SECTION DLK
DOOR & LOCK

CONTENTS

PRECAUTION 7

PRECAUTIONS 7
Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER" 7
Precautions for Removing Battery Terminal 7
Work 8

PREPARATION 9

PREPARATION 9
Special Service Tools 9
Commercial Service Tools 9
Lubricant or/and Sealant 9

SYSTEM DESCRIPTION 10

COMPONENT PARTS 10

DOOR LOCK SYSTEM 10
DOOR LOCK SYSTEM : Component Parts Location 10
DOOR LOCK SYSTEM : Back Door Lock Assembly 11
DOOR LOCK SYSTEM : Back Door Opener Switch 12
DOOR LOCK SYSTEM : Door Lock Assembly 12
DOOR LOCK SYSTEM : Door Lock and Unlock Switch 12
DOOR LOCK SYSTEM : Front Door Control Unit 13
DOOR LOCK SYSTEM : Front Intelligent Key Door Handle 13
DOOR LOCK SYSTEM : Fuel Filler Lid Lock Assembly 13
DOOR LOCK SYSTEM : Inside Key Antenna 14
DOOR LOCK SYSTEM : Intelligent Key Unit 14
DOOR LOCK SYSTEM : Outside Key Antenna 14
DOOR LOCK SYSTEM : Remote Keyless Entry Receiver 14

GARAGE DOOR OPENER SYSTEM 15
GARAGE DOOR OPENER SYSTEM : Component Parts Location 15
GARAGE DOOR OPENER SYSTEM : Inside Rear View Mirror 15

SYSTEM 16

CENTRAL LOCKING SYSTEM 16
CENTRAL LOCKING SYSTEM : System Description 16
CENTRAL LOCKING SYSTEM : Circuit Diagram 20

INTELLIGENT KEY SYSTEM 21
INTELLIGENT KEY SYSTEM : System Description 22
INTELLIGENT KEY SYSTEM : Circuit Diagram 25

GARAGE DOOR OPENER SYSTEM 26
GARAGE DOOR OPENER SYSTEM : System Description 27
GARAGE DOOR OPENER SYSTEM : Circuit Diagram 28

WARNING CHIME 28
WARNING CHIME : Door Open Reminder 28

DIAGNOSIS SYSTEM (INTELLIGENT KEY) 29
CONSULT Function (INTELLIGENT KEY) 29

DIAGNOSIS SYSTEM (LEFT FRONT DOOR CONTROL UNIT) 31
CONSULT Function (Left Front Door Control Unit) 31

DIAGNOSIS SYSTEM (RIGHT FRONT DOOR CONTROL UNIT) 35
CONSULT Function (Right Front Door Control Unit) 35

DIAGNOSIS SYSTEM (GARAGE DOOR OPENER CONTROL UNIT) 39
CONSULT Function (GARAGE DOOR OPENER CONTROL UNIT) 39

ECU DIAGNOSIS INFORMATION 40

BCM, ELECTRONIC IGNITION SWITCH CONTROL UNIT 40
List of ECU Reference 40

INTELLIGENT KEY UNIT 41
Reference Value 41
Fail-safe 45
DTC Index 47

LEFT FRONT DOOR CONTROL UNIT 50
Reference Value 50
Fail-safe 57
DTC Inspection Priority Chart 58
DTC Index 60

RIGHT FRONT DOOR CONTROL UNIT 62
Reference Value 62
Fail-safe 68
DTC Inspection Priority Chart 69
DTC Index 70

WIRING DIAGRAM 73

DOOR & LOCK SYSTEM 73
Wiring Diagram 73

GARAGE DOOR OPENER SYSTEM 86
Wiring Diagram 86

LEFT FRONT DOOR CONTROL UNIT 88
Wiring Diagram 88

RIGHT FRONT DOOR CONTROL UNIT 94
Wiring Diagram 94

BASIC INSPECTION 99

ADDITIONAL SERVICE WHEN REPLACING INTELLIGENT KEY UNIT 99
Description 99
Work Procedure 99

ADDITIONAL SERVICE WHEN REPLACING FRONT DOOR CONTROL UNIT 100
Description 100
Work Procedure 100

CONFIGURATION (INTELLIGENT KEY UNIT) 101
Description 101
Work Procedure 101

CONFIGURATION (FRONT DOOR CONTROL UNIT) 102
Description 102
Work Procedure 102

DTC/CIRCUIT DIAGNOSIS 103

B18B1 DOOR LOCK ACTUATOR 103

LH 103
LH : DTC Description 103
LH : Diagnosis Procedure 103

RH 105
RH : DTC Description 105
RH : Diagnosis Procedure 106

B1936 DOOR LOCK AND UNLOCK SWITCH 108

LH 108
LH : DTC Description 108
LH : Diagnosis Procedure 108

RH 109
RH : DTC Description 109
RH : Diagnosis Procedure 110

B210A FRONT DOOR CONTROL UNIT 112

LH 112
LH : DTC Description 112
LH : Diagnosis Procedure 112

RH 113
RH : DTC Description 113
RH : Diagnosis Procedure 113

B210B FRONT DOOR CONTROL UNIT 115

LH 115
LH : DTC Description 115
LH : Diagnosis Procedure 115

RH 116
RH : DTC Description 116
RH : Diagnosis Procedure 116

B210C FRONT DOOR CONTROL UNIT 118

LH 118
LH : DTC Description 118
LH : Diagnosis Procedure 118

RH 120
RH : DTC Description 120
RH : Diagnosis Procedure 121

B217E FRONT DOOR CONTROL UNIT 123

LH 123
LH : DTC Description 123
LH : Diagnosis Procedure 123

RH 124
RH : DTC Description 124
RH : Diagnosis Procedure 125

B2206 FRONT DOOR CONTROL UNIT 127

LH 127
LH : DTC Description 127
LH : Diagnosis Procedure 127

RH 127

RH : DTC Description 127
RH : Diagnosis Procedure 128

B223B FRONT DOOR CONTROL UNIT 129

LH 129
LH : DTC Description 129
LH : Diagnosis Procedure 129

RH 129
RH : DTC Description 129
RH : Diagnosis Procedure 130

B224F FRONT DOOR CONTROL UNIT 131

LH 131
LH : DTC Description 131
LH : Diagnosis Procedure 131

RH 131
RH : DTC Description 132
RH : Diagnosis Procedure 132

U0141 BCM 133

LH 133
LH : DTC Description 133
LH : Diagnosis Procedure 133

RH 134
RH : DTC Description 134
RH : Diagnosis Procedure 134

U0168 FRONT DOOR CONTROL UNIT 136

LH 136
LH : DTC Description 136
LH : Diagnosis Procedure 136

RH 137
RH : DTC Description 137
RH : Diagnosis Procedure 137

U0203 FRONT DOOR CONTROL UNIT 139

LH 139
LH : DTC Description 139
LH : Diagnosis Procedure 139

RH 139
RH : DTC Description 139
RH : Diagnosis Procedure 140

U0204 FRONT DOOR CONTROL UNIT 141

LH 141
LH : DTC Description 141
LH : Diagnosis Procedure 141

RH 141
RH : DTC Description 141
RH : Diagnosis Procedure 142

U0215 LIN COMMUNICATION 143

LH 143
LH : DTC Description 143
LH : Diagnosis Procedure 143

RH 144
RH : DTC Description 145
RH : Diagnosis Procedure 145

U1008 LIN COMMUNICATION 147

LH 147
LH : DTC Description 147
LH : Diagnosis Procedure 147

RH 148
RH : DTC Description 148
RH : Diagnosis Procedure 149

B154E REMOTE KEYLESS ENTRY RECEIVER 151
DTC Description 151
Diagnosis Procedure 152

B1581 INTELLIGENT KEY UNIT 154
DTC Description 154
Diagnosis Procedure 154

B1A4A FRONT INTELLIGENT KEY DOOR HANDLE LH 155
DTC Description 155
Diagnosis Procedure 156

B1A4B FRONT INTELLIGENT KEY DOOR HANDLE RH 159
DTC Description 159
Diagnosis Procedure 160

B1A4E REAR DOOR INTELLIGENT KEY ANTENNA LH 163
DTC Description 163
Diagnosis Procedure 165

B1A4F REAR DOOR INTELLIGENT KEY ANTENNA RH 169
DTC Description 169
Diagnosis Procedure 171

B1A50 FRONT INTELLIGENT KEY ANTENNA 175
DTC Description 175
Diagnosis Procedure 177

B1A51 REAR INTELLIGENT KEY ANTENNA. 181
DTC Description 181
Diagnosis Procedure 183

B1D02 INTELLIGENT KEY UNIT 187
DTC Description 187
Diagnosis Procedure 187

B210A INTELLIGENT KEY UNIT 188
DTC Description 188

Diagnosis Procedure 188

B210B INTELLIGENT KEY UNIT 190
DTC Description 190
Diagnosis Procedure 190

B210D INTELLIGENT KEY UNIT 192
DTC Description 192
Diagnosis Procedure 192

B210E INTELLIGENT KEY UNIT 194
DTC Description 194
Diagnosis Procedure 194

B2261 INTELLIGENT KEY UNIT 196
DTC Description 196
Diagnosis Procedure 196

U0019 INTELLIGENT KEY UNIT 198
DTC Description 198
Diagnosis Procedure 198

U0168 INTELLIGENT KEY UNIT 199
DTC Description 199
Diagnosis Procedure 199

U0427 ELECTRONIC IGNITION SWITCH CONTROL UNIT 201
DTC Description 201
Diagnosis Procedure 201

B1828 BACK DOOR OPENER ACTUATOR . 203
DTC Description 203
Diagnosis Procedure 203

B186D BACK DOOR OPENER SWITCH 206
DTC Description 206
Diagnosis Procedure 206

B18CC FUEL FILLER LID LOCK ACTUATOR . 208
DTC Description 208
Diagnosis Procedure 208

B18EB REAR DOOR LOCK ACTUATOR 211
DTC Description 211
Diagnosis Procedure 211

B18F3 REAR DOOR LOCK ACTUATOR 214
DTC Description 214
Diagnosis Procedure 214

B1F4B REAR DOOR LOCK ACTUATOR 217
DTC Description 217
Diagnosis Procedure 217

U1152 COMMUNICATION ERROR 219
DTC Description 219
Diagnosis Procedure 219

B2269 GARAGE DOOR OPENER CONTROL UNIT 221
DTC Description 221
Diagnosis Procedure 222

SYMPTOM DIAGNOSIS 224

SQUEAK AND RATTLE TROUBLE DIAGNOSES 224
Work Flow 224
Inspection Procedure 226
Diagnostic Worksheet 228

REMOVAL AND INSTALLATION 230

HOOD 230
Exploded View 230

HOOD ASSEMBLY 231
HOOD ASSEMBLY : Removal and Installation ... 231
HOOD ASSEMBLY : Inspection 231
HOOD ASSEMBLY : Adjustment 232

HOOD STRIKER 234
HOOD STRIKER : Removal and Installation 234

HOOD HINGE 234
HOOD HINGE : Removal and Installation 234

HOOD INSULATOR 234
HOOD INSULATOR : Removal and Installation .. 234

HOOD SEAL 235
HOOD SEAL : Removal and Installation 235

RADIATOR CORE SUPPORT 236
Exploded View 236
Removal and Installation 236

FRONT FENDER 239
Exploded View 239

FRONT FENDER 239
FRONT FENDER : Removal and Installation 239

FRONT FENDER DRIP COVER 240
FRONT FENDER DRIP COVER : Removal and Installation 240

FRONT FENDER BAFFLE 240
FRONT FENDER BAFFLE : Removal and Installation 241

FRONT DOOR 242
Exploded View 242

DOOR ASSEMBLY 242
DOOR ASSEMBLY : Removal and Installation ... 242
DOOR ASSEMBLY : Inspection 243
DOOR ASSEMBLY : Adjustment 243

DOOR STRIKER 245
DOOR STRIKER : Removal and Installation 246

DOOR HINGE 246
DOOR HINGE : Removal and Installation 246

DOOR WEATHER-STRIP 246
DOOR WEATHER-STRIP : Removal and Installation 246

REAR DOOR 248
Exploded View 248

DOOR ASSEMBLY 248
DOOR ASSEMBLY : Removal and Installation 248
DOOR ASSEMBLY : Inspection 249
DOOR ASSEMBLY : Adjustment 249

DOOR STRIKER 251
DOOR STRIKER : Removal and Installation 252

DOOR HINGE 252
DOOR HINGE : Removal and Installation 252

DOOR WEATHER-STRIP 252
DOOR WEATHER-STRIP : Removal and Installation 252

BACK DOOR 254
Exploded View 254

BACK DOOR ASSEMBLY 254
BACK DOOR ASSEMBLY : Removal and Installation 254
BACK DOOR ASSEMBLY : Inspection 255
BACK DOOR ASSEMBLY : Adjustment 255

BACK DOOR STRIKER 258
BACK DOOR STRIKER : Removal and Installation 258

BACK DOOR HINGE 258
BACK DOOR HINGE : Removal and Installation 258

BACK DOOR STAY 258
BACK DOOR STAY : Removal and Installation 258

BACK DOOR WEATHER-STRIP 259
BACK DOOR WEATHER-STRIP : Removal and Installation 259

HOOD LOCK 261
Exploded View 261

HOOD LOCK 261
HOOD LOCK : Removal and Installation 261
HOOD LOCK : Inspection 262

HOOD LOCK CONTROL HANDLE 262
HOOD LOCK CONTROL HANDLE : Removal and Installation 263

HOOD LOCK CONTROL CABLE 263
HOOD LOCK CONTROL CABLE : Removal and Installation 263

FRONT DOOR LOCK 264
Exploded View 264

DOOR LOCK 265
DOOR LOCK : Removal and Installation 265
DOOR LOCK : Inspection 265

INSIDE HANDLE 265
INSIDE HANDLE : Removal and Installation 265

OUTSIDE HANDLE 266
OUTSIDE HANDLE : Removal and Installation 266

REAR DOOR LOCK 269
Exploded View 269

DOOR LOCK 270
DOOR LOCK : Removal and Installation 270
DOOR LOCK : Inspection 270

INSIDE HANDLE 270
INSIDE HANDLE : Removal and Installation 270

OUTSIDE HANDLE 270
OUTSIDE HANDLE : Removal and Installation 271

BACK DOOR LOCK 273
Exploded View 273

DOOR LOCK 273
DOOR LOCK : Removal and Installation 273
DOOR LOCK : Inspection 273
DOOR LOCK : Unlock procedures 273

FUEL FILLER LID OPENER 275
Exploded View 275

FUEL FILLER LID 275
FUEL FILLER LID : Removal and Installation 275

FUEL FILLER LID OPENER 277
FUEL FILLER LID OPENER : Removal and Installation 277
FUEL FILLER LID OPENER : Unlock procedures 277

DOOR LOCK AND UNLOCK SWITCH 279
Removal and Installation 279

BACK DOOR OPENER SWITCH 280
Removal and Installation 280

FRONT INSIDE KEY ANTENNA 281
Removal and Installation 281

REAR INSIDE KEY ANTENNA 282
Removal and Installation 282

OUTSIDE KEY ANTENNA 283
Removal and Installation 283

REMOTE KEYLESS ENTRY RECEIVER 284
Removal and Installation 284

INTELLIGENT KEY UNIT 285
Removal and Installation 285

FRONT DOOR CONTROL UNIT 286
Removal and Installation 286

INTELLIGENT KEY BATTERY ..... 287 Removal and Installation 287

PRECAUTION

PRECAUTIONS

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

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Risk of injury

There is a risk of injury caused by parts becoming projectiles if uncontrolled deployment of air bag or seat belt pre-tensioner occurs, or by storing air bag with the deployment side facing downwards. When scrapping air bag or seat belt pre-tensioner by means of controlled deployment, there is also a danger present if a sufficiently safe distance is not maintained, or if opening using cutting torches or other cutting tools, or due to smelting or if parts that are not yet triggered are exposed to a blaze or a smoldering fire at landfills.

Safety instructions/precautions

- Removed air bag must always be stored with deployment side facing up.
- Acquisition, transportation, storage, testing and assembly work should only be performed or supervised by properly trained personnel.
- Install air bag or seat belt pre-tensioner immediately following retrieval from storage.
- Air bag and seat belt pre-tensioner must be protected from flying sparks, open fires and temperature exceeding 100°C (212°F).
- Never transport air bag and seat belt pre-tensioner in the passenger compartment. Store them securely in the luggage room of the vehicle in their original replacement part packaging and secure them so that they cannot slip around.
- Never allow air bag and seat belt pre-tensioner to come into contact with grease, oil, or cleaning agents.
- Perform system tests using approved testing equipment only, and only when the units are properly installed and the vehicle is unoccupied.
- Before the initial hookup of the battery or an external power supply, the ignition must be switched on and the vehicle unoccupied.
- Air bag and seat belt pre-tensioner that fall from a height of more than 0.5 m must be replaced.
- When scrapping by means of controlled deployment of air bag and seat belt pre-tensioner, a safe distance of at least 10 m must be maintained.
- Before starting work on air bag and seat belt pre-tensioner and work on components that are connected to air bag and seat belt pre-tensioner or require and intervention in their electric circuit (e.g. when removing the steering wheel):
  - Disconnect any external power sources (e.g. charger).
  - Disconnect and insulate ground line of battery
- Before starting bodywork in combination with welding or retrofitting, during which work is performed on uninsulated, current-carrying lines or require an intervention in their electric circuit (e.g. when removing the steering wheel):
  - Disconnect any external power sources (e.g. charger).
  - Disconnect and insulate ground line of battery.
  - During welding, disconnect plug connection and from control unit of air bag.
- When the air bag deploys, the pyrofuse activates and the power source from the battery is disconnected. This prevents possible fires caused by electric leakage after an accident occurs.

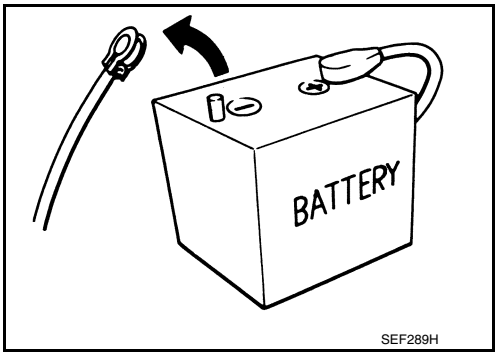
Precautions for Removing Battery Terminal

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

- Always use a 12V battery as power source.
- Never disconnect battery terminal while engine is running.

- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.
- For vehicles with the engine listed below, remove the battery terminal after a lapse of the specified time:



BR08DE	: 4 minutes	YD25DDTi	: 2 minutes
D4D engine	: 20 minutes	YS23DDT	: 4 minutes
HRA2DDT	: 12 minutes	YS23DDTT	: 4 minutes
K9K engine	: 4 minutes	ZD30DDTi	: 60 seconds
M9R engine	: 4 minutes	ZD30DDTT	: 60 seconds
R9M engine	: 4 minutes		
V9X engine	: 4 minutes		

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

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

NOTE:
- Turbocharger cooling pump may operate in a few minutes after the ignition switch is turned OFF.
- Example of high-load driving
  - Driving for 30 minutes or more at 140 km/h (86 MPH) or more.
  - Driving for 30 minutes or more on a steep slope.

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

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

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

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

Work

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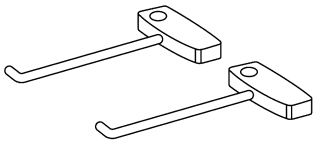
- After removing and installing the opening/closing parts, be sure to carry out fitting adjustments to check their operational.
- Check the lubrication level, damage, and wear of each part. If necessary, grease or replace it.

PREPARATION

PREPARATION

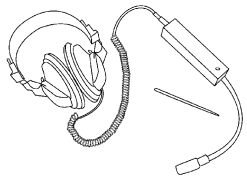
Special Service Tools

INFOID:0000000013549955

Tool number (DAIMLER tool No.) Tool name	Description
KV485H0010 (DAIMLER tool No. W140589023300) Pulling hook  JMKIB5927ZZ	Removing fuel filler lid base assembly

Commercial Service Tools

INFOID:0000000013549956

Tool name	Description
Engine ear  SIIA0995E	Locates the noise

Lubricant or/and Sealant

INFOID:0000000013549957

Name	Description	Note
Cleaner	Weather-strip attachment surface of front/rear door	(Henkel AG & Co. KGaA) or equivalent
Teroson multi-wax spray, art. no.119.48M	Hood hinge	Teroson multi-wax spray, or equivalent
Cavity preservation, solvent-free (1L container)	Each connections on vehicle body	(Pfinder KG) or equivalent

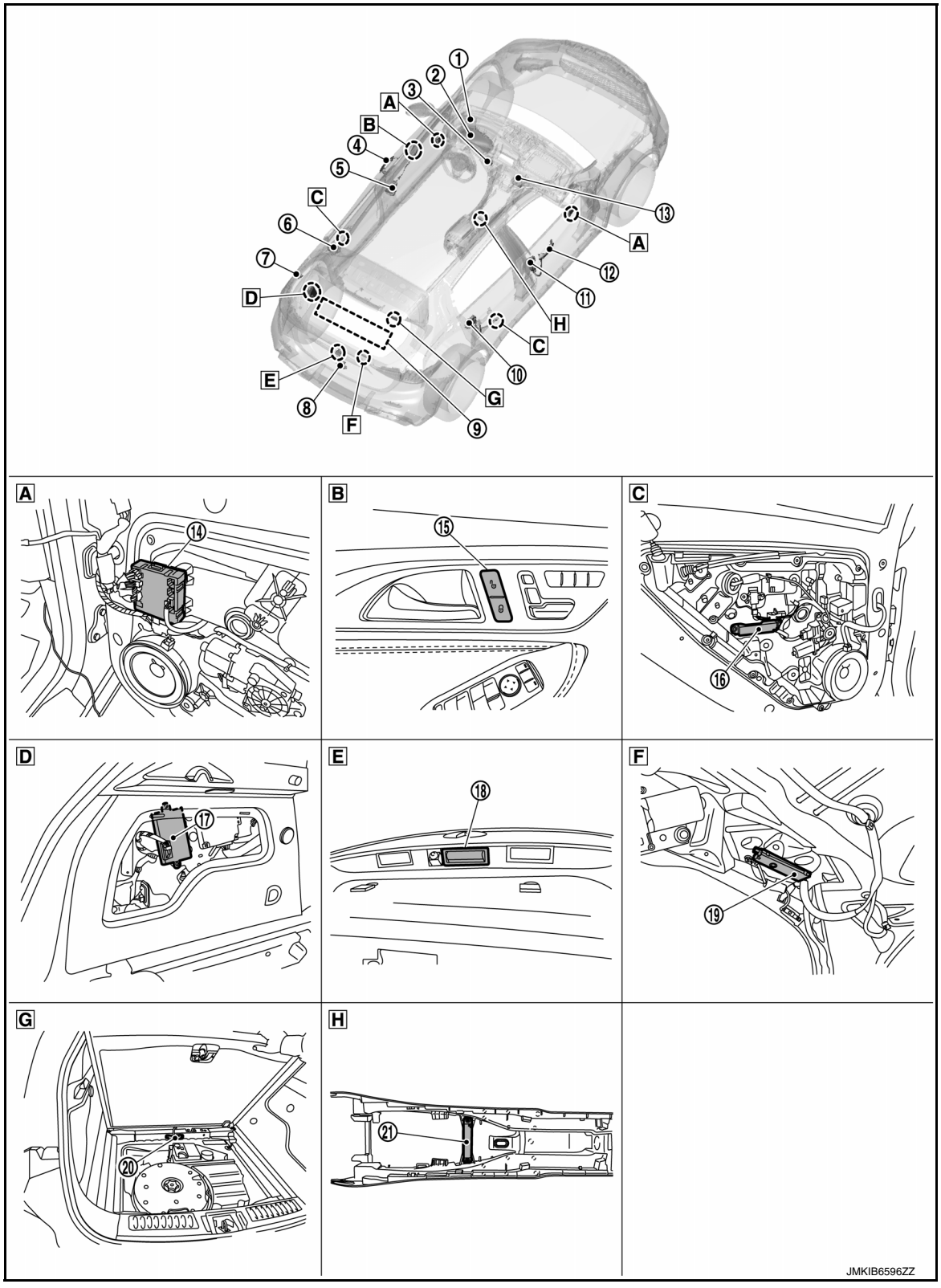
SYSTEM DESCRIPTION

COMPONENT PARTS

DOOR LOCK SYSTEM

DOOR LOCK SYSTEM : Component Parts Location

INFOID:0000000013549958



A View with front door finisher removed
B View with driver door
C View with rear door finisher removed
D View with luggage side finisher lid removed
E View with back door panel
F View with back door inner finisher removed
G View with luggage floor board removed
H View with center console assembly removed

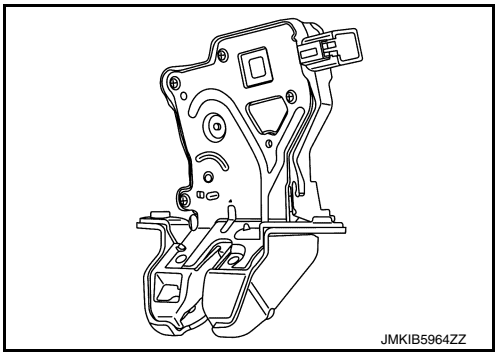
No.	Component	Function
①	BCM	BCM controls the rear door lock, back door open, and fuel filler lid unlock function. Refer to BCS-8, "BODY CONTROL SYSTEM : Component Parts Location" for detailed installation location.
②	Combination meter	Transmits vehicle speed signal to BCM and electronic ignition switch control unit via CAN communication.
③	Electronic ignition switch control unit	Electronic ignition switch control unit detects the vehicle status according to signal from CAN communication and control central locking system. Refer to PCS-5, "Component Parts Location" for detailed installation location.
④	Left front Intelligent Key door handle	DLK-13, "DOOR LOCK SYSTEM : Front Intelligent Key Door Handle"
⑤	Front door lock assembly (driver side)	DLK-12, "DOOR LOCK SYSTEM : Door Lock Assembly"
⑥	Rear door lock assembly LH	DLK-12, "DOOR LOCK SYSTEM : Door Lock Assembly"
⑦	Fuel filler lid lock assembly	DLK-13, "DOOR LOCK SYSTEM : Fuel Filler Lid Lock Assembly"
⑧	Back door lock assembly	DLK-11, "DOOR LOCK SYSTEM : Back Door Lock Assembly"
⑨	Window antenna	Window antenna receives key ID signal of Intelligent Key, and then transmits it to remote keyless entry receiver.
⑩	Rear door lock assembly RH	DLK-12, "DOOR LOCK SYSTEM : Door Lock Assembly"
⑪	Front door lock assembly (passenger side)	DLK-12, "DOOR LOCK SYSTEM : Door Lock Assembly"
⑫	Right front Intelligent Key door handle	DLK-13, "DOOR LOCK SYSTEM : Front Intelligent Key Door Handle"
⑬	Air bag diagnosis sensor unit	Transmits air bag signal to electronic ignition switch control unit via chassis CAN communication. Refer to SRC-8, "Component Parts Location" for detailed installation location.
⑭	Front door control unit	DLK-13, "DOOR LOCK SYSTEM : Front Door Control Unit"
⑮	Door lock and unlock switch	DLK-12, "DOOR LOCK SYSTEM : Door Lock and Unlock Switch"
⑯	Outside key antenna	DLK-14, "DOOR LOCK SYSTEM : Outside Key Antenna"
⑰	Intelligent Key unit	DLK-14, "DOOR LOCK SYSTEM : Intelligent Key Unit"
⑱	Back door opener switch	DLK-12, "DOOR LOCK SYSTEM : Back Door Opener Switch"
⑲	Remote keyless entry receiver	DLK-14, "DOOR LOCK SYSTEM : Remote Keyless Entry Receiver"
⑳	Rear inside key antenna	DLK-14, "DOOR LOCK SYSTEM : Inside Key Antenna"
㉑	Front inside key antenna	DLK-14, "DOOR LOCK SYSTEM : Inside Key Antenna"

DOOR LOCK SYSTEM : Back Door Lock Assembly

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- Back door lock assembly integrates back door opener actuator and back door switch.
- Back door switch detects open/close status of back door.
- Back door opener actuator receives back door open signal from BCM, and then open back door.

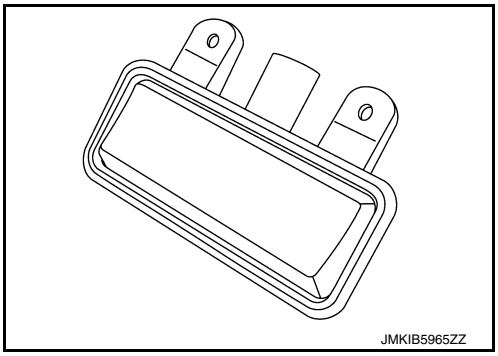
- Back door lock assembly is installed in the back door panel.


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DOOR LOCK SYSTEM : Back Door Opener Switch

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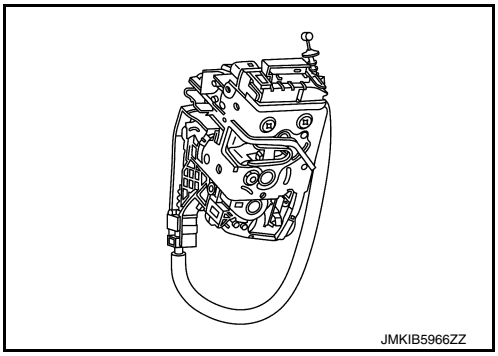
- Back door opener switch detects open operation of back door and transmits back door opener switch signal to BCM.
- Back door opener switch is installed in the back door panel.


