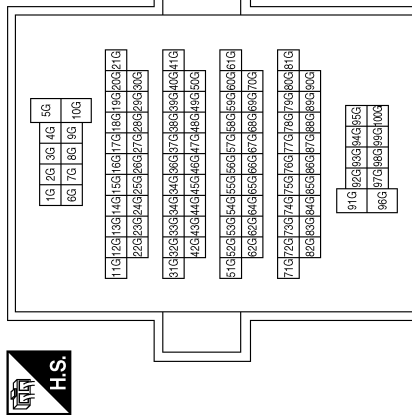
INTELLIGENT KEY SYSTEM

< WIRING DIAGRAM >

[WITH INTELLIGENT KEY SYSTEM]

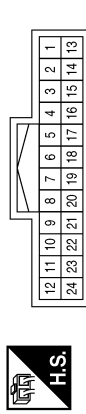
INTELLIGENT KEY SYSTEM CONNECTORS

Connector No.	M2
Connector Name	WIRE TO WIRE
Connector Color	WHITE



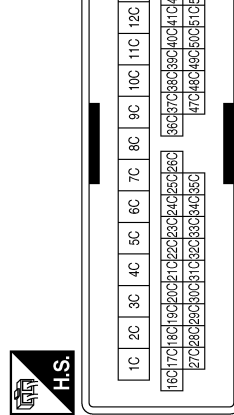
Terminal No.	Color of Wire	Signal Name
10G	Y	-
32G	R	-
34G	V	-
35G	BR	-
36G	W	-
43G	LG	-
95G	P	-
100G	L	-

Connector No.	M10
Connector Name	WIRE TO WIRE
Connector Color	WHITE



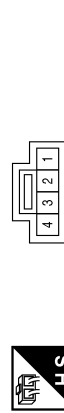
Terminal No.	Color of Wire	Signal Name
10	BR	-
11	Y	-
23	R	-
24	W	-

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Color	WHITE



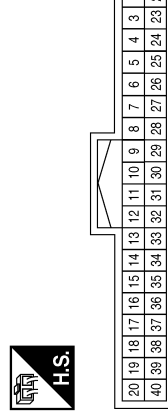
Terminal No.	Color of Wire	Signal Name
13C	B	-
40C	P	-
41C	LG	-
50C	G	-

Connector No.	M15
Connector Name	TRUNK LID OPENER SWITCH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	L	-
2	B	-

Connector No.	M24
Connector Name	COMBINATION METER
Connector Color	WHITE



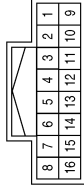
Terminal No.	Color of Wire	Signal Name
1	L	CAN-H
2	P	CAN-L
21	B	GND (ILL)
22	B	GND2 (POWER)
23	B	GND3 (CIRCUIT)
27	LG	BAT

INTELLIGENT KEY SYSTEM

< WIRING DIAGRAM >

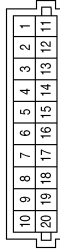
[WITH INTELLIGENT KEY SYSTEM]

Connector No.	M38
Connector Name	CVT SHIFT SELECTOR
Connector Color	WHITE



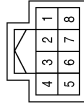
Terminal No.	Color of Wire	Signal Name
12	SB	-
13	P	-

Connector No.	M31
Connector Name	JOINT CONNECTOR-M01
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
5	P	-
9	P	-
10	P	-
15	L	-
19	L	-
20	L	-

Connector No.	M25
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Color	WHITE



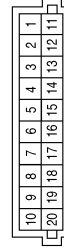
Terminal No.	Color of Wire	Signal Name
1	Y	-
4	B	-
7	V	-
8	LG	-

Connector No.	M71
Connector Name	JOINT CONNECTOR-M05
Connector Color	PINK



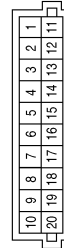
Terminal No.	Color of Wire	Signal Name
11	B	-
12	B	-
15	B	-

Connector No.	M60
Connector Name	JOINT CONNECTOR-M06
Connector Color	BLUE



Terminal No.	Color of Wire	Signal Name
5	LG	-
7	BR	-
9	W	-

Connector No.	M53
Connector Name	JOINT CONNECTOR-M03
Connector Color	PINK



Terminal No.	Color of Wire	Signal Name
14	P	-
15	P	-
19	L	-
20	L	-

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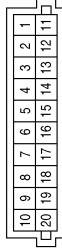
DLK

INTELLIGENT KEY SYSTEM

< WIRING DIAGRAM >

[WITH INTELLIGENT KEY SYSTEM]

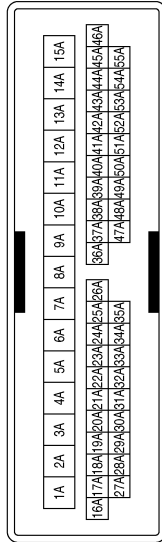
Connector No.	M78
Connector Name	JOINT CONNECTOR-M02
Connector Color	PINK



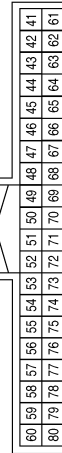
Terminal No.	Color of Wire	Signal Name
16	Y	-
17	SB	-
18	R	-

Terminal No.	Color of Wire	Signal Name
40A	BR	-
41A	Y	-
50A	GR	-
51A	B	-

Connector No.	M74
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Connector No.	M83
Connector Name	BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY SYSTEM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
42	BR	ROOM ANTENNA 3 -
43	Y	ROOM ANTENNA 3 +
44	R	ROOM ANTENNA 2 -
45	G	ROOM ANTENNA 2 +
46	GR	ROOM ANTENNA 1 -
47	BR	ROOM ANTENNA 1 +

Terminal No.	Color of Wire	Signal Name
48	R	BACK DOOR ANTENNA -
49	W	BACK DOOR ANTENNA +
50	Y	DOOR ANTENNA (AS) -
51	BR	DOOR ANTENNA (AS) +
52	LG	DOOR ANTENNA (DR) -
53	P	DOOR ANTENNA (DR) +
55	LG	ENGINE START SW
56	G	REQUEST SW (DR)
66	V	BRAKE SW2
67	SB	AT DEVICE OUTPUT
71	GR	REQUEST SW (AS)
78	W	SMART KEYLESS BUZZER OUTPUT
80	V	POWER POSITION LED (LOCK POSITION LED)

INTELLIGENT KEY SYSTEM

< WIRING DIAGRAM >

[WITH INTELLIGENT KEY SYSTEM]

Terminal No.	Color of Wire	Signal Name
29	SB	HAZARD SW
30	L	TRUNK/BACK DOOR OPENER SW
31	R	DOOR LOCK STATUS SW (DR)
37	P	SHIFT P POSITION, PARKING POSITION SW (WITH CVT)
38	LG	INTELLIGENT TUNER
39	L	CAN-H
40	P	CAN-L

Terminal No.	Color of Wire	Signal Name
7	L	KEY CYLINDER UNLOCK SW
8	V	KEY CYLINDER LOCK SW
9	R	BRAKE SW1
12	GR	CENTRAL DOOR LOCK SW
13	BR	CENTRAL DOOR UNLOCK SW
18	V	KEYLESS TUNER, AUTO LIGHT SENSOR GND

Connector No.	M84
Connector Name	BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY SYSTEM)
Connector Color	BLACK



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

Connector No.	M89
Connector Name	INSIDE KEY ANTENNA (CONSOLE)
Connector Color	BLUE



Connector No.	M86
Connector Name	INSIDE KEY ANTENNA (INSTRUMENT CENTER)
Connector Color	BLUE



Connector No.	M85
Connector Name	BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY SYSTEM)
Connector Color	WHITE



83	88	87	86	85	84	83	82	81
95	94	93	92	91	90			

Terminal No.	Color of Wire	Signal Name
1	G	-
2	R	-

Terminal No.	Color of Wire	Signal Name
1	BR	-
2	GR	-

Terminal No.	Color of Wire	Signal Name
82	BR	ROOM LAMP OUTPUT
84	W	FLASHER OUTPUT (RIGHT)
85	Y	FLASHER OUTPUT (LEFT)
86	SB	DOOR UNLOCK OUTPUT (AS)
88	O	BATTERY (FUSE)
89	P	BATTERY SAVER OUTPUT
90	Y	BATTERY (F/L)
93	B	GND (POWER)
94	SB	DOOR UNLOCK COMMON (DR)
95	O	DOOR LOCK OUTPUT (ALL)

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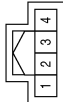
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INTELLIGENT KEY SYSTEM

[WITH INTELLIGENT KEY SYSTEM]

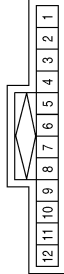
< WIRING DIAGRAM >

Connector No.	M91
Connector Name	REMOTE KEYLESS ENTRY RECEIVER (WITH INTELLIGENT KEY SYSTEM)
Connector Color	WHITE



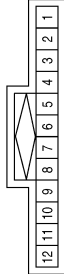
Terminal No.	Color of Wire	Signal Name
1	R	-
2	LG	-
4	V	-

Connector No.	E2
Connector Name	JOINT CONNECTOR-E02
Connector Color	BLUE



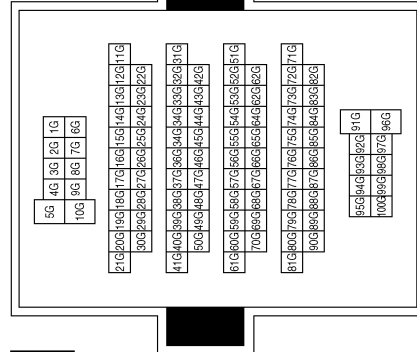
Terminal No.	Color of Wire	Signal Name
1	L	-
5	L	-
8	P	-
12	P	-

Connector No.	E3
Connector Name	JOINT CONNECTOR-E01
Connector Color	BLUE



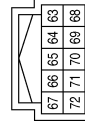
Terminal No.	Color of Wire	Signal Name
8	SB	-
11	SB	-

Connector No.	E4
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
10G	G	-
32G	SB	-
34G	W	-
35G	R	-
36G	GR	-
43G	L	-
95G	P	-
100G	L	-

Connector No.	E39
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
66	L	PUSH START SW

INTELLIGENT KEY SYSTEM

[WITH INTELLIGENT KEY SYSTEM]

< WIRING DIAGRAM >

Connector No.	E48
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	BLACK



59	58	57
62	61	60

Terminal No.	Color of Wire	Signal Name
57	B/Y	GND (POWER)

Connector No.	E47
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	BROWN



51	50	49
56	55	54
53	52	

Terminal No.	Color of Wire	Signal Name
52	B/Y	GND (SIGNAL)

Connector No.	E46
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



42	41	40	39	38	37
48	47	46	45	44	43

Terminal No.	Color of Wire	Signal Name
40	P	CAN-L
41	L	CAN-H
48	L	HORN RLY CONT

Connector No.	E60
Connector Name	STOP LAMP SWITCH
Connector Color	WHITE



3	4
1	2

Terminal No.	Color of Wire	Signal Name
1	W	-
2	SB	-

Connector No.	E58
Connector Name	HORN (HIGH)
Connector Color	BLACK



1

Terminal No.	Color of Wire	Signal Name
1	G	-

Connector No.	E57
Connector Name	HORN (LOW)
Connector Color	BLACK



1

Terminal No.	Color of Wire	Signal Name
1	G	-

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INTELLIGENT KEY SYSTEM

< WIRING DIAGRAM >

[WITH INTELLIGENT KEY SYSTEM]

Connector No.	E69
Connector Name	HORN (HIGH)
Connector Color	BLACK



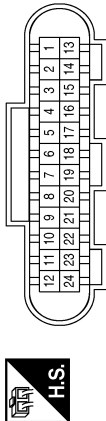
Terminal No.	Color of Wire	Signal Name
2	B/W	-

Connector No.	E68
Connector Name	HORN (LOW)
Connector Color	BLACK



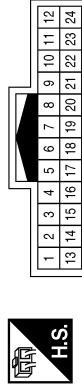
Terminal No.	Color of Wire	Signal Name
2	B/Y	-

Connector No.	E62
Connector Name	JOINT CONNECTOR-E04
Connector Color	BLACK



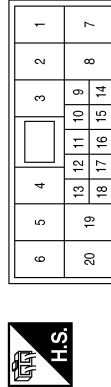
Terminal No.	Color of Wire	Signal Name
5	BR	-
6	BR	-
10	W	-
11	W	-
12	W	-
19	G	-
20	G	-
21	G	-

Connector No.	B11
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
9	SHIELD	-
10	LG	-
11	V	-
23	Y	-
24	W	-

Connector No.	B6
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
13	V	-
16	Y	-
17	W	-
20	B	-

Connector No.	E70
Connector Name	INTELLIGENT KEY WARNING BUZZER
Connector Color	BROWN



Terminal No.	Color of Wire	Signal Name
1	R	-
3	GR	-

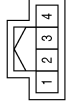
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INTELLIGENT KEY SYSTEM

< WIRING DIAGRAM >

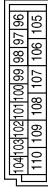
[WITH INTELLIGENT KEY SYSTEM]

Connector No.	B26
Connector Name	REAR DOOR SWITCH LH
Connector Color	WHITE



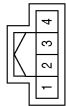
Terminal No.	Color of Wire	Signal Name
3	GR	-

Connector No.	B24
Connector Name	BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY SYSTEM)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
96	LG	LUGGAGE LAMP OUTPUT
97	GR	DOOR SW (RL)
98	Y	DOOR SW (DR)
99	P	DOOR SW (RR)
100	R	DOOR SW (AS)
103	V	TRUNK/GLASS HATCH SW
105	G	DOOR UNLOCK OUTPUT (RR,RL)
107	GR	TRUNK/BACK DOOR OPEN OUTPUT

Connector No.	B21
Connector Name	FRONT DOOR SWITCH LH
Connector Color	WHITE



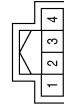
Terminal No.	Color of Wire	Signal Name
3	Y	-

Connector No.	B49
Connector Name	INSIDE KEY ANTENNA (TRUNK ROOM)
Connector Color	BLUE



Terminal No.	Color of Wire	Signal Name
1	V	-
2	LG	-

Connector No.	B41
Connector Name	REAR DOOR SWITCH RH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	P	-

Connector No.	B28
Connector Name	FRONT DOOR SWITCH RH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	R	-

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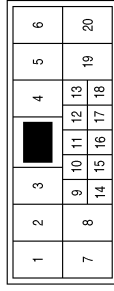
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INTELLIGENT KEY SYSTEM

[WITH INTELLIGENT KEY SYSTEM]

< WIRING DIAGRAM >

Connector No.	B93
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
13	R	-
16	B	-
17	W	-
20	B	-

Connector No.	B79
Connector Name	OUTSIDE KEY ANTENNA (REAR BUMPER)
Connector Color	BLUE



Terminal No.	Color of Wire	Signal Name
1	W	-
2	B	-

Connector No.	B59
Connector Name	TRUNK LID OPENER ASSEMBLY
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	R	-
2	B	-

Connector No.	D15
Connector Name	FRONT OUTSIDE HANDLE LH (REQUEST SWITCH)
Connector Color	BLACK



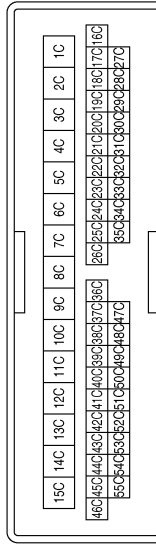
Terminal No.	Color of Wire	Signal Name
1	B	-
2	LG	-

Connector No.	D6
Connector Name	OUTSIDE KEY ANTENNA (DRIVER SIDE)
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
1	P	-
2	V	-

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
13C	B	-
40C	P	-
41C	V	-
50C	LG	-

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INTELLIGENT KEY SYSTEM

[WITH INTELLIGENT KEY SYSTEM]

< WIRING DIAGRAM >

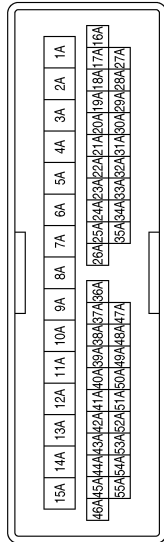
Connector No.	D108
Connector Name	OUTSIDE KEY ANTENNA (PASSENGER SIDE)
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
1	P	-
2	V	-

Terminal No.	Color of Wire	Signal Name
40A	P	-
41A	V	-
50A	P	-
51A	B	-

Connector No.	D101
Connector Name	WIRE TO WIRE
Connector Color	WHITE

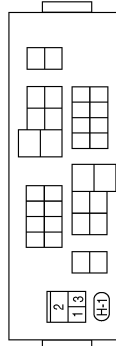


Connector No.	D115
Connector Name	FRONT OUTSIDE HANDLE RH (REQUEST SWITCH)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	P	-
2	B	-

Connector No.	H-1
Connector Name	FUSE AND FUSIBLE LINK BOX (HORN RELAY)
Connector Color	-



Terminal No.	Color of Wire	Signal Name
1	L	-
2	BR	-
3	G	-

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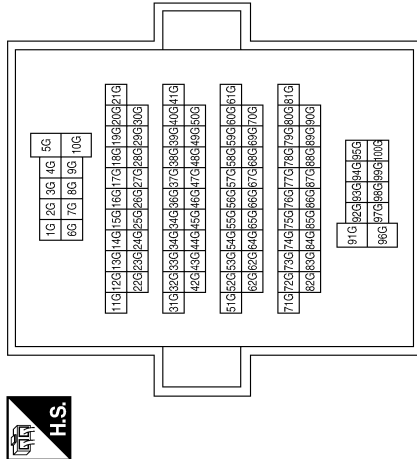
TRUNK LID OPENER

< WIRING DIAGRAM >

[WITH INTELLIGENT KEY SYSTEM]

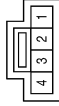
TRUNK LID OPENER CONNECTORS

Connector No.	M2
Connector Name	WIRE TO WIRE
Connector Color	WHITE



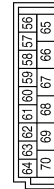
Terminal No.	Color of Wire	Signal Name
10G	Y	-

Connector No.	M15
Connector Name	TRUNK LID OPENER SWITCH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	L	-
2	B	-

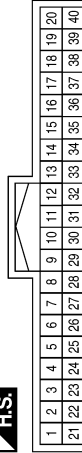
Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY SYSTEM)
Connector Color	WHITE



Connector No.	M21
Connector Name	BCM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY SYSTEM)
Connector Color	WHITE



Connector No.	M84
Connector Name	BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY SYSTEM)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
65	B	GND
70	Y	BATT (F/L)

Terminal No.	Color of Wire	Signal Name
30	L	TRUNK/BACK DOOR OPENER SW

Terminal No.	Color of Wire	Signal Name
30	L	TRUNK/BACK DOOR OPENER SW

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TRUNK LID OPENER

< WIRING DIAGRAM >

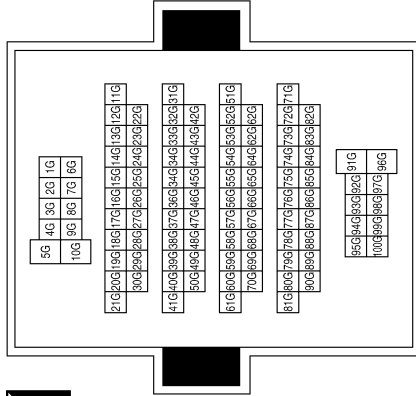
[WITH INTELLIGENT KEY SYSTEM]

Connector No.	M85
Connector Name	BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY SYSTEM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
90	Y	BATTERY (F/L)
93	B	GND

Connector No.	E4
Connector Name	WIRE TO WIRE
Connector Color	WHITE



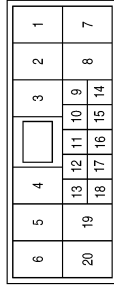
Terminal No.	Color of Wire	Signal Name
10G	G	-

Connector No.	B14
Connector Name	TRUNK OPENER REQUEST SWITCH
Connector Color	BROWN



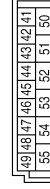
Terminal No.	Color of Wire	Signal Name
1	Y	-
2	B	-

Connector No.	B6
Connector Name	WIRE TO WIRE
Connector Color	WHITE



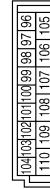
Terminal No.	Color of Wire	Signal Name
13	V	-
18	SB	-
19	GR	-
20	B	-

Connector No.	B57
Connector Name	BCM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY SYSTEM)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
51	V	TRUNK SW
55	GR	TRUNK OPEN OUTPUT

Connector No.	B24
Connector Name	BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY SYSTEM)
Connector Color	BLACK



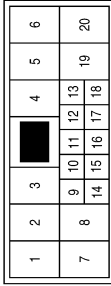
Terminal No.	Color of Wire	Signal Name
103	V	TRUNK/GLASS HATCH SW
107	GR	TRUNK/BACK DOOR OPEN OUTPUT
109	SB	REQUEST SW (TRUNK/BACK DOOR)

TRUNK LID OPENER

< WIRING DIAGRAM >

[WITH INTELLIGENT KEY SYSTEM]

Connector No.	B93
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
13	R	-
18	Y	-
19	GR	-
20	B	-

Connector No.	B59
Connector Name	TRUNK LID OPENER ASSEMBLY
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	R	-
2	B	-
3	GR	-

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HOMELINK UNIVERSAL TRANSCEIVER

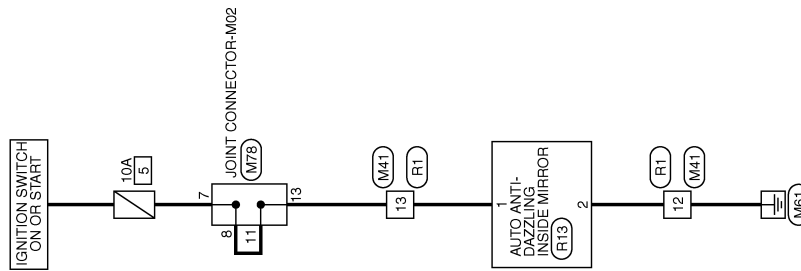
< WIRING DIAGRAM >

[WITH INTELLIGENT KEY SYSTEM]

HOMELINK UNIVERSAL TRANSCEIVER

Wiring Diagram

INFOID:000000011898645



HOMELINK UNIVERSAL TRANSCEIVER

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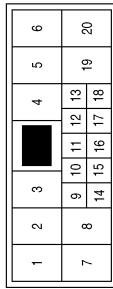
HOMELINK UNIVERSAL TRANSCEIVER

< WIRING DIAGRAM >

[WITH INTELLIGENT KEY SYSTEM]

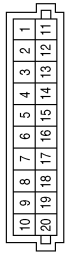
HOMELINK UNIVERSAL TRANSCEIVER CONNECTORS

Connector No.	M41
Connector Name	WIRE TO WIRE
Connector Color	WHITE



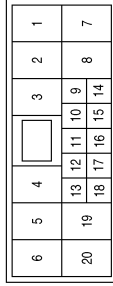
Terminal No.	Color of Wire	Signal Name
12	B	-
13	GR	-

Connector No.	M78
Connector Name	JOINT CONNECTOR-M02
Connector Color	PINK



Terminal No.	Color of Wire	Signal Name
7	G	-
8	LG	-
11	LG	-
13	GR	-

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
12	B	-
13	BR	-

Connector No.	R13
Connector Name	AUTO ANTI-DAZZLING INSIDE MIRROR
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	BR	-
2	B	-

ABKIA6765GB

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DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[WITH INTELLIGENT KEY SYSTEM]

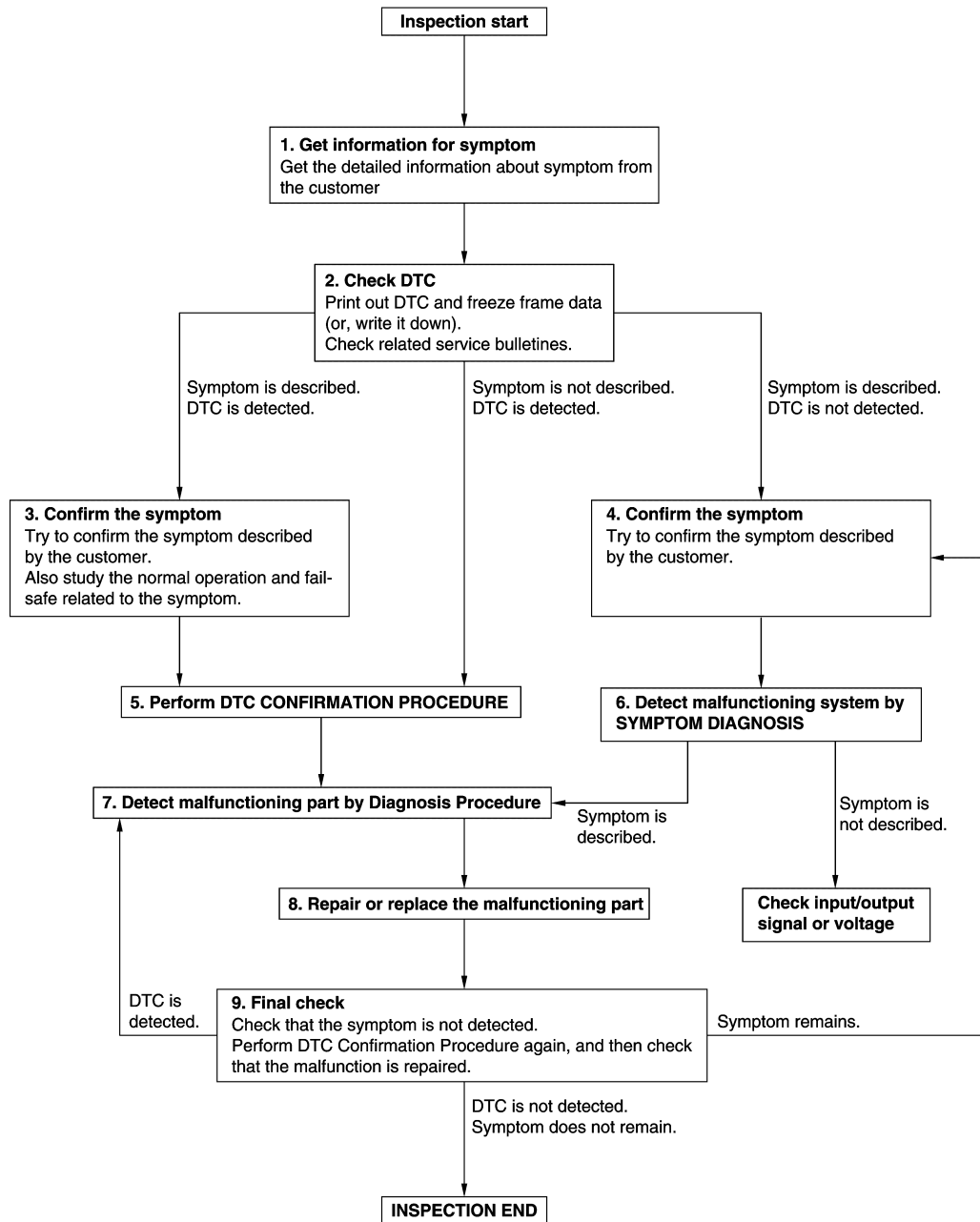
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:000000011536448

OVERALL SEQUENCE



DETAILED FLOW

Revision: December 2014

DLK-70

JMKIA8652GB

2015 Sentra NAM

DIAGNOSIS AND REPAIR WORK FLOW

[WITH INTELLIGENT KEY SYSTEM]

< BASIC INSPECTION >

1. GET INFORMATION FOR SYMPTOM

1. Get detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurs).
2. Check operation condition of the function that is malfunctioning.

>> GO TO 2.

2. CHECK DTC

1. Check DTC.
2. Perform the following procedure if DTC is detected.
 - Record DTC and freeze frame data (Print them out using CONSULT.)
 - Erase DTC.
 - Study the relationship between the cause detected by DTC and the symptom described by the customer.
3. Check related service bulletins for information.

Are any symptoms described and any DTC detected?

Symptom is described, DTC is detected>>GO TO 3.

Symptom is described, DTC is not detected>>GO TO 4.

Symptom is not described, DTC is detected>>GO TO 5.

3. CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

Also study the normal operation and fail-safe related to the symptom.

Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 5.

4. CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 6.

5. PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC CONFIRMATION PROCEDURE for the detected DTC, and then check that DTC is detected again. At this time, always connect CONSULT to the vehicle, and check self diagnostic results in real time.

If two or more DTCs are detected, refer to [BCS-48. "DTC Inspection Priority Chart"](#) and determine trouble diagnosis order.

NOTE:

- Freeze frame data is useful if the DTC is not detected.
- Perform Component Function Check if DTC CONFIRMATION PROCEDURE is not included on Service Manual. This simplified check procedure is an effective alternative though DTC cannot be detected during this check.

If the result of Component Function Check is NG, it is the same as the detection of DTC by DTC CONFIRMATION PROCEDURE.

Is DTC detected?

YES >> GO TO 7.

NO >> Check according to [GI-40. "Intermittent Incident"](#).

6. 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.

Is the symptom described?

YES >> GO TO 7.

NO >> Monitor input data from related sensors or check voltage of related module terminals using CONSULT.

7. DETECT MALFUNCTIONING PART BY DIAGNOSIS PROCEDURE

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DIAGNOSIS AND REPAIR WORK FLOW

[WITH INTELLIGENT KEY SYSTEM]

< BASIC INSPECTION >

Inspect according to Diagnosis Procedure of the system.

Is malfunctioning part detected?

YES >> GO TO 8.

NO >> Check according to [GI-40. "Intermittent Incident"](#).

8. REPAIR OR REPLACE THE MALFUNCTIONING PART

1. Repair or replace the malfunctioning part.
2. Reconnect parts or connectors disconnected during Diagnosis Procedure again after repair and replacement.
3. Check DTC. If DTC is detected, erase it.

>> GO TO 9.

9. FINAL CHECK

When DTC is detected in step 2, perform DTC CONFIRMATION PROCEDURE again, and then check that the malfunction is repaired securely.

When symptom is described by the customer, refer to confirmed symptom in step 3 or 4, and check that the symptom is not detected.

Is DTC detected and does symptom remain?

YES-1 >> DTC is detected: GO TO 7.

YES-2 >> Symptom remains: GO TO 4.

NO >> Before returning the vehicle to the customer, always erase DTC.

U1000 CAN COMM CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM CIRCUIT

Description

INFOID:0000000011536449

Refer to [LAN-7, "CAN COMMUNICATION SYSTEM : System Description"](#).

DTC Logic

INFOID:0000000011536450

DTC DETECTION LOGIC

NOTE:

U1000 can be set if a module harness was disconnected and reconnected, perhaps during a repair. Confirm that there are actual CAN diagnostic symptoms and a present DTC by performing the Self Diagnostic Result procedure.

CONSULT Display	DTC Detection Condition	Possible Cause
CAN COMM CIRCUIT [U1000]	When any listed module cannot communicate with CAN communication signal continuously for 2 seconds or more with ignition switch ON	In CAN communication system, any item (or items) of the following listed below is malfunctioning. <ul style="list-style-type: none">• Transmission• Receiving (ECM)• Receiving (VDC/TCS/ABS)• Receiving (METER/M&A)• Receiving (TCM)• Receiving (IPDM E/R)

Diagnosis Procedure

INFOID:0000000011536451

1. PERFORM SELF DIAGNOSTIC RESULT

1. Turn ignition switch ON and wait for 2 seconds or more.
2. Check "SELF- DIAG RESULTS".

Is "CAN COMM CIRCUIT" displayed?

- YES >> Perform CAN Diagnosis as described in DIAGNOSIS section of CONSULT operation manual.
NO >> Refer to [GI-40, "Intermittent Incident"](#).

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U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

U1010 CONTROL UNIT (CAN)

DTC Logic

INFOID:000000011536452

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
CONTROL UNIT (CAN) [U1010]	BCM detected internal CAN communication circuit malfunction.	BCM

Diagnosis Procedure

INFOID:000000011536453

1. REPLACE BCM

When DTC "U1010" is detected, replace BCM.

>> Replace BCM. Refer to [BCS-76. "Removal and Installation"](#).

B2621 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2621 INSIDE ANTENNA

DTC Logic

INFOID:0000000011536454

NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Check Intelligent Key relative signal strength
- Confirm vehicle Intelligent Key antenna signal strength

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2621	INSIDE ANTENNA 1	An excessive high or low voltage from inside antenna (instrument center) is sent to BCM.	<ul style="list-style-type: none">• Inside key antenna (instrument center)• Harness between BCM and inside-key antenna (instrument center)• BCM

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Select INTELLIGENT KEY of BCM using CONSULT.
2. Select INSIDE ANT DIAGNOSIS in WORK SUPPORT mode.
3. Perform inside key antenna (INSIDE ANT DIAGNOSIS) on WORK SUPPORT of INTELLIGENT KEY.
4. Check BCM for DTC.

Is inside key antenna DTC detected?

- YES >> Refer to [DLK-75. "Diagnosis Procedure"](#).
- NO >> Inside key antenna (instrument center) is OK.

Diagnosis Procedure

INFOID:0000000011536455

NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Check Intelligent Key relative signal strength
- Confirm vehicle Intelligent Key antenna signal strength

Regarding Wiring Diagram information, refer to [DLK-50. "Wiring Diagram"](#).

1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

1. Turn ignition switch ON.
2. Check signal between BCM harness connector and ground using oscilloscope.

B2621 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

(+)		(-)	Condition	Signal (Reference value)
BCM				
Connector	Terminal			
M83	46	Ground	When Intelligent Key is in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA3839GB</p>
	47		When Intelligent Key is not in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA5951GB</p>

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-76, "Removal and Installation"](#).

NO >> GO TO 2.

2. CHECK INSIDE KEY ANTENNA CIRCUIT

- Turn ignition switch OFF.
- Disconnect BCM connector and inside key antenna (instrument center) connector.
- Check continuity between BCM harness connector and inside key antenna (instrument center) harness connector.

BCM		Inside key antenna (instrument center)		Continuity
Connector	Terminal	Connector	Terminal	
M83	47	M86	1	Yes
	46		2	

- Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M83	47		No
	46		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 2

- Replace inside key antenna (instrument center). (New antenna or other antenna)
- Connect BCM connector and inside key antenna (instrument center) connector.
- Turn ignition switch ON.
- Check signal between BCM harness connector and ground using oscilloscope.

B2621 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

(+)		(-)	Condition	Signal (Reference value)
BCM				
Connector	Terminal			
M83	47 46	Ground	When Intelligent Key is in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA3839GB</p>
			When Intelligent Key is not in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA5951GB</p>

Is the inspection result normal?

- YES >> Replace inside key antenna (instrument center).
- NO >> Replace BCM. Refer to [BCS-76. "Removal and Installation"](#).

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B2622 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2622 INSIDE ANTENNA

DTC Logic

INFOID:000000011536456

NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Check Intelligent Key relative signal strength
- Confirm vehicle Intelligent Key antenna signal strength

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2622	INSIDE ANTENNA 2	An excessive high or low voltage from inside antenna (console) is sent to BCM	<ul style="list-style-type: none">• Inside key antenna (console)• Harness between BCM and inside key antenna (console)• BCM

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Select INTELLIGENT KEY of BCM using CONSULT.
2. Select INSIDE ANT DIAGNOSIS in WORK SUPPORT mode.
3. Perform inside key antenna (INSIDE ANT DIAGNOSIS) on WORK SUPPORT of INTELLIGENT KEY.
4. Check BCM for DTC.

Is inside key antenna DTC detected?

- YES >> Refer to [DLK-78, "Diagnosis Procedure"](#).
- NO >> Inside key antenna (console) is OK.

Diagnosis Procedure

INFOID:000000011536457

NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Check Intelligent Key relative signal strength
- Confirm vehicle Intelligent Key antenna signal strength

Regarding Wiring Diagram information, refer to [DLK-50, "Wiring Diagram"](#).

1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

1. Turn ignition switch ON.
2. Check signal between BCM harness connector and ground using oscilloscope.

B2622 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

(+)		(-)	Condition	Signal (Reference value)
BCM				
Connector	Terminal			
M83	45	Ground	When Intelligent Key is in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA3839GB</p>
	44		When Intelligent Key is not in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA5951GB</p>

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-76, "Removal and Installation"](#).

NO >> GO TO 2.

2. CHECK INSIDE KEY ANTENNA CIRCUIT

- Turn ignition switch OFF.
- Disconnect BCM connector and inside key antenna (console) connector.
- Check continuity between BCM harness connector and inside key antenna (console) harness connector.

BCM		Inside key antenna (console)		Continuity
Connector	Terminal	Connector	Terminal	
M83	45	M89	1	Yes
	44		2	

- Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M83	45		No
	44		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

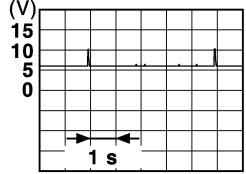
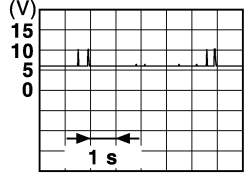
3. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 2

- Replace inside key antenna (console). (New antenna or other antenna)
- Connect BCM connector and inside key antenna (console) connector.
- Turn ignition switch ON.
- Check signal between BCM harness connector and ground using oscilloscope.

B2622 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

(+)		(-)	Condition	Signal (Reference value)
BCM				
Connector	Terminal			
M83	45 44	Ground	When Intelligent Key is in the antenna detection area	 <p style="text-align: right; font-size: small;">JMKIA3839GB</p>
			When Intelligent Key is not in the antenna detection area	 <p style="text-align: right; font-size: small;">JMKIA5951GB</p>

Is the inspection result normal?

YES >> Replace inside key antenna (console).

NO >> Replace BCM. Refer to [BCS-76. "Removal and Installation"](#).

B2623 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2623 INSIDE ANTENNA

DTC Logic

INFOID:000000011536458

NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Check Intelligent Key relative signal strength
- Confirm vehicle Intelligent Key antenna signal strength

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2623	INSIDE ANTENNA 3	An excessive high or low voltage from inside antenna (trunk room) is sent to BCM	<ul style="list-style-type: none">• Inside key antenna (trunk room)• Harness between BCM and inside key antenna (trunk room)• BCM

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Select INTELLIGENT KEY of BCM using CONSULT.
2. Select INSIDE ANT DIAGNOSIS in WORK SUPPORT mode.
3. Perform inside key antenna (INSIDE ANT DIAGNOSIS) on WORK SUPPORT of INTELLIGENT KEY.
4. Check BCM for DTC.

Is inside key antenna DTC detected?

- YES >> Refer to [DLK-81. "Diagnosis Procedure"](#).
- NO >> Inside key antenna (trunk room) is OK.

Diagnosis Procedure

INFOID:000000011536459

NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Check Intelligent Key relative signal strength
- Confirm vehicle Intelligent Key antenna signal strength

Regarding Wiring Diagram information, refer to [DLK-50. "Wiring Diagram"](#).

1. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 1

1. Turn ignition switch ON.
2. Check signal between BCM harness connector and ground using oscilloscope.

B2623 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

(+)		(-)	Condition	Signal (Reference value)
BCM				
Connector	Terminal			
M83	43	Ground	When Intelligent Key is in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA3839GB</p>
	42		When Intelligent Key is not in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA5951GB</p>

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-76, "Removal and Installation"](#).

NO >> GO TO 2.

2. CHECK INSIDE KEY ANTENNA CIRCUIT

- Turn ignition switch OFF.
- Disconnect BCM connector and inside key antenna (trunk room) connector.
- Check continuity between BCM harness connector and inside key antenna (trunk room) harness connector.

BCM		Inside key antenna (trunk room)		Continuity
Connector	Terminal	Connector	Terminal	
M83	43	B49	1	Yes
	42		2	

- Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M83	43		No
	42		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK INSIDE KEY ANTENNA INPUT SIGNAL 2

- Replace inside key antenna (trunk room). (New antenna or other antenna)
- Connect BCM connector and inside key antenna (trunk room) connector.
- Turn ignition switch ON.
- Check signal between BCM harness connector and ground using oscilloscope.

B2623 INSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

(+)		(-)	Condition	Signal (Reference value)
BCM				
Connector	Terminal			
M83	43 42	Ground	When Intelligent Key is in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA3839GB</p>
			When Intelligent Key is not in the antenna detection area	<p style="text-align: right; font-size: small;">JMKIA5951GB</p>

Is the inspection result normal?

- YES >> Replace inside key antenna (trunk room).
- NO >> Replace BCM. Refer to [BCS-76. "Removal and Installation"](#).

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B2626 OUTSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2626 OUTSIDE ANTENNA

DTC Logic

INFOID:000000011536460

NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Check Intelligent Key relative signal strength
- Confirm vehicle Intelligent Key antenna signal strength

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2626	OUTSIDE ANTENNA 1	An excessive high or low voltage from outside key antenna (driver side) is sent to BCM	<ul style="list-style-type: none">• Outside key antenna (driver side)• Harness between BCM and outside key antenna (driver side)• BCM

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check “Self Diagnostic Result” mode of “BCM” using CONSULT.

Is DTC detected?

- YES >> Refer to [DLK-84, "Diagnosis Procedure"](#).
NO >> Outside key antenna (driver side) is OK.

Diagnosis Procedure

INFOID:000000011536461

NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Check Intelligent Key relative signal strength
- Confirm vehicle Intelligent Key antenna signal strength

Regarding Wiring Diagram information, refer to [DLK-50, "Wiring Diagram"](#).

1. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

1. Turn ignition switch ON.
2. Check signal between BCM harness connector and ground using oscilloscope.

B2626 OUTSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

(+)		(-)	Condition	Signal (Reference value)
BCM				
Connector	Terminal			
M83	53	Ground	When Intelligent Key is in the antenna detection area (The distance between Intelligent Key and antenna: 80 cm or less)	<p>JMKIA5955GB</p>
	52		When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)	<p>JMKIA5954GB</p>

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-76, "Removal and Installation"](#).
- NO >> GO TO 2.

2. CHECK OUTSIDE KEY ANTENNA CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector and outside key antenna (driver side) connector.
3. Check continuity between BCM harness connector and outside key antenna (driver side) harness connector.

BCM		Outside key antenna (driver side)		Continuity
Connector	Terminal	Connector	Terminal	
M83	53	D6	1	Yes
	52		2	

4. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M83	53		Ground
	52	No	

Is the inspection result normal?

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

3. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 2

1. Replace outside key antenna (driver side). (New antenna or other antenna)
2. Connect BCM connector and outside key antenna (driver side) connector.
3. Turn ignition switch ON.
4. Check signal between BCM harness connector and ground using oscilloscope.

B2626 OUTSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

(+)		(-)	Condition		Signal (Reference value)
BCM					
Connector	Terminal				
M83	52	Ground	When the driver door request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area (The distance between Intelligent Key and antenna: 80 cm or less)	<p style="text-align: right; font-size: small;">JMKIA5955GB</p>
	53			When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)	<p style="text-align: right; font-size: small;">JMKIA5954GB</p>

Is the inspection result normal?

- YES >> Replace outside key antenna (driver side).
- NO >> Replace BCM. Refer to [BCS-76. "Removal and Installation"](#).

B2627 OUTSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2627 OUTSIDE ANTENNA

DTC Logic

INFOID:000000011536462

NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Check Intelligent Key relative signal strength
- Confirm vehicle Intelligent Key antenna signal strength

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2627	OUTSIDE ANTENNA 2	An excessive high or low voltage from outside key antenna (passenger side) is sent to BCM	<ul style="list-style-type: none">• Outside key antenna (passenger side)• Harness between BCM and outside key antenna (passenger side)• BCM

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check Self Diagnostic Result mode of BCM using CONSULT.

Is outside key antenna DTC detected?

- YES >> Refer to [DLK-87, "Diagnosis Procedure"](#).
- NO >> Outside key antenna (passenger side) is OK.

Diagnosis Procedure

INFOID:000000011536463

NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Check Intelligent Key relative signal strength
- Confirm vehicle Intelligent Key antenna signal strength

Regarding Wiring Diagram information, refer to [DLK-50, "Wiring Diagram"](#).

1.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

1. Turn ignition switch ON.
2. Check signal between BCM harness connector and ground using oscilloscope.

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B2627 OUTSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

(+)		(-)	Condition	Signal (Reference value)
BCM				
Connector	Terminal			
M83	51	Ground	When the Intelligent Key is in the antenna detection area (The distance between Intelligent Key and antenna: 80 cm or less)	<p style="text-align: right; font-size: small;">JMKIA5955GB</p>
	50		When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)	<p style="text-align: right; font-size: small;">JMKIA5954GB</p>

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-76, "Removal and Installation"](#).

NO >> GO TO 2.

2. CHECK OUTSIDE KEY ANTENNA CIRCUIT

- Turn ignition switch OFF.
- Disconnect BCM connector and outside key antenna (passenger side) connector.
- Check continuity between BCM harness connector and outside key antenna (passenger side) harness connector.

BCM		Outside key antenna (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	
M83	51	D108	1	Yes
	50		2	

- Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M83	51		No
	50		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 2

- Replace outside key antenna (passenger side). (New antenna or other antenna)
- Connect BCM connector and outside key antenna (passenger side) connector.
- Turn ignition switch ON.
- Check signal between BCM harness connector and ground using oscilloscope.

B2627 OUTSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

(+)		(-)	Condition	Signal (Reference value)
BCM				
Connector	Terminal			
M83	51 50	Ground	When Intelligent Key is in the antenna detection area (The distance between Intelligent Key and antenna: 80 cm or less)	
			When the passenger side door request switch is operated with ignition switch OFF	

Is the inspection result normal?

YES >> Replace outside key antenna (passenger side).

NO >> Replace BCM. Refer to [BCS-76. "Removal and Installation"](#).

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B2628 OUTSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

B2628 OUTSIDE ANTENNA

DTC Logic

INFOID:000000011536464

NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Check Intelligent Key relative signal strength
- Confirm vehicle Intelligent Key antenna signal strength

DTC DETECTION LOGIC

DTC	CONSULT display description	DTC detecting condition	Possible cause
B2628	OUTSIDE ANTENNA 3	An excessive high or low voltage from outside key antenna (rear bumper) is sent to BCM	<ul style="list-style-type: none">• Outside key antenna (rear bumper)• Harness between BCM and outside key antenna (rear bumper)• BCM

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check Self Diagnostic Result mode of BCM using CONSULT.

Is outside key antenna DTC detected?

- YES >> Refer to [DLK-90, "Diagnosis Procedure"](#).
- NO >> Outside key antenna (rear bumper) is OK.

Diagnosis Procedure

INFOID:000000011536465

NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Check Intelligent Key relative signal strength
- Confirm vehicle Intelligent Key antenna signal strength

Regarding Wiring Diagram information, refer to [DLK-50, "Wiring Diagram"](#).

1. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 1

1. Turn ignition switch ON.
2. Check signal between BCM harness connector and ground using oscilloscope.

B2628 OUTSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

(+)		(-)	Condition	Signal (Reference value)
BCM				
Connector	Terminal			
M83	48,49	Ground	When Intelligent Key is in the antenna detection area (The distance between Intelligent Key and antenna: 80 cm or less)	<p>JMKIA5955GB</p>
			When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)	<p>JMKIA5954GB</p>

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-76, "Removal and Installation"](#).
- NO >> GO TO 2.

2. CHECK OUTSIDE KEY ANTENNA CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector and outside key antenna (rear bumper) connector.
3. Check continuity between BCM harness connector and outside key antenna (rear bumper) harness connector.

BCM		Outside key antenna (rear bumper)		Continuity
Connector	Terminal	Connector	Terminal	
M83	49	B79	1	Yes
	48		2	

4. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M83	49		
	48		

Is the inspection result normal?

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

3. CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL 2

1. Replace outside key antenna (rear bumper). (New antenna or other antenna)
2. Connect BCM and outside key antenna (rear bumper) connector.
3. Turn ignition switch ON.
4. Check signal between BCM harness connector and ground using oscilloscope.

B2628 OUTSIDE ANTENNA

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

(+)		(-)	Condition		Signal (Reference value)
BCM					
Connector	Terminal				
M83	49,48	Ground	When the trunk opener request switch is operated with ignition switch OFF	When Intelligent Key is in the antenna detection area (The distance between Intelligent Key and antenna: 80 cm or less)	<p style="text-align: right; font-size: small;">JMK1A5955GB</p>
				When Intelligent Key is not in the antenna detection area (The distance between Intelligent Key and antenna: Approx. 2 m)	<p style="text-align: right; font-size: small;">JMK1A5954GB</p>

Is the inspection result normal?

- YES >> Replace outside key antenna (rear bumper).
- NO >> Replace BCM. Refer to [BCS-76. "Removal and Installation"](#).

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

POWER SUPPLY AND GROUND CIRCUIT

Diagnosis Procedure

INFOID:0000000011897903

Regarding Wiring Diagram information, refer to [BCS-51. "Wiring Diagram"](#).

1. CHECK FUSES AND FUSIBLE LINK

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

Terminal No.	Signal name	Fuses and fusible link No.
88	Battery power supply	12 (10A)
90		G (40A)

Is the fuse blown?

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

NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT

1. Disconnect BCM connector M85.
2. Check voltage between BCM connector M85 and ground.

BCM		Ground	Voltage
Connector	Terminal		
M85	88	—	Battery voltage
	90		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3. CHECK GROUND CIRCUIT

Check continuity between BCM connector M85 and ground.

BCM		Ground	Continuity
Connector	Terminal		
M85	93	—	Yes

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair harness or connector.

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COMBINATION METER BUZZER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

COMBINATION METER BUZZER

Component Function Check

INFOID:000000011536467

1.CHECK FUNCTION

1. Select INTELLIGENT KEY of BCM using CONSULT.
2. Select INSIDE BUZZER in ACTIVE TEST mode.
3. Touch Key, Knob or Take Out to check that it works normally.

Is the inspection result normal?

- Yes >> Combination meter buzzer is OK.
- No >> Refer to [DLK-94, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000011536468

1.CHECK METER BUZZER CIRCUIT

Refer to [WCS-29, "Component Function Check"](#).

Is the inspection result normal?

- Yes >> GO TO 2.
- No >> Repair or replace harness.

2.CHECK INTERMITTENT INCIDENT

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

>> Inspection End.

DOOR LOCK ACTUATOR

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

DOOR LOCK ACTUATOR

DRIVER SIDE

DRIVER SIDE : Component Function Check

INFOID:000000011536469

1.CHECK FUNCTION

1. Select DOOR LOCK of BCM using CONSULT.
2. Select DOOR LOCK in ACTIVE TEST mode.
3. Touch ALL LOCK or ALL UNLK to check that it works normally.

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to [DLK-95, "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:000000011536470

Regarding Wiring Diagram information, refer to [DLK-42, "Wiring Diagram"](#).

1.CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect front door lock actuator LH connector.
3. Check voltage between front door lock actuator LH harness connector and ground.

(+)		(-)	Condition	Voltage (Approx.)
Connector	Terminal			
D9	1	Ground	Door lock and unlock switch	12 V
	2		Lock Unlock	

Is the inspection result normal?

YES >> Replace front door lock actuator LH .

NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect BCM connector and all door lock actuator connectors.
2. Check continuity between BCM harness connector and front door lock actuator LH harness connector.

BCM		Front door lock actuator LH		Continuity
Connector	Terminal	Connector	Terminal	
M85	95	D9	1	Yes
	94		2	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M85	95		No
	94		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3.CHECK BCM OUTPUT SIGNAL

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DOOR LOCK ACTUATOR

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

1. Connect BCM connector.
2. Check voltage between front door lock actuator LH harness connector and ground.

(+)		(-)	Condition	Voltage (Approx.)	
BCM					
Connector	Terminal				
M85	95	Ground	Door lock and unlock switch	Lock	12 V
	94			Unlock	

Is the inspection result normal?

- YES >> Check for internal short of each door lock actuator.
 NO >> Replace BCM. Refer to [BCS-76, "Removal and Installation"](#).

PASSENGER SIDE

PASSENGER SIDE : Component Function Check

INFOID:000000011536471

1.CHECK FUNCTION

1. Select DOOR LOCK of BCM using CONSULT.
2. Select DOOR LOCK in ACTIVE TEST mode.
3. Touch ALL LOCK or ALL UNLK to check that it works normally.

Is the inspection result normal?

- YES >> Door lock actuator is OK.
 NO >> Refer to [DLK-96, "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000011536472

Regarding Wiring Diagram information, refer to [DLK-42, "Wiring Diagram"](#).

1.CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect front door lock actuator RH connector.
3. Check voltage between front door lock actuator RH harness connector and ground.

(+)		(-)	Condition	Voltage (Approx.)	
Front door lock actuator RH					
Connector	Terminal				
D107	5	Ground	Door lock and unlock switch	Lock	12 V
	6			Unlock	

Is the inspection result normal?

- YES >> Replace front door lock actuator RH.
 NO >> GO TO 2.

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect BCM connector and all door lock actuators.
2. Check continuity between BCM harness connector and front door lock actuator RH harness connector.

BCM		Front door lock actuator RH		Continuity
Connector	Terminal	Connector	Terminal	
M85	95	D107	5	Yes
	86		6	

3. Check continuity between BCM harness connector and ground.

DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

BCM		Ground	Continuity
Connector	Terminal		
M85	95		No
	86		

Is the inspection result normal?

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

3.CHECK BCM OUTPUT SIGNAL

1. Connect BCM connector.
2. Check voltage between front door lock actuator RH harness connector and ground.

(+)		(-)	Condition	Voltage (Approx.)
BCM				
Connector	Terminal			
M85	95	Ground	Door lock and unlock switch	Lock
	86			Unlock
				12 V

Is the inspection result normal?

- YES >> Check for internal short of each door lock actuator.
 NO >> Replace BCM. Refer to [BCS-76, "Removal and Installation"](#).

REAR LH

REAR LH : Component Function Check

INFOID:000000011536473

1.CHECK FUNCTION

1. Select DOOR LOCK of BCM using CONSULT.
2. Select DOOR LOCK in ACTIVE TEST mode.
3. Touch ALL LOCK or ALL UNLK to check that it works normally.

Is the inspection result normal?

- YES >> Door lock actuator is OK.
 NO >> Refer to [DLK-97, "REAR LH : Diagnosis Procedure"](#).

REAR LH : Diagnosis Procedure

INFOID:000000011536474

Regarding Wiring Diagram information, refer to [DLK-42, "Wiring Diagram"](#).

1.CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect rear door lock actuator LH connector.
3. Check voltage between rear door lock actuator LH harness connector and ground.

(+)		(-)	Condition	Voltage (Approx.)
Rear door lock actuator LH				
Connector	Terminal			
D202	1	Ground	Door lock and unlock switch	Lock
	2			Unlock
				12 V

Is the inspection result normal?

- YES >> Replace rear door lock actuator LH.
 NO >> GO TO 2.

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DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

2. CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect BCM connector and all door lock actuator connectors.
2. Check continuity between BCM harness connector and rear door lock actuator LH harness connector.

BCM		Rear door lock actuator LH		Continuity
Connector	Terminal	Connector	Terminal	
M85	95	D202	1	Yes
B24	105		2	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M85	95		No
B24	105		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK BCM OUTPUT SIGNAL

1. Connect BCM connector.
2. Check voltage between rear door lock actuator LH harness connector and ground.

(+)		(-)	Condition		Voltage (Approx.)
BCM					
Connector	Terminal	Ground	Door lock and unlock switch	Lock	12 V
M85	95				
B24	105				

Is the inspection result normal?

YES >> Check for internal short of each door lock actuator.

NO >> Replace BCM. Refer to [BCS-76. "Removal and Installation"](#).

REAR RH

REAR RH : Component Function Check

INFOID:000000011536475

1. CHECK FUNCTION

1. Select DOOR LOCK of BCM using CONSULT.
2. Select DOOR LOCK in ACTIVE TEST mode.
3. Touch ALL LOCK or ALL UNLK to check that it works normally.

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to [DLK-98. "REAR RH : Diagnosis Procedure"](#).

REAR RH : Diagnosis Procedure

INFOID:000000011536476

Regarding Wiring Diagram information, refer to [DLK-42. "Wiring Diagram"](#).

1. CHECK DOOR LOCK ACTUATOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect rear door lock actuator RH connector.
3. Check voltage between rear door lock actuator RH harness connector and ground.

DOOR LOCK ACTUATOR

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

(+)		(-)	Condition		Voltage (Approx.)
Rear door lock actuator RH					
Connector	Terminal				
D302	5	Ground	Door lock and unlock switch	Lock	12 V
	6			Unlock	

Is the inspection result normal?

YES >> Replace rear door lock actuator RH.

NO >> GO TO 2.

2. CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Disconnect BCM connector and all door lock actuator connectors.
2. Check continuity between BCM harness connector and rear door lock actuator RH harness connector.

BCM		Rear door lock actuator RH		Continuity
Connector	Terminal	Connector	Terminal	
M85	95	D302	5	Yes
B24	105		6	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M85	95		No
B24	105		

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace harness.

3. CHECK BCM OUTPUT SIGNAL

1. Connect BCM connector.
2. Check voltage between rear door lock actuator RH harness connector and ground.

(+)		(-)	Condition		Voltage (Approx.)
BCM					
Connector	Terminal				
M85	95	Ground	Door lock and unlock switch	Lock	12 V
B24	105			Unlock	

Is the inspection result normal?

YES >> Check for internal short of each door lock actuator.

NO >> Replace BCM. Refer to [BCS-76, "Removal and Installation"](#).

DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

DOOR LOCK AND UNLOCK SWITCH

Component Function Check

INFOID:000000011536477

1. CHECK FUNCTION

1. Select DOOR LOCK of BCM using CONSULT.
2. Select CDL LOCK SW, CDL UNLOCK SW in DATA MONITOR mode.
3. Check that the function operates normally according to the following conditions.

Monitor item	Condition	Status
CDL LOCK SW	LOCK	ON
	UNLOCK	OFF
CDL UNLOCK SW	LOCK	OFF
	UNLOCK	ON

Is the inspection result normal?

- YES >> Main power window and door lock/unlock switch is OK.
 NO >> Refer to [DLK-100, "Diagnosis Procedure"](#).

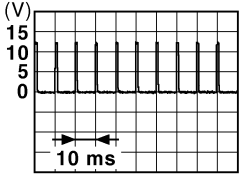
Diagnosis Procedure

INFOID:000000011536478

Regarding Wiring Diagram information, refer to [DLK-42, "Wiring Diagram"](#).

1. CHECK DOOR LOCK AND UNLOCK SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect main power window and door lock/unlock switch connector.
3. Check signal between main power window and door lock/unlock switch harness connector and ground using oscilloscope.

(+)		(-)	Signal (Reference value)
Connector	Terminal		
D5	15	Ground	
	3		

Is the inspection result normal?

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

2. CHECK DOOR LOCK AND UNLOCK SWITCH CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM harness connector and main power window and door lock/unlock switch harness connector.

DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

BCM		Main power window and door lock/unlock switch		Continuity
Connector	Terminal	Connector	Terminal	
M84	12	D5	3	Yes
	13		15	

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M84	12		No
	13		

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-76, "Removal and Installation"](#).

NO >> Repair or replace harness.

3. CHECK DOOR LOCK AND UNLOCK SWITCH GROUND

Check continuity between main power window and door lock/unlock switch harness connector and ground.

Main power window and door lock/unlock switch		Ground	Continuity
Connector	Terminal		
D5	1		Yes

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK DOOR LOCK AND UNLOCK SWITCH

Refer to [DLK-101, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace main power window and door lock/unlock switch. Refer to [PWC-69, "Removal and Installation"](#).

5. CHECK INTERMITTENT INCIDENT

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

>> Inspection End.

Component Inspection

INFOID:000000011536479

1. CHECK MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH

1. Turn ignition switch OFF.
2. Disconnect main power window and door lock/unlock switch connector.
3. Check continuity between main power window and door lock/unlock switch terminals.

Main power window and door lock/unlock switch		Condition	Continuity
Terminal			
15	1	LOCK	No
		UNLOCK	Yes
3		LOCK	Yes
		UNLOCK	No

Is the inspection result normal?

YES >> Inspection End

DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

NO >> Replace main power window and door lock/unlock switch. Refer to [PWC-69. "Removal and Installation"](#).

UNLOCK SENSOR

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

UNLOCK SENSOR

Component Function Check

INFOID:000000011897923

1.CHECK FUNCTION

1. Select INTELLIGENT KEY of BCM using CONSULT.
2. Select UNLK SEN-DR in DATA MONITOR mode.
3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
UNLK SEN -DR	Driver side door	Lock	OFF
		Unlock	ON

Is the inspection result normal?

YES >> Unlock sensor is OK.

NO >> Refer to [DLK-103, "Diagnosis Procedure"](#).

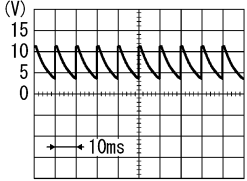
Diagnosis Procedure

INFOID:000000011897924

Regarding Wiring Diagram information, refer to [DLK-50, "Wiring Diagram"](#).

1.CHECK UNLOCK SENSOR INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect front door lock assembly LH connector.
3. Check signal between front door lock assembly LH harness connector and ground with oscilloscope.

(+)		(-)	Signal (Reference value)
Connector	Terminal		
D9	3	Ground	 <p style="text-align: right; font-size: small;">PKIB4960J</p>

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK UNLOCK SENSOR CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM harness connector and front door lock assembly LH harness connector.

BCM		Front door lock assembly LH		Continuity
Connector	Terminal	Connector	Terminal	
M84	31	D9	3	Yes

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M84	31		No

UNLOCK SENSOR

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-76, "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK UNLOCK SENSOR GROUND CIRCUIT

Check continuity between front door lock assembly LH harness connector and ground.

Front door lock assembly LH		Ground	Continuity
Connector	Terminal		
D9	4		Yes

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK UNLOCK SENSOR

Refer to [DLK-104, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace front door lock assembly LH. Refer to [DLK-186, "FRONT DOOR LOCK : Removal and Installation"](#).

5.CHECK INTERMITTENT INCIDENT

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

>> Inspection End.

Component Inspection

INFOID:000000011897925

1.CHECK UNLOCK SENSOR

1. Turn ignition switch OFF.
2. Disconnect front door lock assembly LH connector.
3. Check continuity between front door lock assembly LH terminals.

Front door lock assembly LH		Condition		Continuity
Terminal				
3	4	Driver side door	Unlock	Yes
			Lock	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace front door lock assembly LH. Refer to [DLK-186, "FRONT DOOR LOCK : Removal and Installation"](#).

KEY CYLINDER SWITCH

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

KEY CYLINDER SWITCH

Description

INFOID:0000000011897904

When the mechanical key is inserted and turned into the front door lock key cylinder switch LH, the switch transmits the LOCK or UNLOCK signal directly to the BCM.

Component Function Check

INFOID:0000000011897905

1. CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

Check KEY CYL UN-SW, KEY CYL UN-SW in "DATA MONITOR" mode for "POWER DOOR LOCK SYSTEM" with CONSULT. Refer to [DLK-37, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)".](#)

Monitor item	Condition
KEY CYL LK-SW	Lock : ON
	Neutral / Unlock : OFF
KEY CYL UN-SW	Unlock : ON
	Neutral / Lock : OFF

Is the inspection result normal?

- YES >> Key cylinder switch is OK.
- NO >> Refer to [DLK-105, "Diagnosis Procedure".](#)

Diagnosis Procedure

INFOID:0000000011897906

Regarding Wiring Diagram information, refer to [DLK-42, "Wiring Diagram".](#)

1. CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

- Turn ignition switch ON.
- Check voltage between BCM connector and ground.

Terminals		Key position	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M84	8	Lock	0
		Neutral / Unlock	7.0 - 8.0 V
	7	Unlock	0
		Neutral / Lock	7.0 - 8.0 V

Is the inspection result normal?

- YES >> Front door lock key cylinder switch LH is OK.
- NO >> GO TO 2

2. CHECK DOOR KEY CYLINDER SWITCH GROUND CIRCUIT

- Turn ignition switch OFF.
- Disconnect front door lock key cylinder switch LH connector.
- Check continuity between front door lock key cylinder switch LH connector and ground.

Front door lock key cylinder switch LH connector	Terminal	Ground	Continuity
D9	4		Yes

Is the inspection result normal?

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KEY CYLINDER SWITCH

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

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

3. CHECK DOOR KEY CYLINDER SIGNAL CIRCUIT

1. Disconnect BCM connector M84.
2. Check continuity between front door lock key cylinder switch LH connector and BCM connector M84.

Front door lock key cylinder switch LH connector	Terminal	BCM connector	Terminal	Continuity
D9	6	M84	8	Yes
	5		7	

3. Check continuity between front door lock key cylinder switch LH connector and ground.

Front door lock key cylinder switch LH connector	Terminal	Ground	Continuity
D9	6	Ground	No
	5		

Is the inspection result normal?

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

4. CHECK DOOR KEY CYLINDER SWITCH

Check door key cylinder switch.
Refer to [DLK-106, "Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-40, "Intermittent Incident"](#).
NO >> Replace front door lock key cylinder switch LH.

Component Inspection

INFOID:000000011897907

COMPONENT INSPECTION

1. CHECK DOOR KEY CYLINDER SWITCH

Check front door lock key cylinder switch LH.

Terminal		Key position	Continuity
Front door lock key cylinder switch LH connector			
6	4	Lock	Yes
		Neutral / Unlock	No
5		Unlock	Yes
		Neutral / Lock	No

Is the inspection result normal?

- YES >> Key cylinder switch is OK.
NO >> Replace front door lock key cylinder switch LH.

DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

DOOR REQUEST SWITCH

Component Function Check

INFOID:0000000011536480

1.CHECK FUNCTION

1. Select INTELLIGENT KEY of CM using CONSULT.
2. Select REQ SW-DR, REQ SW-AS in DATA MONITOR mode.
3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
REQ SW -DR	Door request switch LH	Pressed	ON
		Released	OFF
REQ SW -AS	Door request switch RH	Pressed	ON
		Released	OFF

Is the inspection result normal?

YES >> Front door request switch is OK.

NO >> Refer to [DLK-107, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000011536481

Regarding Wiring Diagram information, refer to [DLK-50, "Wiring Diagram"](#).

1.CHECK DOOR REQUEST SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect malfunctioning front door request switch connector.
3. Check voltage between malfunctioning front door request switch harness connector and ground.

(+)			(-)	Voltage (Approx.)
Front door request switch				
Connector	Terminal		Ground	12 V
Left side	D15	2		
Right side	D115	1		

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK DOOR REQUEST SWITCH CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between malfunctioning front door request switch harness connector and BCM harness connector.

Front door request switch			BCM		Continuity
Connector	Terminal		Connector	Terminal	
Left side	D15	2	M83	56	Yes
Right side	D115	1		71	

3. Check continuity between malfunctioning front door request switch harness connector and ground.

DOOR REQUEST SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Front door request switch			Ground	Continuity
Connector		Terminal		No
Left side	D15	2		
Right side	D115	1		

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-76. "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK DOOR REQUEST SWITCH GROUND CIRCUIT

Check continuity between malfunctioning front door request switch harness connector and ground.

Front door request switch			Ground	Continuity
Connector		Terminal		Yes
Left side	D15	1		
Right side	D115	2		

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK DOOR REQUEST SWITCH

Refer to [DLK-108. "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace malfunctioning front door request switch.

5.CHECK INTERMITTENT INCIDENT

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

>> Inspection End.

Component Inspection

INFOID:000000011536482

1.CHECK DOOR REQUEST SWITCH

1. Turn ignition switch OFF.
2. Disconnect malfunctioning front door request switch connector.
3. Check continuity between malfunctioning front door request switch terminals.

Front door request switch		Condition	Continuity
Terminal			
1	2	Door request switch Pressed	Yes
		Released	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace malfunctioning front door request switch.

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

DOOR SWITCH

Component Function Check

INFOID:0000000011536483

1.CHECK FUNCTION

1. Select DOOR LOCK of BCM using CONSULT.
2. Select DOOR SW-DR, DOOR SW-AS, DOOR SW-RL and DOOR SW-RR in DATA MONITOR mode.
3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
DOOR SW-DR	Front door LH	Open	ON
		Closed	OFF
DOOR SW-AS	Front door RH	Open	ON
		Closed	OFF
DOOR SW-RL	Rear door LH	Open	ON
		Closed	OFF
DOOR SW-RR	Rear door RH	Open	ON
		Closed	OFF

Is the inspection result normal?

YES >> Door switch is OK.

NO >> Refer to [DLK-109. "Diagnosis Procedure"](#).

Diagnosis Procedure

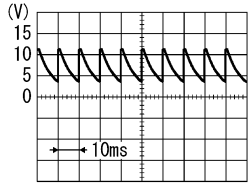
INFOID:0000000011536484

Regarding Wiring Diagram information, refer to [DLK-50. "Wiring Diagram"](#).

1.CHECK DOOR SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect malfunctioning door switch connector.
3. Check signal between malfunctioning door switch harness connector and ground using oscilloscope.

DLK

(+)			(-)	Signal (Reference value)
Door switch				
Connector		Terminal	Ground	
Front door switch LH	B21	3		
Front door switch RH	B28	3		
Rear door switch LH	B26	3		
Rear door switch RH	B41	3		

Is the inspection result normal?

YES >> GO TO 3.

NO >> GO TO 2.

2.CHECK DOOR SWITCH CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between door switch harness connector and BCM harness connector.

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Door switch		BCM		Continuity
Connector	Terminal	Connector	Terminal	
Front door switch LH	B21	3	B24	98
Front door switch RH	B28			100
Rear door switch LH	B26			97
Rear door switch RH	B41			99
				Yes

3. Check continuity between door switch harness connector and ground.

Door switch		Ground	Continuity
Connector	Terminal		
Front door switch LH	B21	3	No
Front door switch RH	B28		
Rear door switch LH	B26		
Rear door switch RH	B41		

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-76, "Removal and Installation"](#).

NO >> Repair or replace harness.

3. CHECK DOOR SWITCH

Refer to [DLK-110, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Replace malfunctioning door switch.

4. CHECK INTERMITTENT INCIDENT

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

>> Inspection End.

Component Inspection

INFOID:000000011536485

1. CHECK DOOR SWITCH

1. Turn ignition switch OFF.
2. Disconnect malfunctioning door switch connector.
3. Check continuity between door switch terminals.

Door switch		Condition	Continuity		
Terminal					
Front door switch LH	3	Ground part of door switch	Door switch	Pressed	No
				Released	Yes
Front door switch RH				Pressed	No
				Released	Yes
Rear door switch LH	3	Ground part of door switch	Door switch	Pressed	No
				Released	Yes
Rear door switch RH				Pressed	No
				Released	Yes

Is the inspection result normal?

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

YES >> Inspection End.
NO >> Replace malfunction door switch.

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HAZARD FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

HAZARD FUNCTION

Component Function Check

INFOID:000000011536486

1.CHECK FUNCTION

1. Select INTELLIGENT KEY of BCM using CONSULT.
2. Select FLASHER in ACTIVE TEST mode.
3. Touch LH or RH to check that it works normally.

Is the inspection result normal?

- YES >> Hazard warning lamp circuit is OK.
NO >> Refer to [DLK-112. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000011536487

1.CHECK HAZARD SWITCH CIRCUIT

Refer to [EXL-106. "Component Function Check"](#).

Is the inspection result normal?

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

2.CHECK INTERMITTENT INCIDENT

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

>> Inspection End.

INTELLIGENT KEY

Component Function Check

INFOID:000000011536488

NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Check Intelligent Key relative signal strength.
- Confirm vehicle Intelligent Key antenna signal strength.