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DOOR LOCK SYSTEM : Door Lock Assembly

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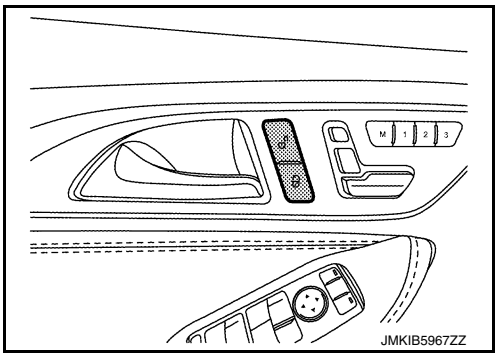
- Door lock actuator and door switch are integrated in door lock assembly.
- Door lock actuator receives lock/unlock signal from BCM, and then lock/unlock door.
- Door switch detects door open/close condition.


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DOOR LOCK SYSTEM : Door Lock and Unlock Switch

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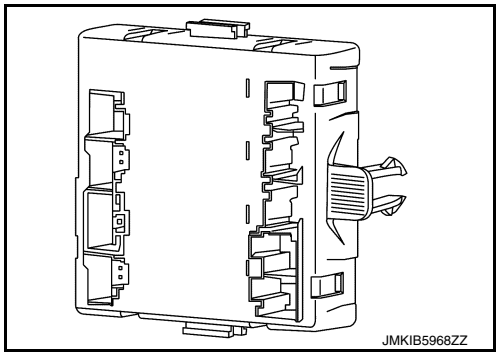
Door lock and unlock switch transmits door lock/unlock operation signal to front door control unit.


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DOOR LOCK SYSTEM : Front Door Control Unit

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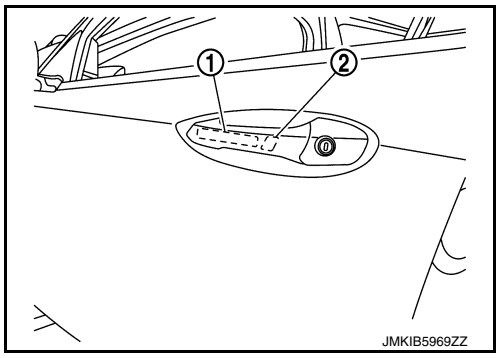
- Front door control unit controls front door lock actuator, each lamp, power window, and door mirror operation. Front door control unit detects each switch signal and transmits it to each control unit via CAN communication.
- Front door control unit is installed behind front door finisher.



DOOR LOCK SYSTEM : Front Intelligent Key Door Handle

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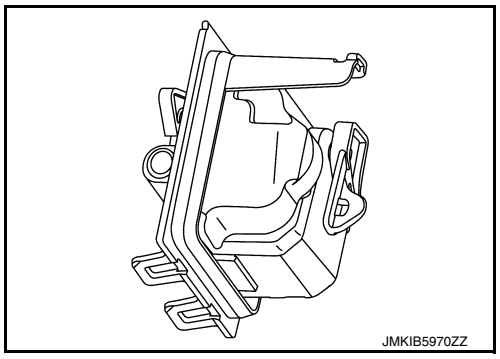
- Front Intelligent Key door handle detects user operate outside handle operation and transmits Intelligent Key door handle signal to Intelligent Key unit.
- Front Intelligent Key door handle is integrated in front door outside handle grip.
- Unlock door operation: touch the inner surface of front door outside handle grip.
- Lock door operation: touch front door outside handle grip surface ① or ②.



DOOR LOCK SYSTEM : Fuel Filler Lid Lock Assembly

INFOID:0000000013549965

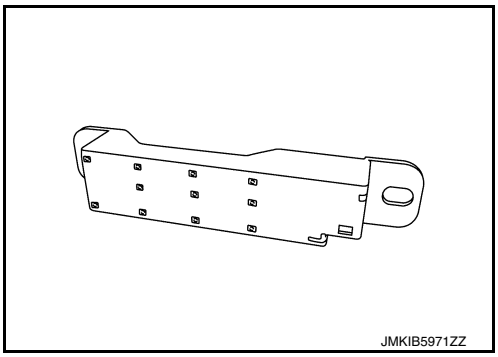
- Fuel filler lid lock actuator and fuel filler lid switch are integrated in fuel filler lid lock assembly.
- Fuel filler lid switch detects fuel filler lid open operation and transmits fuel filler lid open signal to BCM.
- Fuel filler lid lock actuator receives fuel filler lid unlock signal from BCM, and unlock fuel filler lid.



DOOR LOCK SYSTEM : Inside Key Antenna

INFOID:0000000013549966

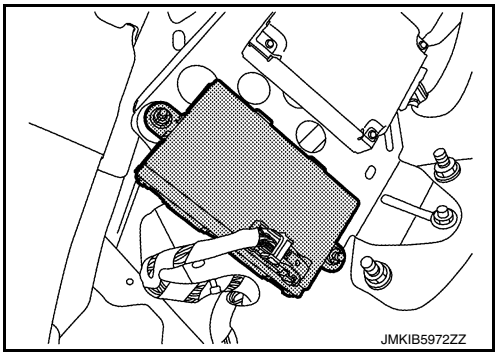
- Inside key antenna detects that Intelligent Key is within the key antenna detection area, and then transmits detection status to Intelligent Key unit.
- Front inside key antenna is installed behind center console assembly.
- Rear inside key antenna is installed behind luggage floor board.



DOOR LOCK SYSTEM : Intelligent Key Unit

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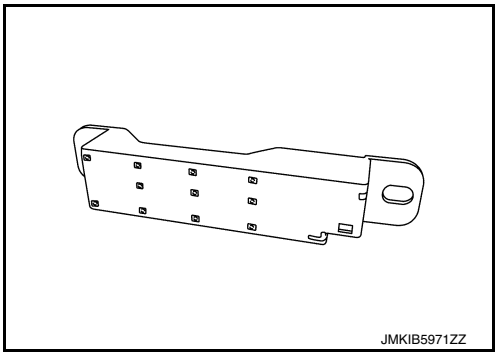
- Intelligent Key unit controls the Intelligent Key system.
- Intelligent Key unit is installed behind luggage side finisher.



DOOR LOCK SYSTEM : Outside Key Antenna

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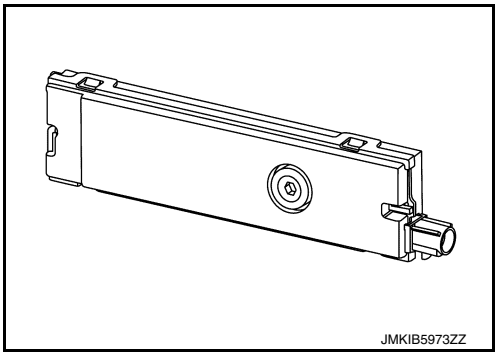
- Outside key antenna detects that Intelligent Key is within the key antenna detection area, and then transmits detection status to BCM.
- Outside key antenna is installed in the rear of rear door finisher.



DOOR LOCK SYSTEM : Remote Keyless Entry Receiver

INFOID:0000000013549969

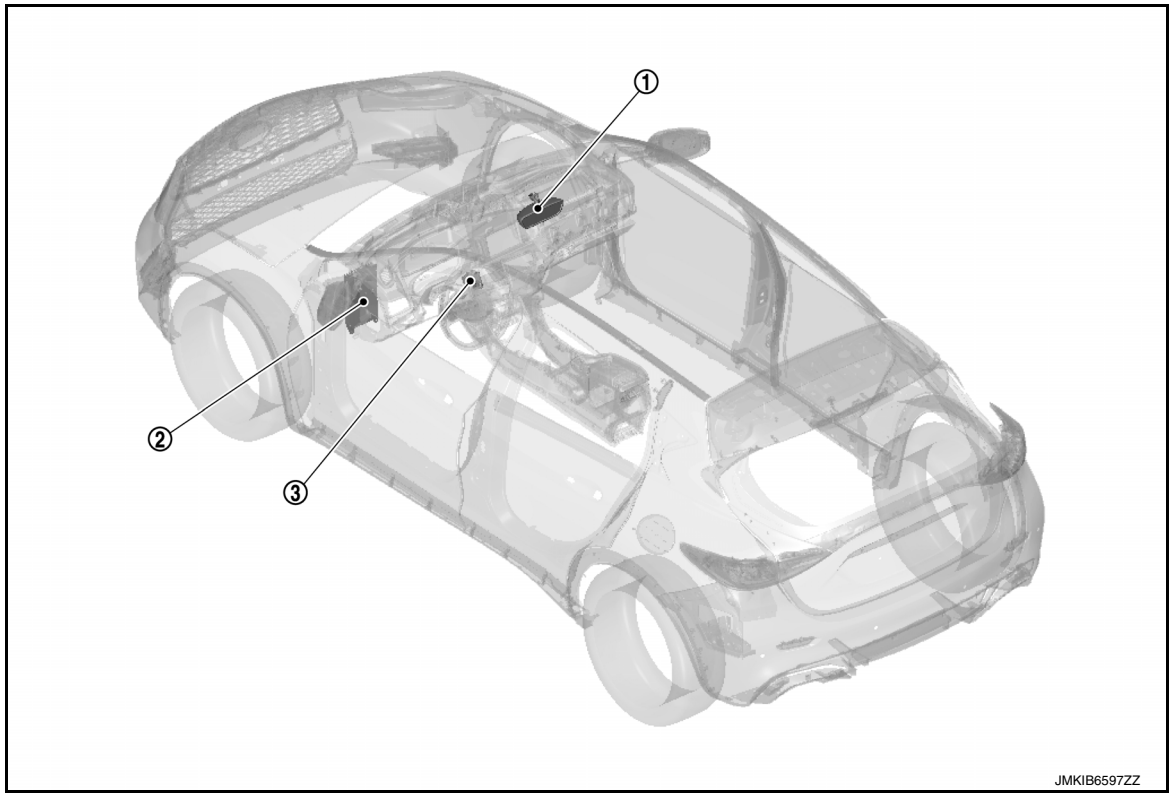
- Remote keyless entry receiver receives key ID signal of window antenna, and then transmits it to Intelligent Key unit.
- Remote keyless entry receiver is installed in the rear or back door inner finisher.



GARAGE DOOR OPENER SYSTEM

GARAGE DOOR OPENER SYSTEM : Component Parts Location

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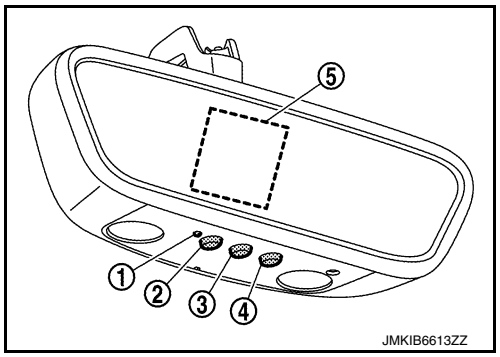


No.	Component	Function
①	Inside rear view mirror	Refer to DLK-15, "GARAGE DOOR OPENER SYSTEM : Inside Rear View Mirror".
②	BCM	BCM recieves ignition switch ON signal from electronic ignition switch control unit via CAN communication. Refer to BCS-8, "BODY CONTROL SYSTEM : Component Parts Location" for detailed installation location.
③	Electronic ignition switch control unit	Electronic ignition switch control unit transmits the ignition switch ON signal to BCM via CAN communication. Refer to PCS-5, "Component Parts Location" for detailed installation location.

GARAGE DOOR OPENER SYSTEM : Inside Rear View Mirror

INFOID:0000000013638556

- Garage door opener indicator lamp ①, garage door opener switch 1 ②, garage door opener switch 2 ③, garage door opener switch 3 ④ and garage door opener control unit ⑤ is integrated with inside rear view mirror.
- Garage door opener control unit transmits garage door opener signal to BCM via LIN communications.



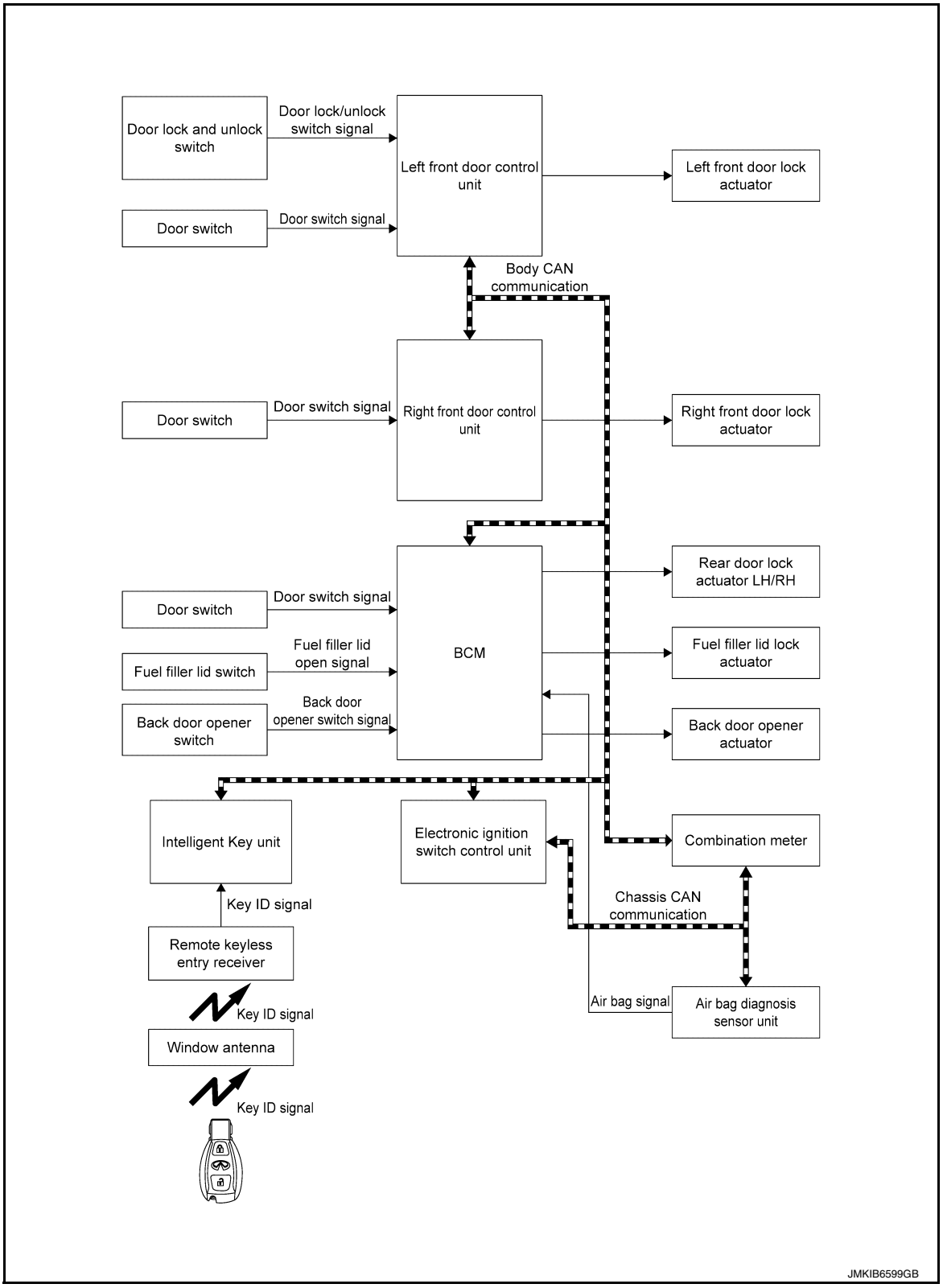
SYSTEM

CENTRAL LOCKING SYSTEM

CENTRAL LOCKING SYSTEM : System Description

INFOID:0000000013549970

SYSTEM DIAGRAM



CAN COMMUNICATION SIGNAL ITEM

CAN communication type	Transmit unit	Signal name	Receive unit
Body CAN communication	Electronic ignition switch control unit	Door lock request signal/door unlock request signal	BCM
			Left front door control unit
			Right front door control unit
Body CAN communication	Intelligent Key unit	Key ID signal	Electronic ignition switch control unit
Body CAN communication	BCM	Emergency opening signal	Electronic ignition switch control unit
			Left front door control unit
			Right front door control unit
		Door switch signal	Electronic ignition switch control unit
Body CAN communication	Left front door control unit	Door lock/unlock switch signal	Electronic ignition switch control unit
		Door switch signal	
Body CAN communication	Right front door control unit	Door switch signal	Electronic ignition switch control unit
Body CAN communication	Combination meter	Vehicle speed signal	BCM
Chassis CAN communication			Electronic ignition switch control unit
Chassis CAN communication	Air bag diagnosis sensor unit	Air bag signal	Electronic ignition switch control unit
Body CAN communication	Electronic ignition switch control unit	Air bag signal	BCM

CENTRAL LOCKING SYSTEM

The central locking system electronically locks and unlocks the vehicle doors, the back door, and the fuel filler lid.

The central locking system can be operated with the following items.

- Intelligent Key
- Door lock and unlock switch

The central locking system controls the operation function of the following items.

- Remote keyless entry function
- Door lock function
- Back door open function
- Reminder function
- Fuel filler lid unlock function
- Selective unlock function
- Auto lock function
- Vehicle speed sensing auto door lock function
- Air bag interlock unlock function
- Play protection function

REMOTE KEYLESS ENTRY FUNCTION

Operation Description

- When door lock/unlock button of the Intelligent Key is pressed, the key ID signal is transmitted from Intelligent Key to Intelligent Key unit via window antenna and remote keyless entry receiver.
- Intelligent Key unit receives the key ID signal and transmits it to the electronic ignition switch control unit via body CAN communication.
- The electronic ignition switch control unit receives the key ID signal and compares it with the registered key ID.
- The electronic ignition switch control unit transmits the door lock request signal or door unlock request signal to BCM, left front door control unit, and right front door control unit via body CAN communication.
- The BCM locks or unlocks the left rear door lock via the rear door lock actuator LH, and the right rear door lock via rear door lock actuator RH.
- The left front door control unit locks or unlocks the left front door lock via front door lock actuator LH.

• The right front door control unit locks or unlocks the right front door lock via front door lock actuator RH.

Operation Condition
When the following condition is satisfied, door lock and unlock is performed when the Intelligent Key button is pressed.

Intelligent Key button operation	Operation condition
LOCK/UNLOCK	Ignition switch: OFF

DOOR LOCK FUNCTION

Operation Description
- The door lock and unlock switch is pressed, and the door lock/unlock switch signal is transmitted from door lock and unlock switch to left front door control unit.
- The left front door control unit receives the door lock/unlock switch signal and transmits it to the electronic ignition switch control unit via body CAN communication.
- The electronic ignition switch control unit transmits door lock request signal or door unlock request signal to the BCM, left front door control unit, and right front door control unit via body CAN communication when the electronic ignition switch control unit receives the door lock/unlock switch signal.
- The BCM locks or unlocks the left rear door lock via the rear door lock actuator LH and the right rear door lock via rear door lock actuator RH.
- The left front door control unit locks or unlocks the left front door lock via front door lock actuator LH.
- The right front door control unit locks or unlocks the right front door lock via front door lock actuator RH.

Operation Condition
When all of the following conditions are satisfied, door lock function is performed when the door lock and unlock switch is operated.
- Doors are not locked using Intelligent Key.
- Passenger door is closed.

BACK DOOR OPEN FUNCTION

Operation Description
- Opening the back door via back door opener switch is enabled by the BCM.
- When back door opener switch is ON, BCM operates back door opener actuator and opens back door.

Operation Condition
All doors are unlocked

REMINDER FUNCTION

Operation Description
When doors are locked or unlock by keyfob, BCM operates hazard warning lamps as a reminder.

Door lock operation	Hazard warning lamp
LOCK	Once
UNLOCK	Twice

Operation Condition
When any door is open, reminder function does not operate according to door lock operation.

FUEL FILLER LID UNLOCK FUNCTION

Operation Description
- The BCM disables or enables the unlocking request from the fuel filler lid lock actuator.
- The fuel filler lid is pressed, and fuel filler lid open signal is transmitted from fuel filler lid switch to BCM.
- The BCM receives the fuel filler lid open signal and then the fuel filler lid opens.

Operation Condition
When any of the following conditions are satisfied.
- All doors are unlocked.
- Doors are not locked using Intelligent Key.

SELECTIVE UNLOCK FUNCTION

Operation Description
- Lock operation: when door lock button of the Intelligent Key is pressed, all doors lock.
- Unlock operation: when door unlock button of the Intelligent Key is pressed, driver door unlocks. When door unlock button is passed again, passenger door, rear doors and fuel filler lid unlock.

Setting Change of Selective Unlock Function
ON/OFF can be switched when Intelligent Key lock button and unlock button are pressed and held simultaneously for 5 seconds or more.

AUTO LOCK FUNCTION
When 40 seconds are passed after door is unlocked using Intelligent Key operation, all doors lock automatically. However, reminder function (hazard warning lamp) does not activate.

VEHICLE SPEED SENSING AUTO DOOR LOCK FUNCTION

Operation Description (Vehicle Speed Reaches 3 km/h or More)
The back door cannot open with back door opener switch when vehicle speed reaches 3 km/h or more.
- BCM receives vehicle speed signal from combination meter via body CAN communication and the back door opener switch operation is disabled.

Operation Description (Vehicle Speed Reaches 15 km/h or More)
All doors lock when vehicle speed reaches 15 km/h or more.
- The electronic ignition switch control unit receives vehicle speed signal from combination meter via chassis CAN communication.
- When vehicle speed reaches 15 km/h or more, electronic ignition switch control unit transmits door lock request signal to BCM, left front door control unit, and right front door control unit via body CAN communication and all doors are locked.

Setting Change of Vehicle Speed Sensing Auto Door Lock
The vehicle speed sensing auto door lock function ON/OFF can be switched by performing the following operation. Switching is complete when the combination meter buzzer sounds once.

Change ON/OFF with door lock and unlock switch
- ON: press and hold the door lock and unlock switch to the LOCK side for 5 seconds or more.
- OFF: press and hold the door lock and unlock switch to the UNLOCK side for 5 seconds or more.

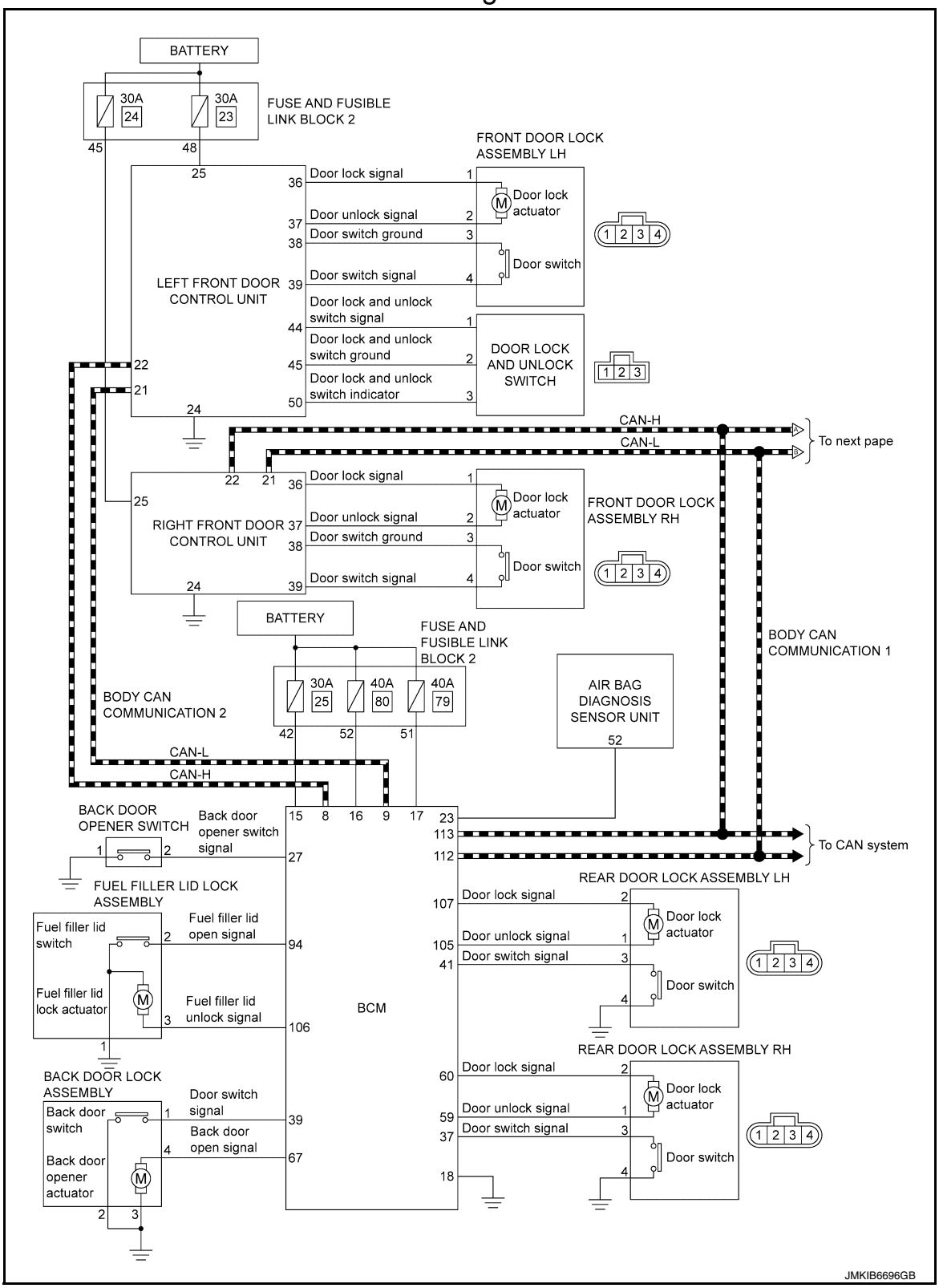
Change ON/OFF with combination meter
1. Turn ignition switch to ON.
2. Select “Setting” of combination meter menu.
3. Select “Vehicle” of “Setting”.
4. Select “Automatic door locks” of “Setting”.
5. Set ON or OFF in the “Automatic door locks” and touch OK button.

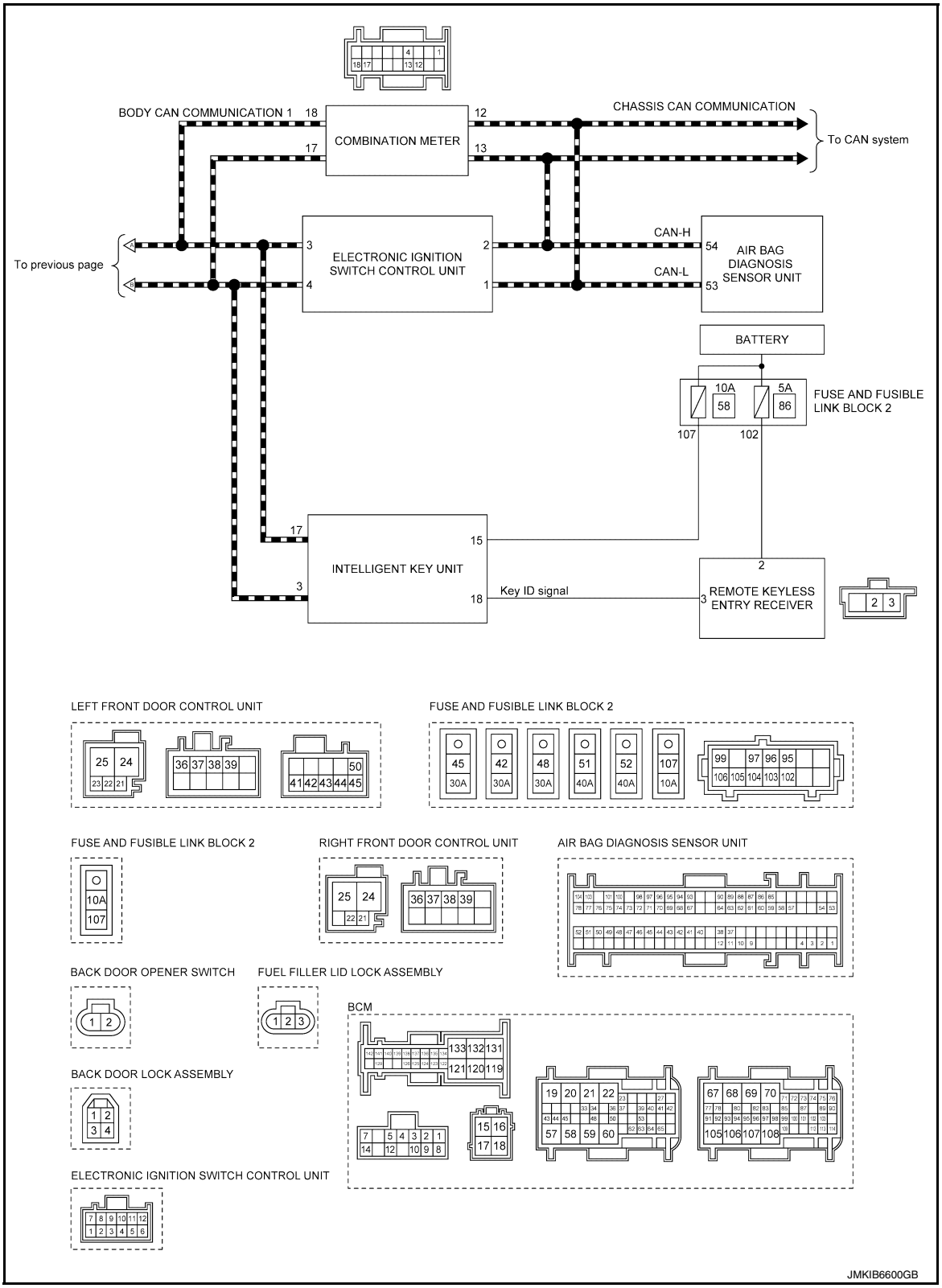
AIR BAG INTERLOCK UNLOCK FUNCTION
- Air bag diagnosis sensor unit transmits air bag signal to electronic ignition switch control unit via chassis CAN communication.
- The electronic ignition switch control unit transmits air bag signal to BCM via body CAN communication.
- Air bag diagnosis sensor unit transmits air bag signal to BCM.
- When BCM receives air bag signal from the electronic ignition switch control unit and air bag diagnosis sensor unit, it transmits emergency opening signal to left front door control unit, right front door control unit, and electronic ignition switch control unit.
- All doors and fuel filler lid are automatically unlocked when performed this function operates for 11 seconds or more continuously.

PLAY PROTECTION FUNCTION
Each actuation of the central locking system is counted by the electronic ignition switch control unit. The maximum number of actuations is 40. If this value is reached, additional actuation requests are not accomplished for the central locking system. One actuation is deducted from the current counter status when this function operates for 7 seconds continuously. Actuation of the central locking system is possible only after counter is below the value of 40.

CENTRAL LOCKING SYSTEM : Circuit Diagram

INFOID:0000000013549971



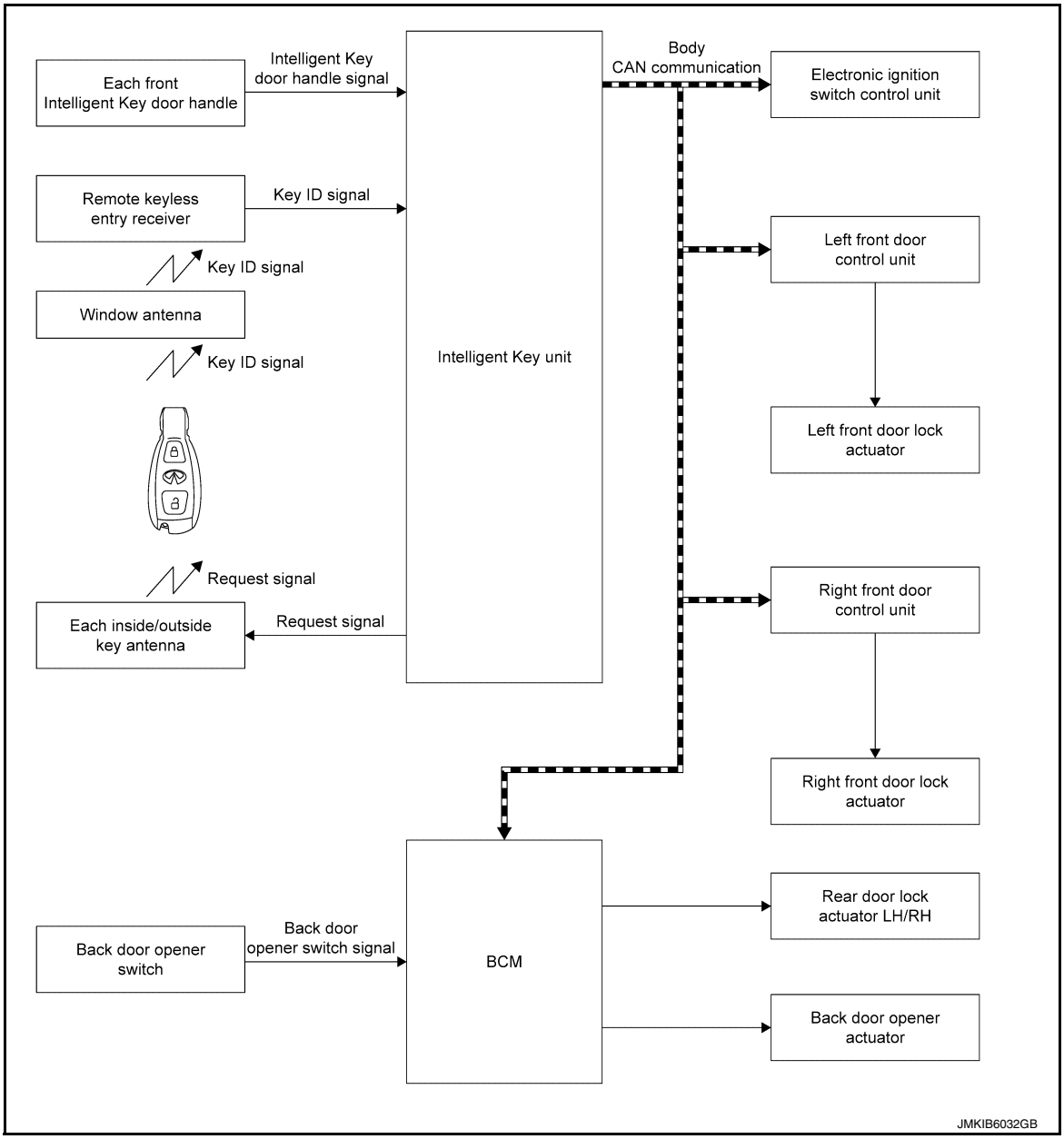


INTELLIGENT KEY SYSTEM

INTELLIGENT KEY SYSTEM : System Description

INFOID:0000000013549972

SYSTEM DIAGRAM



CAN COMMUNICATION SIGNAL ITEM

CAN communication type	Transmit unit	Signal name	Receive unit
Body CAN communication	Intelligent Key unit	Key ID signal	Electronic ignition switch control unit
Body CAN communication	Electronic ignition switch control unit	Door lock request signal/door unlock request signal	BCM
			Left front door control unit
			Right front door control unit
		Back door open request signal	BCM
Body CAN communication	BCM	Back door opener switch signal	Intelligent Key unit

INTELLIGENT KEY SYSTEM

The Intelligent Key system comfort feature allows remote locking/unlocking of the vehicle as well as starting and switching off the engine without inserting the Intelligent Key into the ignition switch. For performing these operations, the driver must carry the Intelligent Key.

NOTE:

The driver should always carry the Intelligent Key.

The Intelligent Key system controls the operation of the following functions.

- Engine start function
- One touch door lock/unlock function
- Back door open function
- Selective unlock function
- Reminder function

ENGINE START FUNCTION

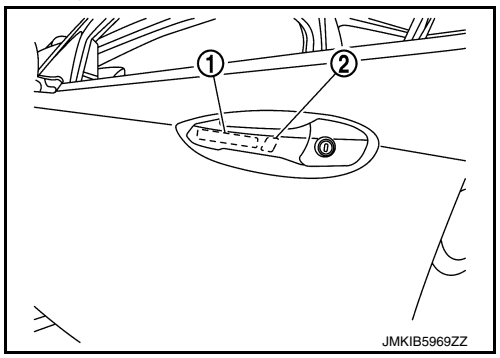
The engine can be turned on when the Intelligent Key is carried. Refer to SEC-7, "INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION : System Description".

ONE TOUCH DOOR LOCK/UNLOCK FUNCTION

Lock/Unlock Door

Unlock door operation: touch the inner surface of front door outside handle grip.

Lock door operation: touch front door outside handle grip surface ① or ②.



Operation Description

- When the Intelligent Key unit detects that front Intelligent Key door handle is ON, it starts the inside key antenna and outside key antenna corresponding to the outside handle grip operation and transmits the request signal to the Intelligent Key. It then checks that the Intelligent Key is outside the vehicle.
- 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 Intelligent Key unit via the window antenna and remote keyless entry receiver.
- Intelligent Key unit receives the key ID signal and transmits it to the electronic ignition switch control unit via body CAN communication.
- The electronic ignition switch control unit receives the key ID signal and compares it with the registered key IDs.
- The electronic ignition switch control unit transmits door lock request signal or door unlock request signal to BCM, left front door control unit, and right front door control unit via body CAN communication.
- The BCM locks or unlocks the left rear door lock via the rear door lock actuator LH and the right rear door lock via rear door lock actuator RH.
- The left front door control unit locks or unlocks the left front door lock via front door lock actuator LH.
- The right front door control unit locks or unlocks the right front door lock via front door lock actuator RH.

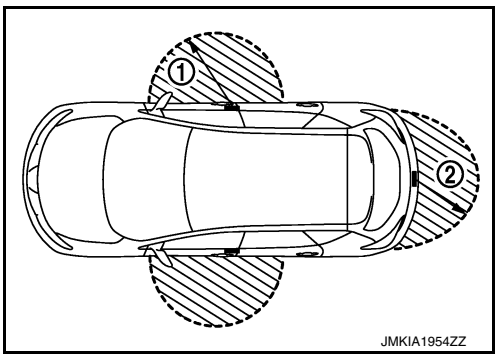
Operation Condition

When the following conditions are satisfied, one touch door lock/unlock is performed.

- Ignition switch: OFF
- Intelligent Key is outside the vehicle.

KEY ANTENNA DETECTION AREA

The outside key antenna detection areas of one touch door lock/unlock function are within approximately 1 m (39.37 in) of the driver side outside door handle and passenger side outside door handle ①. The rear inside key antenna detection area of luggage room and one touch door lock/unlock function is within approximately 1 m (39.37 in) surrounding back door opener switch ②. However, the operating range may vary according to ambient conditions.



BACK DOOR OPEN FUNCTION

Operation Description

- When back door opener switch is ON, the back door opener switch signal is transmitted from BCM to Intelligent Key unit via body CAN communication.
- When the Intelligent Key unit receives the back door opener switch signal, it starts the inside key antenna and outside key antenna corresponding to the pressed back door opener switch and transmits the request signal to the Intelligent Key. It then judges if the Intelligent Key is detected near the back door.
- When the Intelligent Key is within the rear inside key antenna detection area, it receives the request signal and transmits the key ID signal to the Intelligent Key unit via window antenna and remote keyless entry receiver.
- Intelligent Key unit receives the key ID signal and transmits it to the electronic ignition switch control unit via body CAN communication.
- The electronic ignition switch control unit receives the key ID signal and compares it with the registered key IDs.
- The electronic ignition switch control unit transmits back door open request signal to BCM via body CAN communication.
- The BCM opens the back door via back door opener actuator.

Operation Condition

When the following conditions are satisfied, the back door can be opened.

- All doors are locked.
- Registered Intelligent Key is within rear inside key antenna detection area.

SELECTIVE UNLOCK FUNCTION

Operation Description

- Lock operation: when one touch door lock/unlock function (lock operation) is operated, all doors lock.
- Unlock operation: when one touch door lock/unlock function (unlock operation) is operated, driver door unlocks. When one touch door lock/unlock function (unlock operation) is operated again, passenger door, rear doors and fuel filler lid unlock.

Setting Change of Selective Unlock Function

ON/OFF can be switched when Intelligent Key (with Intelligent Key system) or keyfob (without Intelligent Key system) lock button and unlock button are pressed and held simultaneously for 5 seconds or more.

REMINDER FUNCTION

Operation Description

When doors are locked or unlocked using one touch door lock/unlock function, BCM operates hazard warning lamp as a reminder.

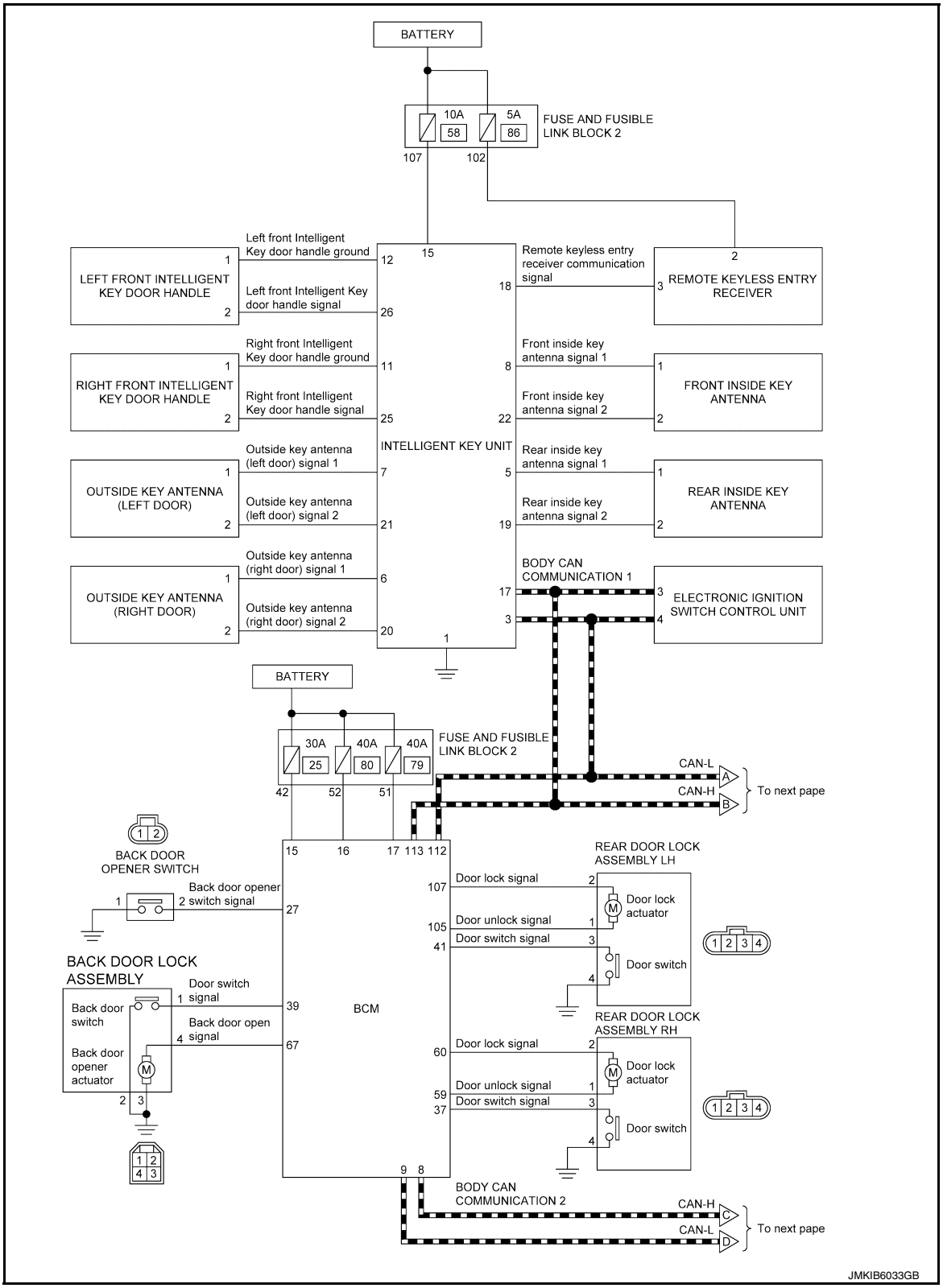
Door lock operation	Hazard warning lamp
LOCK	Once
UNLOCK	Twice

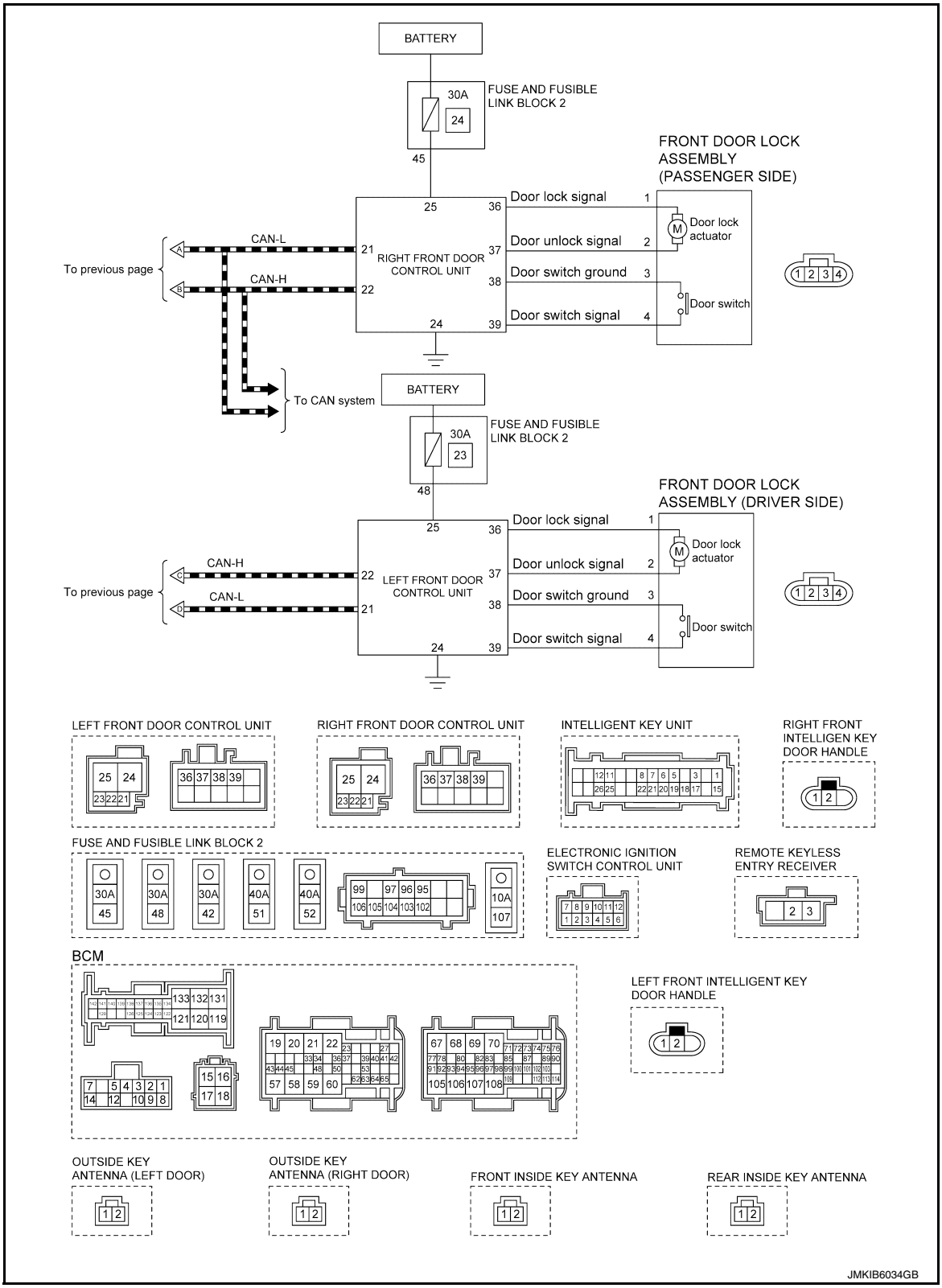
Operation Condition

When any door is open, reminder function does not operate according to door lock operation.

INTELLIGENT KEY SYSTEM : Circuit Diagram

INFOID:0000000013549973



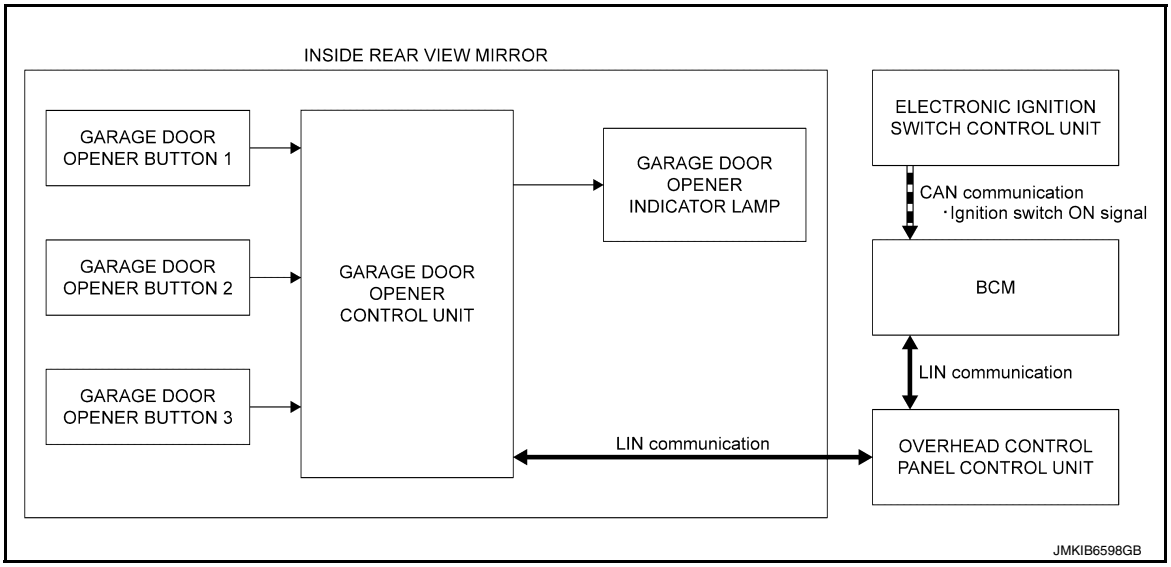


GARAGE DOOR OPENER SYSTEM

GARAGE DOOR OPENER SYSTEM : System Description

INFOID:0000000013637897

SYSTEM DIAGRAM



OUTLINE

The garage door opener system is a system that allows the garage door to be opened from inside the vehicle by operating the inside rearview mirror switch.
The use of this system requires that a garage door transmitter be registered ahead of time to the garage door opener control unit, which is integrated in the inside rearview mirror.
Up to three garage door transmitters can be registered in the garage door opener control unit.

MEMORY REGISTRATION PROCEDURE

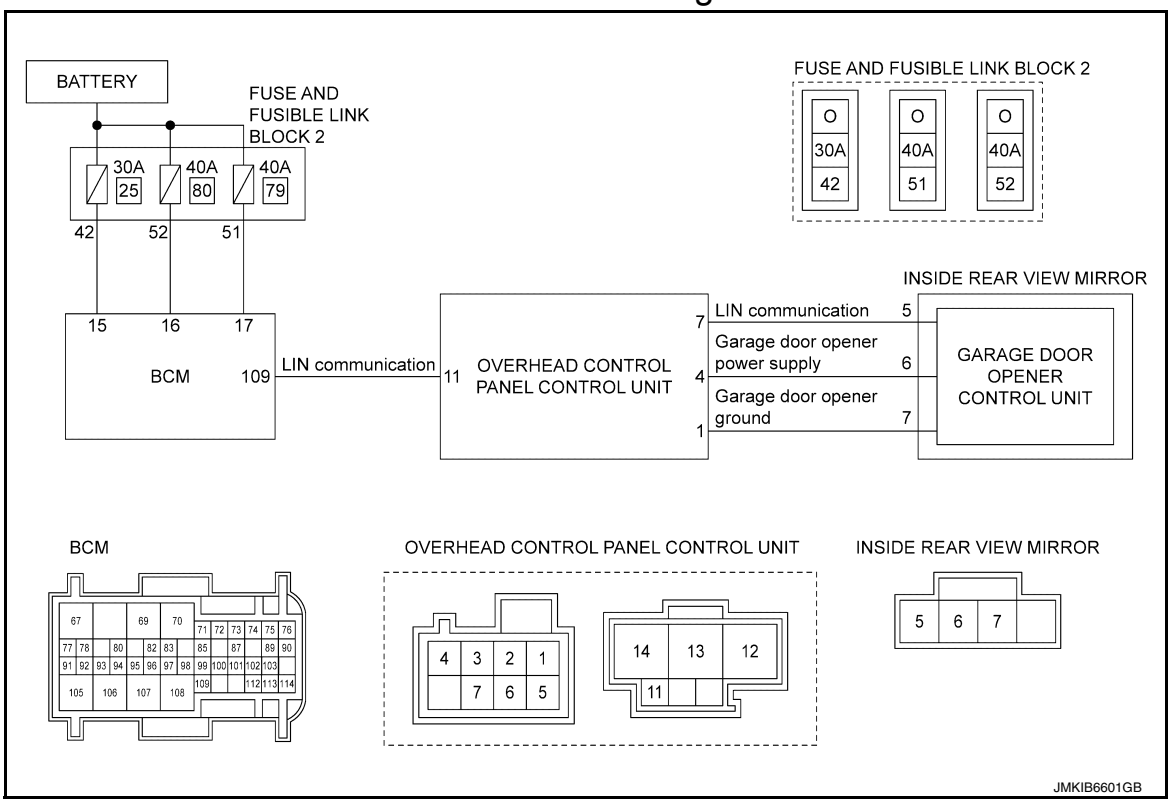
1. Press garage door opener switch 1, 2, or 3 of the inside rear view mirror for 10 seconds or more.
2. Check that the inside rear view mirror garage door opener indicator lamp (yellow) blinks.
3. Put the garage door transmitter to be registered close to the inside rear view mirror (3 to 20 cm), and press the garage door transmitter button.
4. When registration ends normally, the green garage door opener indicator lamp illuminates or flashes.
   NOTE:
   If registration is not successful, the red garage door opener indicator lamp illuminates.

MEMORY ERASING PROCEDURE

1. Press inside rear view mirror garage door opener switches 1 and 3 for 10 seconds or more.
2. The inside rear view mirror garage door opener indicator lamp (green) flashes for 10 seconds.
3. Stop pressing the garage door opener switch while garage door opener indicator lamp (green) is flashing.
   NOTE:
   When step 3 is finished, press garage door opener switch 1, 2 or 3 to continue memory registration.

GARAGE DOOR OPENER SYSTEM : Circuit Diagram

INFOID:0000000013637898



WARNING CHIME

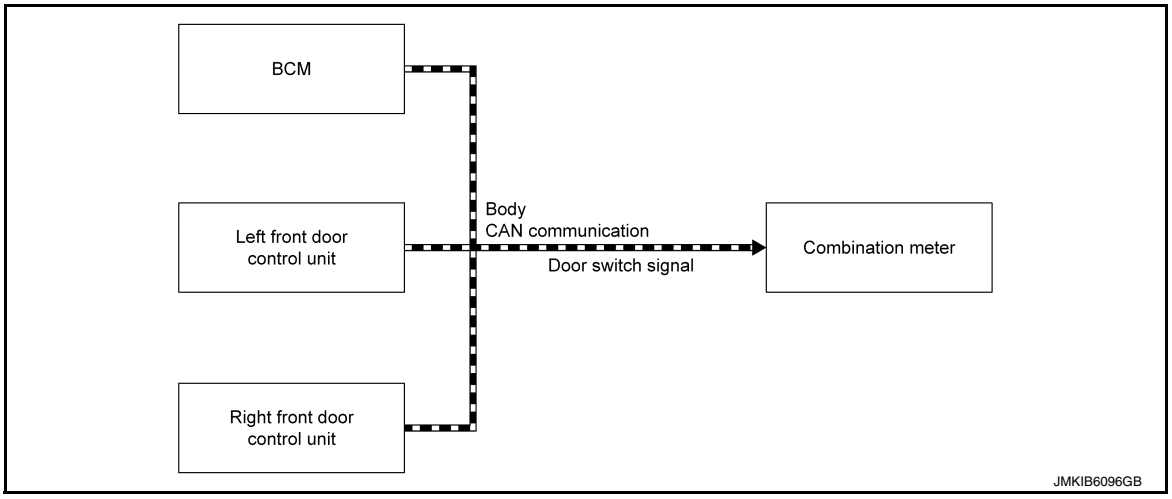
WARNING CHIME : Door Open Reminder

INFOID:0000000013549974

PURPOSE

Door open reminder warns the driver that each door is open or is not fully closed.

SYSTEM DIAGRAM



SIGNAL PATH

- BCM, left front door control unit, and right front door control unit transmits door switch signal to combination meter.
- When combination meter judges according to received door switch signal that a door is open or not fully closed, door open reminder warns.

DIAGNOSIS SYSTEM (INTELLIGENT KEY)

CONSULT Function (INTELLIGENT KEY)

INFOID:0000000013549975

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with Intelligent Key unit.