1. CHECK FUNCTION

1. Select “INTELLIGENT KEY” of “BCM” using CONSULT.
2. Select “RKE OPE COUN1” in “DATA MONITOR” mode.
3. Check that the function operates normally according to the following conditions.

Monitor item	Condition
RKE OPE COUN1	Check that the numerical value is changing while operating on the Intelligent Key.

Is the inspection result normal?

- YES >> Intelligent Key is OK.
 NO >> Refer to [DLK-113, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000011536489

NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Check Intelligent Key relative signal strength.
- Confirm vehicle Intelligent Key antenna signal strength.

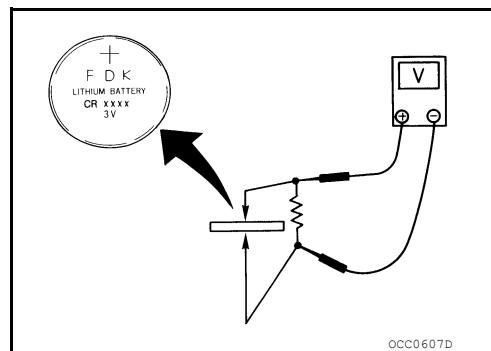
1. CHECK INTELLIGENT KEY BATTERY

Check by connecting a resistance (approximately 300Ω) so that the current value becomes about 10 mA. Refer to [DLK-207, "Removal and Installation"](#).

Standard : Approx. 2.5 - 3.0V

Is the measurement value within the specification?

- YES >> Replace Intelligent Key.
 NO >> Replace Intelligent Key battery.



DLK

KEY WARNING LAMP

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

KEY WARNING LAMP

Component Function Check

INFOID:000000011536490

1.CHECK FUNCTION

1. Select INTELLIGENT KEY of BCM using CONSULT.
2. Select INDICATOR in ACTIVE TEST mode.
3. Touch KEY IND or KEY ON to check that it works normally.

Is the inspection result normal?

- YES >> Key warning lamp is OK.
NO >> Refer to [DLK-114, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000011536491

1.CHECK KEY WARNING LAMP

Refer to [DLK-31, "WARNING FUNCTION : System Description"](#).

Is the inspection result normal?

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

2.CHECK INTERMITTENT INCIDENT

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

>> Inspection End.

REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

REMOTE KEYLESS ENTRY RECEIVER

Component Function Check

INFOID:000000011536492

1.CHECK FUNCTION

1. Select INTELLIGENT KEY of BCM using CONSULT.
2. Select RKE OPE COUN1 in DATA MONITOR mode.
3. Check that the function operates normally according to the following conditions.

Monitor item	Condition
RKE OPE COUN1	Checks whether value changes when operating Intelligent Key

Is the inspection result normal?

- YES >> Remote keyless entry receiver is OK.
NO >> Refer to [DLK-115. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000011536493

Regarding Wiring Diagram information, refer to [DLK-50. "Wiring Diagram"](#).

1.CHECK REMOTE KEYLESS ENTRY RECEIVER OUTPUT SIGNAL

1. Turn ignition switch OFF.
2. Check voltage between BCM harness connector and ground.

(+)		(-)	Condition	Signal (Reference value)	
BCM					
Connector	Terminal				
M84	38	Ground	Push-button ignition switch	OFF or ACC	0 - 0.5V
				ON	Battery voltage

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-76. "Removal and Installation"](#).
NO >> GO TO 2.

2.CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT

1. Disconnect BCM and remote keyless entry receiver connectors.
2. Check continuity between BCM harness connector and remote keyless entry receiver harness connector.

BCM		Remote keyless entry receiver		Continuity
Connector	Terminal	Connector	Terminal	
M84	38	M91	2	Yes

3. Check continuity between BCM harness connector and ground.

(+)		(-)	Continuity
BCM			
Connector	Terminal		
M84	38	Ground	No

Is the inspection result normal?

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

3.CHECK REMOTE KEYLESS ENTRY RECEIVER POWER SUPPLY

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REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Check voltage between remote keyless entry receiver harness connector and ground.

(+)		(-)	Voltage Approx.
Remote keyless entry receiver			
Connector	Terminal	Ground	Battery voltage
M91	1		

Is the inspection result normal?

YES >> GO TO 4.

NO-1 >> Check 10A fuse No. 14 [located in fuse block J/B].

NO-2 >> Repair or replace harness between remote keyless entry receiver and 10A fuse No. 14.

4. CHECK REMOTE KEYLESS ENTRY RECEIVER GROUND CIRCUIT

Check continuity between remote keyless entry receiver harness connector and ground.

Remote keyless entry receiver		Ground	Continuity
Connector	Terminal		
M91	4		Yes

Is the inspection result normal?

YES >> Replace remote keyless entry receiver. Refer to [DLK-206, "Removal and Installation"](#).

NO >> Repair or replace harness.

SHIFT P WARNING LAMP

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

SHIFT P WARNING LAMP

Component Function Check

INFOID:0000000011536494

1.CHECK FUNCTION

1. Select INTELLIGENT KEY of BCM using CONSULT.
2. Select LCD in ACTIVE TEST mode.
3. Touch SET P to check that it works normally.

Is the inspection result normal?

- YES >> Shift P warning lamp is OK.
NO >> Refer to [DLK-117, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000011536495

1.CHECK SHIFT P WARNING LAMP

Refer to [DLK-31, "WARNING FUNCTION : System Description"](#).

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Repair or replace the malfunctioning parts.

2.CHECK INTERMITTENT INCIDENT

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

>> Inspection End.

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TRUNK LID OPENER ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

TRUNK LID OPENER ACTUATOR

Component Function Check

INFOID:000000011536496

1. CHECK FUNCTION

1. Select INTELLIGENT KEY of BCM using CONSULT.
2. Select TRUNK/GLASS HATCH in ACTIVE TEST mode.
3. Touch OPEN to check that it works normally.

Is the inspection result normal?

- YES >> Trunk lid opener actuator is OK.
NO >> Refer to [DLK-118, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000011536497

Regarding Wiring Diagram information, refer to [DLK-64, "Wiring Diagram"](#).

1. CHECK TRUNK LID OPENER INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect trunk lid opener assembly connector.
3. Check voltage between trunk lid opener assembly harness connector and ground.

(+)		(-)	Condition	Voltage (Approx.)
Trunk lid opener assembly Connector	Terminal			
B59	3	Ground	Trunk lid opener switch is ON	12 V

Is the inspection result normal?

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

2. CHECK TRUNK LID OPENER ACTUATOR CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM harness connector and trunk lid opener assembly harness connector.

BCM		Trunk lid opener assembly		Continuity
Connector	Terminal	Connector	Terminal	
B24	107	B59	3	Yes

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
B24	107		No

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-76, "Removal and Installation"](#).
NO >> Repair or replace harness.

3. CHECK TRUNK LID OPENER ACTUATOR GROUND CIRCUIT

Check continuity between trunk lid opener assembly harness connector and ground.

TRUNK LID OPENER ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Trunk lid opener assembly		Ground	Continuity
Connector	Terminal		Yes
B59	2		

Is the inspection normal?

YES >> Replace trunk lid opener assembly.

NO >> Repair or replace harness.

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TRUNK LID OPENER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

TRUNK LID OPENER SWITCH

Component Function Check

INFOID:0000000011536498

1. CHECK FUNCTION

1. Select TRUNK of BCM using CONSULT.
2. Select TR/BD OPEN SW in DATA MONITOR mode.
3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
TR/BD OPEN SW	Trunk lid opener switch	Pressed	On
		Released	Off

Is the inspection result normal?

- YES >> Trunk lid opener switch is OK.
 NO >> Refer to [DLK-120, "Diagnosis Procedure"](#).

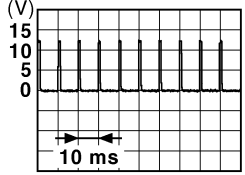
Diagnosis Procedure

INFOID:0000000011536499

Regarding Wiring Diagram information, refer to [DLK-64, "Wiring Diagram"](#).

1. CHECK TRUNK LID OPENER INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect trunk lid opener switch connector.
3. Check signal between trunk lid opener switch harness connector and ground using oscilloscope.

(+)		(-)	Signal (Reference value)
Connector	Terminal		
M15	1	Ground	 <p>(V) 15 10 5 0</p> <p>10 ms</p> <p>JPMIA0012GB</p>

Is the inspection result normal?

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

2. CHECK TRUNK LID OPENER SWITCH CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM harness connector and trunk lid opener switch harness connector.

BCM		Trunk lid opener switch		Continuity
Connector	Terminal	Connector	Terminal	
M84	30	M15	1	Yes

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M84	30		No

TRUNK LID OPENER SWITCH

[WITH INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-76, "Removal and Installation"](#).

NO >> Repair or replace harness.

3. CHECK TRUNK LID OPENER SWITCH GROUND CIRCUIT

Check continuity between trunk lid opener switch harness connector and ground.

Trunk lid opener switch		Ground	Continuity
Connector	Terminal		Yes
M15	2		

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4. CHECK TRUNK LID OPENER SWITCH

Refer to [DLK-121, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace trunk lid opener switch.

5. CHECK INTERMITTENT INCIDENT

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

>> Inspection End.

Component Inspection

INFOID:0000000011536500

1. CHECK TRUNK LID OPENER SWITCH

1. Turn ignition switch OFF.
2. Disconnect trunk lid opener switch connector.
3. Check continuity between trunk lid opener switch terminals.

Trunk lid opener switch		Condition		Continuity
Terminal		Trunk lid opener switch	Pressed	Yes
1	2		Release	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace trunk lid opener switch.

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TRUNK LAMP SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

TRUNK LAMP SWITCH

Description

INFOID:000000011536501

Detects trunk open/close condition.

Component Function Check

INFOID:000000011536502

1. CHECK FUNCTION

With CONSULT

Check TRNK/HAT MNTR in Data Monitor mode with CONSULT.

Monitor item	Condition
TRNK/HAT MNTR	OPEN : ON
	CLOSE : OFF

Is the inspection result normal?

- YES >> Trunk lid switch is OK.
- NO >> Refer to [DLK-122, "Diagnosis Procedure"](#).

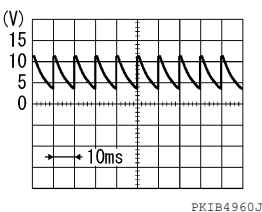
Diagnosis Procedure

INFOID:000000011536503

Regarding Wiring Diagram information, refer to [DLK-64, "Wiring Diagram"](#).

1. CHECK TRUNK LID SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Check voltage between BCM connector and ground.

Terminals		Trunk condition	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal	OPEN	0
B24	103	CLOSE	 <p>7.0 - 8.0V</p>

Is the inspection result normal?

- YES >> GO TO 6
- NO >> GO TO 2

2. CHECK TRUNK LID SWITCH CIRCUIT

1. Disconnect BCM and trunk lid opener assembly connector.
2. Check continuity between BCM connector and trunk lid opener assembly connector.

BCM connector	Terminal	Trunk lid opener assembly connector	Terminal	Continuity
B24	103	B59	1	Yes

3. Check continuity between BCM connector and ground.

TRUNK LAMP SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

BCM connector	Terminal	Ground	Continuity
B24	103		No

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness between BCM and trunk lid opener assembly.

3.CHECK TRUNK LID SWITCH GROUND CIRCUIT

Check continuity between trunk lid opener assembly connector and ground.

Trunk lid opener assembly connector	Terminal	Ground	Continuity
B59	2		Yes

Is the inspection result normal?

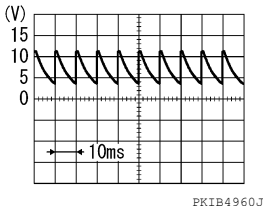
YES >> GO TO 4

NO >> Repair or replace trunk lid opener assembly ground circuit.

4.CHECK BCM OUTPUT SIGNAL

1. Ensure trunk lid remains closed during this step.
2. Connect BCM connector.
3. Check voltage between BCM connector and ground.

Terminals		Voltage (V) (Approx.)
(+)	(-)	
BCM connector	Terminal	
B24	103	Ground



7.0 - 8.0V

Is the inspection result normal?

YES >> GO TO 5

NO >> Replace BCM. Refer to [BCS-76. "Removal and Installation"](#).

5.CHECK TRUNK LID SWITCH

Refer to [DLK-123. "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 6

NO >> Replace trunk lid opener assembly.

6.CHECK INTERMITTENT INCIDENT

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

>> Inspection End.

Component Inspection

INFOID:000000011536504

1.CHECK TRUNK LID SWITCH

1. Turn ignition switch OFF.
2. Disconnect trunk lid opener assembly connector.
3. Check trunk lid switch.

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TRUNK LAMP SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Terminal		Trunk condition	Continuity
Trunk lid switch			
1	2	OPEN	Yes
		CLOSE	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace trunk lid opener assembly.

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH
< SYMPTOM DIAGNOSIS > **[WITH INTELLIGENT KEY SYSTEM]**

SYMPTOM DIAGNOSIS

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH

ALL DOOR

ALL DOOR : Description

INFOID:0000000011536505

All doors do not lock/unlock using door lock and unlock switch.

ALL DOOR : Diagnosis Procedure

INFOID:0000000011536506

1.CHECK DOOR LOCK AND UNLOCK SWITCH

Check door lock and unlock switch.

Refer to [DLK-100. "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK DOOR LOCK ACTUATOR

Check front door lock assembly (driver side).

Refer to [DLK-95. "DRIVER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE BCM

1. Replace BCM. Refer to [BCS-76. "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

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

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000011536507

Driver side door does not lock/unlock using door lock and unlock switch.

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000011536508

1.CHECK DOOR LOCK ACTUATOR

Check front door lock assembly (driver side).

Refer to [DLK-95. "DRIVER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE BCM

1. Replace BCM. Refer to [BCS-76. "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

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

PASSENGER SIDE

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

PASSENGER SIDE : Description

INFOID:000000011536509

Passenger side door does not lock/unlock using door lock and unlock switch.

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000011536510

1.CHECK DOOR LOCK ACTUATOR

Check front door lock assembly (passenger side).

Refer to [DLK-96, "PASSENGER SIDE : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE BCM

1. Replace BCM. Refer to [BCS-76, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

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

REAR LH

REAR LH : Description

INFOID:000000011536511

Rear LH side door does not lock/unlock using door lock and unlock switch.

REAR LH : Diagnosis Procedure

INFOID:000000011536512

1.CHECK DOOR LOCK ACTUATOR

Check rear door lock assembly LH.

Refer to [DLK-97, "REAR LH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE BCM

1. Replace BCM. Refer to [BCS-76, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

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

REAR RH

REAR RH : Description

INFOID:000000011536513

Rear RH side door does not lock/unlock using door lock and unlock switch.

REAR RH : Diagnosis Procedure

INFOID:000000011536514

1.CHECK DOOR LOCK ACTUATOR

Check rear door lock assembly RH.

Refer to [DLK-98, "REAR RH : Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.REPLACE BCM

1. Replace BCM. Refer to [BCS-76, "Removal and Installation"](#).

DOOR DOES NOT LOCK/UNLOCK WITH DOOR LOCK AND UNLOCK SWITCH
[WITH INTELLIGENT KEY SYSTEM]

< SYMPTOM DIAGNOSIS >

2. Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

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

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DOOR DOES NOT LOCK/UNLOCK WITH DRIVER SIDE DOOR LOCK KNOB OR DOOR KEY CYLINDER

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

DOOR DOES NOT LOCK/UNLOCK WITH DRIVER SIDE DOOR LOCK KNOB OR DOOR KEY CYLINDER

Diagnosis Procedure

INFOID:000000011536515

1. CHECK POWER DOOR LOCK OPERATION

Check power door lock operation.

Does door lock/unlock with door lock and unlock switch?

YES >> GO TO 2.

NO >> Refer to [DLK-125, "ALL DOOR : Diagnosis Procedure"](#).

2. CHECK DOOR KEY CYLINDER SWITCH

Check door key cylinder switch.

Refer to [DLK-105, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. REPLACE BCM

1. Replace BCM. Refer to [BCS-76, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

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

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH

ALL DOOR REQUEST SWITCHES

ALL DOOR REQUEST SWITCHES : Description

INFOID:0000000011536516

All doors do not lock/unlock using all door request switches.

ALL DOOR REQUEST SWITCHES : Diagnosis Procedure

INFOID:0000000011536517

1. CHECK REMOTE KEYLESS ENTRY FUNCTION

Check remote keyless entry function.

Does door lock/unlock with Intelligent Key button?

YES >> GO TO 2.

NO >> Refer to [DLK-131, "Diagnosis Procedure"](#).

2. CHECK LOCK/UNLOCK BY I-KEY SETTING IN WORK SUPPORT

1. Select INTELLIGENT KEY of BCM using CONSULT.

2. Select LOCK/UNLOCK BY I-KEY in WORK SUPPORT mode.

3. Check LOCK/UNLOCK BY I-KEY setting in WORK SUPPORT.

Refer to [BCS-22, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Set "ON" in "LOCK/UNLOCK BY I-KEY".

3. CHECK DOOR SWITCH

Check door switch.

Refer to [DLK-109, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. CHECK INSIDE KEY ANTENNA

Check inside key antenna.

• Instrument center: Refer to [DLK-75, "DTC Logic"](#).

• Console: Refer to [DLK-78, "DTC Logic"](#).

• Trunk room: Refer to [DLK-81, "DTC Logic"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5. CHECK OUTSIDE KEY ANTENNA

Check outside key antenna.

• Driver side: Refer to [DLK-84, "DTC Logic"](#).

• Passenger side: Refer to [DLK-87, "DTC Logic"](#).

• Rear bumper: Refer to [DLK-90, "DTC Logic"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

6. REPLACE BCM

1. Replace BCM. Refer to [BCS-76, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

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

DRIVER SIDE DOOR REQUEST SWITCH

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DOOR DOES NOT LOCK/UNLOCK WITH DOOR REQUEST SWITCH

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

DRIVER SIDE DOOR REQUEST SWITCH : Description

INFOID:000000011536518

All doors do not lock/unlock using driver side door request switch.

DRIVER SIDE DOOR REQUEST SWITCH : Diagnosis Procedure

INFOID:000000011536519

1.CHECK DRIVER SIDE DOOR REQUEST SWITCH

Check driver side door request switch.

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

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK OUTSIDE KEY ANTENNA

Check outside key antenna (driver side).

Refer to [DLK-84, "DTC Logic"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE BCM

1. Replace BCM. Refer to [BCS-76, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

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

PASSENGER SIDE DOOR REQUEST SWITCH

PASSENGER SIDE DOOR REQUEST SWITCH : Description

INFOID:000000011536520

All doors do not lock/unlock using passenger side door request switch.

PASSENGER SIDE DOOR REQUEST SWITCH : Diagnosis Procedure

INFOID:000000011536521

1.CHECK PASSENGER SIDE DOOR REQUEST SWITCH

Check passenger side door request switch.

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

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK OUTSIDE KEY ANTENNA

Check outside key antenna (passenger side).

Refer to [DLK-87, "DTC Logic"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE BCM

1. Replace BCM. Refer to [BCS-76, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End

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

DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

DOOR DOES NOT LOCK/UNLOCK WITH INTELLIGENT KEY

Diagnosis Procedure

INFOID:000000011536522

1. CHECK POWER DOOR LOCK OPERATION

Check power door lock operation.

Does door lock/unlock with door lock and unlock switch?

YES >> GO TO 2.

NO >> Refer to [DLK-125, "ALL DOOR : Diagnosis Procedure"](#).

2. CHECK REMOTE KEYLESS ENTRY RECEIVER

Check remote keyless entry receiver.

Refer to [DLK-115, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. CHECK INTELLIGENT KEY

Check Intelligent Key.

Refer to [DLK-113, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. CHECK DOOR SWITCH

Check door switch.

Refer to [DLK-109, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5. REPLACE BCM

1. Replace BCM. Refer to [BCS-76, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End

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

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TRUNK LID DOES NOT OPEN

[WITH INTELLIGENT KEY SYSTEM]

< SYMPTOM DIAGNOSIS >

TRUNK LID DOES NOT OPEN

TRUNK LID OPENER SWITCH

TRUNK LID OPENER SWITCH : Description

INFOID:000000011536523

Trunk lid does not open by trunk lid opener switch operation.

TRUNK LID OPENER SWITCH : Diagnosis Procedure

INFOID:000000011536524

1.CHECK TRUNK LID OPENER SWITCH

Check trunk lid opener switch.

Refer to [DLK-120, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace the malfunctioning parts.

2.CHECK TRUNK LID OPENER ACTUATOR

Check trunk lid opener actuator.

Refer to [DLK-118, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE BCM

1. Replace BCM. Refer to [BCS-76, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

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

INTELLIGENT KEY

INTELLIGENT KEY : Description

INFOID:000000011536525

Trunk lid does not open by Intelligent Key remote operation.

INTELLIGENT KEY : Diagnosis Procedure

INFOID:000000011536526

1.CHECK TRUNK LID OPEN FUNCTION

Check trunk lid open function with trunk lid opener switch.

Does trunk lid open with trunk lid opener switch?

YES >> GO TO 2.

NO >> Refer to [DLK-132, "TRUNK LID OPENER SWITCH : Diagnosis Procedure"](#).

2.CHECK REMOTE KEYLESS ENTRY FUNCTION

Check remote keyless entry function.

Does door lock/unlock with Intelligent Key button?

YES >> GO TO 3.

NO >> Refer to [DLK-131, "Diagnosis Procedure"](#).

3.CHECK INTELLIGENT KEY

Check Intelligent Key.

Refer to [DLK-113, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.REPLACE BCM

TRUNK LID DOES NOT OPEN

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

1. Replace BCM. Refer to [BCS-76, "Removal and Installation"](#).
2. Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

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

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IGNITION POSITION WARNING FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

IGNITION POSITION WARNING FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000011536527

1. CHECK POWER DOOR LOCK OPERATION

Check power door lock operation.

Does door lock/unlock with driver side door lock knob and door key cylinder?

YES >> GO TO 2.

NO >> Refer to [DLK-128, "Diagnosis Procedure"](#).

2. CHECK DOOR SWITCH

Check door switch.

Refer to [DLK-109, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3. REPLACE BCM

1. Replace BCM. Refer to [BCS-76, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

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

AUTO DOOR LOCK OPERATION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

AUTO DOOR LOCK OPERATION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000011536528

1. CHECK AUTO LOCK SET SETTING IN WORK SUPPORT

1. Select INTELLIGENT KEY of BCM using CONSULT.
2. Select AUTO LOCK SET in WORK SUPPORT mode.
3. Check AUTO LOCK SET setting in WORK SUPPORT.

Refer to [BCS-22, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Set MODE 2, MODE 3, MODE 4, MODE 5, MODE 6 or MODE 7 in AUTO LOCK SET.

2. REPLACE BCM

1. Replace BCM. Refer to [BCS-76, "Removal and Installation"](#).
2. Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

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

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VEHICLE SPEED SENSING AUTO LOCK OPERATION DOES NOT OPERATE
< SYMPTOM DIAGNOSIS > **[WITH INTELLIGENT KEY SYSTEM]**

VEHICLE SPEED SENSING AUTO LOCK OPERATION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000011536529

1. CHECK AUTOMATIC LOCK/UNLOCK SELECT SETTING IN WORK SUPPORT

1. Select DOOR LOCK of BCM using CONSULT.
2. Select AUTOMATIC LOCK/UNLOCK SELECT in WORK SUPPORT mode.
3. Check AUTOMATIC LOCK/UNLOCK SELECT setting in WORK SUPPORT.
Refer to [BCS-17, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)"](#).

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Set Lock Only or Lock/Unlock in WORK SUPPORT.

2. CHECK AUTOMATIC DOOR LOCK SELECT SETTING IN WORK SUPPORT

1. Select DOOR LOCK of BCM using CONSULT.
2. Select AUTOMATIC DOOR LOCK SELECT in WORK SUPPORT mode.
3. Check AUTOMATIC DOOR LOCK SELECT setting in WORK SUPPORT.
Refer to [BCS-17, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)"](#).

Is the inspection result normal?

- YES >> GO TO 3.
NO >> Set VH SPD in AUTOMATIC DOOR LOCK SELECT.

3. REPLACE BCM

1. Replace BCM. Refer to [BCS-76, "Removal and Installation"](#).
2. Confirm the operation after replacement.

Is the result normal?

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

IGN OFF INTERLOCK DOOR UNLOCK FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

IGN OFF INTERLOCK DOOR UNLOCK FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000011536530

1. CHECK AUTOMATIC LOCK/UNLOCK SELECT SETTING IN WORK SUPPORT

1. Select DOOR LOCK of BCM using CONSULT.
2. Select AUTOMATIC LOCK/UNLOCK SELECT in WORK SUPPORT mode.
3. Check AUTOMATIC LOCK/UNLOCK SELECT setting in WORK SUPPORT.
Refer to [BCS-17, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Set Unlock Only or Lock/Unlock in AUTOMATIC LOCK/UNLOCK SELECT.

2. CHECK AUTOMATIC DOOR UNLOCK SELECT SETTING IN WORK SUPPORT

1. Select DOOR LOCK of BCM using CONSULT.
2. Select AUTOMATIC DOOR UNLOCK SELECT in WORK SUPPORT mode.
3. Check AUTOMATIC DOOR UNLOCK SELECT setting in WORK SUPPORT.
Refer to [BCS-17, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Set MODE 1 or MODE 3 in AUTOMATIC DOOR UNLOCK SELECT.

3. REPLACE BCM

1. Replace BCM. Refer to [BCS-76, "Removal and Installation"](#).
2. Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

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

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HAZARD AND BUZZER REMINDER DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

HAZARD AND BUZZER REMINDER DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000011536531

1. CHECK HAZARD ANSWER BACK SETTING IN WORK SUPPORT

1. Select INTELLIGENT KEY of BCM using CONSULT.
2. Select HAZARD ANSWER BACK in WORK SUPPORT mode.
3. Check the HAZARD ANSWER BACK setting in WORK SUPPORT.
Refer to [BCS-22, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

Is the inspection result normal?

YES >> GO TO 2.

NO >> Set the Lock Only, Unlock Only or Lock/Unlock in HAZARD ANSWER BACK.

2. CHECK ANS BACK I-KEY LOCK SETTING IN WORK SUPPORT

1. Select INTELLIGENT KEY of BCM using CONSULT.
2. Select ANS BACK I-KEY LOCK in WORK SUPPORT mode.
3. Check the ANS BACK I-KEY LOCK setting in WORK SUPPORT.
Refer to [BCS-22, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Set the Horn Chirp or Buzzer in ANS BACK I-KEY LOCK.

3. CHECK ANS BACK I-KEY UNLOCK SETTING IN WORK SUPPORT

1. Select INTELLIGENT KEY of BCM using CONSULT.
2. Select ANS BACK I-KEY UNLOCK in WORK SUPPORT mode.
3. Check the ANS BACK I-KEY UNLOCK setting in WORK SUPPORT.
Refer to [BCS-22, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Set the On in ANS BACK I-KEY UNLOCK.

4. CHECK HAZARD FUNCTION

Check hazard function.

Refer to [DLK-112, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5. CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.

Refer to [DLK-94, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

6. REPLACE BCM

1. Replace BCM. Refer to [BCS-76, "Removal and Installation"](#).
2. Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

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

KEY REMINDER FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

KEY REMINDER FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000011536532

1. CHECK ANTI KEY LOCK IN FUNCTI SETTING IN WORK SUPPORT

1. Select INTELLIGENT KEY of BCM using CONSULT.
2. Select ANTI KEY LOCK IN FUNCTI in WORK SUPPORT mode.
3. Check ANTI KEY LOCK IN FUNCTI setting in WORK SUPPORT.
Refer to [BCS-22, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

Is the inspection result normal?

- YES >> GO TO 2.
NO >> Set On in ANTI KEY LOCK IN FUNCTI.

2. CHECK DOOR SWITCH

Check door switch.
Refer to [DLK-109, "Component Function Check"](#).

Is the inspection result normal?

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

3. CHECK INSIDE KEY ANTENNA

Check inside key antenna.
• Instrument center: Refer to [DLK-75, "DTC Logic"](#).
• Console: Refer to [DLK-78, "DTC Logic"](#).
• Trunk room: Refer to [DLK-81, "DTC Logic"](#).

Is the inspection result normal?

- YES >> GO TO 4.
NO >> Repair or replace the malfunctioning parts.

4. CHECK UNLOCK SENSOR

Check unlock sensor.
Refer to [DLK-103, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 5.
NO >> Repair or replace the malfunctioning parts.

5. REPLACE BCM

1. Replace BCM. Refer to [BCS-76, "Removal and Installation"](#).
2. Confirm the operation after replacement.

Is the result normal?

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

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OFF POSITION WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

OFF POSITION WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000011536533

1. CHECK DTC WITH BCM

Check that DTC is not detected with BCM

Is the inspection result normal?

YES >> GO TO 2.

NO >> Perform trouble diagnosis relevant to DTC indicated.

2. CHECK DTC WITH COMBINATION METER

Check that DTC is not detected with combination meter

Is the inspection result normal?

YES >> GO TO 3.

NO >> Perform trouble diagnosis relevant to DTC indicated.

3. CHECK DOOR SWITCH

Check front door switch (driver side).

Refer to [DLK-109, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. CHECK COMBINATION METER BUZZER

Check combination meter buzzer.

Refer to [DLK-94, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5. CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.

Refer to [DLK-94, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

6. REPLACE BCM

1. Replace BCM. Refer to [BCS-76, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

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

P POSITION WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

P POSITION WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000011536534

1.CHECK DTC WITH BCM

Check that DTC is not detected with BCM

Is the inspection result normal?

YES >> GO TO 2.

NO >> Perform trouble diagnosis relevant to DTC indicated.

2.CHECK DTC WITH COMBINATION METER

Check that DTC is not detected with combination meter

Is the inspection result normal?

YES >> GO TO 3.

NO >> Perform trouble diagnosis relevant to DTC indicated.

3.CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.

Refer to [DLK-94, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.CHECK COMBINATION METER BUZZER

Check combination meter buzzer.

Refer to [DLK-94, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5.CHECK DOOR SWITCH

Check front door switch (driver side).

Refer to [DLK-109, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

6.CHECK KEY WARNING LAMP

Check key warning lamp.

Refer to [DLK-114, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace the malfunctioning parts.

7.CHECK SHIFT P WARNING LAMP

Check shift P warning lamp.

Refer to [DLK-117, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 8.

NO >> Repair or replace the malfunctioning parts.

8.REPLACE BCM

1. Replace BCM. Refer to [BCS-76, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

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P POSITION WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

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

ACC WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

ACC WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000011536535

1.CHECK DTC WITH BCM

Check that DTC is not detected with BCM

Is the inspection result normal?

YES >> GO TO 2.

NO >> Perform trouble diagnosis relevant to DTC indicated.

2.CHECK DTC WITH COMBINATION METER

Check that DTC is not detected with combination meter

Is the inspection result normal?

YES >> GO TO 3.

NO >> Perform trouble diagnosis relevant to DTC indicated.

3.CHECK COMBINATION METER BUZZER

Check combination meter buzzer.

Refer to [DLK-94, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4.REPLACE BCM

1. Replace BCM. Refer to [BCS-76, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

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

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TAKE AWAY WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

TAKE AWAY WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000011536536

1. CHECK DTC WITH BCM

Check that DTC is not detected with BCM

Is the inspection result normal?

- YES >> GO TO 2.
- NO >> Perform trouble diagnosis relevant to DTC indicated.

2. CHECK DTC WITH COMBINATION METER

Check that DTC is not detected with combination meter

Is the inspection result normal?

- YES >> GO TO 3.
- NO >> Perform trouble diagnosis relevant to DTC indicated.

3. CHECK INSIDE KEY ANTENNA

Check inside key antenna.

- Instrument center: Refer to [DLK-75, "DTC Logic"](#).
- Console: Refer to [DLK-78, "DTC Logic"](#).
- Trunk room: Refer to [DLK-81, "DTC Logic"](#).

Is the inspection result normal?

- YES >> GO TO 4.
- NO >> Repair or replace the malfunctioning parts.

4. CHECK DOOR SWITCH

Check door switch.

Refer to [DLK-109, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 5.
- NO >> Repair or replace the malfunctioning parts.

5. CHECK COMBINATION METER BUZZER

Check combination meter buzzer.

Refer to [DLK-94, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 6.
- NO >> Repair or replace the malfunctioning parts.

6. CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.

Refer to [DLK-94, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 7.
- NO >> Repair or replace the malfunctioning parts.

7. CHECK KEY WARNING LAMP

Check key warning lamp.

Refer to [DLK-114, "Component Function Check"](#).

Is the inspection result normal?

- YES >> GO TO 8.
- NO >> Repair or replace the malfunctioning parts.

8. REPLACE BCM

1. Replace BCM. Refer to [BCS-76, "Removal and Installation"](#).
2. Confirm the operation after replacement.

TAKE AWAY WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Is the result normal?

YES >> Inspection End.

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

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INTELLIGENT KEY LOW BATTERY WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

INTELLIGENT KEY LOW BATTERY WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000011536537

1. CHECK DTC WITH BCM

Check that DTC is not detected with BCM

Is the inspection result normal?

YES >> GO TO 2.

NO >> Perform trouble diagnosis relevant to DTC indicated.

2. CHECK DTC WITH COMBINATION METER

Check that DTC is not detected with combination meter

Is the inspection result normal?

YES >> GO TO 3.

NO >> Perform trouble diagnosis relevant to DTC indicated.

3. CHECK LO- BATT OF KEY FOB WARN SETTING IN WORK SUPPORT

1. Select INTELLIGENT KEY of BCM.

2. Select LO- BATT OF KEY FOB WARN in WORK SUPPORT mode.

3. Check LO- BATT OF KEY FOB WARN setting in WORK SUPPORT.

Refer to [BCS-22, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Set ON in LO- BATT OF KEY FOB WARN.

4. CHECK INTELLIGENT KEY

Check Intelligent Key.

Refer to [DLK-113, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5. CHECK INSIDE KEY ANTENNA

Check inside key antenna.

• Instrument center: Refer to [DLK-75, "DTC Logic"](#).

• Console: Refer to [DLK-78, "DTC Logic"](#).

• Trunk room: Refer to [DLK-81, "DTC Logic"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

6. CHECK KEY WARNING LAMP

Check key warning lamp.

Refer to [DLK-114, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 7.

NO >> Repair or replace the malfunctioning parts.

7. REPLACE BCM

1. Replace BCM. Refer to [BCS-76, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

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

DOOR LOCK OPERATION WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

DOOR LOCK OPERATION WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000011536538

1.CHECK DOOR LOCK FUNCTION

Check door lock function.

Does door lock/unlock using door request switch?

YES >> GO TO 2.

NO >> Refer to [DLK-129, "ALL DOOR REQUEST SWITCHES : Diagnosis Procedure"](#).

2.CHECK INTELLIGENT KEY WARNING BUZZER

Check Intelligent Key warning buzzer.

Refer to [DLK-94, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.REPLACE BCM

1. Replace BCM. Refer to [BCS-76, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

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

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KEY ID WARNING DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

KEY ID WARNING DOES NOT OPERATE

Diagnosis Procedure

INFOID:000000011536539

1. CHECK DTC WITH BCM

Check that DTC is not detected with BCM

Is the inspection result normal?

YES >> GO TO 2.

NO >> Perform trouble diagnosis relevant to DTC indicated.

2. CHECK DTC WITH COMBINATION METER

Check that DTC is not detected with combination meter

Is the inspection result normal?

YES >> GO TO 3.

NO >> Perform trouble diagnosis relevant to DTC indicated.

3. CHECK INTELLIGENT KEY

Check Intelligent Key.

Refer to [DLK-113, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace the malfunctioning parts.

4. CHECK INSIDE KEY ANTENNA

Check inside key antenna.

• Instrument center: Refer to [DLK-75, "DTC Logic"](#).

• Console: Refer to [DLK-78, "DTC Logic"](#).

• Trunk room: Refer to [DLK-81, "DTC Logic"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Repair or replace the malfunctioning parts.

5. CHECK KEY WARNING LAMP

Check key warning lamp.

Refer to [DLK-114, "Component Function Check"](#).

Is the inspection result normal?

YES >> GO TO 6.

NO >> Repair or replace the malfunctioning parts.

6. REPLACE BCM

1. Replace BCM. Refer to [BCS-76, "Removal and Installation"](#).

2. Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

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

PANIC ALARM FUNCTION DOES NOT OPERATE

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

PANIC ALARM FUNCTION DOES NOT OPERATE

Diagnosis Procedure

INFOID:0000000011536540

1.CHECK REMOTE KEYLESS ENTRY FUNCTION

Check remote keyless entry function.

Does door lock/unlock with Intelligent Key button?

YES >> GO TO 2.

NO >> Refer to [DLK-131, "Diagnosis Procedure"](#).

2.CHECK HORN OPERATION

1. Select IPDM E/R using CONSULT.
2. Select HORN in ACTIVE TEST mode.
3. Touch On to check that it works normally.

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace the malfunctioning parts.

3.CHECK PANIC ALARM SET SETTING IN WORK SUPPORT

1. Select INTELLIGENT KEY of BCM.
2. Select PANIC ALARM SET in WORK SUPPORT mode.
3. Check PANIC ALARM SET setting in WORK SUPPORT.
Refer to [BCS-22, "INTELLIGENT KEY : CONSULT Function \(BCM - INTELLIGENT KEY\)"](#).

Is the inspection result normal?

YES >> GO TO 4.

NO >> Set MODE 1 or MODE 3 in PANIC ALARM SET

4.REPLACE BCM

1. Replace BCM. Refer to [BCS-76, "Removal and Installation"](#).
2. Confirm the operation after replacement.

Is the result normal?

YES >> Inspection End.

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

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

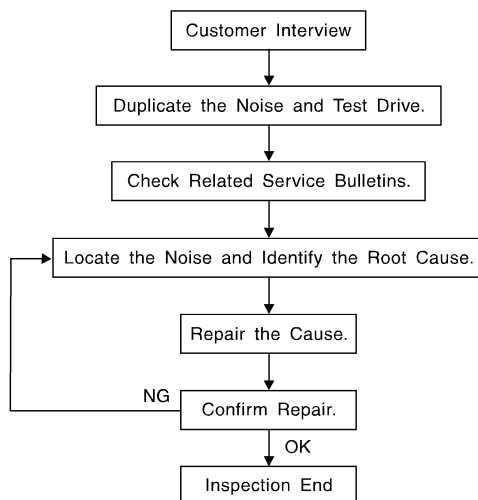
< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:000000011536541



SBT842

CUSTOMER INTERVIEW

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any customer's comments; refer to [DLK-154, "Diagnostic Worksheet"](#). This information is necessary to duplicate the conditions that exist when the noise occurs.

- The customer may not be able to provide a detailed description or the location of the noise. Attempt to obtain all the facts and conditions that exist when the noise occurs (or does not occur).
- If there is more than one noise in the vehicle, be sure to diagnose and repair the noise that the customer is concerned about. This can be accomplished by test driving the vehicle with the customer.
- After identifying the type of noise, isolate the noise in terms of its characteristics. The noise characteristics are provided so the customer, service adviser and technician are all speaking the same language when defining the noise.
- Squeak —(Like tennis shoes on a clean floor)
Squeak characteristics include the light contact/fast movement/brought on by road conditions/hard surfaces = higher pitch noise/softer surfaces = lower pitch noises/edge to surface = chirping.
- Creak—(Like walking on an old wooden floor)
Creak characteristics include firm contact/slow movement/twisting with a rotational movement/pitch dependent on materials/often brought on by activity.
- Rattle—(Like shaking a baby rattle)
Rattle characteristics include the fast repeated contact/vibration or similar movement/loose parts/missing clip or fastener/incorrect clearance.
- Knock —(Like a knock on a door)
Knock characteristics include hollow sounding/sometimes repeating/often brought on by driver action.
- Tick—(Like a clock second hand)
Tick characteristics include gentle contacting of light materials/loose components/can be caused by driver action or road conditions.
- Thump—(Heavy, muffled knock noise)
Thump characteristics include softer knock/dead sound often brought on by activity.
- Buzz—(Like a bumble bee)
Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending upon the person. A noise that you may judge as acceptable may be very irritating to the customer.
- Weather conditions, especially humidity and temperature, may have a great effect on noise level.

DUPLICATE THE NOISE AND TEST DRIVE

If possible, drive the vehicle with the customer until the noise is duplicated. Note any additional information on the Diagnostic Worksheet regarding the conditions or location of the noise. This information can be used to duplicate the same conditions when you confirm the repair.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

[WITH INTELLIGENT KEY SYSTEM]

< SYMPTOM DIAGNOSIS >

If the noise can be duplicated easily during the test drive, to help identify the source of the noise, try to duplicate the noise with the vehicle stopped by doing one or all of the following:

- 1) Close a door.
 - 2) Tap or push/pull around the area where the noise appears to be coming from.
 - 3) Rev the engine.
 - 4) Use a floor jack to recreate vehicle "twist".
 - 5) At idle, apply engine load (electrical load, half-clutch on M/T model, drive position on CVT and A/T models).
 - 6) Raise the vehicle on a hoist and hit a tire with a rubber hammer.
- Drive the vehicle and attempt to duplicate the conditions the customer states exist when the noise occurs.
 - If it is difficult to duplicate the noise, drive the vehicle slowly on an undulating or rough road to stress the vehicle body.

CHECK RELATED SERVICE BULLETINS

After verifying the customer concern or symptom, check ASIST for Technical Service Bulletins (TSBs) related to that concern or symptom.

If a TSB relates to the symptom, follow the procedure to repair the noise.

LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Chassis Ear: J-39570, Engine Ear: J-39565 and mechanic's stethoscope).
2. Narrow down the noise to a more specific area and identify the cause of the noise by:
 - removing the components in the area that you suspect the noise is coming from.
Do not use too much force when removing clips and fasteners, otherwise clips and fasteners can be broken or lost during the repair, resulting in the creation of new noise.
 - tapping or pushing/pulling the component that you suspect is causing the noise.
Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.
 - feeling for a vibration with your hand by touching the component(s) that you suspect is (are) causing the noise.
 - placing a piece of paper between components that you suspect are causing the noise.
 - looking for loose components and contact marks.Refer to [DLK-151, "Generic Squeak and Rattle Troubleshooting"](#).

REPAIR THE CAUSE

- If the cause is a loose component, tighten the component securely.
- If the cause is insufficient clearance between components:
 - separate components by repositioning or loosening and retightening the component, if possible.
 - insulate components with a suitable insulator such as urethane pads, foam blocks, felt cloth tape or urethane tape. A NISSAN Squeak and Rattle Kit (J-50397) is available through your authorized NISSAN Parts Department.

CAUTION:

Do not use excessive force as many components are constructed of plastic and may be damaged.

NOTE:

- Always check with the Parts Department for the latest parts information.
- The materials contained in the NISSAN Squeak and Rattle Kit (J-50397) are listed on the inside cover of the kit; and can each be ordered separately as needed.
- The following materials not found in the kit can also be used to repair squeaks and rattles.
 - SILICONE GREASE: Use instead of UHMW tape that will be visible or does not fit. The silicone grease will only last a few months.
 - SILICONE SPRAY: Use when grease cannot be applied.
 - DUCT TAPE: Use to eliminate movement.

CONFIRM THE REPAIR

Confirm that the cause of a noise is repaired by test driving the vehicle. Operate the vehicle under the same conditions as when the noise originally occurred. Refer to the notes on the Diagnostic Worksheet.

Generic Squeak and Rattle Troubleshooting

INFOID:000000011536542

Refer to Table of Contents for specific component removal and installation information.

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

SQUEAK AND RATTLE TROUBLE DIAGNOSES

[WITH INTELLIGENT KEY SYSTEM]

< SYMPTOM DIAGNOSIS >

1. Cluster lid A and the instrument panel
2. Acrylic lens and combination meter housing
3. Instrument panel to front pillar finisher
4. Instrument panel to windshield
5. Instrument panel pins
6. Wiring harnesses behind the combination meter
7. A/C defroster duct and duct joint

These incidents can usually be located by tapping or moving the components to duplicate the noise or by pressing on the components while driving to stop the noise. Most of these incidents can be repaired by applying felt cloth tape or silicone spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness.

CAUTION:

Do not use silicone spray to isolate a squeak or rattle. If you saturate the area with silicone, you will not be able to recheck the repair.

CENTER CONSOLE

Components to pay attention to include:

1. Shift selector assembly cover to finisher
2. A/C control unit and cluster lid C
3. Wiring harnesses behind audio and A/C control unit

The instrument panel repair and isolation procedures also apply to the center console.

DOORS

Pay attention to the:

1. Finisher and inner panel making a slapping noise
2. Inside handle escutcheon to door finisher
3. Wiring harnesses tapping
4. Door striker out of alignment causing a popping noise on starts and stops

Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. You can usually insulate the areas with felt cloth tape or insulator foam blocks from the NISSAN Squeak and Rattle Kit (J-50397) to repair the noise.

TRUNK

Trunk noises are often caused by a loose jack or loose items put into the trunk by the owner.

In addition look for:

1. Trunk lid bumpers out of adjustment
2. Trunk lid striker out of adjustment
3. The trunk lid torsion bars knocking together
4. A loose license plate or bracket

Most of these incidents can be repaired by adjusting, securing or insulating the item(s) or component(s) causing the noise.

SUNROOF/HEADLINING

Noises in the sunroof/headlining area can often be traced to one of the following:

1. Sunroof lid, rail, linkage or seals making a rattle or light knocking noise
2. Sun visor shaft shaking in the holder
3. Front or rear windshield touching headlining and squeaking

Again, pressing on the components to stop the noise while duplicating the conditions can isolate most of these incidents. Repairs usually consist of insulating with felt cloth tape.

OVERHEAD CONSOLE (FRONT AND REAR)

Overhead console noises are often caused by the console panel clips not being engaged correctly. Most of these incidents are repaired by pushing up on the console at the clip locations until the clips engage.

In addition look for:

1. Loose harness or harness connectors.
2. Front console map/reading lamp lens loose.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

3. Loose screws at console attachment points.

SEATS

When isolating seat noise it's important to note the position the seat is in and the load placed on the seat when the noise is present. These conditions should be duplicated when verifying and isolating the cause of the noise.

Cause of seat noise include:

1. Headrest rods and holder
2. A squeak between the seat pad cushion and frame
3. The rear seatback lock and bracket

These noises can be isolated by moving or pressing on the suspected components while duplicating the conditions under which the noise occurs. Most of these incidents can be repaired by repositioning the component or applying urethane tape to the contact area.

UNDERHOOD

Some interior noise may be caused by components under the hood or on the engine wall. The noise is then transmitted into the passenger compartment.

Causes of transmitted underhood noise include:

1. Any component installed to the engine wall
2. Components that pass through the engine wall
3. Engine wall mounts and connectors
4. Loose radiator installation pins
5. Hood bumpers out of adjustment
6. Hood striker out of adjustment

These noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best method is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine rpm or load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or insulating the component causing the noise.

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

Diagnostic Worksheet

INFOID:000000011536543

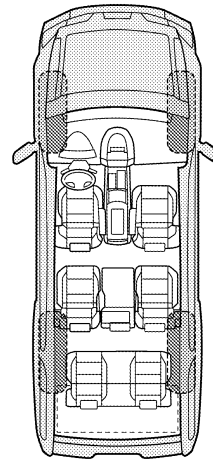
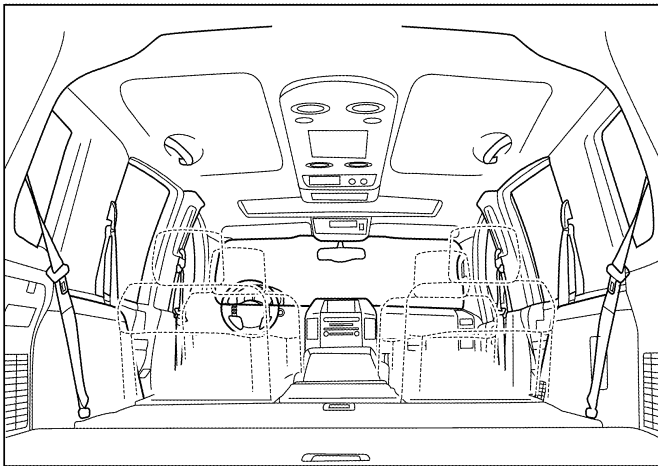
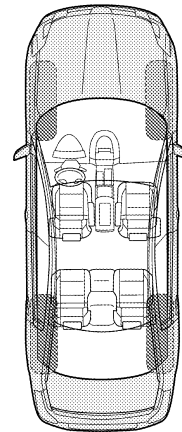
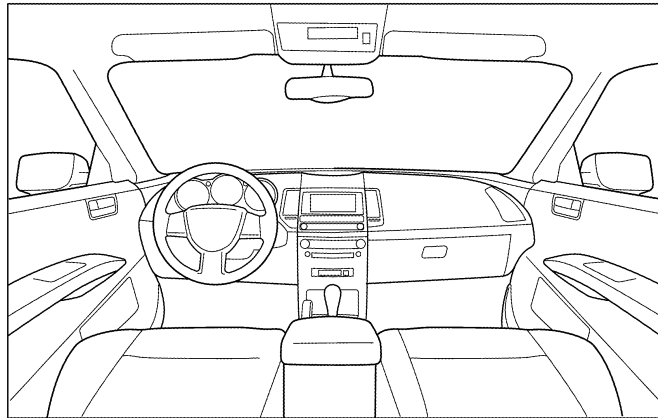
Dear Customer:

We are concerned about your satisfaction with your vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your vehicle right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under what conditions. You may be asked to take a test drive with a service advisor or technician to ensure we confirm the noise you are hearing.

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

I. WHERE DOES THE NOISE COME FROM? (circle the area of the vehicle)

The illustrations are for reference only, and may not reflect the actual configuration of your vehicle.



Continue to page 2 of the worksheet and briefly describe the location of the noise or rattle. In addition, please indicate the conditions which are present when the noise occurs.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITH INTELLIGENT KEY SYSTEM]

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET - page 2

Briefly describe the location where the noise occurs:

II. WHEN DOES IT OCCUR? (please check the boxes that apply)

- | | |
|---|--|
| <input type="checkbox"/> Anytime | <input type="checkbox"/> After sitting out in the rain |
| <input type="checkbox"/> 1st time in the morning | <input type="checkbox"/> When it is raining or wet |
| <input type="checkbox"/> Only when it is cold outside | <input type="checkbox"/> Dry or dusty conditions |
| <input type="checkbox"/> Only when it is hot outside | <input type="checkbox"/> Other: |

III. WHEN DRIVING:

- Through driveways
- Over rough roads
- Over speed bumps
- Only about ____ mph
- On acceleration
- Coming to a stop
- On turns: left, right or either (circle)
- With passengers or cargo
- Other: _____
- After driving ____ miles or ____ minutes

IV. WHAT TYPE OF NOISE

- Squeak (like tennis shoes on a clean floor)
- Creak (like walking on an old wooden floor)
- Rattle (like shaking a baby rattle)
- Knock (like a knock at the door)
- Tick (like a clock second hand)
- Thump (heavy muffled knock noise)
- Buzz (like a bumble bee)

TO BE COMPLETED BY DEALERSHIP PERSONNEL

Test Drive Notes:

	YES	NO	Initials of person performing
Vehicle test driven with customer	<input type="checkbox"/>	<input type="checkbox"/>	_____
- Noise verified on test drive	<input type="checkbox"/>	<input type="checkbox"/>	_____
- Noise source located and repaired	<input type="checkbox"/>	<input type="checkbox"/>	_____
- Follow up test drive performed to confirm repair	<input type="checkbox"/>	<input type="checkbox"/>	_____

VIN: _____ Customer Name _____

W.O.# _____ Date: _____

This form must be attached to Work Order

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HOOD

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

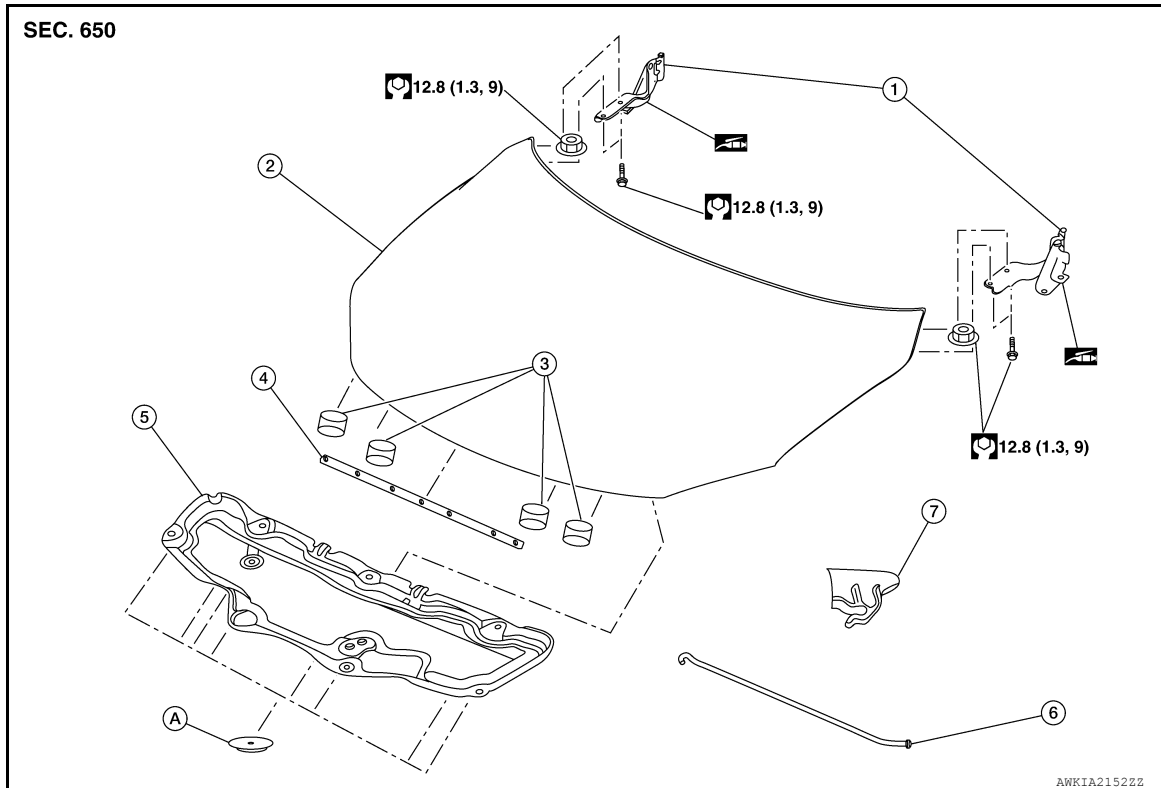
REMOVAL AND INSTALLATION

HOOD

HOOD ASSEMBLY

HOOD ASSEMBLY : Exploded View

INFOID:000000011536544



- | | | |
|---------------------------|-------------------|-----------------------|
| 1. Hood hinge (LH/RH) | 2. Hood assembly | 3. Hood bumper rubber |
| 4. Hood seal | 5. Hood insulator | 6. Hood support rod |
| 7. Hood support rod clamp | A. Clip | |

HOOD ASSEMBLY : Removal and Installation

INFOID:000000011536545

CAUTION:

- Use two people when removing or installing hood assembly due to its heavy weight.
- Use protective tape or shop cloths to protect surrounding components from damage during removal and installation of hood assembly.

REMOVAL

1. Support the hood assembly using a suitable tool.

WARNING:

Bodily injury may occur if hood assembly is not supported properly when removing hood assembly.

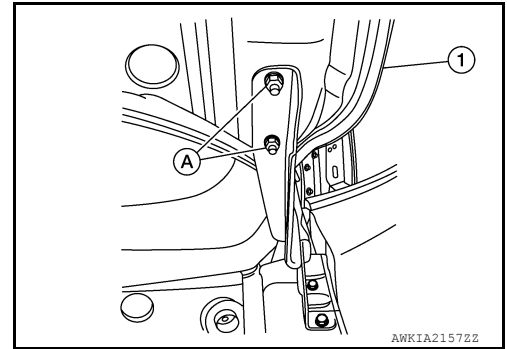
2. Disconnect front washer nozzle and tube.

HOOD

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

- Remove hood hinge to hood nuts (A) and then remove the hood assembly (1).



INSTALLATION

Installation is in the reverse order of removal.

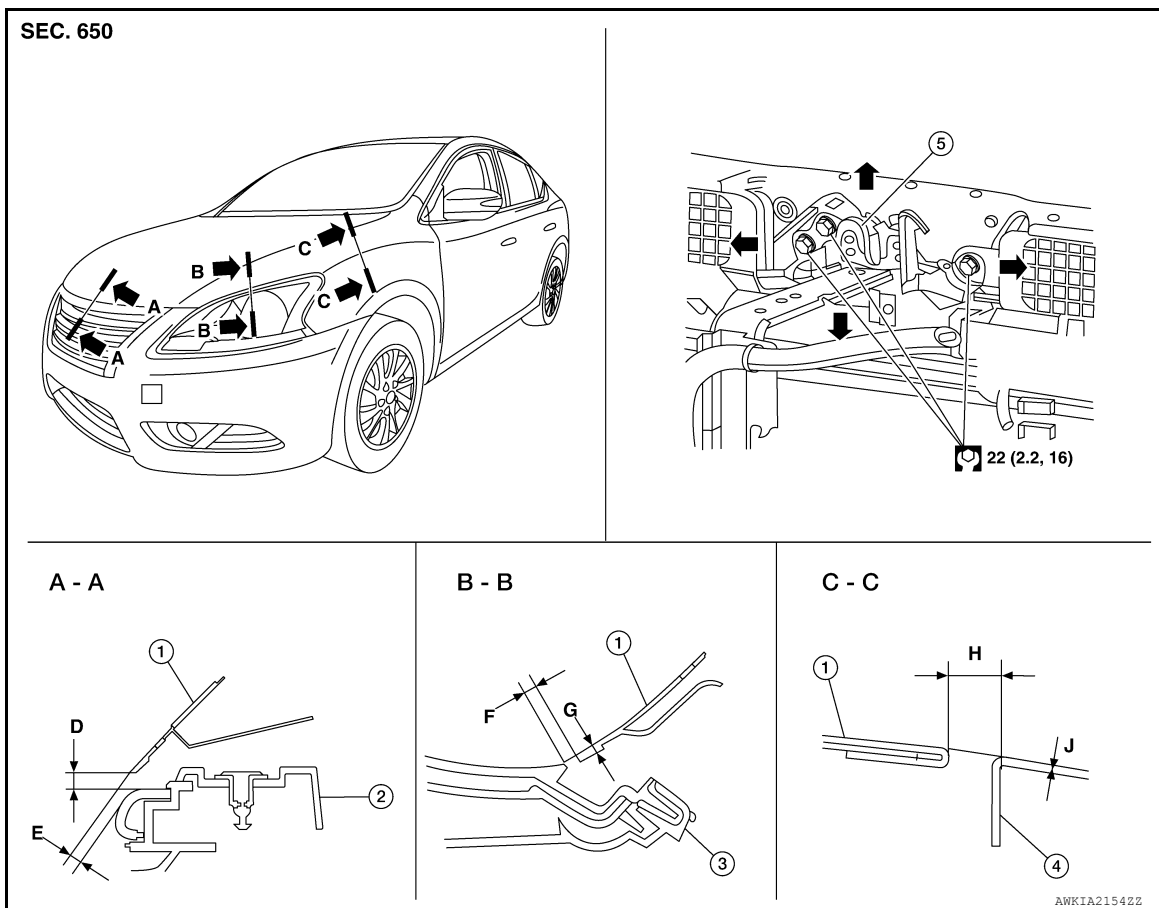
Tighten hood hinge to hood nuts to specified torque. Refer to [DLK-156, "HOOD ASSEMBLY : Exploded View"](#).

CAUTION:

- Before installing the hood hinge, apply anticorrosive agent onto the surface of the vehicle.
- After installation, perform the hood assembly adjustment procedure. Refer to [DLK-157, "HOOD ASSEMBLY : Adjustment"](#).

HOOD ASSEMBLY : Adjustment

INFOID:000000011536546



- Hood assembly
- Front grille

- Front combination lamp
- Hood lock assembly

- Front fender

Check the clearance and the surface height between hood and each part by visual inspection and tactile feel. If the clearance and the surface height are out of specification, adjust them according to the adjustment procedures.

HOOD

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

Unit: mm (in)

Section	Item	Measurement	Standard	Parallelism	Equality
A – A	D	Clearance	6.2 ±2.2 (0.24 ±0.09)	2.0	—
	E	Surface height	—	—	—
B – B	F	Clearance	3.5 ±2.0 (0.14 ±0.08)	2.0	3.0
	G	Surface height	3.6 ±2.0 (0.14 ±0.08)	2.0	2.0
C – C	H	Clearance	3.7 ±1.0 (0.15 ±0.04)	2.0	2.0
	J	Surface height	0.0 ±1.0 (0.00 ±0.04)	—	—

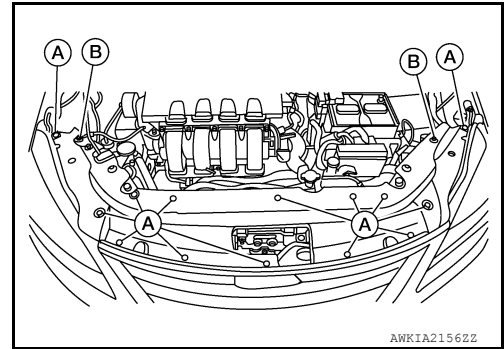
CLEARANCE ADJUSTMENT

- Loosen hood hinge (LH/RH) nuts and bolts.

NOTE:

The anticorrosive agent applied between the hoodledge and the hood hinges also acts as an adhesive. This seal must be broken before the hinges will move.

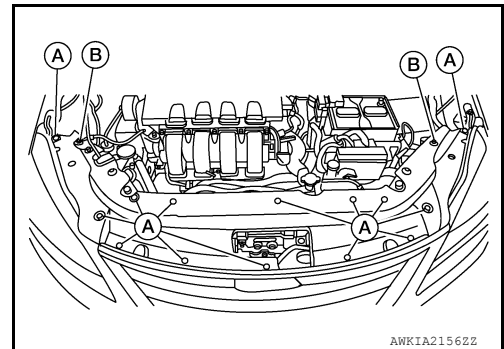
- Remove the radiator core support upper cover clips (A) and bolts (B) and remove.



- Loosen the hood lock assembly bolts.
- Adjust the hood assembly so the clearance measurements are within specifications provided. Then tighten the hood hinge nuts and bolts to specified torque. Refer to [DLK-156, "HOOD ASSEMBLY : Exploded View"](#).
- Tighten the hood lock assembly bolts to specified torque. Refer to [DLK-161, "HOOD LOCK CONTROL : Exploded View"](#).
- Install the radiator core support upper cover.

HEIGHT ADJUSTMENT

- Remove the radiator core support upper cover clips (A) and bolts (B) and remove.



- Loosen the hood lock assembly bolts.

HOOD

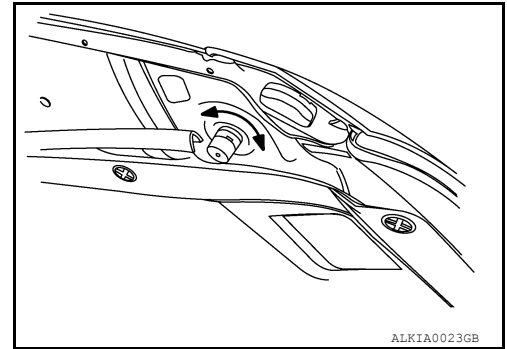
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

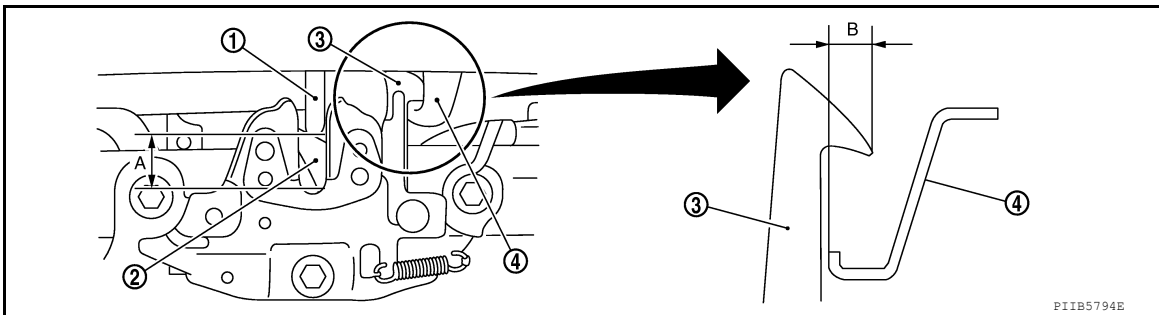
- Adjust the surface height of the hood assembly to front bumper fascia and front fender according to the specified values by rotating the hood bumper rubbers.

NOTE:

Only one hood bumper rubber shown for clarity.



- Temporarily tighten the hood lock assembly bolts.
- Adjust (A) and (B) as shown to the following value with hood's own weight by dropping it from approximately 200 mm (7.9 in) height or by pressing hood lightly [approximately 29 Nm (3.0 kg-m, 21 ft-lb)].



- | | | |
|--------------------|-------------------|----------------------|
| 1. Hood striker | 2. Primary latch | 3. Secondary striker |
| 4. Secondary latch | A. 20 mm (0.8 in) | B. 6.8 mm (0.27 in) |

- After adjustment, tighten hood hinge nuts and bolts to the specified torque. Refer to [DLK-156, "HOOD ASSEMBLY : Exploded View"](#).

CAUTION:

- Check hood hinge rotating part for poor lubrication. If necessary, apply a suitable multi-purpose grease.
- After adjusting, apply touch-up paint (body color) to the head of hood hinge bolts and nuts.

- Tighten the hood lock assembly bolts to specified torque.
- Install the radiator core support upper cover.
- If the clearance measurements between the hood and fender cannot be corrected by adjusting the hood, the fender must be adjusted. Refer to [DLK-167, "Adjustment"](#).

HOOD HINGE

HOOD HINGE : Removal and Installation

INFOID:000000011536547

REMOVAL

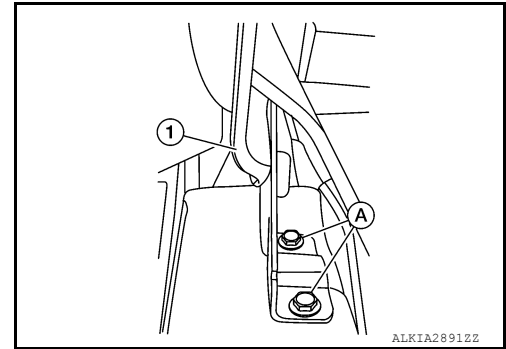
- Remove the fender protector. Refer to [EXT-29, "FENDER PROTECTOR : Removal and Installation - Front Fender Protector"](#).
- Remove the core support upper cover. Refer to [HA-39, "Exploded View"](#).
- Remove the front fascia. Refer to [EXT-18, "Removal and Installation"](#).
- Remove the front combination lamp. Refer to [EXL-120, "Removal and Installation"](#).
- Remove the front fender. Refer to [DLK-166, "Removal and Installation"](#).

HOOD

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

6. Remove hood hinge bolts (A) and hood hinge (1).



INSTALLATION

Installation is in the reverse order of removal.

Tighten bolts to specified torque. Refer to [DLK-156, "HOOD ASSEMBLY : Exploded View"](#).

CAUTION:

- Before installing the hood hinge, apply anticorrosive agent onto the surface of the vehicle.
- After installation, perform hood assembly adjustment procedure. Refer to [DLK-157, "HOOD ASSEMBLY : Adjustment"](#).

HOOD SUPPORT ROD

HOOD SUPPORT ROD : Removal and Installation

INFOID:000000011536548

REMOVAL

1. Support hood assembly using a suitable tool.

WARNING:

Bodily injury may occur if hood assembly is not supported properly when removing hood support rod.

2. Rotate and remove hood support rod from grommet.
3. Remove grommet from hood hinge using a suitable tool (if necessary).

INSTALLATION

Installation is in the reverse order of removal.

HOOD LOCK CONTROL

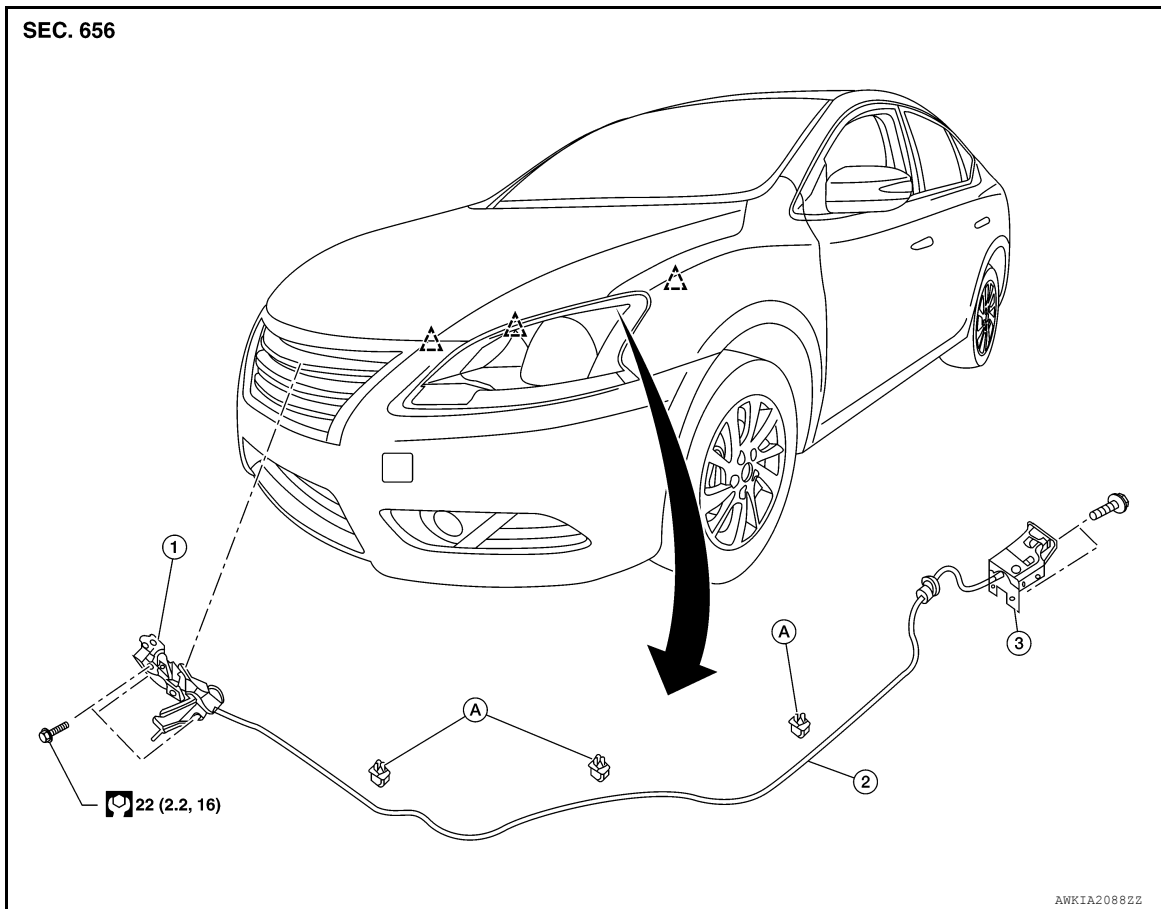
HOOD

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

HOOD LOCK CONTROL : Exploded View

INFOID:000000011536549



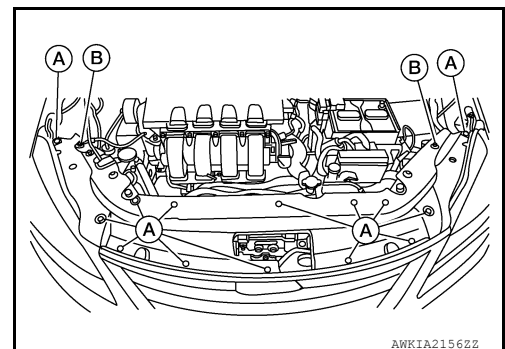
- 1. Hood lock assembly
- 2. Hood lock release cable
- 3. Hood lock/fuel filler door release handle assembly
- A. Hood lock release cable clip
- △ Clip

HOOD LOCK CONTROL : Removal and Installation

INFOID:000000011536550

REMOVAL

1. Remove the fender protector (LH). Refer to [EXT-29. "FENDER PROTECTOR : Removal and Installation - Front Fender Protector"](#).
2. Remove the radiator core support upper cover clips (A) and bolts (B) and remove.