Diagnosis mode	Function Description
Self Diagnostic Result	Displays the diagnosis results judged by Intelligent Key unit
Data Monitor	The Intelligent Key unit input/output signals are displayed
Ecu Identification	The Intelligent Key unit part number is displayed
Active Test	The signals used to activate each device are forcibly supplied from Intelligent Key unit
Configuration	Writes the vehicle specification when replacing Intelligent Key unit

DATA MONITOR

NOTE:

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

Monitor Item	Description
SUPPLY VOLTAGE	Display the status of battery supply judged by Intelligent Key unit
Country	Display the specification destination of Intelligent Key system
CENTRAL LOCKING	Display the status of door lock function
LEFT FRONT DOOR	Display the status of left front door lock
LEFT REAR DOOR	Display the status of left rear door lock
RIGHT FRONT DOOR	Display the status of right front door lock
RIGHT REAR DOOR	Display the status of right rear door lock
TRUNK LID/LIFTGATE	Display the status of back door lock
STATUS OF CIRCUIT	Display the battery supply circuit type.
SUPPLY VOLTAGE VIA CAN	Display the status of battery supply via CAN communication
LH FR DR RTRY TMBLR SW	Display the status of left front door open/close
RH FR DR RTRY TMBLR SW	Display the status of right front door open/close
LH RR DR RTRY TMBLR SW	Display the status of left rear door open/close
RH RR DR RTRY TMBLR SW	Display the status of right rear door open/close
TRUNK LID EXTRNL OP SW	Display the status of back door opener switch signal
LH FR KEYLESS DR HANDLE	Display the status of left front Intelligent Key door handle operation judged by Intelligent Key unit
LH RR KEYLESS DR HANDLE	**NOTE:** This item is displayed, but cannot be used
RH FR KEYLESS DR HANDLE	Display the status of right front Intelligent Key door handle operation judged by Intelligent Key unit
RH RR KEYLESS DR HANDLE	**NOTE:** This item is displayed, but cannot be used
REAR SWITCHING MODULE	**NOTE:** This item is displayed, but cannot be used
KEY OR KEY TRACK 1	–
KEY OR KEY TRACK 2	–
KEY OR KEY TRACK 3	–
KEY OR KEY TRACK 4	–
KEY OR KEY TRACK 5	–

Monitor Item	Description
KEY OR KEY TRACK 6	–
KEY OR KEY TRACK 7	–
KEY OR KEY TRACK 8	–

ACTIVE TEST

Monitor Item	Description
Check Intelligent Key antenna	This function able to check inside key antenna and outside key antenna operation
Check left front Intelligent Key door handle	This function able to check left front Intelligent Key door handle operation
Check left rear Intelligent Key door handle	**NOTE:** This item is displayed, but cannot be used
Check right rear Intelligent Key door handle	**NOTE:** This item is displayed, but cannot be used
Intelligent Key search	This function able to check Intelligent Key position

SELF DIAGNOSTIC RESULT

Refer to DLK-47, "DTC Index".

DIAGNOSIS SYSTEM (LEFT FRONT DOOR CONTROL UNIT)

CONSULT Function (Left Front Door Control Unit)

INFOID:0000000013549976

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with left front door control unit.

Diagnosis mode	Function Description
Self Diagnostic Result	Displays the diagnosis results judged by left front door control unit
Data Monitor	The left front door control unit input/output signals are displayed
Ecu Identification	The left front door control unit part number is displayed
Work Support	Changes the setting for system function
Active Test	The signals used to activate each device are forcibly supplied from left front door control unit
Configuration	Writes the vehicle specification when replacing left front door control unit

DATA MONITOR

NOTE:

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

Monitor Item	Description
OPEN CENTRAL LOCKING	–
CLOSE CENTRAL LOCKING	–
RR LID REMOTE RELEASE-SW	–
RR LID REMOTE CLOSE-SW	–
MAN-NOTCH (DR OPEN)	–
MICROSWITCH (PRELATCH)	–
EXIT AND WARNING LAMP	–
MIRROR INDICATOR ACTIVE	–
DOOR INSIDE HANDLE ACTIVE	–
ENTRANCE LAMP ACTIVE	–
LIGHT BAR 1	–
I/L (BLIND SPOT ASSIST)	Display the status of BSW indicator
W/L (BLIND SPOT ASSIST)	Display the status of BSW indicator
LIGHT BAR 2	–
SWITCH ILLUMINATION	Display the status of switch illumination
CHILD SAFETY LOCK	Display the status of power window lock
LH OUTSIDE MIRROR ADJUST	Display the status of outside mirror LH adjustment operation
RH OUTSIDE MIRROR ADJUST	Display the status of outside mirror RH adjustment operation
BRIGHT VALUE OF SW ILLUMI	Display the status of switch illumination
LH FRONT POWER WINDOW	Display the status of left front power window operation
RH FRONT POWER WINDOW	Display the status of right front power window operation
LH REAR POWER WINDOW	Display the status of left rear power window operation
RH REAR POWER WINDOW	Display the status of right rear power window operation
CHILD SECURITY LOCK	Display the status of power window lock
VENT WINDOWS	–
POS OF POWER WINDOW	Display the status of power window position
POWER WINDOW	–

Monitor Item	Description
POWER WINDOW BLOCKAGE	–
PW RLY (TOWARD RAISING)	–
PW RLY (TOWARD LOWERING)	–
PW RLY (SWITCHES)	–
POWER WINDOW MOTOR	Display the status of right rear power window motor
OUTSIDE MIRROR ADJUST	Display the status of outside mirror adjustment operation
LEFT MIRROR SELECTION	Display the status of outside mirror LH operation
RIGHT MIRROR SELECTION	Display the status of outside mirror RH operation
FOLD IN/OUT OUTSIDE MIR	Display the status of outside mirror folding operation
MIRROR GLASS UP	Display the status of outside mirror glass operation
MIRROR GLASS DOWN	Display the status of outside mirror glass operation
MIRROR GLASS TO RIGHT	Display the status of outside mirror glass operation
MIRROR GLASS TO LEFT	Display the status of outside mirror glass operation
FOLDING-IN OUTSIDE MIR	Display the status of outside mirror folding operation
FOLDING-OUT OUTSIDE MIR	Display the status of outside mirror folding operation
MOVING DEFAULT POSITION	–
SPEC PTMR HRZTL INC ADJ	–
SPEC PTMR VRTCL INC ADJ	–
ACTL PTMR HRZTL INC ADJ	–
ACTL PTMR VRTCL INC ADJ	–
MIRROR HEATER ACTIVE	Display the status of door mirror defogger operation
SPEC HZL INC ADJ PARK POS	–
SPEC VTL INC ADJ PARK POS	–
SPEC HZL INC ADJ DFLT POS	–
SPEC VTL INC ADJ DFLT POS	–
MOVE TO PARKING POSITION	–
PARKING START POSITION	–
SEAT FORE/AFT ADJUSTMENT	–
SEAT HEIGHT ADJUSTMENT	–
SEAT INCLINATION ADJUSTMENT	–
BACKREST ADJUSTMENT	–
HEAD RESTRAINT SETTING	–
SWITCH 1 FOR MEMORY FUNCTION	Display the status of seat memory switch operation
SWITCH 2 FOR MEMORY FUNCTION	Display the status of seat memory switch operation
SWITCH 3 FOR MEMORY FUNCTION	Display the status of seat memory switch operation
SWITCH M FOR MEMORY FUNCTION	Display the status of seat memory switch operation
INFRARED SIG VALID KEY	–
INFRARED SIG INVALID KEY	–
DISRUPT OF INFRARED SIG	–
INFRARED SIG CNVN FTURE	–
CONVENIENCE FEATURE	–
DR DOR INRED RMT CNT RCV	–

Monitor Item	Description
UNLOCK CENTRAL LOCKING	Display the status of door unlock operation
LOCK CENTRAL LOCKING	Display the status of door lock operation
ACTIVATE ADD DR LOCK	**NOTE:** This item is displayed, but cannot be monitored.
DEACTIVATE ADD DR LOCK	**NOTE:** This item is displayed, but cannot be monitored.
LIN COMPONENT	–
WINDOW LOWERING	–
WINDOW RAISING	–
INCORRECT VIN	–
HALL SEN OR SIGNAL FAULTY	–
RLY STICK IN SWITCH STATE	–
CHECKSUM ERROR	–
DENML POW WND VIA DIG CM	–
UNDRVLT ACT OF POW WND	–
WCDG RST ACT OF POW WND	–
WIND RAIS FROM UPP STOP	–
INITITATE CNTR IN LOW BLCK	–
REVERSAL OF POW WINDOW	–
CRNT LMT VLE IN RNG 1	–
CRNT LMT VLE IN RNG 3	–
CRNT LMT VLE IN RNG 2	–
CRNT LMT VLE IN RNG 1 POS	–
CRNT LMT VLE IN RNG 3 POS	–
CRNT LMT VLE IN RNG 2 POS	–
STRE LMT VLE IN RNG 1	–
STRE LMT VLE IN RNG 3	–
STRE LMT VLE IN RNG 2	–
STRE LMT VLE IN RNG 1 POS	–
STRE LMT VLE IN RNG 3 POS	–
STRE LMT VLE IN RNG 2 POS	–
SEAT CUSHION LENGTH	–
FR PASSENGER SEAT ADJUST-MENT	–
ACT MTR POW CLS DRT CLS	–
STATUS LED SWITCH TRAILER HITCH	–
STATUS SWITCH TRAILER HITCH	–
ACTUAL VALUE STATUS	–

WORK SUPPORT

Monitor Item	Description
Power window initialization	This function able to perform the power window system initialization

ACTIVE TEST

Monitor Item	Description
Front door lock actuator left	This function able to check front door lock actuator LH operation
Front door switch illumination left	This function able to check switch illumination operation
Front super lock actuator left	This function able to check front door super lock actuator LH operation
Front door handle illumination left	This function able to check ambient lamp (front inside handle) LH operation
Front door exit and warning lamp left	This function able to check front door step lamp LH operation
Front door ambience illumination left	This function able to check ambient lamp (front door grip) LH operation
Side turn signal lamp left	This function able to check side turn signal lamp operation
Front power window motor left	This function able to check front power window motor LH operation
Outside mirror ambient lamp left	This function able to check ambient lamp (outside mirror) LH operation
Left blind spot assist warning	This function able to check BSW indicator operation
Auto anti-dazzling mirror	This function able to check auto anti-dazzling mirror operation
Power folding unit	–
Door mirror defogger	This function able to outside mirror defogger operation
Adjustment actuator motor via actuation	This function able to check outside mirror adjustment operation
Vertical and horizontal inclination adjustment	This function able to check outside mirror adjustment operation
Left memory function	This function able to check left seat memory operation
Denormalization of left front power window	–
Left outside mirror adjust	This function able to check left outside mirror adjustment operation
LEDs	This function able to check mirror and power window lock switch illumination operation
Control unit reset	–

SELF DIAGNOSTIC RESULT

Refer to DLK-60, "DTC Index".

DIAGNOSIS SYSTEM (RIGHT FRONT DOOR CONTROL UNIT)

CONSULT Function (Right Front Door Control Unit)

INFOID:0000000013549977

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with right front door control unit.

Diagnosis mode	Function Description
Self Diagnostic Result	Displays the diagnosis results judged by right front door control unit
Data Monitor	The right front door control unit input/output signals are displayed
Ecu Identification	The right front door control unit part number is displayed
Work Support	Changes the setting for system function
Active Test	The signals used to activate each device are forcibly supplied from right front door control unit
Configuration	Writes the vehicle specification when replacing right front door control unit

DATA MONITOR

NOTE:

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

Monitor Item	Description
OPEN CENTRAL LOCKING	Display the status of left front door open
CLOSE CENTRAL LOCKING	Display the status of left front door close
RR LID REMOTE RELEASE-SW	–
RR LID REMOTE CLOSE-SW	–
MAN-NOTCH (DR OPEN)	–
MICROSWITCH (PRELATCH)	–
EXIT AND WARNING LAMP	–
MIRROR INDICATOR ACTIVE	–
DOOR INSIDE HANDLE ACTIVE	–
ENTRANCE LAMP ACTIVE	–
LIGHT BAR 1	–
I/L (BLIND SPOT ASSIST)	Display the status of BSW indicator
W/L (BLIND SPOT ASSIST)	Display the status of BSW indicator
LIGHT BAR 2	–
SWITCH ILLUMINATION	Display the status of switch illumination
CHILD SAFETY LOCK	Display the status of power window lock
LH OUTSIDE MIRROR ADJUST	Display the status of outside mirror LH adjustment operation
RH OUTSIDE MIRROR ADJUST	Display the status of outside mirror RH adjustment operation
BRIGHT VALUE OF SW ILLUMI	Display the status of switch illumination
LH FRONT POWER WINDOW	Display the status of left front power window operation
RH FRONT POWER WINDOW	Display the status of right front power window operation
LH REAR POWER WINDOW	Display the status of left rear power window operation
RH REAR POWER WINDOW	Display the status of right rear power window operation
CHILD SECURITY LOCK	Display the status of power window lock
VENT WINDOWS	–
POS OF POWER WINDOW	Display the status of power window position
POWER WINDOW	–

Monitor Item	Description
POWER WINDOW BLOCKAGE	–
PW RLY (TOWARD RAISING)	–
PW RLY (TOWARD LOWERING)	–
PW RLY (SWITCHES)	–
POWER WINDOW MOTOR	Display the status of right rear power window motor
OUTSIDE MIRROR ADJUST	Display the status of outside mirror adjustment operation
LEFT MIRROR SELECTION	Display the status of outside mirror LH operation
RIGHT MIRROR SELECTION	Display the status of outside mirror RH operation
FOLD IN/OUT OUTSIDE MIR	Display the status of outside mirror folding operation
MIRROR GLASS UP	Display the status of outside mirror glass operation
MIRROR GLASS DOWN	Display the status of outside mirror glass operation
MIRROR GLASS TO RIGHT	Display the status of outside mirror glass operation
MIRROR GLASS TO LEFT	Display the status of outside mirror glass operation
FOLDING-IN OUTSIDE MIR	Display the status of outside mirror folding operation
FOLDING-OUT OUTSIDE MIR	Display the status of outside mirror folding operation
MOVING DEFAULT POSITION	–
SPEC PTMR HRZTL INC ADJ	–
SPEC PTMR VRTCL INC ADJ	–
ACTL PTMR HRZTL INC ADJ	–
ACTL PTMR VRTCL INC ADJ	–
MIRROR HEATER ACTIVE	Display the status of door mirror defogger operation
SPEC HZL INC ADJ PARK POS	–
SPEC VTL INC ADJ PARK POS	–
SPEC HZL INC ADJ DFLT POS	–
SPEC VTL INC ADJ DFLT POS	–
MOVE TO PARKING POSITION	–
PARKING START POSITION	–
SEAT FORE/AFT ADJUSTMENT	–
SEAT HEIGHT ADJUSTMENT	–
SEAT INCLINATION ADJUSTMENT	–
BACKREST ADJUSTMENT	–
HEAD RESTRAINT SETTING	–
SWITCH 1 FOR MEMORY FUNCTION	Display the status of seat memory switch operation
SWITCH 2 FOR MEMORY FUNCTION	Display the status of seat memory switch operation
SWITCH 3 FOR MEMORY FUNCTION	Display the status of seat memory switch operation
SWITCH M FOR MEMORY FUNCTION	Display the status of seat memory switch operation
INFRARED SIG VALID KEY	–
INFRARED SIG INVALID KEY	–
DISRUPT OF INFRARED SIG	–
INFRARED SIG CNVN FTURE	–
CONVENIENCE FEATURE	–
DR DOR INRED RMT CNT RCV	–

Monitor Item	Description
UNLOCK CENTRAL LOCKING	Display the status of door unlock operation
LOCK CENTRAL LOCKING	Display the status of door lock operation
ACTIVATE ADD DR LOCK	**NOTE:** This item is displayed, but cannot be monitored.
DEACTIVATE ADD DR LOCK	**NOTE:** This item is displayed, but cannot be monitored.
LIN COMPONENT	–
WINDOW LOWERING	–
WINDOW RAISING	–
INCORRECT VIN	–
HALL SEN OR SIGNAL FAULTY	–
RLY STICK IN SWITCH STATE	–
CHECKSUM ERROR	–
DENML POW WND VIA DIG CM	–
UNDRVLT ACT OF POW WND	–
WCDG RST ACT OF POW WND	–
WIND RAIS FROM UPP STOP	–
INITITATE CNTR IN LOW BLCK	–
REVERSAL OF POW WINDOW	–
CRNT LMT VLE IN RNG 1	–
CRNT LMT VLE IN RNG 3	–
CRNT LMT VLE IN RNG 2	–
CRNT LMT VLE IN RNG 1 POS	–
CRNT LMT VLE IN RNG 3 POS	–
CRNT LMT VLE IN RNG 2 POS	–
STRE LMT VLE IN RNG 1	–
STRE LMT VLE IN RNG 3	–
STRE LMT VLE IN RNG 2	–
STRE LMT VLE IN RNG 1 POS	–
STRE LMT VLE IN RNG 3 POS	–
STRE LMT VLE IN RNG 2 POS	–
RIGHT SEAT CUSHION LENGTH SW	–
FR PASSENGER SEAT ADJUST-MENT	–
ACT MTR POW CLS DRT CLS	–
STATUS LED SWITCH TRAILER HITCH	–
STATUS SWITCH TRAILER HITCH	–
ACTUAL VALUE STATUS	–

WORK SUPPORT

Monitor Item	Description
Power window initialization	This function able to perform the power window system initialization

ACTIVE TEST

Monitor Item	Description
Front door exit and warning lamp right	This function able to check front door step lamp RH operation
Adjustment actuator motor via actuation	This function able to check outside mirror adjustment operation
Front door lock actuator right	This function able to check front door lock actuator RH operation
Front door switch illumination right	This function able to check switch illumination operation
Front super lock actuator right	This function able to check front door super lock actuator RH operation
Front door handle illumination right	This function able to check ambient lamp (front inside handle) RH operation
Front door ambience illumination right	This function able to check ambient lamp (front door grip) RH operation
Side turn signal lamp right	This function able to check side turn signal lamp operation
Front power window motor right	This function able to check front power window motor RH operation
Outside mirror ambient lamp right	This function able to check ambient lamp (outside mirror) RH operation
Right blind spot assist warning	This function able to check BSW indicator operation
Auto anti-dazzling mirror	This function able to check auto anti-dazzling mirror operation
Power folding unit	–
Door mirror defogger	This function able to outside mirror defogger operation
Vertical and horizontal inclination adjustment	This function able to check outside mirror adjustment operation
Right memory function	This function able to check right seat memory operation
Right outside mirror adjust	This function able to check right outside mirror adjustment operation
Denormalization of right rear power window	–
LEDs	This function able to check mirror and power window lock switch illumination operation
Control unit reset	–

SELF DIAGNOSTIC RESULT

Refer to DLK-70, "DTC Index".

DIAGNOSIS SYSTEM (GARAGE DOOR OPENER CONTROL UNIT)

CONSULT Function (GARAGE DOOR OPENER CONTROL UNIT)

INFOID:0000000013637989

APPLICATION ITEM

CONSULT performs the following functions via LIN communication with garage door opener control unit.

Diagnosis mode	Function Description
Work Support	Changes the setting for system function
Ecu Identification	The garage doop opener control unit part number is displayed

WORK SUPPORT

Monitor Item	Description
Writing security byte	—
Activation of LIN description file	—
Initial startup	—

ECU DIAGNOSIS INFORMATION

BCM, ELECTRONIC IGNITION SWITCH CONTROL UNIT

List of ECU Reference

INFOID:0000000013549978

BCM

ECU	Reference
BCM	BCS-32, "Reference Value"
	BCS-50, "Fail-safe"
	BCS-51, "DTC Index"

ELECTRONIC IGNITION SWITCH CONTROL UNIT

ECU	Reference
Electronic ignition switch control unit	PCS-10, "Reference Value"
	PCS-12, "Fail-safe"
	PCS-12, "DTC Index"

INTELLIGENT KEY UNIT

Reference Value

INFOID:0000000013549979

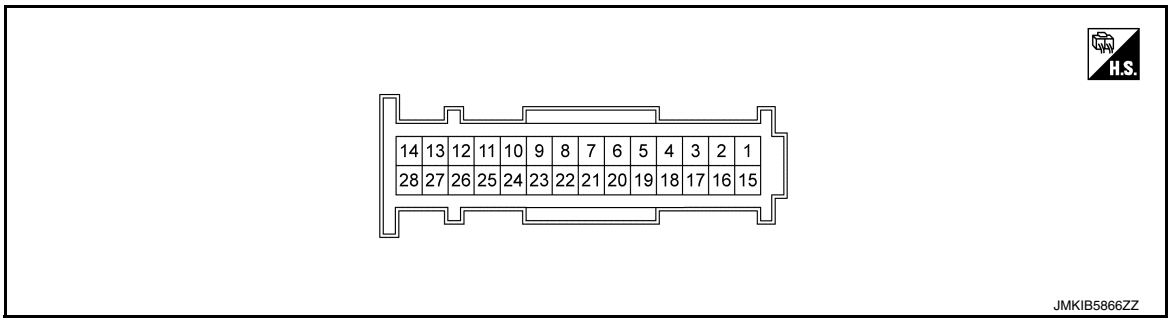
VALUES ON THE DIAGNOSIS TOOL

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

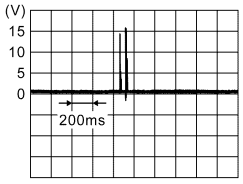
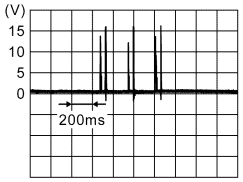
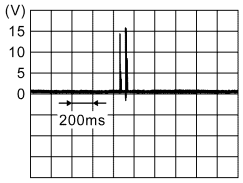
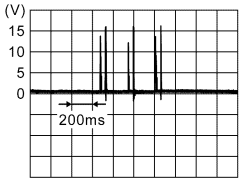
CONSULT MONITOR ITEM

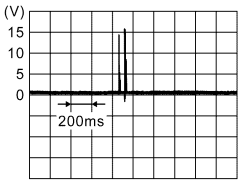
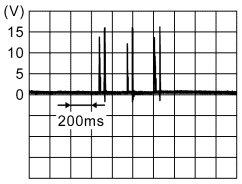
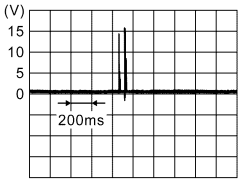
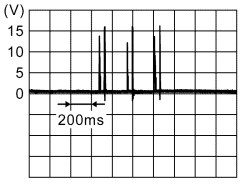
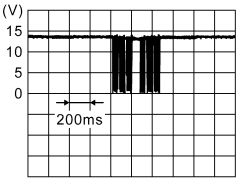
Monitor Item	Condition	Value/Status
SUPPLY VOLTAGE	–	V
Country	–	Remain
CENTRAL LOCKING	–	UNLOCKED
LEFT FRONT DOOR	–	UNLOCKED
LEFT REAR DOOR	–	UNLOCKED
RIGHT FRONT DOOR	–	UNLOCKED
RIGHT REAR DOOR	–	UNLOCKED
TRUNK LID/LIFTATE	–	UNLOCKED
STATUS OF CIRCUIT	–	TERMINAL 15
SUPPLY VOLTAGE VIA CAN	–	V
LH FR DR RTRY TMBLR SW	–	Latch
RH FR DR RTRY TMBLR SW	–	Latch
LH RR DR RTRY TMBLR SW	–	Latch
RH RR DR RTRY TMBLR SW	–	Latch
TRUNK LID EXTRNL OP SW	–	NOT ACT
LH FR KEYLESS DR HANDLE	–	NOT ACT
LH RR KEYLESS DR HANDLE	**NOTE:** The item is indicated, but can not be monitored	NOT ACT
RH FR KEYLESS DR HANDLE	–	NOT ACT
RH RR KEYLESS DR HANDLE	**NOTE:** The item is indicated, but can not be monitored	NOT ACT
REAR SWITCHING MODULE	**NOTE:** The item is indicated, but can not be monitored	Md no at
KEY OR KEY TRACK 1	–	No athnt
KEY OR KEY TRACK 2	–	No athnt
KEY OR KEY TRACK 3	–	No athnt
KEY OR KEY TRACK 4	–	No athnt
KEY OR KEY TRACK 5	–	No athnt
KEY OR KEY TRACK 6	–	No athnt
KEY OR KEY TRACK 7	–	No athnt
KEY OR KEY TRACK 8	–	No athnt

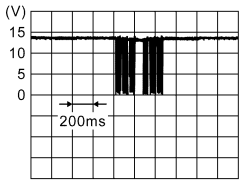
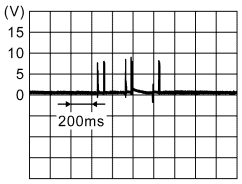
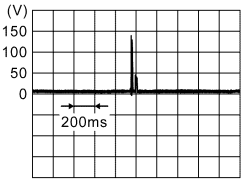
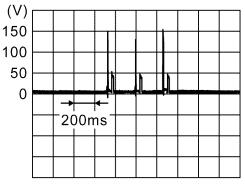
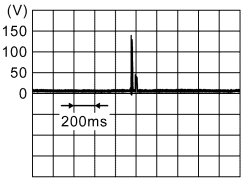
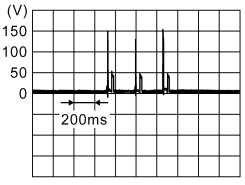
TERMINAL LAYOUT

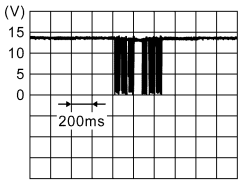
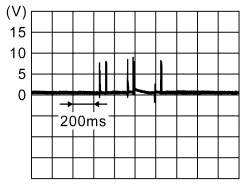
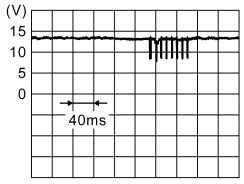
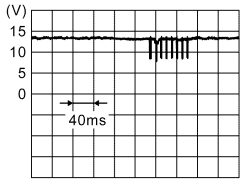


PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition		Voltage (Approx.)
(+)	(–)	Signal name	Input/ Output			
1 (B)	Ground	Ground	—	—		0 V
3 (BR)	Ground	CAN - L	Input/ Output	—		—
5 (L)	Ground	Rear inside key antenna signal 1	Input	Ignition switch OFF and touch front door outside handle grip (once)	When Intelligent Key is in the antenna detection area	 JMKIB5974GB
					When Intelligent Key is not in the antenna detection area	 JMKIB5975GB
6 (Y)	Ground	Outside key antenna (right door) signal 1	Input	Ignition switch OFF and touch right front door outside handle grip (once)	When Intelligent Key is in the antenna detection area	 JMKIB5974GB
					When Intelligent Key is not in the antenna detection area	 JMKIB5975GB

Terminal No. (Wire color)		Description		Condition		Voltage (Approx.)
(+)	(–)	Signal name	Input/ Output			
7 (G)	Ground	Outside key antenna (left door) signal 1	Input	Ignition switch OFF and touch left front door outside handle grip (once)	When Intelligent Key is in the antenna detection area	 JMKIB5974GB
					When Intelligent Key is not in the antenna detection area	 JMKIB5975GB
8 (W)	Ground	Front inside key antenna signal 1	Input	Ignition switch OFF and touch front door outside handle grip (once)	When Intelligent Key is in the antenna detection area	 JMKIB5974GB
					When Intelligent Key is not in the antenna detection area	 JMKIB5975GB
11 (GR)	Ground	Right front Intelligent Key door handle ground	—	—		0 V
12 (B)	Ground	Left front Intelligent Key door handle ground	—	—		0 V
15 (R)	Ground	Battery power supply	Input	—		12 V
17 (R)	Ground	CAN - H	Input/ Output	—		—
18 (B)	Ground	Remote keyless entry receiver communication signal	Output	Ignition switch OFF	Waiting	12 V
					When operating either button on the Intelligent Key	 JMKIB5976GB

Terminal No. (Wire color)		Description		Condition		Voltage (Approx.)
(+)	(–)	Signal name	Input/ Output			
19 (R)	Ground	Rear inside key antenna signal 2	Input	Ignition switch OFF and touch front door outside handle grip (once)	When Intelligent Key is in the antenna detection area	 JMKIB5976GB
					When Intelligent Key is not in the antenna detection area	 JMKIB5978GB
20 (O)	Ground	Outside key antenna (right door) signal 2	Input	Ignition switch OFF and touch right front door outside handle grip (once)	When Intelligent Key is in the antenna detection area	 JMKIB5979GB
					When Intelligent Key is not in the antenna detection area	 JMKIB5980GB
21 (V)	Ground	Outside key antenna (left door) signal 2	Input	Ignition switch OFF and touch left front door outside handle grip (once)	When Intelligent Key is in the antenna detection area	 JMKIB5979GB
					When Intelligent Key is not in the antenna detection area	 JMKIB5980GB

Terminal No. (Wire color)		Description		Condition		Voltage (Approx.)
(+)	(–)	Signal name	Input/ Output			
22 (B)	Ground	Front inside key antenna signal 2	Input	Ignition switch OFF and touch front door outside handle grip (once)	When Intelligent Key is in the antenna detection area	 JMKIB5976GB
					When Intelligent Key is not in the antenna detection area	 JMKIB5978GB
25 (V)	Ground	Right front Intelligent Key door handle	Output	Right front door outside handle grip	Touch (once)	 JMKIB5981GB
					Released	12 V
26 (P)	Ground	Left front Intelligent Key door handle	Output	Left front door outside handle grip	Touch (once)	 JMKIB5981GB
					Released	12 V

Fail-safe

INFOID:0000000013549980

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	Fail-safe	Cancellation
B154E	11	Antenna module	[CIRC SHORT TO GRND]	Inhibit Intelligent Key system and remote keyless entry function	Return to normal status
	12		[CIRC SHORT TO BATTERY]		
	13		[CIRC OPEN]		

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	Fail-safe	Cancellation
B1A4A	11	I-Key sensor (front door handle LH)	[CIRC SHORT TO GRND]	Inhibit left door one touch door lock/unlock function	Return to normal status
	12		[CIRC SHORT TO BATTERY]		
	13		[CIRC OPEN]		
	96		[CMPNENT INTERNAL MLFNCTN]		
B1A4B	11	I-Key sensor (front door handle RH)	[CIRC SHORT TO GRND]	Inhibit right door one touch door lock/unlock function	Return to normal status
	12		[CIRC SHORT TO BATTERY]		
	13		[CIRC OPEN]		
	96		[CMPNENT INTERNAL MLFNCTN]		
B1A4E	11	I-Key antenna left	[CIRC SHORT TO GRND]	Inhibit Intelligent Key system	Return to normal status
	12		[CIRC SHORT TO BATTERY]		
	13		[CIRC OPEN]		
	1D		[CIRC CURRENT OUT OF RANGE]		
	2B		[Short circuit between trigger lines]		
B1A4F	11	I-Key antenna right	[CIRC SHORT TO GRND]	Inhibit Intelligent Key system	Return to normal status
	12		[CIRC SHORT TO BATTERY]		
	13		[CIRC OPEN]		
	1D		[CIRC CURRENT OUT OF RANGE]		
	2B		[Short circuit between trigger lines]		
B1A50	11	I-Key antenna front	[CIRC SHORT TO GRND]	Inhibit Intelligent Key system	Return to normal status
	12		[CIRC SHORT TO BATTERY]		
	13		[CIRC OPEN]		
	1D		[CIRC CURRENT OUT OF RANGE]		
	2B		[Short circuit between trigger lines]		

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	Fail-safe	Cancellation
B1A51	11	I-Key antenna rear	[CIRC SHORT TO GRND]	Inhibit Intelligent Key system	Return to normal status
	12		[CIRC SHORT TO BATTERY]		
	13		[CIRC OPEN]		
	1D		[CIRC CURRENT OUT OF RANGE]		
	2B		[Short circuit between trigger lines]		
B1D02	00	HANDS-FREE ACCESS function	[NO SUBTYPE INFO]	Inhibit one touch door lock unlock function	Remove or retract trailer hitch
B210A	00	Power supply circuit	[NO SUBTYPE INFO]	Inhibit Intelligent Key system	Return to normal status
B210B	00	Power supply circuit	[NO SUBTYPE INFO]	Inhibit Intelligent Key system	Return to normal status
B210D	00	Power supply	[NO SUBTYPE INFO]	Inhibit Intelligent Key system	Return to normal status
B210E	00	Power supply	[NO SUBTYPE INFO]	Inhibit Intelligent Key system	Return to normal status
B2261	55	Intelligent Key unit	[NOT CONFIGURED]	Inhibit Intelligent Key system	Perform configuration work
	96		[CMPNENT INTERNAL MLFNCTN]		Return to normal status
U0019	14	Interior CAN communication	[CIRC SHORT TO GROUND OPEN]	Inhibit Intelligent Key system	Return to normal status
	88		[BUS OFF]		

DTC Index

INFOID:0000000013549981

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	Fail-safe	Reference page
B154E	11	Antenna module	[CIRC SHORT TO GRND]	×	DLK-151
	12		[CIRC SHORT TO BATTERY]		
	13		[CIRC OPEN]		
B1581	00	No-load current mode	[NO SUBTYPE INFO]	—	DLK-154

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	Fail-safe	Reference page
B1A4A	11	I-Key sensor (front door handle LH)	[CIRC SHORT TO GRND]	×	DLK-155
	12		[CIRC SHORT TO BATTERY]		
	13		[CIRC OPEN]		
	96		[CMPNENT INTERNAL MLFNCTN]		
B1A4B	11	I-Key sensor (front door handle RH)	[CIRC SHORT TO GRND]	×	DLK-159
	12		[CIRC SHORT TO BATTERY]		
	13		[CIRC OPEN]		
	96		[CMPNENT INTERNAL MLFNCTN]		
B1A4E	11	I-Key antenna left	[CIRC SHORT TO GRND]	×	DLK-163
	12		[CIRC SHORT TO BATTERY]		
	13		[CIRC OPEN]		
	1D		[CIRC CURRENT OUT OF RANGE]		
	2B		[Short circuit between trigger lines]		
B1A4F	11	I-Key antenna right	[CIRC SHORT TO GRND]	×	DLK-169
	12		[CIRC SHORT TO BATTERY]		
	13		[CIRC OPEN]		
	1D		[CIRC CURRENT OUT OF RANGE]		
	2B		[Short circuit between trigger lines]		
B1A50	11	I-Key antenna front	[CIRC SHORT TO GRND]	×	DLK-175
	12		[CIRC SHORT TO BATTERY]		
	13		[CIRC OPEN]		
	1D		[CIRC CURRENT OUT OF RANGE]		
	2B		[Short circuit between trigger lines]		

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	Fail-safe	Reference page
B1A51	11	I-Key antenna rear	[CIRC SHORT TO GRND]	×	DLK-181
	12		[CIRC SHORT TO BATTERY]		
	13		[CIRC OPEN]		
	1D		[CIRC CURRENT OUT OF RANGE]		
	2B		[Short circuit between trigger lines]		
B1D02	00	HANDS-FREE ACCESS function	[NO SUBTYPE INFO]	×	DLK-187
B210A	00	Power supply circuit	[NO SUBTYPE INFO]	×	DLK-188
B210B	00	Power supply circuit	[NO SUBTYPE INFO]	×	DLK-190
B210D	00	Power supply	[NO SUBTYPE INFO]	×	DLK-192
B210E	00	Power supply	[NO SUBTYPE INFO]	×	DLK-194
B2261	55	Intelligent Key unit	[NOT CONFIURED]	×	DLK-196
	96		[CMPNENT INTERNAL MLFNCTN]		
U0019	14	Interior CAN communication	[CIRC SHORT TO GROUND OPEN]	×	DLK-198
	88		[BUS OFF]		
U0168	87	COMMUNICATION ERROR (LOST)	[MISSING MESSAGE]	×	DLK-199
U0427	81	COMMUNICATION ERROR (INVALID)	[INVALID SERIAL DATA RECEIVED]	—	DLK-201

LEFT FRONT DOOR CONTROL UNIT

Reference Value

INFOID:0000000013549982

VALUES ON THE DIAGNOSIS TOOL

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

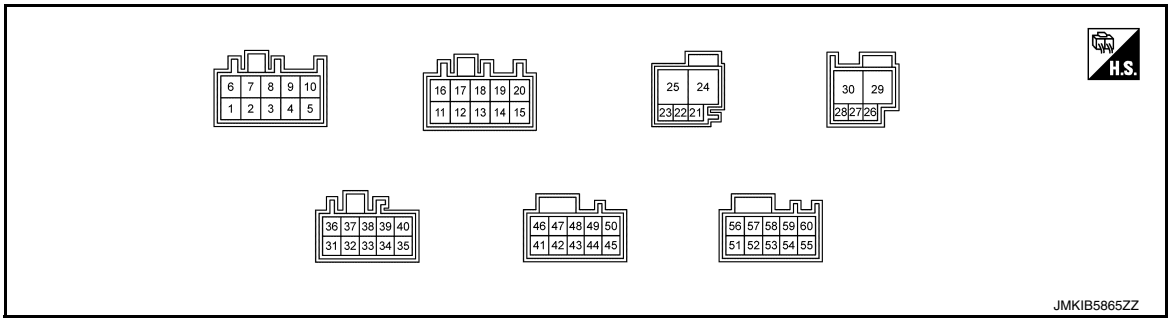
CONSULT MONITOR ITEM

Monitor Item	Condition	Value/Status
OPEN CENTRAL LOCKING	—	NOT ACT
CLOSE CENTRAL LOCKING	—	NOT ACT
RR LID REMOTE RELEASE-SW	—	NOT ACT
RR LID REMOTE CLOSE-SW	—	NOT ACT
MAIN-NOTCH (DR OPEN)	—	No
MICROSWITCH (PRELATCH)	—	NOT ACT
EXIT AND WARNING LAMP	—	No
MIRROR INDICATOR ACTIVE	—	No
DOOR INSIDE HANDLE ACTIVE	—	No
ENTRANCE LAMP ACTIVE	—	No
LIGHT BAR 1	—	No
I/L (BLIND SPOT ASSIST)	—	No
W/L (BLIND SPOT ASSIST)	—	No
LIGHT BAR 2	—	No
SWITCH ILLUMINATION	—	No
CHILD SAFETY LOCK	—	No
LH OUTSIDE MIRROR ADJUST	—	No
RH OUTSIDE MIRROR ADJUST	—	No
BRIGHT VALUE OF SW ILLUMI	—	No
LH FRONT POWER WINDOW	—	NOT ACT
RH FRONT POWER WINDOW	—	NOT ACT
LH REAR POWER WINDOW	—	NOT ACT
RH REAR POWER WINDOW	—	NOT ACT
CHILD SECURITY LOCK	—	NOT ACT
VENT WINDOWS	—	NOT ACT
POS OF POWER WINDOW	—	0 – XXXX
POWER WINDOW	—	No
POWER WINDOW BLOCKAGE	—	No
PW RLY (TOWARD RAISING)	—	No
PW RLY (TOWARD LOWERING)	—	No
PW RLY (SWITCHES)	—	No
POWER WINDOW MOTOR	—	°C
OUTSIDE MIRROR ADJUST	—	NOT ACT
LEFT MIRROR SELECTION	—	NOT ACT
RIGHT MIRROR SELECTION	—	NOT ACT
FOLD IN/OUT OUTSIDE MIR	—	NOT ACT
MIRROR GLASS UP	—	Inactive

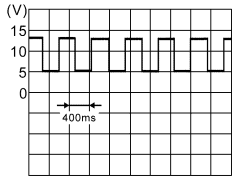
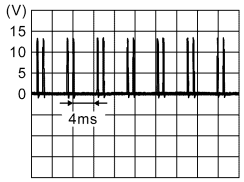
Monitor Item	Condition	Value/Status
MIRROR GLASS DOWN	—	Inactive
MIRROR GLASS TO RIGHT	—	Inactive
MIRROR GLASS TO LEFT	—	Inactive
FOLDING-IN OUTSIDE MIR	—	Inactive
FOLDING-OUT OUTSIDE MIR	—	Inactive
MOVING DEFAULT POSITION	—	NOT ACT
SPEC PTMR HRZTL INC ADJ	—	V
SPEC PTMR VRTCL INC ADJ	—	V
ACTL PTMR HRZTL INC ADJ	—	V
ACTL PTMR VRTCL INC ADJ	—	V
MIRROR HEATER ACTIVE	—	No
SPEC HZL INC ADJ PARK POS	—	0 – XXXX
SPEC VTL INC ADJ PARK POS	—	0 – XXXX
SPEC HZL INC ADJ DFLT POS	—	0 – XXXX
SPEC VTL INC ADJ DFLT POS	—	0 – XXXX
MOVE TO PARKING POSITION	—	NOT ACT
PARKING START POSITION	—	NOT ACT
SEAT FORE/AFT ADJUSTMENT	—	NOT ACT
SEAT HEIGHT ADJUSTMENT	—	NOT ACT
SEAT INCLINATION ADJUST-MENT	—	NOT ACT
BACKREST ADJUSTMENT	—	NOT ACT
HEAD RESTRAINT SETTING	—	NOT ACT
SWITCH 1 FOR MEMORY FUNCTION	—	NOT ACT
SWITCH 2 FOR MEMORY FUNCTION	—	NOT ACT
SWITCH 3 FOR MEMORY FUNCTION	—	NOT ACT
SWITCH M FOR MEMORY FUNCTION	—	NOT ACT
INFRARED SIG VALID KEY	—	No
INFRARED SIG INVALID KEY	—	No
DISRUPT OF INFRARED SIG	—	No
INFRARED SIG CNVN FTURE	—	No
CONVENIENCE FEATURE	—	No
DR DOR INRED RMT CNT RCV	—	No
UNLOCK CENTRAL LOCKING	—	No
LOCK CENTRAL LOCKING	—	No
ACTIVATE ADD DR LOCK	**NOTE:** This item is displayed, but cannot be monitored.	No
DEACTIVATE ADD DR LOCK	**NOTE:** This item is displayed, but cannot be monitored.	No
LIN COMPONENT	—	V
WINDOW LOWERING	—	0 – XXXX
WINDOW RAISING	—	0 – XXXX
INCORRECT VIN	—	0 – XXXX

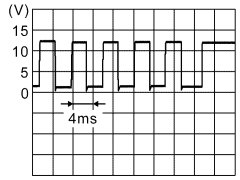
Monitor Item	Condition	Value/Status
HALL SEN OR SIGNAL FAULTY	—	0 – XXXX
RLY STICK IN SWITCH STATE	—	0 – XXXX
CHECKSUM ERROR	—	0 – XXXX
DENML POW WND VIA DIG CM	—	0 – XXXX
UNDRVLT ACT OF POW WND	—	0 – XXXX
WCDG RST ACT OF POW WND	—	0 – XXXX
WIND RAIS FROM UPP STOP	—	0 – XXXX
INITITATE CNTR IN LOW BLCK	—	0 – XXXX
REVERSAL OF POW WINDOW	—	0 – XXXX
CRNT LMT VLE LIN RNG 1	—	0 – XXXX
CRNT LMT VLE LIN RNG 3	—	0 – XXXX
CRNT LMT VLE LIN RNG 2	—	0 – XXXX
CRNT LMT VLE LIN RNG 1 POS	—	0 – XXXX
CRNT LMT VLE LIN RNG 3 POS	—	0 – XXXX
CRNT LMT VLE LIN RNG 2 POS	—	0 – XXXX
STRE LMT VLE IN RNG 1	—	0 – XXXX
STRE LMT VLE IN RNG 3	—	0 – XXXX
STRE LMT VLE IN RNG 2	—	0 – XXXX
STRE LMT VLE IN RNG 1 POS	—	0 – XXXX
STRE LMT VLE IN RNG 3 POS	—	0 – XXXX
STRE LMT VLE IN RNG 2 POS	—	0 – XXXX
SEAT CUSHION LENGTH	—	NOT ACT
FR PASSENGER SEAT ADJUSTMENT	—	NOT ACT
ACT MTR POW CLS DRT CLS	—	No
STATUS LED SWITCH TRAILER HITCH	—	No
ACTUAL VALUE STATUS	—	No

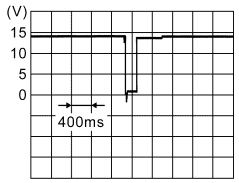
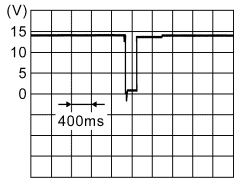
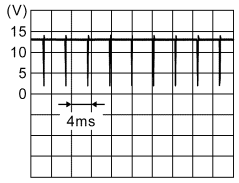
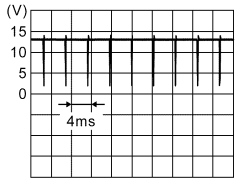
TERMINAL LAYOUT

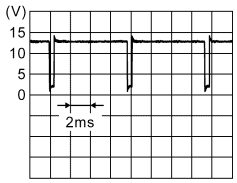
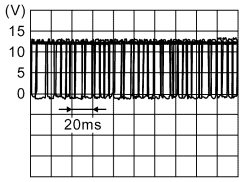
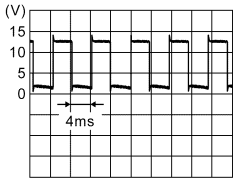
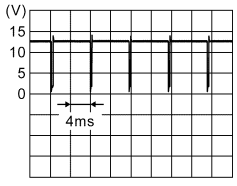


PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition		Voltage (Approx.)
(+)	(–)	Signal name	Input/ Output			
1 (G)	Ground	Automatic dimming mirror power supply	—	—		—
2 (W)	Ground	Automatic dimming mirror ground	—	—		0 V
3 (B)	Ground	Mirror heater ground	—	—		0 V
4 (L)	Ground	Mirror heater power supply	Output	Defogger switch	On	12 V
					Off	0 V
5 (BR)	Ground	BSW indicator ground	—	—		0 V
6 (P)	Ground	Door mirror adjustment motor power supply	Output	Door mirror switch LH	Operated (LH or upper side)	0 V
					Other than above	12 V
7 (L)	Ground	Door mirror vertical inclination motor control	Output	Door mirror switch LH	Operated (LH or lower side)	0 V
					Other than above	12 V
8 (Y)	Ground	Door mirror horizontal inclination motor control	Output	Door mirror switch LH	Operated (RH or lower or OPEN side)	0 V
					Other than above	12 V
9 (G)	Ground	Turn signal lamp power supply	Output	Combination switch	On (turn signal lamp side)	 JMKIB5939GB
					Off	5 V
10 (V)	Ground	Turn signal lamp ground	—	—		0 V
11 (BR)	Ground	Ambient lamp (outside mirror) power supply	Output	—		—
12 (V)	Ground	Ambient lamp (outside mirror) ground	—	—		0 V
13 (L)	Ground	BSW indicator standby	Input	Ignition switch	On	 JMKIB5986GB
					Off	0 V
14 (O)	Ground	Door mirror open	Output	Door mirror LH	Open	0 V
					Other than above	12 V
15 (O)	Ground	Door mirror close	Output	Door mirror LH	Close	0 V
					Other than above	12 V

Terminal No. (Wire color)		Description		Condition		Voltage (Approx.)
(+)	(–)	Signal name	Input/ Output			
16 (L)	Ground	BSW indicator warning	Output	—		—
17 (GR)	Ground	Door mirror horizontal inclination signal	Input	Door mirror LH	Move to stop (LH side)	0.5 V
					Move to stop (RH side)	3 V
18 (BR)	Ground	Door mirror potentiometer ground	—	—		0 V
19 (G)	Ground	Door mirror vertical inclination signal	Input	Door mirror LH	Move to stop (Upper side)	0.5 V
					Move to stop (lower side)	3 V
20 (B)	Ground	Door mirror potentiometer power supply	Output	—		4 V
21 (BR)	Ground	CAN - L	Input/ Output	—		—
22 (R)	Ground	CAN - H	Input/ Output	—		—
23 (L)	Ground	Rotary catch signal	Input	Door LH	Close	12 V
					Open	0 V
24 (BR)	Ground	Ground	—	—		0 V
25 (R)	Ground	Battery power supply	Input	—		12 V
26 (B/V)	Ground	Power window encoder signal	Input	Power window LH	Operate	 JMKIB5940GB
					Other than above	1 V
27 (B/L)	Ground	Power window encoder power supply	Output	—		12 V
28 (B/ BR)	Ground	Power window encoder ground	—	—		0 V
29 (B)	Ground	Power window motor (DOWN)	Input	Power window switch LH	DOWN side pressed	12 V
					Released	0 V
30 (G)	Ground	Power window motor (UP)	Input	Power window switch LH	UP side pressed	12 V
					Released	0 V

Terminal No. (Wire color)		Description		Condition		Voltage (Approx.)
(+)	(–)	Signal name	Input/ Output			
36 (G)	Ground	Door lock actuator LOCK	Output	Front door lock actuator LH	LOCK	 JMKIB5941GB
					Other than above	12 V
37 (G/B)	Ground	Door lock actuator UNLOCK	Output	Front door lock actuator LH	UNLOCK	 JMKIB5941GB
					Other than above	12 V
38 (BR/W)	Ground	Door switch ground	—	—		0 V
39 (BR/P)	Ground	Door switch signal	Input	Door	OPEN	0 V
					CLOSE	12 V
41 (P)	Ground	Power window switch signal (LIN communication)	Input/ Output	Front power window LH	Operating	12 V
					Other than above	 JMKIB5942GB
42 (BR)	Ground	Power window switch ground	—	—		0 V
43 (R)	Ground	Power window switch power supply	Output	—		12 V
44 (L)	Ground	Door lock and unlock switch signal	Input	Door lock	Operating	0 V
					Other than above	12 V
45 (W)	Ground	Door lock and unlock switch ground	—	—		0 V
50 (G)	Ground	Door lock and unlock switch indicator	Output	On		 JMKIB5942GB
				Off		0 V

Terminal No. (Wire color)		Description		Condition		Voltage (Approx.)
(+)	(–)	Signal name	Input/ Output			
51 (W)	Ground	Ambient lamp (front inside handle) power supply	Output	On		 JMKIB5943GB
				Off		0 V
52 (B)	Ground	Ambient lamp (front inside handle) ground	—	—		0 V
53 (P)	Ground	Step lamp ground	—	—		0 V
54 (V)	Ground	Step lamp power supply	Output	Door	Open	12 V
					Close	0 V
56 (G)	Ground	Left seat switch signal (LIN communication)	Input/ Output	—		 JMKIB5987GB
57 (Y)	Ground	Left seat switch ground	—	—		0 V
58 (R)	Ground	Left seat switch power supply	Output	—		12 V
59 (BR)	Ground	Ambient lamp (front door grip) ground	—	—		0 V
60 (G)	Ground	Ambient lamp (front door grip) power supply	Output	Door	LOCK (5 seconds or more)	0 V
					UNLOCK	 JMKIB5944GB
					OPEN	 JMKIB5945GB

Fail-safe

INFOID:0000000013549983

DTC		CONSULT screen items		Fail-safe	Cancellation
		(Trouble diagnosis content)	[Malfunction type]		
B1692	11	Circuit 58d	[CIRC SHORT TO GRND]	Inhibit door lock and unlock switch indicator operation	Return to normal status
B1739	11	Door handle illumination output signal	[CIRC SHORT TO GRND]	Inhibit ambient lamp (front inside handle LH) operation	Return to normal status
B173D	11	Side turn signal lamp output signal	[CIRC SHORT TO GRND]	Inhibit turn signal lamp operation	Return to normal status
	15		[CIRC SHORT TO BATTERY OR OPEN]		
B1755	11	Kicking plate lamp output signal	[CIRC SHORT TO GRND]	Inhibit ambient lamp (outside mirror) LH operation	Return to normal status
	15		[CIRC SHORT TO BATTERY OR OPEN]		
B1759	11	Exit and warning lamp output signal	[CIRC SHORT TO GRND]	Inhibit step lamp LH operation	Return to normal status
	15		[CIRC SHORT TO BATTERY OR OPEN]		
B17DE	11	Light strip output signal	[CIRC SHORT TO GRND]	Inhibit ambient lamp (front door grip LH)	Return to normal status
B18B1	01	Door lock actuator output signal	[ELECTRICAL MALFUNCTION]	Inhibit door lock function	Return to normal status
	13		[CIRC OPEN]		
B18B5	2A	Front power window switch left	[SIGNAL STUCK IN RANGE]	Power window motor cannot be opened or closed by the left front power window switch	Return to normal status
B18B6	2A	Front power window switch right	[SIGNAL STUCK IN RANGE]	Power window motor cannot be opened or closed by the right front power window switch	Return to normal status
B18B7	2A	Power window switch rl	[SIGNAL STUCK IN RANGE]	Power window motor cannot be opened or closed by the left rear power window switch	Return to normal status
B18B8	2A	Power window switch rr	[SIGNAL STUCK IN RANGE]	Power window motor cannot be opened or closed by the right rear power window switch	Return to normal status
B18B9	2A	Power window lock switch	[SIGNAL STUCK IN RANGE]	Inhibit power window lock operation	Return to normal status
B18C9	11	Power window motor	[CIRC SHORT TO GRND]	Left front power window motor stops after 0.5 seconds	Return to normal status
B1936	2A	Door lock and unlock switch	[SIGNAL STUCK IN RANGE]	Inhibit door lock and unlock switch operation	Return to normal status
B1A7B	00	Power window initialization	[NO SUBTYPE INFO]	Inhibit power window auto operation	Return to normal status

DTC		CONSULT screen items		Fail-safe	Cancellation
		(Trouble diagnosis content)	[Malfunction type]		
B1D5E	2A	Seat adjustment switch	[SIGNAL STUCK IN RANGE]	Seat adjustment cannot be activate the left front seat adjustment switch group	Return to normal status
B210A	00	Power supply circuit	NO SUBTYPE INFO	Inhibit left front door control unit controls function	Return to normal status
B210B	00	Power supply circuit	NO SUBTYPE INFO	Inhibit left front door control unit controls function	Return to normal status
B210C	16	Power supply circuit	[CIRC VOLT BELOW THRESHOLD]	Inhibit left front door control unit controls function	Return to normal status
	17		[CIRC VOLT ABOVE THRESHOLD]		
B217E	11	Power supply circuit	[CIRC SHORT TO GRND]	Inhibit power window main switch and left front seat adjustment switch group operation	Return to normal status
B25BA	11	Light strip 2 output signal	[CIRC SHORT TO GRND]	Inhibit ambient lamp (front door grip LH)	Return to normal status
U0215	00	Communication error	[NO SUBTYPE INFO]	Inhibit power window, mirror and seat heater operation	Return to normal status
U1008	00	Communication error (LIN bus 1)	[NO SUBTYPE INFO]	Inhibit power window main switch and left front seat adjustment switch group operation	Return to normal status
U1137	00	Communication error	[NO SUBTYPE INFO]	Only manual function operate normally	Return to normal status

DTC Inspection Priority Chart

INFOID:0000000013549984

If some DTCs are displayed at the same time, perform inspections one by one based on the following priority chart.