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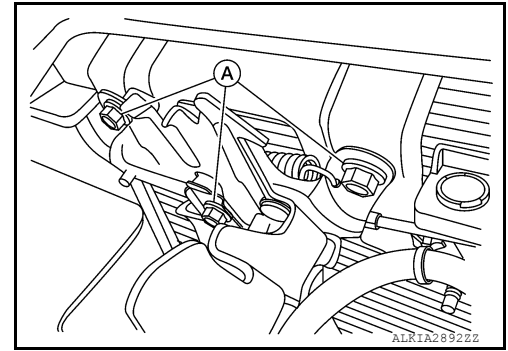
DLK

HOOD

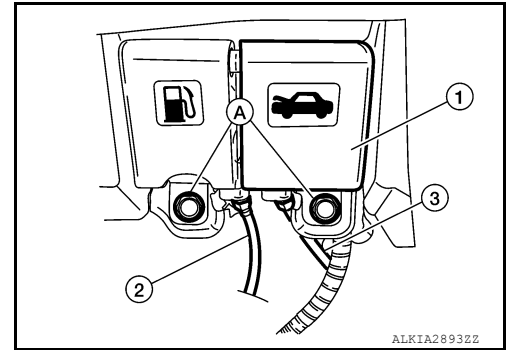
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

3. Remove the hood lock assembly bolts (A).



4. Disconnect the hood lock release cable from the hood lock assembly.
5. Remove the bolts (A), then separate the hood lock/fuel filler door release handle assembly (1) from the hood lock release cable (3) and fuel filler door release cable (2).



6. Remove the grommet from the dash assembly and pull the hood lock release cable into the passenger compartment.

CAUTION:

While pulling, be careful not to damage (peel) the outside of the hood lock release cable.

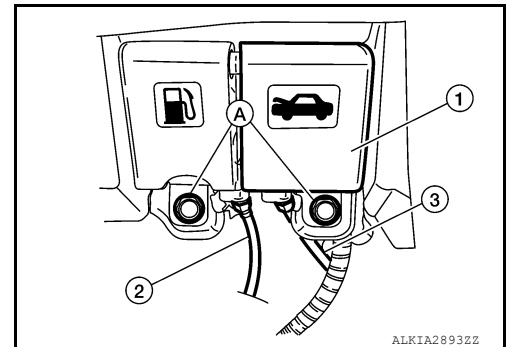
INSTALLATION

1. Pull the hood lock release cable through the dash assembly into the engine compartment.

CAUTION:

Be careful not to bend the cable too much, keep the radius 100 mm (3.94 in) or more.

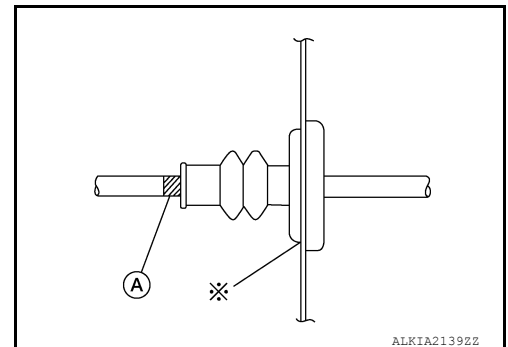
2. Attach the hood lock release cable (3) and the fuel filler door release cable (2) to the hood lock/fuel filler door release handle assembly (1).
3. Place hood lock/fuel filler door release handle assembly in position and retain with bolts (A).



4. Check that the cable is not offset from the center of the grommet and seat the grommet into the dash hole.

NOTE:

Make sure that the marked area (A) of the cable is located as shown after mounting grommet to dash upper assembly. Apply sealant around the grommet at * mark.



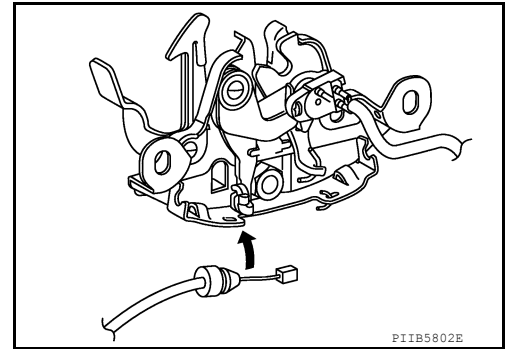
5. Position the hood lock release cable and clip it into place.

HOOD

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

6. Connect the hood lock release cable to the hood lock assembly.



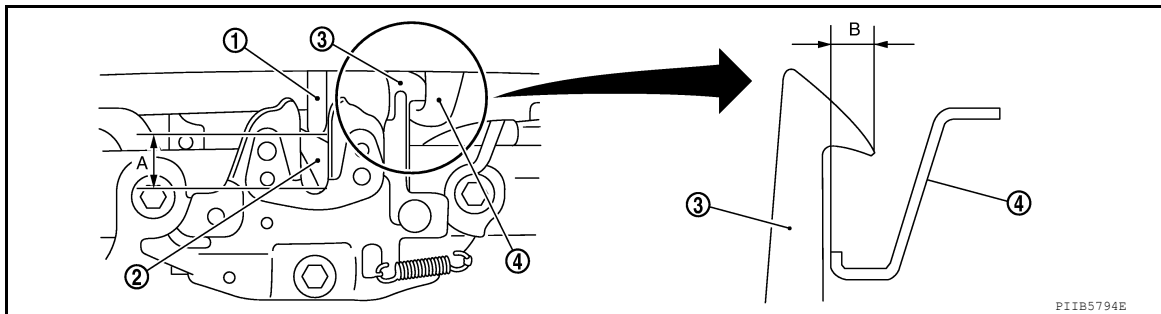
7. Perform hood fitting adjustment. Refer to [DLK-157, "HOOD ASSEMBLY : Adjustment"](#).
8. Perform the hood lock control inspection.

INSPECTION

NOTE:

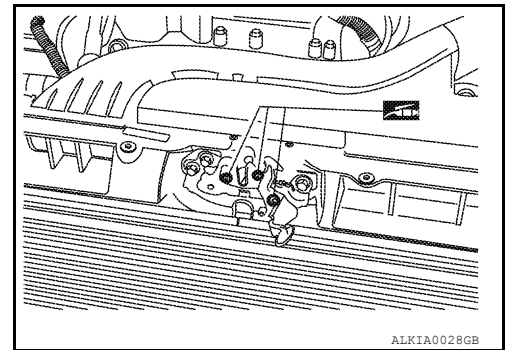
If the hood lock release cable is bent or deformed, replace it.

1. Check that the secondary latch is properly engaged with the secondary striker and meets specification provided (B) with hood's own weight.



- | | | |
|--------------------|-------------------|----------------------|
| 1. Hood striker | 2. Primary latch | 3. Secondary striker |
| 4. Secondary latch | A. 20 mm (0.8 in) | B. 6.8 mm (0.27 in) |

2. While operating the hood lock release handle, carefully check that the front end of the hood assembly is raised and meets the specification provided (A). Also check that the hood lock release handle returns to the original position.
3. Check that the hood lock release handle operating force is 49 N (5.0 kg, 11 lb) or less.
4. Install so the static closing force of the hood assembly is 49 – 490 N (5.0 – 50 kg-f, 36 - 110.2 lb-f).
5. Check the hood lock assembly lubrication condition. If necessary, apply a suitable multi-purpose grease as shown.



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RADIATOR CORE SUPPORT

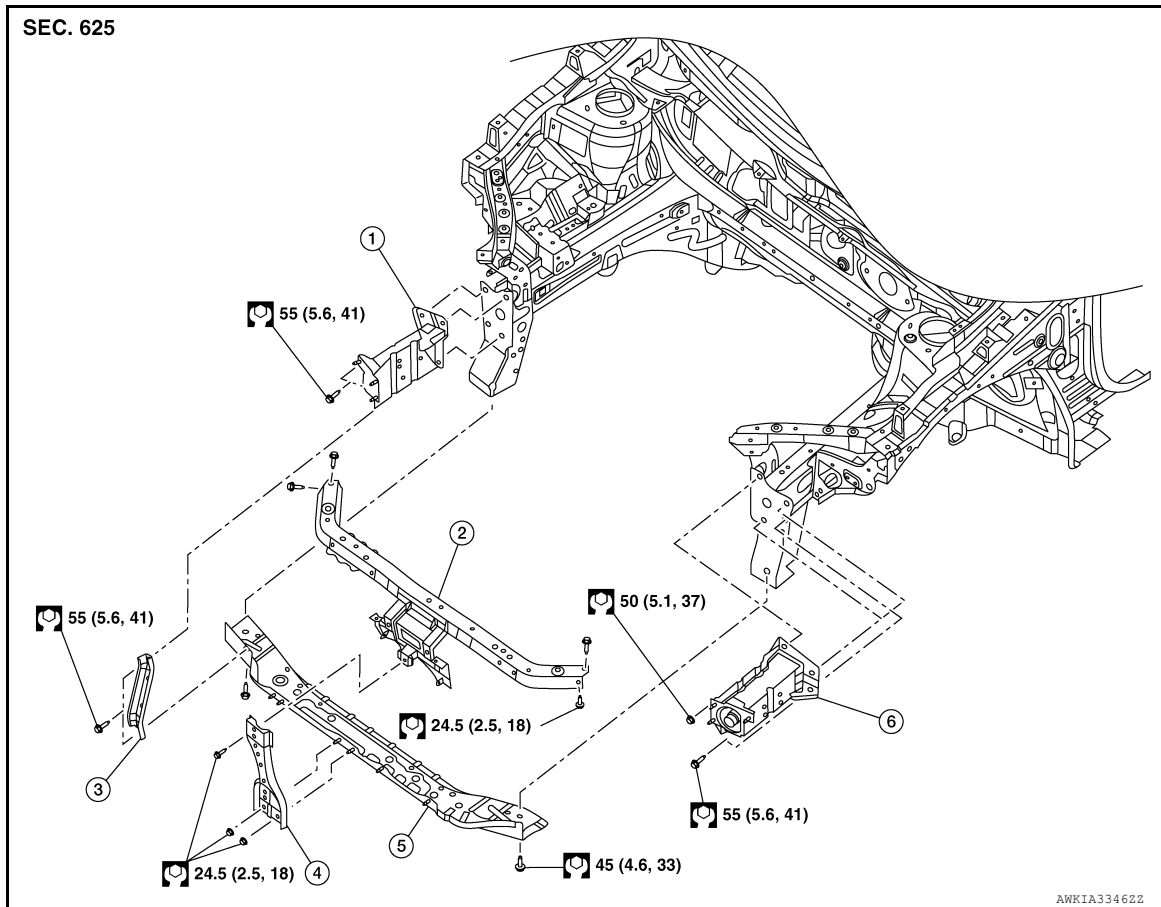
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

RADIATOR CORE SUPPORT

Exploded View

INFOID:000000011536551



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|----------------------------------|-----------------------|----------------------------------|
| 1. Core support side member (RH) | 2. Core support upper | 3. Core support lower stay |
| 4. Hood lock support | 5. Core support lower | 6. Core support side member (LH) |

Removal and Installation

INFOID:000000011536552

REMOVAL

CAUTION:

Before servicing, turn ignition switch OFF, disconnect both battery terminals and wait at least three minutes.

1. Disconnect the battery negative and positive terminals then wait at least three minutes. Refer to [PG-74, "Removal and Installation \(Battery\)"](#).
2. Remove crash zone sensor. Refer to [SR-25, "Removal and Installation"](#).
3. Remove radiator. Refer to [CO-15, "Removal and Installation"](#).
4. Remove the condenser (if equipped). Refer to [HA-39, "CONDENSER : Removal and Installation"](#).
5. Remove the horns. Refer to [HRN-6, "Removal and Installation"](#).
6. Remove air guides (LH/RH).
7. Remove the hood lock support bolts and hood lock support.
8. Remove the core support lower stay bolts and core support lower stay.
9. Remove the core support lower bolts and core support lower.
10. Remove the core support side member nuts and bolts and remove the core support side member (if necessary).

INSTALLATION

RADIATOR CORE SUPPORT

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

Installation is in the reverse order of removal.

Tighten bolts to specification. Refer to [DLK-164, "Exploded View"](#).

CAUTION:

After installation, perform hood fitting adjustment. Refer to [DLK-157, "HOOD ASSEMBLY : Adjustment"](#).

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FRONT FENDER

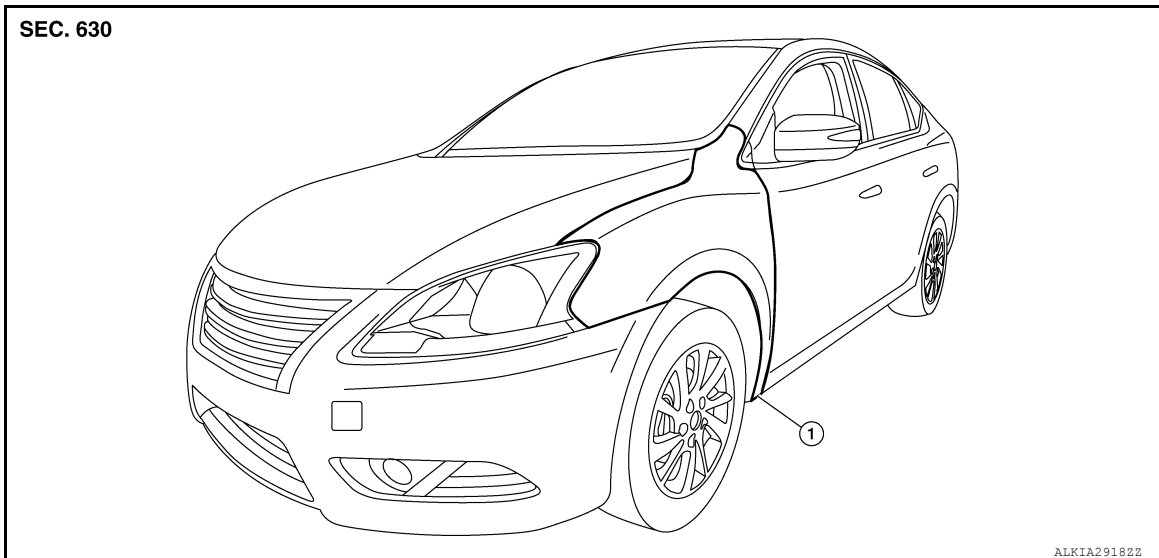
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

FRONT FENDER

Exploded View

INFOID:000000011536553



1. Front fender

Removal and Installation

INFOID:000000011536554

REMOVAL

1. Remove the front combination lamp. Ref to [EXL-120, "Removal and Installation"](#).
2. Remove the front bumper fascia. Refer to [EXT-18, "Removal and Installation"](#).
3. Remove the front fender protector. Refer to [EXT-29, "FENDER PROTECTOR : Removal and Installation - Front Fender Protector"](#).
4. Remove the front fender bolts and the front fender.

CAUTION:

Use shop cloths to protect the body from being damaged during removal and installation.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

After installation, perform fender adjustment procedure. Refer to [DLK-167, "Adjustment"](#).

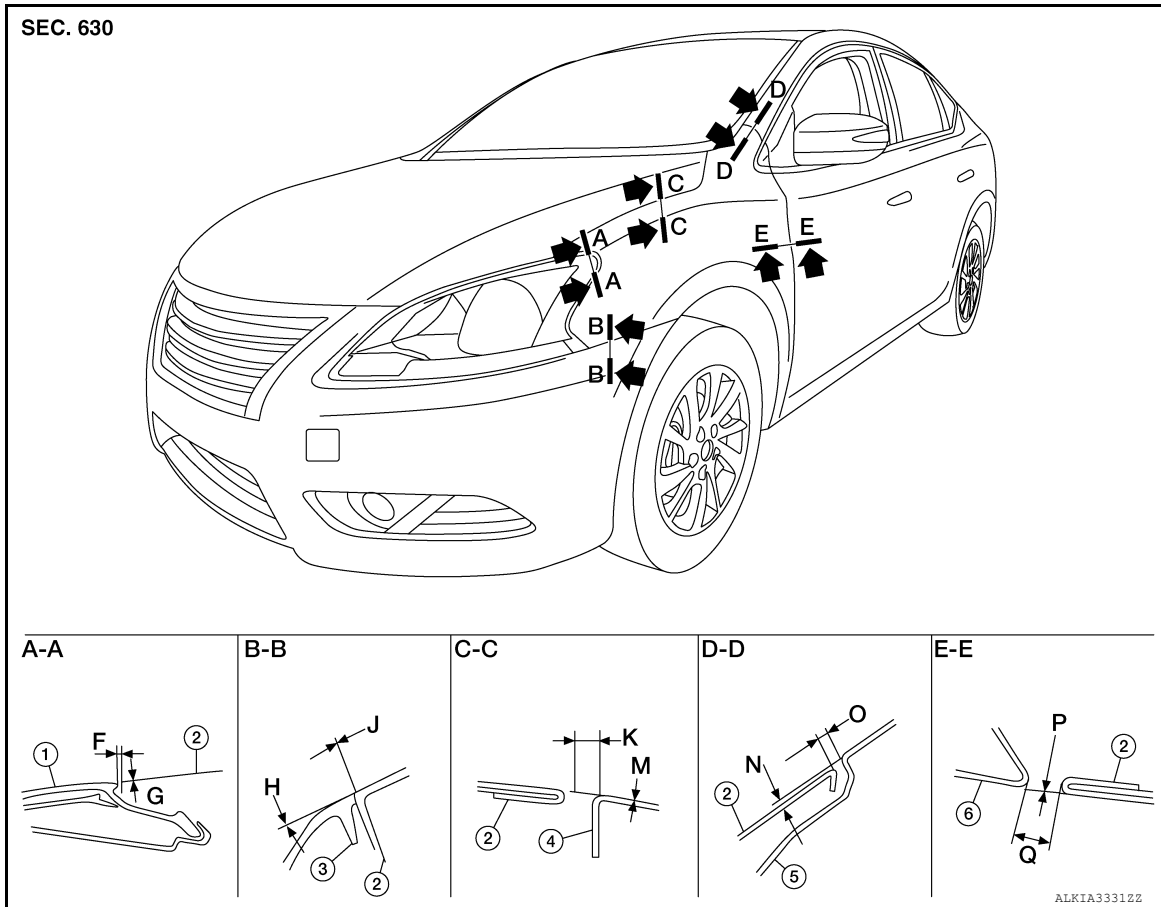
FRONT FENDER

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

Adjustment

INFOID:000000011536555



- 1. Front combination lamp assembly 2. Fender 3. Front bumper fascia
- 4. Hood assembly 5. Body side outer 6. Front door

Check the clearance and the surface height between hood and each part by visual inspection and tactile feel. If the clearance and the surface height are out of specification, adjust them according to the adjustment procedures.

Unit: mm (in)

Section	Item	Measurement	Standard
A – A	F	Clearance	1.5 +1.2, -1.0 (0.06 + 0.05, -0.04)
	G	Surface height	3.9 ± 1.2 (0.15 ± 0.05)
B – B	H	Surface height	0.7 ± 1.0 (0.03 ± 0.04)
	J	Clearance	0.0 ± 1.0 (0.00 ± 0.04)
C – C	K	Clearance	3.7 ± 1.0 (0.15 ± 0.04)
	M	Surface height	0.0 ± 1.0 (0.00 ± 0.04)
D – D	N	Surface height	0.0 ± 1.0 (0.00 ± 0.04)
	O	Clearance	3.0 ± 1.0 (0.12 ± 0.04)
E – E	P	Surface height	—
	Q	Clearance	—

Adjustment

1. Remove front bumper fascia. Refer to [EXT-18, "Removal and Installation"](#).
2. Remove the front fender protector. Refer to [EXT-29, "FENDER PROTECTOR : Removal and Installation - Front Fender Protector"](#).

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FRONT FENDER

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

3. Loosen the front fender bolts.
4. Adjust the clearance (Q) and surface height (P) between the front fender and the front door.
5. Tighten the rear upper and lower front fender bolts.
6. Adjust the clearance (K) and surface height (M) between the front fender and the hood.
7. Adjust the clearance (O) and surface height (N) between the front fender and the body side outer.
8. Tighten the inner front fender bolts.
9. Adjust the clearance (J) and the surface height (H) between the front fender and the front fascia.
10. Tighten the front fender to front fascia and bracket screws.
11. Install front bumper fascia. Refer to [EXT-18, "Removal and Installation"](#).
12. Install front combination lamp. Refer to [EXL-120, "Removal and Installation"](#).
13. Install the front fender protector. Refer to [EXT-29, "FENDER PROTECTOR : Removal and Installation - Front Fender Protector"](#).

CAUTION:

- If the clearance measurements cannot be corrected by adjusting the fender, adjust the following as necessary.
- Hood assembly: Refer to [DLK-157, "HOOD ASSEMBLY : Adjustment"](#).
- Front door: Refer to [DLK-171, "DOOR ASSEMBLY : Adjustment"](#).
- After adjusting, apply touch-up paint (body color) to the head of the front fender bolts.

FRONT DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

FRONT DOOR DOOR ASSEMBLY

DOOR ASSEMBLY : Removal and Installation

INFOID:000000011536556

CAUTION:

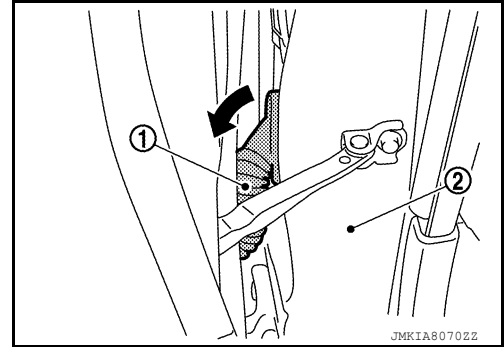
- Use two people when removing or installing the front door assembly due to its heavy weight.
- When removing and installing front door assembly, support front door using a suitable tool.
- Do not use air tools or electric tools for servicing.
- Before servicing, turn ignition switch OFF, disconnect both battery terminals and wait at least three minutes.

NOTE:

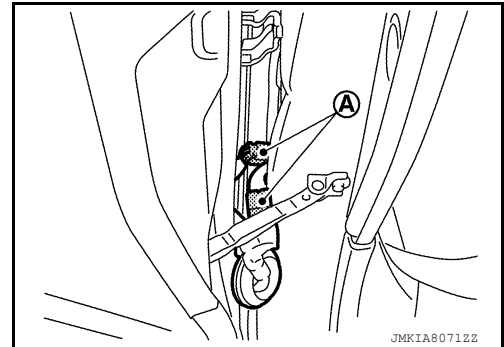
LH side shown; RH side similar.

REMOVAL

1. Disconnect the battery negative and positive terminals and wait at least three minutes, if equipped with the side air bag (satellite) sensor. Refer to [PG-74. "Removal and Installation \(Battery\)"](#).
2. Remove front door assembly harness grommet LH (1) then pull out door harness from body (2).



3. Disconnect the harness connectors (A) from the front door assembly harness.



4. Remove check link bolt (body side).

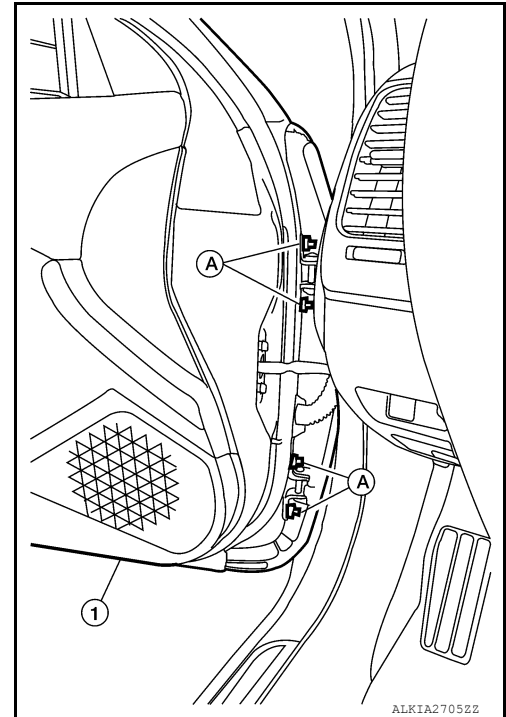
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FRONT DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

5. Remove front door assembly hinge nuts (A) (door side) and the door assembly (1).



INSTALLATION

Installation is in the reverse order of removal.
Tighten door hinge nuts to specified torque.

CAUTION:

- After installation, check front door open/close, lock/unlock operation.
- After installation, perform the front door adjustment procedure. Refer to [DLK-171, "DOOR ASSEMBLY : Adjustment"](#).

NOTE:

When main power window and door lock/unlock switch is removed or replaced, it is necessary to perform the initialization procedure. Refer to [PWC-28, "Work Procedure"](#).

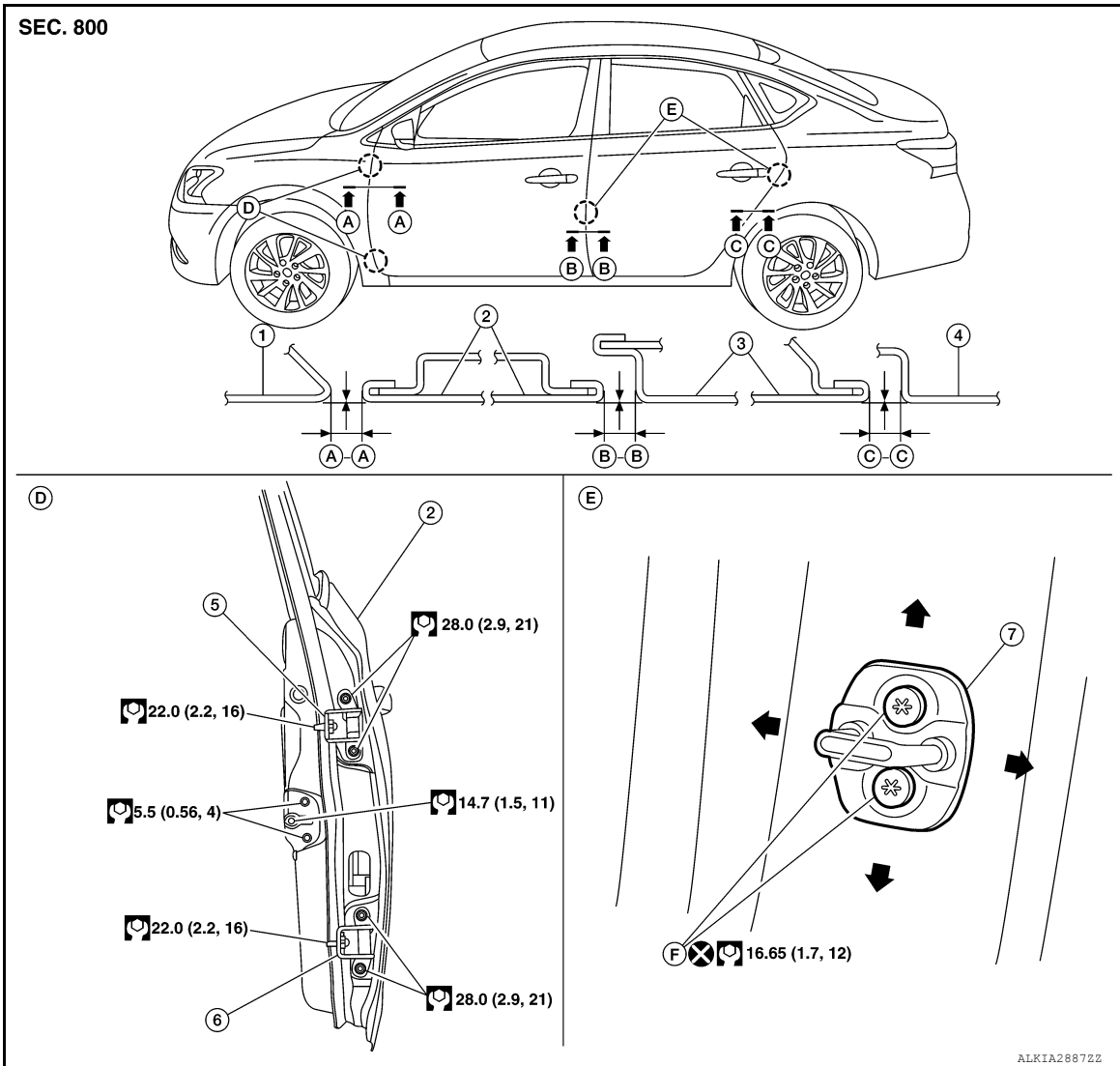
FRONT DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

DOOR ASSEMBLY : Adjustment

INFOID:000000011536557



- 1. Front fender
- 2. Front door assembly
- 3. Rear door assembly
- 4. Body side outer
- 5. Front door upper hinge
- 6. Front door lower hinge
- 7. Front door striker
- F. Front door striker bolts

Check the clearance and surface height between front door and each part by visual inspection and tactile feel. If the clearance and the surface height are out of specification, adjust them according to the adjustment procedure.

Unit: mm (in)

Section	Item	Measurement	Standard
A - A	G	Clearance	4.0 ± 1.0 (0.16 ± 0.04)
	H	Surface height	0.0 ± 1.0 (0.0 ± 0.04)
B - B	H	Clearance	4.2 ± 1.0 (0.17 ± 0.04)
	J	Surface height	0.0 ± 1.0 (0.0 ± 0.04)
C - C	J	Clearance	4.0 ± 1.0 (0.16 ± 0.04)
	K	Surface height	0.0 ± 1.0 (0.0 ± 0.04)

LONGITUDINAL CLEARANCE

1. Remove the front fender. Refer to [DLK-166. "Removal and Installation"](#).

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FRONT DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

2. Loosen the front door hinge to body bolts. Move the door forward or backward as necessary until within specifications provided.
3. Tighten the hinge to body bolts to specified torque.

Front door hinge bolts

22.0 N·m (2.2 kg-m, 16 ft-lb)

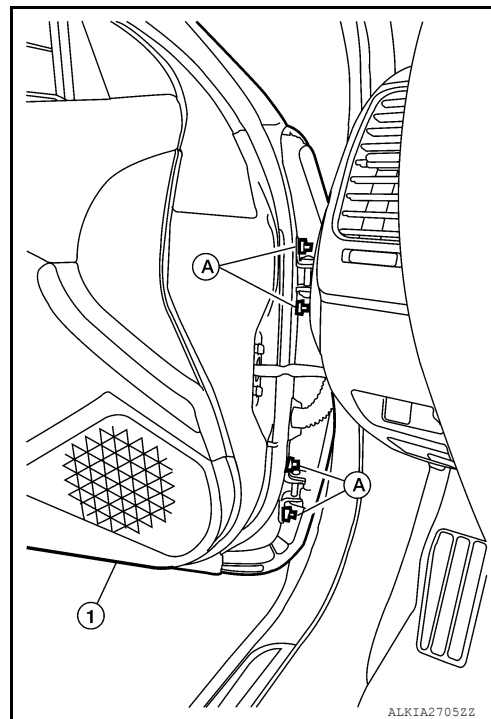
4. Install the front fender. Refer to [DLK-166, "Removal and Installation"](#).

SURFACE HEIGHT ADJUSTMENT

1. Loosen the front door hinge nuts (A).
2. Move the top and/or bottom of the door (1) in or out as necessary until it is within specifications provided.
3. Tighten the front door hinge nuts to specified torque.

Front door hinge nuts

28.0 N·m (2.9 kg-m, 21 ft-lb)



CAUTION:

- Check front door hinge rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.
- After adjusting, apply touch-up paint (body color) to the head of front door hinge bolts and nuts.
- If the clearance measurements cannot be corrected by adjusting the front door assembly, adjust the following as necessary.
 - Front fender: Refer to [DLK-167, "Adjustment"](#).
 - Rear door: Refer to [DLK-176, "DOOR ASSEMBLY : Adjustment"](#).

DOOR STRIKER ADJUSTMENT

Adjust front door assembly striker so that it becomes parallel with door lock insertion direction.

DOOR HINGE

DOOR HINGE : Removal and Installation

INFOID:000000011536558

REMOVAL

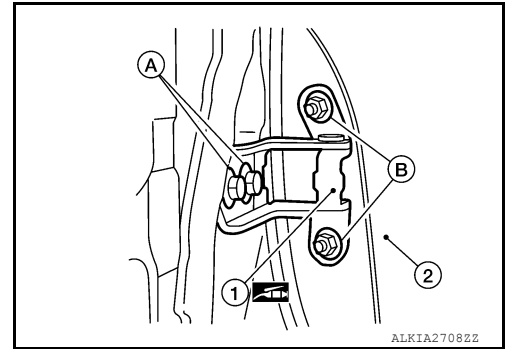
1. Remove front door fender. Refer to [DLK-166, "Removal and Installation"](#).
2. Remove front door assembly (2). Refer to [DLK-169, "DOOR ASSEMBLY : Removal and Installation"](#).
3. Remove bolt (A) and door hinge (1).

FRONT DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

4. Remove door hinge bolts (B) and remove hinge (1).



INSTALLATION

Installation is in the reverse order of removal.

Tighten front door hinge bolts to specified torque. [DLK-171, "DOOR ASSEMBLY : Adjustment"](#)

CAUTION:

- Apply anticorrosive agent onto the front door hinge mating surface.
- After installation, check front door open/close, lock/unlock operation.
- After installation, perform the front door adjustment procedure. Refer to [DLK-171, "DOOR ASSEMBLY : Adjustment"](#).

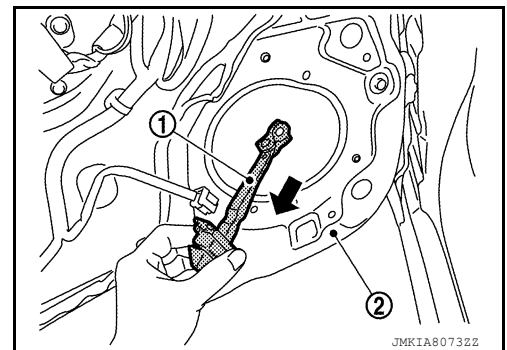
DOOR CHECK LINK

DOOR CHECK LINK : Removal and Installation

INFOID:000000011536559

REMOVAL

1. Fully close the front door glass.
2. Remove front door speaker. Refer to [AV-56, "Removal and Installation"](#) (BASE AUDIO), [AV-118, "Removal and Installation"](#) (DISPLAY AUDIO SYSTEM), [AV-320, "Removal and Installation"](#) (NAVIGATION WITH BOSE) and [AV-211, "Removal and Installation"](#) (NAVIGATION WITHOUT BOSE).
3. Remove door check link bolt from body.
4. Remove door check link bolts on door panel.
5. Remove door check link (1) through the hole in door panel (2).



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

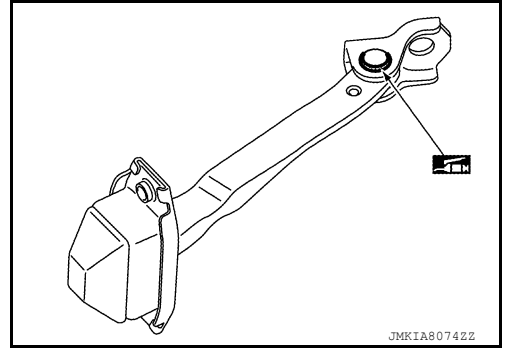
- After installation, check front door open/close, lock/unlock operation.
- Check front door check link rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.

FRONT DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

: Grease



REAR DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

REAR DOOR DOOR ASSEMBLY

DOOR ASSEMBLY : Removal and Installation

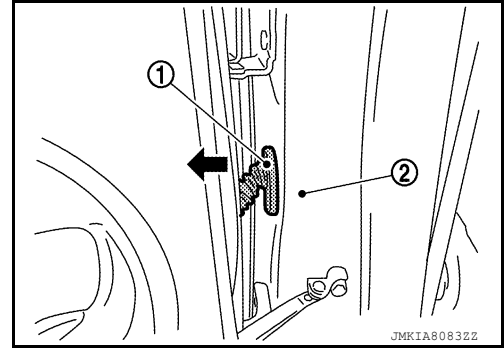
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CAUTION:

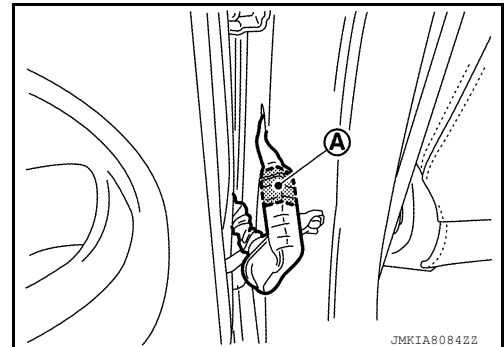
- Use two people when removing or installing the rear door assembly due to its heavy weight.
- When removing and installing rear door assembly, support rear door with a suitable tool.

REMOVAL

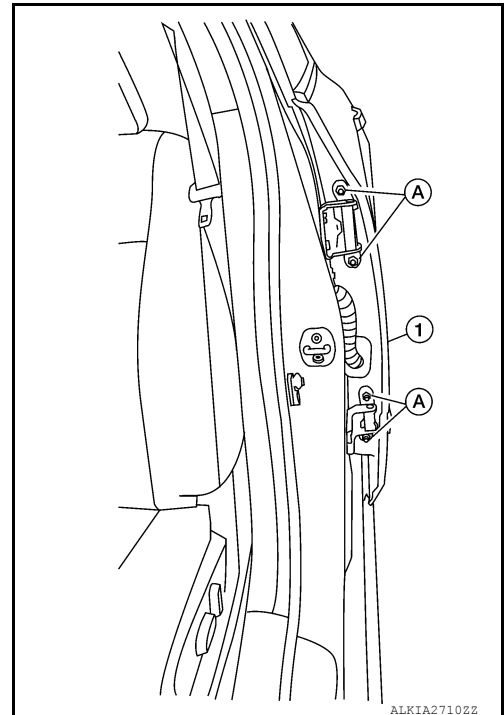
1. Remove rear door assembly harness grommet (LH) (1) then pull out door harness from body (2).



2. Disconnect the harness connector (A) from the door harness.



3. Remove the check link bolt from the body.
4. Remove rear door assembly hinge nuts (A) (door side) and the door assembly (1).



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REAR DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

INSTALLATION

Installation is in the reverse order of removal.
Tighten rear door hinge nuts (door side) to specified torque.

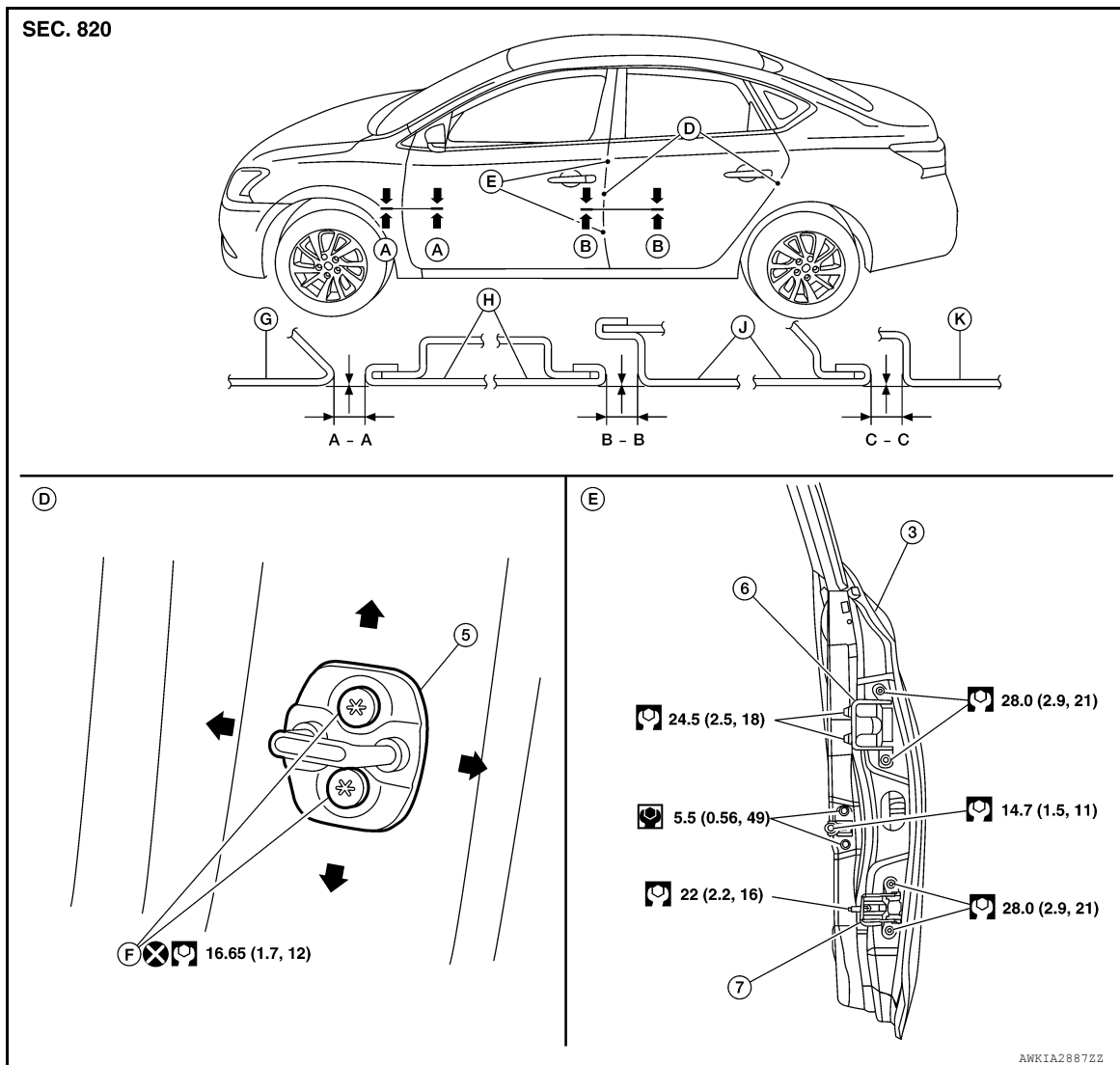
CAUTION:

- After installation, check rear door open/close, lock/unlock operation.
- After installation, perform the rear door adjustment procedure. Refer to [DLK-176, "DOOR ASSEMBLY : Adjustment"](#).

DOOR ASSEMBLY : Adjustment

INFOID:000000011536561

ADJUSTMENT



- | | | |
|--------------------------|-----------------------------|--------------------------|
| 1. Front fender | 2. Door assembly | 3. Rear door assembly |
| 4. Body side outer | 5. Rear door striker | 6. Rear door upper hinge |
| 7. Rear door lower hinge | F. Rear door striker screws | |

Check the clearance and surface height between rear door and each part by visual inspection and tactile feel. If the clearance and the surface height are out of specification, adjust them according to the adjustment procedure.

REAR DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

Unit: mm (in)

Section	Item	Measurement	Standard
A – A	G	Clearance	4.0 ± 1.0 (0.16 ± 0.04)
	H	Surface height	0.0 ± 1.0 (0.0 ± 0.04)
B – B	H	Clearance	4.2 ± 1.0 (0.17 ± 0.04)
	J	Surface height	0.0 ± 1.0 (0.0 ± 0.04)
C – C	J	Clearance	4.0 ± 1.0 (0.16 ± 0.04)
	K	Surface height	0.0 ± 1.0 (0.0 ± 0.04)

LONGITUDINAL CLEARANCE

1. Remove the center pillar upper finisher. Refer to [INT-28, "CENTER PILLAR UPPER FINISHER : Removal and Installation"](#).
2. Loosen the rear door upper hinge nuts.
3. Loosen the rear door lower hinge bolts.
4. Move the rear door forward or backward as necessary until within specifications provided.
5. Tighten the lower hinge bolts to specification.

Rear door lower hinge bolts

22 N·m (2.2 kg-m, 16 ft-lb)

6. Tighten the upper hinge nuts to specification.

Rear door upper hinge nuts

24.5 N·m (2.5 kg-m, 18 ft-lb)

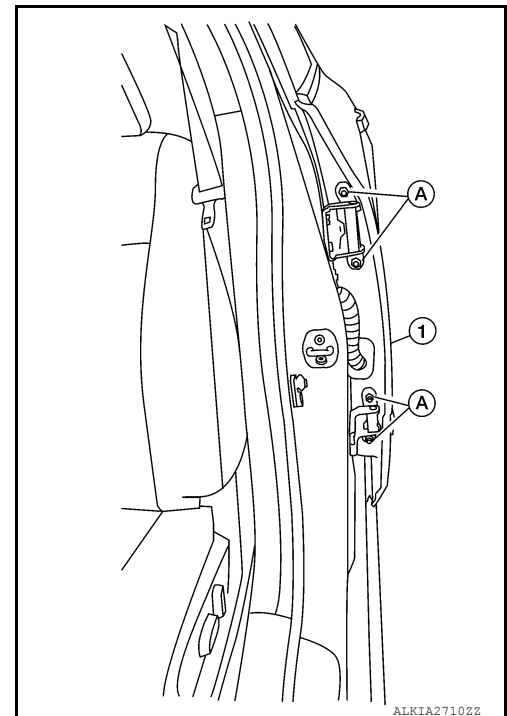
7. Install the center pillar upper finisher. Refer to [INT-28, "CENTER PILLAR UPPER FINISHER : Removal and Installation"](#).

SURFACE HEIGHT ADJUSTMENT

1. Loosen the rear door hinge nuts (door side) (A).
2. Move the top and/or the bottom of the rear door (1) in or out as necessary until it is within specifications provided.
3. Tighten the rear door hinge nuts (door side) (A) to specification.

Rear door nuts

28.0 N·m (2.9 kg-m, 21 ft-lb)



CAUTION:

- Check rear door hinge rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.
- After adjusting, apply touch-up paint (body color) to the head of rear door assembly hinge bolts and nuts.

REAR DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

- If the clearance measurements cannot be corrected by adjusting the rear door, adjust the front door. Refer to [DLK-171, "DOOR ASSEMBLY : Adjustment"](#).

DOOR STRIKER ADJUSTMENT

Adjust rear door assembly striker so that it becomes parallel with door lock insertion direction.

DOOR HINGE

DOOR HINGE : Removal and Installation

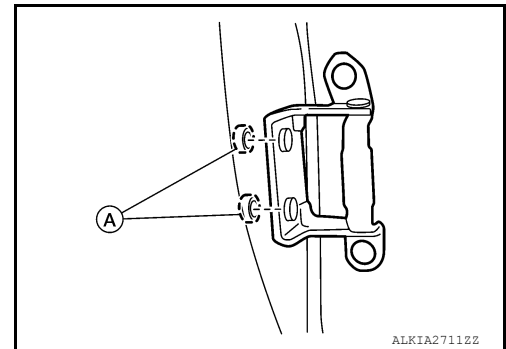
INFOID:000000011536562

CAUTION:

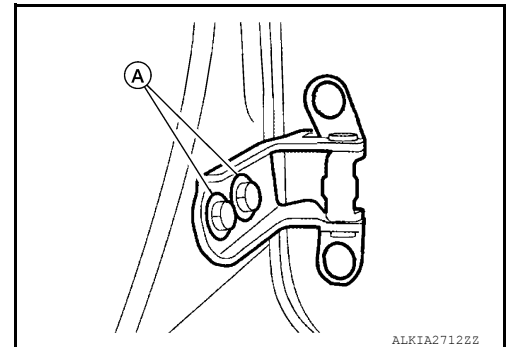
- Use two people when removing or installing rear door assembly due to its heavy weight.
- When removing and installing rear door assembly, support door using a suitable tool.

REMOVAL

1. Remove rear door assembly. Refer to [DLK-175, "DOOR ASSEMBLY : Removal and Installation"](#).
2. Remove center pillar upper finisher (upper hinge only). Refer to [INT-28, "CENTER PILLAR UPPER FINISHER : Removal and Installation"](#).
3. Remove rear door assembly upper hinge nuts (A) and remove.



4. Remove rear door assembly lower hinge bolts (A) and remove.



INSTALLATION

Installation is in the reverse order of removal.

Tighten rear door assembly hinge nuts and bolts to specified torque. Refer to [DLK-176, "DOOR ASSEMBLY : Adjustment"](#)

CAUTION:

- Apply anticorrosive agent onto the hinge mating surface.
- After installation, check rear door open/close, lock/unlock operation.
- After installation, perform the rear door adjustment procedure. Refer to [DLK-176, "DOOR ASSEMBLY : Adjustment"](#).

DOOR CHECK LINK

DOOR CHECK LINK : Removal and Installation

INFOID:000000011536563

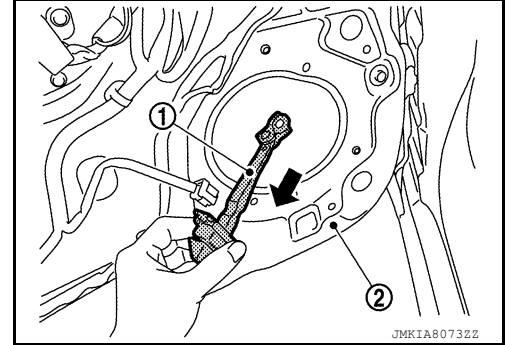
REMOVAL

REAR DOOR

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

1. Fully close the rear door glass.
2. Remove rear door speaker. Refer to [AV-57, "Removal and Installation"](#) (BASE AUDIO), [AV-118, "Removal and Installation"](#) (DISPLAY AUDIO SYSTEM), [AV-321, "Removal and Installation"](#) (NAVIGATION WITH BOSE) and [AV-212, "Removal and Installation"](#) (NAVIGATION WITHOUT BOSE).
3. Remove door check link bolt from body.
4. Remove door check link bolts on door panel.
5. Remove door check link (1) through the hole in door panel (2).

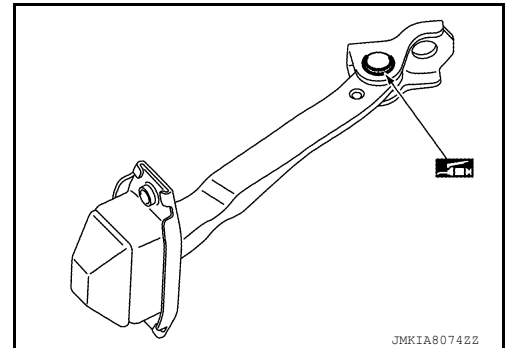


INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- After installation, check rear door open/close, lock/unlock operation.
- Check rear door check link rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.



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DOOR HANDLE

< REMOVAL AND INSTALLATION >

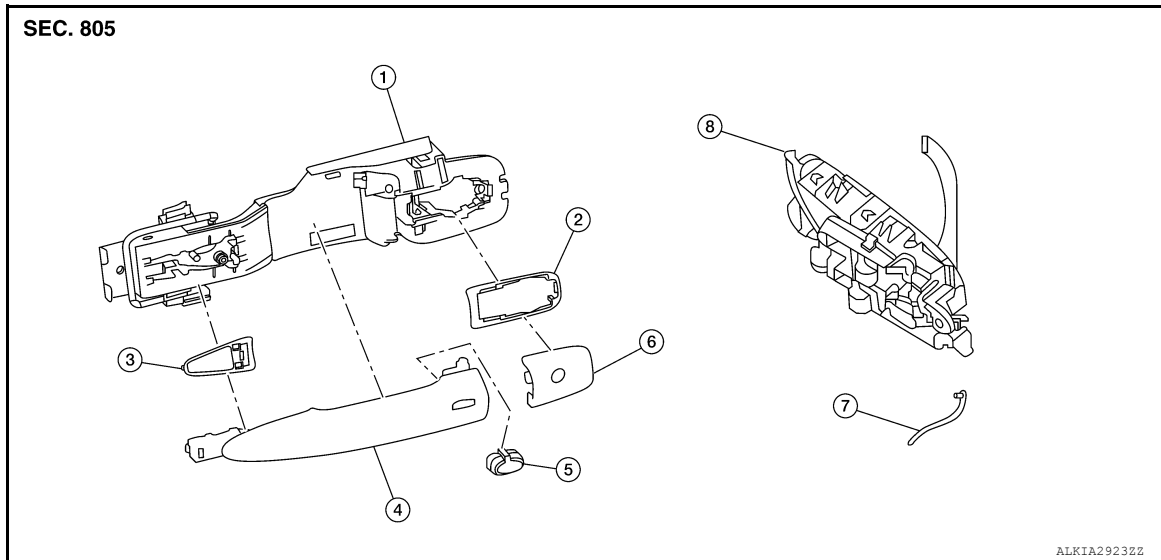
[WITH INTELLIGENT KEY SYSTEM]

DOOR HANDLE

FRONT DOOR HANDLE

FRONT DOOR HANDLE : Exploded View

INFOID:000000011536564



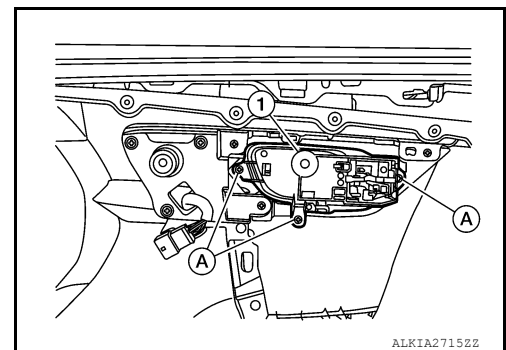
- | | | |
|---------------------------|---------------------------|------------------------------|
| 1. Outside handle bracket | 2. Rear gasket | 3. Front gasket |
| 4. Outside handle | 5. Door request switch | 6. Outside handle escutcheon |
| 7. Door key cylinder rod | 8. Inside handle assembly | |

FRONT DOOR HANDLE : Removal and Installation - Inside Handle

INFOID:000000011536565

REMOVAL

1. Remove front door finisher. Refer to [INT-15. "Removal and Installation"](#).
2. Remove screws (A) and inside handle assembly (1).



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Check front door lock cables are properly engaged to inside handle.
- After installation, check front door open/close, lock/unlock operation.

FRONT DOOR HANDLE : Removal and Installation - Outside Handle

INFOID:000000011536566

REMOVAL

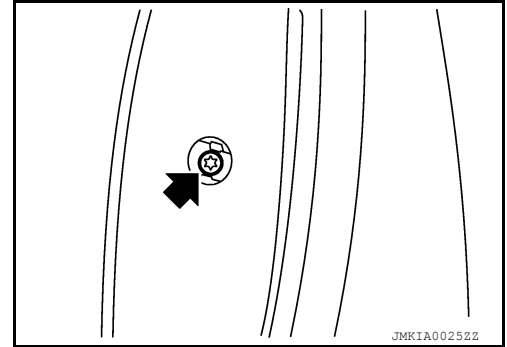
1. Fully close front door glass.
2. Remove front door finisher. Refer to [INT-15. "Removal and Installation"](#).
3. Remove front door vapor barrier.

DOOR HANDLE

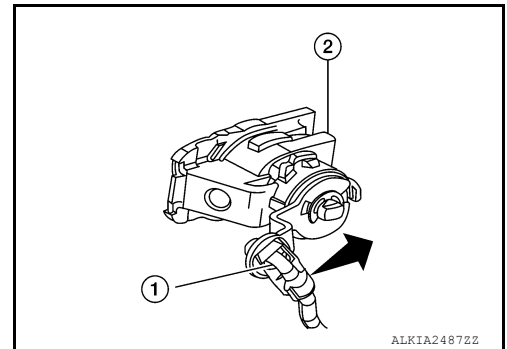
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

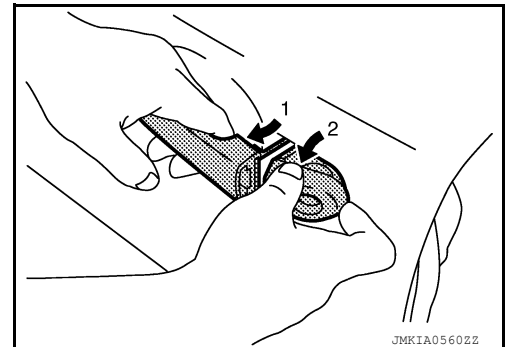
4. Remove front door glass channel rear.
5. Disconnect the harness connectors from the door antenna and door request switch and then remove harness clamp on outside handle bracket.
6. Remove door side grommet, and loosen screw (←) that retains the front door outside handle bracket.



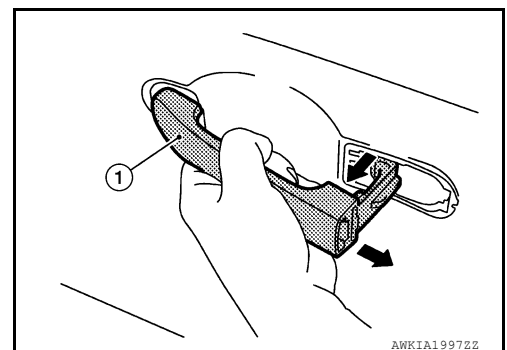
7. Reach in to separate door key cylinder rod (LH side) (1) from door key cylinder assembly (LH side) (2).



8. While pulling (1) outside handle, remove (2) door key cylinder assembly (LH side) or outside handle escutcheon (RH side).



9. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.



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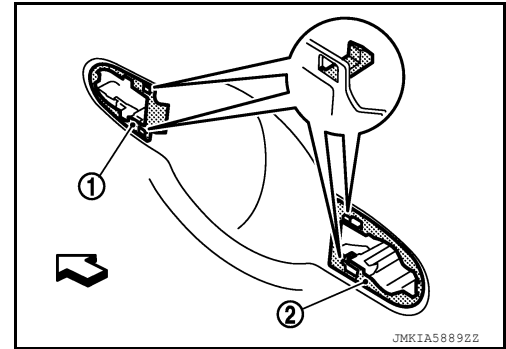
DOOR HANDLE

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

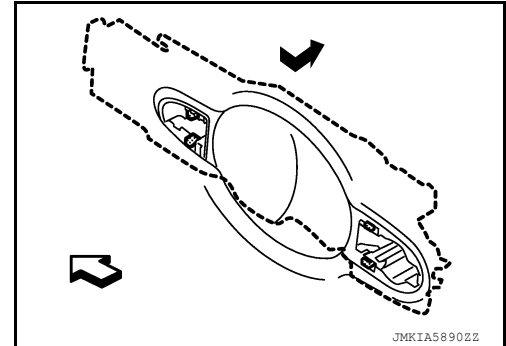
10. Remove front gasket (1) and rear gasket (2).

⇐: Front

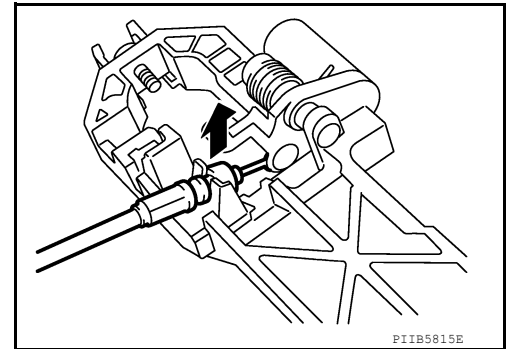


11. Slide outside handle bracket toward rear of vehicle to remove.

⇐: Front



12. Disconnect the outside handle cable from the outside handle bracket connection.



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- When installing door key cylinder rod on the (LH) front door, be sure to rotate door key cylinder rod holder until a click is felt.
- Check front door lock cable is properly engaged to outside handle bracket.
- After installation, check front door open/close, lock/unlock operation.

REAR DOOR HANDLE

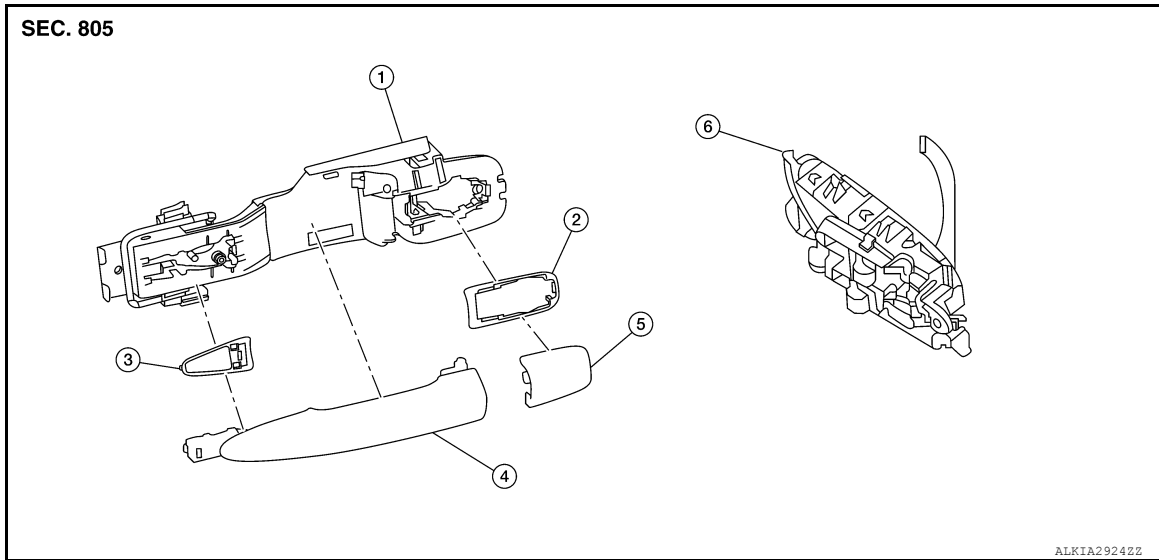
DOOR HANDLE

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

REAR DOOR HANDLE : Exploded View

INFOID:000000011536567



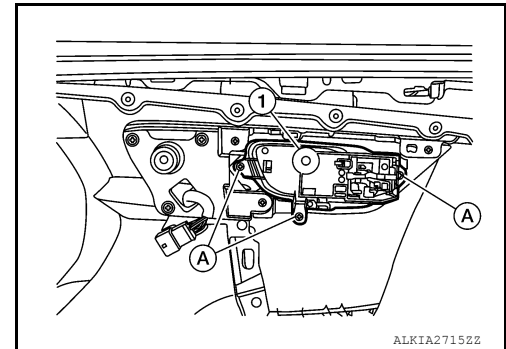
- | | | |
|---------------------------|------------------------------|---------------------------|
| 1. Outside handle bracket | 2. Rear gasket | 3. Front gasket |
| 4. Outside handle | 5. Outside handle escutcheon | 6. Inside handle assembly |

REAR DOOR HANDLE : Removal and Installation - Inside Handle

INFOID:000000011536568

REMOVAL

1. Remove rear door finisher. Refer to [INT-19, "Removal and Installation"](#).
2. Remove screws (A) and inside handle (1).



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Check rear door lock cables are properly engaged to inside handle.
- After installation, check rear door open/close, lock/unlock operation.

REAR DOOR HANDLE : Removal and Installation - Outside Handle

INFOID:000000011536569

REMOVAL

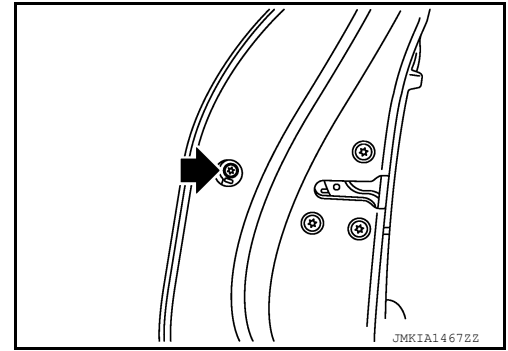
1. Fully close rear door glass.
2. Remove rear door finisher. Refer to [INT-19, "Removal and Installation"](#).
3. Remove rear door vapor barrier.

DOOR HANDLE

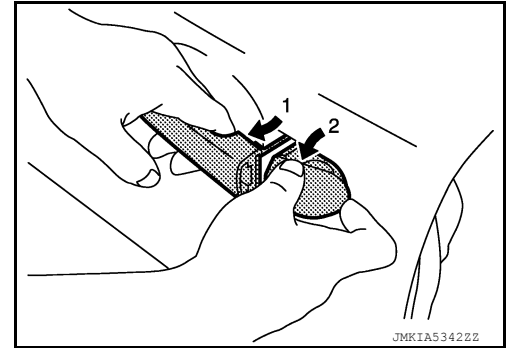
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

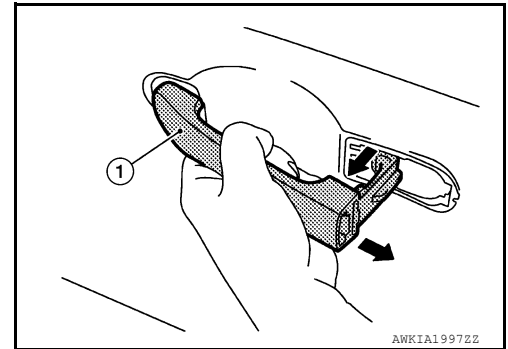
4. Remove door side grommet, and loosen screw (←) that retains the rear door outside handle bracket.



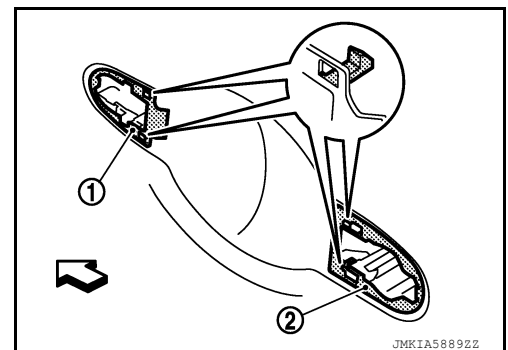
5. While pulling (1) outside handle, remove (2) outside handle escutcheon.



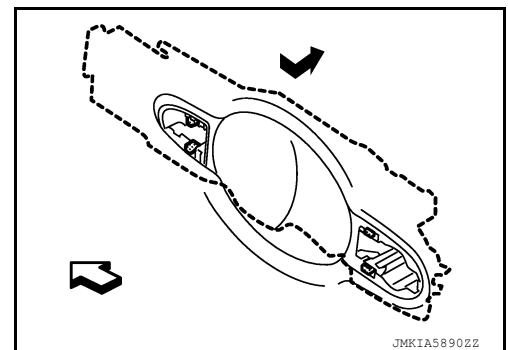
6. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.



7. Remove front gasket (1) and rear gasket (2).
←: Front



8. Slide outside handle bracket toward rear of vehicle to remove.
←: Front

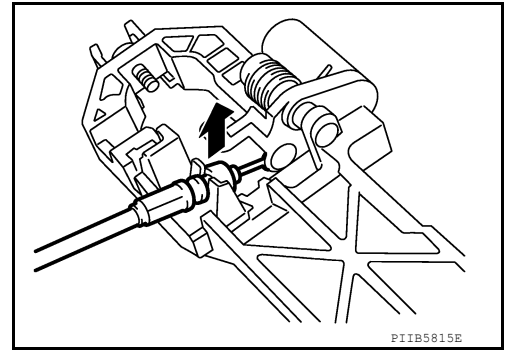


DOOR HANDLE

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

9. Remove clip and disconnect the outside handle cable from the outside handle bracket.



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Check rear door lock cable is properly engaged to outside handle bracket.
- After installation, check rear door open/close, lock/unlock operation.

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DOOR LOCK

< REMOVAL AND INSTALLATION >

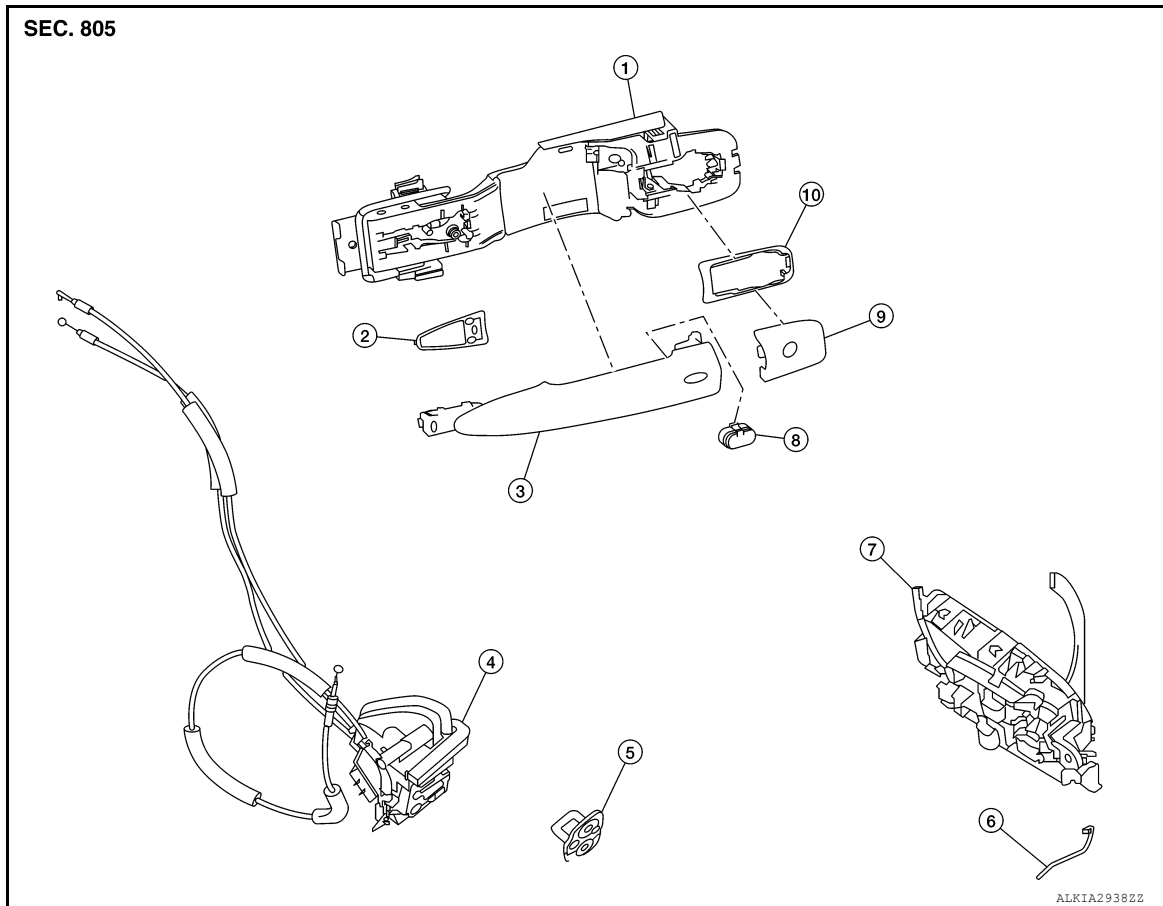
[WITH INTELLIGENT KEY SYSTEM]

DOOR LOCK

FRONT DOOR LOCK

FRONT DOOR LOCK : Exploded View

INFOID:000000011536570



- | | | |
|-----------------------------|------------------------|--|
| 1. Outside handle bracket | 2. Front gasket | 3. Front door handle |
| 4. Front door lock assembly | 5. Door striker | 6. Door key cylinder rod (driver side) |
| 7. Inside handle | 8. Door request switch | 9. Outside handle escutcheon |
| 10. Rear gasket | | |

FRONT DOOR LOCK : Removal and Installation

INFOID:000000011536571

CAUTION:

Before servicing, turn ignition switch OFF, disconnect both battery terminals and wait at least three minutes.