Priority	DTC
1	• B173D–11 Side turn signal lamp output signal • B173D–15 Side turn signal lamp output signal • B18B1–13 Door lock actuator output signal • B224F–41 Door control unit • B224F–49 Door control unit • B224F–78 Door control unit • B2808–11 Blind Spot warning indicator • B2808–15 Blind Spot warning indicator • U0215–00 Communication error • U1008–00 Communication error (LIN bus 1) • U1137–00 Communication error
2	• B1755–11 Kicking plate lamp output signal • B1755–15 Kicking plate lamp output signal • B1759–11 Exit and warning lamp output signal • B1759–15 Exit and warning lamp output signal • B17DE–11 Light strip output signal • B18B1–01 Door lock actuator output signal • B18B9–2A Power window lock switch • B18C1–16 Power window motor position sensor 1 • B18C9–11 Power window motor • B1A7B–00 Power window initialization • B1D00–2A Door mirror remote control switch • B1DD0–11 Door mirror defogger output signal • B1DD0–15 Door mirror defogger output signal • B1DFB–01 Power folding motor output signal • B1DFB–07 Power folding motor output signal • B1DFB–13 Power folding motor output signal • B1E1B–01 Door mirror glass motor output signal • B1E1F–2A Door mirror remote control switch • B210A–00 Power supply circuit • B210B–00 Power supply circuit • B210C–16 Power supply circuit • B210C–17 Power supply circuit • B217E–11 Power supply circuit • B25BA–11 Light strip 2 output signal • B280C–11 Blind Spot warning indicator • B280C–15 Blind Spot warning indicator • U0141–87 Communication error • U0168–87 COMMUNICATION ERROR (LOST) • U0203–87 Communication error • U0204–87 Communication error • U0210–87 Communication error
3	• B1692–11 Circuit 58d • B1739–11 Door handle illumination output signal • B18B5–2A Front power window switch left • B18B6–2A Front power window switch right • B18B7–2A Power window switch rl • B18B8–2A Power window switch rr • B1936–2A Door lock and unlock switch • B1D04–2A Door mirror remote control switch • B1D5E–2A Seat adjustment switch • B1DF3–01 Door mirror glass sensor • B1DF7–01 Door mirror glass sensor • B1E1B–15 Door mirror glass motor output signal • B2206–00 Vehicle identification number • B223B–00 Configuration

DTC Index

INFOID:0000000013549985

DTC		CONSULT screen items		Fail-safe	Reference page
		(Trouble diagnosis content)	[Malfunction type]		
B1692	11	Circuit 58d	[CIRC SHORT TO GRND]	×	INL-61
B1739	11	Door handle illumination output signal	[CIRC SHORT TO GRND]	×	INL-64
B173D	11	Side turn signal lamp output signal	[CIRC SHORT TO GRND]	×	EXL-147
	15		[CIRC SHORT TO BATTERY OR OPEN]		
B1755	11	Kicking plate lamp output signal	[CIRC SHORT TO GRND]	×	INL-67
	15		[CIRC SHORT TO BATTERY OR OPEN]		
B1759	11	Exit and warning lamp output signal	[CIRC SHORT TO GRND]	×	INL-72
	15		[CIRC SHORT TO BATTERY OR OPEN]		
B17DE	11	Light strip output signal	[CIRC SHORT TO GRND]	×	INL-77
B18B1	01	Door lock actuator output signal	[ELECTRICAL MALFUNCTION]	×	DLK-103
	13		[CIRC OPEN]		
B18B5	2A	Front power window switch left	[SIGNAL STUCK IN RANGE]	×	PWC-27
B18B6	2A	Front power window switch right	[SIGNAL STUCK IN RANGE]	×	PWC-30
B18B7	2A	Power window switch rl	[SIGNAL STUCK IN RANGE]	×	PWC-33
B18B8	2A	Power window switch rr	[SIGNAL STUCK IN RANGE]	×	PWC-36
B18B9	2A	Power window lock switch	[SIGNAL STUCK IN RANGE]	×	PWC-39
B18C1	16	Power window motor position sensor 1	[CIRC VOLT BELOW THRESHOLD]	×	PWC-42
B18C9	11	Power window motor	[CIRC SHORT TO GRND]	×	PWC-47
B1936	2A	Door lock and unlock switch	[SIGNAL STUCK IN RANGE]	×	DLK-108
B1A7B	00	Power window initialization	[NO SUBTYPE INFO]	×	PWC-54
B1D00	2A	Door mirror remote control switch	[SIGNAL STUCK IN RANGE]	—	MIR-38
B1D04	2A	Door mirror remote control switch	[SIGNAL STUCK IN RANGE]	—	MIR-40
B1D5E	2A	Seat adjustment switch	[SIGNAL STUCK IN RANGE]	×	ADP-88
B1DD0	11	Door mirror defogger output signal	[CIRC SHORT TO GRND]	—	DEF-35
	15		[CIRC SHORT TO BATTERY OR OPEN]		
B1DF3	01	Door mirror glass sensor	[ELECTRICAL MALFUNCTION]	—	MIR-42
B1DF7	01	Door mirror glass sensor	[ELECTRICAL MALFUNCTION]	—	MIR-47
B1DFB	01	Power folding motor output signal	[ELECTRICAL MALFUNCTION]	—	MIR-52
	07		[MECHANICAL FAILURES]		
	13		[CIRC OPEN]		

DTC		CONSULT screen items		Fail-safe	Reference page
		(Trouble diagnosis content)	[Malfunction type]		
B1E1B	01	Door mirror glass motor output signal	[ELECTRICAL MALFUNCTION]	—	MIR-57
	15		[CIRC SHORT TO BATTERY OR OPEN]		
B1E1F	2A	Door mirror remote control switch	[SIGNAL STUCK IN RANGE]	—	MIR-61
B210A	00	Power supply circuit	[NO SUBTYPE INFO]	×	DLK-112
B210B	00	Power supply circuit	[NO SUBTYPE INFO]	×	DLK-115
B210C	16	Power supply circuit	[CIRC VOLT BELOW THRESHOLD]	×	DLK-118
	17		[CIRC VOLT ABOVE THRESHOLD]		
B217E	11	Power supply circuit	[CIRC SHORT TO GRND]	×	DLK-123
B2206	00	Vehicle identification number	[NO SUBTYPE INFO]	—	DLK-127
B223B	00	Configuration	[NO SUBTYPE INFO]	—	DLK-129
B224F	41	Door control unit	[GENERAL CHECKSUM FAILURE]	—	DLK-131
	49		[INTERNAL ELECTRONIC FAILURE]		
	78		[ALIGNMENT OR ADJUSTMENT INCORRECT]		
B25BA	11	Light strip 2 output signal	[CIRC SHORT TO GRND]	×	INL-80
B2808	11	Blind Spot warning indicator	[CIRC SHORT TO GRND]	—	DAS-96
	15		[CIRC SHORT TO BATTERY OR OPEN]		
B280C	11	Blind Spot warning indicator	[CIRC SHORT TO GRND]	—	DAS-100
	15		[CIRC SHORT TO BATTERY OR OPEN]		
U0141	87	Communication error	[MISSING MESSAGE]	—	DLK-133
U0168	87	COMMUNICATION ERROR (LOST)	[MISSING MESSAGE]	—	DLK-136
U0203	87	Communication error	[MISSING MESSAGE]	—	DLK-139
U0204	87	Communication error	[MISSING MESSAGE]	—	DLK-141
U0210	87	Communication error	[MISSING MESSAGE]	—	ADP-110
U0215	00	Communication error	[NO SUBTYPE INFO]	×	DLK-143
U1008	00	Communication error (LIN bus 1)	[NO SUBTYPE INFO]	×	DLK-143
U1137	00	Communication error	[NO SUBTYPE INFO]	×	ADP-90

RIGHT FRONT DOOR CONTROL UNIT

Reference Value

INFOID:0000000013549990

VALUES ON THE DIAGNOSIS TOOL

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

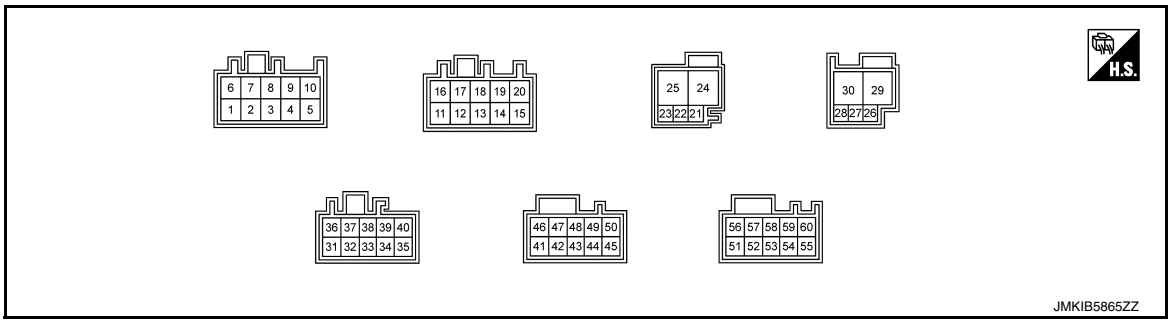
CONSULT MONITOR ITEM

Monitor Item	Condition	Value/Status
OPEN CENTRAL LOCKING	—	NOT ACT
CLOSE CENTRAL LOCKING	—	NOT ACT
RR LID REMOTE RELEASE-SW	—	NOT ACT
RR LID REMOTE CLOSE-SW	—	NOT ACT
MAIN-NOTCH (DR OPEN)	—	No
MICROSWITCH (PRELATCH)	—	NOT ACT
EXIT AND WARNING LAMP	—	No
MIRROR INDICATOR ACTIVE	—	No
DOOR INSIDE HANDLE ACTIVE	—	No
ENTRANCE LAMP ACTIVE	—	No
LIGHT BAR 1	—	No
I/L (BLIND SPOT ASSIST)	—	No
W/L (BLIND SPOT ASSIST)	—	No
LIGHT BAR 2	—	No
SWITCH ILLUMINATION	—	No
CHILD SAFETY LOCK	—	No
LH OUTSIDE MIRROR ADJUST	—	No
RH OUTSIDE MIRROR ADJUST	—	No
BRIGHT VALUE OF SW ILLUMI	—	No
LH FRONT POWER WINDOW	—	NOT ACT
RH FRONT POWER WINDOW	—	NOT ACT
LH REAR POWER WINDOW	—	NOT ACT
RH REAR POWER WINDOW	—	NOT ACT
CHILD SECURITY LOCK	—	NOT ACT
VENT WINDOWS	—	NOT ACT
POS OF POWER WINDOW	—	0 – XXXX
POWER WINDOW	—	No
POWER WINDOW BLOCKAGE	—	No
PW RLY (TOWARD RAISING)	—	No
PW RLY (TOWARD LOWERING)	—	No
PW RLY (SWITCHES)	—	No
POWER WINDOW MOTOR	—	°C
OUTSIDE MIRROR ADJUST	—	NOT ACT
LEFT MIRROR SELECTION	—	NOT ACT
RIGHT MIRROR SELECTION	—	NOT ACT
FOLD IN/OUT OUTSIDE MIR	—	NOT ACT
MIRROR GLASS UP	—	Inactive

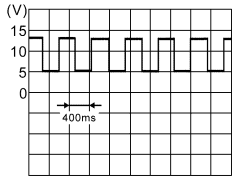
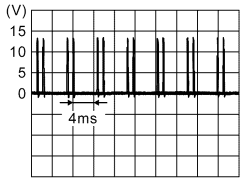
Monitor Item	Condition	Value/Status
MIRROR GLASS DOWN	—	Inactive
MIRROR GLASS TO RIGHT	—	Inactive
MIRROR GLASS TO LEFT	—	Inactive
FOLDING-IN OUTSIDE MIR	—	Inactive
FOLDING-OUT OUTSIDE MIR	—	Inactive
MOVING DEFAULT POSITION	—	NOT ACT
SPEC PTMR HRZTL INC ADJ	—	V
SPEC PTMR VRTCL INC ADJ	—	V
ACTL PTMR HRZTL INC ADJ	—	V
ACTL PTMR VRTCL INC ADJ	—	V
MIRROR HEATER ACTIVE	—	No
SPEC HZL INC ADJ PARK POS	—	0 – XXXX
SPEC VTL INC ADJ PARK POS	—	0 – XXXX
SPEC HZL INC ADJ DFLT POS	—	0 – XXXX
SPEC VTL INC ADJ DFLT POS	—	0 – XXXX
MOVE TO PARKING POSITION	—	NOT ACT
PARKING START POSITION	—	NOT ACT
SEAT FORE/AFT ADJUSTMENT	—	NOT ACT
SEAT HEIGHT ADJUSTMENT	—	NOT ACT
SEAT INCLINATION ADJUST-MENT	—	NOT ACT
BACKREST ADJUSTMENT	—	NOT ACT
HEAD RESTRAINT SETTING	—	NOT ACT
SWITCH 1 FOR MEMORY FUNCTION	—	NOT ACT
SWITCH 2 FOR MEMORY FUNCTION	—	NOT ACT
SWITCH 3 FOR MEMORY FUNCTION	—	NOT ACT
SWITCH M FOR MEMORY FUNCTION	—	NOT ACT
INFRARED SIG VALID KEY	—	No
INFRARED SIG INVALID KEY	—	No
DISRUPT OF INFRARED SIG	—	No
INFRARED SIG CNVN FTURE	—	No
CONVENIENCE FEATURE	—	No
DR DOR INRED RMT CNT RCV	—	No
UNLOCK CENTRAL LOCKING	—	No
LOCK CENTRAL LOCKING	—	No
ACTIVATE ADD DR LOCK	**NOTE:** This item is displayed, but cannot be monitored.	No
DEACTIVATE ADD DR LOCK	**NOTE:** This item is displayed, but cannot be monitored.	No
LIN COMPONENT	—	V
WINDOW LOWERING	—	0 – XXXX
WINDOW RAISING	—	0 – XXXX
INCORRECT VIN	—	0 – XXXX

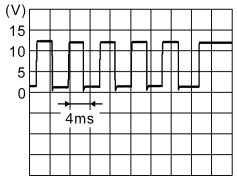
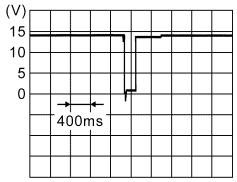
Monitor Item	Condition	Value/Status
HALL SEN OR SIGNAL FAULTY	—	0 – XXXX
RLY STICK IN SWITCH STATE	—	0 – XXXX
CHECKSUM ERROR	—	0 – XXXX
DENML POW WND VIA DIG CM	—	0 – XXXX
UNDRVLT ACT OF POW WND	—	0 – XXXX
WCDG RST ACT OF POW WND	—	0 – XXXX
WIND RAIS FROM UPP STOP	—	0 – XXXX
INITITATE CNTR IN LOW BLCK	—	0 – XXXX
REVERSAL OF POW WINDOW	—	0 – XXXX
CRNT LMT VLE LIN RNG 1	—	0 – XXXX
CRNT LMT VLE LIN RNG 3	—	0 – XXXX
CRNT LMT VLE LIN RNG 2	—	0 – XXXX
CRNT LMT VLE LIN RNG 1 POS	—	0 – XXXX
CRNT LMT VLE LIN RNG 3 POS	—	0 – XXXX
CRNT LMT VLE LIN RNG 2 POS	—	0 – XXXX
STRE LMT VLE IN RNG 1	—	0 – XXXX
STRE LMT VLE IN RNG 3	—	0 – XXXX
STRE LMT VLE IN RNG 2	—	0 – XXXX
STRE LMT VLE IN RNG 1 POS	—	0 – XXXX
STRE LMT VLE IN RNG 3 POS	—	0 – XXXX
STRE LMT VLE IN RNG 2 POS	—	0 – XXXX
RIGHT SEAT CUSHION LENGTH SW	—	NOT ACT
FR PASSENGER SEAT ADJUSTMENT	—	NOT ACT
ACT MTR POW CLS DRT CLS	—	No
STATUS LED SWITCH TRAILER HITCH	—	No
ACTUAL VALUE STATUS	—	No

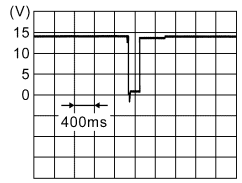
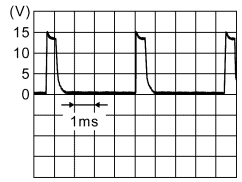
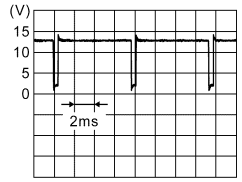
TERMINAL LAYOUT

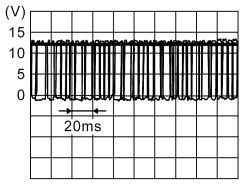
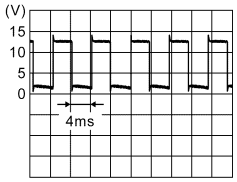
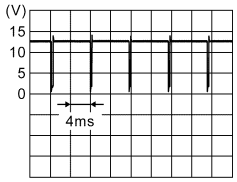


PHYSICAL VALUES

Terminal No. (Wire color)		Description		Condition		Voltage (Approx.)
(+)	(–)	Signal name	Input/ Output			
1 (GR)	Ground	Automatic dimming mirror power supply	—	—		—
2 (Y)	Ground	Automatic dimming mirror ground	—	—		0 V
3 (G)	Ground	Mirror heater ground	—	—		0 V
4 (L)	Ground	Mirror heater power supply	Output	Defogger switch	On	12 V
					Off	0 V
5 (BR)	Ground	BSW indicator ground	—	—		0 V
6 (V)	Ground	Door mirror adjustment motor power supply	Output	Door mirror switch RH	Operated (RH or lower side)	0 V
					Other than above	12 V
7 (P)	Ground	Door mirror vertical inclination motor control	Output	Door mirror switch RH	Operated (LH or upper side)	0 V
					Other than above	12 V
8 (W)	Ground	Door mirror horizontal inclination motor control	Output	Door mirror switch RH	Operated (LH or lower)	0 V
					Other than above	12 V
9 (GR)	Ground	Turn signal lamp power supply	Output	Combination switch	On (turn signal lamp side)	 JMKIB5939GB
					Off	5 V
10 (O)	Ground	Turn signal lamp ground	—	—		0 V
11 (L)	Ground	Ambient lamp (outside mirror) power supply	Output	—		—
12 (P)	Ground	Ambient lamp (outside mirror) ground	—	—		0 V
13 (L)	Ground	BSW indicator standby	Input	Ignition switch	On	 JMKIB5986GB
					Off	0 V
14 (B)	Ground	Door mirror close	Output	Door mirror RH	Open	0 V
					Other than above	12 V
15 (B)	Ground	Door mirror open	Output	Door mirror RH	Close	0 V
					Other than above	12 V
16 (L)	Ground	BSW indicator warning	Output	—		—

Terminal No. (Wire color)		Description		Condition		Voltage (Approx.)
(+)	(–)	Signal name	Input/ Output			
17 (O)	Ground	Door mirror horizontal inclination signal	Input	Door mirror RH	Move to stop (LH side)	0.5 V
					Move to stop (RH side)	3 V
18 (O)	Ground	Door mirror potentiometer ground	—	—		0 V
19 (BR)	Ground	Door mirror vertical inclination signal	Input	Door mirror RH	Move to stop (Upper side)	0.5 V
					Move to stop (lower side)	3 V
20 (Y)	Ground	Door mirror potentiometer power supply	Output	—		4 V
21 (BR)	Ground	CAN - L	Input/ Output	—		—
22 (R)	Ground	CAN - H	Input/ Output	—		—
24 (BR)	Ground	Ground	—	—		0 V
25 (R)	Ground	Battery power supply	Input	—		12 V
26 (B/V)	Ground	Power window encoder signal	Input	Power window RH	Operate	 JMKIB5940GB
					Other than above	1 V
27 (B/L)	Ground	Power window encoder power supply	Output	—		12 V
28 (B/ BR)	Ground	Power window encoder ground	—	—		0 V
29 (B)	Ground	Power window motor (DOWN)	Input	Power window switch RH	DOWN side pressed	12 V
					Released	0 V
30 (G)	Ground	Power window motor (UP)	Input	Power window switch RH	UP side pressed	12 V
					Released	0 V
36 (G)	Ground	Door lock actuator LOCK	Output	Front door lock actuator RH	LOCK	 JMKIB5941GB
					Other than above	12 V

Terminal No. (Wire color)		Description		Condition		Voltage (Approx.)
(+)	(–)	Signal name	Input/ Output			
37 (G/B)	Ground	Door lock actuator UNLOCK	Output	Front door lock actuator RH	UNLOCK	 JMKIB5941GB
					Other than above	12 V
38 (BR/W)	Ground	Unlock sensor ground	—	—		0 V
39 (BR/P)	Ground	Unlock sensor signal	Input	Door	OPEN	0 V
					CLOSE	12 V
46 (V)	Ground	Power window switch DOWN signal	Input/ Output	Power window switch RH	Pressed (DOWN)	4 V
					Released	12 V
47 (BR)	Ground	Power window switch ground	—	—		0 V
48 (O)	Ground	Power window switch indicator	Output	Door locked (5 seconds or more)		0 V
				Other than above		 JMKIB5948GB
49 (G)	Ground	Power window switch UP signal	Input/ Output	Power window switch RH	Pressed (UP)	4 V
					Released	12 V
51 (W)	Ground	Ambient lamp (front inside handle) power supply	Output	On		 JMKIB5943GB
				Off		0 V
52 (B)	Ground	Ambient lamp (front inside handle) ground	—	—		0 V
53 (P)	Ground	Step lamp ground	—	—		0 V
54 (V)	Ground	Step lamp power supply	Output	Door	Open	12 V
					Close	0 V

Terminal No. (Wire color)		Description		Condition		Voltage (Approx.)
(+)	(–)	Signal name	Input/ Output			
56 (G)	Ground	Left seat switch signal (LIN communication)	Input/ Output	—		 JMKIB5987GB
57 (Y)	Ground	Left seat switch ground	—	—		0 V
58 (R)	Ground	Left seat switch power supply	Output	—		12 V
59 (BR)	Ground	Ambient lamp (front door grip) ground	—	—		0 V
60 (G)	Ground	Ambient lamp (front door grip) power supply	Output	Door	LOCK (5 seconds or more)	0 V
					UNLOCK	 JMKIB5944GB
					OPEN	 JMKIB5945GB

Fail-safe

INFOID:0000000013549991

DTC		CONSULT screen items		Fail-safe	Cancellation
		(Trouble diagnosis content)	[Malfunction type]		
B1692	11	Circuit 58d	[CIRC SHORT TO GRND]	Inhibit front power window switch (passenger side) indicator operation	Return to normal status
B1739	11	Door handle illumination output signal	[CIRC SHORT TO GRND]	Inhibit ambient lamp (front inside handle RH) operation	Return to normal status
B173D	11	Side turn signal lamp output signal	[CIRC SHORT TO GRND]	Inhibit turn signal lamp operation	Return to normal status
	15		[CIRC SHORT TO BATTERY OR OPEN]		

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	Fail-safe	Cancellation
B1755	11	Kicking plate lamp output signal	[CIRC SHORT TO GRND]	Inhibit ambient lamp (outside mirror) RH operation	Return to normal status
	15		[CIRC SHORT TO BATTERY OR OPEN]		
B1759	11	Exit and warning lamp output signal	[CIRC SHORT TO GRND]	Inhibit step lamp RH operation	Return to normal status
	15		[CIRC SHORT TO BATTERY OR OPEN]		
B17DE	11	Light strip output signal	[CIRC SHORT TO GRND]	Inhibit ambient lamp (front door grip RH)	Return to normal status
B18B1	01	Door lock actuator output signal	[ELECTRICAL MALFUNCTION]	Inhibit door lock function	Return to normal status
	13		[CIRC OPEN]		
B18C9	11	Power window motor	[CIRC SHORT TO GRND]	Right front power window motor stops after 0.5 seconds	Return to normal status
B18E6	2A	Power window switch	[SIGNAL STUCK IN RANGE]	Power window motor cannot be opened or closed by the front power window switch (passenger side)	Return to normal status
B1A7B	00	Power window initialization	[NO SUBTYPE INFO]	Inhibit power window auto operation	Return to normal status
B1D5E	2A	Seat adjustment switch	[SIGNAL STUCK IN RANGE]	Seat adjustment cannot be activate the left front seat adjustment switch group	Return to normal status
B210A	00	Power supply circuit	NO SUBTYPE INFO	Inhibit right front door control unit controls function	Return to normal status
B210B	00	Power supply circuit	NO SUBTYPE INFO	Inhibit right front door control unit controls function	Return to normal status
B210C	16	Power supply circuit	[CIRC VOLT BELOW THRESHOLD]	Inhibit right front door control unit controls function	Return to normal status
	17		[CIRC VOLT ABOVE THRESHOLD]		
B217E	11	Power supply circuit	[CIRC SHORT TO GRND]	Inhibit right front seat adjustment switch group operation	Return to normal status
B25BA	11	Light strip 2 output signal	[CIRC SHORT TO GRND]	Inhibit ambient lamp (front door grip RH)	Return to normal status
U0215	00	Communication error	[NO SUBTYPE INFO]	Inhibit mirror and seat heater operation	Return to normal status
U1008	00	Communication error (LIN bus 1)	[NO SUBTYPE INFO]	Inhibit right front seat adjustment switch group operation	Return to normal status
U1137	00	Communication error	[NO SUBTYPE INFO]	Only manual function operate normally	Return to normal status

DTC Inspection Priority Chart

INFOID:0000000013549992

If some DTCs are displayed at the same time, perform inspections one by one based on the following priority chart.

Priority	DTC
1	• B173D–11 Side turn signal lamp output signal • B173D–15 Side turn signal lamp output signal • B18B1–13 Door lock actuator output signal • B224F–41 Door control unit • B224F–49 Door control unit • B224F–78 Door control unit • B2808–11 Blind Spot warning indicator • B2808–15 Blind Spot warning indicator • U0215–00 Communication error • U1008–00 Communication error (LIN bus 1) • U1137–00 Communication error
2	• B1755–11 Kicking plate lamp output signal • B1755–15 Kicking plate lamp output signal • B1759–11 Exit and warning lamp output signal • B1759–15 Exit and warning lamp output signal • B17DE–11 Light strip output signal • B18B1–01 Door lock actuator output signal • B18C1–16 Power window motor position sensor 1 • B18C9–11 Power window motor • B1A7B–00 Power window initialization • B1DD0–11 Door mirror defogger output signal • B1DD0–15 Door mirror defogger output signal • B1DFB–01 Power folding motor output signal • B1DFB–07 Power folding motor output signal • B1DFB–13 Power folding motor output signal • B1E1B–01 Door mirror glass motor output signal • B210A–00 Power supply circuit • B210B–00 Power supply circuit • B210C–16 Power supply circuit • B210C–17 Power supply circuit • B217E–11 Power supply circuit • B25BA–11 Light strip 2 output signal • B280C–11 Blind Spot warning indicator • B280C–15 Blind Spot warning indicator • U0141–87 Communication error • U0168–87 COMMUNICATION ERROR (LOST) • U0203–87 Communication error • U0204–87 Communication error • U0210–87 Communication error
3	• B1692–11 Circuit 58d • B1739–11 Door handle illumination output signal • B18E6–2A Power window switch • B1D5E–2A Seat adjustment switch • B1DF3–01 Door mirror glass sensor • B1DF7–01 Door mirror glass sensor • B1E1B–15 Door mirror glass motor output signal • B2206–00 Vehicle identification number • B223B–00 Configuration

DTC Index

INFOID:0000000013549993

DTC		CONSULT screen items		Fail-safe	DTC
		(Trouble diagnosis content)	[Malfunction type]		
B1692	11	Circuit 58d	[CIRC SHORT TO GRND]	×	INL-62
B1739	11	Door handle illumination output signal	[CIRC SHORT TO GRND]	×	INL-65
B173D	11	Side turn signal lamp output signal	[CIRC SHORT TO GRND]	×	EXL-148
	15		[CIRC SHORT TO BATTERY OR OPEN]		

DTC		CONSULT screen items		Fail-safe	DTC
		(Trouble diagnosis content)	[Malfunction type]		
B1755	11	Kicking plate lamp output signal	[CIRC SHORT TO GRND]	×	INL-69
	15		[CIRC SHORT TO BATTERY OR OPEN]		
B1759	11	Exit and warning lamp output signal	[CIRC SHORT TO GRND]	×	INL-74
	15		[CIRC SHORT TO BATTERY OR OPEN]		
B17DE	11	Light strip output signal	[CIRC SHORT TO GRND]	×	INL-78
B18B1	01	Door lock actuator output signal	[ELECTRICAL MALFUNCTION]	×	DLK-105
	13		[CIRC OPEN]		
B18C1	16	Power window motor position sensor 1	[CIRC VOLT BELOW THRESHOLD]	×	PWC-44
B18C9	11	Power window motor	[CIRC SHORT TO GRND]	×	PWC-48
B18E6	2A	Power window switch	[SIGNAL STUCK IN RANGE]	×	PWC-52
B1A7B	00	Power window initialization	[NO SUBTYPE INFO]	×	PWC-54
B1D5E	2A	Seat adjustment switch	[SIGNAL STUCK IN RANGE]	×	ADP-88
B1DD0	11	Door mirror defogger output signal	[CIRC SHORT TO GRND]	—	DEF-38
	15		[CIRC SHORT TO BATTERY OR OPEN]		
B1DF3	01	Door mirror glass sensor	[ELECTRICAL MALFUNCTION]	—	MIR-44
B1DF7	01	Door mirror glass sensor	[ELECTRICAL MALFUNCTION]	—	MIR-49
B1DFB	01	Power folding motor output signal	[ELECTRICAL MALFUNCTION]	—	MIR-54
	07		[MECHANICAL FAILURES]		
	13		[CIRC OPEN]		
B1E1B	01	Door mirror glass motor output signal	[ELECTRICAL MALFUNCTION]	—	MIR-59
	15	Door mirror glass motor output signal	[CIRC SHORT TO BATTERY OR OPEN]		
B210A	00	Power supply circuit	[NO SUBTYPE INFO]	×	DLK-113
B210B	00	Power supply circuit	[NO SUBTYPE INFO]	×	DLK-116
B210C	16	Power supply circuit	[CIRC VOLT BELOW THRESHOLD]	×	DLK-120
	17		[CIRC VOLT ABOVE THRESHOLD]		
B217E	11	Power supply circuit	[CIRC SHORT TO GRND]	×	DLK-124
B2206	00	Vehicle identification number	[NO SUBTYPE INFO]	—	DLK-127
B223B	00	Configuration	[NO SUBTYPE INFO]	—	DLK-129
B224F	41	Door control unit	[GENERAL CHECKSUM FAILURE]	—	DLK-132
	49		[INTERNAL ELECTRONIC FAILURE]		
	78		[ALIGNMENT OR ADJUSTMENT INCORRECT]		
B25BA	11	Light strip 2 output signal	[CIRC SHORT TO GRND]	×	INL-81

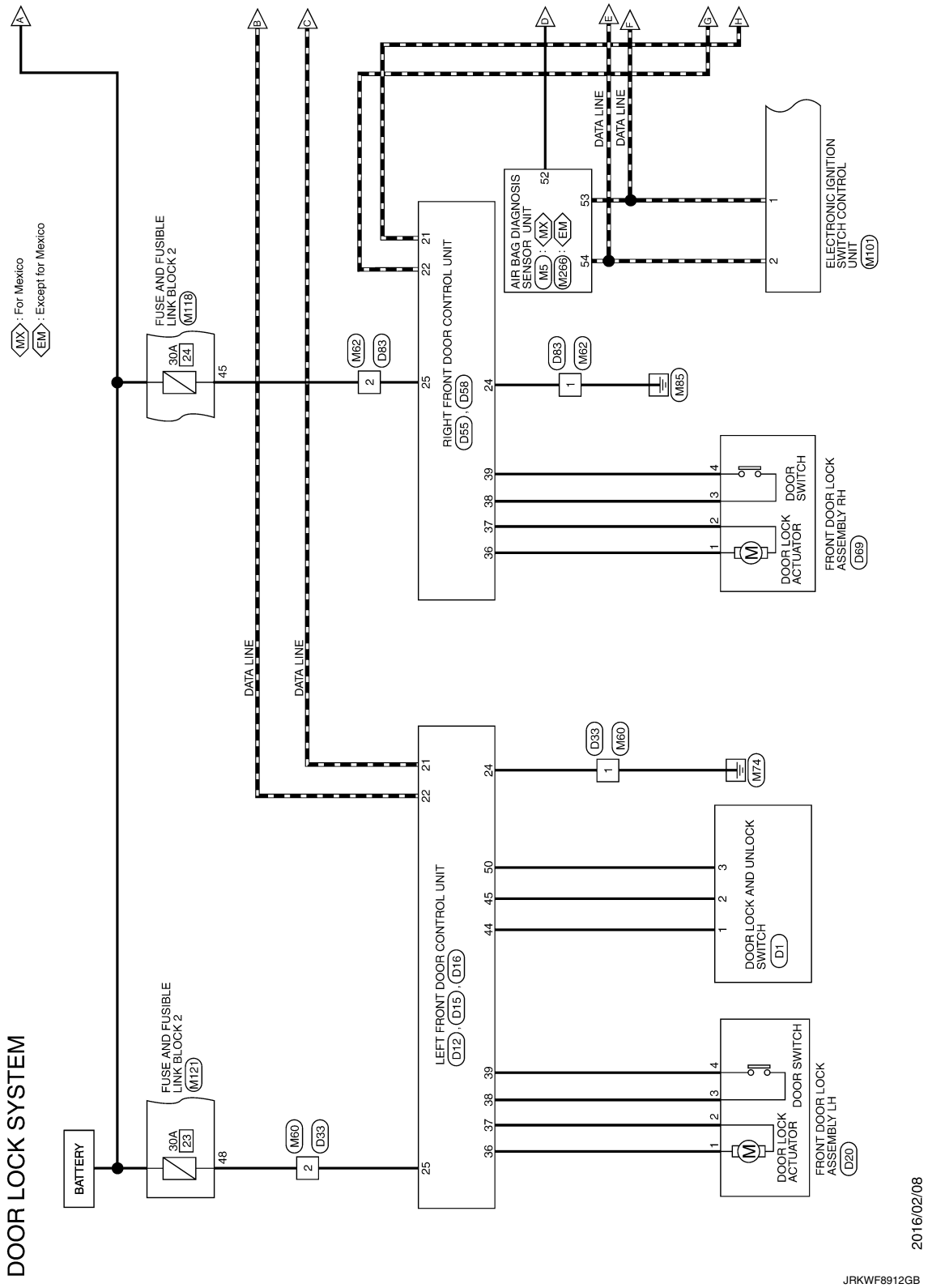
DTC		CONSULT screen items		Fail-safe	DTC
		(Trouble diagnosis content)	[Malfunction type]		
B2808	11	Blind Spot warning indicator	[CIRC SHORT TO GRND]	—	DAS-97
	15		[CIRC SHORT TO BATTERY OR OPEN]		
B280C	11	Blind Spot warning indicator	[CIRC SHORT TO GRND]	—	DAS-101
	15		[CIRC SHORT TO BATTERY OR OPEN]		
U0141	87	Communication error	[MISSING MESSAGE]	—	DLK-134
U0168	87	COMMUNICATION ERROR (LOST)	[MISSING MESSAGE]	—	DLK-137
U0203	87	Communication error	[MISSING MESSAGE]	—	DLK-139
U0204	87	Communication error	[MISSING MESSAGE]	—	DLK-141
U0210	87	Communication error	[MISSING MESSAGE]	—	ADP-111
U0215	00	Communication error	[NO SUBTYPE INFO]	×	DLK-145
U1008	00	Communication error (LIN bus 1)	[NO SUBTYPE INFO]	×	DLK-148
U1137	00	Communication error	[NO SUBTYPE INFO]	×	ADP-91