REMOVAL

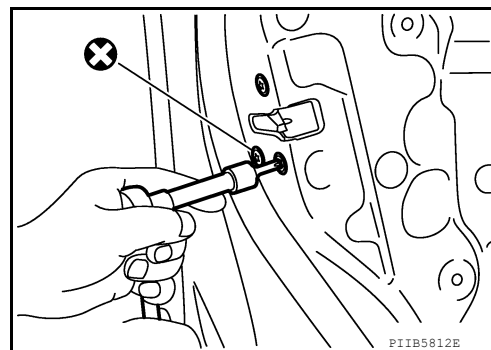
1. Remove the front door outside handle. Refer to [DLK-180, "FRONT DOOR HANDLE : Removal and Installation - Outside Handle"](#).
2. Remove the rear glass run.
3. Disconnect the harness connector from the front door lock actuator.

DOOR LOCK

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

4. Remove screws and the front door lock assembly.



5. Disconnect door key cylinder rod (LH only) from door key cylinder (LH only).
6. Disconnect door lock cables from inside handle.

INSTALLATION

Installation is in the reverse order of removal.
Tighten front door lock screws to specified torque.

Front door lock screws: 5.8 Nm (0.59 kg-m, 51 in-lb)

CAUTION:

- Do not reuse front door lock assembly screws. Always replace screws with new ones when removed.
- Check front door lock cables are properly engaged to inside handle and outside handle bracket.
- When installing door key cylinder rod on the (LH) front door, be sure to rotate door key cylinder rod holder until a click is felt.
- After installation, check front door open/close, lock/unlock operation.
- Check front door lock assembly for poor lubrication. If necessary apply a suitable multi-purpose grease.

REAR DOOR LOCK

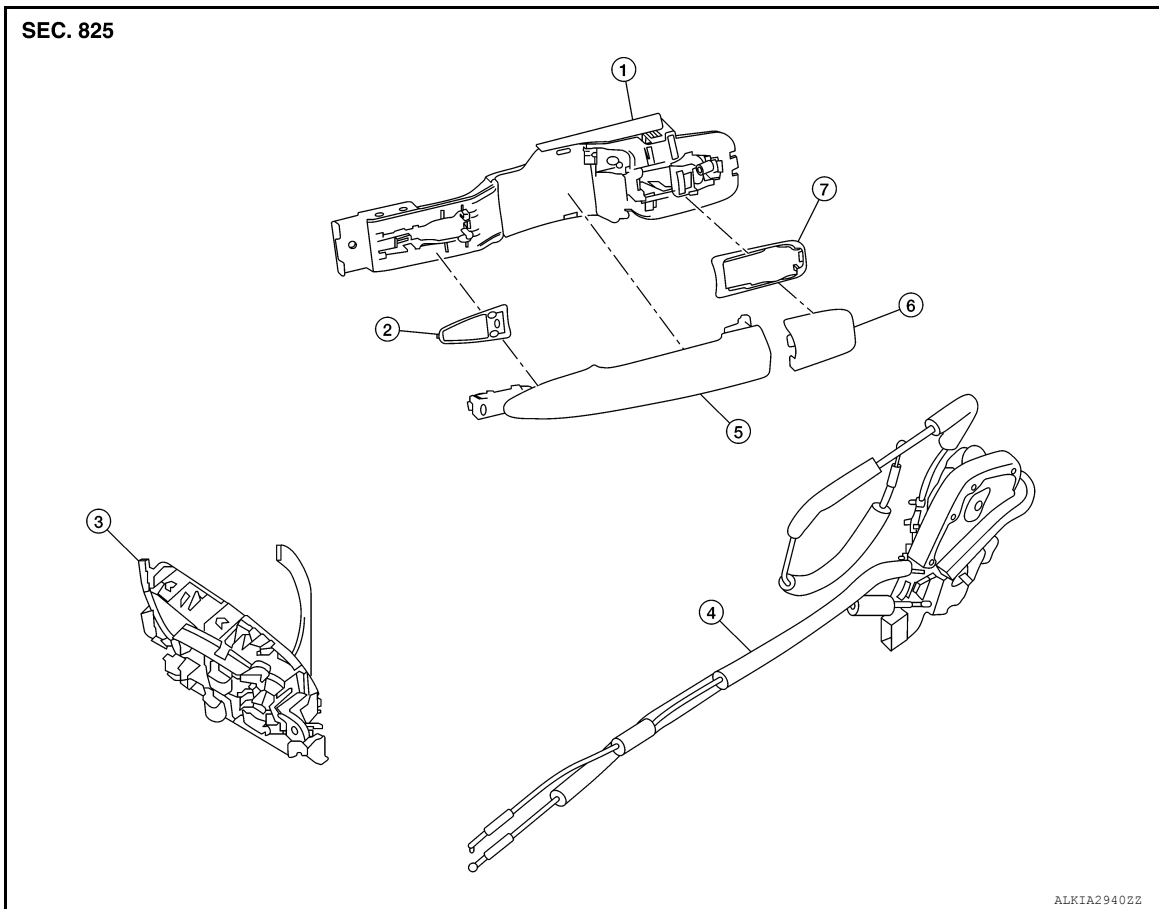
DOOR LOCK

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

REAR DOOR LOCK : Exploded View

INFOID:000000011536572



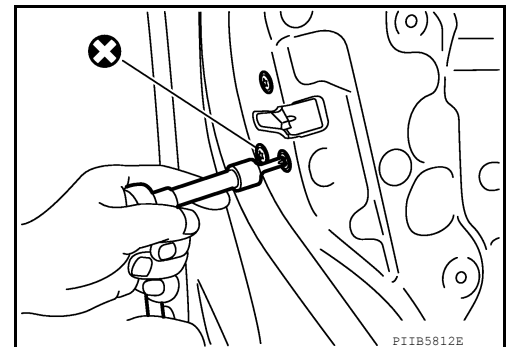
- | | | |
|---------------------------|-------------------|------------------------------|
| 1. Outside handle bracket | 2. Front gasket | 3. Inside handle assembly |
| 4. Door lock assembly | 5. Outside handle | 6. Outside handle escutcheon |
| 7. Rear gasket | | |

REAR DOOR LOCK : Removal and Installation

INFOID:000000011536573

REMOVAL

1. Remove the rear door outside handle. Refer to [DLK-183, "REAR DOOR HANDLE : Removal and Installation - Outside Handle"](#).
2. Disconnect the harness connector from the rear door lock actuator.
3. Remove the screws and the rear door lock assembly.



INSTALLATION

Installation is in the reverse order of removal.
Tighten rear door lock screws to specified torque.

DOOR LOCK

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

Rear door lock screws: 5.8 Nm (0.59 kg-m, 51 in-lb)

CAUTION:

- Do not reuse rear door lock assembly screws. Always replace screws with new ones when removed.
- Check rear door lock cables are properly engaged to inside handle and outside handle bracket.
- After installation, check rear door open/close, lock/unlock operation.
- Check rear door lock assembly for poor lubrication. If necessary apply a suitable multi-purpose grease.

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TRUNK LID

< REMOVAL AND INSTALLATION >

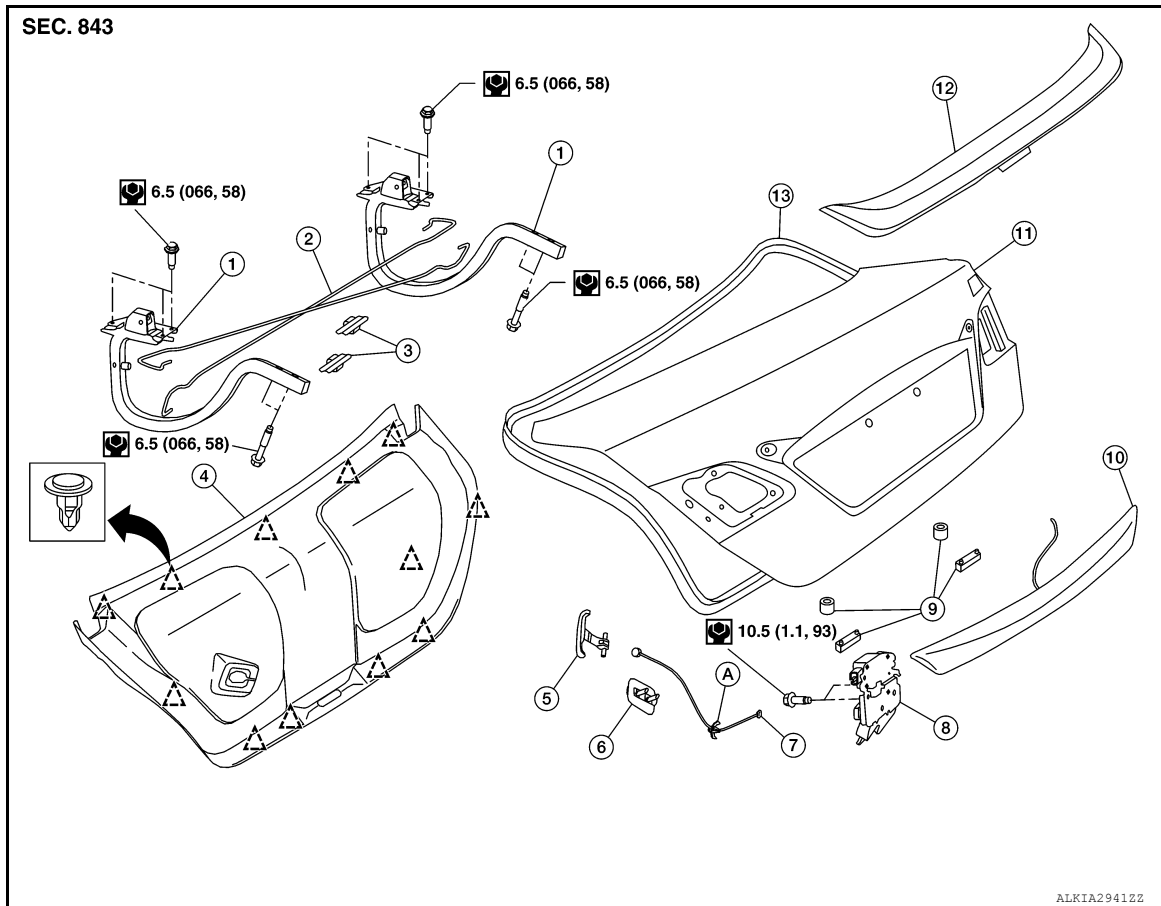
[WITH INTELLIGENT KEY SYSTEM]

TRUNK LID

TRUNK LID ASSEMBLY

TRUNK LID ASSEMBLY : Exploded View

INFOID:000000011536574



- | | | |
|-------------------------------------|-----------------------------|----------------------------------|
| 1. Trunk lid hinge LH/RH | 2. Torsion bar LH/RH | 3. Torsion bar clips |
| 4. Trunk lid finisher (if equipped) | 5. Emergency release handle | 6. Emergency release handle clip |
| 7. Emergency release handle cable | 8. Trunk lid lock | 9. Trunk lid bumpers |
| 10. License lamp finisher | 11. Trunk lid | 12. Rear spoiler (if equipped) |
| 13. Weatherstrip | A. Clip | △ Clip |

TRUNK LID ASSEMBLY : Removal and Installation

INFOID:000000011536575

CAUTION:

- Use two people when removing or installing trunk lid assembly due to its heavy weight.
- Use protective tape or shop cloths to protect surrounding components from damage during removal and installation of trunk lid assembly.

REMOVAL

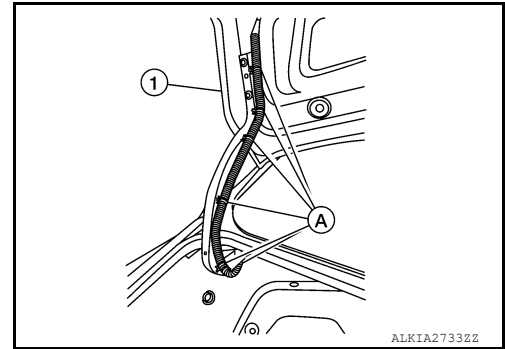
1. Remove trunk lid finisher (if equipped). Refer to [INT-45, "Removal and Installation"](#).

TRUNK LID

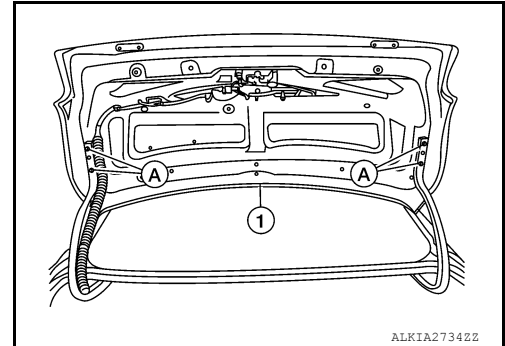
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

2. Disconnect the harness connectors in the trunk lid assembly (1) and remove the harness clips (A) then pull out harness from the trunk lid assembly (1).



3. Remove the bolts (A) and remove the trunk lid assembly (1).



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

After installation, perform the trunk lid assembly adjustment procedure. Refer to [DLK-192, "TRUNK LID ASSEMBLY : Adjustment"](#).

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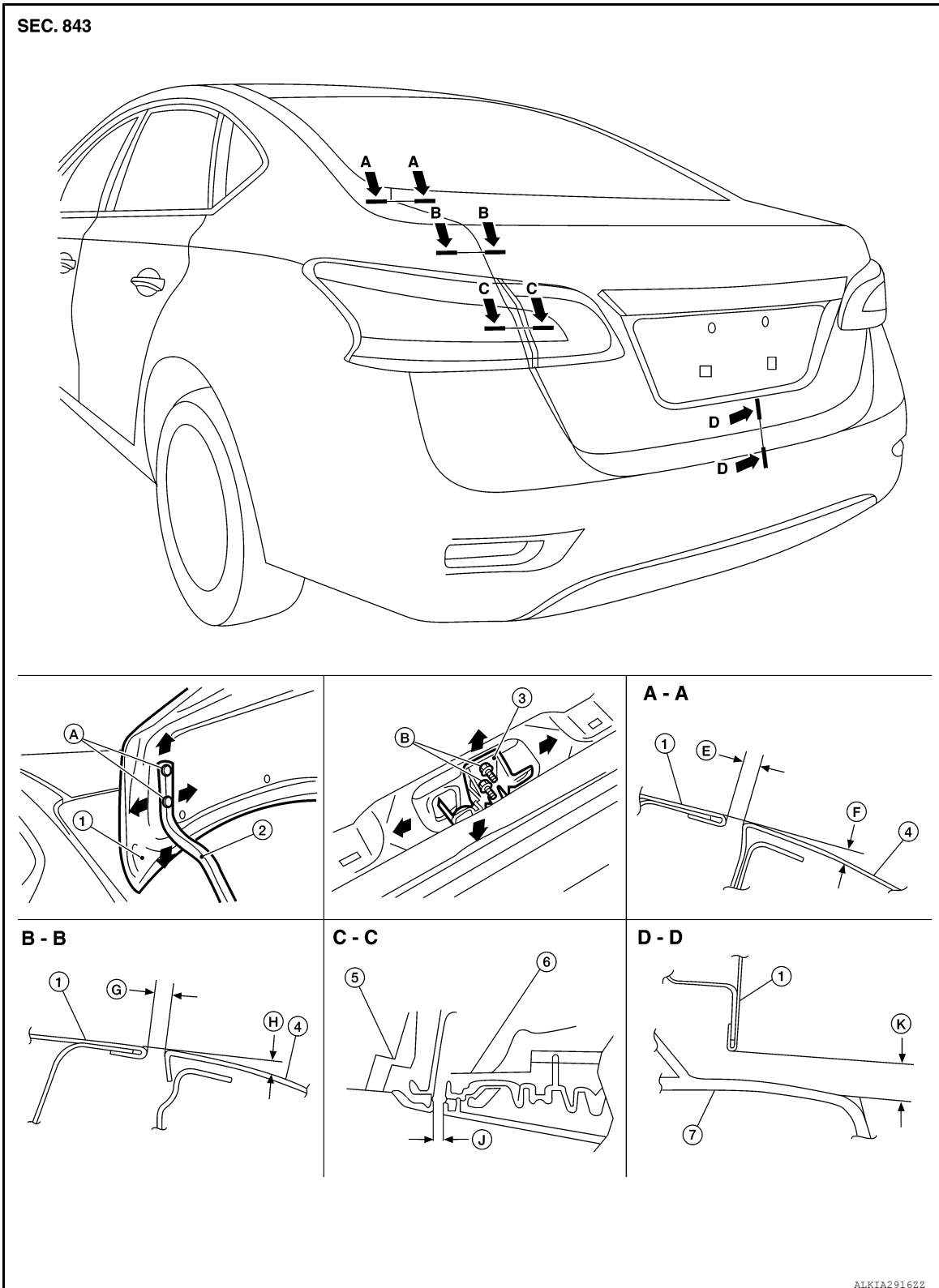
TRUNK LID

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

TRUNK LID ASSEMBLY : Adjustment

INFOID:000000011536576



TRUNK LID

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

Check the clearance and the surface height between trunk lid and each part by visual inspection and tactile feel.

If the clearance and the surface height are out of specification, adjust them according to the adjustment procedures.

Unit: mm (in)

Section	Item	Measurement	Standard	Parallelism (MAX)	Right/Left Difference (MAX)
A – A	E	Clearance	3.5 ±1.0 (0.14 ±0.04)	1.5 (0.06)	1.5 (0.06)
	F	Surface height	1.0 ±1.0 (0.04 ±0.04)	1.5 (0.06)	1.5 (0.06)
B – B	G	Clearance	3.5 ±1.0 (0.14 ±0.04)	1.5 (0.06)	1.5 (0.06)
	H	Surface height	1.0 ±1.0 (0.04 ±0.04)	1.5 (0.06)	1.5 (0.06)
C – C	J	Clearance	4.3 ±1.9 (0.17 ±0.07)	—	2.0 (0.08)
D – D	K	Clearance	7.0 ±2.0 (0.28 ±0.08)	—	—

LONGITUDINAL CLEARANCE

Trunk Lid Removed From Hinge

1. Loosen the trunk lid to hinge bolts.
2. Move the trunk lid so that the clearance measurements are within specifications provided.
3. Tighten the trunk lid to hinge bolts.

Trunk Lid Hinge Removed From Vehicle

1. Remove the rear parcel shelf finisher. Refer to [INT-33. "Removal and Installation"](#).
2. Loosen the hinge to parcel shelf bolts.
3. Move the trunk lid so that the clearance measurements are within specifications provided.
4. Tighten the hinge to parcel shelf bolts.
5. Install the rear parcel shelf finisher. Refer to [INT-33. "Removal and Installation"](#).

SURFACE HEIGHT ADJUSTMENT

1. Loosen the bumper rubber.
2. Loosen the striker bolts.
3. Lift up the trunk lid approx. 100 - 150 mm (3.94 - 5.91 in) height then close it lightly. Make sure it engages firmly with the trunk lid closed.
4. Tighten the trunk lid striker.

TRUNK LID HINGE

TRUNK LID HINGE : Removal and Installation

INFOID:000000011536577

REMOVAL

1. Remove trunk lid assembly. Refer to [DLK-190. "TRUNK LID ASSEMBLY : Removal and Installation"](#).
2. Remove torsion bar. Refer to [DLK-194. "TORSION BAR : Removal and Installation"](#).
3. Remove rear parcel shelf finisher. Refer to [INT-33. "Removal and Installation"](#).
4. Remove trunk lid hinge bolts (body side) and remove.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

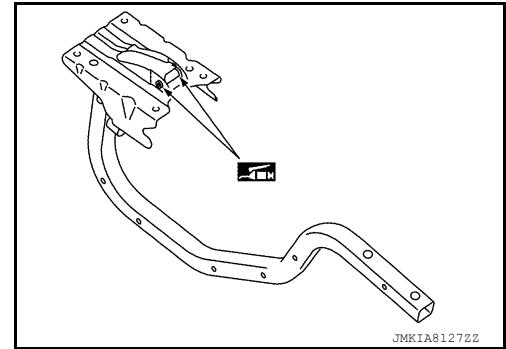
- Check trunk lid open/close, lock/unlock operation after installation.
- After installation, perform the trunk lid assembly adjustment procedure. Refer to [DLK-192. "TRUNK LID ASSEMBLY : Adjustment"](#).

TRUNK LID

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

- Check trunk lid hinge rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.



TORSION BAR

TORSION BAR : Removal and Installation

INFOID:000000011536578

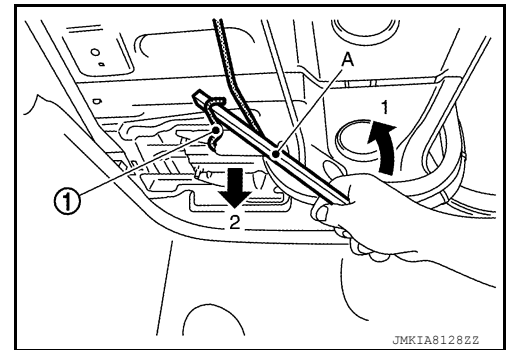
REMOVAL

1. Remove torsion bar clips.
2. Support the trunk lid assembly using a suitable tool.

WARNING:

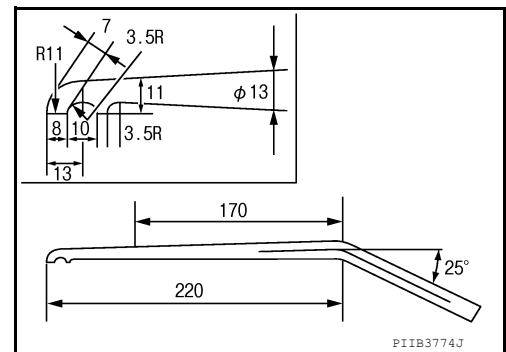
Bodily injury may occur if hood assembly is not supported properly when removing hood assembly.

3. Lift torsion bar (1) using a suitable tool (A) as shown to remove.



NOTE:

The suitable tool specifications are as shown.



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

After installation check the trunk lid open/close, lock/unlock operation.

TRUNK LID LOCK

TRUNK LID LOCK : Removal and Installation

INFOID:000000011536579

REMOVAL

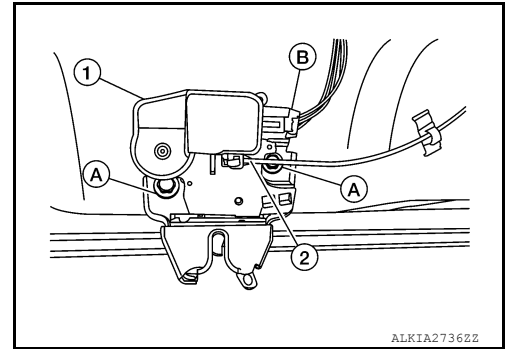
1. Remove the trunk lid finisher (if equipped). Refer to [INT-45, "Removal and Installation"](#).

TRUNK LID

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

2. Disconnect the harness connector (B) and emergency release handle (2) from the trunk lid lock (1).
3. Remove the trunk lid lock bolts (A) and remove.



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

After installation, perform the trunk lid assembly adjustment procedure. Refer to [DLK-192, "TRUNK LID ASSEMBLY : Adjustment"](#).

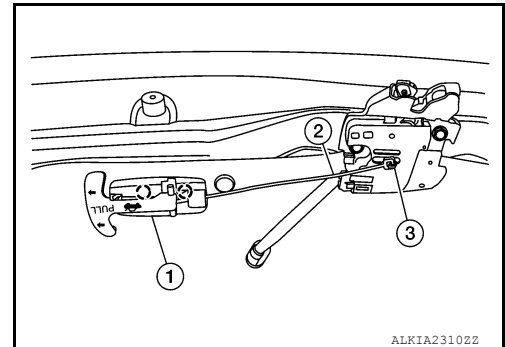
EMERGENCY LEVER

EMERGENCY LEVER : Removal and Installation

INFOID:0000000011536580

REMOVAL

1. Remove the trunk lid finisher (if equipped). Refer to [INT-45, "Removal and Installation"](#).
2. Using a suitable tool release the pawls and remove emergency release handle (1) from trunk lid assembly.
○: Pawl
3. Disconnect emergency release handle cable (2) from trunk lid lock assembly (3).



INSTALLATION

Installation is in the reverse order of removal.

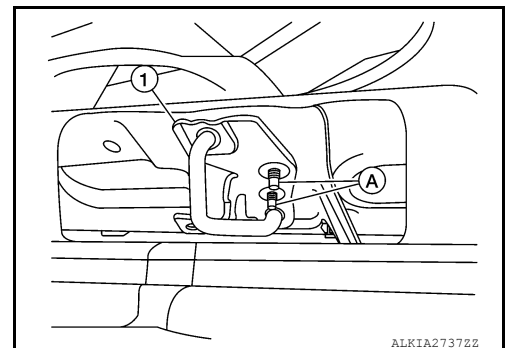
TRUNK LID STRIKER

TRUNK LID STRIKER : Removal and Installation

INFOID:0000000011536581

REMOVAL

1. Remove the trunk kicking plate. Refer to [INT-42, "TRUNK REAR PLATE : Removal and Installation"](#).
2. Remove bolts (A) and striker (1).



INSTALLATION

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TRUNK LID

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

Installation is in the reverse order of removal.

CAUTION:

After installation, perform the trunk lid assembly adjustment procedure. Refer to [DLK-192, "TRUNK LID ASSEMBLY : Adjustment"](#).

FUEL FILLER LID OPENER

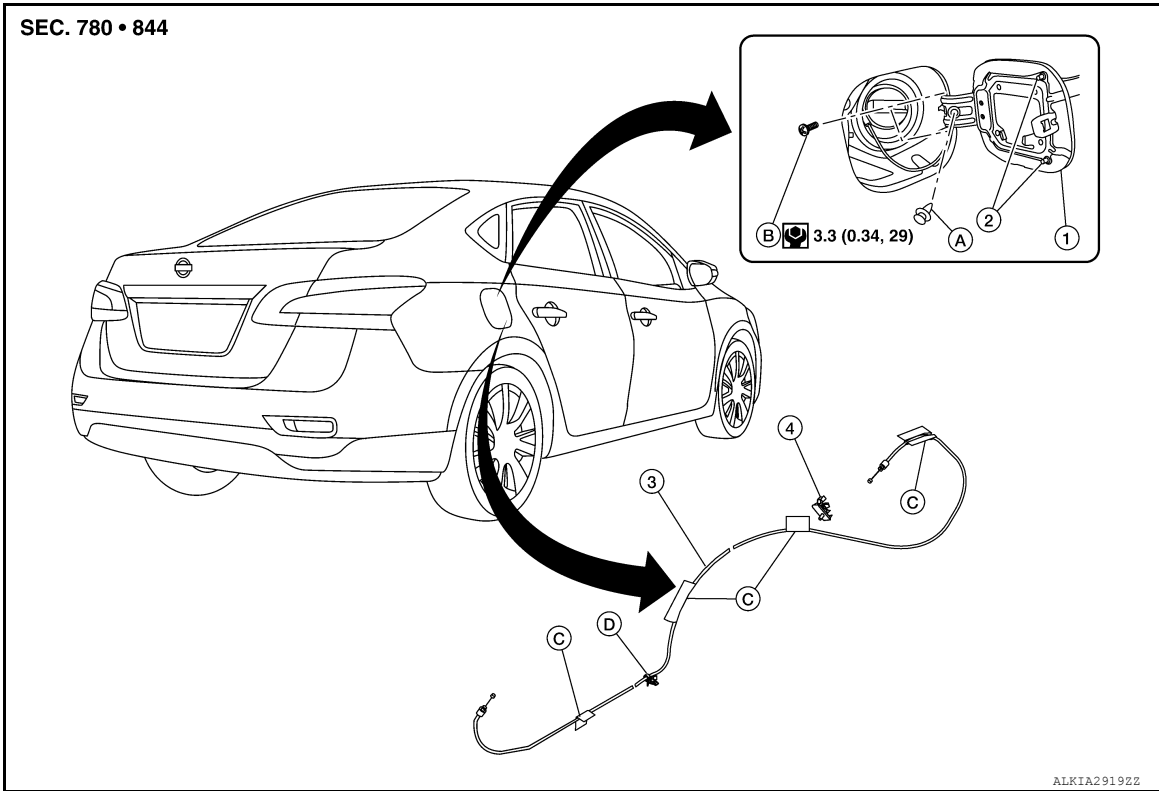
< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

FUEL FILLER LID OPENER

Exploded View

INFOID:000000011536582



- 1. Fuel filler lid
- 4. Fuel filler lid lock
- C. Cable protector

- 2. Bumper rubber
- A. Clip

- 3. Fuel filler lid opener cable
- B. Bolt

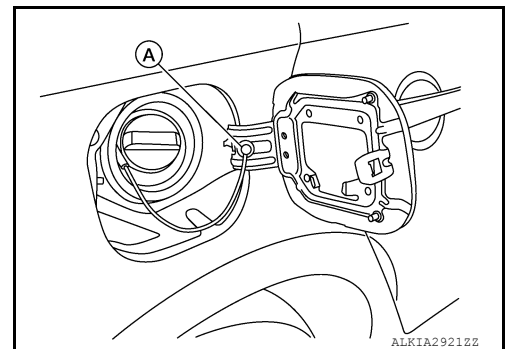
FUEL FILLER LID

FUEL FILLER LID : Removal and Installation

INFOID:000000011536583

REMOVAL

1. Fully open fuel filler lid.
2. Remove fuel cap clip (A).



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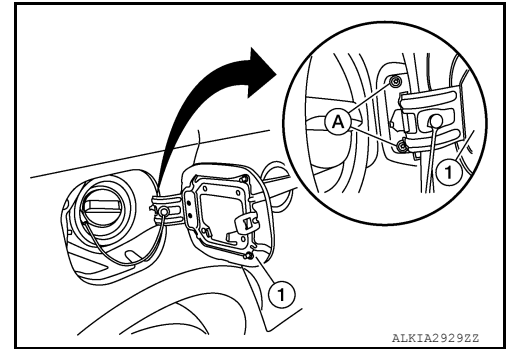
DLK

FUEL FILLER LID OPENER

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

- Remove fuel filler lid screws (A) and fuel filler lid (1).



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

After installation, check fuel filler lid assembly open/close, lock/unlock operation.

NOTE:

- The following table shows the specifications for a correctly installed fuel filler lid.
- Fitting adjustment cannot be performed.

Unit: mm (in)

Portion	Measurement	Standard
Fuel filler lid – Body side outer	Clearance	5.1 ±1.0 (0.20 ±0.04)
Fuel filler lid – Body side outer	Surface height	0.0 ±1.0 (0.0 ±0.04)

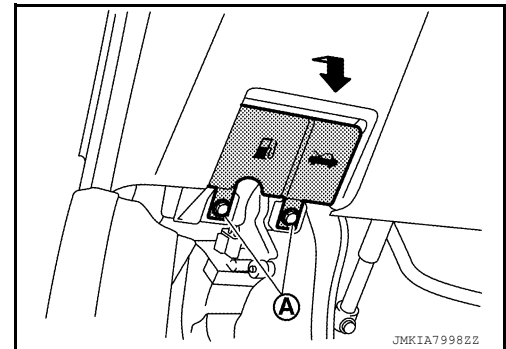
FUEL FILLER OPENER CABLE

FUEL FILLER OPENER CABLE : Removal and Installation

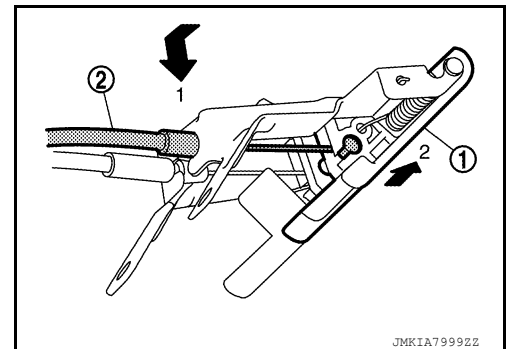
INFOID:000000011536584

REMOVAL

- Remove hood and fuel filler handle assembly bolts (A).



- Release fuel filler lid opener cable (2) by pulling downward and then sliding cable end to the side to remove from hood and fuel filler handle assembly (1).



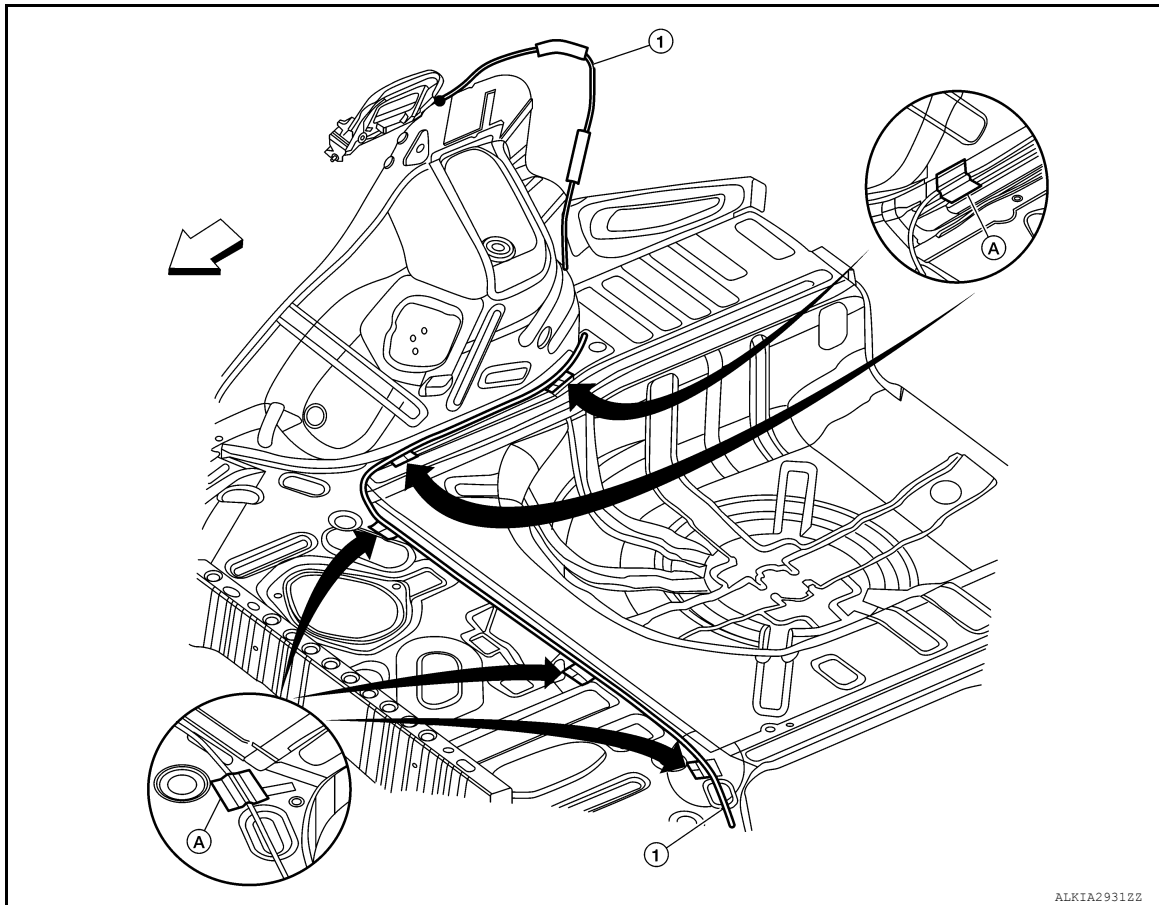
- Remove dash side finisher (LH). Refer to [IP-14. "Removal and Installation"](#).
- Remove center pillar lower finisher (LH). Refer to [INT-27. "CENTER PILLAR LOWER FINISHER : Removal and Installation"](#).

FUEL FILLER LID OPENER

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

5. Remove rear seat bolster (LH). Refer to [SE-24. "Removal and Installation - Rear Seat Bolster"](#).
6. Remove trunk side finisher (LH). Refer to [INT-43. "TRUNK SIDE FINISHER : Removal and Installation"](#).
7. Remove fuel filler lid opener cable (1) from fuel filler lid lock assembly. Refer to [DLK-199. "FUEL FILLER LID LOCK : Removal and Installation"](#).



⇐ Front

8. Remove each cable protector (A), then remove fuel filler lid opener cable (1).

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

After installation, check fuel filler lid assembly open/close, lock/unlock operation.

FUEL FILLER LID LOCK

FUEL FILLER LID LOCK : Removal and Installation

INFOID:000000011536585

REMOVAL

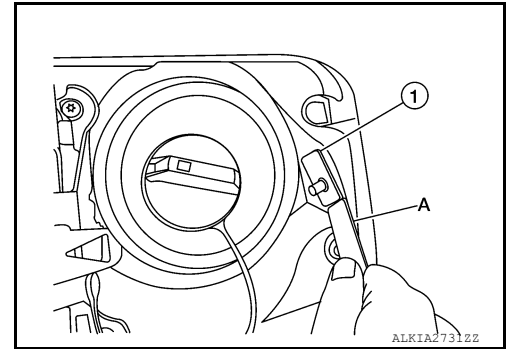
1. Fully open fuel filler lid.

FUEL FILLER LID OPENER

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

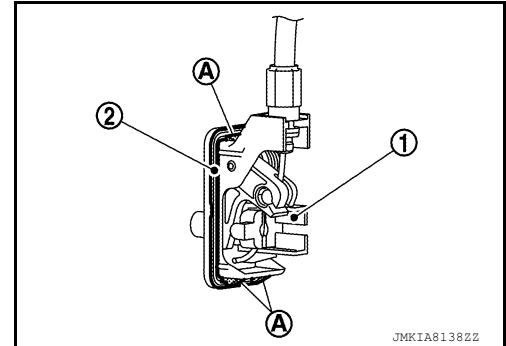
2. Insert a suitable tool (A) as shown into bottom of fuel filler lock assembly (1).



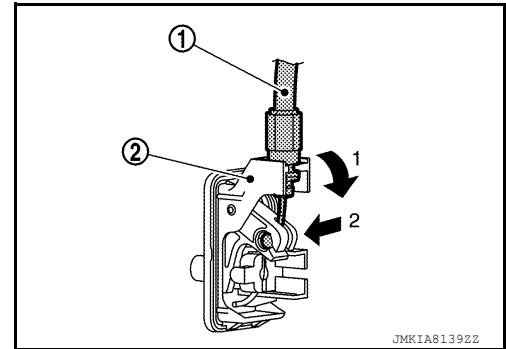
3. Release upper and lower pawls (A) using a suitable tool and remove fuel filler lid lock assembly (1).

CAUTION:

Be careful not to damage gasket (2) when removing.



4. Disconnect fuel filler lid opener cable (1) by pulling downward and then sliding cable end to the side to remove from fuel filler lid lock assembly (2).



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

After installation, check fuel filler lid assembly open/close, lock/unlock operation.

DOOR SWITCH

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

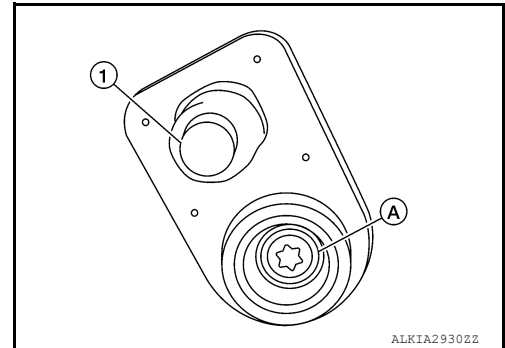
DOOR SWITCH

Removal and Installation

INFOID:000000011536586

REMOVAL

1. Remove the door switch screw (A).
2. Disconnect the harness connector from the door switch (1) and remove.



INSTALLATION

Installation is in the reverse order of removal.

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INSIDE KEY ANTENNA

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

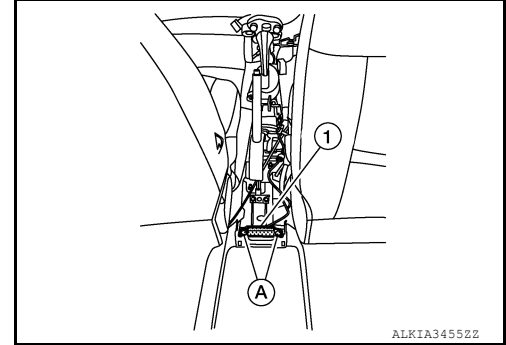
INSIDE KEY ANTENNA CONSOLE

CONSOLE : Removal and Installation

INFOID:000000011536587

REMOVAL

1. Remove the shift selector finisher. Refer to [JP-17. "Removal and Installation"](#).
2. Remove the inside key antenna (console) screws (A) and inside key antenna (console) (1).



INSTALLATION

Installation is in the reverse order of removal.

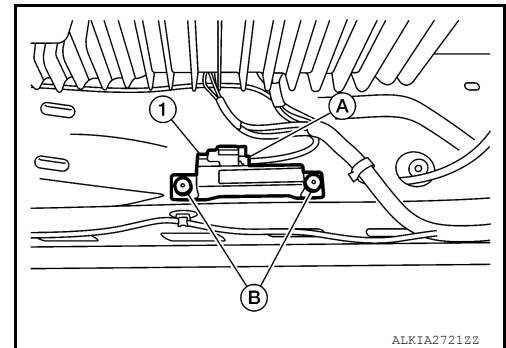
LUGGAGE ROOM

LUGGAGE ROOM : Removal and Installation

INFOID:000000011536588

REMOVAL

1. Disconnect the harness connector (A) from the inside key antenna (luggage room) (1).
2. Remove the inside key antenna (luggage room) clips (B), and remove.



INSTALLATION

Installation is in the reverse order of removal.

INSTRUMENT CENTER

INSTRUMENT CENTER : Removal and Installation

INFOID:000000011894605

REMOVAL

1. Remove the A/C switch assembly (automatic air conditioner). Refer to [HAC-104. "Removal and Installation"](#).
2. Remove the A/C switch assembly (manual air conditioner). Refer to [HAC-188. "Removal and Installation"](#).
3. Disconnect the harness connector from the inside key antenna (instrument center).
4. Remove the inside key antenna (instrument center) screws and inside key antenna (instrument center).

INSTALLATION

Installation is in the reverse order of removal.

OUTSIDE KEY ANTENNA

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

OUTSIDE KEY ANTENNA

DRIVER SIDE

DRIVER SIDE : Removal and Installation

INFOID:0000000011536589

The driver side outside key antenna and driver side outside handle are serviced as an assembly. Refer to [DLK-180, "FRONT DOOR HANDLE : Removal and Installation - Outside Handle"](#).

PASSENGER SIDE

PASSENGER SIDE : Removal and Installation

INFOID:0000000011536590

The passenger side outside key antenna and passenger side outside handle are serviced as an assembly. Refer to [DLK-180, "FRONT DOOR HANDLE : Removal and Installation - Outside Handle"](#).

Installation is in the reverse order of removal.

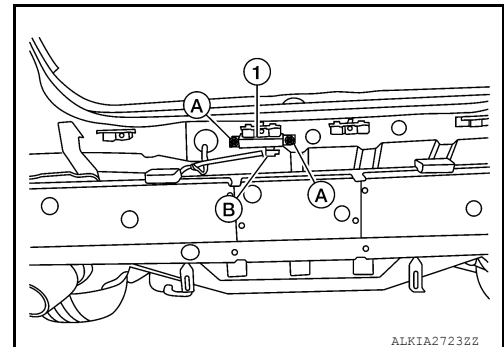
REAR BUMPER

REAR BUMPER : Removal and Installation

INFOID:0000000011536591

REMOVAL

1. Remove rear bumper fascia. Refer to [EXT-21, "Removal and Installation"](#).
2. Disconnect the harness connector (B) from the rear bumper key antenna (1).
3. Remove the nuts (A) that retain the rear bumper key antenna (1) to the body.



INSTALLATION

Installation is in the reverse order of removal.

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DOOR REQUEST SWITCH

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

DOOR REQUEST SWITCH

DRIVER SIDE

DRIVER SIDE : Removal and Installation

INFOID:0000000011536592

The driver side door request switch and driver side outside handle are serviced as an assembly. Refer to [DLK-180, "FRONT DOOR HANDLE : Removal and Installation - Outside Handle"](#).

PASSENGER SIDE

PASSENGER SIDE : Removal and Installation

INFOID:0000000011536593

The passenger side door request switch and passenger side outside handle are serviced as an assembly. Refer to [DLK-180, "FRONT DOOR HANDLE : Removal and Installation - Outside Handle"](#).

TRUNK LID FINISHER

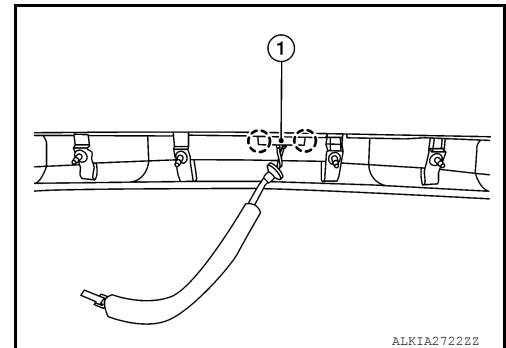
TRUNK LID FINISHER : Removal and Installation

INFOID:0000000011536594

REMOVAL

1. Remove the license lamp finisher. Refer to [EXT-45, "Removal and Installation"](#).
2. Release the pawls and remove the trunk lid request switch (1).

○: Pawl



INSTALLATION

Installation is in the reverse order of removal.

INTELLIGENT KEY WARNING BUZZER

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

INTELLIGENT KEY WARNING BUZZER

Removal and Installation

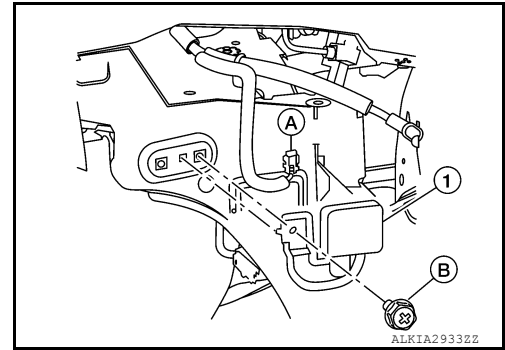
INFOID:000000011536595

REMOVAL

NOTE:

The Intelligent Key warning buzzer is located in the front passenger side area of the engine compartment, near the washer tank.

1. Remove the washer tank inlet. Refer to [WW-51, "Exploded View"](#).
2. Remove the nut (B) and the Intelligent Key warning buzzer (1).
3. Disconnect the harness connector (A) from the Intelligent Key warning buzzer (1) and remove.



INSTALLATION

Installation is in the reverse order of removal.

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REMOTE KEYLESS ENTRY RECEIVER

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

REMOTE KEYLESS ENTRY RECEIVER

Removal and Installation

INFOID:000000011536596

REMOVAL

1. Remove glove box assembly. Refer to [IP-22. "Removal and Installation"](#).
2. Disconnect the harness connector from the remote keyless entry receiver.
3. Remove the screw and remote keyless entry receiver.

INSTALLATION

Installation is in the reverse order of removal.

INTELLIGENT KEY BATTERY

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

INTELLIGENT KEY BATTERY

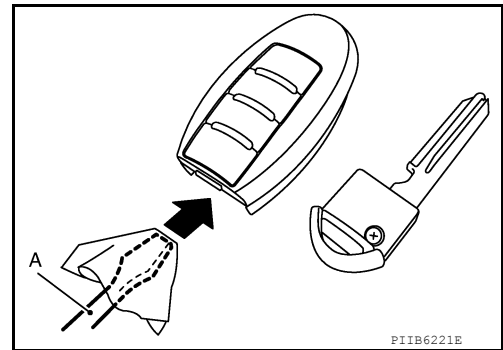
Removal and Installation

INFOID:000000011536597

1. Release the lock knob on the back of the Intelligent Key and remove the key.
2. Insert a suitable tool (A) wrapped with a cloth into the slit of the corner and rotate it to separate the upper part from the lower part.

CAUTION:

- Do not insert a tool into the notches of the Intelligent Key to pry it open, as this may damage the circuit board.
- Do not use excessive force when opening the Intelligent Key, as this may result in damage to the internal components.
- Do not touch the circuit board or battery terminal.
- The key fob is water-resistant. However, if it does get wet, immediately wipe it dry.



3. Replace the battery with a new one.

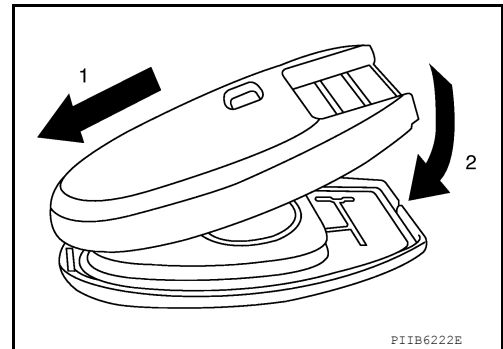
Battery replacement

:Coin-type lithium battery (CR2032)

4. Align the tips of the upper and lower parts, and then push them together until unit is securely closed.

CAUTION:

- When replacing battery, keep dirt, grease, and other foreign materials off the electrode contact area.
- After replacing the battery, check that all Intelligent Key functions work normally.



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TRUNK LID OPENER SWITCH

< REMOVAL AND INSTALLATION >

[WITH INTELLIGENT KEY SYSTEM]

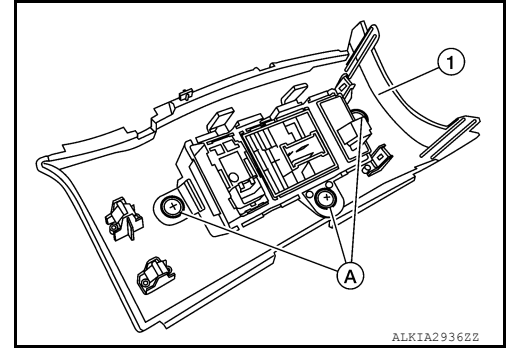
TRUNK LID OPENER SWITCH

Removal and Installation

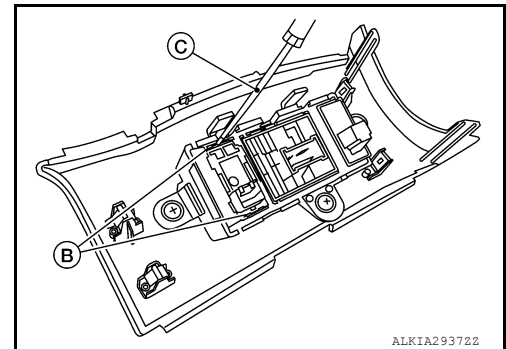
INFOID:000000011536598

REMOVAL

1. Remove the instrument lower panel LH. Refer to [IP-21. "Removal and Installation"](#).
2. Remove to the instrument finisher D (1).
3. Remove the screws (A) that retain the switch carrier to the instrument finisher D.



4. Release upper tab and lower tab (B) using a suitable tool (C), then remove the trunk lid opener switch from the upper switch carrier.



INSTALLATION

Installation is in the reverse order of removal.

PRECAUTIONS

< PRECAUTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

PRECAUTION

PRECAUTIONS

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

INFOID:000000011536599

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

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which 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 the SR section.
- Do not 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

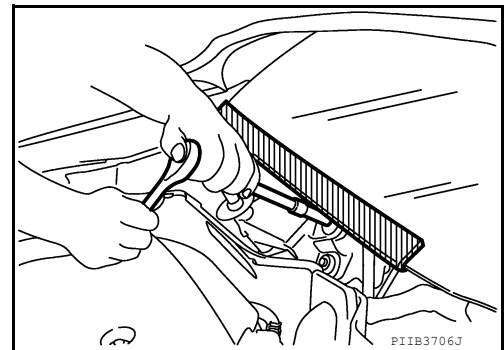
WARNING:

- When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors with the Ignition ON or engine running, DO NOT 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 three minutes before performing any service.

Procedure without Cowl Top Cover

INFOID:000000011536600

When performing the procedure after removing cowl top cover, cover the lower end of windshield with urethane, etc.



Precaution for Servicing Doors and Locks

INFOID:000000011536601

WARNING:

Radio waves could adversely affect electric medical equipment. Those who use a pacemaker should contact the electric medical equipment manufacturer for the possible influences before use,

- After removing and installing the opening/closing parts, be sure to carry out fitting adjustments to check their operation.
- Check the lubrication level, damage, and wear of each part. If necessary, grease or replace it.
- 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 prevent them from being dropped.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with a new one.

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PRECAUTIONS

< PRECAUTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

- Be sure to tighten bolts and nuts securely to the specified torque.
- After installation is complete, be sure to check that each part works properly.
- Follow the steps below to clean components:
 - Water soluble dirt:
 - Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area.
 - Then rub with a soft, dry cloth.
 - Oily dirt:
 - Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%) and wipe the dirty area.
 - Then dip a cloth into fresh water, wring the water out of the cloth and wipe the detergent off.
 - Then rub with a soft, dry cloth.
 - Do not use organic solvent such as thinner, benzene, alcohol or gasoline.
 - For genuine leather seats, use a genuine leather seat cleaner.

PREPARATION

[WITHOUT INTELLIGENT KEY SYSTEM]

< PREPARATION >

PREPARATION

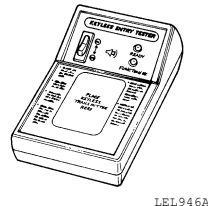
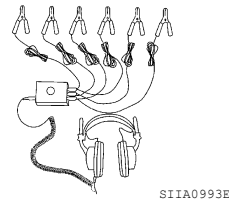
PREPARATION

Special Service Tools

INFOID:000000011536602

The actual shape of the tools may differ from those illustrated here.

Tool number (TechMate No.) Tool name	Description
— (J-39570) Chassis Ear	Locating the noise
— (J-50397) NISSAN Squeak and Rattle Kit	Repairing the cause of noise
— (J-43241) Remote Keyless Entry Tester	Used to test key fobs
— (J-50190) Signal Tech II	<ul style="list-style-type: none"> • Activate and display TPMS transmitter IDs • Display tire pressure reported by the TPMS transmitter • Read TPMS DTCs • Register TPMS transmitter IDs • Test remote keyless entry keyfob relative signal strength • Compatible with future sensors • Equipped with a display • Check Intelligent Key relative signal strength • Confirm vehicle Intelligent Key antenna signal strength


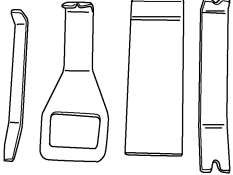


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PREPARATION

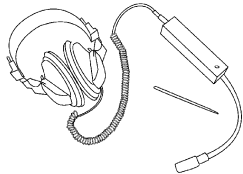

[WITHOUT INTELLIGENT KEY SYSTEM]

< PREPARATION >

Tool number (TechMate No.) Tool name	Description
KV48105501 (J-45295-A) Transmitter activation tool  ALEIA0183ZZ	<ul style="list-style-type: none"> • Activate TPMS transmitter IDs • Compatible with future sensors • Equipped with a display (KV48105501 only)
— (J-46534) Trim Tool Set  AWJIA0483ZZ	Removing trim components

Commercial Service Tools

INFOID:000000011536603

(TechMate No.) Tool name	Description
(J-39565) Engine Ear  SIIA0995E	Locating the noise
(—) Power tool  PIIB1407E	Loosening nuts, screws and bolts

CLIP LIST

< PREPARATION >


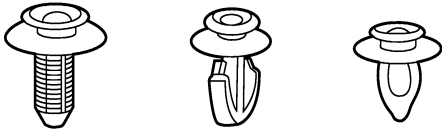


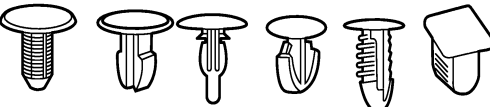
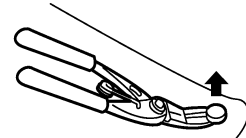

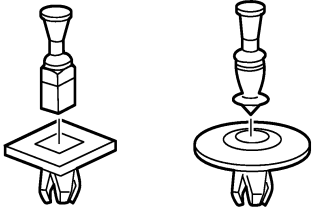
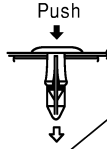
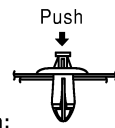

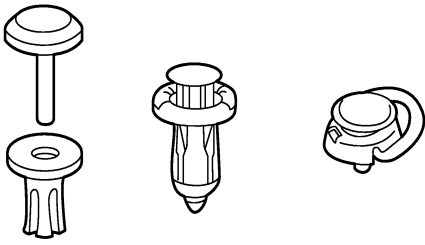


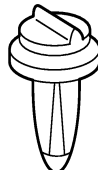
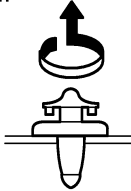
[WITHOUT INTELLIGENT KEY SYSTEM]

CLIP LIST

Descriptions for Clips

INFOID:000000011536604

Replace any clips which are damaged during removal or installation.

Symbol No.	Shapes	Removal & Installation
C101 		<p>Removal: Remove by bending up with flat-bladed screwdrivers or clip remover.</p> 
C103 		 <p>Removal: Remove with a clip remover.</p>
C203 		<p>Removal: Push center pin to catching position. (Do not remove center pin by hitting it.)</p> <p>Push</p>  <p>Installation:</p> <p>Push</p> 
C205 		<p>Removal: Flat-bladed screwdriver</p>  <p>Clip</p> <p>Finisher</p>
C206 		<p>Removal:</p> 


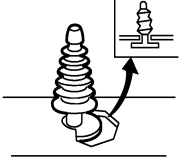
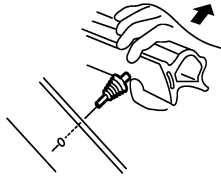

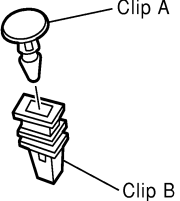
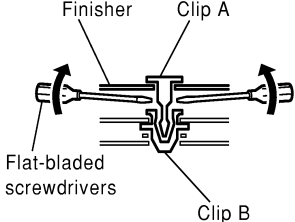

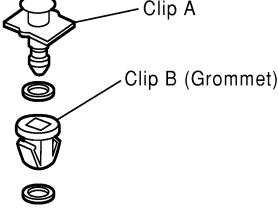
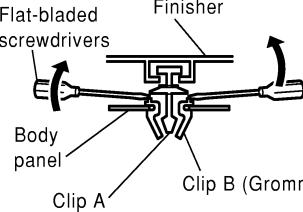

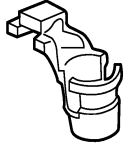
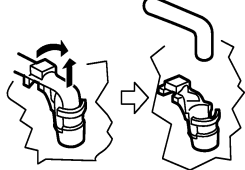

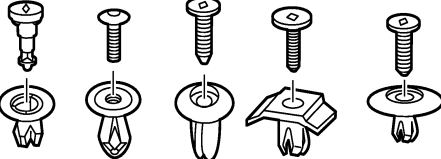

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CLIP LIST

< PREPARATION >

[WITHOUT INTELLIGENT KEY SYSTEM]


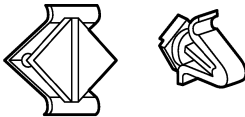

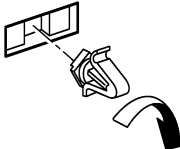

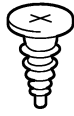



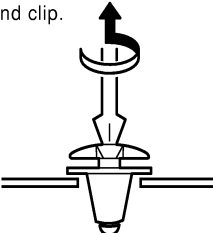



Symbol No.	Shapes	Removal & Installation
<p>CE103</p> 		<p>Removal:</p> 
<p>CF110</p> 		<p>Removal:</p> 
<p>CF118</p> 		<p>Removal:</p> 
<p>CR103</p> 		<p>Removal: Holder portion of clip must be spread out to remove rod.</p> 
<p>CS101</p> 		<p>Removal:</p> <ol style="list-style-type: none"> 1. Screw out with a Phillips screwdriver. 2. Remove female portion with flat-bladed screwdriver. 

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CLIP LIST

< PREPARATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

Symbol No.	Shapes	Removal & Installation	
CG101 		Removal:  Rotate 45° to remove	Installation: 
CS102 			
CS113 		Removal: Disconnect upper connection of clip with a flat-bladed screwdriver, then remove clip while inserting a flat-bladed screwdriver between body panel and clip. 	
C111 			

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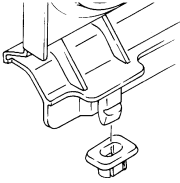
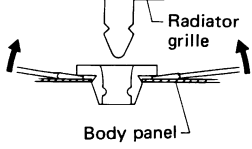

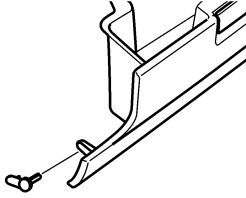
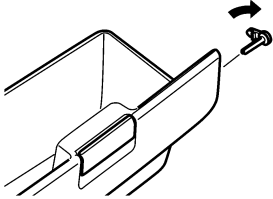

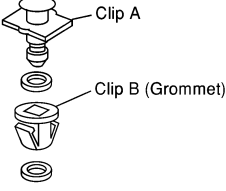
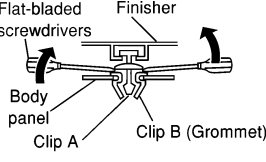
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CLIP LIST

< PREPARATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

Symbol No.	Shapes	Removal & Installation
<p>CG104</p> 		<p>Removal: Remove by bending up with flat-bladed screwdrivers.</p> 
<p>CE114</p> 		
<p>CF118</p> 		<p>Removal: Flat-bladed screwdrivers Finisher</p> 

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COMPONENT PARTS

< SYSTEM DESCRIPTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

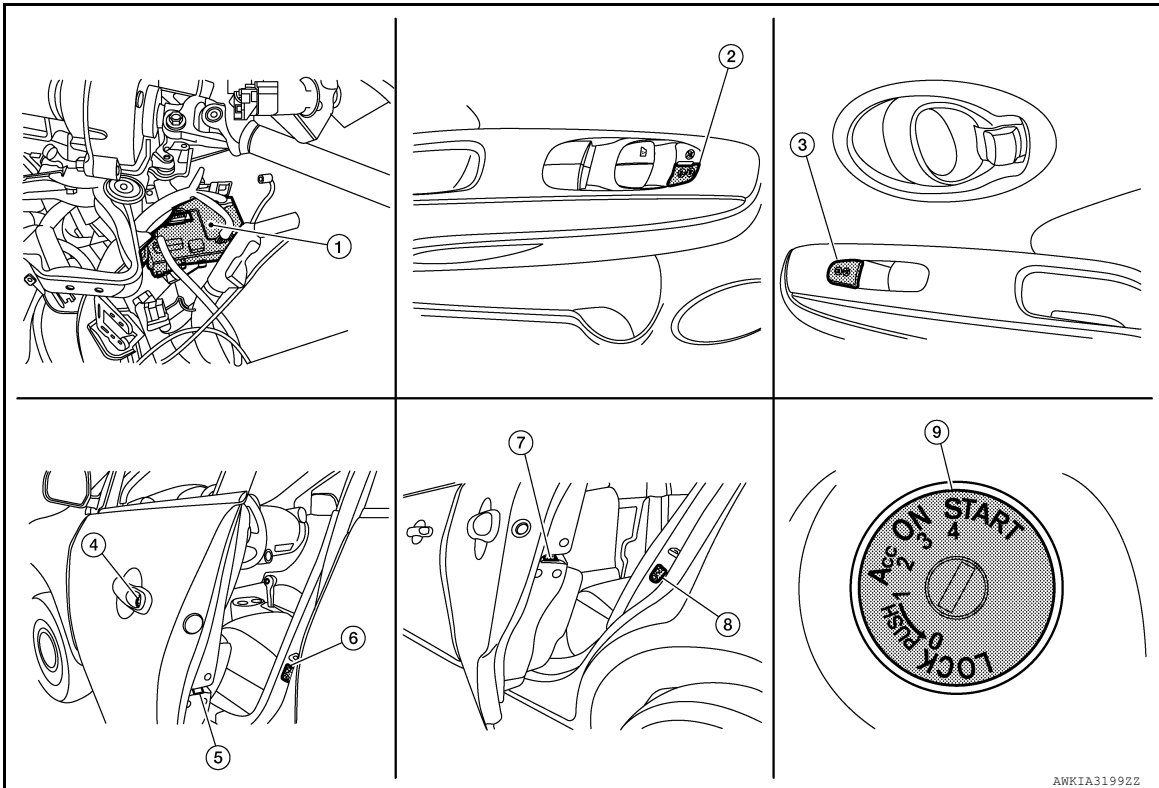
SYSTEM DESCRIPTION

COMPONENT PARTS

AUTOMATIC DOOR LOCK/UNLOCK FUNCTION

AUTOMATIC DOOR LOCK/UNLOCK FUNCTION : Component Parts Location

INFOID:000000011536605



- | | | |
|--|--|--|
| 1. BCM
(view with instrument panel removed) | 2. Main power window and door lock/unlock switch | 3. Power window and door lock/unlock switch RH |
| 4. Front door lock key cylinder switch LH | 5. Front door lock actuator LH
(RH similar) | 6. Front door switch LH
(RH similar) |
| 7. Rear door lock actuator LH
(RH similar) | 8. Rear door switch LH
(RH similar) | 9. Key switch |

AUTOMATIC DOOR LOCK/UNLOCK FUNCTION : Component Description

INFOID:000000011536606

Item	Function
BCM	Controls the door lock function.
Door lock and unlock switch	Input lock or unlock signal to BCM.
Door lock actuator	Output lock/unlock signal from BCM and locks/unlocks each door.
Door switch	Input door open/close condition to BCM.
Key switch	Input key switch condition to BCM.
Front door lock key cylinder switch LH	Input lock or unlock signal to the BCM.
ABS actuator and electric unit (control unit)	Transmits vehicle speed signal to CAN communication line.
Ignition switch	Input ignition switch ON/OFF condition to BCM.

POWER DOOR LOCK SYSTEM

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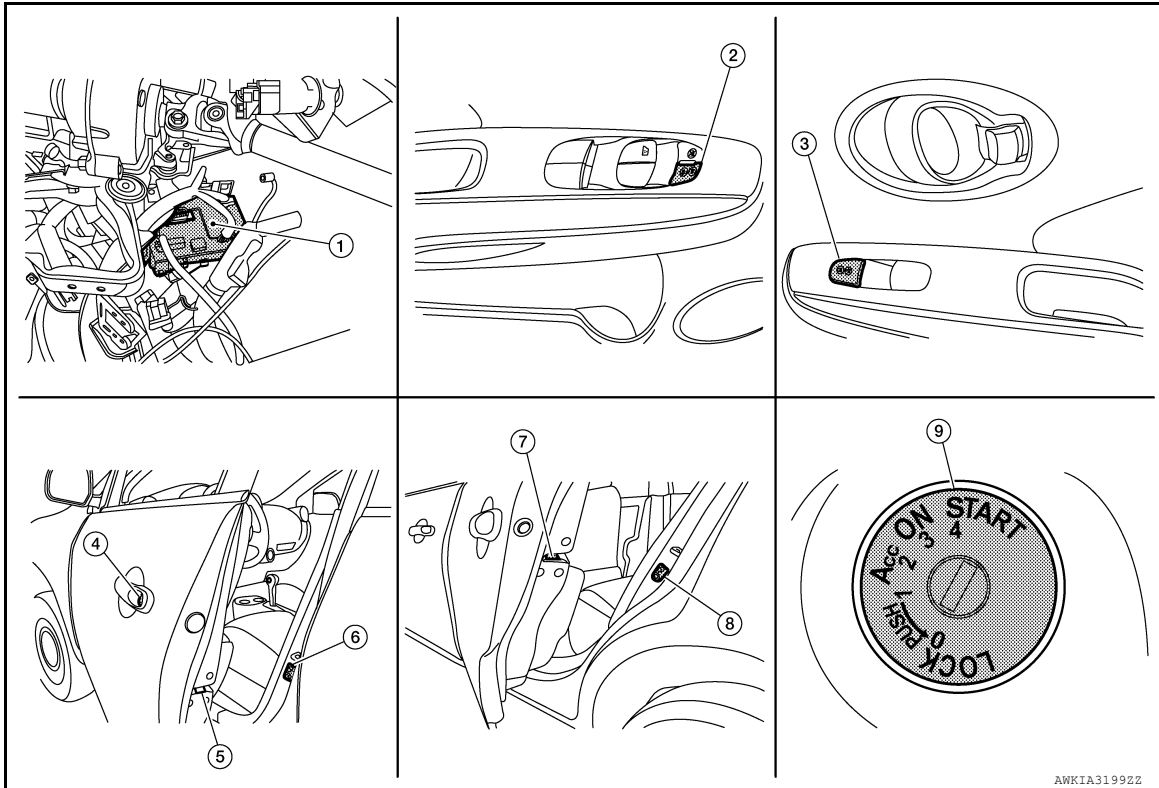
COMPONENT PARTS

< SYSTEM DESCRIPTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

POWER DOOR LOCK SYSTEM : Component Parts Location

INFOID:000000011536607



- | | | |
|--|--|--|
| 1. BCM
(view with instrument panel removed) | 2. Main power window and door lock/unlock switch | 3. Power window and door lock/unlock switch RH |
| 4. Front door lock key cylinder switch LH | 5. Front door lock actuator LH
(RH similar) | 6. Front door switch LH
(RH similar) |
| 7. Rear door lock actuator LH
(RH similar) | 8. Rear door switch LH
(RH similar) | 9. Key switch |

POWER DOOR LOCK SYSTEM : Component Description

INFOID:000000011536608

Item	Function
BCM	Controls the door lock function.
Door lock and unlock switch	Input lock or unlock signal to BCM.
Door lock actuator	Output lock/unlock signal from BCM and locks/unlocks each door.
Door switch	Input door open/close condition to BCM.
Key switch	Input key switch condition to BCM.
Front door lock key cylinder switch LH	Input lock or unlock signal to the BCM.
ABS actuator and electric unit (control unit)	Transmits vehicle speed signal to CAN communication line.
Ignition switch	Input ignition switch ON/OFF condition to BCM.

REMOTE KEYLESS ENTRY SYSTEM

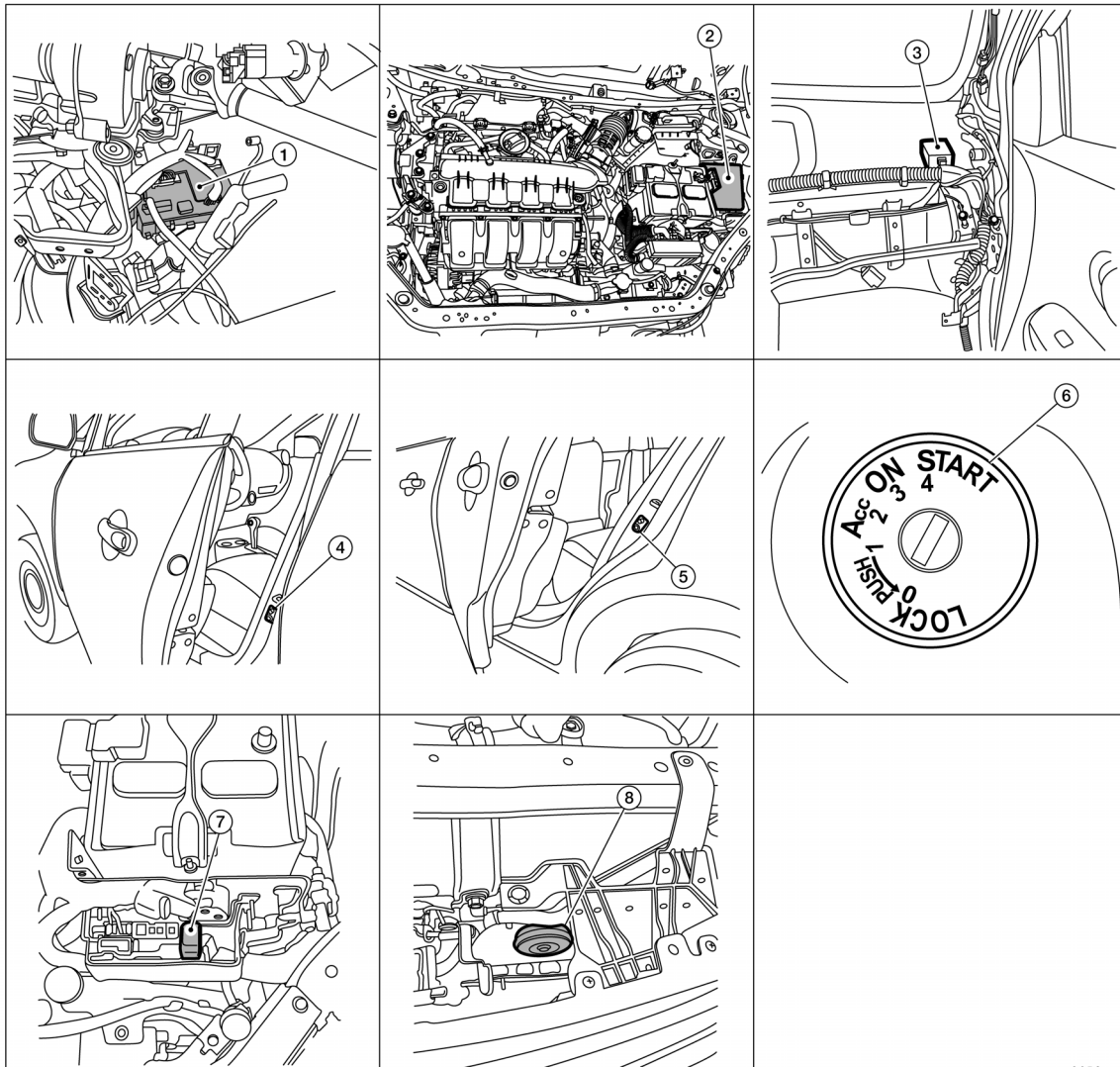
COMPONENT PARTS

< SYSTEM DESCRIPTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

REMOTE KEYLESS ENTRY SYSTEM : Component Parts Location

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| 1. BCM
(view with instrument panel removed) | 2. IPDM E/R | 3. Remote keyless entry receiver
(view with instrument panel removed) |
| 4. Front door switch LH
(RH similar) | 5. Rear door switch LH
(RH similar) | 6. Key switch |
| 7. Horn relay | 8. Horn | |

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REMOTE KEYLESS ENTRY SYSTEM : Component Description

INFOID:000000011536610

Item	Function
BCM	Controls the door lock function.
Door lock and unlock switch	Input lock or unlock signal to BCM.
Door switch	Input door open/close condition to BCM.
Key switch	Input key switch condition to BCM.
Remote keyless entry receiver	Receives lock/unlock signal from the keyfob, and then transmits to BCM.
Ignition switch	Input ignition switch ON/OFF condition to BCM.
Horn	Provides audible warning in panic mode.

TRUNK LID OPENER SYSTEM

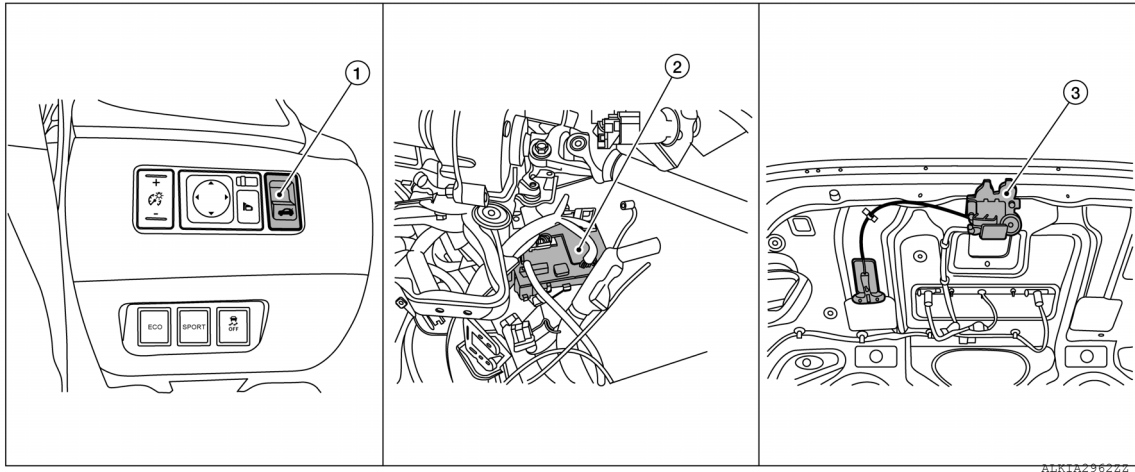
COMPONENT PARTS

< SYSTEM DESCRIPTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

TRUNK LID OPENER SYSTEM : Component Parts Location

INFOID:000000011536611



1. Trunk lid opener switch

2. BCM (view with instrument panel re-
moved)

3. Trunk lid opener assembly (trunk lid
opener actuator and trunk lid switch)

TRUNK LID OPENER SYSTEM : Component Description

INFOID:000000011536612

Item	Function
BCM	Controls the trunk lid opener system.
Trunk lid opener actuator	Releases the mechanical latch to open the trunk lid.
Trunk lid opener switch	Inputs the trunk open request to the BCM.
Trunk lid switch	Inputs the trunk lid open/close condition to the BCM.

SYSTEM (POWER DOOR LOCK SYSTEM)

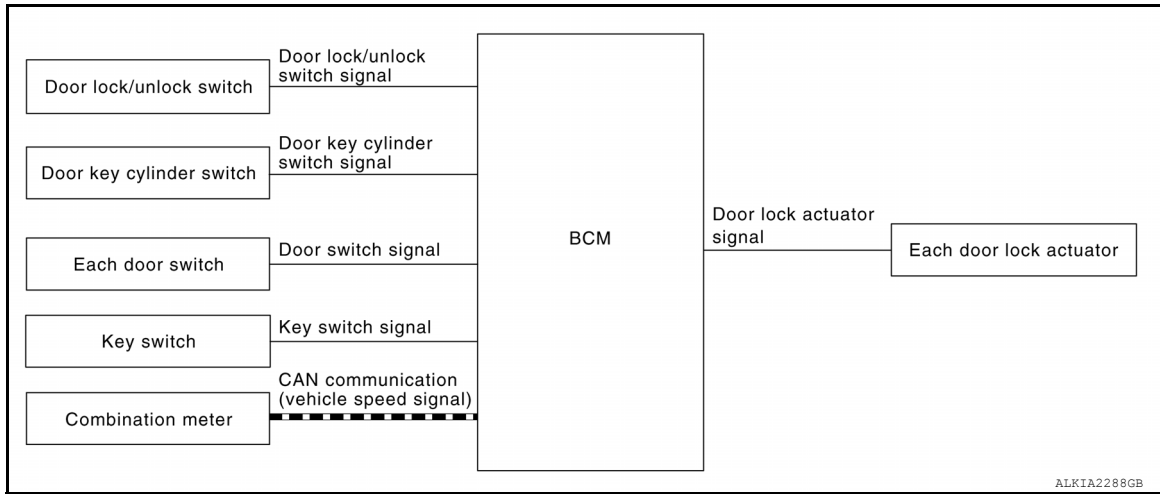
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[WITHOUT INTELLIGENT KEY SYSTEM]

SYSTEM (POWER DOOR LOCK SYSTEM) AUTOMATIC DOOR LOCK/UNLOCK FUNCTION

AUTOMATIC DOOR LOCK/UNLOCK FUNCTION : System Diagram

INFOID:0000000011536613



AUTOMATIC DOOR LOCK/UNLOCK FUNCTION : System Description

INFOID:0000000011536614

Input	Single	Function	Actuator
Door lock/unlock switch	Door lock/unlock signal	Door lock function	• Each door lock actuator
Door key cylinder switch			
Each door switch	Door open/close signal	Key reminder function	
Combination meter.	Warning buzzer signal		
	Vehicle speed signal	Automatic door lock/unlock function	

DOOR LOCK FUNCTION

- The door lock and unlock switch (driver side) is built into main power window and door lock/unlock switch.
- The door lock and unlock switch (passenger side) is built into power window and door lock/unlock switch RH.
- Interlocked with the locking operation of door lock and unlock switch, door lock actuators of all doors are locked.
- Interlocked with the unlocking operation of door lock and unlock switch, door lock actuators of all doors are unlocked.

Door Key Cylinder

- With the door key inserted in the door key cylinder on driver side, turning it to “LOCK”, will lock door lock actuator of all doors.
- With the door key inserted in the door key cylinder on driver side, turning it to “UNLOCK” once unlocks the driver side door lock actuator; turning it to “UNLOCK” again within 60 seconds after the first unlock operation unlocks all of the other doors. - (SELECTIVE UNLOCK OPERATION)

Selective unlock operation mode can be changed using “DOOR LOCK-UNLOCK SET” mode in “WORK SUPPORT”. Refer to [BCS-91, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)".](#)

AUTOMATIC DOOR LOCKS (LOCK OPERATION)

The automatic door locks function is the function that locks all doors linked with the vehicle speed or shift position.

Vehicle Speed Sensing Auto Door Lock*1

All doors are locked when the vehicle speed reaches 24 km/h (15 MPH) or more.

BCM outputs the lock signal to all door lock actuators when it detects that the ignition switch is turned ON, all doors are closed and the vehicle speed received from the combination meter via CAN communication becomes 24 km/h (15 MPH) or more.

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SYSTEM (POWER DOOR LOCK SYSTEM)

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[WITHOUT INTELLIGENT KEY SYSTEM]

If a door is opened and closed at any time during one ignition cycle (OFF → ON), even after initial auto door lock operation has taken place, the BCM will relock all doors when the vehicle speed reaches 24 km/h (15 MPH) or more again.

Setting change of Automatic Door Locks (LOCK) Function

The LOCK operation setting of the automatic door locks function can be changed.

Ⓟ With CONSULT

The ON/OFF switching of the automatic door locks (LOCK) function and the type selection of the automatic door locks (LOCK) function can be performed at the WORK SUPPORT setting of CONSULT. Refer to [BCS-91, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)"](#).

ⓧ Without CONSULT

The automatic door locks (LOCK) function can be switched ON/OFF by performing the following operation.

1. Close all doors (door switch OFF)
2. Push the ignition switch to the ON position
3. Press and hold the door lock and unlock switch for 5 seconds or more in the lock direction within 20 seconds after turning the ignition switch ON.
4. The switching is completed when the hazard lamp blinks.

OFF → ON : 2 blinks

ON → OFF : 1 blink

5. The ignition switch must be turned OFF and ON again between each setting change.

AUTOMATIC DOOR LOCKS (UNLOCK OPERATION)

The automatic door locks (UNLOCK) function is the function that unlocks all doors linked with the key position or shift position.

IGN OFF Interlock Door Unlock*1

All doors are unlocked when the power supply position is changed from ON to OFF.

BCM outputs the unlock signal to all door lock actuators when it detects that the power supply position is changed from ignition switch ON to OFF.

Setting change of Automatic Door Locks (UNLOCK) Function

The UNLOCK operation setting of the automatic door locks function can be changed.

Ⓟ With CONSULT

The ON/OFF switching of the automatic door locks (UNLOCK) function and the type selection of the automatic door locks (UNLOCK) function can be performed at the WORK SUPPORT setting of CONSULT. Refer to [BCS-91, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)"](#).

ⓧ Without CONSULT

The automatic door locks (UNLOCK) function can be switched ON/OFF by performing the following operation.

1. Close all doors (door switch OFF)
2. Place the ignition switch in the ON position
3. Press and hold the door lock and unlock switch for 5 seconds or more in the unlock direction within 20 seconds after turning the power supply position ON.
4. The switching is completed when the hazard lamp blinks.

OFF → ON : 2 blinks

ON → OFF : 1 blink

5. The ignition switch must be turned OFF and ON again between each setting change.

*1: This function is set to ON before delivery.

POWER DOOR LOCK SYSTEM

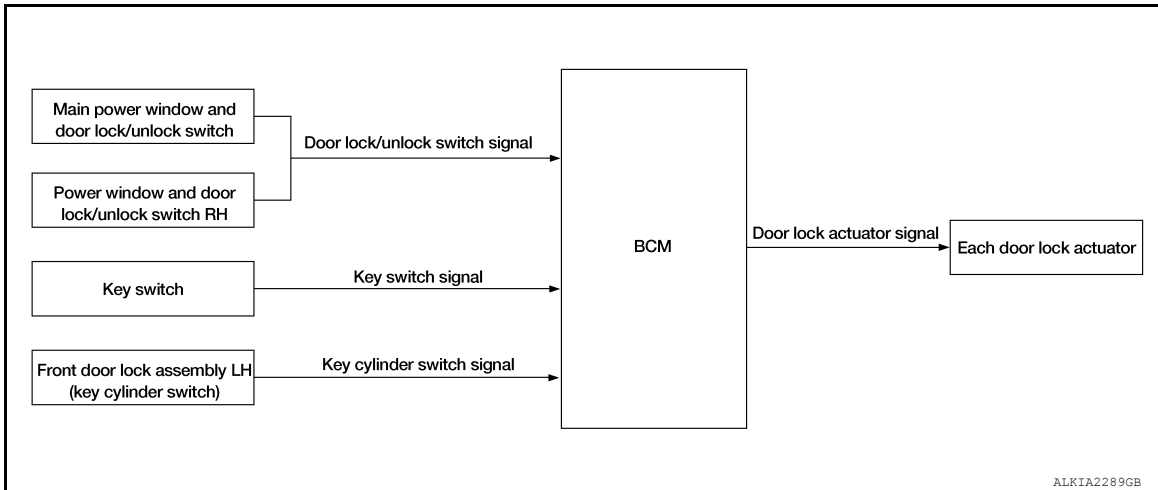
SYSTEM (POWER DOOR LOCK SYSTEM)

< SYSTEM DESCRIPTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

POWER DOOR LOCK SYSTEM : System Diagram

INFOID:000000011536615



POWER DOOR LOCK SYSTEM : System Description

INFOID:000000011536616

Switch	Input/output signal to BCM	BCM function	Actuator
Main power window and door lock/unlock switch	Door lock/unlock signal	Door lock/unlock control	Door lock actuator
Power window and door lock/unlock switch RH			
Front door lock key cylinder switch LH			

DOOR LOCK FUNCTION

Functions Available by Operating the Door Lock and Unlock Switches on Driver Door and Passenger Door

- Interlocked with the locking operation of door lock and unlock switch, door lock actuators of all door lock actuators are locked.
- Interlocked with the unlocking operation of door lock and unlock switch, door lock actuators of all door lock actuators are unlocked.

Functions Available by Operating the Key Cylinder Switch on Driver Door

- Interlocked with the locking operation of door key cylinder, door lock actuators of all door lock actuators are locked.

Selective Unlock Operation

- When door key cylinder is unlocked, door lock actuator driver side is unlocked.
- When door key cylinder is unlocked for the second time within 5 seconds after the first operation, door lock actuators on all doors are unlocked.

Select unlock operation mode can be changed using DOOR LOCK-UNLOCK SET mode in "WORK SUPPORT". Refer to [BCS-91, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)".](#)

REMOTE KEYLESS ENTRY SYSTEM

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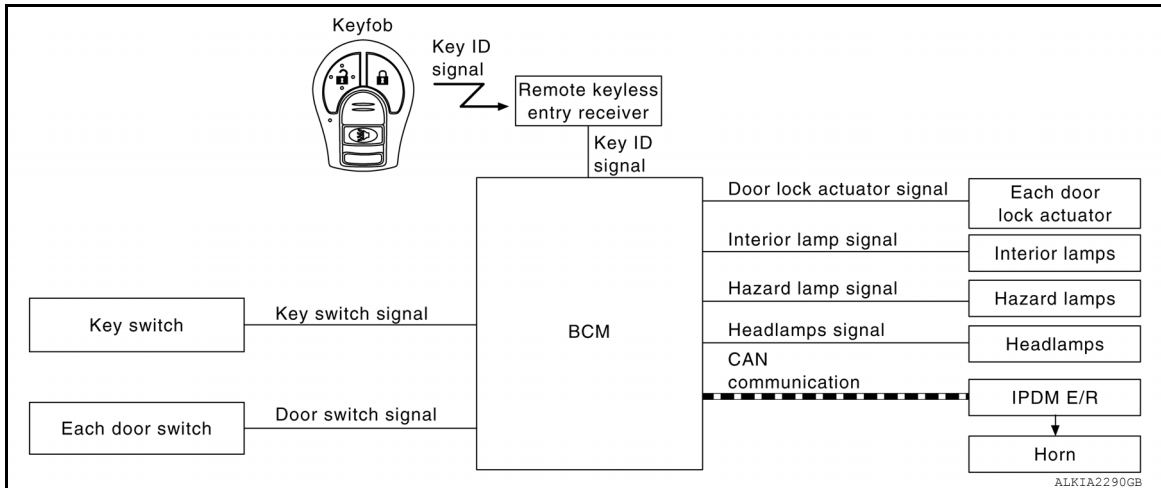
SYSTEM (POWER DOOR LOCK SYSTEM)

[WITHOUT INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

REMOTE KEYLESS ENTRY SYSTEM : System Diagram

INFOID:000000011536617



REMOTE KEYLESS ENTRY SYSTEM : System Description

INFOID:000000011536618

The remote keyless entry system can be locked and unlocked by pressing door lock and unlock button of keyfob.

DOOR LOCK AND UNLOCK OPERATION

- When door lock and unlock button of keyfob is pressed, door lock and unlock signal transmits from keyfob to BCM via remote keyless entry receiver.
- When BCM receives the door lock and unlock signal, it operates door lock actuator, flashes the hazard lamp (lock: 2 times, unlock: 1 time) and horn chirp signal to IPDM E/R at the same time as a reminder.
- IPDM E/R honks horn (lock: 1 time) as a reminder.

OPERATION CONDITION

Remote controller operation	Operation condition
Lock/unlock	Key switch is OFF. Mechanical key is removed from the ignition cylinder.

OPERATION AREA

To ensure that the keyfob works effectively, use within 10 m (33ft) range of the vehicle, however the operable range may differ according to surroundings.

SELECTIVE UNLOCK OPERATION

When door lock is unlocked, pressing LOCK button on keyfob once will lock all doors. When door lock is locked, pressing UNLOCK button on keyfob will unlock driver side door. Pressing UNLOCK button on keyfob second time within 5 seconds from the first time will unlock all doors.

HAZARD AND HORN REMINDER

When the doors are locked or unlocked by keyfob, power is supplied to sound horn and flash hazard warning lamps as a reminder

The hazard and horn reminder has C mode (horn chirp mode) and S mode (non-horn chirp mode).

How to Change Hazard and Horn Reminder Modes

Ⓟ With CONSULT

Hazard and horn reminders can be changed using "WORK SUPPORT" mode in "MULTI REMOTE ENT".

Hazard reminder setting	Mode 1		Mode 2		Mode 3		Mode 4	
	Lock	Unlock	Lock	Unlock	Lock	Unlock	Lock	Unlock
Keyfob operation	Lock	Unlock	Lock	Unlock	Lock	Unlock	Lock	Unlock
Hazard warning lamp blink	—	—	—	Once	Twice	—	Twice	Once

SYSTEM (POWER DOOR LOCK SYSTEM)

< SYSTEM DESCRIPTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

Horn reminder setting	ON		OFF	
Keyfob operation	Lock	Unlock	Lock	Unlock
Horns sound	Once	—	—	—

Hazard and horn reminders do not operate if any door switch is ON (any door is OPEN).
 Hazard reminder can be changed using "HAZARD LAMP SET" mode in "WORK SUPPORT".
 Horn reminder can be changed using "HORN CHIRP SET" mode in "WORK SUPPORT".
 Refer to [BCS-93, "MULTI REMOTE ENT : CONSULT Function \(BCM - MULTI REMOTE ENT\)"](#).

⊗ Without CONSULT

Refer to Owner's Manual for instructions.

AUTO DOOR LOCK OPERATION

When all doors are locked, ignition switch is OFF and key switch is OFF (mechanical key is removed from the ignition cylinder), doors are unlocked with keyfob button. When BCM does not receive the following signals within 1 minute, all doors are locked.

- Door switch is ON (door is opened)
- Door is locked
- Ignition switch is ON
- Key switch is ON (mechanical key is inserted in the ignition cylinder)

Auto door lock mode can be changed by "AUTO LOCK SET" mode in "WORK SUPPORT". Refer to [BCS-93, "MULTI REMOTE ENT : CONSULT Function \(BCM - MULTI REMOTE ENT\)"](#).

PANIC ALARM OPERATION

When key switch is OFF (mechanical key is removed from the ignition cylinder), BCM turns ON and OFF horn and headlamp intermittently with input of PANIC ALARM signal from keyfob.

BCM outputs to headlamps and IPDM E/R for panic alarm signal (horn signal) via CAN communication lines. The alarm automatically turns OFF after 25 seconds or when BCM receives any signal from keyfob.

Panic alarm operation mode can be changed using "PANIC ALARM SET" mode in "WORK SUPPORT".

Refer to [BCS-93, "MULTI REMOTE ENT : CONSULT Function \(BCM - MULTI REMOTE ENT\)"](#).

INTERIOR LAMP TIMER OPERATION

When the following conditions occur, remote keyless entry system turns on interior lamp for 15 seconds with input of UNLOCK signal from keyfob. For detailed description, refer to [DLK-223, "POWER DOOR LOCK SYSTEM : System Description"](#).

- Interior room lamp switch is in the DOOR position
- Door switch OFF (when all the doors are closed).

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SYSTEM (TRUNK LID OPENER SYSTEM)

< SYSTEM DESCRIPTION >

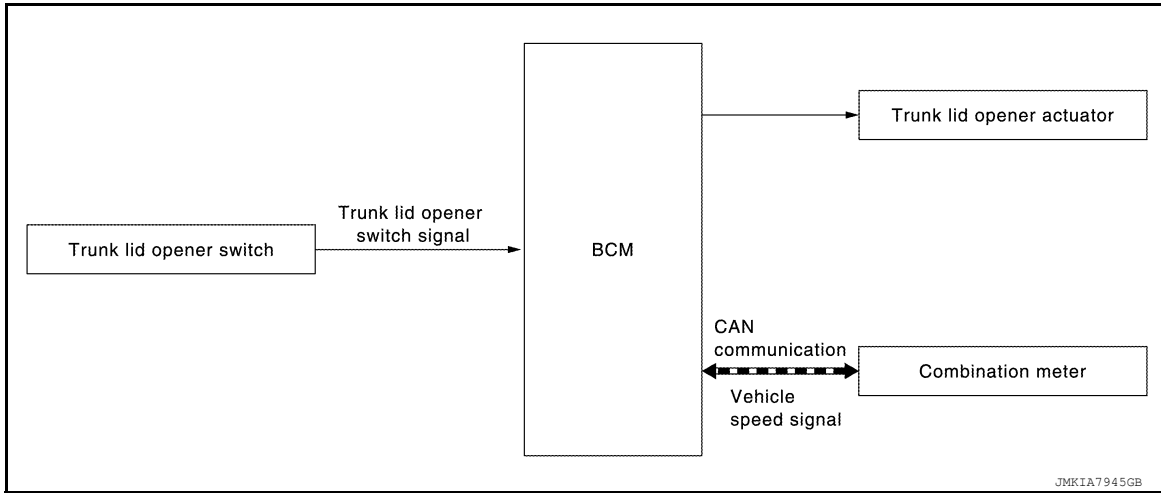
[WITHOUT INTELLIGENT KEY SYSTEM]

SYSTEM (TRUNK LID OPENER SYSTEM)

System Description

INFOID:000000011536619

System Diagram



TRUNK LID OPENER OPERATION

When trunk lid opener switch is ON, BCM operates trunk lid opener actuator.

OPERATION CONDITION

If the following conditions are satisfied, trunk open operation is performed.

Trunk lid opener switch operation	Operation condition
Trunk lid open	<ul style="list-style-type: none">• Trunk lid opener switch is ON• Vehicle speed is less than 5 km/h (3 MPH)

DIAGNOSIS SYSTEM (BCM)

[WITHOUT INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

DIAGNOSIS SYSTEM (BCM)

COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000011898034

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

Direct Diagnostic Mode	Description
ECU Identification	The BCM part number is displayed.
Self Diagnostic Result	The BCM self diagnostic results are displayed.
Data Monitor	The BCM input/output data is displayed in real time.
Active Test	The BCM activates outputs to test components.
Work support	The settings for BCM functions can be changed.
Configuration	<ul style="list-style-type: none"> The vehicle specification can be read and saved. The vehicle specification can be written when replacing BCM.
CAN DIAG SUPPORT MNTR	The result of transmit/receive diagnosis of CAN communication is displayed.

SYSTEM APPLICATION

BCM can perform the following functions.

System	Sub System	Direct Diagnostic Mode						
		ECU Identification	Self Diagnostic Result	Data Monitor	Active Test	Work support	Configuration	CAN DIAG SUPPORT MNTR
Door lock	DOOR LOCK			x	x	x		
Rear window defogger	REAR DEFOGGER			x	x			
Warning chime	BUZZER			x	x			
Interior room lamp timer	INT LAMP			x	x	x		
Remote keyless entry system	MULTI REMOTE ENT			x	x	x		
Exterior lamp	HEAD LAMP			x	x	x		
Wiper and washer	WIPER			x	x	x		
Turn signal and hazard warning lamps	FLASHER			x	x			
Air conditioner	AIR CONDITIONER			x				
Combination switch	COMB SW			x				
BCM	BCM	x	x			x	x	x
Immobilizer	IMMU		x		x	x		
Interior room lamp battery saver	BATTERY SAVER			x	x	x		
Trunk open	TRUNK			x				
RAP system	RETAINED PWR			x		x		
Signal buffer system	SIGNAL BUFFER			x				
TPMS	AIR PRESSURE MONITOR		x	x	x	x		
Panic alarm system	PANIC ALARM				x			

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DIAGNOSIS SYSTEM (BCM)

[WITHOUT INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

DOOR LOCK

DOOR LOCK : CONSULT Function (BCM - DOOR LOCK)

INFOID:000000011898036

DATA MONITOR

Monitor Item [Unit]	Description
IGN ON SW [On/Off]	Indicates condition of ignition switch ON position.
KEY ON SW [On/Off]	Indicates condition of key switch.
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch.
CDL UNLOCK SW [On/Off]	Indicates condition of unlock signal from door lock and unlock switch.
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.
DOOR SW-RR [On/Off]	Indicates condition of rear door switch RH.
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.
ACC ON SW [On/Off]	Indicates condition of ignition switch ACC position.
KEYLESS LOCK [On/Off]	Indicates condition of lock signal from keyfob.
KEYLESS UNLOCK [On/Off]	Indicates condition of unlock signal from keyfob.
KEY CYL LK-SW [On/Off]	Indicates condition of lock signal from door key cylinder switch.
KEY CYL UN-SW [On/Off]	Indicates condition of unlock signal from door key cylinder switch.
VEHICLE SPEED [km/h/mph]	Indicates vehicle speed signal received from combination meter on CAN communication line.

ACTIVE TEST

Test Item	Description
DOOR LOCK	This test is able to check door lock operation [OTR ULK/DR UNLK/ALL UNLK/ALL LCK].

WORK SUPPORT

Support Item	Setting	Description
DOOR LOCK-UNLOCK SET	On*	Automatic door locks function ON.
	Off	Automatic door locks function OFF.
AUTOMATIC DOOR LOCK SELECT	P RANGE	Doors lock automatically when shifted out of Park (P).
	VH SPD*	Doors lock automatically when vehicle speed reaches 24 km/h (15 mph).
AUTOMATIC DOOR UNLOCK SELECT	MODE6*	Drivers door unlocks automatically when key is removed.
	MODE5	Drivers door unlocks automatically when shifted into Park (P).
	MODE4	Drivers door unlocks automatically when ignition is switched from ON to OFF.
	MODE3	Doors unlock automatically when key is removed.
	MODE2	Doors unlock automatically when shifted into Park (P).
AUTOMATIC LOCK/UNLOCK SELECT	MODE1	Doors unlock automatically when ignition is switched from ON to OFF.
	Lock/Unlock*	Automatic door locks function operates in lock and unlock.
	Lock Only	Automatic door locks function operates in lock only.
	Unlock Only	Automatic door locks function operates in unlock only.
	Off	Automatic door locks function OFF.

* : Initial setting

TRUNK

TRUNK : CONSULT Function (BCM - TRUNK)

INFOID:000000011898038

DATA MONITOR

DIAGNOSIS SYSTEM (BCM)

[WITHOUT INTELLIGENT KEY SYSTEM]

< SYSTEM DESCRIPTION >

Monitor Item [Unit]	Description
KEY ON SW [On/Off]	Indicates condition of key switch.
IGN ON SW [On/Off]	Indicates condition of ignition switch ON position.
VEHICLE SPEED [km/h/mph]	Indicates vehicle speed signal received from combination meter on CAN communication line.

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< ECU DIAGNOSIS INFORMATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

ECU DIAGNOSIS INFORMATION

BCM

List of ECU Reference

INFOID:000000011536623

ECU	Reference
BCM	BCS-101, "Reference Value"
	BCS-112, "Fail-safe"
	BCS-113, "DTC Inspection Priority Chart"
	BCS-113, "DTC Index"

REMOTE KEYLESS ENTRY SYSTEM

[WITHOUT INTELLIGENT KEY SYSTEM]

< WIRING DIAGRAM >

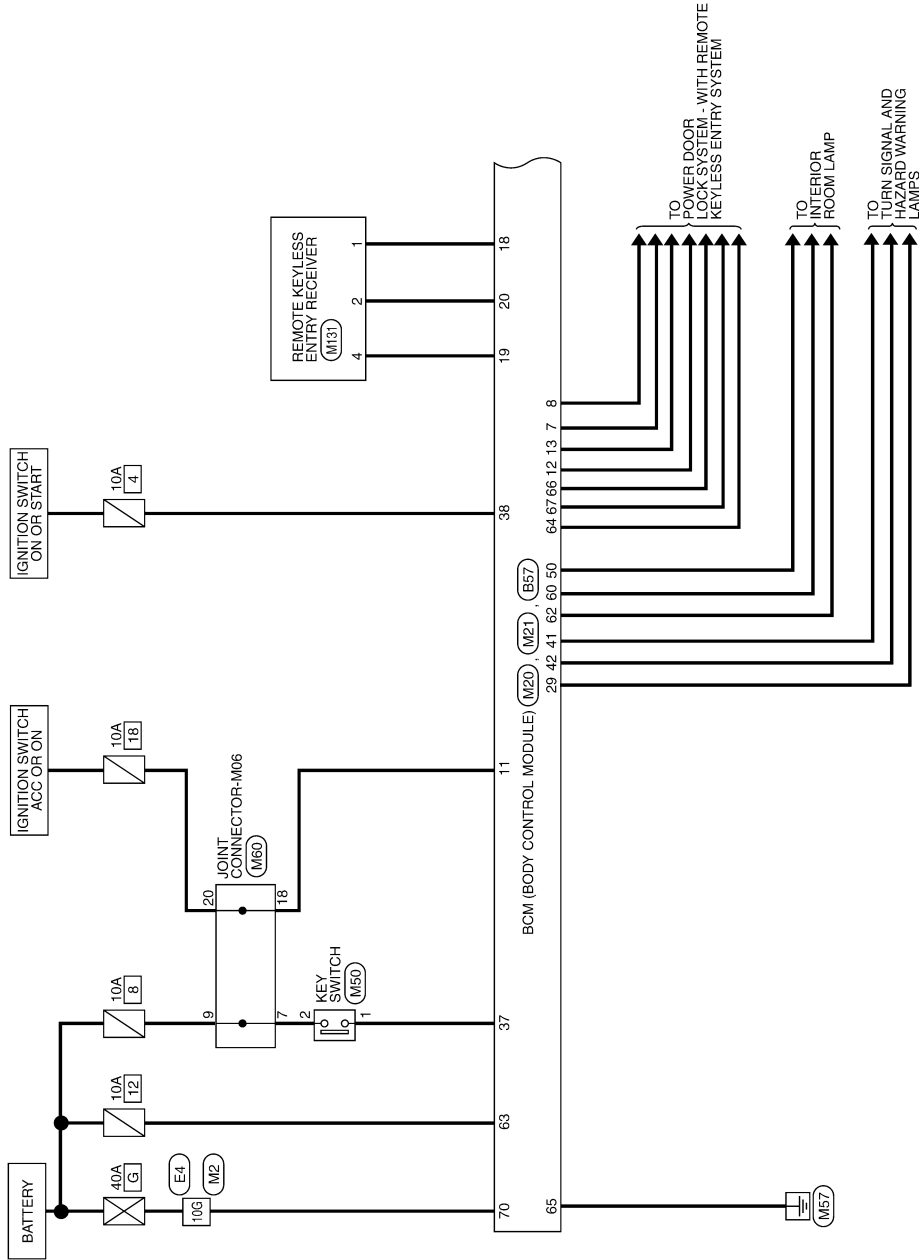
WIRING DIAGRAM

REMOTE KEYLESS ENTRY SYSTEM

Wiring Diagram

INFOID:000000011536624

REMOTE KEYLESS ENTRY SYSTEM



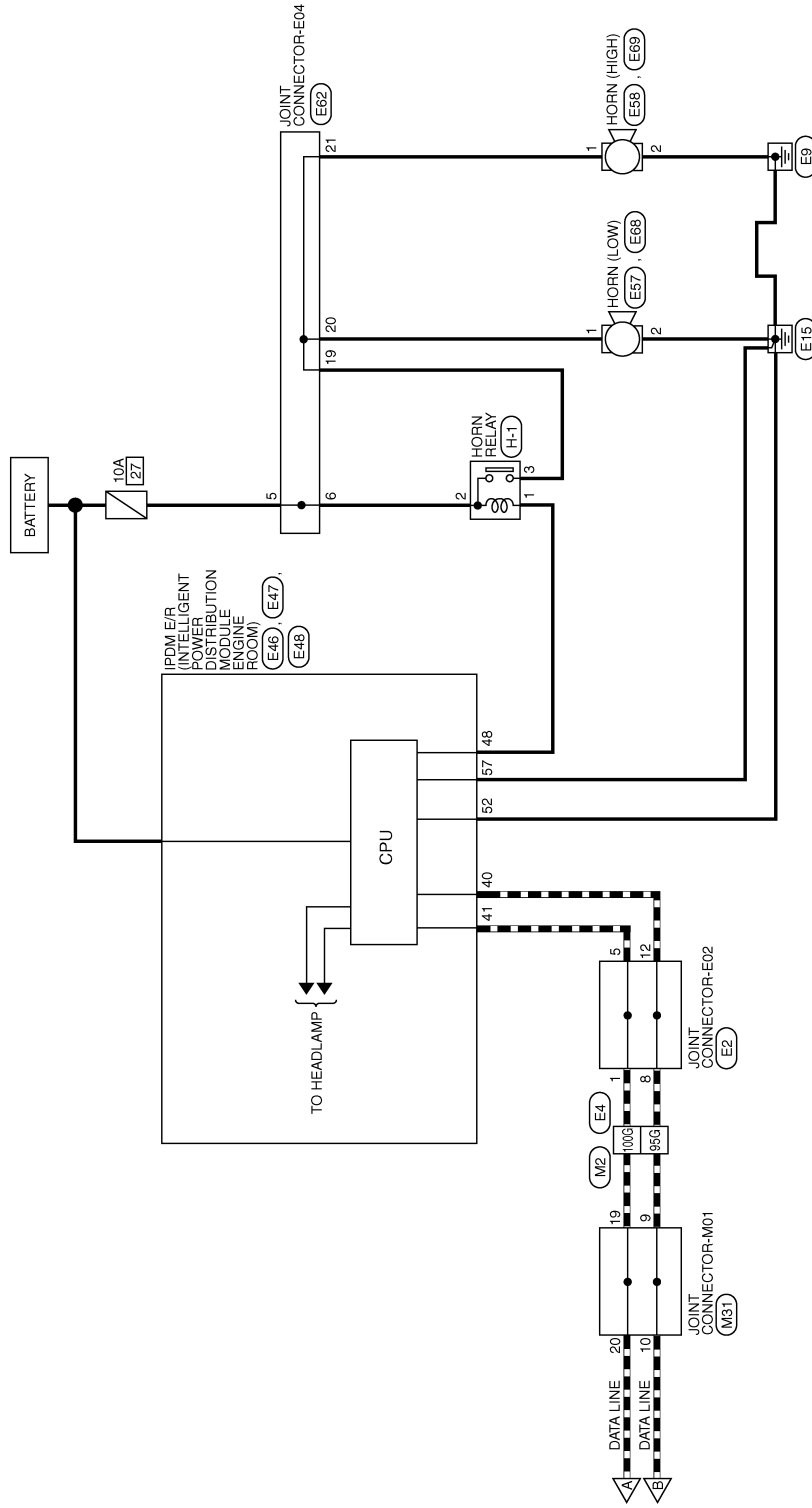
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REMOTE KEYLESS ENTRY SYSTEM

[WITHOUT INTELLIGENT KEY SYSTEM]

< WIRING DIAGRAM >



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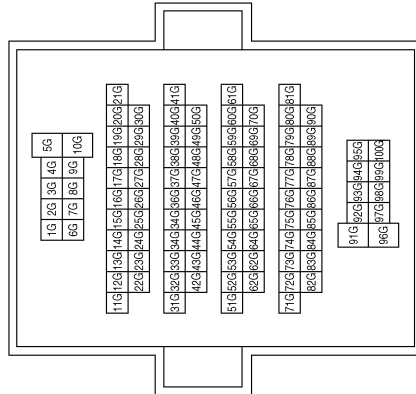
REMOTE KEYLESS ENTRY SYSTEM

[WITHOUT INTELLIGENT KEY SYSTEM]

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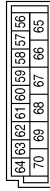
REMOTE KEYLESS ENTRY SYSTEM CONNECTORS

Connector No.	M2
Connector Name	WIRE TO WIRE
Connector Color	WHITE



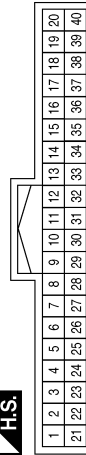
Terminal No.	Color of Wire	Signal Name
10G	Y	-
95G	P	-
100G	L	-

Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY SYSTEM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
60	BR	ROOM LAMP OUTPUT
62	P	BATTERY SAVER OUTPUT
63	O	BATTERY (FUSE)
64	SB	DOOR UNLOCK OUTPUT (DR)
65	B	GND
66	O	DOOR LOCK OUTPUT
67	SB	DOOR UNLOCK OUTPUT (AS,RR,RL)
70	Y	BATTERY (F/L)

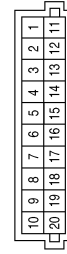
Connector No.	M21
Connector Name	BCM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY SYSTEM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
7	L	KEY CYLINDER UNLOCK SW
8	V	KEY CYLINDER LOCK SW
11	G	ACC SW

Terminal No.	Color of Wire	Signal Name
12	GR	CENTRAL DOOR LOCK SW
13	BR	CENTRAL DOOR UNLOCK SW
18	V	KEYLESS & AUTO LIGHT SENSOR GND
19	BR	KEYLESS TUNER POWER SUPPLY
20	LG	KEYLESS TUNER SIGNAL
29	SB	HAZARD SW
37	GR	KEY SW
38	R	IGN SW
39	L	CAN-H
40	P	CAN-L

Connector No.	M31
Connector Name	JOINT CONNECTOR-M01
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
9	P	-
10	P	-
19	L	-
20	L	-

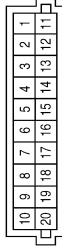
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REMOTE KEYLESS ENTRY SYSTEM

[WITHOUT INTELLIGENT KEY SYSTEM]

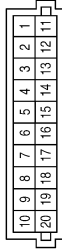
< WIRING DIAGRAM >

Connector No.	M60
Connector Name	JOINT CONNECTOR-M06
Connector Color	BLUE



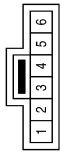
Terminal No.	Color of Wire	Signal Name
7	BR	-
9	W	-
18	G	-
20	L	-

Connector No.	M53
Connector Name	JOINT CONNECTOR-M03
Connector Color	PINK



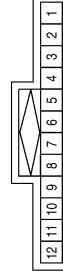
Terminal No.	Color of Wire	Signal Name
14	P	-
15	P	-
19	L	-
20	L	-

Connector No.	M50
Connector Name	KEY SWITCH
Connector Color	GRAY



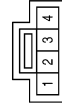
Terminal No.	Color of Wire	Signal Name
1	GR	-
2	BR	-

Connector No.	E2
Connector Name	JOINT CONNECTOR-E02
Connector Color	BLUE



Terminal No.	Color of Wire	Signal Name
1	L	-
5	L	-
8	P	-
12	P	-

Connector No.	M131
Connector Name	REMOTE KEYLESS ENTRY RECEIVER (WITHOUT INTELLIGENT KEY SYSTEM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	V	-
2	LG	-
4	BR	-

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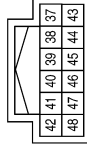
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REMOTE KEYLESS ENTRY SYSTEM

[WITHOUT INTELLIGENT KEY SYSTEM]

< WIRING DIAGRAM >

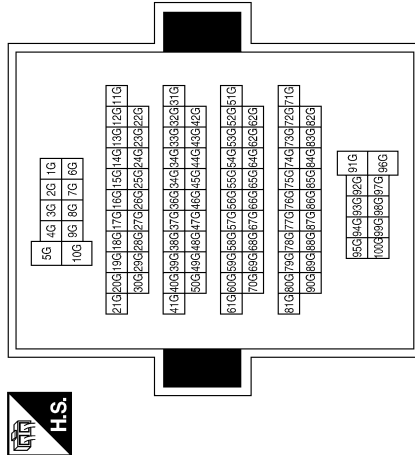
Connector No.	E46
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
40	P	CAN-L
41	L	CAN-H
48	L	HORN RLY CONT

Terminal No.	Color of Wire	Signal Name
10G	G	-
95G	P	-
100G	L	-

Connector No.	E4
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Connector No.	E57
Connector Name	HORN (LOW)
Connector Color	BLACK



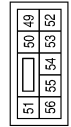
Terminal No.	Color of Wire	Signal Name
1	G	-

Connector No.	E48
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
57	B/Y	GND (POWER)

Connector No.	E47
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	BROWN



Terminal No.	Color of Wire	Signal Name
52	B/Y	GND (SIGNAL)

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REMOTE KEYLESS ENTRY SYSTEM

[WITHOUT INTELLIGENT KEY SYSTEM]

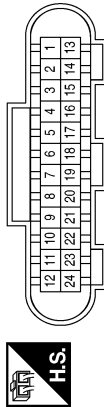
< WIRING DIAGRAM >

Connector No.	E68
Connector Name	HORN (HIGH)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
2	BY	-

Connector No.	E62
Connector Name	JOINT CONNECTOR-E04
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
5	BR	-
6	BR	-
19	G	-
20	G	-
21	G	-

Connector No.	E58
Connector Name	HORN (HIGH)
Connector Color	BLACK



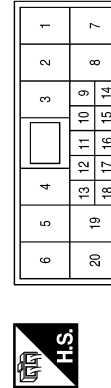
Terminal No.	Color of Wire	Signal Name
1	G	-

Connector No.	B21
Connector Name	FRONT DOOR SWITCH LH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	Y	-

Connector No.	B6
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
13	V	-
19	GR	-
20	B	-

Connector No.	E69
Connector Name	HORN (HIGH)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
2	B/W	-

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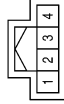
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REMOTE KEYLESS ENTRY SYSTEM

[WITHOUT INTELLIGENT KEY SYSTEM]

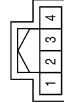
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Connector No.	B41
Connector Name	REAR DOOR SWITCH RH
Connector Color	WHITE



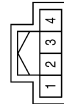
Terminal No.	Color of Wire	Signal Name
3	P	-

Connector No.	B28
Connector Name	FRONT DOOR SWITCH RH
Connector Color	WHITE



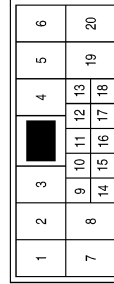
Terminal No.	Color of Wire	Signal Name
3	R	-

Connector No.	B26
Connector Name	REAR DOOR SWITCH LH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	GR	-

Connector No.	B93
Connector Name	WIRE TO WIRE
Connector Color	WHITE



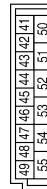
Terminal No.	Color of Wire	Signal Name
13	R	-
19	GR	-
20	B	-

Connector No.	B59
Connector Name	TRUNK LID OPENER ASSEMBLY
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	R	-
2	B	-
3	GR	-

Connector No.	B57
Connector Name	BCM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY SYSTEM)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
41	LG	FLASHER OUTPUT (LEFT)
42	O	FLASHER OUTPUT (RIGHT)
45	R	DOOR SW (AS)
46	Y	DOOR SW (DR)
47	GR	DOOR SW (RL)
48	P	DOOR SW (RR)
50	LG	LUGGAGE LAMP OUTPUT
51	V	TRUNK SW
55	GR	TRUNK OPEN OUTPUT

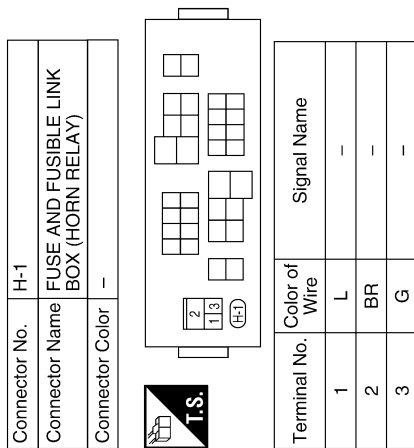
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REMOTE KEYLESS ENTRY SYSTEM

< WIRING DIAGRAM >

[WITHOUT INTELLIGENT KEY SYSTEM]

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POWER DOOR LOCK SYSTEM

[WITHOUT INTELLIGENT KEY SYSTEM]

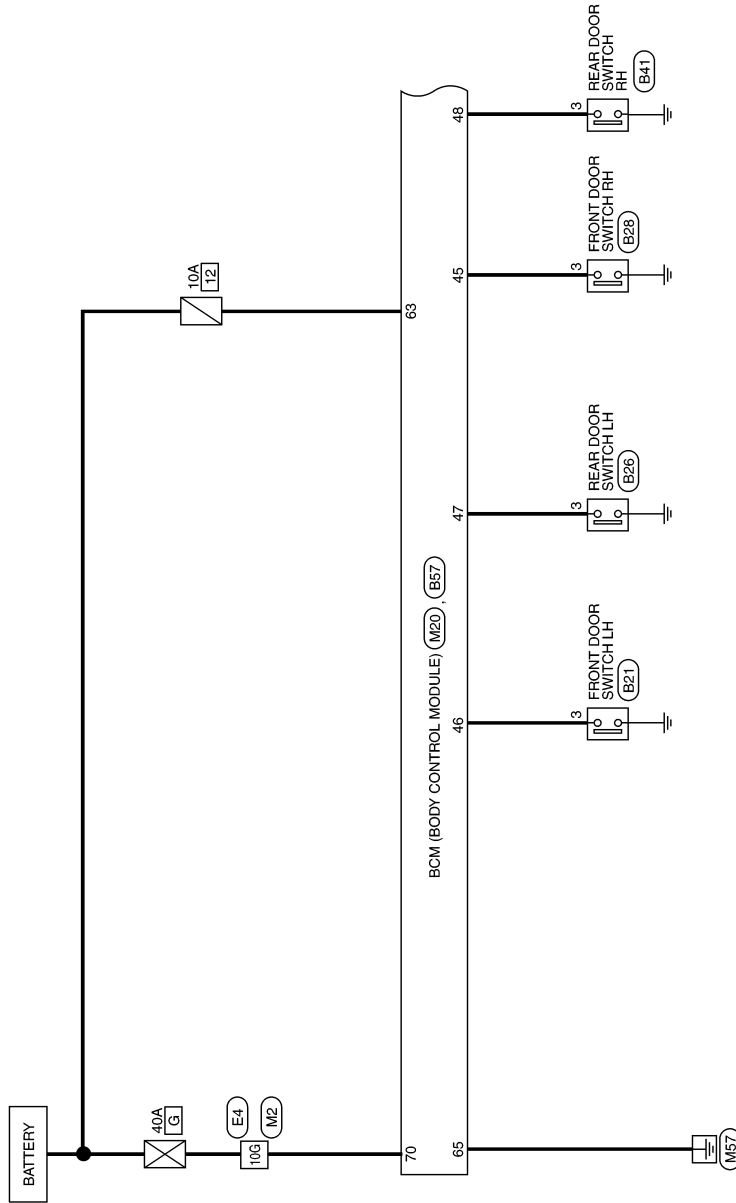
< WIRING DIAGRAM >

POWER DOOR LOCK SYSTEM

Wiring Diagram

INFOID:000000011536625

POWER DOOR LOCK SYSTEM - WITH REMOTE KEYLESS ENTRY SYSTEM

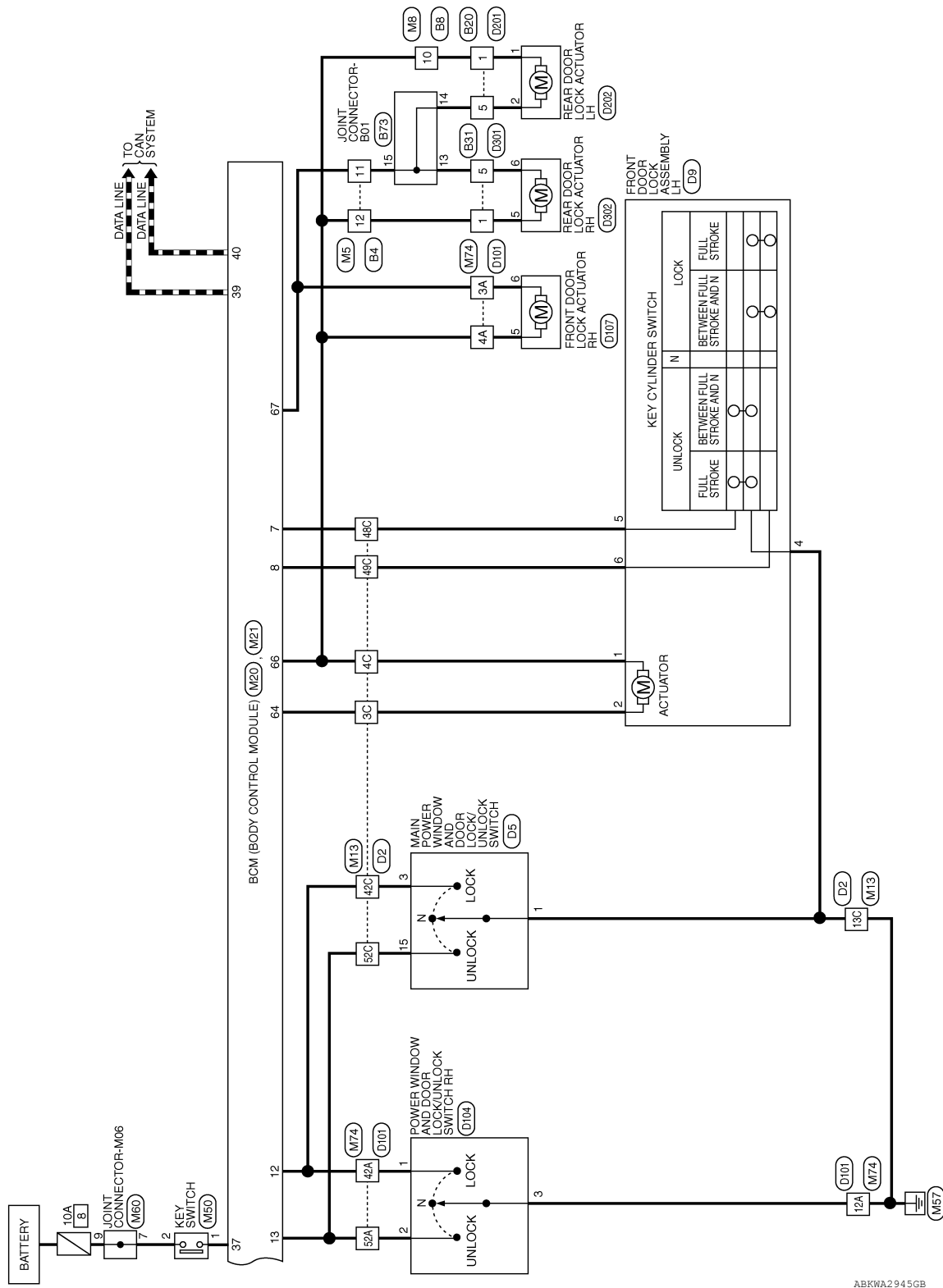


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POWER DOOR LOCK SYSTEM

[WITHOUT INTELLIGENT KEY SYSTEM]

< WIRING DIAGRAM >



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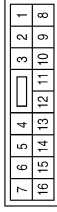
POWER DOOR LOCK SYSTEM

[WITHOUT INTELLIGENT KEY SYSTEM]

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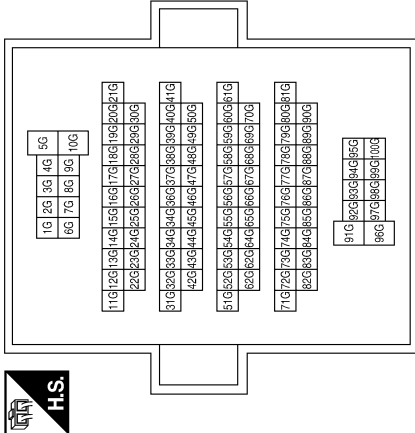
POWER DOOR LOCK SYSTEM CONNECTORS - WITH REMOTE KEYLESS ENTRY SYSTEM

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
10G	Y	-

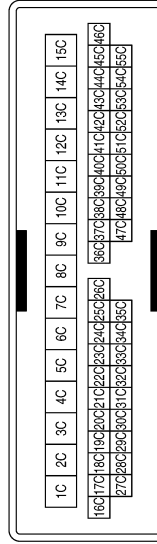
Connector No.	M2
Connector Name	WIRE TO WIRE
Connector Color	WHITE



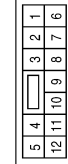
Terminal No.	Color of Wire	Signal Name
11	SB	-
12	O	-

Terminal No.	Color of Wire	Signal Name
3C	SB	-
4C	O	-
13C	B	-
42C	GR	-
48C	L	-
49C	V	-
52C	BR	-

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Connector No.	M8
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
10	O	-

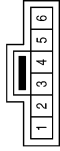
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POWER DOOR LOCK SYSTEM

[WITHOUT INTELLIGENT KEY SYSTEM]

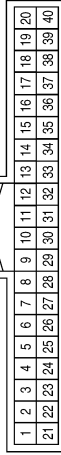
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Connector No.	M50
Connector Name	KEY SWITCH
Connector Color	GRAY



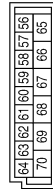
Terminal No.	Color of Wire	Signal Name
1	GR	-
2	BR	-

Connector No.	M21
Connector Name	BCM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY SYSTEM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
7	L	KEY CYLINDER UNLOCK SW
8	V	KEY CYLINDER LOCK SW
12	GR	CENTRAL DOOR LOCK SW
13	BR	CENTRAL DOOR UNLOCK SW
37	GR	KEY SW
39	L	CAN-H
40	P	CAN-L

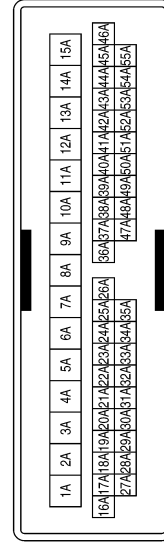
Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY SYSTEM)
Connector Color	WHITE



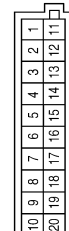
Terminal No.	Color of Wire	Signal Name
63	O	BATTERY (FUSE)
64	SB	DOOR UNLOCK OUTPUT (DR)
65	B	GND
66	O	DOOR LOCK OUTPUT
67	SB	DOOR UNLOCK OUTPUT (AS,RR,RL)
70	Y	BATTERY (F/L)

Terminal No.	Color of Wire	Signal Name
3A	SB	-
4A	O	-
12A	B	-
42A	GR	-
52A	BR	-

Connector No.	M74
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Connector No.	M60
Connector Name	JOINT CONNECTOR-M06
Connector Color	BLUE



Terminal No.	Color of Wire	Signal Name
7	BR	-
9	W	-

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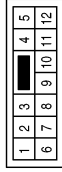
DLK

POWER DOOR LOCK SYSTEM

[WITHOUT INTELLIGENT KEY SYSTEM]

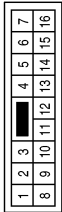
< WIRING DIAGRAM >

Connector No.	B8
Connector Name	WIRE TO WIRE
Connector Color	WHITE



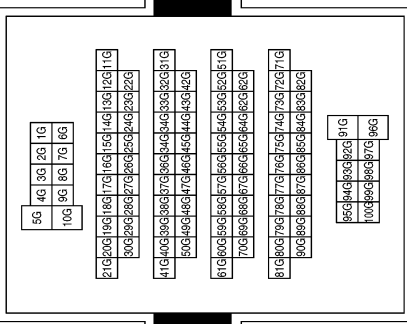
Terminal No.	10	Color of Wire	V	Signal Name	-
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Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	11	Color of Wire	G	Signal Name	-
Terminal No.	12	Color of Wire	SB	Signal Name	-

Connector No.	E4
Connector Name	WIRE TO WIRE
Connector Color	WHITE



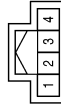
Terminal No.	10G	Color of Wire	G	Signal Name	-
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Connector No.	B26
Connector Name	REAR DOOR SWITCH LH
Connector Color	WHITE



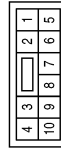
Terminal No.	3	Color of Wire	GR	Signal Name	-
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Connector No.	B21
Connector Name	FRONT DOOR SWITCH LH
Connector Color	WHITE



Terminal No.	3	Color of Wire	Y	Signal Name	-
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Connector No.	B20
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	1	Color of Wire	V	Signal Name	-
Terminal No.	5	Color of Wire	Y	Signal Name	-

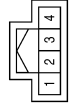
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POWER DOOR LOCK SYSTEM

[WITHOUT INTELLIGENT KEY SYSTEM]

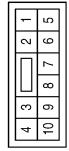
< WIRING DIAGRAM >

Connector No.	B41
Connector Name	REAR DOOR SWITCH RH
Connector Color	WHITE



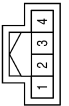
Terminal No.	Color of Wire	Signal Name
3	P	-

Connector No.	B31
Connector Name	WIRE TO WIRE
Connector Color	WHITE



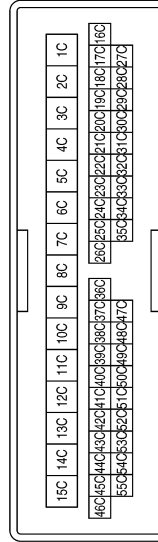
Terminal No.	Color of Wire	Signal Name
1	SB	-
5	P	-

Connector No.	B28
Connector Name	FRONT DOOR SWITCH RH
Connector Color	WHITE



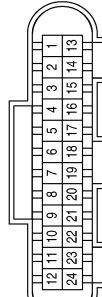
Terminal No.	Color of Wire	Signal Name
3	R	-

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Color	WHITE



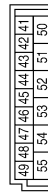
Terminal No.	Color of Wire	Signal Name
3C	L	-
4C	BR	-
13C	B	-
42C	L	-
48C	Y	-
49C	R	-
52C	BR	-

Connector No.	B73
Connector Name	JOINT CONNECTOR-B01
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
13	P	-
14	Y	-
15	G	-

Connector No.	B57
Connector Name	BCM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY SYSTEM)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
45	R	DOOR SW (AS)
46	Y	DOOR SW (DR)
47	GR	DOOR SW (RL)
48	P	DOOR SW (RR)

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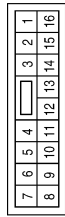
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POWER DOOR LOCK SYSTEM

[WITHOUT INTELLIGENT KEY SYSTEM]

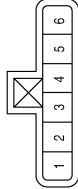
< WIRING DIAGRAM >

Connector No.	D5
Connector Name	MAIN POWER WINDOW AND DOOR LOCK/ UNLOCK SWITCH
Connector Color	WHITE



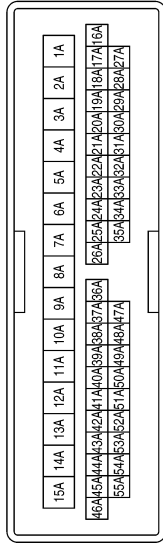
Terminal No.	Color of Wire	Signal Name
1	B	GND
3	L	LOCK SW
15	BR	UNLOCK SW

Connector No.	D9
Connector Name	FRONT DOOR LOCK ASSEMBLY LH
Connector Color	GRAY



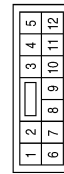
Terminal No.	Color of Wire	Signal Name
1	BR	-
2	L	-
4	B	-
5	Y	-
6	R	-

Connector No.	D101
Connector Name	WIRE TO WIRE
Connector Color	WHITE



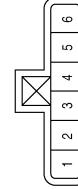
Terminal No.	Color of Wire	Signal Name
3A	Y	-
4A	V	-
12A	B	-
42A	Y	-
52A	BR	-

Connector No.	D104
Connector Name	POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH
Connector Color	WHITE



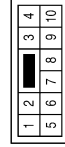
Terminal No.	Color of Wire	Signal Name
1	Y	-
2	BR	-
3	B	-

Connector No.	D107
Connector Name	FRONT DOOR LOCK ACTUATOR RH
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
5	V	-
6	Y	-

Connector No.	D201
Connector Name	WIRE TO WIRE
Connector Color	WHITE



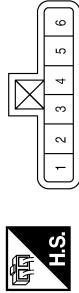
Terminal No.	Color of Wire	Signal Name
1	V	-
5	G	-

POWER DOOR LOCK SYSTEM

[WITHOUT INTELLIGENT KEY SYSTEM]

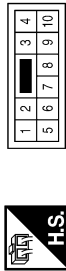
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Connector No.	D302
Connector Name	REAR DOOR LOCK ACTUATOR RH
Connector Color	GRAY



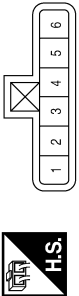
Terminal No.	Color of Wire	Signal Name
5	V	-
6	G	-

Connector No.	D301
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	V	-
5	G	-

Connector No.	D202
Connector Name	REAR DOOR LOCK ACTUATOR LH
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
1	V	-
2	G	-

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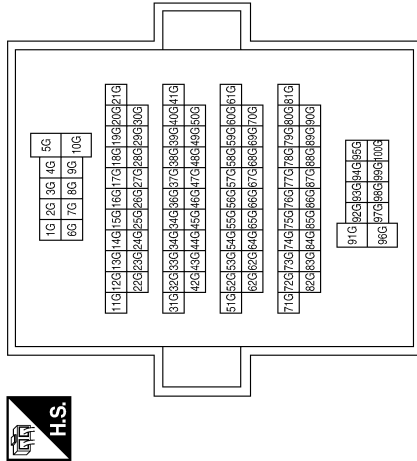
TRUNK LID OPENER

[WITHOUT INTELLIGENT KEY SYSTEM]

< WIRING DIAGRAM >

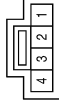
TRUNK LID OPENER CONNECTORS

Connector No.	M2
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
10G	Y	-

Connector No.	M15
Connector Name	TRUNK LID OPENER SWITCH
Connector Color	WHITE

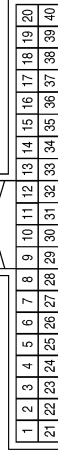


Terminal No.	Color of Wire	Signal Name
1	L	-
2	B	-

Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY SYSTEM)
Connector Color	WHITE

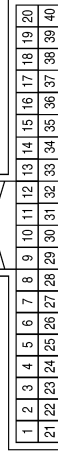


Connector No.	M21
Connector Name	BCM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY SYSTEM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
65	B	GND
70	Y	BATT (F/L)

Connector No.	M84
Connector Name	BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY SYSTEM)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
30	L	TRUNK/BACK DOOR OPENER SW

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TRUNK LID OPENER

[WITHOUT INTELLIGENT KEY SYSTEM]

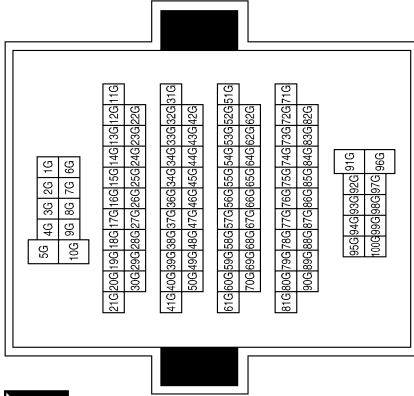
< WIRING DIAGRAM >

Connector No.	M85
Connector Name	BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY SYSTEM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
90	Y	BATTERY (F/L)
93	B	GND

Connector No.	E4
Connector Name	WIRE TO WIRE
Connector Color	WHITE



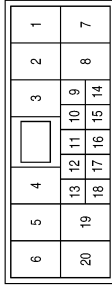
Terminal No.	Color of Wire	Signal Name
10G	G	-

Connector No.	B14
Connector Name	TRUNK OPENER REQUEST SWITCH
Connector Color	BROWN



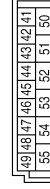
Terminal No.	Color of Wire	Signal Name
1	Y	-
2	B	-

Connector No.	B6
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
13	V	-
18	SB	-
19	GR	-
20	B	-

Connector No.	B57
Connector Name	BCM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY SYSTEM)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
51	V	TRUNK SW
55	GR	TRUNK OPEN OUTPUT

ABKIA5400GB

TRUNK LID OPENER

[WITHOUT INTELLIGENT KEY SYSTEM]

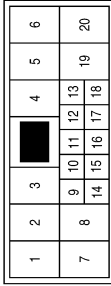
< WIRING DIAGRAM >

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Connector No.	B59
Connector Name	TRUNK LID OPENER ASSEMBLY
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	R	-
2	B	-
3	GR	-



Terminal No.	Color of Wire	Signal Name
13	R	-
18	Y	-
19	GR	-
20	B	-

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

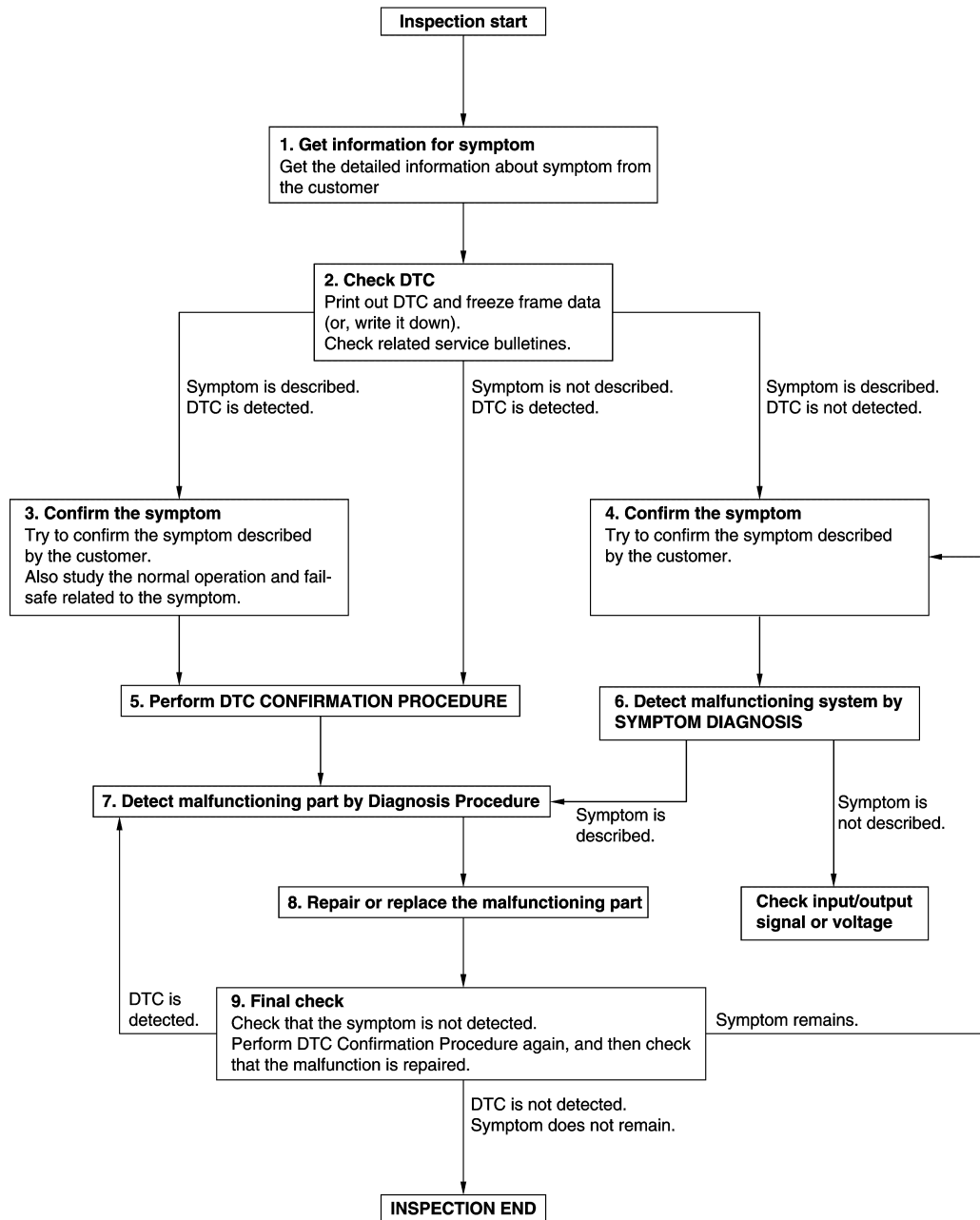
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORK FLOW

Work Flow

INFOID:000000011536627

OVERALL SEQUENCE



JMKIA8652GB

DETAILED FLOW

Revision: December 2014

DLK-252

2015 Sentra NAM

DIAGNOSIS AND REPAIR WORK FLOW

[WITHOUT INTELLIGENT KEY SYSTEM]

< BASIC INSPECTION >

1. GET INFORMATION FOR SYMPTOM

1. Get detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurs).
2. Check operation condition of the function that is malfunctioning.