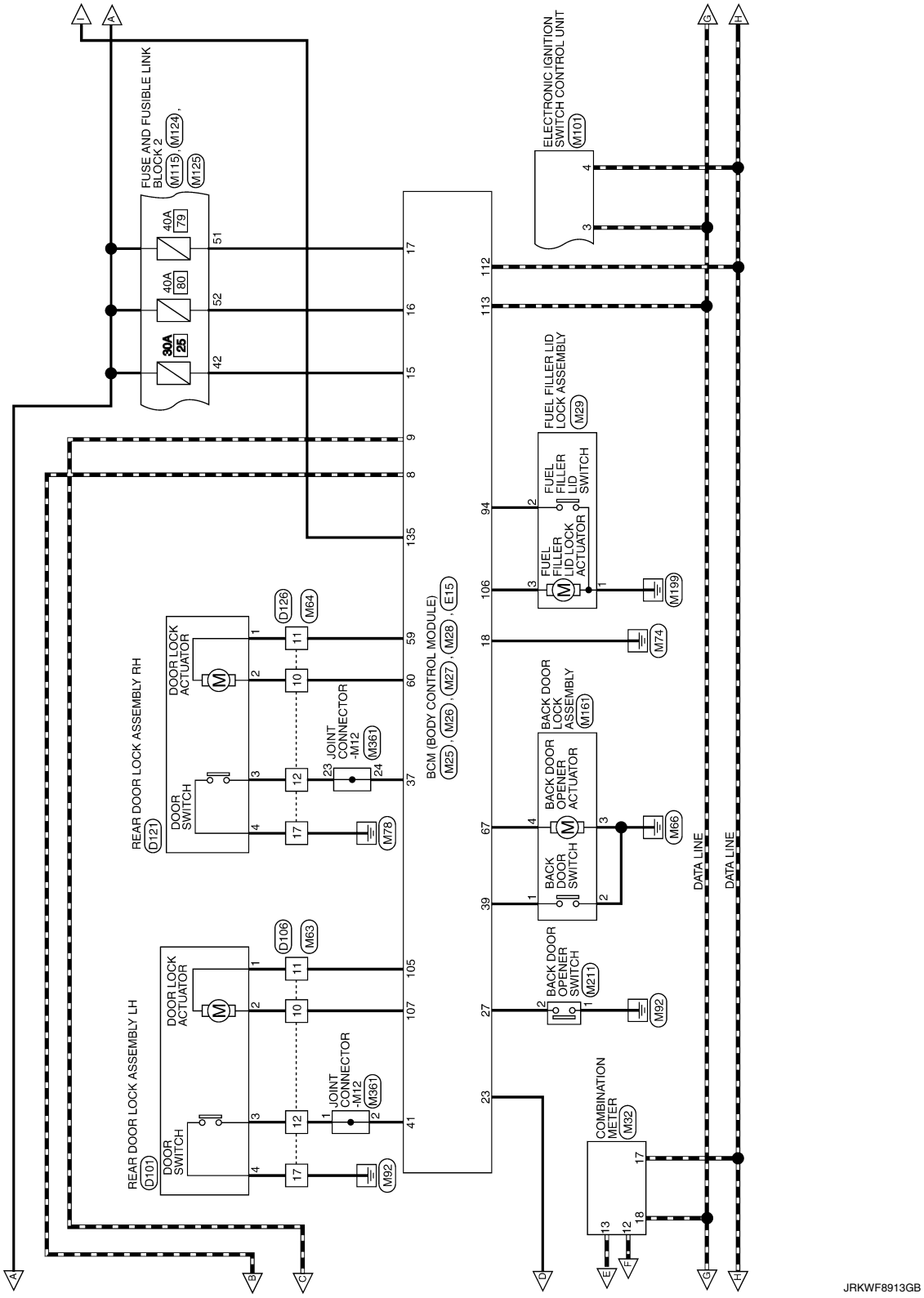
WIRING DIAGRAM

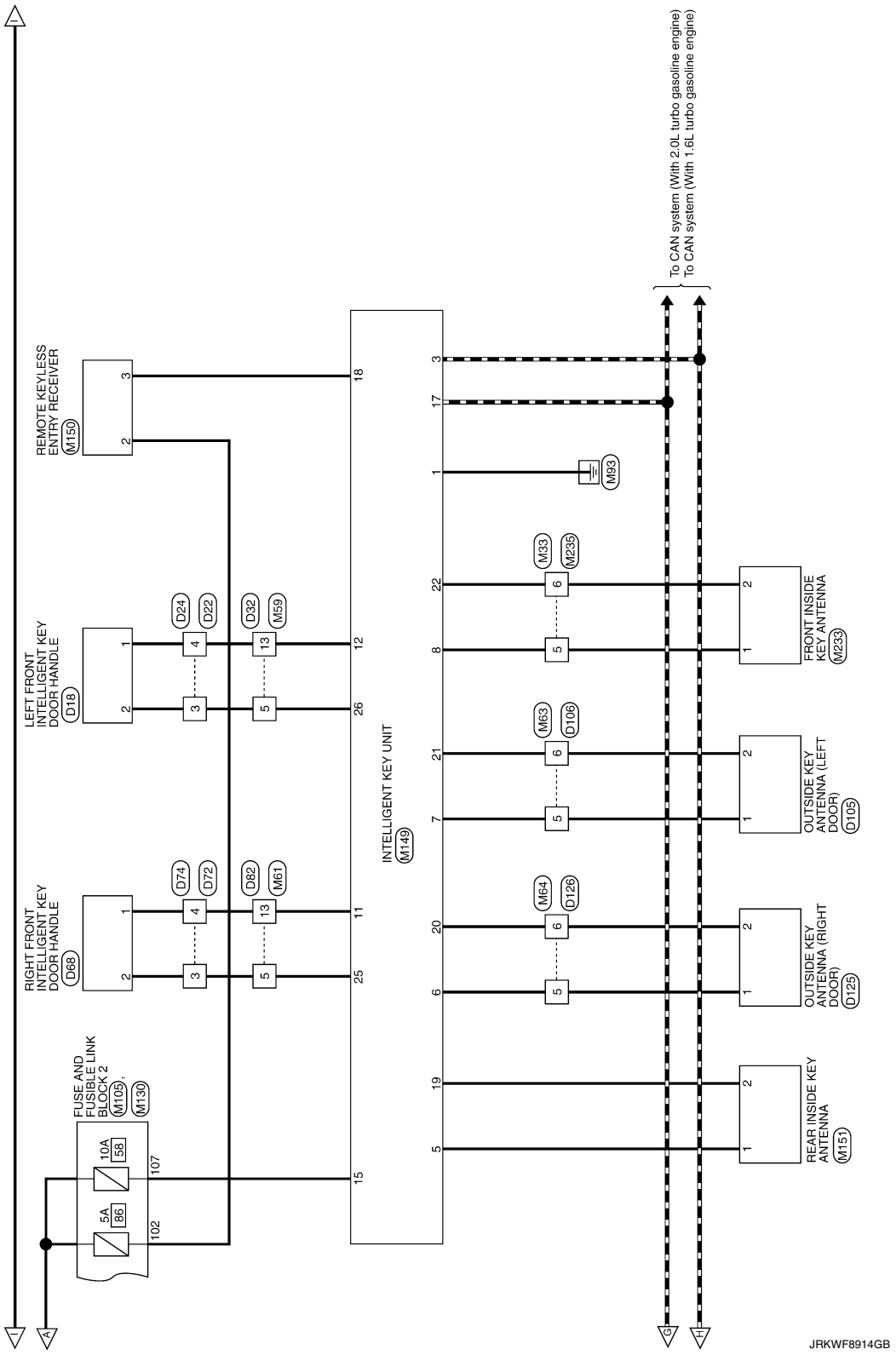
DOOR & LOCK SYSTEM

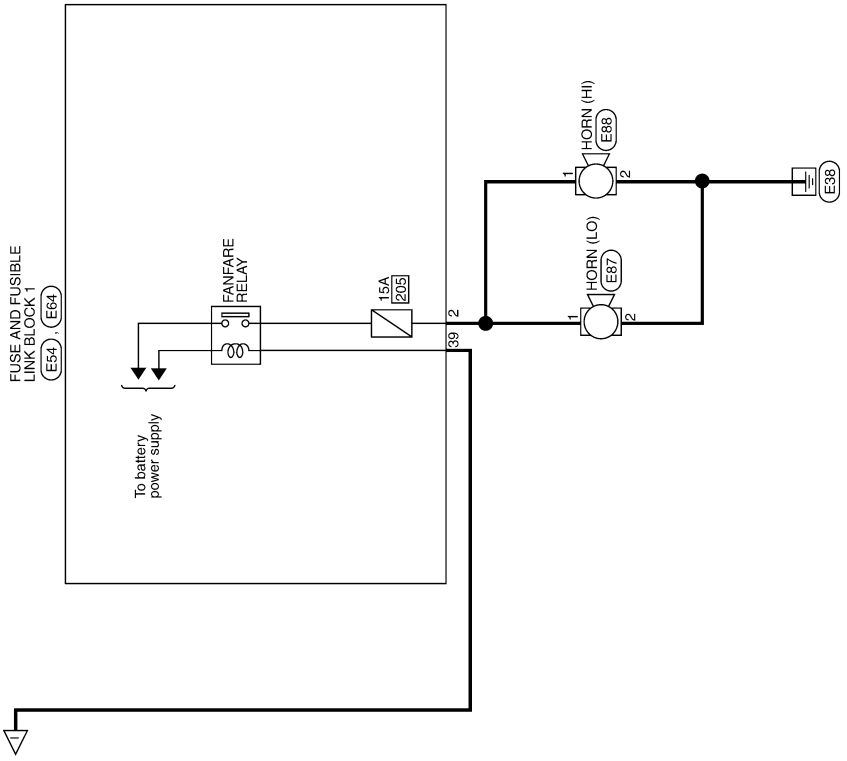
Wiring Diagram

INFOID:0000000013549998




FUSE AND FUSIBLE LINK BLOCK 2
(M115), (M124), (M125)
40A 79
40A 80
30A 25
ELECTRONIC IGNITION SWITCH CONTROL UNIT
(M101)
FUEL FILLER LID LOCK ASSEMBLY
(M29)
FUEL FILLER LID SWITCH
FUEL FILLER LID LOCK ACTUATOR
REAR DOOR LOCK ASSEMBLY RH
(D121)
DOOR SWITCH
DOOR LOCK ACTUATOR
(D126)
(M64)
JOINT CONNECTOR -M12
(M361)
(M78)
BCM (BODY CONTROL MODULE)
(M25), (M26), (M27), (M28), (E15)
BACK DOOR LOCK ASSEMBLY
(M161)
BACK DOOR OPENER ACTUATOR
BACK DOOR SWITCH
(M66)
(M74)
(M199)
REAR DOOR LOCK ASSEMBLY LH
(D101)
(D106)
(M63)
BACK DOOR OPENER SWITCH
(M211)
(M92)
COMBINATION METER
(M32)
DATA LINE
DATA LINE
JRKWF8913GB


To CAN system (With 2.0L turbo gasoline engine)
To CAN system (With 1.6L turbo gasoline engine)
REMOTE KEYLESS ENTRY RECEIVER M150
LEFT FRONT INTELLIGENT KEY DOOR HANDLE D18
RIGHT FRONT INTELLIGENT KEY DOOR HANDLE D68
FUSE AND FUSIBLE LINK BLOCK 2 (M105, M130)
10A 58
5A 86
INTELLIGENT KEY UNIT M149
M93
FRONT INSIDE KEY ANTENNA M233
OUTSIDE KEY ANTENNA (LEFT DOOR) D105
OUTSIDE KEY ANTENNA (RIGHT DOOR) D125
REAR INSIDE KEY ANTENNA M151
JRKWF8914GB


FUSE AND FUSIBLE LINK BLOCK 1
E54 , E64
FANFARE RELAY
15A
205
2
39
To battery power supply
HORN (HI)
E88
HORN (LO)
E87
1
2
E38
JRKWF8915GB

DOOR LOCK SYSTEM

Connector No.	D1
Connector Name	DOOR LOCK AND UNLOCK SWITCH
Connector Type	MB_A0395456628

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	G	-

Connector No.	D12
Connector Name	LEFT FRONT DOOR CONTROL UNIT
Connector Type	MB_A0025406281

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
21	BR	BODY CAN 2-L
22	R	BODY CAN 2-H
23	L	ROTARY CATCH SIGNAL
24	BR	GROUND
25	R	BATTERY POWER SUPPLY

Connector No.	D15
Connector Name	LEFT FRONT DOOR CONTROL UNIT
Connector Type	MB_A0055403481

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
36	G	DOOR LOCK
37	G/B	DOOR UNLOCK
38	BR/W	DOOR OPEN SW GND
39	BR/P	DOOR OPEN SIG

Connector No.	D16
Connector Name	LEFT FRONT DOOR CONTROL UNIT
Connector Type	MB_A0255459626

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
41	P	POWER WINDOW SW SIG [LIN]
42	BR	POWER WINDOW SW GND
43	R	POWER WINDOW SW PWR
44	L	DOOR LOCK AND UNLOCK SW SIG
45	W	DOOR LOCK AND UNLOCK SW GND
50	G	DOOR LOCK AND UNLOCK SW IND

Connector No.	D18
Connector Name	LEFT FRONT INTELLIGENT KEY DOOR HANDLE
Connector Type	MB_A2115450828

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	L	-

Connector No.	D20
Connector Name	FRONT DOOR LOCK ASSEMBLY LH
Connector Type	MB_A0225452726

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	B	-
3	BR	-
4	P	-

Connector No.	D22
Connector Name	WIRE TO WIRE
Connector Type	MB_A0255458826

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	BR	-
3	P	-
4	B	-
5	R	-
6	W	-
7	B	-
8	SHIELD	-

Connector No.	D24
Connector Name	WIRE TO WIRE
Connector Type	MB_A0495450828

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	BR	-
3	L	-
4	BR	-
5	L	-
6	W	-
7	B	-
8	SHIELD	-

JRKWF8916GB

DOOR LOCK SYSTEM

Connector No.	D32
Connector Name	WIRE TO WIRE
Connector Type	AMP_953892-1



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	BR	-
3	P	-
4	GR	- [Without BOSE audio]
4	V	- [With BOSE audio]
5	P	-
6	L	-
7	R	-
8	W	-
9	B	-
10	R	-
11	G	-
12	BR	- [Without BOSE audio]
12	P	- [With BOSE audio]
13	B	-
15	B	-
16	SHIELD	-

Connector No.	D33
Connector Name	WIRE TO WIRE
Connector Type	MB_A2205453928



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	R	-
3	BR	-

4	R	-

Connector No.	D55
Connector Name	RIGHT FRONT DOOR CONTROL UNIT
Connector Type	MB_A0025406281



Terminal No.	Color Of Wire	Signal Name [Specification]
21	BR	BODY CAN 1-L
22	R	BODY CAN 1-H
24	BR	GROUND
25	R	BATTERY POWER SUPPLY

Connector No.	D58
Connector Name	RIGHT FRONT DOOR CONTROL UNIT
Connector Type	MB_A0055403481



Terminal No.	Color Of Wire	Signal Name [Specification]
36	G	DOOR LOCK
37	G/B	DOOR UNLOCK
38	BR/W	DOOR OPEN SW GND
39	BR/P	DOOR OPEN SIG

Connector No.	D68
Connector Name	RIGHT FRONT INTELLIGENT KEY DOOR HANDLE
Connector Type	MB_A2115450828

Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	L	-

Connector No.	D69
Connector Name	FRONT DOOR LOCK ASSEMBLY RH
Connector Type	MB_A0225452726

Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	B	-
3	BR	-
4	P	-

Connector No.	D72
Connector Name	WIRE TO WIRE
Connector Type	MB_A0255458826

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	BR	-
3	Y	-
4	GR	-
5	R	-
6	W	-
7	B	-
8	SHIELD	-

Connector No.	D74
Connector Name	WIRE TO WIRE
Connector Type	MB_A0495450828

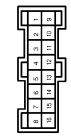
Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	BR	-
3	L	-
4	BR	-
5	L	-
6	W	-
7	B	-
8	SHIELD	-

JRKWF8917GB

DOOR LOCK SYSTEM

Connector No.	D82
Connector Name	WIRE TO WIRE
Connector Type	AMP_953892-1

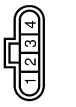
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	BR	-
3	G	-
4	GR	- [Without BOSE audio]
4	L	- [With BOSE audio]
5	Y	-
7	R	-
8	W	-
9	BR	-
10	R	-
11	G	-
12	BR	- [Without BOSE audio]
12	G	- [With BOSE audio]
13	GR	-
15	B	-
16	SHIELD	-

Connector No.	D101
Connector Name	REAR DOOR LOCK ASSEMBLY LH
Connector Type	MB_A0225452726

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	RR DOOR LH UNLOCK
2	L	RR DOOR LH LOCK
3	W	RR DOOR LH STATUS
4	BR	GND

Connector No.	D105
Connector Name	OUTSIDE KEY ANTENNA (LEFT DOOR)
Connector Type	MB_A0375455928

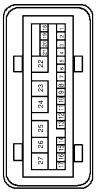
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	V	-

Connector No.	D106
Connector Name	WIRE TO WIRE
Connector Type	MB_A0085408981

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	B	-
3	G	- [Without BOSE audio]
3	W	- [With BOSE audio]
4	B	- [With BOSE audio]
4	L	- [Without BOSE audio]
5	G	-
6	V	-
8	W	-
9	P	-
10	L	-
11	G	-
12	W	-
13	O	-
14	W	-
15	R	-
16	Y	-
17	BR	-
19	GR	-
20	W	-
21	R	-
26	G	-
27	L	-

Connector No.	D121
Connector Name	REAR DOOR LOCK ASSEMBLY RH
Connector Type	MB_A0225452726

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	RR DOOR RH UNLOCK
2	L	RR DOOR RH LOCK
3	W	RR DOOR RH STATUS
4	BR	GND

Connector No.	D125
Connector Name	OUTSIDE KEY ANTENNA (RIGHT DOOR)
Connector Type	MB_A0375455928

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	-
2	O	-

Connector No.	D83
Connector Name	WIRE TO WIRE
Connector Type	MB_A2205453928

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	R	-
3	R	-
4	W	-

JRKWF8918GB

DOOR LOCK SYSTEM

Connector No.	D126
Connector Name	WIRE TO WIRE
Connector Type	MB_A0085408981

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	B	-
3	L	-
4	P	-
5	GR	-
6	O	-
8	W	-
9	P	-
10	L	-
11	G	-
12	W	-
13	O	-
14	W	-
15	R	-
16	Y	-
17	BR	-
19	GR	-
20	W	-
21	R	-
26	G	-
27	L	-

Connector No.	E15
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	MB_A1665400081

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
119	V	RR WASHER CONT
120	GR	FR WASHER CONT
121	W	BRAKE PEDAL
122	Y	SPARY NOZZLE HOSE HEATER POWER SUPPLY
123	G	INJECTION RELAY CONT
124	BR	HOOD SWITCH STATUS 1
125	B	K.I.S MOTORST
126	GR	PARKING LAMP LH
129	G	FRONT WIPER STOP POSITION
131	Y	FRONT FOG LAMP LH
132	O	HIGH BEAM LH
133	L	LOW BEAM RH [With halogen lamp]
133	Y	LOW BEAM RH [With LED lamp]
134	BR	WASHER LEVEL SW GND
135	P	HORN CONT
136	R	FR WIPER RELAY CONT
137	V	FR WIPER HI/LO RELAY CONT
138	G	BRAKE FLUID LEVEL SW SIG
139	L	WASHER LEVEL SW SIG
140	Y	HOOD SWITCH STATUS 2
141	R	WARM START
142	V	FRONT TURN SIGNAL LH

Connector No.	E54
Connector Name	FUSE AND FUSIBLE LINK BLOCK 1
Connector Type	MB_A0055459701

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	B	-

Connector No.	E64
Connector Name	FUSE AND FUSIBLE LINK BLOCK 1
Connector Type	MB_A0315459626

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
33	BR	-
34	G	-
35	V	-
36	P	-
37	R	-
38	V	-
39	P	-
41	W	-
42	R	-

Connector No.	E87
Connector Name	HORN (LO)
Connector Type	MB_A0525453826

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	BR	-

Connector No.	E88
Connector Name	HORN (HI)
Connector Type	MB_A0525453826

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	BR	-

JRKWF8919GB

DOOR LOCK SYSTEM

Connector No.	M5
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	MB_A0095405681

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	BUMPER SENSOR RH GROUND
2	W	BUMPER SENSOR RH SIGNAL
3	B	BUMPER SENSOR LH SIGNAL
4	W	BUMPER SENSOR LH GROUND
9	L/G	POP-UP ENGINE HOOD ACTUATOR RH (-)
10	BR/B	POP-UP ENGINE HOOD ACTUATOR RH (+)
11	O	POP-UP ENGINE HOOD ACTUATOR LH (+)
12	BR/W	POP-UP ENGINE HOOD ACTUATOR LH (-)
37	V	FUSE(-)
38	W	FUSE(+)
40	Y	OCCUPANT LIN SIGNAL
41	V/G	RPRH(+)
42	BR/Y	RPRH(-)
43	BR/Y	RPLH(-)
44	V/G	RPLH(+)
45	B	REAR BUCKLE SWITCH RH(-)
46	G	REAR BUCKLE SWITCH RH(+)
47	B	REAR BUCKLE SWITCH CENTER(-)
48	G	REAR BUCKLE SWITCH CENTER(+)
49	B	REAR BUCKLE SWITCH RH(-)
50	G	REAR BUCKLE SWITCH RH(+)
51	Y	AIR BAG SIGNAL
52	P	AIR BAG SIGNAL
53	G	CAN-L
54	W	CAN-H
57	R	B-SATELITE LH(+)
58	B	B-SATELITE LH(-)
59	BR	B-SATELITE RH(-)
60	L	B-SATELITE RH(+)
61	BR	FRONT DOOR SATELLITE RH(-)
62	G	FRONT DOOR SATELLITE RH(+)
63	B	FRONT DOOR SATELLITE LH(+)
64	BR	FRONT DOOR SATELLITE LH(-)
67	W	REAR DOOR SATELLITE RH(-)
68	B	REAR DOOR SATELLITE RH(+)
69	R	REAR DOOR SATELLITE LH(+)
70	W	REAR DOOR SATELLITE LH(-)
71	Y	BUCKLE SWITCH AS(+)
72	O	BUCKLE SWITCH AS(-)
73	Y	BUCKLE SWITCH DR(+)
74	O	BUCKLE SWITCH DR(-)
75	V/G	CLH(+)
76	BR/Y	CLH(-)
77	W/BR	CRH(+)
78	R/V	CRH(-)
85	P	CZS RH(+)
86	W	CZS RH(-)
87	BR	CZS LH(-)
88	L	CZS LH(+)
89	O	SAB AS(-)
90	Y	SAB AS(+)
93	Y	SAB DR(+)
94	O	SAB DR(-)
95	BR	FPRH(-)
96	L/W	FPRH(+)
97	G	FPLH(+)
98	V	FPLH(-)
100	BR	GND
101	BR	GND
103	Y	KI.15R
104	G	KI.30

Connector No.	M25
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	MB_A0075405081

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	ROTARY LIGHT SW GND
2	O	ROTARY LIGHT SW (PU/PR/TAIL)
3	R	ROTARY LIGHT SW (AUTO/LOW)
4	G	ROTARY LIGHT SW (FR FOG)
5	Y	-
7	GR	SWITCH INDICATOR
8	R	CAN-H (BODY 2)
9	BR	CAN-L (BODY 2)
12	O	LIN (IBS)
14	G	FOOT LAMP

Connector No.	M26
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	MB_A0235459826

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
15	W	BAT (FUSE)
16	BR	BAT (FUSE)
17	R	BAT (FUSE)
18	B	GND

Connector No.	M27
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	MB_A1665400381

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
19	Y	RR POWER WINDOW MOTOR RH CONT (UP)
20	G	RR POWER WINDOW MOTOR RH CONT (DOWN)
21	B	RR POWER WINDOW MOTOR LH CONT (UP)
22	GR	RR POWER WINDOW MOTOR LH CONT (DOWN)
23	P	AIR BAG SIGNAL
27	GR	BACK DOOR OPENER SW
33	O	RR POWER WINDOW SW LH GND
34	BR	RR POWER WINDOW SW LH (DOWN)
36	O	RR POWER WINDOW SW LH (UP)
37	W	RR DOOR RH STATUS
39	Y	BACK DOOR STATUS
40	V	BACK DOOR LAMP
41	W	RR DOOR LH STATUS
42	V	LUGGAGE ROOM LAMP
43	GR	BACK-UP LAMP LH
44	W	HIGH-MOUNTED STOP LAMP
45	O	TAIL LAMP (BODY RH)
48	GR	TAIL LAMP (BK RH)
50	GR	-
57	Y	STOP LAMP (BODY LH)
58	B	REAR TURN SIGNAL RH
59	P	RR DOOR RH UNLOCK
60	G	RR DOOR RH LOCK
62	GR	LICENSE PLATE LAMP LH
63	W	HALL SENSOR LH SIGNAL
64	GR	HALL SENSOR LH GND
65	R	HALL SENSOR LH POWER SUPPLY

Connector No.	M28
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	MB_A1665400481

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
67	V	BACK DOOR UNLOCK
69	GR	STOP LAMP (BODY RH)
70	B	REAR TURN SIGNAL LH
71	GR	BACK-UP LAMP RH
72	Y	LICENSE PLATE LAMP RH
73	L	RR POWER WINDOW SW RH UP
74	B	RR POWER WINDOW SW RH DOWN
75	L	RR POWER WINDOW SW RH GND
76	GR	HALL SENSOR RH POWER SUPPLY
77	R	SUB BAT-
78	B	TERMINAL RELAY 15R1 CONT
80	B	REAR WIPER RELAY CONT
82	GR	TAIL LAMP (BODY LH)
83	P	TERMINAL RELAY 15R2 CONT
85	B	TAIL LAMP (BK LH)
87	R	BAT (VIA LATCHING TERMINAL RELAY 30G)
89	O	HALL SENSOR RH GND
90	V	HALL SENSOR RH SIGNAL
91	P	FUEL LEVEL SENSOR GND
92	L	FUEL LEVEL SENSOR

JRKWF8920GB

DOOR LOCK SYSTEM

93	GR	FUEL LEVEL SENSOR
94	Y	FUEL FILLER LID STATUS
97	G	LATCHING TERMINAL RELAY 30G CONT 1
98	B	LATCHING TERMINAL RELAY 30G GND 1
99	W	LATCHING TERMINAL RELAY 30G GND 2
100	V	LATCHING TERMINAL RELAY 30G CONT 2
101	Y	REAR DOOR INSIDE HANDLE LAMP CONT
102	GR	AMBIENT LAMP CONT
103	V	SUB BAT RELAY CONT
105	G	RR DOOR LH UNLOCK
106	W	FUEL FILLER LID UNLOCK
107	L	RR DOOR LH LOCK
108	R	SUB BAT+
109	O	LIN (ROOF)
112	BR	CAN-L (BODY 1)
113	R	CAN-H (BODY 1)
114	B	INJECTION RELAY CONT

Connector No.	M29
Connector Name	FUEL FILLER LID LOCK ASSEMBLY
Connector Type	MB_A2115451728

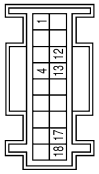
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	Y	-
3	W	-

Connector No.	M32
Connector Name	COMBINATION METER
Connector Type	MB_A0525452726

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	GROUND
4	R	BATTERY POWER SUPPLY
12	GR	CAN-L
13	W	CAN-H
17	BR	CAN-L
18	R	CAN-H

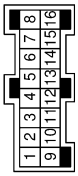
Connector No.	M33
Connector Name	WIRE TO WIRE
Connector Type	MB_A0365458728

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
3	R	-
4	B	-
5	W	-
6	B	-
7	G	-
8	R	-
9	V	-
10	BR	-
11	BR	-
14	BR	-

Connector No.	M59
Connector Name	WIRE TO WIRE
Connector Type	AMP_953893-1

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	BR	-
3	O	-
4	V	- [With BOSE audio]
4	W	- [Without BOSE audio]
5	P	-
6	L	-
7	R	-
8	W	-
9	B	-
10	R	-
11	G	-
12	L	- [Without BOSE audio]
12	P	- [With BOSE audio]
13	B	-
15	B	-
16	SHIELD	-

Connector No.	M60
Connector Name	WIRE TO WIRE
Connector Type	MB_A0375450528

H.S.