>> GO TO 2.

2. CHECK DTC

1. Check DTC.
2. Perform the following procedure if DTC is detected.
 - Record DTC and freeze frame data (Print them out using CONSULT.)
 - Erase DTC.
 - Study the relationship between the cause detected by DTC and the symptom described by the customer.
3. Check related service bulletins for information.

Are any symptoms described and any DTC detected?

Symptom is described, DTC is detected>>GO TO 3.

Symptom is described, DTC is not detected>>GO TO 4.

Symptom is not described, DTC is detected>>GO TO 5.

3. CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

Also study the normal operation and fail-safe related to the symptom.

Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 5.

4. CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer.

Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 6.

5. PERFORM DTC CONFIRMATION PROCEDURE

Perform DTC CONFIRMATION PROCEDURE for the detected DTC, and then check that DTC is detected again. At this time, always connect CONSULT to the vehicle, and check self diagnostic results in real time.

If two or more DTCs are detected, refer to [BCS-113. "DTC Inspection Priority Chart"](#) and determine trouble diagnosis order.

NOTE:

- Freeze frame data is useful if the DTC is not detected.
- Perform Component Function Check if DTC CONFIRMATION PROCEDURE is not included on Service Manual. This simplified check procedure is an effective alternative though DTC cannot be detected during this check.

If the result of Component Function Check is NG, it is the same as the detection of DTC by DTC CONFIRMATION PROCEDURE.

Is DTC detected?

YES >> GO TO 7.

NO >> Check according to [GI-40. "Intermittent Incident"](#).

6. 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.

Is the symptom described?

YES >> GO TO 7.

NO >> Monitor input data from related sensors or check voltage of related module terminals using CONSULT.

7. DETECT MALFUNCTIONING PART BY DIAGNOSIS PROCEDURE

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DLK

DIAGNOSIS AND REPAIR WORK FLOW

< BASIC INSPECTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

Inspect according to Diagnosis Procedure of the system.

Is malfunctioning part detected?

YES >> GO TO 8.

NO >> Check according to [GI-40. "Intermittent Incident"](#).

8. REPAIR OR REPLACE THE MALFUNCTIONING PART

1. Repair or replace the malfunctioning part.
2. Reconnect parts or connectors disconnected during Diagnosis Procedure again after repair and replacement.
3. Check DTC. If DTC is detected, erase it.

>> GO TO 9.

9. FINAL CHECK

When DTC is detected in step 2, perform DTC CONFIRMATION PROCEDURE again, and then check that the malfunction is repaired securely.

When symptom is described by the customer, refer to confirmed symptom in step 3 or 4, and check that the symptom is not detected.

Is DTC detected and does symptom remain?

YES-1 >> DTC is detected: GO TO 7.

YES-2 >> Symptom remains: GO TO 4.

NO >> Before returning the vehicle to the customer, always erase DTC.

KEYFOB ID REGISTRATION

< BASIC INSPECTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

KEYFOB ID REGISTRATION

Description

INFOID:0000000011536628

Perform the following procedure after BCM is replaced or when new keyfob ID is registered

NOTE:

When registering the keyfob ID, perform only one procedure to simultaneously register both ID (IMMOBILIZER ID and keyfob ID).

Work Procedure

INFOID:0000000011536629

1. STEP 1

Close all doors.

>> GO TO 2.

2. STEP 2

Perform lock operation by door lock and unlock switch.

>> GO TO 3.

3. STEP 3

1. Remove and insert the key into the ignition key cylinder 6 times within 10 seconds (turning the key switch from OFF to ON counts as 1 time).
2. All doors unlock automatically.

NOTE:

On the sixth key insertion, keep the key in the ignition key cylinder with the key switch ON.

Do all unlock automatically?

- YES >> GO TO 4.
NO >> GO TO 1.

4. STEP 4

Turn ignition switch to ACC within 3 seconds after all doors unlock and perform lock operation by door lock and unlock switch.

>> GO TO 5.

5. STEP 5

1. Press the lock or unlock button of the keyfob to be added.
2. All doors unlock simultaneously.
3. Key ID is registered.

Is key ID registered?

- YES-1 >> When adding a keyfob: GO TO 6.
YES-2 >> When ending registration: GO TO 8.
NO >> GO TO 1.

6. STEP 6

Perform lock operation by door lock and unlock switch.

>> GO TO 7.

7. STEP 7

1. Press the lock or unlock button of the keyfob to be added.
2. All doors unlock simultaneously.
3. Key ID is registered.

Is key ID registered?

- YES-1 >> When adding a keyfob: GO TO 6.

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KEYFOB ID REGISTRATION

< BASIC INSPECTION >

[WITHOUT INTELLIGENT KEY SYSTEM]

YES-2 >> When ending registration: GO TO 8.

NO >> GO TO 6.

8. STEP 8

Open the driver door.

>> REGISTRATION END

U1000 CAN COMM

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

DTC/CIRCUIT DIAGNOSIS

U1000 CAN COMM

Description

INFOID:0000000011536630

Refer to [LAN-7, "CAN COMMUNICATION SYSTEM : System Description"](#).

DTC Logic

INFOID:0000000011536631

DTC DETECTION LOGIC

NOTE:

U1000 can be set if a module harness was disconnected and reconnected, perhaps during a repair. Confirm that there are actual CAN diagnostic symptoms and a present DTC by performing the Self Diagnostic Result procedure.

CONSULT Display	DTC Detection Condition	Possible Cause
CAN COMM CIRCUIT [U1000]	When any listed module cannot communicate with CAN communication signal continuously for 2 seconds or more with ignition switch ON	In CAN communication system, any item (or items) of the following listed below is malfunctioning. <ul style="list-style-type: none">• Transmission• Receiving (ECM)• Receiving (VDC/TCS/ABS)• Receiving (METER/M&A)• Receiving (TCM)• Receiving (IPDM E/R)

Diagnosis Procedure

INFOID:0000000011536632

1. PERFORM SELF DIAGNOSTIC RESULT

1. Turn ignition switch ON and wait for 2 second or more.
2. Check "SELF- DIAG RESULTS".

Is "CAN COMM CIRCUIT" displayed?

- YES >> Perform CAN Diagnosis as described in DIAGNOSIS section of CONSULT operation manual.
NO >> Refer to [GI-40, "Intermittent Incident"](#).

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U1010 CONTROL UNIT (CAN)

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

U1010 CONTROL UNIT (CAN)

DTC Logic

INFOID:000000011536633

DTC DETECTION LOGIC

CONSULT Display	DTC Detection Condition	Possible Cause
CONTROL UNIT (CAN) [U1010]	BCM detected internal CAN communication circuit malfunction.	BCM

Diagnosis Procedure

INFOID:000000011536634

1. REPLACE BCM

When DTC "U1010" is detected, replace BCM.

>> Replace BCM. Refer to [BCS-133. "Removal and Installation"](#).

POWER SUPPLY AND GROUND CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

POWER SUPPLY AND GROUND CIRCUIT

Diagnosis Procedure

INFOID:0000000011898046

Regarding Wiring Diagram information, refer to [BCS-115. "Wiring Diagram"](#).

1. CHECK FUSES AND FUSIBLE LINK

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

Terminal No.	Signal name	Fuses and fusible link No.
63	Battery power supply	12 (10A)
70		G (40A)
11	Ignition switch ACC or ON	18 (10A)

Is the fuse blown?

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

NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT

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

BCM		Ground	Ignition switch position		
Connector	Terminal		OFF	ACC	ON
M20	63	—	Battery voltage	Battery voltage	Battery voltage
	70				
M21	11	—	0 V	Battery voltage	Battery voltage

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair harness or connector.

3. CHECK GROUND CIRCUIT

Check continuity between BCM connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M20	65	—	Yes

Is the inspection result normal?

YES >> Inspection End.

NO >> Repair harness or connector.

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DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

DOOR SWITCH

Description

INFOID:0000000011536636

Detects door open/close condition.

Component Function Check

INFOID:0000000011536637

1. CHECK FUNCTION

With CONSULT

Check door switches DOOR SW-DR, DOOR SW-AS, DOOR SW-RL, DOOR SW-RR in Data Monitor mode with CONSULT.

Monitor item	Condition
DOOR SW-DR	CLOSE → OPEN: OFF → ON
DOOR SW-AS	
DOOR SW-RL	
DOOR SW-RR	

Is the inspection result normal?

- YES >> Door switch is OK.
- NO >> Refer to [DLK-260, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000011536638

Regarding Wiring Diagram information, refer to [DLK-231, "Wiring Diagram"](#).

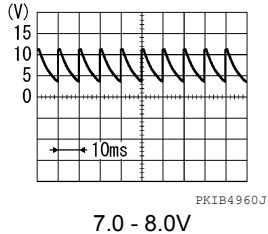
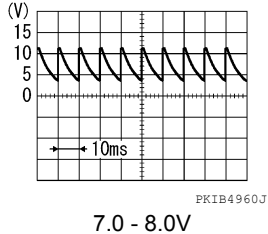
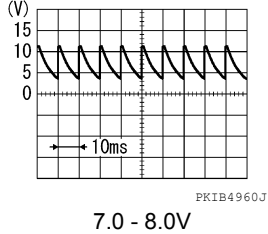
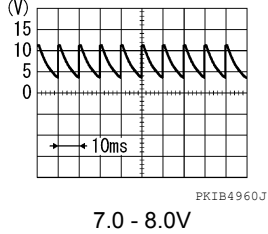
1. CHECK DOOR SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Check signal between BCM connector and ground with oscilloscope.

DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

Terminals		(-)	Door condition		Voltage (V) (Approx.)
(+)					
BCM connector	Terminal				
B57	45	Ground	Front RH	OPEN	0
				CLOSE	
	48		Rear RH	OPEN	0
				CLOSE	
	46		Front LH	OPEN	0
				CLOSE	
	47		Rear LH	OPEN	0
				CLOSE	

Is the inspection result normal?

- YES >> GO TO 4
- NO >> GO TO 2

2. CHECK DOOR SWITCH CIRCUIT

1. Disconnect BCM connector and door switch connector.
2. Check continuity between BCM connector and door switch connector.

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DOOR SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

BCM connector	Terminal	Door switch connector	Terminal	Continuity
B57	45	B28 (Front RH)	3	Yes
	48	B41 (Rear RH)		
	46	B21 (Front LH)		
	47	B26 (Rear LH)		

3. Check continuity between BCM connector and ground.

BCM connector	Terminal		Continuity
B57	45	Ground	No
	48		
	46		
	47		

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness between BCM and door switch.

3.CHECK DOOR SWITCH

Refer to [DLK-262. "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 4

NO >> Replace malfunctioning door switch.

4.CHECK INTERMITTENT INCIDENT

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

>> Inspection End.

Component Inspection

INFOID:000000011536639

1.CHECK DOOR SWITCH

1. Turn ignition switch OFF.
2. Disconnect door switch connector.
3. Check door switch.

Terminal		Door switch condition	Continuity
Door switch			
3	Ground part of door switch	Pressed	No
		Released	Yes

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace malfunctioning door switch.

DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

DOOR LOCK AND UNLOCK SWITCH

DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000011536640

Transmits door lock/unlock operation to BCM.

DRIVER SIDE : Component Function Check

INFOID:0000000011536641

1.CHECK FUNCTION

With CONSULT

Check CDL LOCK SW, CDL UNLOCK SW in Data Monitor mode with CONSULT.

Monitor item	Condition
CDL LOCK SW	LOCK : ON
	UNLOCK : OFF
CDL UNLOCK SW	LOCK : OFF
	UNLOCK : ON

Is the inspection result normal?

YES >> Door lock and unlock switch is OK.

NO >> Refer to [DLK-263, "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000011536642

Regarding Wiring Diagram information, refer to [DLK-240, "Wiring Diagram"](#).

1.CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

1. Turn ignition switch ON.
2. Check voltage at the main power window and door lock/unlock switch connector when the switch (driver side) is turned to "LOCK" or "UNLOCK".

Connector	Main power window and door lock/unlock switch state	Terminal	Voltage
D5	Neutral → Unlock	15	Battery voltage → 0
	Neutral → Lock	3	

Is the inspection result normal?

YES >> GO TO 5

NO >> GO TO 2

2.CHECK POWER WINDOW SWITCH GROUND

1. Turn ignition switch OFF.
2. Disconnect main power window and door lock/unlock switch connector.
3. Check continuity between main power window and door lock/unlock switch connector and ground.

Main power window and door lock/unlock switch connector	Terminal	Continuity
D5	1	Ground Yes

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

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DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

3.CHECK POWER WINDOW SWITCH

Check continuity between main power window and door lock/unlock switch terminals.

Main power window and door lock/unlock switch state	Terminals	Continuity
Lock	1 - 3	Yes
Unlock	15 - 1	
Neutral/Lock	15 - 1	No
Neutral/Unlock	1 - 3	

Is the inspection result normal?

YES >> GO TO 4

NO >> Replace main power window and door lock/unlock switch. Refer to [PWC-69, "Removal and Installation"](#).

4.CHECK POWER WINDOW SWITCH CIRCUITS

1. Disconnect BCM connector.
2. Check continuity between BCM connector and main power window and door lock/unlock switch connector.

BCM connector	Terminal	Main power window and door lock/unlock switch connector	Terminal	Continuity
M21	12	D5	3	Yes
	13		15	

3. Check continuity between BCM connector and ground.

BCM connector	Terminal	Continuity
M21	12	Ground
	13	

Is the inspection result normal?

YES >> GO TO 5

NO >> Repair or replace harness.

5.CHECK INTERMITTENT INCIDENT

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

>> Inspection End.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000011536643

Transmits door lock/unlock operation to BCM.

PASSENGER SIDE : Component Function Check

INFOID:000000011536644

1.CHECK FUNCTION

With CONSULT

Check CDL LOCK SW, CDL UNLOCK SW in Data Monitor mode with CONSULT.

DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

Monitor item	Condition
CDL LOCK SW	LOCK : ON
	UNLOCK : OFF
CDL UNLOCK SW	LOCK : OFF
	UNLOCK : ON

Is the inspection result normal?

YES >> Door lock and unlock switch is OK.

NO >> Refer to [DLK-265. "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000011536645

Regarding Wiring Diagram information, refer to [DLK-240. "Wiring Diagram"](#).

1. CHECK POWER WINDOW SWITCH OUTPUT SIGNAL

1. Turn ignition switch ON.
2. Check voltage at the power window and door lock/unlock switch RH connector when the switch (passenger side) is turned to "LOCK" or "UNLOCK".

Connector	Power window and door lock/unlock switch RH state	Terminal	Voltage
D104	Neutral → Lock	1	Battery voltage → 0
	Neutral → Unlock	2	

Is the inspection result normal?

YES >> GO TO 5

NO >> GO TO 2

2. CHECK POWER WINDOW SWITCH GROUND

1. Turn ignition switch OFF.
2. Disconnect power window and door lock/unlock switch RH connector.
3. Check continuity between power window and door lock/unlock switch RH connector and ground.

Power window and door lock/unlock switch RH connector	Terminal	Continuity
D104	3	Ground Yes

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness.

3. CHECK POWER WINDOW SWITCH

Check continuity between power window and door lock/unlock switch RH terminals.

Power window and door lock/unlock switch RH state	Terminals	Continuity
Lock	1 - 3	Yes
Unlock	2 - 3	
Neutral/Unlock	1 - 3	No
Neutral/Lock	2 - 3	

Is the inspection result normal?

YES >> GO TO 4

NO >> Replace power window and door lock/unlock switch RH.

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DOOR LOCK AND UNLOCK SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

4. CHECK POWER WINDOW SWITCH CIRCUITS

1. Disconnect BCM connector.
2. Check continuity between BCM connector and power window and door lock/unlock switch RH connector.

BCM connector	Terminal	Power window and door lock/unlock switch RH connector	Terminal	Continuity
M21	12	D104	1	Yes
	13		2	

3. Check continuity between BCM connector and ground.

BCM connector	Terminal	Continuity	
M21	12	Ground	No
	13		

Is the inspection result normal?

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

5. CHECK INTERMITTENT INCIDENT

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

>> Inspection End.

KEY CYLINDER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

KEY CYLINDER SWITCH

Description

INFOID:0000000011536646

When the mechanical key is inserted and turned into the front door lock key cylinder switch LH, the switch transmits the LOCK or UNLOCK signal directly to the BCM.

Component Function Check

INFOID:0000000011536647

1. CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

Check KEY CYL UN-SW, KEY CYL UN-SW in "DATA MONITOR" mode for "POWER DOOR LOCK SYSTEM" with CONSULT. Refer to [DLK-228. "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)".](#)

Monitor item	Condition
KEY CYL LK-SW	Lock : ON
	Neutral / Unlock : OFF
KEY CYL UN-SW	Unlock : ON
	Neutral / Lock : OFF

Is the inspection result normal?

- YES >> Key cylinder switch is OK.
NO >> Refer to [DLK-267. "Diagnosis Procedure".](#)

Diagnosis Procedure

INFOID:0000000011536648

Regarding Wiring Diagram information, refer to [DLK-240. "Wiring Diagram".](#)

1. CHECK DOOR KEY CYLINDER SWITCH INPUT SIGNAL

1. Turn ignition switch ON.
2. Check voltage between BCM connector and ground.

Terminals		Key position	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M21	8	Lock	0
		Neutral / Unlock	7.0 - 8.0 V
	7	Unlock	0
		Neutral / Lock	7.0 - 8.0 V

Is the inspection result normal?

- YES >> Front door lock key cylinder switch LH is OK.
NO >> GO TO 2

2. CHECK DOOR KEY CYLINDER SWITCH GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect front door lock key cylinder switch LH connector.
3. Check continuity between front door lock key cylinder switch LH connector and ground.

Front door lock key cylinder switch LH connector	Terminal	Ground	Continuity
D9	4		Yes

Is the inspection result normal?

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KEY CYLINDER SWITCH

[WITHOUT INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

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

3. CHECK DOOR KEY CYLINDER SIGNAL CIRCUIT

1. Disconnect BCM connector M21.
2. Check continuity between front door lock key cylinder switch LH connector and BCM connector M21.

Front door lock key cylinder switch LH connector	Terminal	BCM connector	Terminal	Continuity
D9	6	M21	8	Yes
	5		7	

3. Check continuity between front door lock key cylinder switch LH connector and ground.

Front door lock key cylinder switch LH connector	Terminal	Ground	Continuity
D9	6	Ground	No
	5		

Is the inspection result normal?

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

4. CHECK DOOR KEY CYLINDER SWITCH

Check door key cylinder switch.
Refer to [DLK-268, "Component Inspection"](#).

Is the inspection result normal?

- YES >> Check intermittent incident. Refer to [GI-40, "Intermittent Incident"](#).
NO >> Replace front door lock key cylinder switch LH.

Component Inspection

INFOID:000000011536649

COMPONENT INSPECTION

1. CHECK DOOR KEY CYLINDER SWITCH

Check front door lock key cylinder switch LH.

Terminal		Key position	Continuity
Front door lock key cylinder switch LH connector			
6	4	Lock	Yes
		Neutral / Unlock	No
5		Unlock	Yes
		Neutral / Lock	No

Is the inspection result normal?

- YES >> Key cylinder switch is OK.
NO >> Replace front door lock key cylinder switch LH.

KEY SWITCH (BCM INPUT)

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

KEY SWITCH (BCM INPUT)

Diagnosis Procedure

INFOID:000000011536650

Regarding Wiring Diagram information, refer to [DLK-231, "Wiring Diagram"](#).

1. CHECK KEY SWITCH INPUT SIGNAL

 With CONSULT

Check key switch "KEY ON SW" in DATA MONITOR mode with CONSULT. Refer to [DLK-228, "DOOR LOCK : CONSULT Function \(BCM - DOOR LOCK\)"](#).

- When key is inserted to ignition key cylinder:

KEY ON SW : ON

- When key is removed from ignition key cylinder:

KEY ON SW : OFF

 Without CONSULT

Check voltage between BCM connector M21 terminal 37 and ground.

Connector	Terminal		Condition	Voltage (V)
	(+)	(-)		
M21	37	Ground	Key is inserted.	Battery voltage
			Key is removed.	0

Is the inspection result normal?

- YES >> Key switch (insert) circuit is OK.
NO >> GO TO 2

2. CHECK KEY SWITCH (INSERT)

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

Terminals	Condition	Continuity
1 - 2	Key is inserted.	Yes
	Key is removed.	No

Is the inspection result normal?

- YES >> Repair or replace harness or fuse.
NO >> Replace key switch.

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DOOR LOCK ACTUATOR

[WITHOUT INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

DOOR LOCK ACTUATOR DRIVER SIDE

DRIVER SIDE : Description

INFOID:0000000011536651

Locks/unlocks the door with the signal from BCM.

DRIVER SIDE : Component Function Check

INFOID:0000000011536652

1. CHECK FUNCTION

1. Use CONSULT to perform Active Test ("DOOR LOCK").
2. Touch "ALL LOCK" or "ALL UNLOCK" to check that it works normally.

Is the inspection result normal?

- YES >> Door lock actuator is OK.
NO >> Refer to [DLK-270, "DRIVER SIDE : Diagnosis Procedure"](#).

DRIVER SIDE : Diagnosis Procedure

INFOID:0000000011536653

Regarding Wiring Diagram information, refer to [DLK-240, "Wiring Diagram"](#).

1. CHECK OUTPUT SIGNAL

Check voltage between BCM connector and ground.

Terminals		Condition of door lock and unlock switch	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M20	64	Unlock	0 → Battery voltage → 0
	66	Lock	0 → Battery voltage → 0

Is the inspection result normal?

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

2. CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM and front door lock actuator driver side connector.
3. Check continuity between BCM connector and front door lock actuator driver side connector.

BCM connector	Terminal	Door lock actuator connector	Terminal	Continuity
M20	64	D9	2	Yes
	66		1	

Is the inspection result normal?

- YES >> Replace front door lock actuator LH.
NO >> Repair or replace harness.

3. CHECK DOOR LOCK ACTUATOR HARNESS

1. Turn ignition switch OFF.
2. Disconnect BCM and front door lock actuator driver side connector.
3. Check continuity between BCM connector M20 terminals 64, 66 and ground.

DOOR LOCK ACTUATOR

[WITHOUT INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

Connector	Terminals		Continuity
M20	64	Ground	No
	66		

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-133, "Removal and Installation"](#).

NO >> Repair or replace harness.

PASSENGER SIDE

PASSENGER SIDE : Description

INFOID:000000011536654

Locks/unlocks the door with the signal from BCM.

PASSENGER SIDE : Component Function Check

INFOID:000000011536655

1.CHECK FUNCTION

1. Use CONSULT to perform Active Test ("DOOR LOCK").
2. Touch "ALL LOCK" or "ALL UNLOCK" to check that it works normally.

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to [DLK-271, "PASSENGER SIDE : Diagnosis Procedure"](#).

PASSENGER SIDE : Diagnosis Procedure

INFOID:000000011536656

Regarding Wiring Diagram information, refer to [DLK-240, "Wiring Diagram"](#).

1.CHECK DOOR LOCK ACTUATOR SIGNAL

Check voltage between BCM connector and ground.

Terminals		Condition of door lock and unlock switch	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M20	66	Lock	0 → Battery voltage → 0
	67	Unlock	0 → Battery voltage → 0

Is the inspection result normal?

YES >> GO TO 2

NO >> GO TO 3

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM and front door lock actuator RH connectors.
3. Check continuity between BCM connector and front door lock actuator RH.

BCM connector	Terminal	Front door lock actuator RH connector	Terminal	Continuity
M20	66	D107	5	Yes
	67		6	

Is the inspection result normal?

YES >> Replace front door lock actuator RH.

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DOOR LOCK ACTUATOR

[WITHOUT INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

NO >> Repair or replace harness.

3.CHECK DOOR LOCK ACTUATOR HARNESS

1. Turn ignition switch OFF.
2. Disconnect BCM and front door lock actuator RH.
3. Check continuity between BCM connector M20 terminals 66, 67 and ground.

Terminals		Continuity
66	Ground	No
67		

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-133, "Removal and Installation"](#).

NO >> Repair or replace harness.

REAR LH

REAR LH : Description

INFOID:000000011536657

Locks/unlocks the door with the signal from BCM.

REAR LH : Component Function Check

INFOID:000000011536658

1.CHECK FUNCTION

1. Use CONSULT to perform Active Test ("DOOR LOCK").
2. Touch "ALL LOCK" or "ALL UNLOCK" to check that it works normally.

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to [DLK-272, "REAR LH : Diagnosis Procedure"](#).

REAR LH : Diagnosis Procedure

INFOID:000000011536659

Regarding Wiring Diagram information, refer to [DLK-240, "Wiring Diagram"](#).

1.CHECK DOOR LOCK ACTUATOR SIGNAL

Check voltage between BCM connector and ground.

Terminals		Condition of door lock and unlock switch	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M20	66	Lock	0 → Battery voltage → 0
	67	Unlock	0 → Battery voltage → 0

Is the inspection result normal?

YES >> GO TO 2

NO >> GO TO 3

2.CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM and rear door lock actuator LH connectors.
3. Check continuity between BCM connector and rear door lock actuator LH connectors.

DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

BCM connector	Terminal	Door lock actuator connector	Terminal	Continuity
M20	66	D202	1	Yes
	67		2	

Is the inspection result normal?

YES >> Replace rear door lock actuator LH.

NO >> Repair or replace harness.

3.CHECK DOOR LOCK ACTUATOR HARNESS

1. Turn ignition switch OFF.
2. Disconnect BCM and rear door lock actuator LH connectors.
3. Check continuity between BCM connector M20 terminals 66, 67 and ground.

Terminals		Continuity
66	Ground	No
67		No

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-133, "Removal and Installation"](#).

NO >> Repair or replace harness.

REAR RH

REAR RH : Description

INFOID:000000011536660

Locks/unlocks the door with the signal from BCM.

REAR RH : Component Function Check

INFOID:000000011536661

1.CHECK FUNCTION

1. Use CONSULT to perform Active Test ("DOOR LOCK").
2. Touch "ALL LOCK" or "ALL UNLOCK" to check that it works normally.

Is the inspection result normal?

YES >> Door lock actuator is OK.

NO >> Refer to [DLK-273, "REAR RH : Diagnosis Procedure"](#).

REAR RH : Diagnosis Procedure

INFOID:000000011536662

Regarding Wiring Diagram information, refer to [DLK-240, "Wiring Diagram"](#).

1.CHECK DOOR LOCK ACTUATOR SIGNAL

Check voltage between BCM connector and ground.

Terminals		Condition of door lock and unlock switch	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal		
M20	66	Lock	0 → Battery voltage → 0
	67	Unlock	0 → Battery voltage → 0

Is the inspection result normal?

YES >> GO TO 2

NO >> GO TO 3

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DOOR LOCK ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

2. CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM and rear door lock actuator RH connectors.
3. Check continuity between BCM connector and rear door lock actuator RH connectors.

BCM connector	Terminal	Door lock actuator connector	Terminal	Continuity
M20	66	D302	5	Yes
	67		6	

Is the inspection result normal?

YES >> Replace rear door lock actuator RH.

NO >> Repair or replace harness.

3. CHECK DOOR LOCK ACTUATOR HARNESS

1. Turn ignition switch OFF.
2. Disconnect BCM and rear door lock actuator RH.
3. Check continuity between BCM connector M20 terminals 66, 67 and ground.

Terminals		Continuity
66	Ground	No
67		

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-133, "Removal and Installation"](#).

NO >> Repair or replace harness.

REMOTE KEYLESS ENTRY RECEIVER

[WITHOUT INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

REMOTE KEYLESS ENTRY RECEIVER

Description

INFOID:0000000011536663

Receives keyfob operation and transmits to BCM.

Component Function Check

INFOID:0000000011536664

1. CHECK FUNCTION

With CONSULT

Check remote keyless entry receiver KEYLESS LOCK, KEYLESS UNLOCK, and KEYLESS PANIC in Data Monitor mode with CONSULT.

Monitor item	Condition
KEYLESS LOCK	Checks whether value changes from "Off" to "On" when operating keyfob lock button.
KEYLESS UNLOCK	Checks whether value changes from "Off" to "On" when operating keyfob unlock button.
KEYLESS PANIC	Checks whether value changes from "Off" to "On" when operating keyfob panic button.

Is the inspection result normal?

- YES >> Remote keyless entry receiver is OK.
- NO >> Refer to [DLK-275, "Diagnosis Procedure"](#).

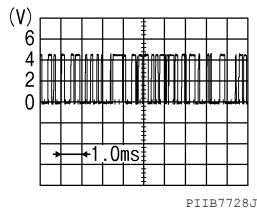
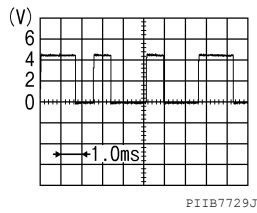
Diagnosis Procedure

INFOID:0000000011536665

Regarding Wiring Diagram information, refer to [DLK-231, "Wiring Diagram"](#).

1. CHECK REMOTE KEYLESS ENTRY RECEIVER OUTPUT SIGNAL

1. Turn ignition switch OFF.
2. Check signal between remote keyless entry receiver connector and ground with oscilloscope.

Terminals			Condition	Signal (Reference value)
(+)	Terminal	(-)		
Remote keyless entry receiver connector				Key inserted into ignition key cylinder
M131	2	Ground	Waiting	
			When signal is received	

Is the inspection result normal?

- YES >> GO TO 7

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REMOTE KEYLESS ENTRY RECEIVER

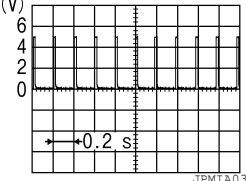
[WITHOUT INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

NO >> GO TO 2

2. CHECK REMOTE KEYLESS ENTRY RECEIVER POWER SUPPLY

1. Disconnect remote keyless entry receiver connector.
2. Check signal between remote keyless entry receiver connector and ground with oscilloscope.

Terminals			Condition	Signal (Reference value)
(+)		(-)		
Remote keyless entry receiver connector	Terminal			
M131	4	Ground	Key inserted into ignition key cylinder	0 V
			Key removed from ignition key cylinder (Any door open)	5 V
			Key removed from ignition key cylinder (Any door closed)	

Is the inspection result normal?

- YES >> GO TO 4
NO >> GO TO 3

3. CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT 1

1. Disconnect BCM connector.
2. Check continuity between BCM connector and remote keyless entry receiver connector.

BCM connector	Terminal	Remote keyless entry receiver connector	Terminal	Continuity
M21	19	M131	4	Yes

3. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
M21	19		No

Is the inspection result normal?

- YES >> Reconnect BCM, GO TO 4
NO >> Repair or replace harness between BCM and remote keyless entry receiver.

4. CHECK REMOTE KEYLESS ENTRY RECEIVER GROUND CIRCUIT

Check continuity between remote keyless entry receiver connector and ground.

Remote keyless entry receiver connector	Terminal	Ground	Continuity
M131	1		Yes

Is the inspection result normal?

- YES >> GO TO 6
NO >> GO TO 5

5. CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT 2

Check continuity between BCM connector and remote keyless entry receiver connector.

REMOTE KEYLESS ENTRY RECEIVER

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

BCM connector	Terminal	Remote keyless entry receiver connector	Terminal	Continuity
M21	18	M131	1	Yes

A

B

Is the inspection result normal?

YES >> GO TO 7

NO >> Repair or replace harness between BCM and remote keyless entry receiver.

C

6. CHECK REMOTE KEYLESS ENTRY RECEIVER CIRCUIT 3

1. Check continuity between BCM connector and remote keyless entry receiver connector.

D

BCM connector	Terminal	Remote keyless entry receiver connector	Terminal	Continuity
M21	20	M131	2	Yes

E

F

2. Check continuity between BCM connector and ground.

BCM connector	Terminal	Ground	Continuity
M21	20		No

G

Is the inspection result normal?

YES >> GO TO 7

NO >> Repair or replace harness between BCM and remote keyless entry.

H

7. CHECK INTERMITTENT INCIDENT

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

I

>> Inspection End.

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KEYFOB BATTERY AND FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

KEYFOB BATTERY AND FUNCTION

Description

INFOID:000000011536666

The following functions are available when having and carrying the keyfob.

- Door lock/unlock
- Panic mode (horn and headlamp operation)

Remote control entry function and panic alarm function are available when operating the remote buttons.

Component Function Check

INFOID:000000011536667

NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Check keyfob relative signal strength
- Confirm vehicle antenna signal strength

1. CHECK FUNCTION

Ⓟ With CONSULT

Check remote keyless entry receiver KEYLESS LOCK, KEYLESS UNLOCK, and KEYLESS PANIC in Data Monitor mode with CONSULT.

Monitor item	Condition
KEYLESS LOCK	Checks whether value changes from "Off" to "On" when operating keyfob lock button.
KEYLESS UNLOCK	Checks whether value changes from "Off" to "On" when operating keyfob unlock button.
KEYLESS PANIC	Checks whether value changes from "Off" to "On" when operating keyfob panic button.

Is the inspection result normal?

YES >> Keyfob is OK.

NO >> Refer to [DLK-278, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000011536668

NOTE:

The Signal Tech II Tool [– (J-50190)] can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Check keyfob relative signal strength
- Confirm vehicle antenna signal strength

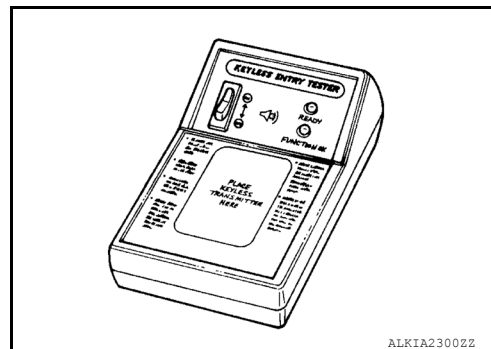
1. CHECK KEYFOB FUNCTION

Check keyfob function using Signal Tech II Tool [– (J-50190)] or Remote Keyless Entry Tester [– (J-43241)] (shown).

Does the test pass?

YES >> Keyfob is OK.

NO >> GO TO 2



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2. CHECK KEYFOB COMPONENTS

KEYFOB BATTERY AND FUNCTION

[WITHOUT INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

1. Remove the screw (A).
2. Insert a small screwdriver into the slit of the corner (B) and twist it to separate the upper part from the power part. Use a cloth to protect the casing.

CAUTION:

- Do not touch the circuit board or battery terminal.
- The keyfob is water-resistant. However, if it does get wet, immediately wipe it dry.

3. Remove the keyfob battery.

CAUTION:

- Keep dirt, grease, and other foreign materials off the electrode contact area.

4. Visually inspect keyfob internal components.

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace malfunctioning parts.

3. CHECK KEYFOB BATTERY

Check by connecting a resistance (approximately 300Ω) so that the current value becomes about 10 mA.

Standard : Approx. 2.5 - 3.0V

Is the measurement value within specification?

YES >> Keyfob battery is OK. Check remote keyless entry receiver. Refer to [DLK-275](#), "[Component Function Check](#)".

NO >> GO TO 4

4. REPLACE KEYFOB BATTERY

1. Replace the keyfob battery with a new one (CR1620 or equivalent).

CAUTION:

- When replacing battery, keep dirt, grease, and other foreign materials off the electrode contact area.
- Make sure that the + side faces the bottom of the case.

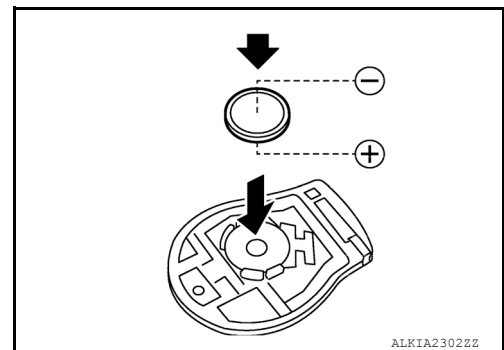
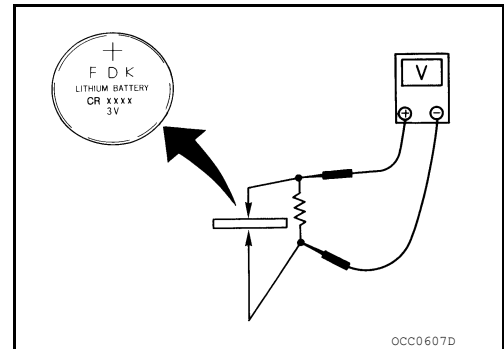
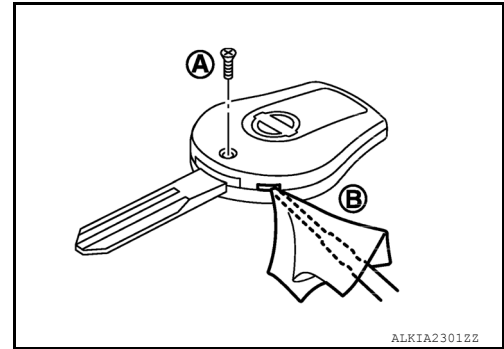
2. Align the tips of the upper and lower parts, and then push them together until it is securely closed.

3. After replacing the battery, check that all keyfob functions work properly.

Is the inspection result normal?

YES >> Keyfob is OK.

NO >> Check remote keyless entry receiver. Refer to [DLK-275](#), "[Component Function Check](#)".



HORN FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

HORN FUNCTION

Description

INFOID:0000000011536669

Perform answer-back for each operation with horn.

Component Function Check

INFOID:0000000011536670

1.CHECK FUNCTION

1. Select HORN in "ACTIVE TEST" mode with CONSULT.
2. Check the horn operation.

Test item		Description	
HORN	ON	Horn relay	ON (for 20 ms)

Is the operation normal?

- YES >> Inspection End.
NO >> Refer to [DLK-280, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000011536671

Regarding Wiring Diagram information, refer to [DLK-231, "Wiring Diagram"](#).

1.CHECK HORN FUNCTION

Check horn function with horn switch.

Does the horn sound?

- YES >> GO TO 2
NO >> Refer to [HRN-3, "Wiring Diagram"](#).

2.CHECK HORN RELAY POWER SUPPLY

1. Turn ignition switch ON.
2. Perform "ACTIVE TEST" ("HORN") with CONSULT.
3. Using an oscilloscope or analog voltmeter to check voltage between IPDM E/R connector and ground.

IPDM E/R		Ground	Test item		Voltage (V) (Approx.)
Connector	Terminal				
E46	48	Ground	HORN	ON	Battery voltage → 0 → Battery voltage
				Other than above	Battery voltage

Is the inspection result normal?

- YES >> GO TO 3
NO >> Replace IPDM E/R. Refer to [PCS-60, "Removal and Installation"](#).

3.CHECK HORN RELAY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect IPDM E/R and horn relay connector.
3. Check continuity between IPDM E/R harness connector and horn relay harness connector.

IPDM E/R		Horn relay		Continuity
Connector	Terminal	Connector	Terminal	
E46	48	H-1	1	Yes

4. Check continuity between IPDM E/R harness connector and ground.

HORN FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

IPDM E/R		Ground	Continuity
Connector	Terminal		
E46	48	Ground	No

Is the inspection result normal?

YES >> GO TO 4

NO >> Repair or replace harness.

4. CHECK INTERMITTENT INCIDENT

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

Is the inspection result normal?

YES >> Replace IPDM E/R. Refer to [PCS-60, "Removal and Installation"](#).

NO >> Repair or replace the malfunctioning part.

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TRUNK LID OPENER ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

TRUNK LID OPENER ACTUATOR

Component Function Check

INFOID:000000011536672

1. CHECK FUNCTION

1. Select INTELLIGENT KEY of BCM using CONSULT.
2. Select TRUNK/GLASS HATCH in ACTIVE TEST mode.
3. Touch OPEN to check that it works normally.

Is the inspection result normal?

- YES >> Trunk lid opener actuator is OK.
NO >> Refer to [DLK-282, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000011536673

Regarding Wiring Diagram information, refer to [DLK-248, "Wiring Diagram"](#).

1. CHECK TRUNK LID OPENER INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect trunk lid opener assembly connector.
3. Check voltage between trunk lid opener assembly harness connector and ground.

(+)		(-)	Condition	Voltage (Approx.)
Trunk lid opener assembly Connector	Terminal			
B59	3	Ground	Trunk lid opener switch is ON	12 V

Is the inspection result normal?

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

2. CHECK TRUNK LID OPENER ACTUATOR CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM harness connector and trunk lid opener assembly harness connector.

BCM		Trunk lid opener assembly		Continuity
Connector	Terminal	Connector	Terminal	
B57	55	B59	3	Yes

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
B57	55		No

Is the inspection result normal?

- YES >> Replace BCM. Refer to [BCS-133, "Removal and Installation"](#).
NO >> Repair or replace harness.

3. CHECK TRUNK LID OPENER ACTUATOR GROUND CIRCUIT

Check continuity between trunk lid opener assembly harness connector and ground.

TRUNK LID OPENER ACTUATOR

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

Trunk lid opener assembly		Ground	Continuity
Connector	Terminal		Yes
B59	2		

Is the inspection normal?

YES >> Replace trunk lid opener assembly.

NO >> Repair or replace harness.

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TRUNK LID OPENER SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

TRUNK LID OPENER SWITCH

Component Function Check

INFOID:0000000011536674

1. CHECK FUNCTION

1. Select TRUNK of BCM using CONSULT.
2. Select TR/BD OPEN SW in DATA MONITOR mode.
3. Check that the function operates normally according to the following conditions.

Monitor item	Condition		Status
TR/BD OPEN SW	Trunk lid opener switch	Pressed	On
		Released	Off

Is the inspection result normal?

- YES >> Trunk lid opener switch is OK.
 NO >> Refer to [DLK-284, "Diagnosis Procedure"](#).

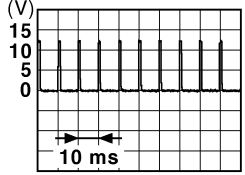
Diagnosis Procedure

INFOID:0000000011536675

Regarding Wiring Diagram information, refer to [DLK-248, "Wiring Diagram"](#).

1. CHECK TRUNK LID OPENER INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect trunk lid opener switch connector.
3. Check signal between trunk lid opener switch harness connector and ground using oscilloscope.

(+)		(-)	Signal (Reference value)
Connector	Terminal		
M15	1	Ground	 <p>JPMA0012GB</p>

Is the inspection result normal?

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

2. CHECK TRUNK LID OPENER SWITCH CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM harness connector and trunk lid opener switch harness connector.

BCM		Trunk lid opener switch		Continuity
Connector	Terminal	Connector	Terminal	
M21	30	M15	1	Yes

3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M21	30		No

TRUNK LID OPENER SWITCH

[WITHOUT INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

Is the inspection result normal?

YES >> Replace BCM. Refer to [BCS-133, "Removal and Installation"](#).

NO >> Repair or replace harness.

3.CHECK TRUNK LID OPENER SWITCH GROUND CIRCUIT

Check continuity between trunk lid opener switch harness connector and ground.

Trunk lid opener switch		Ground	Continuity
Connector	Terminal		Yes
M15	2		

Is the inspection result normal?

YES >> GO TO 4.

NO >> Repair or replace harness.

4.CHECK TRUNK LID OPENER SWITCH

Refer to [DLK-285, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 5.

NO >> Replace trunk lid opener switch.

5.CHECK INTERMITTENT INCIDENT

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

>> Inspection End.

Component Inspection

INFOID:0000000011536676

1.CHECK TRUNK LID OPENER SWITCH

1. Turn ignition switch OFF.
2. Disconnect trunk lid opener switch connector.
3. Check continuity between trunk lid opener switch terminals.

Trunk lid opener switch		Condition		Continuity
Terminal		Trunk lid opener switch	Pressed	Yes
1	2		Release	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace trunk lid opener switch.

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TRUNK LAMP SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

TRUNK LAMP SWITCH

Description

INFOID:000000011536677

Detects trunk open/close condition.

Component Function Check

INFOID:000000011536678

1. CHECK FUNCTION

With CONSULT

Check TRNK/HAT MNTR in Data Monitor mode with CONSULT.

Monitor item	Condition
TRNK/HAT MNTR	OPEN : ON
	CLOSE : OFF

Is the inspection result normal?

- YES >> Trunk lid switch is OK.
 NO >> Refer to [DLK-286, "Diagnosis Procedure"](#).

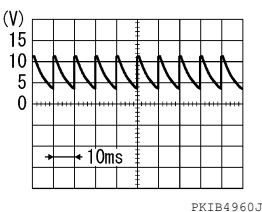
Diagnosis Procedure

INFOID:000000011536679

Regarding Wiring Diagram information, refer to [DLK-248, "Wiring Diagram"](#).

1. CHECK TRUNK LID SWITCH INPUT SIGNAL

- Turn ignition switch OFF.
- Check voltage between BCM connector and ground.

Terminals		Trunk condition	Voltage (V) (Approx.)
(+)	(-)		
BCM connector	Terminal	OPEN	0
B57	51	CLOSE	 <p>7.0 - 8.0V</p>

Is the inspection result normal?

- YES >> GO TO 6
 NO >> GO TO 2

2. CHECK TRUNK LID SWITCH CIRCUIT

- Disconnect BCM and trunk lid opener assembly connector.
- Check continuity between BCM connector and trunk lid opener assembly connector.

BCM connector	Terminal	Trunk lid opener assembly connector	Terminal	Continuity
B57	51	B59	1	Yes

- Check continuity between BCM connector and ground.

TRUNK LAMP SWITCH

[WITHOUT INTELLIGENT KEY SYSTEM]

< DTC/CIRCUIT DIAGNOSIS >

BCM connector	Terminal	Ground	Continuity
B57	51		No

Is the inspection result normal?

YES >> GO TO 3

NO >> Repair or replace harness between BCM and trunk lid opener assembly.

3.CHECK TRUNK LID SWITCH GROUND CIRCUIT

Check continuity between trunk lid opener assembly connector and ground.

Trunk lid opener assembly connector	Terminal	Ground	Continuity
B59	2		Yes

Is the inspection result normal?

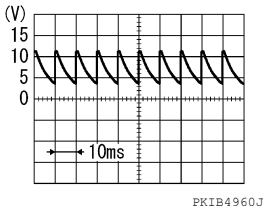
YES >> GO TO 4

NO >> Repair or replace trunk lid opener assembly ground circuit.

4.CHECK BCM OUTPUT SIGNAL

1. Ensure trunk lid remains closed during this step.
2. Connect BCM connector.
3. Check voltage between BCM connector and ground.

Terminals		Voltage (V) (Approx.)
(+)	(-)	
BCM connector	Terminal	
B57	51	Ground



7.0 - 8.0V

Is the inspection result normal?

YES >> GO TO 5

NO >> Replace BCM. Refer to [BCS-133, "Removal and Installation"](#).

5.CHECK TRUNK LID SWITCH

Refer to [DLK-287, "Component Inspection"](#).

Is the inspection result normal?

YES >> GO TO 6

NO >> Replace trunk lid opener assembly.

6.CHECK INTERMITTENT INCIDENT

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

>> Inspection End.

Component Inspection

INFOID:000000011536680

1.CHECK TRUNK LID SWITCH

1. Turn ignition switch OFF.
2. Disconnect trunk lid opener assembly connector.
3. Check trunk lid switch.

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DLK

TRUNK LAMP SWITCH

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

Terminal		Trunk condition	Continuity
Trunk lid switch			
1	2	OPEN	Yes
		CLOSE	No

Is the inspection result normal?

YES >> Inspection End.

NO >> Replace trunk lid opener assembly.

WARNING CHIME FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

WARNING CHIME FUNCTION

Description

INFOID:0000000011536681

Performs operation method guide and warning with buzzer.

Component Function Check

INFOID:0000000011536682

1.CHECK FUNCTION

With CONSULT

1. Check the operation with "BUZZER" in the Active Test.
2. Touch "IGN KEY WARN ALM", "SEAT BELT WARN TEST" or "LIGHT WARN ALM" on screen.

Is the inspection result normal?

- YES >> Warning buzzer into combination meter is OK.
NO >> Refer to [DLK-289. "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:0000000011536683

1.CHECK METER BUZZER CIRCUIT

Operate the hazard lights by turning ON the hazard warning switch.

Is the inspection result normal?

- YES >> GO TO 2
NO >> Replace combination meter. Refer to [MWI-77. "Removal and Installation"](#).

2.CHECK INTERMITTENT INCIDENT

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

>> Inspection End.

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HAZARD FUNCTION

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

HAZARD FUNCTION

Description

INFOID:000000011536684

Perform answer-back for each operation with number of blinks.

Component Function Check

INFOID:000000011536685

1.CHECK FUNCTION

Check hazard warning lamp ("FLASHER") in Active Test.

Is the inspection result normal?

YES >> Hazard warning lamp circuit is OK.

NO >> Refer to [DLK-290, "Diagnosis Procedure"](#).

Diagnosis Procedure

INFOID:000000011536686

1.CHECK HAZARD SWITCH CIRCUIT

Operate the hazard lights by turning ON the hazard warning switch.

Is the inspection result normal?

YES >> GO TO 2

NO >> Repair or replace hazard warning switch circuit. Refer to [EXL-130, "Removal and Installation"](#).

2.CHECK INTERMITTENT INCIDENT

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

>> Inspection End.

KEYFOB ID SET UP WITH CONSULT

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

KEYFOB ID SET UP WITH CONSULT

ID Code Entry Procedure

INFOID:000000011536687

KEYFOB ID SET UP WITH CONSULT

NOTE:

- If a keyfob is lost, the ID code of the lost keyfob must be erased to prevent unauthorized use. A specific ID code can be erased with CONSULT. However, when the ID code of a lost keyfob is not known, all controller ID codes should be erased. After all ID codes are erased, the ID codes of all remaining and/or new keyfobs must be re-registered.
- When registering an additional keyfob, the existing ID codes in memory may or may not be erased. If five ID codes are stored in memory when an additional code is registered, only the oldest code is erased. If less than five codes are stored in memory when an additional code is registered, the new ID code is added and no ID codes are erased.
- Entry of a maximum of five ID codes is allowed. When more than five codes are entered, the oldest ID code will be erased.
- Even if the same ID code that is already in memory is input, the same ID code can be entered. The code is counted as an additional code.

1. Turn ignition switch ON.
2. Select BCM.
3. Select MULTI REMOTE ENT.
4. Select WORK SUPPORT.
5. You can register, erase or confirm a keyfob ID code. To register a new code, select the following option and follow CONSULT instructions:
 - REMO CONT ID REGIST
Use this mode to register a keyfob ID code.

NOTE:

Register the ID code when keyfob or BCM is replaced, or when additional keyfob is required.

- REMO CONT ID ERASUR
Use this mode to erase a keyfob ID code.
- REMO CONT ID CONFIR
Use this mode to confirm if a keyfob ID code is registered or not.

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KEYFOB ID SET UP WITHOUT CONSULT

< DTC/CIRCUIT DIAGNOSIS >

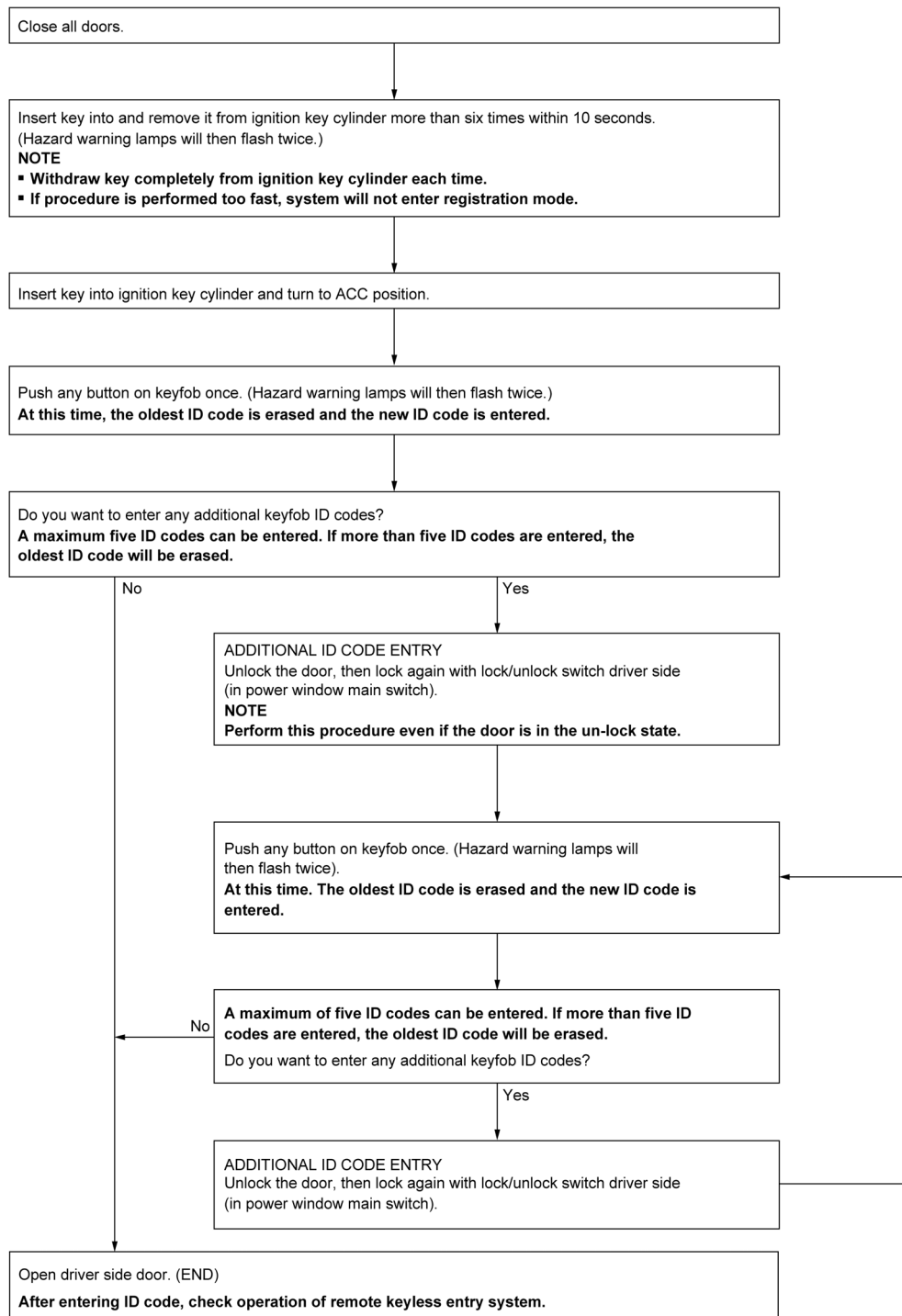
[WITHOUT INTELLIGENT KEY SYSTEM]

KEYFOB ID SET UP WITHOUT CONSULT

ID Code Entry Procedure

INFOID:000000011536688

KEYFOB ID SET UP WITHOUT CONSULT



NOTE:

- If a keyfob is lost, the ID code of the lost keyfob must be erased to prevent unauthorized use. A specific ID code can be erased with CONSULT. However, when the ID code of a lost keyfob is not known, all controller

ALKIA2029GB

KEYFOB ID SET UP WITHOUT CONSULT

< DTC/CIRCUIT DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

ID codes should be erased. After all ID codes are erased, the ID codes of all remaining and/or new keyfobs must be re-registered.

To erase all ID codes in memory, register one ID code (keyfob) five times. After all ID codes are erased, the ID codes of all remaining and/or new keyfobs must be re-registered.

- When registering an additional keyfob, the existing ID codes in memory may or may not be erased. If five ID codes are stored in memory, when an additional code is registered, only the oldest code is erased. If less than five ID codes are stored in memory, when an additional ID code is registered, the new ID code is added and no ID codes are erased.
- If you need to activate more than two additional new keyfobs, repeat the procedure "Additional ID code entry" for each new keyfob [DLK-291. "ID Code Entry Procedure"](#) (with CONSULT), [DLK-292. "ID Code Entry Procedure"](#) (without CONSULT).
- A maximum amount of five ID codes is allowed. When more than five ID codes are entered, the oldest ID code will be erased.
- Even if same ID code that is already in the memory is input, the same ID code can be entered. The code is counted as an additional code.

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POWER DOOR LOCK SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

SYMPTOM DIAGNOSIS

POWER DOOR LOCK SYSTEM SYMPTOMS

Symptom Table

INFOID:0000000011536689

DOOR LOCK/UNLOCK FUNCTION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check “WORK FLOW”. Refer to [DLK-252, "Work Flow"](#).
- Check that vehicle is under the condition shown in “Conditions of vehicle” before starting diagnosis, and check each symptom.
- If the following symptoms are detected, check systems shown in the “Diagnosis/service procedure” column in this order.

Symptom	Diagnosis/service procedure	Reference page	
Key reminder door function does not operate properly.	1. Check door switch.	DLK-260	
	2. Check key switch.	DLK-269	
	3. Check Intermittent Incident.	GI-40	
Power door lock does not operate with door lock and unlock switch on main power window and door lock/unlock switch or power window and door lock/unlock switch RH.	1. Check BCM power supply and ground circuit.	BCS-126	
	2. Check main power window and door lock and unlock switch.	DLK-263	
	3. Check power window and door lock and unlock switch RH.	DLK-264	
	4. Check Intermittent Incident.	GI-40	
Specific door lock actuator does not operate.	1. Check door lock actuator.	Driver side	DLK-270
		Passenger side	DLK-271
		Rear LH	DLK-272
		Rear RH	DLK-273
	2. Check Intermittent Incident.	GI-40	
Power door locks do not operate with front door lock key cylinder switch LH.	1. Check key cylinder switch.	DLK-267	
	2. Replace BCM.	BCS-133	
Vehicle speed sensing auto door LOCK operation does not operate.	1. Ensure automatic door lock/unlock function (lock operation) is enabled.	DLK-221	
	2. Check combination meter vehicle speed signal.	MWI-49	
	3. Check intermittent incident.	GI-40	
Ignition OFF interlock auto door UNLOCK function does not operate.	1. Ensure automatic door lock/unlock function (unlock operation) is enabled.	DLK-221	
	2. Check BCM for DTCs.	BCS-113	
	3. Check intermittent incident.	GI-40	

REMOTE KEYLESS ENTRY SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

REMOTE KEYLESS ENTRY SYSTEM SYMPTOMS

Symptom Table

INFOID:000000011536690

REMOTE KEYLESS ENTRY SYSTEM

Symptom	Diagnoses/service procedure	Reference page
All functions of remote keyless entry system do not operate.	1. Keyfob battery and function check use Remote Keyless Entry Tester [- (J-43241)] or Signal Tech II Tool [- (J-50190)] NOTE: If the result of keyfob function check is OK, keyfob is not malfunctioning.	DLK-278
	2. Check BCM and remote keyless entry receiver.	DLK-275
The new ID of keyfob cannot be entered.	1. Keyfob battery and function check use Remote Keyless Entry Tester [- (J-43241)] or Signal Tech II Tool [- (J-50190)] NOTE: If the result of keyfob function check is OK, keyfob is not malfunctioning.	DLK-278
	2. Door switch check	DLK-260
	3. ACC power check	BCS-126
	4. Replace BCM.	BCS-133
Door lock or unlock does not function. (If the power door lock system does not operate manually, check power door lock system)	1. Keyfob battery and function check use Remote Keyless Entry Tester [- (J-43241)] or Signal Tech II Tool [- (J-50190)] NOTE: If the result of keyfob function check is OK, keyfob is not malfunctioning.	DLK-278
	2. Replace BCM.	BCS-133
Hazard and horn reminder does not activate properly when pressing lock or unlock button of keyfob.	1. Check hazard and horn reminder mode with CONSULT NOTE: Hazard and horn reminder mode can be changed. First check the hazard and horn reminder mode setting.	DLK-224
	2. Door switch check	DLK-260
	3. Replace BCM.	BCS-133
Hazard reminder does not activate properly when pressing lock or unlock button of keyfob. (Horn reminder OK)	1. Check hazard reminder mode with CONSULT NOTE: Hazard reminder mode can be changed. First check the hazard reminder mode setting.	DLK-224
	2. Check hazard function with hazard switch	—
	3. Replace BCM.	BCS-133
Horn reminder does not activate properly when pressing lock or unlock button of keyfob. (Hazard reminder OK)	1. Check horn reminder mode with CONSULT NOTE: Horn reminder mode can be changed. First check the horn reminder mode setting.	DLK-224
	2. Check horn function with horn switch	—
	3. IPDM E/R operation check	PCS-37
	4. Replace BCM.	BCS-133
Room lamp illumination does not operate properly.	1. Room lamp operation check	INL-8
	2. Door switch check	DLK-260
	3. Replace BCM.	BCS-133

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REMOTE KEYLESS ENTRY SYSTEM SYMPTOMS

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

Symptom	Diagnoses/service procedure	Reference page
Panic alarm (horn and headlamp) does not activate when panic alarm button is continuously pressed.	1. Keyfob battery and function check use Remote Keyless Entry Tester [- (J-43241)] or Signal Tech II Tool [- (J-50190)] NOTE: If the result of keyfob function check is OK, keyfob is not malfunctioning.	DLK-278
	2. ACC power check	PCS-37
	3. Replace BCM.	BCS-133
Auto door lock operation does not activate properly. (All other remote keyless entry functions OK.)	1. Check auto door lock operation mode with CONSULT NOTE: Auto door lock operation mode can be changed. First check the auto door lock operation mode setting.	DLK-221
	2. Replace BCM.	BCS-133

SQUEAK AND RATTLE TROUBLE DIAGNOSES

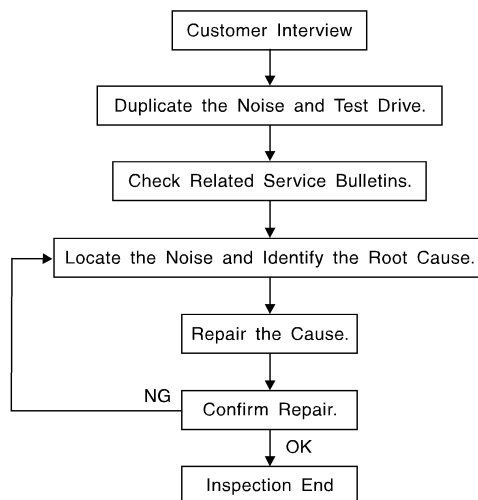
< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:000000011536691



SBT842

CUSTOMER INTERVIEW

Interview the customer if possible, to determine the conditions that exist when the noise occurs. Use the Diagnostic Worksheet during the interview to document the facts and conditions when the noise occurs and any customer's comments; refer to [DLK-301, "Diagnostic Worksheet"](#). This information is necessary to duplicate the conditions that exist when the noise occurs.

- The customer may not be able to provide a detailed description or the location of the noise. Attempt to obtain all the facts and conditions that exist when the noise occurs (or does not occur).
- If there is more than one noise in the vehicle, be sure to diagnose and repair the noise that the customer is concerned about. This can be accomplished by test driving the vehicle with the customer.
- After identifying the type of noise, isolate the noise in terms of its characteristics. The noise characteristics are provided so the customer, service adviser and technician are all speaking the same language when defining the noise.
- Squeak —(Like tennis shoes on a clean floor)
Squeak characteristics include the light contact/fast movement/brought on by road conditions/hard surfaces = higher pitch noise/softer surfaces = lower pitch noises/edge to surface = chirping.
- Creak—(Like walking on an old wooden floor)
Creak characteristics include firm contact/slow movement/twisting with a rotational movement/pitch dependent on materials/often brought on by activity.
- Rattle—(Like shaking a baby rattle)
Rattle characteristics include the fast repeated contact/vibration or similar movement/loose parts/missing clip or fastener/incorrect clearance.
- Knock —(Like a knock on a door)
Knock characteristics include hollow sounding/sometimes repeating/often brought on by driver action.
- Tick—(Like a clock second hand)
Tick characteristics include gentle contacting of light materials/loose components/can be caused by driver action or road conditions.
- Thump—(Heavy, muffled knock noise)
Thump characteristics include softer knock/dead sound often brought on by activity.
- Buzz—(Like a bumble bee)
Buzz characteristics include high frequency rattle/firm contact.
- Often the degree of acceptable noise level will vary depending upon the person. A noise that you may judge as acceptable may be very irritating to the customer.
- Weather conditions, especially humidity and temperature, may have a great effect on noise level.

DUPLICATE THE NOISE AND TEST DRIVE

If possible, drive the vehicle with the customer until the noise is duplicated. Note any additional information on the Diagnostic Worksheet regarding the conditions or location of the noise. This information can be used to duplicate the same conditions when you confirm the repair.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

If the noise can be duplicated easily during the test drive, to help identify the source of the noise, try to duplicate the noise with the vehicle stopped by doing one or all of the following:

- 1) Close a door.
 - 2) Tap or push/pull around the area where the noise appears to be coming from.
 - 3) Rev the engine.
 - 4) Use a floor jack to recreate vehicle "twist".
 - 5) At idle, apply engine load (electrical load, half-clutch on M/T model, drive position on CVT and A/T models).
 - 6) Raise the vehicle on a hoist and hit a tire with a rubber hammer.
- Drive the vehicle and attempt to duplicate the conditions the customer states exist when the noise occurs.
 - If it is difficult to duplicate the noise, drive the vehicle slowly on an undulating or rough road to stress the vehicle body.

CHECK RELATED SERVICE BULLETINS

After verifying the customer concern or symptom, check ASIST for Technical Service Bulletins (TSBs) related to that concern or symptom.

If a TSB relates to the symptom, follow the procedure to repair the noise.

LOCATE THE NOISE AND IDENTIFY THE ROOT CAUSE

1. Narrow down the noise to a general area. To help pinpoint the source of the noise, use a listening tool (Chassis Ear: J-39570, Engine Ear: J-39565 and mechanic's stethoscope).
2. Narrow down the noise to a more specific area and identify the cause of the noise by:
 - removing the components in the area that you suspect the noise is coming from.
Do not use too much force when removing clips and fasteners, otherwise clips and fasteners can be broken or lost during the repair, resulting in the creation of new noise.
 - tapping or pushing/pulling the component that you suspect is causing the noise.
Do not tap or push/pull the component with excessive force, otherwise the noise will be eliminated only temporarily.
 - feeling for a vibration with your hand by touching the component(s) that you suspect is (are) causing the noise.
 - placing a piece of paper between components that you suspect are causing the noise.
 - looking for loose components and contact marks.Refer to [DLK-298, "Generic Squeak and Rattle Troubleshooting"](#).

REPAIR THE CAUSE

- If the cause is a loose component, tighten the component securely.
- If the cause is insufficient clearance between components:
 - separate components by repositioning or loosening and retightening the component, if possible.
 - insulate components with a suitable insulator such as urethane pads, foam blocks, felt cloth tape or urethane tape. A NISSAN Squeak and Rattle Kit (J-50397) is available through your authorized NISSAN Parts Department.

CAUTION:

Do not use excessive force as many components are constructed of plastic and may be damaged.

NOTE:

- Always check with the Parts Department for the latest parts information.
- The materials contained in the NISSAN Squeak and Rattle Kit (J-50397) are listed on the inside cover of the kit; and can each be ordered separately as needed.
- The following materials not found in the kit can also be used to repair squeaks and rattles.
 - SILICONE GREASE: Use instead of UHMW tape that will be visible or does not fit. The silicone grease will only last a few months.
 - SILICONE SPRAY: Use when grease cannot be applied.
 - DUCT TAPE: Use to eliminate movement.

CONFIRM THE REPAIR

Confirm that the cause of a noise is repaired by test driving the vehicle. Operate the vehicle under the same conditions as when the noise originally occurred. Refer to the notes on the Diagnostic Worksheet.

Generic Squeak and Rattle Troubleshooting

INFOID:000000011536692

Refer to Table of Contents for specific component removal and installation information.

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

1. Cluster lid A and the instrument panel
2. Acrylic lens and combination meter housing
3. Instrument panel to front pillar finisher
4. Instrument panel to windshield
5. Instrument panel pins
6. Wiring harnesses behind the combination meter
7. A/C defroster duct and duct joint

These incidents can usually be located by tapping or moving the components to duplicate the noise or by pressing on the components while driving to stop the noise. Most of these incidents can be repaired by applying felt cloth tape or silicone spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness.

CAUTION:

Do not use silicone spray to isolate a squeak or rattle. If you saturate the area with silicone, you will not be able to recheck the repair.

CENTER CONSOLE

Components to pay attention to include:

1. Shift selector assembly cover to finisher
2. A/C control unit and cluster lid C
3. Wiring harnesses behind audio and A/C control unit

The instrument panel repair and isolation procedures also apply to the center console.

DOORS

Pay attention to the:

1. Finisher and inner panel making a slapping noise
2. Inside handle escutcheon to door finisher
3. Wiring harnesses tapping
4. Door striker out of alignment causing a popping noise on starts and stops

Tapping or moving the components or pressing on them while driving to duplicate the conditions can isolate many of these incidents. You can usually insulate the areas with felt cloth tape or insulator foam blocks from the NISSAN Squeak and Rattle Kit (J-50397) to repair the noise.

TRUNK

Trunk noises are often caused by a loose jack or loose items put into the trunk by the owner.

In addition look for:

1. Trunk lid bumpers out of adjustment
2. Trunk lid striker out of adjustment
3. The trunk lid torsion bars knocking together
4. A loose license plate or bracket

Most of these incidents can be repaired by adjusting, securing or insulating the item(s) or component(s) causing the noise.

SUNROOF/HEADLINING

Noises in the sunroof/headlining area can often be traced to one of the following:

1. Sunroof lid, rail, linkage or seals making a rattle or light knocking noise
2. Sun visor shaft shaking in the holder
3. Front or rear windshield touching headlining and squeaking

Again, pressing on the components to stop the noise while duplicating the conditions can isolate most of these incidents. Repairs usually consist of insulating with felt cloth tape.

OVERHEAD CONSOLE (FRONT AND REAR)

Overhead console noises are often caused by the console panel clips not being engaged correctly. Most of these incidents are repaired by pushing up on the console at the clip locations until the clips engage.

In addition look for:

1. Loose harness or harness connectors.
2. Front console map/reading lamp lens loose.

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

3. Loose screws at console attachment points.

SEATS

When isolating seat noise it's important to note the position the seat is in and the load placed on the seat when the noise is present. These conditions should be duplicated when verifying and isolating the cause of the noise.

Cause of seat noise include:

1. Headrest rods and holder
2. A squeak between the seat pad cushion and frame
3. The rear seatback lock and bracket

These noises can be isolated by moving or pressing on the suspected components while duplicating the conditions under which the noise occurs. Most of these incidents can be repaired by repositioning the component or applying urethane tape to the contact area.

UNDERHOOD

Some interior noise may be caused by components under the hood or on the engine wall. The noise is then transmitted into the passenger compartment.

Causes of transmitted underhood noise include:

1. Any component installed to the engine wall
2. Components that pass through the engine wall
3. Engine wall mounts and connectors
4. Loose radiator installation pins
5. Hood bumpers out of adjustment
6. Hood striker out of adjustment

These noises can be difficult to isolate since they cannot be reached from the interior of the vehicle. The best method is to secure, move or insulate one component at a time and test drive the vehicle. Also, engine rpm or load can be changed to isolate the noise. Repairs can usually be made by moving, adjusting, securing, or insulating the component causing the noise.

SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

Diagnostic Worksheet

INFOID:000000011536693

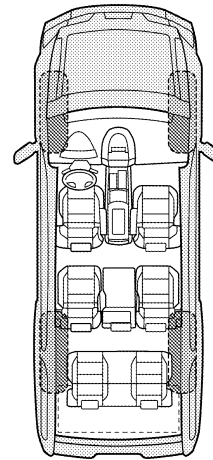
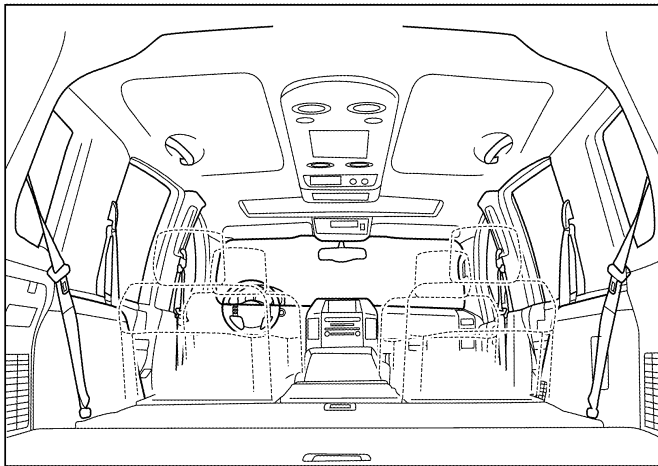
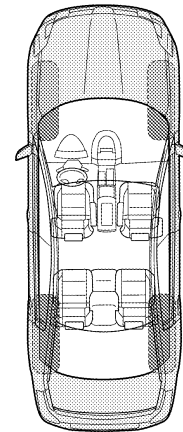
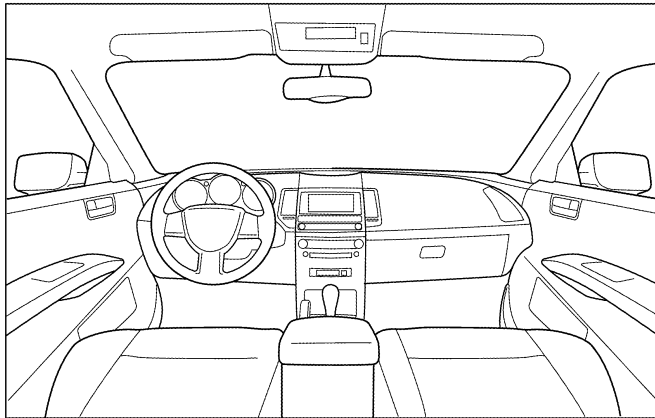
Dear Customer:

We are concerned about your satisfaction with your vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your vehicle right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under what conditions. You may be asked to take a test drive with a service advisor or technician to ensure we confirm the noise you are hearing.

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET

I. WHERE DOES THE NOISE COME FROM? (circle the area of the vehicle)

The illustrations are for reference only, and may not reflect the actual configuration of your vehicle.



Continue to page 2 of the worksheet and briefly describe the location of the noise or rattle. In addition, please indicate the conditions which are present when the noise occurs.

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SQUEAK AND RATTLE TROUBLE DIAGNOSES

< SYMPTOM DIAGNOSIS >

[WITHOUT INTELLIGENT KEY SYSTEM]

SQUEAK & RATTLE DIAGNOSTIC WORKSHEET - page 2

Briefly describe the location where the noise occurs:

II. WHEN DOES IT OCCUR? (please check the boxes that apply)

- | | |
|---|--|
| <input type="checkbox"/> Anytime | <input type="checkbox"/> After sitting out in the rain |
| <input type="checkbox"/> 1st time in the morning | <input type="checkbox"/> When it is raining or wet |
| <input type="checkbox"/> Only when it is cold outside | <input type="checkbox"/> Dry or dusty conditions |
| <input type="checkbox"/> Only when it is hot outside | <input type="checkbox"/> Other: |

III. WHEN DRIVING:

- Through driveways
- Over rough roads
- Over speed bumps
- Only about ____ mph
- On acceleration
- Coming to a stop
- On turns: left, right or either (circle)
- With passengers or cargo
- Other: _____
- After driving ____ miles or ____ minutes

IV. WHAT TYPE OF NOISE

- Squeak (like tennis shoes on a clean floor)
- Creak (like walking on an old wooden floor)
- Rattle (like shaking a baby rattle)
- Knock (like a knock at the door)
- Tick (like a clock second hand)
- Thump (heavy muffled knock noise)
- Buzz (like a bumble bee)

TO BE COMPLETED BY DEALERSHIP PERSONNEL

Test Drive Notes:

	YES	NO	Initials of person performing
Vehicle test driven with customer	<input type="checkbox"/>	<input type="checkbox"/>	_____
- Noise verified on test drive	<input type="checkbox"/>	<input type="checkbox"/>	_____
- Noise source located and repaired	<input type="checkbox"/>	<input type="checkbox"/>	_____
- Follow up test drive performed to confirm repair	<input type="checkbox"/>	<input type="checkbox"/>	_____

VIN: _____ Customer Name _____

W.O.# _____ Date: _____

This form must be attached to Work Order

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HOOD

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

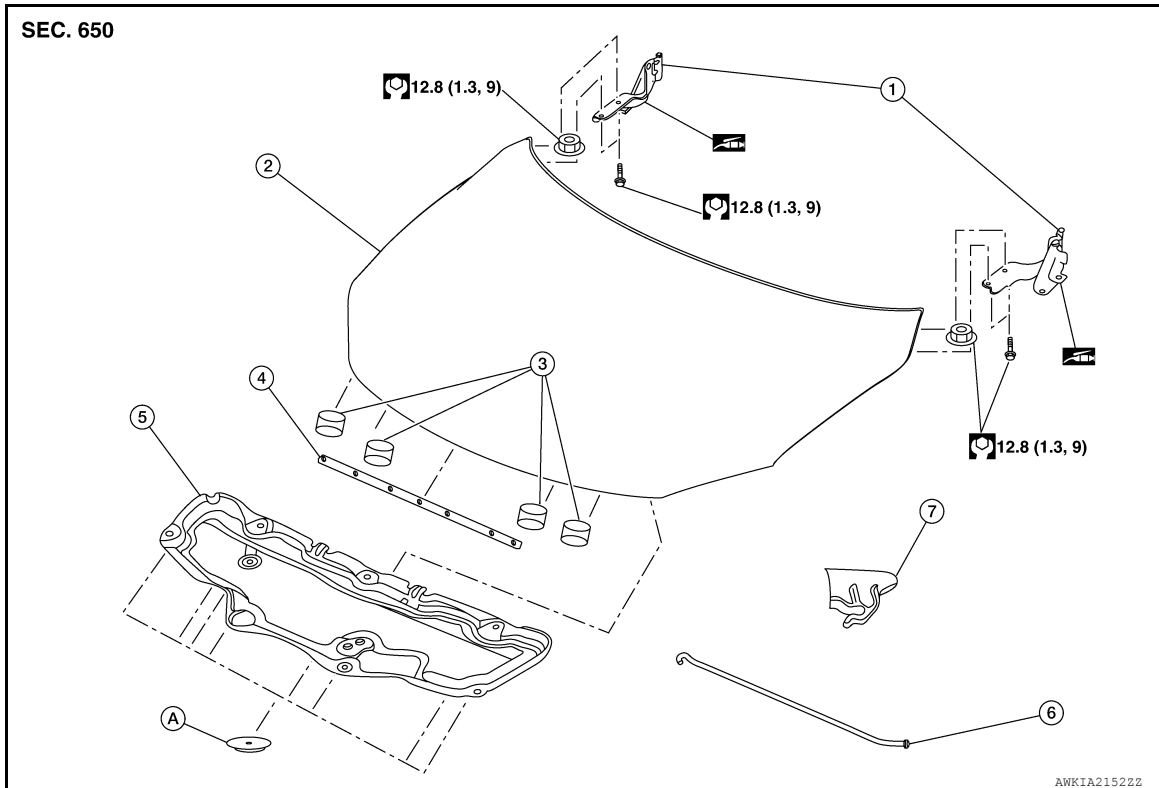
REMOVAL AND INSTALLATION

HOOD

HOOD ASSEMBLY

HOOD ASSEMBLY : Exploded View

INFOID:000000011536694



- | | | |
|---------------------------|-------------------|-----------------------|
| 1. Hood hinge (LH/RH) | 2. Hood assembly | 3. Hood bumper rubber |
| 4. Hood seal | 5. Hood insulator | 6. Hood support rod |
| 7. Hood support rod clamp | A. Clip | |

HOOD ASSEMBLY : Removal and Installation

INFOID:000000011536695

CAUTION:

- Use two people when removing or installing hood assembly due to its heavy weight.
- Use protective tape or shop cloths to protect surrounding components from damage during removal and installation of hood assembly.

REMOVAL

1. Support the hood assembly using a suitable tool.

WARNING:

Bodily injury may occur if hood assembly is not supported properly when removing hood assembly.

2. Disconnect front washer nozzle and tube.

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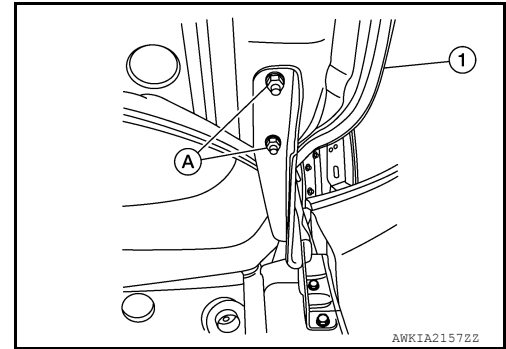
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HOOD

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

- Remove hood hinge to hood nuts (A) and then remove the hood assembly (1).



INSTALLATION

Installation is in the reverse order of removal.

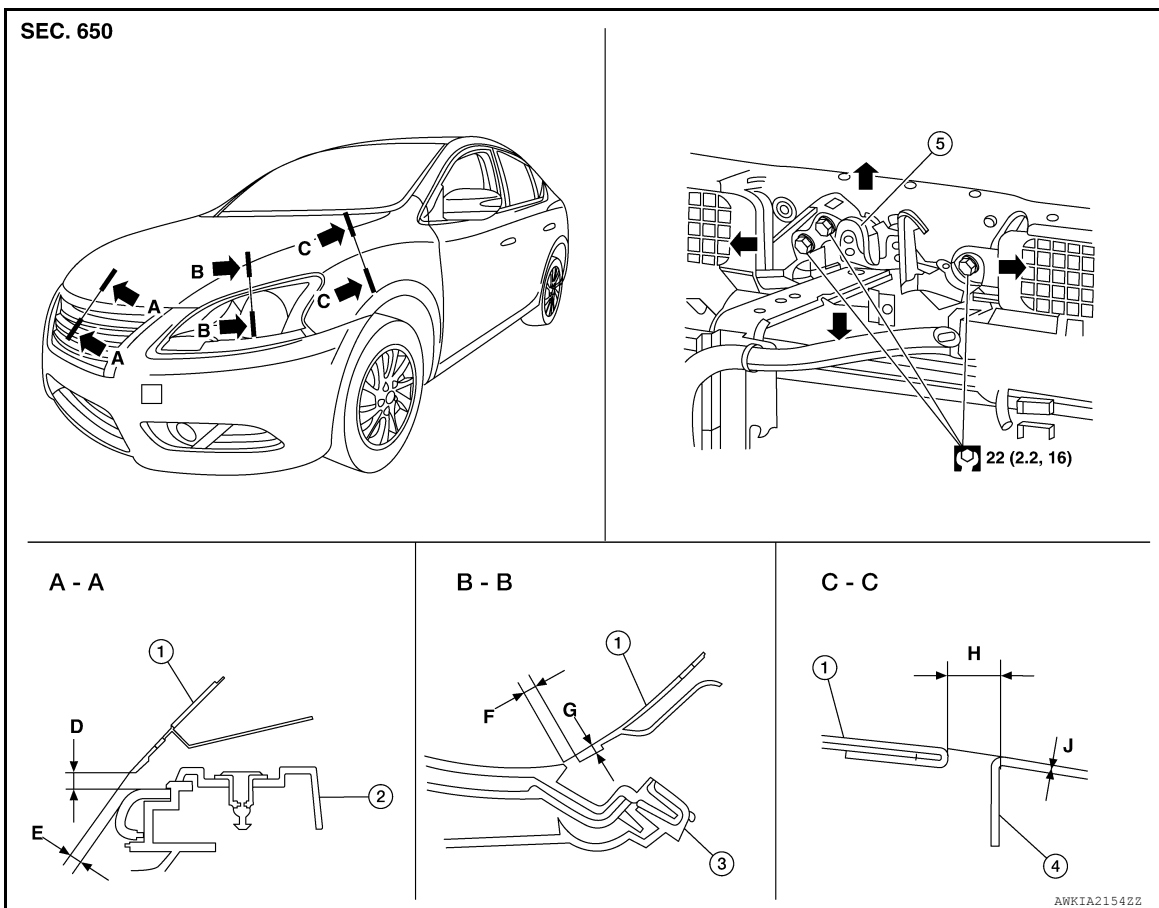
Tighten hood hinge to hood nuts to specified torque. Refer to [DLK-156, "HOOD ASSEMBLY : Exploded View"](#).

CAUTION:

- Before installing the hood hinge, apply anticorrosive agent onto the surface of the vehicle.
- After installation, perform the hood assembly adjustment procedure. Refer to [DLK-304, "HOOD ASSEMBLY : Adjustment"](#).

HOOD ASSEMBLY : Adjustment

INFOID:000000011536696



- Hood assembly
- Front grille

- Front fender
- Hood lock assembly

- Front combination lamp

Check the clearance and the surface height between hood and each part by visual inspection and tactile feel. If the clearance and the surface height are out of specification, adjust them according to the adjustment procedures.

HOOD

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

Unit: mm (in)

Section	Item	Measurement	Standard	Parallelism	Equality
A - A	D	Clearance	6.2 ±2.2 (0.24 ±0.09)	2.0	—
	E	Surface height	—	—	—
B - B	F	Clearance	3.5 ±2.0 (0.14 ±0.08)	2.0	3.0
	G	Surface height	3.6 ±2.0 (0.14 ±0.08)	2.0	2.0
C - C	H	Clearance	3.7 ±1.0 (0.15 ±0.04)	2.0	2.0
	J	Surface height	0.0 ±1.0 (0.00 ±0.04)	—	—

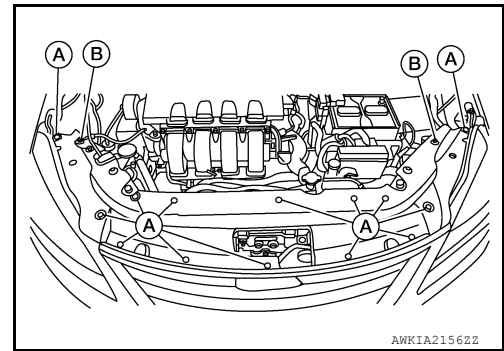
CLEARANCE ADJUSTMENT

1. Loosen hood hinge (LH/RH) nuts and bolts.

NOTE:

The anticorrosive agent applied between the hoodledge and the hood hinges also acts as an adhesive. This seal must be broken before the hinges will move.

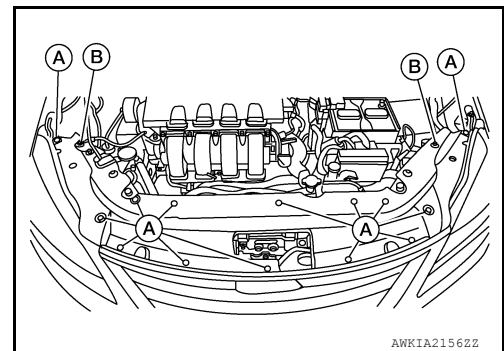
2. Remove the radiator core support upper cover clips (A) and bolts (B) and remove.



3. Loosen the hood lock assembly bolts.
4. Adjust the hood assembly so the clearance measurements are within specifications provided. Then tighten the hood hinge nuts and bolts to specified torque. Refer to [DLK-156, "HOOD ASSEMBLY : Exploded View"](#).
5. Tighten the hood lock assembly bolts to specified torque. Refer to [DLK-161, "HOOD LOCK CONTROL : Exploded View"](#).
6. Install the radiator core support upper cover.

HEIGHT ADJUSTMENT

1. Remove the radiator core support upper cover clips (A) and bolts (B) and remove.



2. Loosen the hood lock assembly bolts.

HOOD

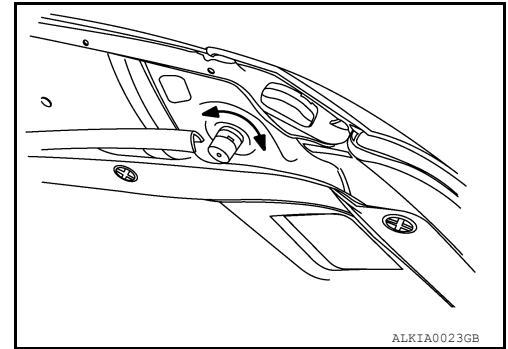
< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

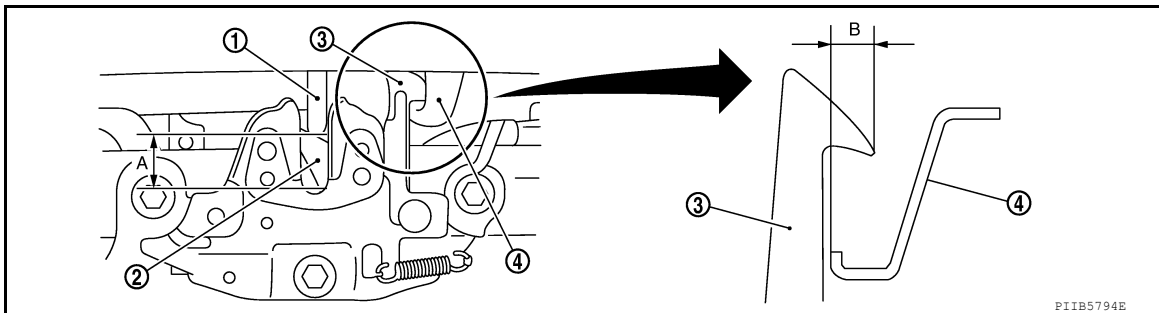
- Adjust the surface height of the hood assembly to front bumper fascia and front fender according to the specified values by rotating the hood bumper rubbers.

NOTE:

Only one hood bumper rubber shown for clarity.



- Temporarily tighten the hood lock assembly bolts.
- Adjust (A) and (B) as shown to the following value with hood's own weight by dropping it from approximately 200 mm (7.9 in) height or by pressing hood lightly [approximately 29 Nm (3.0 kg-m, 21 ft-lb)].



- | | | |
|--------------------|-------------------|----------------------|
| 1. Hood striker | 2. Primary latch | 3. Secondary striker |
| 4. Secondary latch | A. 20 mm (0.8 in) | B. 6.8 mm (0.27 in) |

- After adjustment, tighten hood hinge nuts and bolts to the specified torque. Refer to [DLK-156, "HOOD ASSEMBLY : Exploded View"](#).

CAUTION:

- Check hood hinge rotating part for poor lubrication. If necessary, apply a suitable multi-purpose grease.
- After adjusting, apply touch-up paint (body color) to the head of hood hinge bolts and nuts.

- Tighten the hood lock assembly bolts to specified torque.
- Install the radiator core support upper cover.
- If the clearance measurements between the hood and fender cannot be corrected by adjusting the hood, the fender must be adjusted. Refer to [DLK-167, "Adjustment"](#).

HOOD HINGE

HOOD HINGE : Removal and Installation

INFOID:000000011536697

REMOVAL

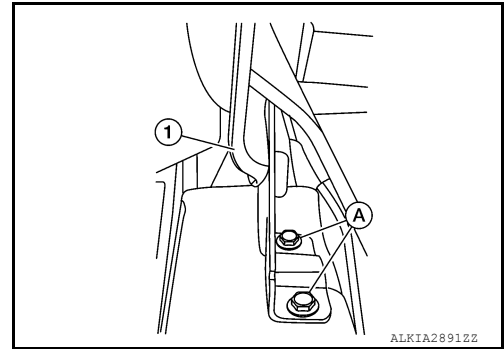
- Remove the fender protector. Refer to [EXT-29, "FENDER PROTECTOR : Removal and Installation - Front Fender Protector"](#).
- Remove the core support upper cover. Refer to [HA-39, "Exploded View"](#).
- Remove the front fascia. Refer to [EXT-18, "Removal and Installation"](#).
- Remove the front combination lamp. Refer to [EXL-120, "Removal and Installation"](#).
- Remove the front fender. Refer to [DLK-166, "Removal and Installation"](#).

HOOD

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

6. Remove hood hinge bolts (A) and hood hinge (1).



INSTALLATION

Installation is in the reverse order of removal.

Tighten bolts to specified torque. Refer to [DLK-156, "HOOD ASSEMBLY : Exploded View"](#).

CAUTION:

- Before installing the hood hinge, apply anticorrosive agent onto the surface of the vehicle.
- After installation, perform hood assembly adjustment procedure. Refer to [DLK-304, "HOOD ASSEMBLY : Adjustment"](#).

HOOD SUPPORT ROD

HOOD SUPPORT ROD : Removal and Installation

INFOID:000000011536698

REMOVAL

1. Support hood assembly using a suitable tool.

WARNING:

Bodily injury may occur if hood assembly is not supported properly when removing hood support rod.

2. Rotate and remove hood support rod from grommet.
3. Remove grommet from hood hinge using a suitable tool (if necessary).

INSTALLATION

Installation is in the reverse order of removal.

HOOD LOCK CONTROL

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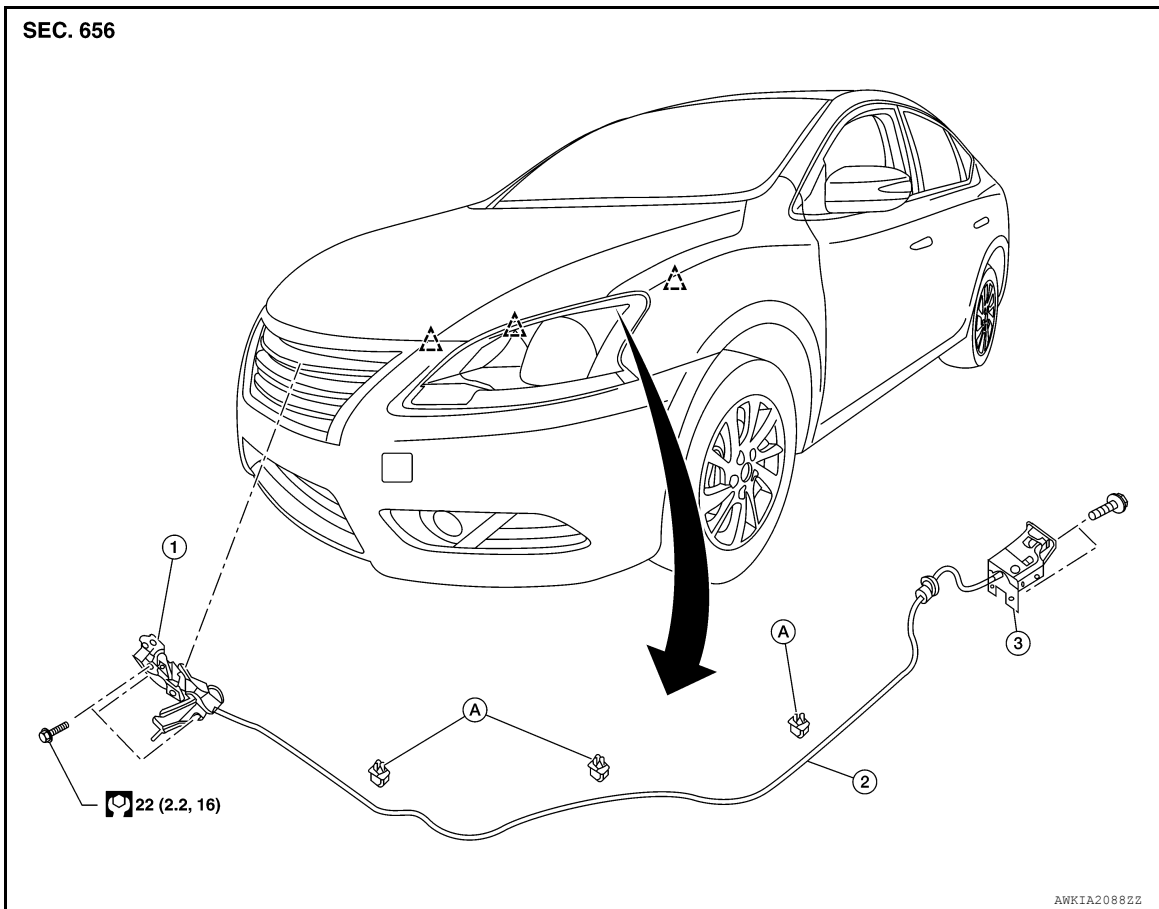
HOOD

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

HOOD LOCK CONTROL : Exploded View

INFOID:000000011536699



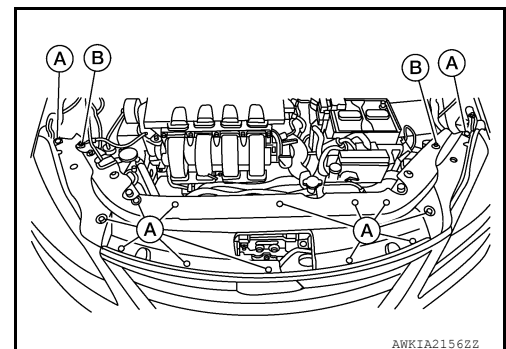
- 1. Hood lock assembly
- 2. Hood lock release cable
- 3. Hood lock/fuel filler door release handle assembly
- A. Hood lock release cable clip
- △ Clip

HOOD LOCK CONTROL : Removal and Installation

INFOID:000000011536700

REMOVAL

1. Remove the fender protector (LH). Refer to [EXT-29. "FENDER PROTECTOR : Removal and Installation - Front Fender Protector"](#).
2. Remove the radiator core support upper cover clips (A) and bolts (B) and remove.

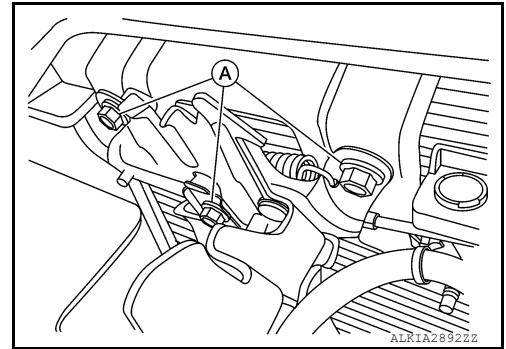


HOOD

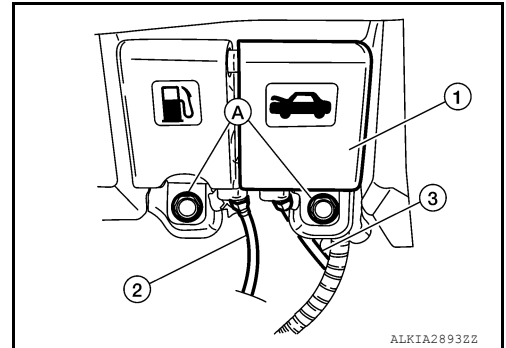
< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

3. Remove the hood lock assembly bolts (A).



4. Disconnect the hood lock release cable from the hood lock assembly.
5. Remove the bolts (A), then separate the hood lock/fuel filler door release handle assembly (1) from the hood lock release cable (3) and fuel filler door release cable (2).



6. Remove the grommet from the dash assembly and pull the hood lock release cable into the passenger compartment.

CAUTION:

While pulling, be careful not to damage (peel) the outside of the hood lock release cable.

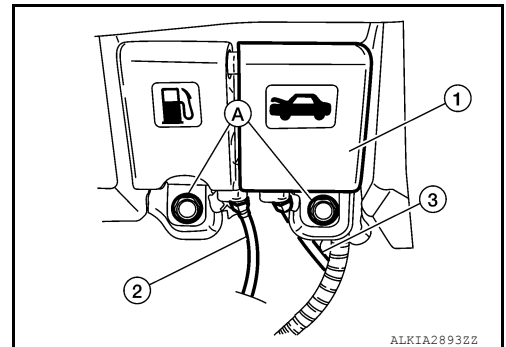
INSTALLATION

1. Pull the hood lock release cable through the dash assembly into the engine compartment.

CAUTION:

Be careful not to bend the cable too much, keep the radius 100 mm (3.94 in) or more.

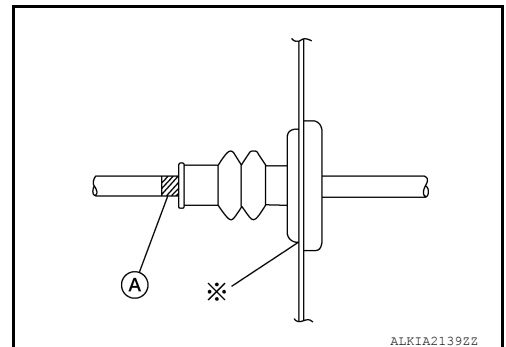
2. Attach the hood lock release cable (3) and the fuel filler door release cable (2) to the hood lock/fuel filler door release handle assembly (1).
3. Place hood lock/fuel filler door release handle assembly in position and retain with bolts (A).



4. Check that the cable is not offset from the center of the grommet and seat the grommet into the dash hole.

NOTE:

Make sure that the marked area (A) of the cable is located as shown after mounting grommet to dash upper assembly. Apply sealant around the grommet at * mark.



5. Position the hood lock release cable and clip it into place.

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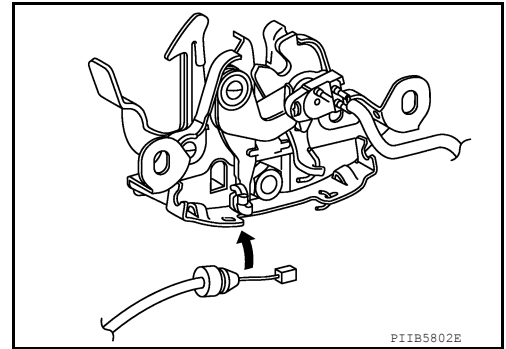
DLK

HOOD

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

6. Connect the hood lock release cable to the hood lock assembly.



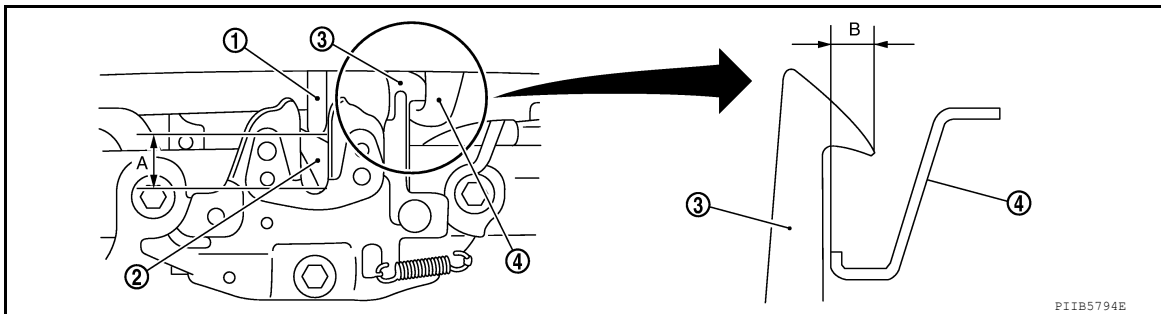
7. Perform hood fitting adjustment. Refer to [DLK-304, "HOOD ASSEMBLY : Adjustment"](#).
8. Perform the hood lock control inspection.

INSPECTION

NOTE:

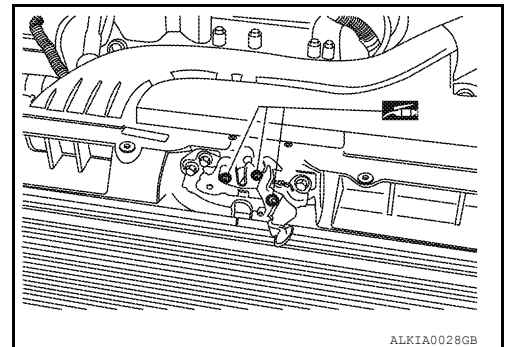
If the hood lock release cable is bent or deformed, replace it.

1. Check that the secondary latch is properly engaged with the secondary striker and meets specification provided (B) with hood's own weight.



- | | | |
|--------------------|-------------------|----------------------|
| 1. Hood striker | 2. Primary latch | 3. Secondary striker |
| 4. Secondary latch | A. 20 mm (0.8 in) | B. 6.8 mm (0.27 in) |

2. While operating the hood lock release handle, carefully check that the front end of the hood assembly is raised and meets the specification provided (A). Also check that the hood lock release handle returns to the original position.
3. Check that the hood lock release handle operating force is 49 N (5.0 kg, 11 lb) or less.
4. Install so the static closing force of the hood assembly is 49 – 490 N (5.0 – 50 kg-f, 36 - 110.2 lb-f).
5. Check the hood lock assembly lubrication condition. If necessary, apply a suitable multi-purpose grease as shown.



RADIATOR CORE SUPPORT

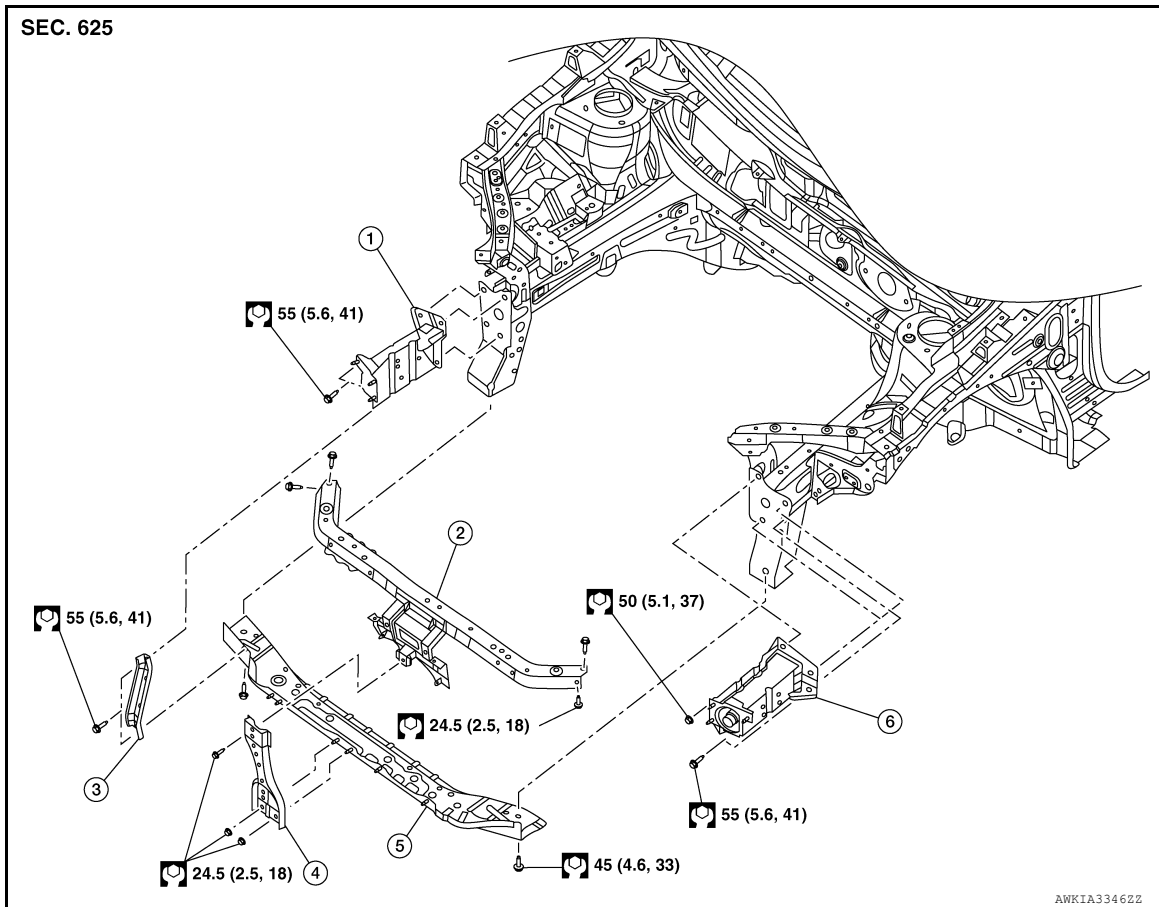
< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

RADIATOR CORE SUPPORT

Exploded View

INFOID:000000011536701



- | | | |
|----------------------------------|-----------------------|----------------------------------|
| 1. Core support side member (RH) | 2. Core support upper | 3. Core support lower stay |
| 4. Hood lock support | 5. Core support lower | 6. Core support side member (LH) |

Removal and Installation

INFOID:000000011536702

REMOVAL

CAUTION:

Before servicing, turn ignition switch OFF, disconnect both battery terminals and wait at least three minutes.

1. Disconnect the battery negative and positive terminals then wait at least three minutes. Refer to [PG-74, "Removal and Installation \(Battery\)"](#).
2. Remove crash zone sensor. Refer to [SR-25, "Removal and Installation"](#).
3. Remove radiator. Refer to [CO-15, "Removal and Installation"](#).
4. Remove the condenser (if equipped). Refer to [HA-39, "CONDENSER : Removal and Installation"](#).
5. Remove the horns. Refer to [HRN-6, "Removal and Installation"](#).
6. Remove air guides (LH/RH).
7. Remove the hood lock support bolts and hood lock support.
8. Remove the core support lower stay bolts and core support lower stay.
9. Remove the core support lower bolts and core support lower.
10. Remove the core support side member nuts and bolts and remove the core support side member (if necessary).

INSTALLATION

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RADIATOR CORE SUPPORT

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

Installation is in the reverse order of removal.

Tighten bolts to specification. Refer to [DLK-164, "Exploded View"](#).

CAUTION:

After installation, perform hood fitting adjustment. Refer to [DLK-157, "HOOD ASSEMBLY : Adjustment"](#).

FRONT FENDER

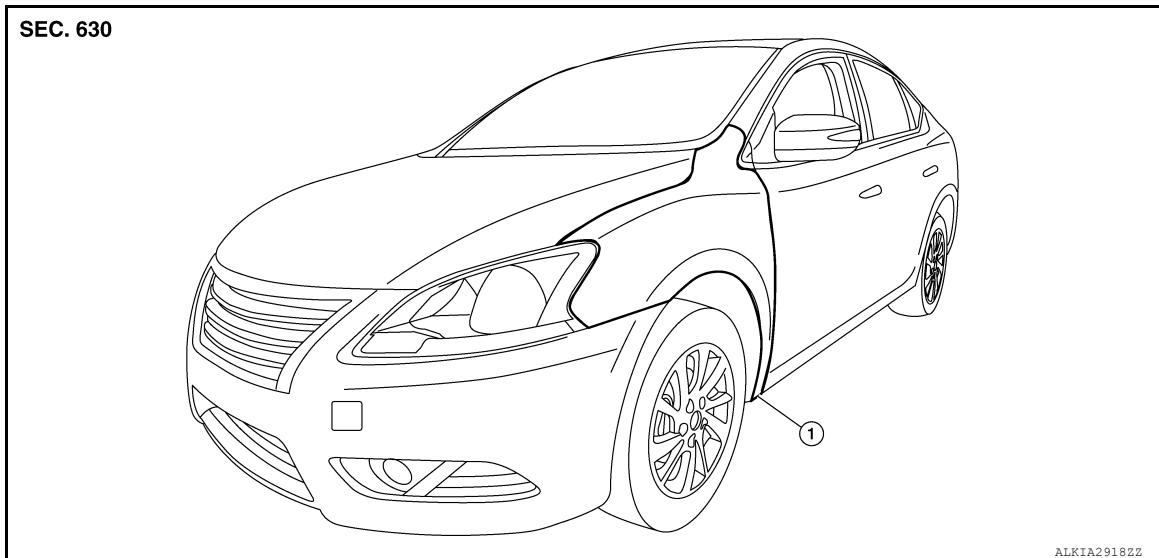
< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

FRONT FENDER

Exploded View

INFOID:000000011536703



1. Front fender

Removal and Installation

INFOID:000000011536704

REMOVAL

1. Remove the front combination lamp. Ref to [EXL-120. "Removal and Installation"](#).
2. Remove the front bumper fascia. Refer to [EXT-18. "Removal and Installation"](#).
3. Remove the front fender protector. Refer to [EXT-29. "FENDER PROTECTOR : Removal and Installation - Front Fender Protector"](#).
4. Remove the front fender bolts and the front fender.

CAUTION:

Use shop cloths to protect the body from being damaged during removal and installation.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

After installation, perform fender adjustment procedure. Refer to [DLK-314. "Adjustment"](#).

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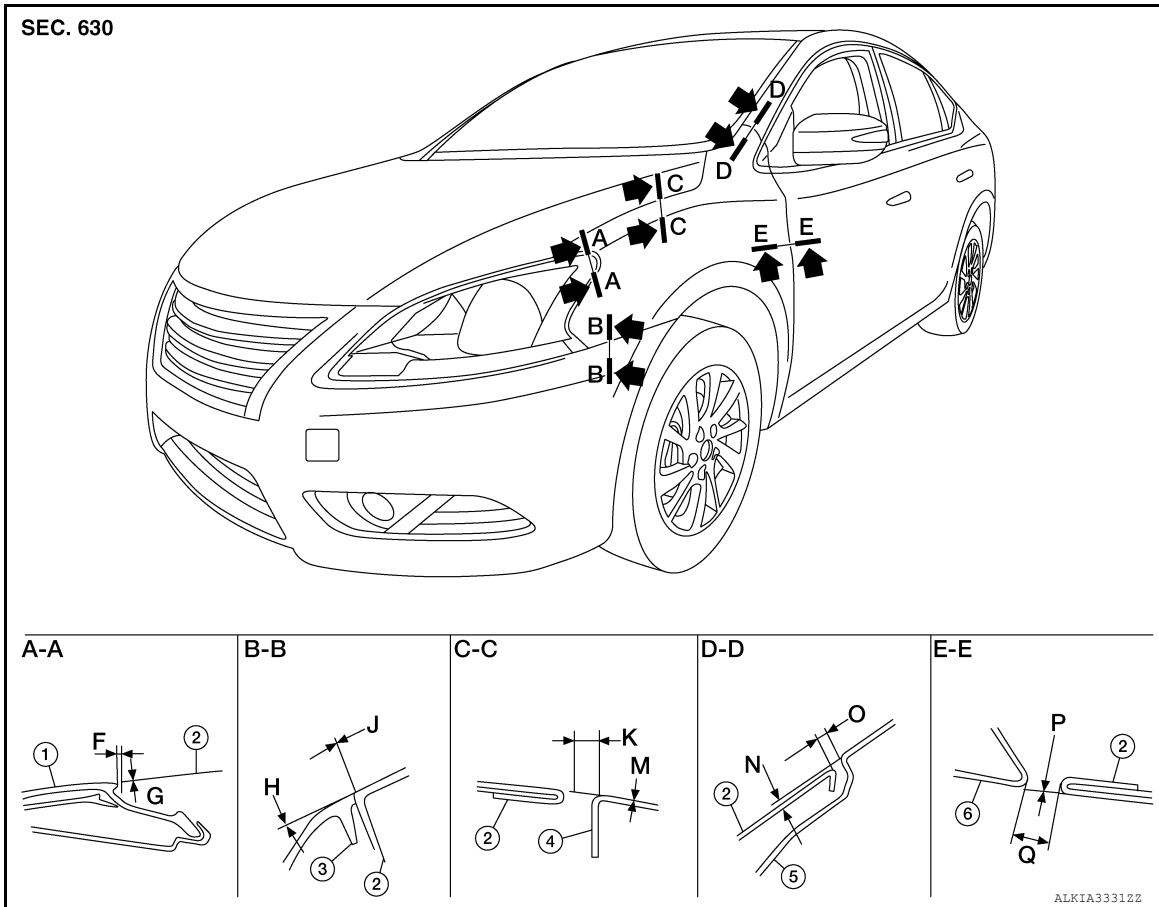
FRONT FENDER

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

Adjustment

INFOID:000000011536705



- 1. Front combination lamp assembly 2. Fender 3. Front bumper fascia
- 4. Hood assembly 5. Body side outer 6. Front door

Check the clearance and the surface height between hood and each part by visual inspection and tactile feel. If the clearance and the surface height are out of specification, adjust them according to the adjustment procedures.

Unit: mm (in)

Section	Item	Measurement	Standard
A – A	F	Clearance	1.5 +1.2, -1.0 (0.06 + 0.05, -0.04)
	G	Surface height	3.9 ± 1.2 (0.15 ± 0.05)
B – B	H	Surface height	0.7 ± 1.0 (0.03 ± 0.04)
	J	Clearance	0.0 ± 1.0 (0.00 ± 0.04)
C – C	K	Clearance	3.7 ± 1.0 (0.15 ± 0.04)
	M	Surface height	0.0 ± 1.0 (0.00 ± 0.04)
D – D	N	Surface height	0.0 ± 1.0 (0.00 ± 0.04)
	O	Clearance	3.0 ± 1.0 (0.12 ± 0.04)
E – E	P	Surface height	—
	Q	Clearance	—

Adjustment

1. Remove front bumper fascia. Refer to [EXT-18, "Removal and Installation"](#).
2. Remove the front fender protector. Refer to [EXT-29, "FENDER PROTECTOR : Removal and Installation - Front Fender Protector"](#).

FRONT FENDER

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

3. Loosen the front fender bolts.
4. Adjust the clearance (Q) and surface height (P) between the front fender and the front door. A
5. Tighten the rear upper and lower front fender bolts.
6. Adjust the clearance (K) and surface height (M) between the front fender and the hood. B
7. Adjust the clearance (O) and surface height (N) between the front fender and the body side outer. B
8. Tighten the inner front fender bolts.
9. Adjust the clearance (J) and the surface height (H) between the front fender and the front fascia. C
10. Tighten the front fender to front fascia and bracket screws.
11. Install front bumper fascia. Refer to [EXT-18, "Removal and Installation"](#).
12. Install front combination lamp. Refer to [EXL-120, "Removal and Installation"](#). D
13. Install the front fender protector. Refer to [EXT-29, "FENDER PROTECTOR : Removal and Installation - Front Fender Protector"](#). D

CAUTION:

- If the clearance measurements cannot be corrected by adjusting the fender, adjust the following as necessary. E
- Hood assembly: Refer to [DLK-157, "HOOD ASSEMBLY : Adjustment"](#). F
- Front door: Refer to [DLK-171, "DOOR ASSEMBLY : Adjustment"](#). F
- After adjusting, apply touch-up paint (body color) to the head of the front fender bolts. G

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FRONT DOOR

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

FRONT DOOR DOOR ASSEMBLY

DOOR ASSEMBLY : Removal and Installation

INFOID:000000011536706

CAUTION:

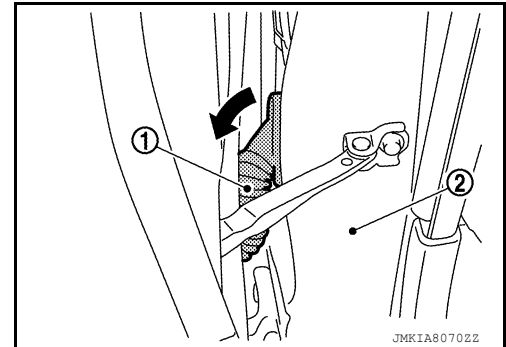
- Use two people when removing or installing the front door assembly due to its heavy weight.
- When removing and installing front door assembly, support front door using a suitable tool.
- Do not use air tools or electric tools for servicing.
- Before servicing, turn ignition switch OFF, disconnect both battery terminals and wait at least three minutes.

NOTE:

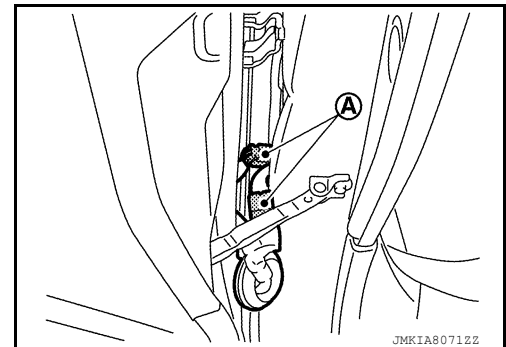
LH side shown; RH side similar.

REMOVAL

1. Disconnect the battery negative and positive terminals and wait at least three minutes, if equipped with the side air bag (satellite) sensor. Refer to [PG-74, "Removal and Installation \(Battery\)"](#).
2. Remove front door assembly harness grommet LH (1) then pull out door harness from body (2).



3. Disconnect the harness connectors (A) from the front door assembly harness.



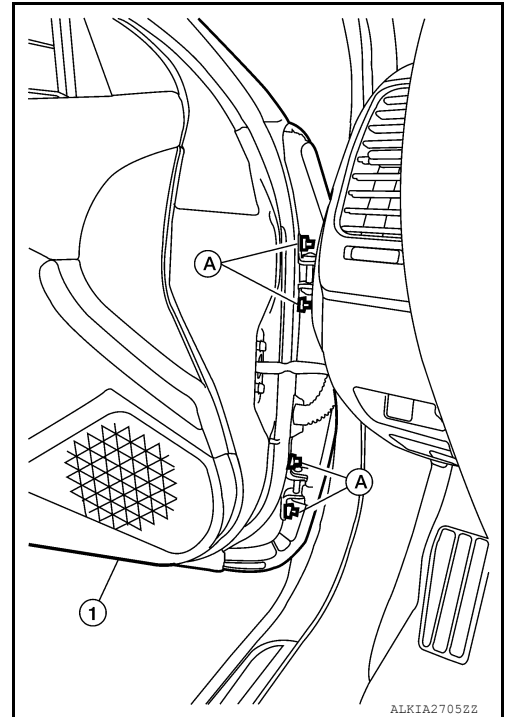
4. Remove check link bolt (body side).

FRONT DOOR

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

5. Remove front door assembly hinge nuts (A) (door side) and the door assembly (1).



INSTALLATION

Installation is in the reverse order of removal.
Tighten door hinge nuts to specified torque.

CAUTION:

- After installation, check front door open/close, lock/unlock operation.
- After installation, perform the front door adjustment procedure. Refer to [DLK-318, "DOOR ASSEMBLY : Adjustment"](#).

NOTE:

When main power window and door lock/unlock switch is removed or replaced, it is necessary to perform the initialization procedure. Refer to [PWC-28, "Work Procedure"](#).

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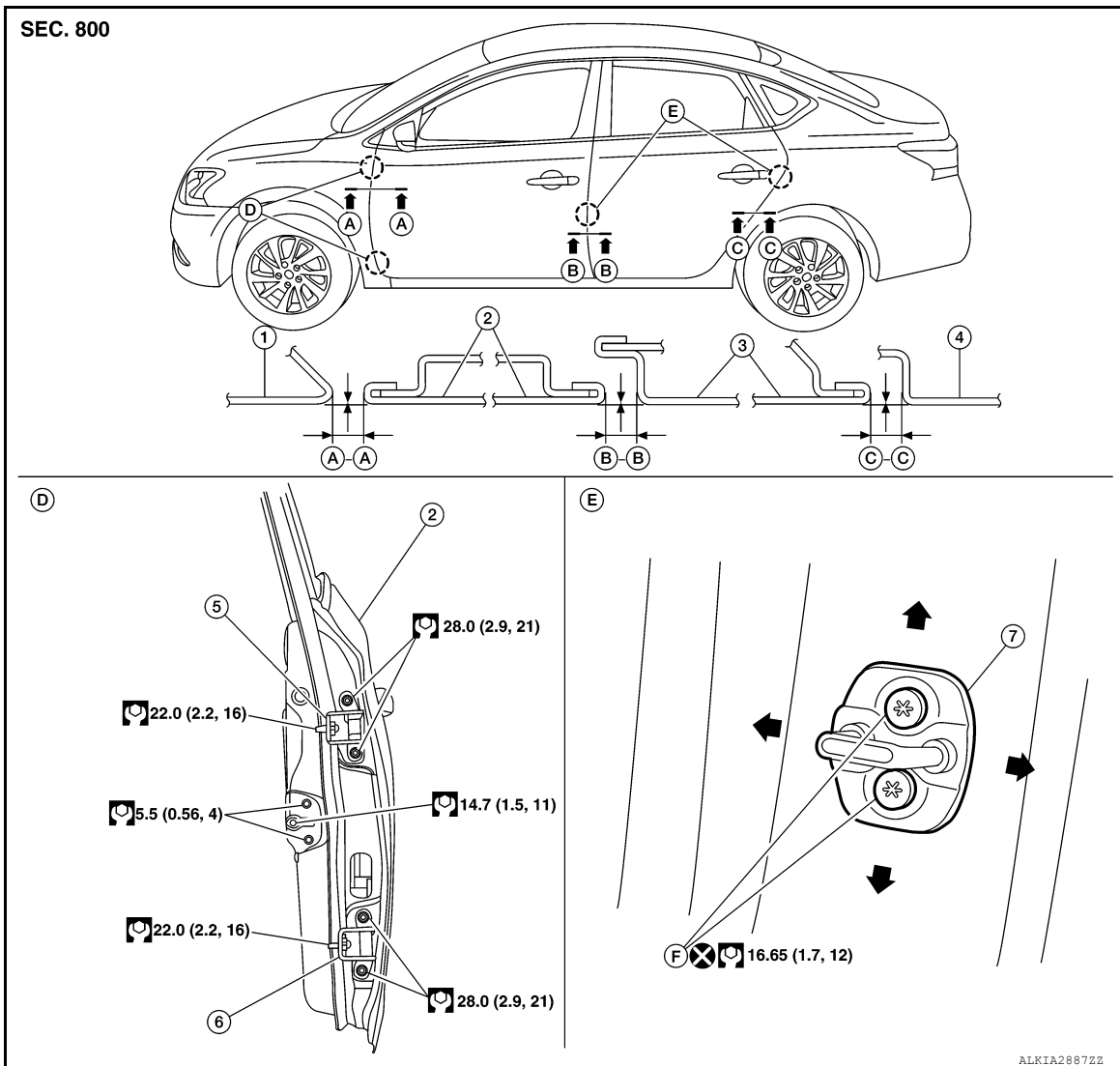
FRONT DOOR

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

DOOR ASSEMBLY : Adjustment

INFOID:000000011536707



- 1. Front fender
- 2. Front door assembly
- 3. Rear door assembly
- 4. Body side outer
- 5. Front door upper hinge
- 6. Front door lower hinge
- 7. Front door striker
- F. Front door striker bolts

Check the clearance and surface height between front door and each part by visual inspection and tactile feel. If the clearance and the surface height are out of specification, adjust them according to the adjustment procedure.

Unit: mm (in)

Section	Item	Measurement	Standard
A – A	G	Clearance	4.0 ± 1.0 (0.16 ± 0.04)
	H	Surface height	0.0 ± 1.0 (0.0 ± 0.04)
B – B	H	Clearance	4.2 ± 1.0 (0.17 ± 0.04)
	J	Surface height	0.0 ± 1.0 (0.0 ± 0.04)
C – C	J	Clearance	4.0 ± 1.0 (0.16 ± 0.04)
	K	Surface height	0.0 ± 1.0 (0.0 ± 0.04)

LONGITUDINAL CLEARANCE

1. Remove the front fender. Refer to [DLK-166. "Removal and Installation"](#).

FRONT DOOR

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

2. Loosen the front door hinge to body bolts. Move the door forward or backward as necessary until within specifications provided.
3. Tighten the hinge to body bolts to specified torque.

Front door hinge bolts

22.0 N·m (2.2 kg-m, 16 ft-lb)

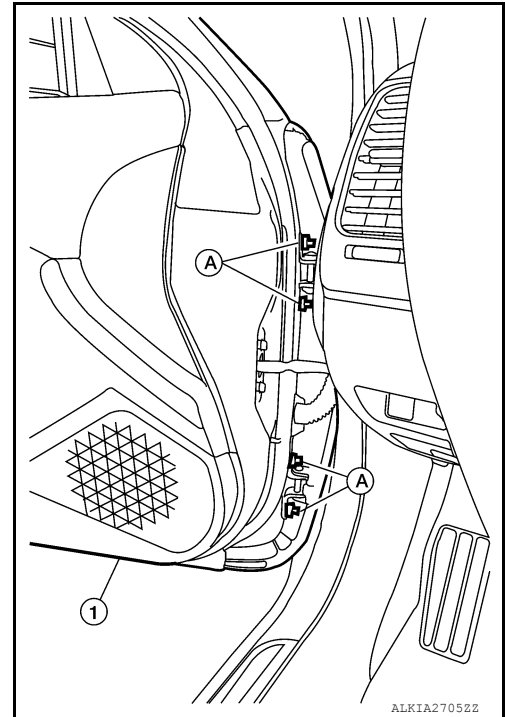
4. Install the front fender. Refer to [DLK-166, "Removal and Installation"](#).

SURFACE HEIGHT ADJUSTMENT

1. Loosen the front door hinge nuts (A).
2. Move the top and/or bottom of the door (1) in or out as necessary until it is within specifications provided.
3. Tighten the front door hinge nuts to specified torque.

Front door hinge nuts

28.0 N·m (2.9 kg-m, 21 ft-lb)



CAUTION:

- Check front door hinge rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.
- After adjusting, apply touch-up paint (body color) to the head of front door hinge bolts and nuts.
- If the clearance measurements cannot be corrected by adjusting the front door assembly, adjust the following as necessary.
 - Front fender: Refer to [DLK-167, "Adjustment"](#).
 - Rear door: Refer to [DLK-176, "DOOR ASSEMBLY : Adjustment"](#).

DOOR STRIKER ADJUSTMENT

Adjust front door assembly striker so that it becomes parallel with door lock insertion direction.

DOOR HINGE

DOOR HINGE : Removal and Installation

INFOID:000000011536708

REMOVAL

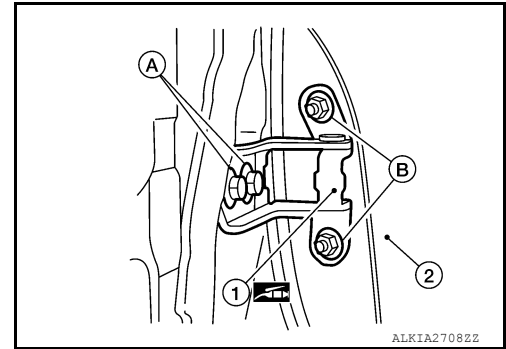
1. Remove front door fender. Refer to [DLK-313, "Removal and Installation"](#).
2. Remove front door assembly (2). Refer to [DLK-316, "DOOR ASSEMBLY : Removal and Installation"](#).
3. Remove bolt (A) and door hinge (1).

FRONT DOOR

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

4. Remove door hinge bolts (B) and remove hinge (1).



INSTALLATION

Installation is in the reverse order of removal.

Tighten front door hinge bolts to specified torque. [DLK-171, "DOOR ASSEMBLY : Adjustment"](#)

CAUTION:

- Apply anticorrosive agent onto the front door hinge mating surface.
- After installation, check front door open/close, lock/unlock operation.
- After installation, perform the front door adjustment procedure. Refer to [DLK-318, "DOOR ASSEMBLY : Adjustment"](#).

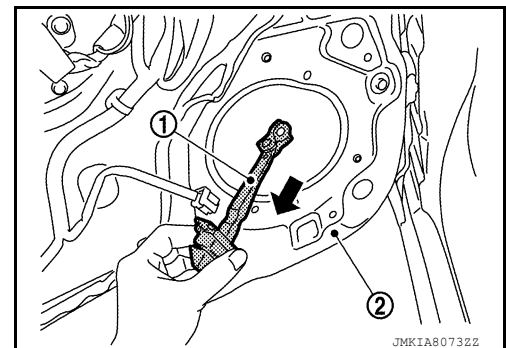
DOOR CHECK LINK

DOOR CHECK LINK : Removal and Installation

INFOID:000000011536709

REMOVAL

1. Fully close the front door glass.
2. Remove front door speaker. Refer to [AV-56, "Removal and Installation"](#) (BASE AUDIO), [AV-117, "Removal and Installation"](#) (DISPLAY AUDIO SYSTEM) [AV-320, "Removal and Installation"](#) (NAVIGATION WITH BOSE) and [AV-211, "Removal and Installation"](#) (NAVIGATION WITHOUT BOSE).
3. Remove door check link bolt from body.
4. Remove door check link bolts on door panel.
5. Remove door check link (1) through the hole in door panel (2).



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

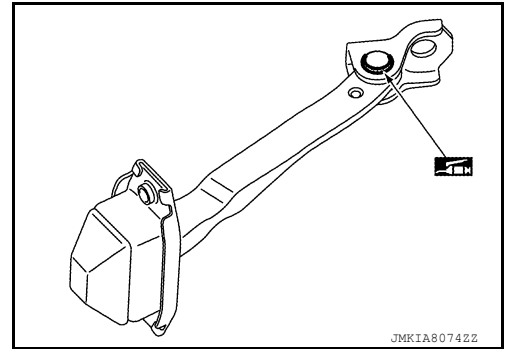
- After installation, check front door open/close, lock/unlock operation.
- Check front door check link rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.

FRONT DOOR

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

 Grease



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REAR DOOR

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

REAR DOOR DOOR ASSEMBLY

DOOR ASSEMBLY : Removal and Installation

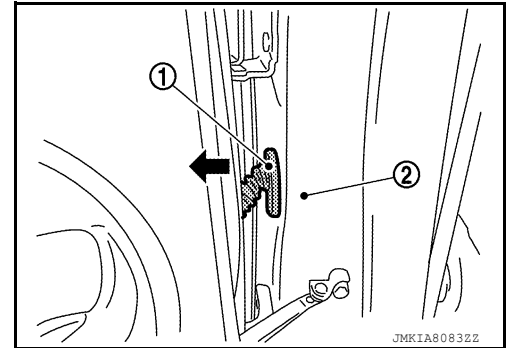
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CAUTION:

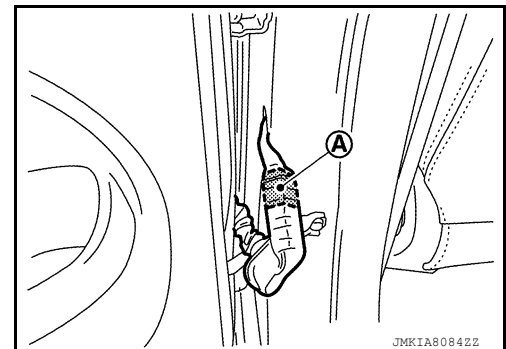
- Use two people when removing or installing the rear door assembly due to its heavy weight.
- When removing and installing rear door assembly, support rear door with a suitable tool.

REMOVAL

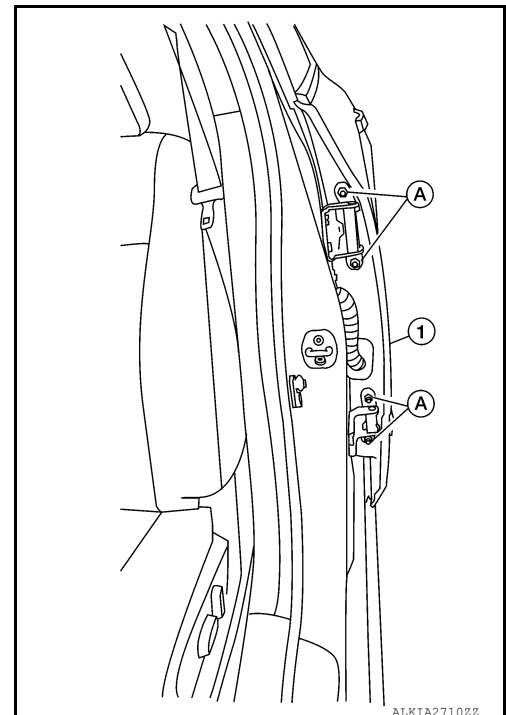
1. Remove rear door assembly harness grommet (LH) (1) then pull out door harness from body (2).



2. Disconnect the harness connector (A) from the door harness.



3. Remove the check link bolt from the body.
4. Remove rear door assembly hinge nuts (A) (door side) and the door assembly (1).



REAR DOOR

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

INSTALLATION

Installation is in the reverse order of removal.
Tighten rear door hinge nuts (door side) to specified torque.

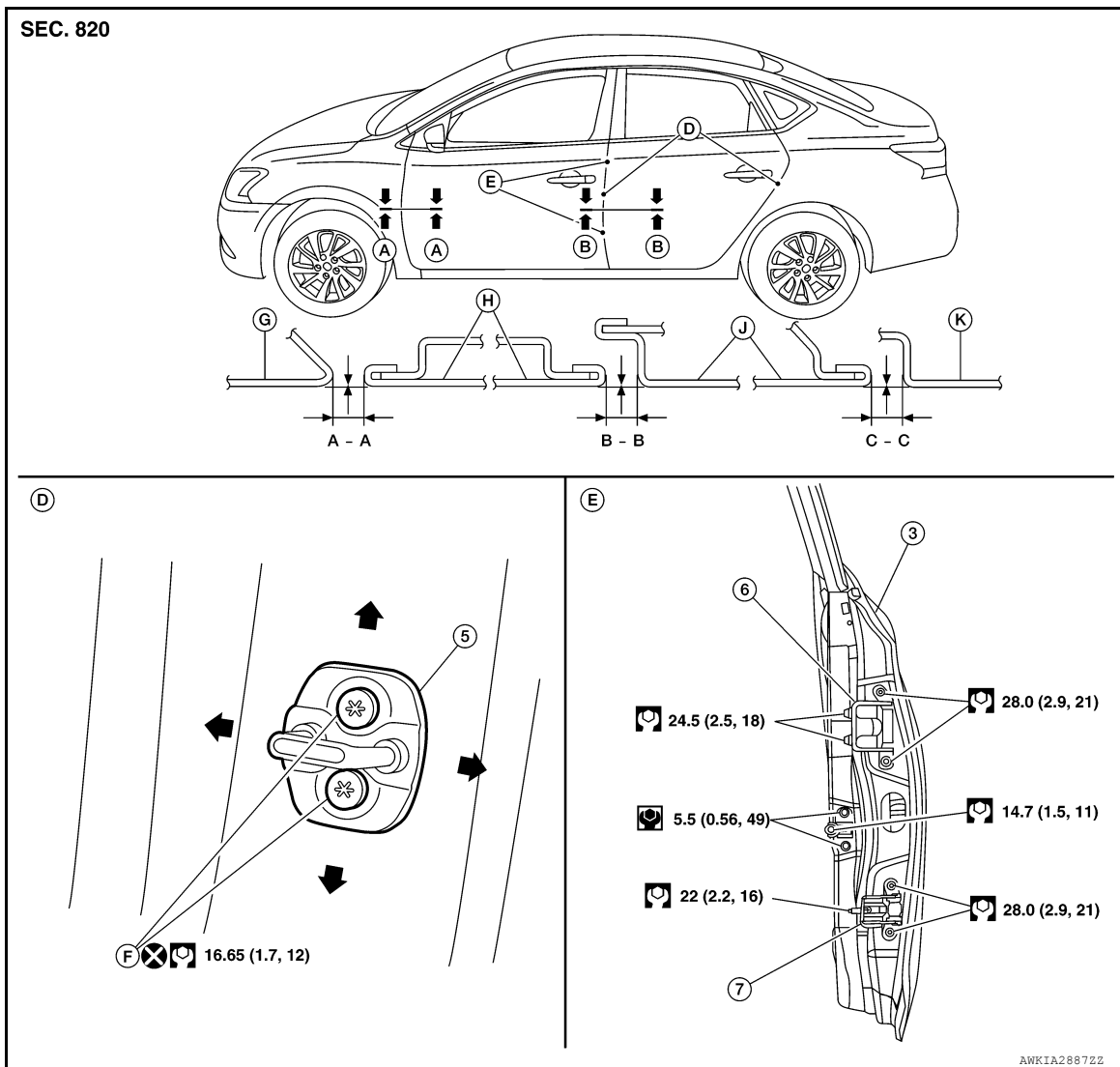
CAUTION:

- After installation, check rear door open/close, lock/unlock operation.
- After installation, perform the rear door adjustment procedure. Refer to [DLK-323, "DOOR ASSEMBLY : Adjustment"](#).

DOOR ASSEMBLY : Adjustment

INFOID:000000011536711

ADJUSTMENT



- | | | |
|--------------------------|-----------------------------|--------------------------|
| 1. Front fender | 2. Door assembly | 3. Rear door assembly |
| 4. Body side outer | 5. Rear door striker | 6. Rear door upper hinge |
| 7. Rear door lower hinge | F. Rear door striker screws | |

Check the clearance and surface height between rear door and each part by visual inspection and tactile feel. If the clearance and the surface height are out of specification, adjust them according to the adjustment procedure.

REAR DOOR

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

Unit: mm (in)

Section	Item	Measurement	Standard
A – A	G	Clearance	4.0 ± 1.0 (0.16 ± 0.04)
	H	Surface height	0.0 ± 1.0 (0.0 ± 0.04)
B – B	H	Clearance	4.2 ± 1.0 (0.17 ± 0.04)
	J	Surface height	0.0 ± 1.0 (0.0 ± 0.04)
C – C	J	Clearance	4.0 ± 1.0 (0.16 ± 0.04)
	K	Surface height	0.0 ± 1.0 (0.0 ± 0.04)

LONGITUDINAL CLEARANCE

1. Remove the center pillar upper finisher. Refer to [INT-28, "CENTER PILLAR UPPER FINISHER : Removal and Installation"](#).
2. Loosen the rear door upper hinge nuts.
3. Loosen the rear door lower hinge bolts.
4. Move the rear door forward or backward as necessary until within specifications provided.
5. Tighten the lower hinge bolts to specification.

Rear door lower hinge bolts

22 N·m (2.2 kg-m, 16 ft-lb)

6. Tighten the upper hinge nuts to specification.

Rear door upper hinge nuts

24.5 N·m (2.5 kg-m, 18 ft-lb)

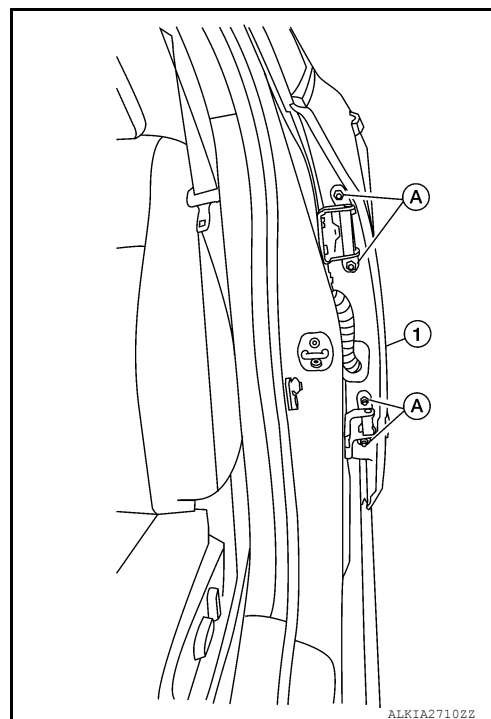
7. Install the center pillar upper finisher. Refer to [INT-28, "CENTER PILLAR UPPER FINISHER : Removal and Installation"](#).

SURFACE HEIGHT ADJUSTMENT

1. Loosen the rear door hinge nuts (door side) (A).
2. Move the top and/or the bottom of the rear door (1) in or out as necessary until it is within specifications provided.
3. Tighten the rear door hinge nuts (door side) (A) to specification.

Rear door nuts

28.0 N·m (2.9 kg-m, 21 ft-lb)



CAUTION:

- Check rear door hinge rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.
- After adjusting, apply touch-up paint (body color) to the head of rear door assembly hinge bolts and nuts.

REAR DOOR

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

- If the clearance measurements cannot be corrected by adjusting the rear door, adjust the front door. Refer to [DLK-171, "DOOR ASSEMBLY : Adjustment"](#).

DOOR STRIKER ADJUSTMENT

Adjust rear door assembly striker so that it becomes parallel with door lock insertion direction.

DOOR HINGE

DOOR HINGE : Removal and Installation

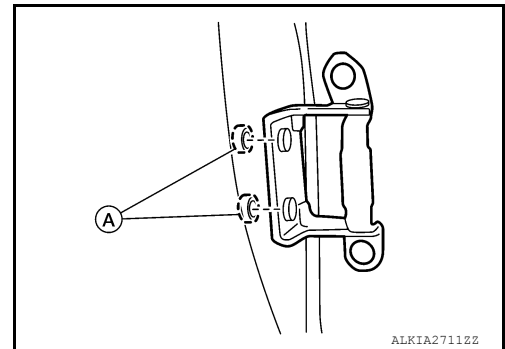
INFOID:000000011536712

CAUTION:

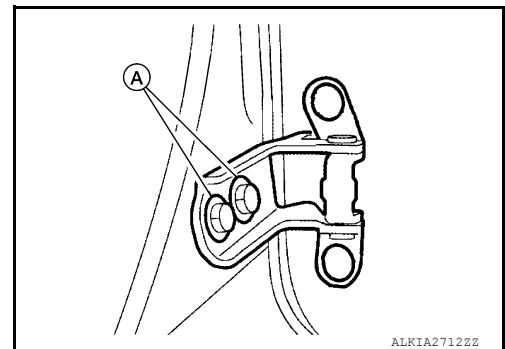
- Use two people when removing or installing rear door assembly due to its heavy weight.
- When removing and installing rear door assembly, support door using a suitable tool.

REMOVAL

1. Remove rear door assembly. Refer to [DLK-322, "DOOR ASSEMBLY : Removal and Installation"](#).
2. Remove center pillar upper finisher (upper hinge only). Refer to [INT-28, "CENTER PILLAR UPPER FINISHER : Removal and Installation"](#).
3. Remove rear door assembly upper hinge nuts (A) and remove.



4. Remove rear door assembly lower hinge bolts (A) and remove.



INSTALLATION

Installation is in the reverse order of removal.

Tighten rear door assembly hinge nuts and bolts to specified torque. Refer to [DLK-176, "DOOR ASSEMBLY : Adjustment"](#)

CAUTION:

- Apply anticorrosive agent onto the hinge mating surface.
- After installation, check rear door open/close, lock/unlock operation.
- After installation, perform the rear door adjustment procedure. Refer to [DLK-323, "DOOR ASSEMBLY : Adjustment"](#).

DOOR CHECK LINK

DOOR CHECK LINK : Removal and Installation

INFOID:000000011536713

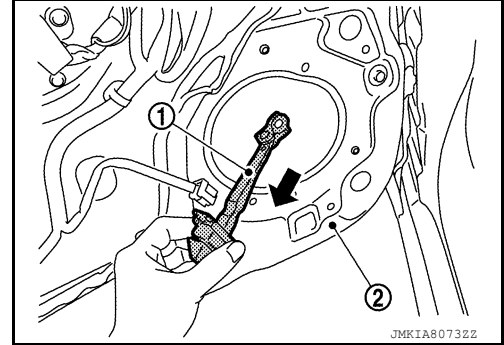
REMOVAL

REAR DOOR

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

1. Fully close the rear door glass.
2. Remove rear door speaker. Refer to [AV-57, "Removal and Installation"](#) (BASE AUDIO), [AV-118, "Removal and Installation"](#) (DISPLAY AUDIO SYSTEM) [AV-321, "Removal and Installation"](#) (NAVIGATION WITH BOSE) and [AV-212, "Removal and Installation"](#) (NAVIGATION WITHOUT BOSE).
3. Remove door check link bolt from body.
4. Remove door check link bolts on door panel.
5. Remove door check link (1) through the hole in door panel (2).

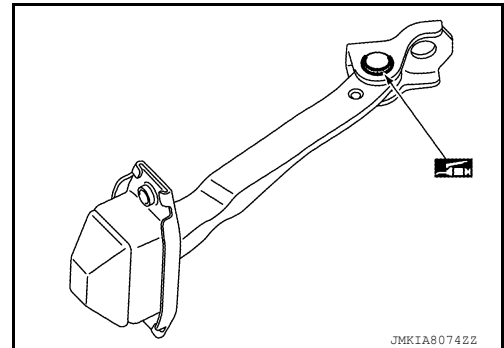


INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- After installation, check rear door open/close, lock/unlock operation.
- Check rear door check link rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.



DOOR HANDLE

< REMOVAL AND INSTALLATION >

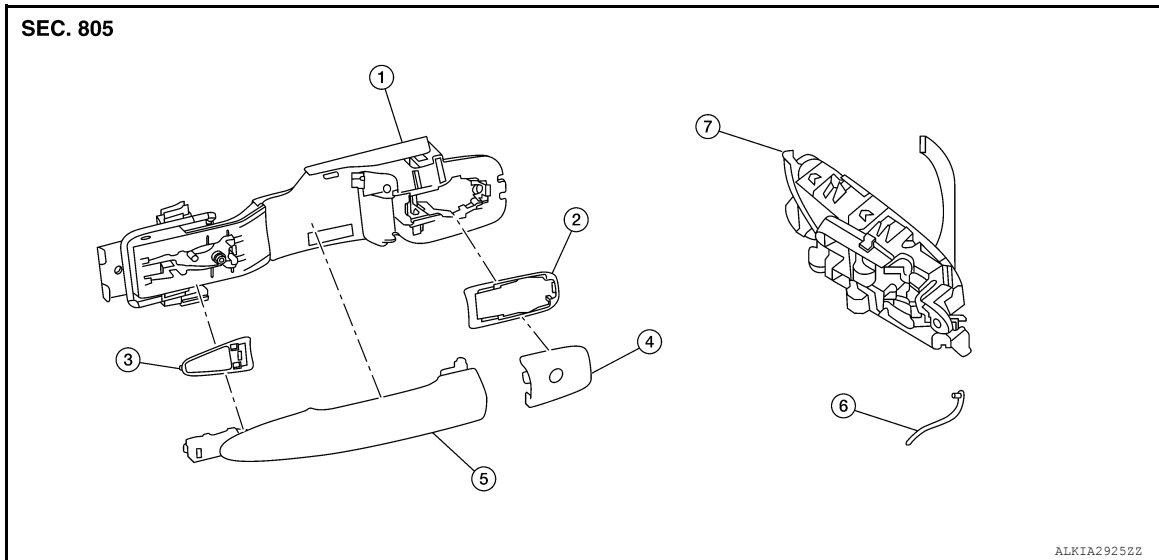
[WITHOUT INTELLIGENT KEY SYSTEM]

DOOR HANDLE

FRONT DOOR HANDLE

FRONT DOOR HANDLE : Exploded View

INFOID:000000011536714



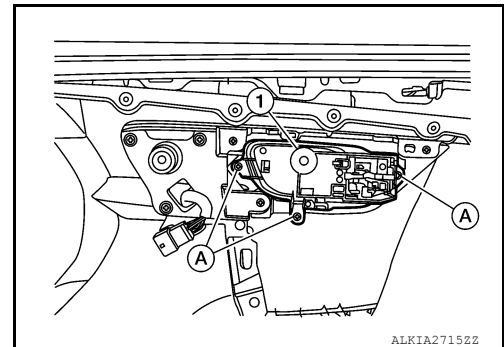
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| 1. Outside handle bracket | 2. Rear gasket | 3. Front gasket |
| 4. Outside handle escutcheon | 5. Outside handle | 6. Door key cylinder rod |
| 7. Inside handle assembly | | |

FRONT DOOR HANDLE : Removal and Installation - Inside Handle

INFOID:000000011536715

REMOVAL

1. Remove front door finisher. Refer to [INT-15. "Removal and Installation"](#).
2. Remove inside handle assembly screws (A) and the inside handle assembly (1).



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Check front door lock cables are properly engaged to inside handle.
- After installation, check front door open/close, lock/unlock operation.

FRONT DOOR HANDLE : Removal and Installation - Outside Handle

INFOID:000000011536716

REMOVAL

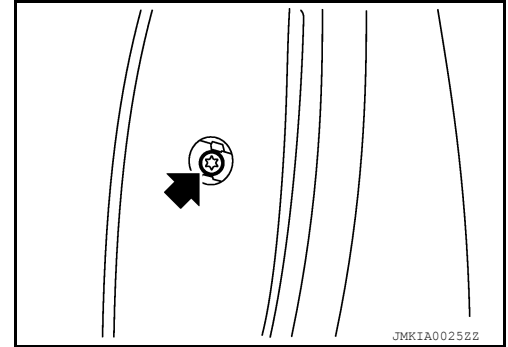
1. Fully close front door glass.
2. Remove front door finisher. Refer to [INT-15. "Removal and Installation"](#).
3. Remove front door vapor barrier.

DOOR HANDLE

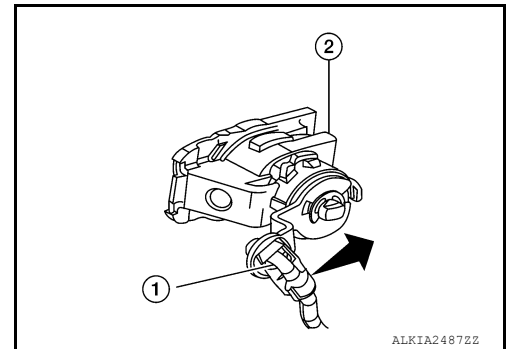
< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

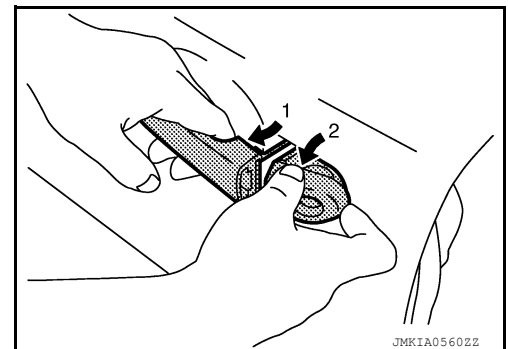
4. Remove front door glass channel rear.
5. Disconnect the harness connectors from the door antenna and door request switch and then remove harness clamp on outside handle bracket.
6. Remove door side grommet, and loosen screw ← that retains the front door outside handle bracket.



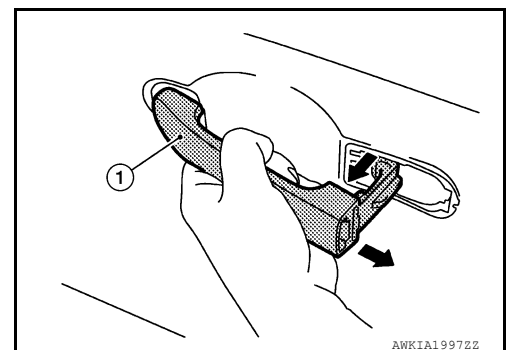
7. Reach in to separate door key cylinder rod (LH side) (1) from door key cylinder assembly (LH side) (2).



8. While pulling (1) outside handle, remove (2) door key cylinder assembly (LH side) or outside handle escutcheon (RH side).



9. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.



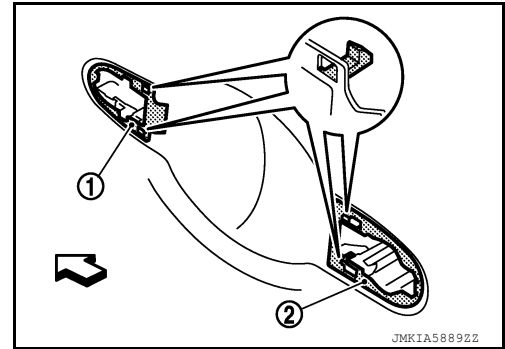
DOOR HANDLE

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

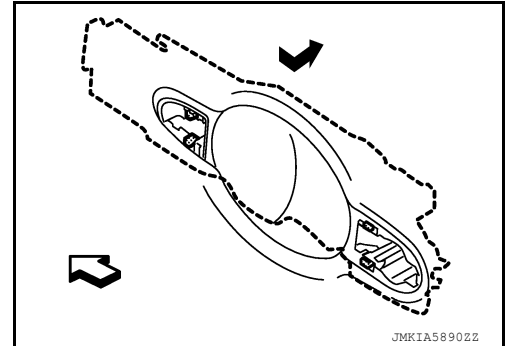
10. Remove front gasket (1) and rear gasket (2).

⇐: Front

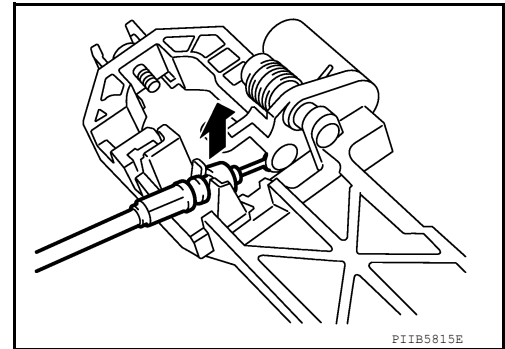


11. Slide outside handle bracket toward rear of vehicle to remove.

⇐: Front



12. Disconnect the outside handle cable from the outside handle bracket connection.



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- When installing do not reuse front door outside handle bracket screw. Always replace screw with new ones when removed.
- When installing door key cylinder rod on the LH front door, be sure to rotate door key cylinder rod holder until a click is felt.
- Check front door lock cable is properly engaged to outside handle bracket.
- After installation, check front door open/close, lock/unlock operation.

REAR DOOR HANDLE

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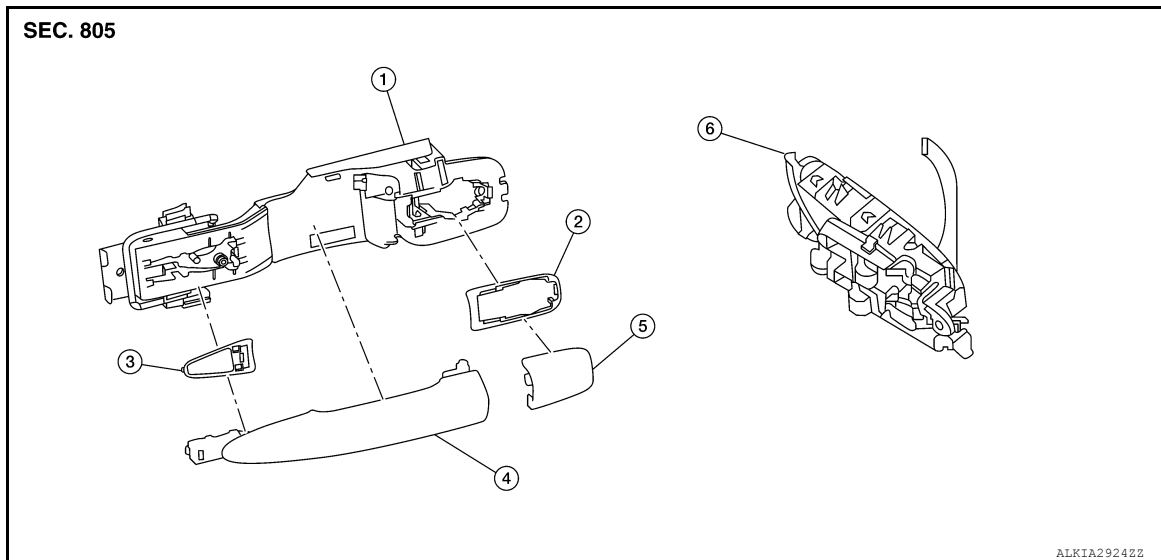
DOOR HANDLE

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

REAR DOOR HANDLE : Exploded View

INFOID:000000011536717



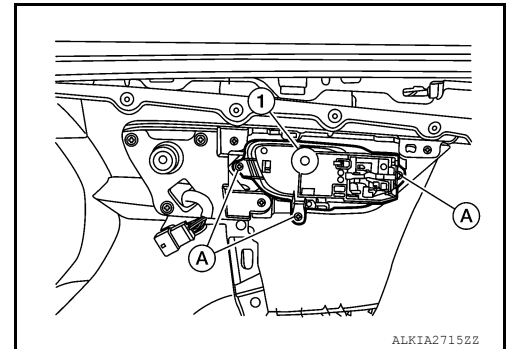
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| 1. Outside handle bracket | 2. Rear gasket | 3. Front gasket |
| 4. Outside door handle | 5. Outside handle escutcheon | 6. Inside handle assembly |

REAR DOOR HANDLE : Removal and Installation - Inside Handle

INFOID:000000011536718

REMOVAL

1. Remove rear door finisher. Refer to [INT-19, "Removal and Installation"](#).
2. Remove inside handle assembly screws (A) and inside handle assembly (1).



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- Check rear door lock cables are properly engaged to inside handle.
- After installation, check rear door open/close, lock/unlock operation.

REAR DOOR HANDLE : Removal and Installation - Outside Handle

INFOID:000000011536719

REMOVAL

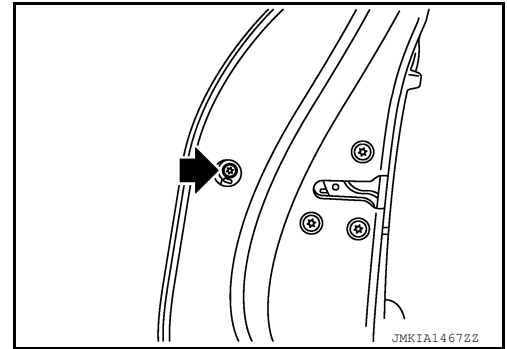
1. Fully close rear door glass.
2. Remove rear door finisher. Refer to [INT-19, "Removal and Installation"](#).
3. Remove rear door vapor barrier.

DOOR HANDLE

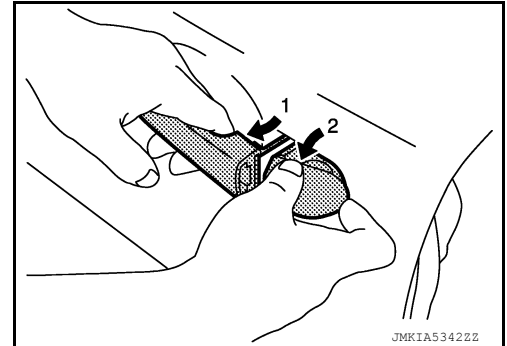
< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

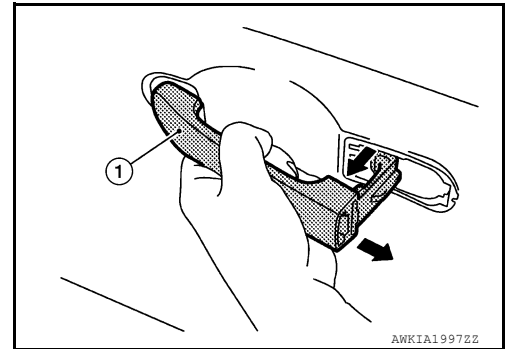
4. Remove door side grommet, and loosen screw ← that retains the rear door outside handle bracket.



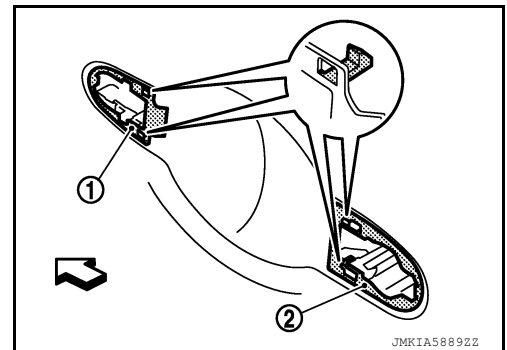
5. While pulling (1) outside handle, remove (2) outside handle escutcheon.



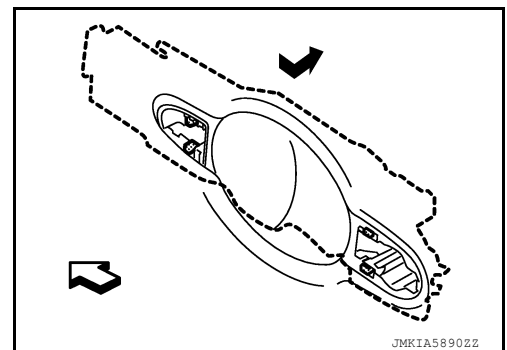
6. While pulling outside handle (1), slide toward rear of vehicle to remove outside handle.



7. Remove front gasket (1) and rear gasket (2).
⇐: Front



8. Slide outside handle bracket toward rear of vehicle to remove.
⇐: Front



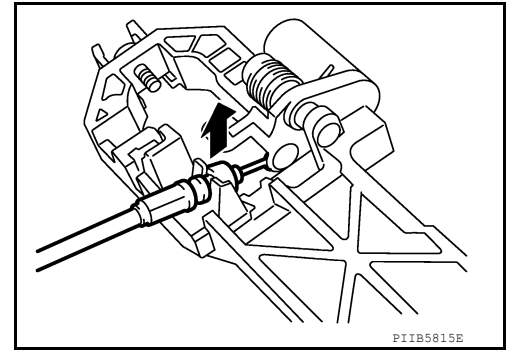
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DOOR HANDLE

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

9. Remove clip and disconnect the outside handle cable from the outside handle bracket.



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- When installing do not reuse rear door outside handle bracket screw. Always replace screw with new ones when removed.
- Check rear door lock cable is properly engaged to outside handle bracket.
- After installation, check rear door open/close, lock/unlock operation.

DOOR LOCK

< REMOVAL AND INSTALLATION >

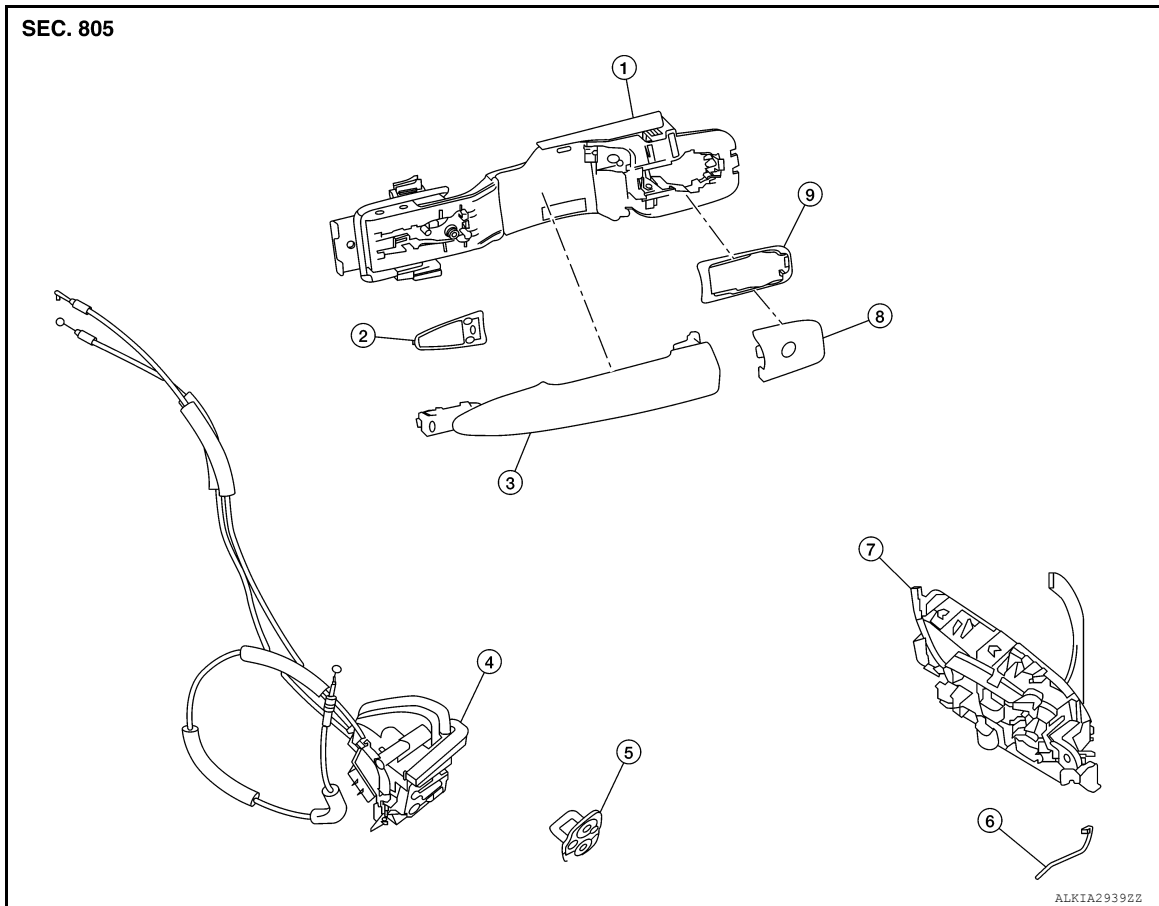
[WITHOUT INTELLIGENT KEY SYSTEM]

DOOR LOCK

FRONT DOOR LOCK

FRONT DOOR LOCK : Exploded View

INFOID:000000011536720



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|---------------------------|------------------------------|--------------------------|
| 1. Outside handle bracket | 2. Front gasket | 3. Outside handle |
| 4. Door lock assembly | 5. Door striker | 6. Door key cylinder rod |
| 7. Inside handle assembly | 8. Outside handle escutcheon | 9. Rear gasket |

FRONT DOOR LOCK : Removal and Installation

INFOID:000000011536721

CAUTION:

Before servicing, turn ignition switch OFF, disconnect both battery terminals and wait at least three minutes.

REMOVAL

1. Remove the front door outside handle. Refer to [DLK-180, "FRONT DOOR HANDLE : Removal and Installation - Outside Handle"](#).
2. Remove the rear glass run.
3. Disconnect the harness connector from the front door lock actuator.

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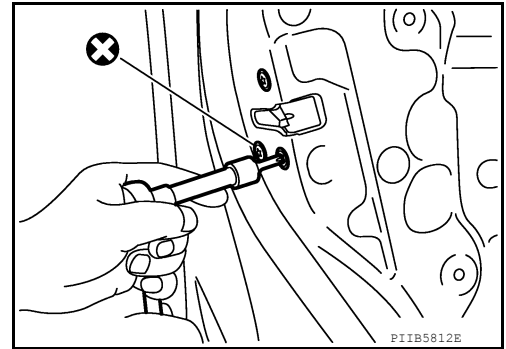
DLK

DOOR LOCK

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

4. Remove screws, and the door lock assembly.



5. Disconnect door key cylinder rod (LH only) from door key cylinder (LH only).
6. Disconnect the door lock cables from inside handle.

INSTALLATION

Installation is in the reverse order of removal.
Tighten front door lock screws to specified torque.

Front door lock screws: 5.8 N·m (0.59 kg-m, 51 in-lb)

CAUTION:

- Do not reuse front door lock assembly screws. Always replace screws with new ones when removed.
- Check front door lock cables are properly engaged to inside handle and outside handle bracket.
- When installing door key cylinder rod on the LH front door, be sure to rotate door key cylinder rod holder until a click is felt.
- After installation, check front door open/close, lock/unlock operation.
- Check front door lock assembly for poor lubrication. If necessary apply a suitable multi-purpose grease.

REAR DOOR LOCK

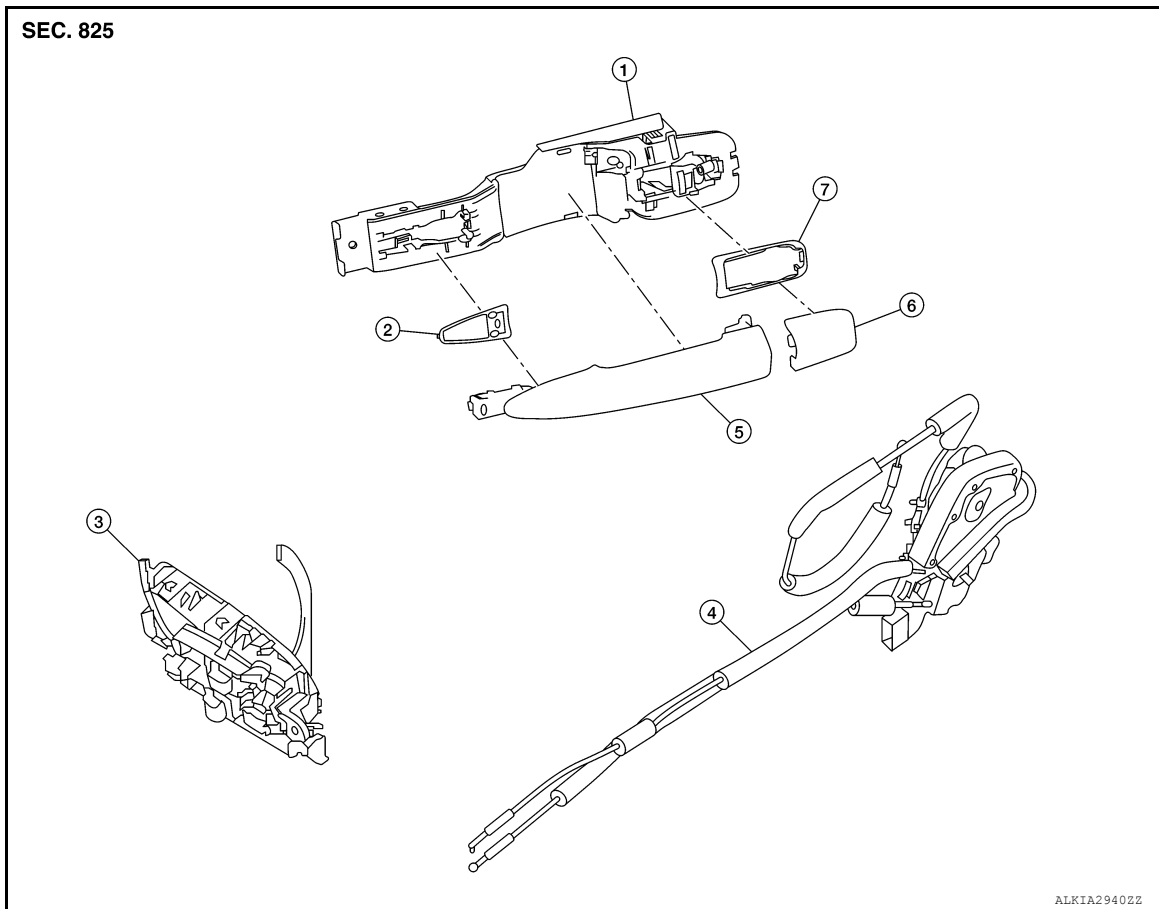
DOOR LOCK

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

REAR DOOR LOCK : Exploded View

INFOID:000000011536722



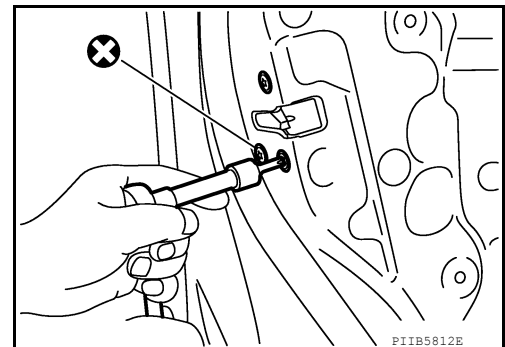
- | | | |
|---------------------------|-------------------|------------------------------|
| 1. Outside handle bracket | 2. Front gasket | 3. Inside handle assembly |
| 4. Door lock assembly | 5. Outside handle | 6. Outside handle escutcheon |
| 7. Rear gasket | | |

REAR DOOR LOCK : Removal and Installation

INFOID:000000011536723

REMOVAL

1. Remove the rear door outside handle. Refer to [DLK-183. "REAR DOOR HANDLE : Removal and Installation - Outside Handle"](#).
2. Disconnect the harness connector from the rear door lock actuator.
3. Remove the screws, and the door lock assembly.



INSTALLATION

Installation is in the reverse order of removal.
Tighten rear door lock screws to specified torque.

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DOOR LOCK

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

Rear door lock screws: 5.8 N·m (0.59 kg-m, 51 in-lb)

CAUTION:

- Do not reuse rear door lock assembly screws. Always replace screws with new ones when removed.
- Check rear door lock cables are properly engaged to inside handle and outside handle bracket.
- After installation, check rear door open/close, lock/unlock operation.
- Check rear door lock assembly for poor lubrication. If necessary apply a suitable multi-purpose grease.

TRUNK LID

< REMOVAL AND INSTALLATION >

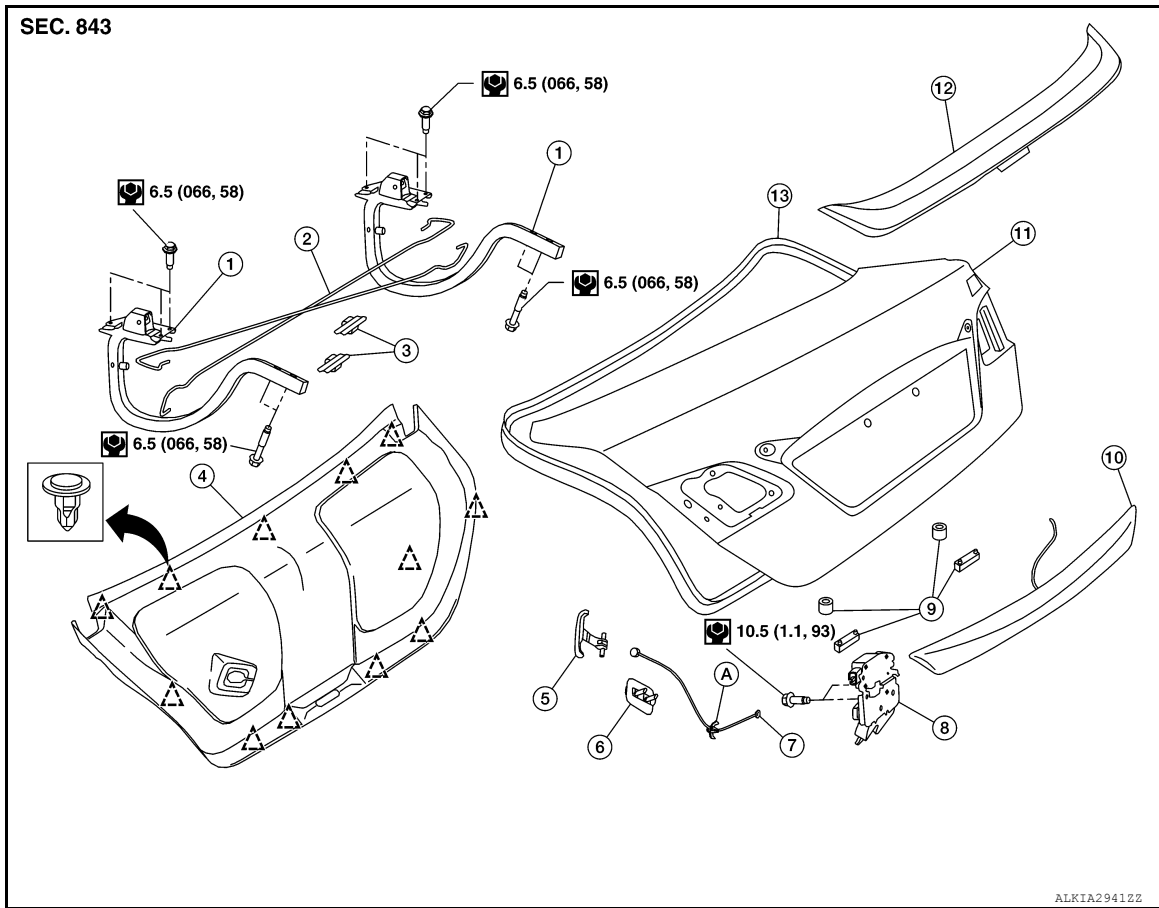
[WITHOUT INTELLIGENT KEY SYSTEM]

TRUNK LID

TRUNK LID ASSEMBLY

TRUNK LID ASSEMBLY : Exploded View

INFOID:000000011536724



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|-------------------------------------|-----------------------------|----------------------------------|
| 1. Trunk lid hinge LH/RH | 2. Torsion bar LH/RH | 3. Torsion bar clips |
| 4. Trunk lid finisher (if equipped) | 5. Emergency release handle | 6. Emergency release handle clip |
| 7. Emergency release handle cable | 8. Trunk lid lock | 9. Trunk lid bumpers |
| 10. License lamp finisher | 11. Trunk lid | 12. Rear spoiler (if equipped) |
| 13. Weatherstrip | A. Clip | △△△ Clip |

TRUNK LID ASSEMBLY : Removal and Installation

INFOID:000000011536725

CAUTION:

- Use two people when removing or installing trunk lid assembly due to its heavy weight.
- Use protective tape or shop cloths to protect surrounding components from damage during removal and installation of trunk lid assembly.

REMOVAL

1. Remove trunk lid finisher (if equipped). Refer to [INT-45, "Removal and Installation"](#).

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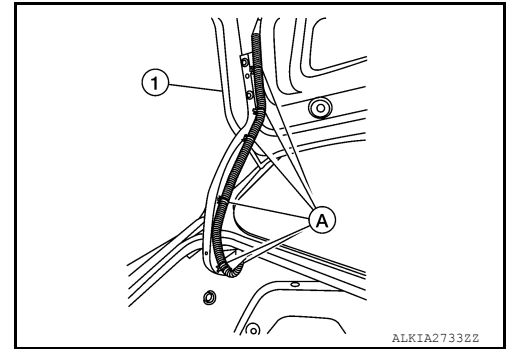
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TRUNK LID

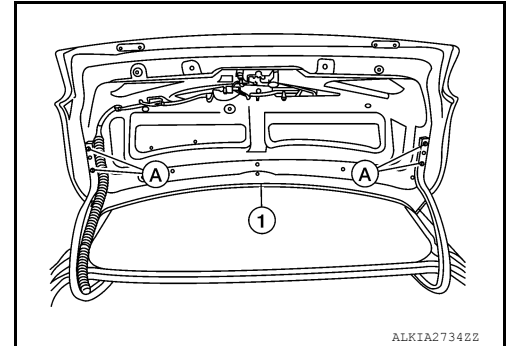
< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

2. Disconnect the harness connectors in the trunk lid assembly (1) and remove the harness clips (A) then pull out harness from the trunk lid assembly (1).



3. Remove the bolts (A) and remove the trunk lid assembly (1).



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

After installation, perform the trunk lid assembly adjustment procedure. Refer to [DLK-339. "TRUNK LID ASSEMBLY : Adjustment"](#).

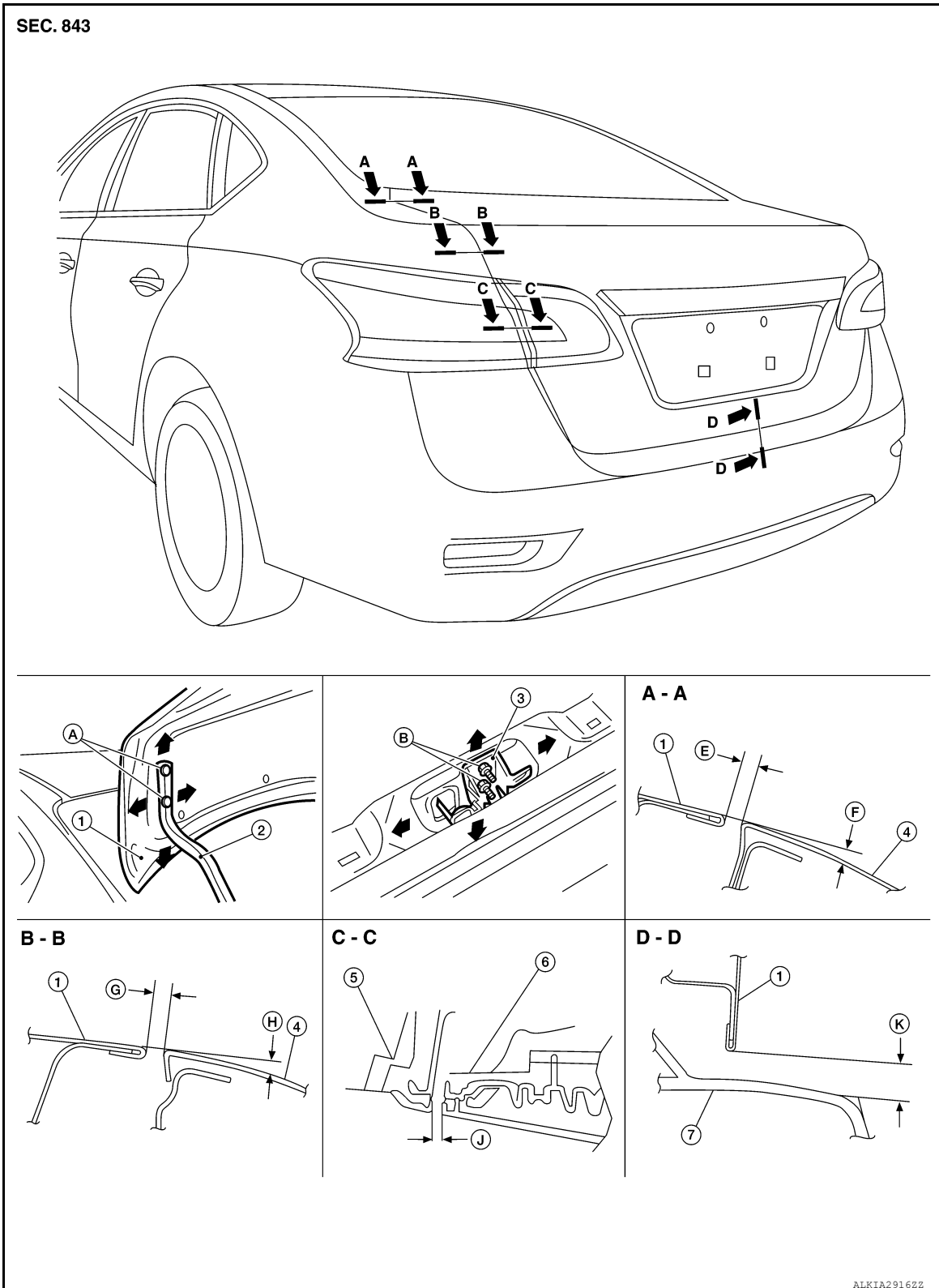
TRUNK LID

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

TRUNK LID ASSEMBLY : Adjustment

INFOID:000000011536726



- 1. Trunk lid assembly
- 4. Body side outer
- 7. Rear bumper fascia

- 2. Trunk lid hinge
- 5. Rear combination lamp
- A. Trunk lid bolts
- B. Striker bolts

- 3. Trunk lid striker
- 6. Reflector

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TRUNK LID

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

Check the clearance and the surface height between trunk lid and each part by visual inspection and tactile feel.

If the clearance and the surface height are out of specification, adjust them according to the adjustment procedures.

Unit: mm (in)

Section	Item	Measurement	Standard	Parallelism (MAX)	Right/Left Difference (MAX)
A – A	E	Clearance	3.5 ±1.0 (0.14 ±0.04)	1.5 (0.06)	1.5 (0.06)
	F	Surface height	1.0 ±1.0 (0.04 ±0.04)	1.5 (0.06)	1.5 (0.06)
B – B	G	Clearance	3.5 ±1.0 (0.14 ±0.04)	1.5 (0.06)	1.5 (0.06)
	H	Surface height	1.0 ±1.0 (0.04 ±0.04)	1.5 (0.06)	1.5 (0.06)
C – C	J	Clearance	4.3 ±1.9 (0.17 ±0.07)	—	2.0 (0.08)
D – D	K	Clearance	7.0 ±2.0 (0.28 ±0.08)	—	—

LONGITUDINAL CLEARANCE

Trunk Lid Removed From Hinge

1. Loosen the trunk lid to hinge bolts.
2. Move the trunk lid so that the clearance measurements are within specifications provided.
3. Tighten the trunk lid to hinge bolts.

Trunk Lid Hinge Removed From Vehicle

1. Remove the rear parcel shelf finisher. Refer to [INT-33, "Removal and Installation"](#).
2. Loosen the hinge to parcel shelf bolts.
3. Move the trunk lid so that the clearance measurements are within specifications provided.
4. Tighten the hinge to parcel shelf bolts.
5. Install the rear parcel shelf finisher. Refer to [INT-33, "Removal and Installation"](#).

SURFACE HEIGHT ADJUSTMENT

1. Loosen the bumper rubber.
2. Loosen the striker bolts.
3. Lift up the trunk lid approx. 100 - 150 mm (3.94 - 5.91 in) height then close it lightly. Make sure it engages firmly with the trunk lid closed.
4. Tighten the trunk lid striker.

TRUNK LID HINGE

TRUNK LID HINGE : Removal and Installation

INFOID:000000011536727

REMOVAL

1. Remove trunk lid assembly. Refer to [DLK-337, "TRUNK LID ASSEMBLY : Removal and Installation"](#).
2. Remove torsion bar. Refer to [DLK-341, "TORSION BAR : Removal and Installation"](#).
3. Remove rear parcel shelf finisher. Refer to [INT-33, "Removal and Installation"](#).
4. Remove trunk lid hinge bolts (body side) and remove.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

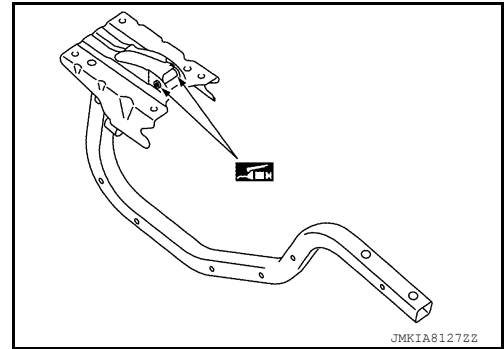
- Check trunk lid open/close, lock/unlock operation after installation.
- After installation, perform the trunk lid assembly adjustment procedure. Refer to [DLK-339, "TRUNK LID ASSEMBLY : Adjustment"](#).

TRUNK LID

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

- Check trunk lid hinge rotating point for poor lubrication. If necessary, apply a suitable multi-purpose grease.



TORSION BAR

TORSION BAR : Removal and Installation

INFOID:000000011536728

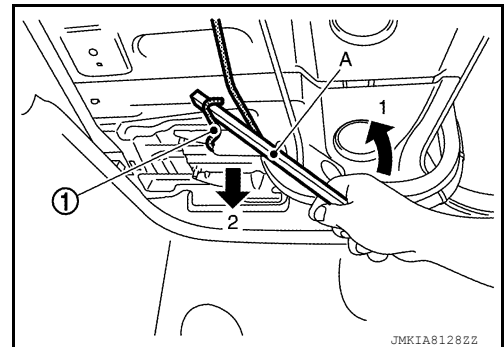
REMOVAL

1. Remove torsion bar clips.
2. Support the trunk lid assembly using a suitable tool.

WARNING:

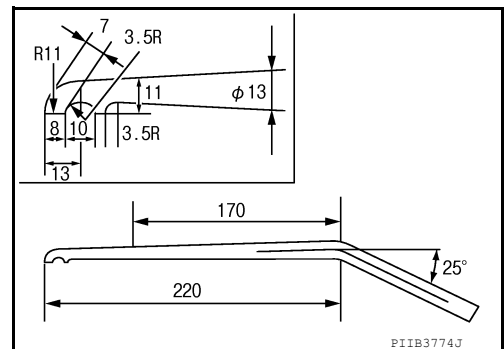
Bodily injury may occur if hood assembly is not supported properly when removing hood assembly.

3. Lift torsion bar (1) using a suitable tool (A) as shown to remove.



NOTE:

The suitable tool specifications are as shown.



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

After installation check the trunk lid open/close, lock/unlock operation.

TRUNK LID LOCK

TRUNK LID LOCK : Removal and Installation

INFOID:000000011536729

REMOVAL

1. Remove the trunk lid finisher (if equipped). Refer to [INT-45, "Removal and Installation"](#).

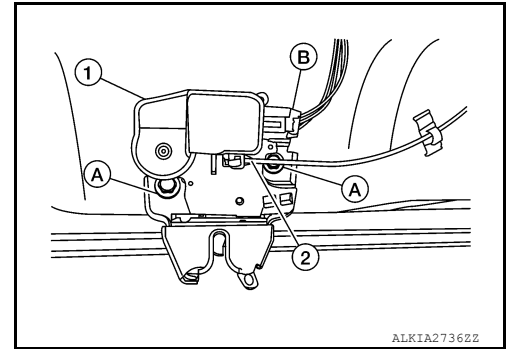
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TRUNK LID

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

2. Disconnect the harness connector (B) and emergency release handle (2) from the trunk lid lock (1).
3. Remove the trunk lid lock bolts (A) and remove.



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

After installation, perform the trunk lid assembly adjustment procedure. Refer to [DLK-339, "TRUNK LID ASSEMBLY : Adjustment"](#).

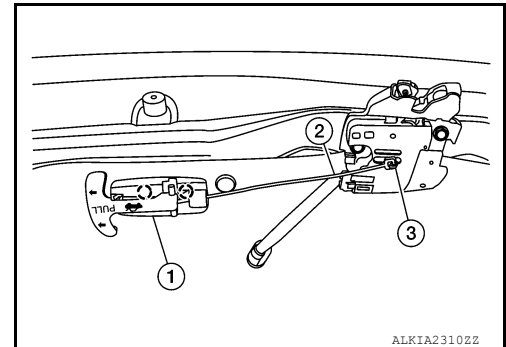
EMERGENCY LEVER

EMERGENCY LEVER : Removal and Installation

INFOID:0000000011536730

REMOVAL

1. Remove the trunk lid finisher (if equipped). Refer to [INT-45, "Removal and Installation"](#).
2. Using a suitable tool release the pawls and remove emergency release handle (1) from trunk lid assembly.
○: Pawl
3. Disconnect emergency release handle cable (2) from trunk lid lock assembly (3).



INSTALLATION

Installation is in the reverse order of removal.

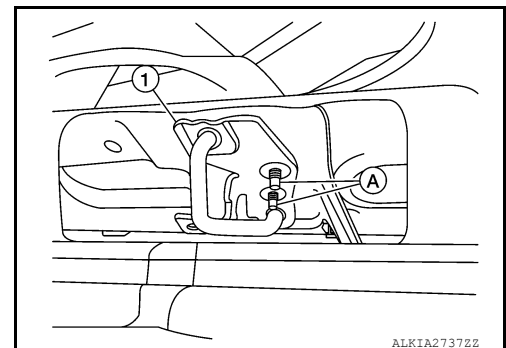
TRUNK LID STRIKER

TRUNK LID STRIKER : Removal and Installation

INFOID:0000000011536731

REMOVAL

1. Remove the trunk kicking plate. Refer to [INT-42, "Exploded View"](#).
2. Remove bolts (A) and striker (1).



INSTALLATION

TRUNK LID

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

Installation is in the reverse order of removal.

CAUTION:

After installation, perform the trunk lid assembly adjustment procedure. Refer to [DLK-339, "TRUNK LID ASSEMBLY : Adjustment"](#).

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FUEL FILLER LID OPENER

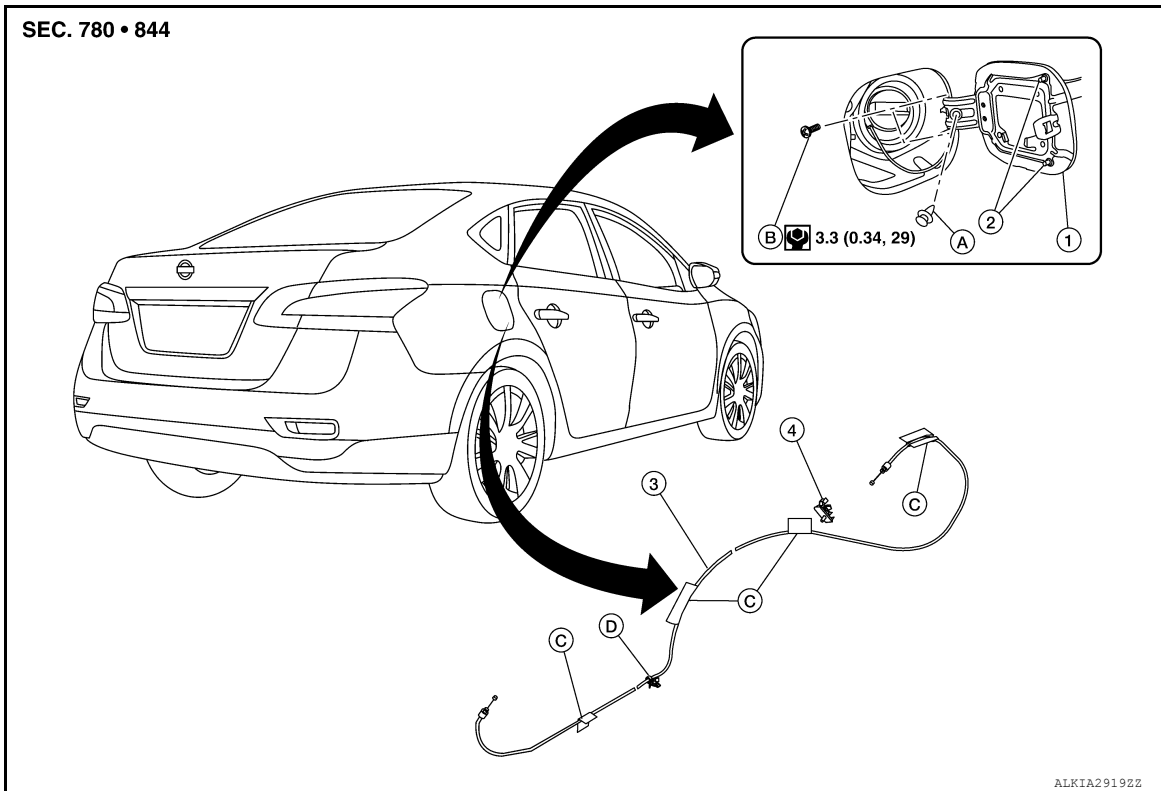
< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

FUEL FILLER LID OPENER

Exploded View

INFOID:000000011536732



- | | | |
|-------------------------|------------------|---------------------------------|
| 1. Fuel filler lid | 2. Bumper rubber | 3. Fuel filler lid opener cable |
| 4. Fuel filler lid lock | A. Clip | B. Bolts |
| C. Cable protector | | |

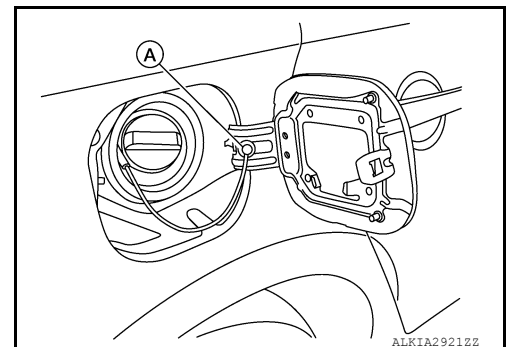
FUEL FILLER LID

FUEL FILLER LID : Removal and Installation

INFOID:000000011536733

REMOVAL

1. Fully open fuel filler lid.
2. Remove fuel cap clip (A).

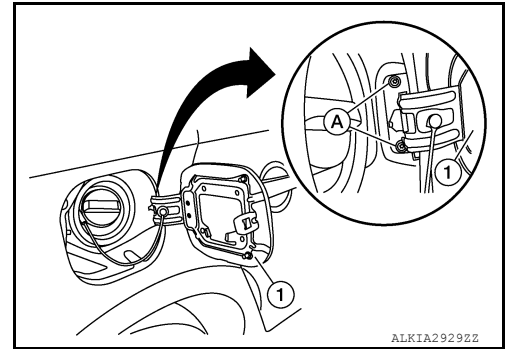


FUEL FILLER LID OPENER

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

- Remove fuel filler lid screws (A) and fuel filler lid (1).



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

After installation, check fuel filler lid assembly open/close, lock/unlock operation.

NOTE:

- The following table shows the specifications for a correctly installed fuel filler lid.
- Fitting adjustment cannot be performed.

Unit: mm (in)

Portion	Measurement	Standard
Fuel filler lid – Body side outer	Clearance	5.1 ±1.0 (0.20 ±0.04)
Fuel filler lid – Body side outer	Surface height	0.0 ±1.0 (0.0 ±0.04)

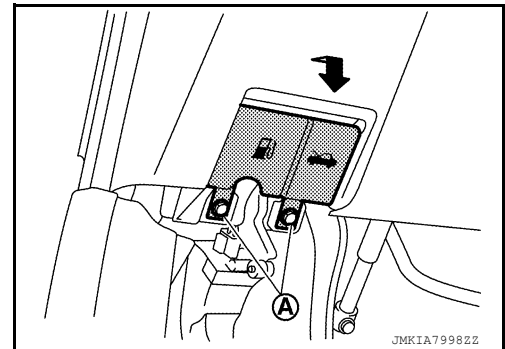
FUEL FILLER OPENER CABLE

FUEL FILLER OPENER CABLE : Removal and Installation

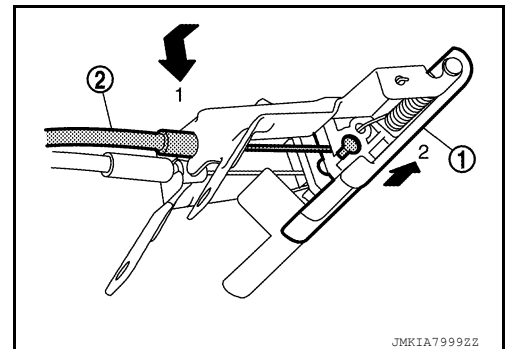
INFOID:0000000011536734

REMOVAL

- Remove hood and fuel filler handle assembly bolts (A).



- Release fuel filler lid opener cable (2) by pulling downward and then sliding cable end to the side to remove from hood and fuel filler handle assembly (1).



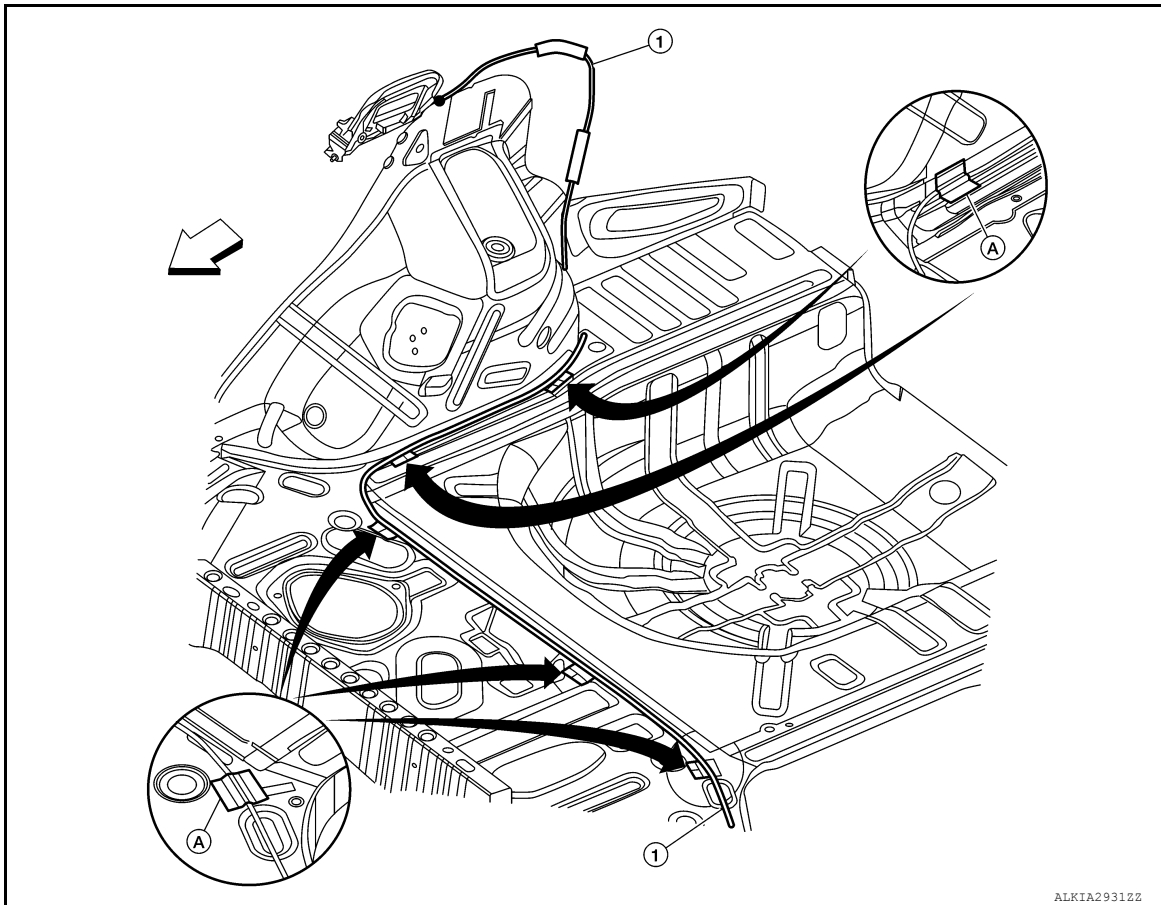
- Remove dash side finisher (LH). Refer to [INT-26. "DASH SIDE FINISHER : Removal and Installation"](#).
- Remove center pillar lower finisher (LH). Refer to [INT-27. "CENTER PILLAR LOWER FINISHER : Removal and Installation"](#).

FUEL FILLER LID OPENER

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

5. Remove rear seat bolster (LH). Refer to [SE-24. "Removal and Installation - Rear Seat Bolster"](#).
6. Remove trunk side finisher (LH). Refer to [INT-43. "TRUNK SIDE FINISHER : Removal and Installation"](#).
7. Remove fuel filler lid opener cable (1) from fuel filler lid lock assembly. Refer to [DLK-345. "FUEL FILLER OPENER CABLE : Removal and Installation"](#).



⇐ Front

8. Remove each cable protector (A), then remove fuel filler lid opener cable (1).

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

After installation, check fuel filler lid assembly open/close, lock/unlock operation.

FUEL FILLER LID LOCK

FUEL FILLER LID LOCK : Removal and Installation

INFOID:000000011536735

REMOVAL

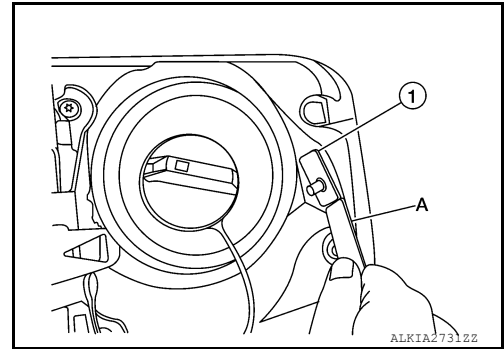
1. Fully open fuel filler lid.

FUEL FILLER LID OPENER

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

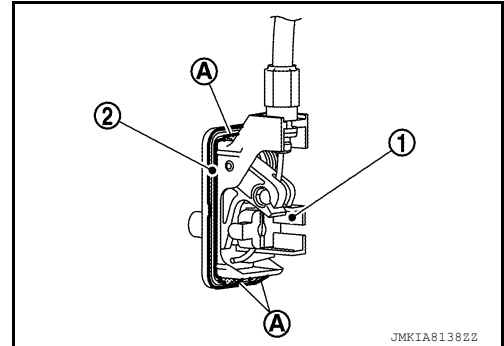
2. Insert a suitable tool (A) as shown into bottom of fuel filler lock assembly (1).



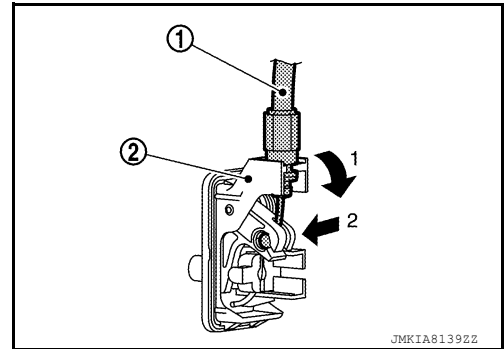
3. Release upper and lower pawls (A) using a suitable tool and remove fuel filler lid lock assembly (1).

CAUTION:

Be careful not to damage gasket (2) when removing.



4. Disconnect fuel filler lid opener cable (1) by pulling downward and then sliding cable end to the side to remove from fuel filler lid lock assembly (2).



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

After installation, check fuel filler lid assembly open/close, lock/unlock operation.

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DOOR SWITCH

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

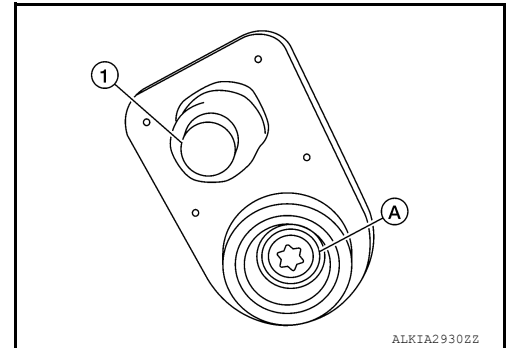
DOOR SWITCH

Removal and Installation

INFOID:000000011536736

REMOVAL

1. Remove the door switch bolt (A).
2. Disconnect the harness connector from the door switch (1) and remove.



INSTALLATION

Installation is in the reverse order of removal.

REMOTE KEYLESS ENTRY RECEIVER

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

REMOTE KEYLESS ENTRY RECEIVER

Removal and Installation

INFOID:000000011536737

REMOVAL

1. Remove glove box assembly. Refer to [IP-22. "Removal and Installation"](#).
2. Disconnect the harness connector from the remote keyless entry receiver.
3. Remove the screw and remote keyless entry receiver.

INSTALLATION

Installation is in the reverse order or removal.

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KEYFOB BATTERY

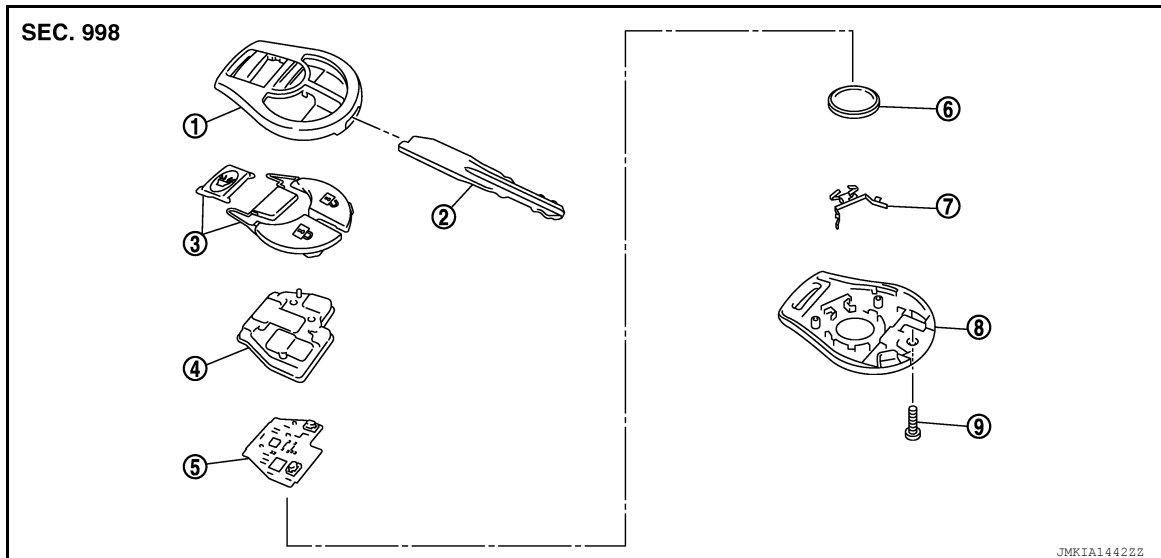
< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

KEYFOB BATTERY

Exploded View

INFOID:000000011536738



- | | | |
|------------------|------------------|-----------------|
| 1. Upper case | 2. Key | 3. Switch cover |
| 4. Switch rubber | 5. Board surface | 6. Battery |
| 7. Plate | 8. Lower case | 9. Screw |

Removal and Installation

INFOID:000000011536739

REMOVAL

1. Remove the keyfob screw.
2. Separate the upper and lower case using a suitable tool.
CAUTION:
 - Do not touch the circuit board or battery terminal.
 - The keyfob is water-resistant. However, if it does get wet, immediately wipe it dry.
3. Remove the circuit board from the upper case.
CAUTION:
Do not touch the printed circuits directly.
4. Remove the keyfob battery from the upper case.

Battery replacement : Coin-type lithium battery (CR1620)

CAUTION:

- When replacing battery, keep dirt, grease, and other foreign materials off the electrode contact area.
- After replacing the battery, Be sure to check that door locking operates normally using the key-fob.

INSTALLATION

Installation is in the reverse order of removal.

TRUNK LID OPENER SWITCH

< REMOVAL AND INSTALLATION >

[WITHOUT INTELLIGENT KEY SYSTEM]

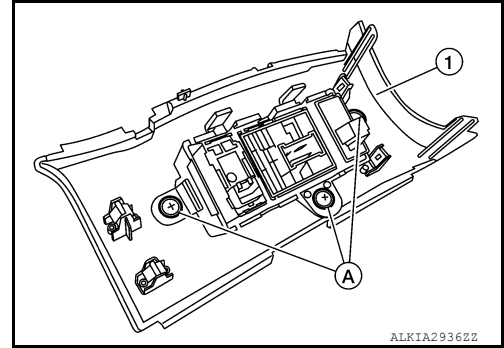
TRUNK LID OPENER SWITCH

Removal and Installation

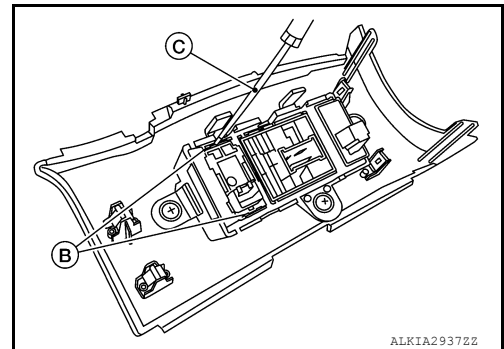
INFOID:0000000011536740

REMOVAL

1. Remove the instrument lower panel LH. Refer to [IP-21. "Removal and Installation"](#).
2. Remove to the instrument finisher D (1).
3. Remove the screws (A) that retain the instrument finisher D to the switch carrier.



4. Release upper tab and lower tab (B) using a suitable tool (C), then remove the trunk lid opener switch from the upper switch carrier.



INSTALLATION

Installation is in the reverse order of removal.

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