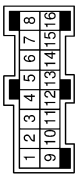


Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	Y	-
3	BR	-

4	R	-

Connector No.	M61
Connector Name	WIRE TO WIRE
Connector Type	AMP_953893-1

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	BR	-
3	G	-
4	L	- [With BOSE audio]
4	Y	- [Without BOSE audio]
5	V	-
7	R	-
8	W	-
9	BR	-
10	R	-
11	O	-
12	BR	- [Without BOSE audio]
12	G	- [With BOSE audio]
13	GR	-
15	B	-
16	SHIELD	-

Connector No.	M62
Connector Name	WIRE TO WIRE
Connector Type	MB_A0375450528

H.S.



JRKWF8921GB

DOOR LOCK SYSTEM

Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	R	-
3	R	-
4	W	-

Connector No.	M63
Connector Name	WIRE TO WIRE
Connector Type	MB_A0085409181

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	O	-
2	BR	-
3	G	- [Without BOSE audio]
3	W	- [With BOSE audio]
4	B	- [With BOSE audio]
4	L	- [Without BOSE audio]
5	G	-
6	V	-
8	GR	-
9	O	-
10	L	-
11	G	-
12	W	-
13	GR	-
14	W	-
15	R	-
16	Y	-
17	BR	-
19	GR	-
20	W	-
21	R	-
26	GR	-
27	B	-

Connector No.	M64
Connector Name	WIRE TO WIRE
Connector Type	MB_A0085409181

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	B	-
3	L	-
4	P	-
5	Y	-
6	O	-
8	GR	-
9	L	-
10	G	-
11	P	-
12	W	-
13	O	-
14	V	-
15	GR	-
16	Y	-
17	BR	-
19	GR	-
20	W	-
21	B	-
26	G	-
27	Y	-

Connector No.	M101
Connector Name	ELECTRONIC IGNITION SWITCH CONTROL UNIT
Connector Type	MB_A0265458426

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	CHASSIS CAN-L
2	W	CHASSIS CAN-H
3	R	BODY CAN 1-H
4	BR	BODY CAN 1-L
6	W	STEERING LOCK OPERATION
9	GR	REMOTE KEYLESS
10	W	POWER SUPPLY
11	BR	DIAGNOSTIC CAN-L
12	L	DIAGNOSTIC CAN-H

Connector No.	M105
Connector Name	FUSE AND FUSIBLE LINK BLOCK 2
Connector Type	MB_A0065451601

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
107	R	-

Connector No.	M115
Connector Name	FUSE AND FUSIBLE LINK BLOCK 2
Connector Type	MB_A0065450901

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
42	W	-

Connector No.	M118
Connector Name	FUSE AND FUSIBLE LINK BLOCK 2
Connector Type	MB_A0065451201

H.S.

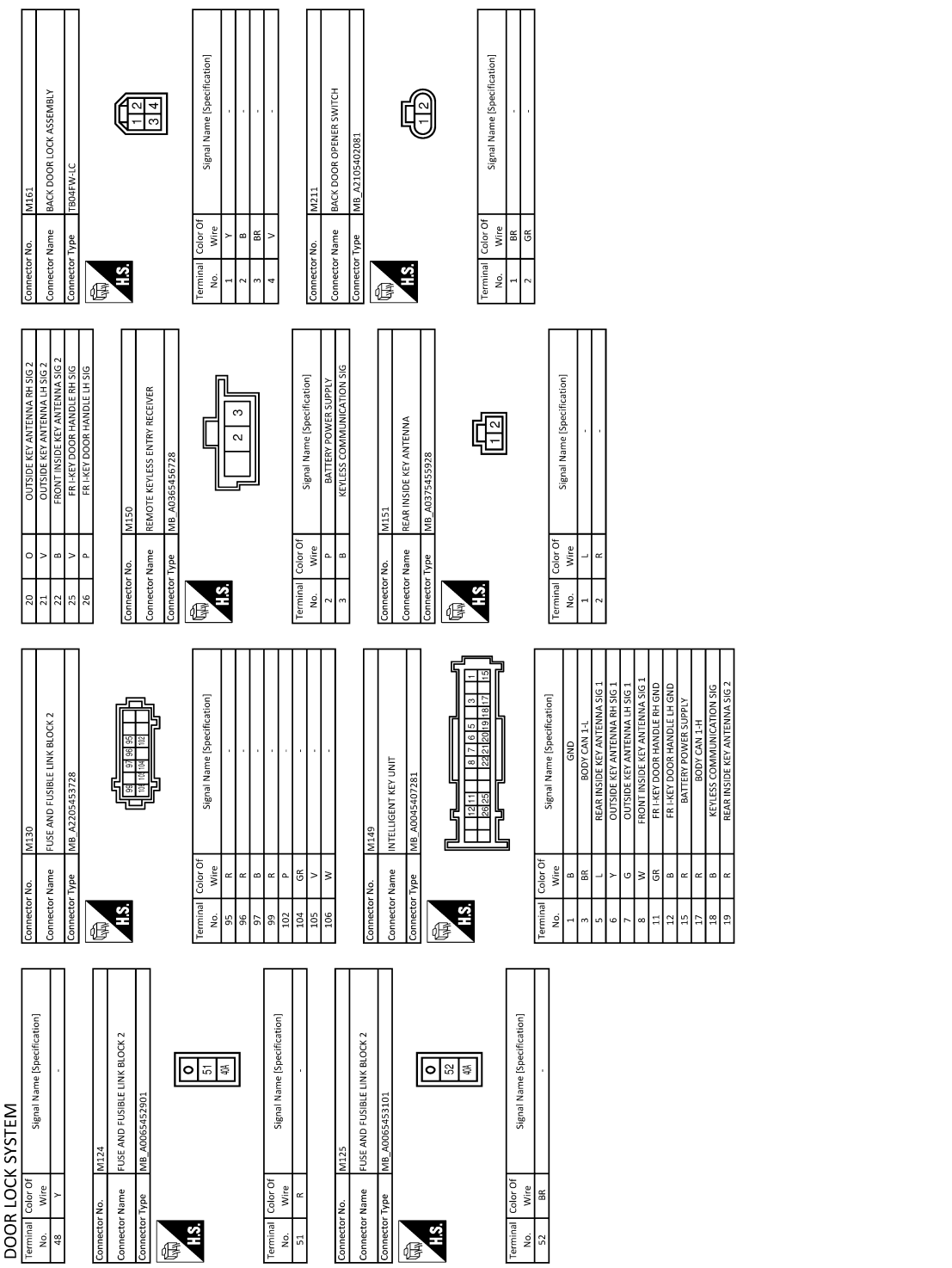
Terminal No.	Color Of Wire	Signal Name [Specification]
45	R	-

Connector No.	M121
Connector Name	FUSE AND FUSIBLE LINK BLOCK 2
Connector Type	MB_A0065451701

H.S.

JRKWF8922GB

DOOR LOCK SYSTEM



JRKWF8923GB

DOOR LOCK SYSTEM

Connector No.	M233
Connector Name	FRONT INSIDE KEY ANTENNA
Connector Type	MB_A0375455928

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	B	-

Connector No.	M235
Connector Name	WIRE TO WIRE
Connector Type	MB_A2205459928

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
3	B	-
4	Y	-
5	W	-
6	B	-
7	G	-
8	R	-
9	V	-
10	L	-
11	BR	-
14	BR	-

Connector No.	M266
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	MB_A0105404681

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
5	B	ACTIVE VENT PS(-)
6	Y	ACTIVE VENT PS(+)
37	V	FUSE-
38	W	FUSE+
40	Y	OCCUPANT LIN SIGNAL
41	V/G	RPRH(+)
42	BR/Y	RPRH(-)
43	BR/Y	RPLH(-)
44	V/G	RPLH(+)
51	Y	AIR BAG SIGNAL
52	P	AIR BAG SIGNAL
53	G	CAN-L
54	W	CAN-H
57	R	B-SATELITE LH(+)
58	B	B-SATELITE LH(-)
59	BR	B-SATELITE RH(-)
60	L	B-SATELITE RH(+)
61	BR	FRONT DOOR SATELLITE RH(-)
62	G	FRONT DOOR SATELLITE RH(+)
63	B	FRONT DOOR SATELLITE LH(+)
64	BR	FRONT DOOR SATELLITE LH(-)
65	G	SEAT POS PS(+)
66	BR	SEAT POS PS(-)
67	W	REAR DOOR SATELLITE RH(-)
68	B	REAR DOOR SATELLITE RH(+)
69	R	REAR DOOR SATELLITE LH(+)
70	W	REAR DOOR SATELLITE LH(-)
71	Y	BUCKLE_SWITCH_PS+
72	O	BUCKLE_SWITCH_PS-
73	Y	BUCKLE_SWITCH_DR+
74	O	BUCKLE_SWITCH_DR-
75	V/G	CLH(+)
76	BR/Y	CLH(-)
77	W/BR	CRH(+)
78	R/V	CRH(-)
81	R	FORCE LIMITER PS(-)
82	B	FORCE LIMITER PS(+)
85	P	CZS RH(-)
86	W	CZS RH(+)
87	BR	CZS LH(-)
88	L	CZS LH(+)
89	O	SAB AS(-)
90	Y	SAB AS(+)
93	Y	SAB DR(-)
94	O	SAB DR(+)
95	BR	FPRH(-)
96	L/W	FPRH(+)
97	G	FPLH(+)
98	V	FPLH(-)
100	BR	GND
101	BR	GND
103	Y	KI.15R
104	G	KI.30
22	L	-
23	W	-
24	W	-

Connector No.	M361
Connector Name	JOINT CONNECTOR-M12
Connector Type	FEA24JG

H.S.

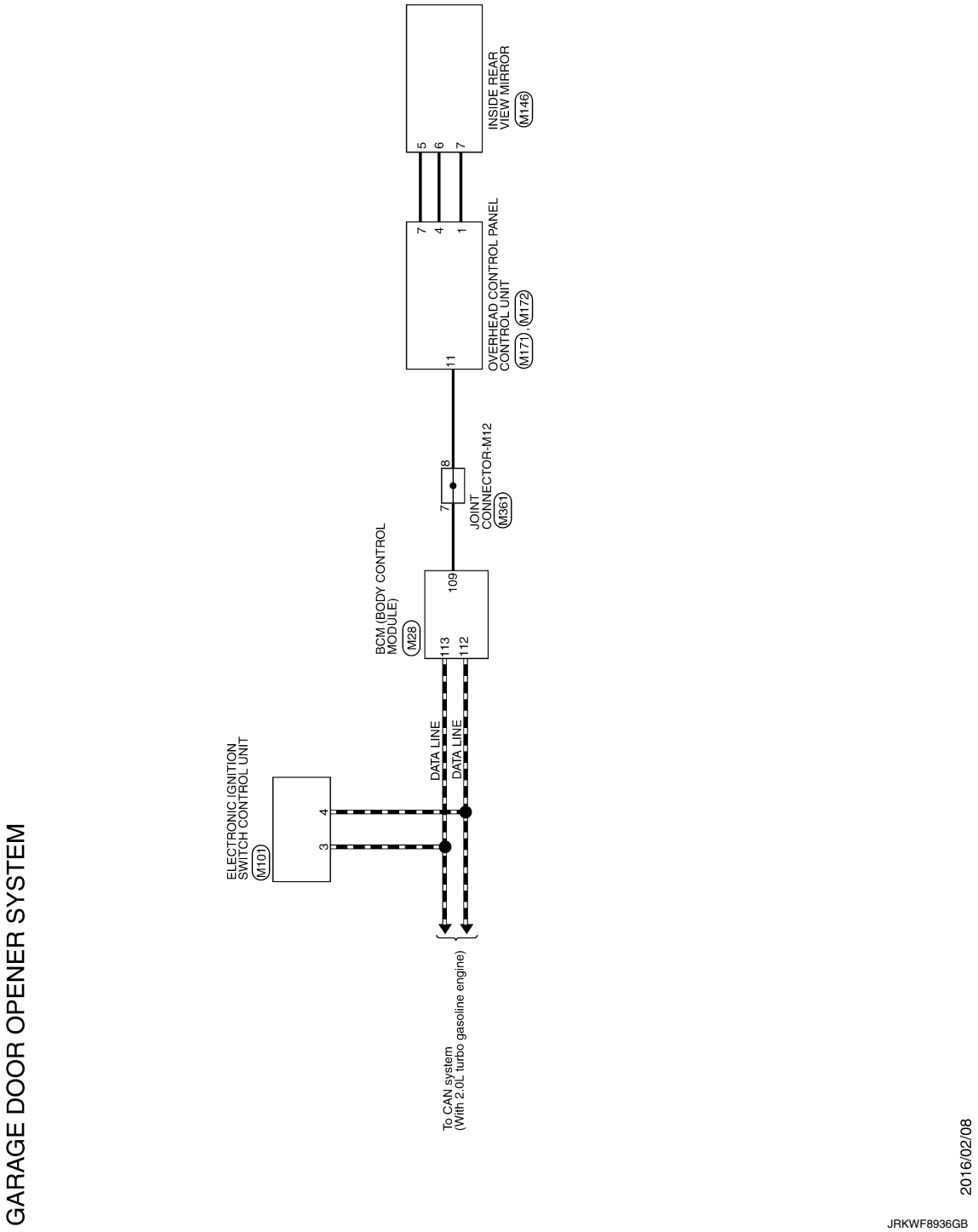
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	W	-
3	W	-
4	W	-
5	Y	-
6	Y	-
7	O	-
8	O	-
9	R	-
10	R	-
11	R	-
12	R	-
13	G	-
14	W	-
15	P	-
16	P	-
21	L	-

JRKWF8924GB

GARAGE DOOR OPENER SYSTEM

Wiring Diagram

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GARAGE DOOR OPENER SYSTEM

Connector No.	M28
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	MB_A1665400481

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
67	V	BACK DOOR UNLOCK
69	GR	STOP LAMP [BODY RH]
70	B	REAR TURN SIGNAL LH
71	GR	BACK-UP LAMP RH
72	Y	LICENSE PLATE LAMP RH
73	L	RR POWER WINDOW SW RH UP
74	B	RR POWER WINDOW SW RH DOWN
75	L	RR POWER WINDOW SW RH GND
76	GR	HALL SENSOR RH POWER SUPPLY
77	R	SUB BAT-
78	B	TERMINAL RELAY 15R1 CONT
80	B	REAR WIPER RELAY CONT
82	GR	TAIL LAMP [BODY LH]
83	P	TERMINAL RELAY 15R2 CONT
85	B	TAIL LAMP (BK LH)
87	R	BAT (VIA LATCHING TERMINAL RELAY 30G)
89	O	HALL SENSOR RH GND
90	V	HALL SENSOR RH SIGNAL
91	P	FUEL LEVEL SENSOR GND
92	L	FUEL LEVEL SENSOR
93	GR	FUEL LEVEL SENSOR
94	Y	FUEL FILLER LID STATUS
97	G	LATCHING TERMINAL RELAY 30G CONT 1
98	B	LATCHING TERMINAL RELAY 30G GND 1
99	W	LATCHING TERMINAL RELAY 30G GND 2
100	V	LATCHING TERMINAL RELAY 30G CONT 2
101	Y	REAR DOOR INSIDE HANDLE LAMP CONT
102	GR	AMBIENT LAMP CONT
103	V	SUB BAT RELAY CONT
105	G	RR DOOR LH UNLOCK
106	W	FUEL FILLER LID UNLOCK
107	L	RR DOOR LH LOCK
108	R	SUB BAT+
109	O	LIN (ROOF)
112	BR	CAN-L (BODY 1)

113	R	CAN-H (BODY 1)
114	B	INJECTION RELAY CONT

Connector No.	M101
Connector Name	ELECTRONIC IGNITION SWITCH CONTROL UNIT
Connector Type	MB_A0265458426

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	CHASSIS CAN-L
2	W	CHASSIS CAN-H
3	R	BODY CAN 1-H
4	BR	BODY CAN 1-L
6	W	STEERING LOCK OPERATION
9	GR	REMOTE KEYLESS
10	W	POWER SUPPLY
11	BR	DIAGNOSTIC CAN-L
12	L	DIAGNOSTIC CAN-H

Connector No.	M146
Connector Name	INSIDE REAR VIEW MIRROR
Connector Type	MB_A0385457328

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
5	BR	-
6	W	-
7	O	-

Connector No.	M171
Connector Name	OVERHEAD CONTROL PANEL CONTROL UNIT
Connector Type	MB_A0255458926

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	O	COMM LINE
2	L	INSIDE MIRROR LAMP LH PWR
3	R	INSIDE MIRROR LAMP RH PWR
4	W	INSIDE MIRROR PWR
5	BR	INSIDE MIRROR LAMP GND
6	G	AMBIENT LAMP [INSIDE MIRROR] PWR
7	BR	INSIDE MIRROR GND

Connector No.	M172
Connector Name	OVERHEAD CONTROL PANEL CONTROL UNIT
Connector Type	MB_A0025406781

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
11	O	LIN (ROOF)
12	B	GND
13	G	BATTERY POWER SUPPLY
14	O	BATTERY POWER SUPPLY

Connector No.	M361
Connector Name	JOINT CONNECTOR-M12
Connector Type	FEA24JG

H.S.

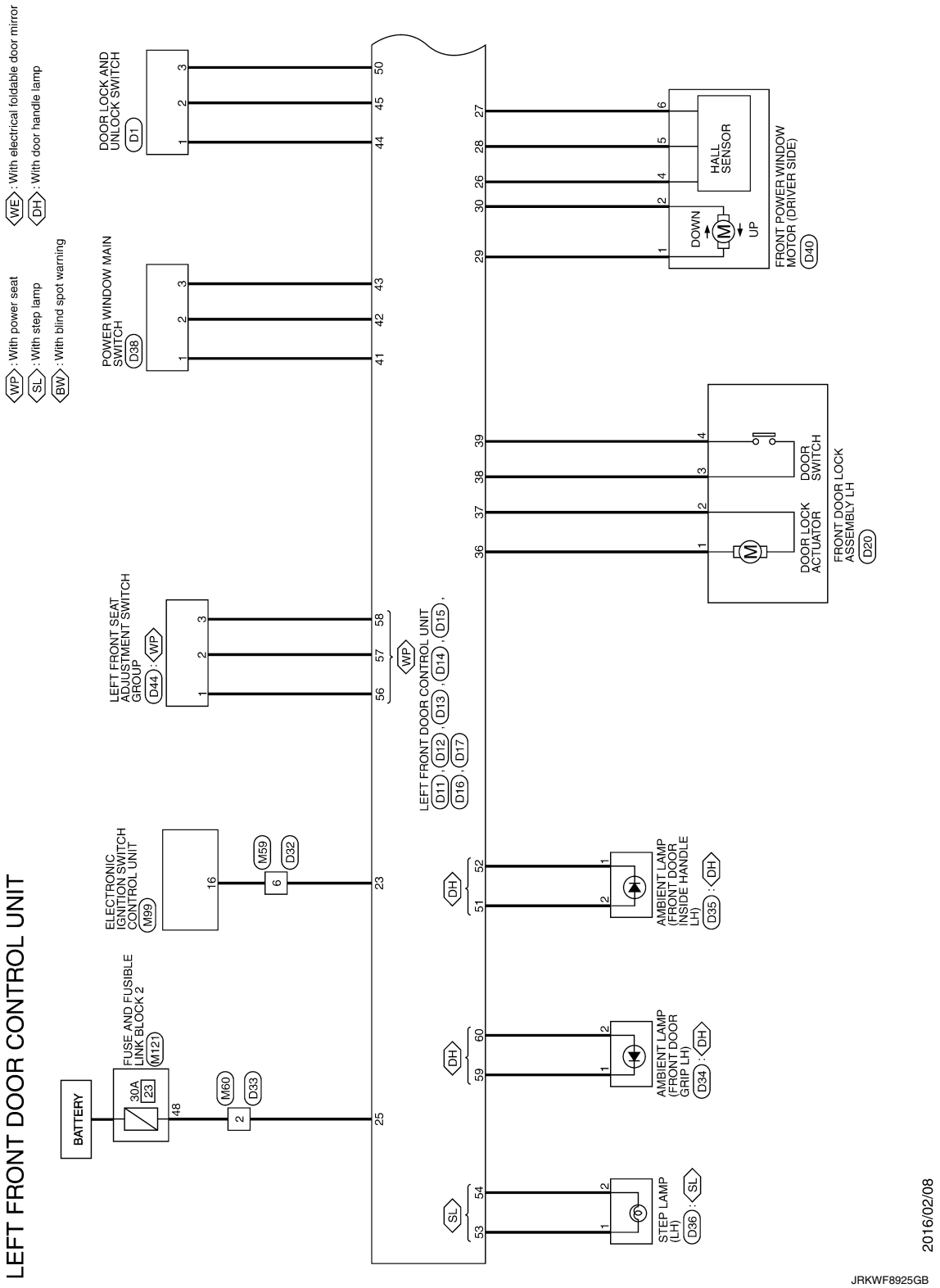
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	W	-
3	W	-
4	W	-
5	Y	-
6	Y	-
7	O	-
8	O	-
9	R	-
10	R	-
11	R	-
12	R	-
13	G	-
14	W	-
15	P	-
16	P	-
21	L	-
22	L	-
23	W	-
24	W	-

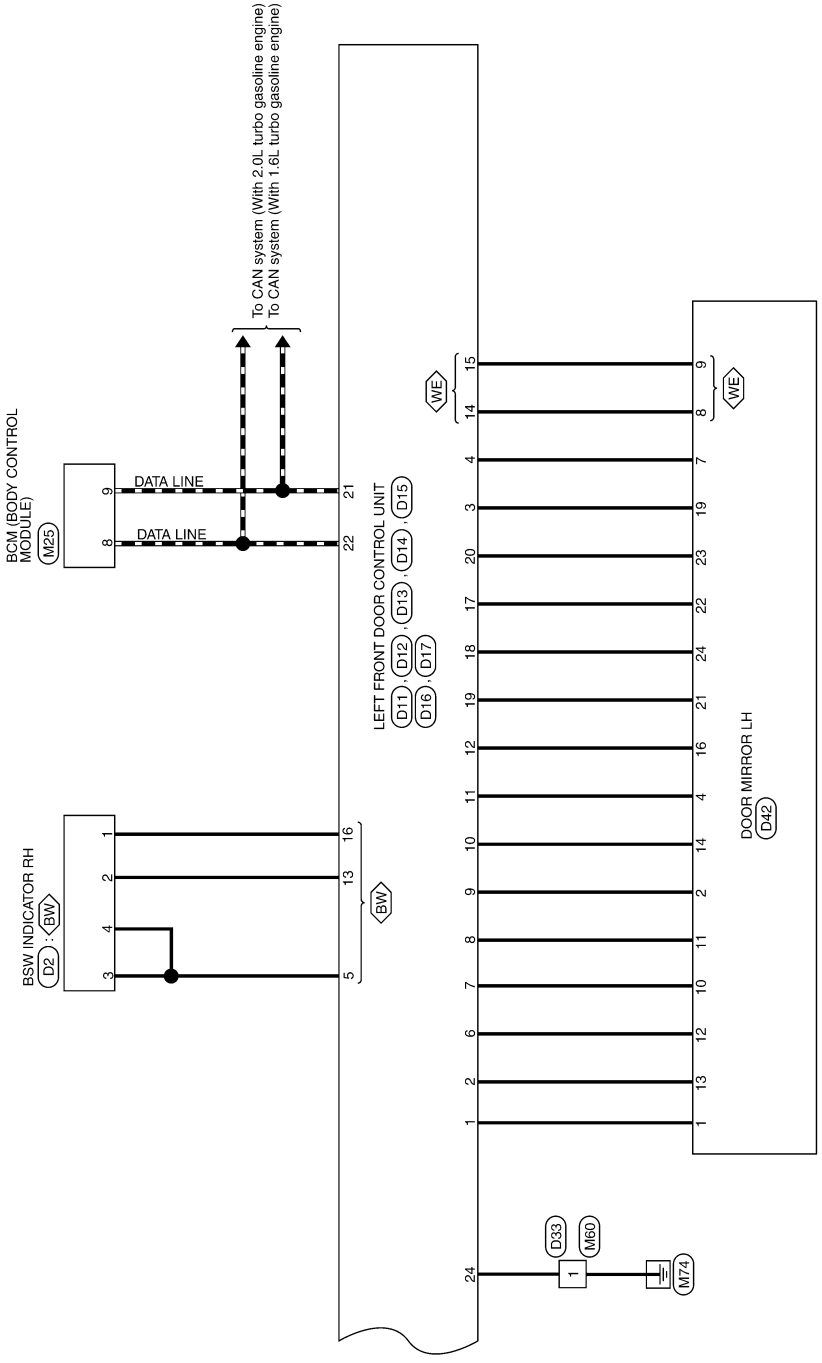
JRKWF8937GB

LEFT FRONT DOOR CONTROL UNIT

Wiring Diagram

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JRKWF8926GB

LEFT FRONT DOOR CONTROL UNIT

Connector No.	D1
Connector Name	DOOR LOCK AND UNLOCK SWITCH
Connector Type	MB_A0395456628

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	L	-
3	B	-
4	BR	-

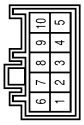
Connector No.	D2
Connector Name	BSW INDICATOR LH
Connector Type	TH04MW-NH

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	G	-

Connector No.	D11
Connector Name	LEFT FRONT DOOR CONTROL UNIT
Connector Type	MB_A0025405981

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	AUOTMATIC DIMMING MIRROR PWR
2	W	GND
3	B	DOOR MIRROR DEFOGGER GROUND
4	L	DOOR MIRROR DEFOGGER POWER SUPPLY
5	BR	BSW INDICATOR GND
6	P	ADJUSTMENTMOTOR POWER
7	L	VERTICAL INCLINATION CONT
8	Y	HORIZONTAL INCLINATION CONT
9	G	TURN SIG LAMP POWER
10	V	TURN SIG LAMP GND

Connector No.	D12
Connector Name	LEFT FRONT DOOR CONTROL UNIT
Connector Type	MB_A0025406281

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
21	BR	BODY CAN 2-L
22	R	BODY CAN 2-H
23	L	ROTARY CATCH SIGNAL
24	BR	GROUND
25	R	BATTERY POWER SUPPLY

Connector No.	D13
Connector Name	LEFT FRONT DOOR CONTROL UNIT
Connector Type	MB_A0025406481

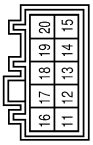
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
26	B/V	ENCODER SIGNAL
27	B/L	ENCODER POWER SUPPLY
28	B/BR	ENCODER GROUND
29	B	POWER WINDOW MOTOR DOWN
30	G	POWER WINDOW MOTOR UP

Connector No.	D14
Connector Name	LEFT FRONT DOOR CONTROL UNIT
Connector Type	MB_A0025407881

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
11	BR	AMBIENT LAMP (OUTSIDE MIRROR) PWR
12	V	AMBIENT LAMP (OUTSIDE MIRROR) GND
13	L	BSW INDICATOR STANDBY SIG
14	O	DOOR MIRROR LH OPEN
15	O	DOOR MIRROR LH CLOSE
16	L	BSW INDICATOR WARNING SIG
17	GR	HORIZONTAL INCLINATION SIG
18	BR	POTENTIONMETER GND
19	G	VERTICAL INCLINATION SIG
20	B	POTENTIONMETER PWR

Connector No.	D15
Connector Name	LEFT FRONT DOOR CONTROL UNIT
Connector Type	MB_A0055403481

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
36	G	DOOR LOCK
37	G/B	DOOR UNLOCK
38	BR/W	DOOR OPEN SW GND
39	BR/P	DOOR OPEN SIG

Connector No.	D16
Connector Name	LEFT FRONT DOOR CONTROL UNIT
Connector Type	MB_A0255459626

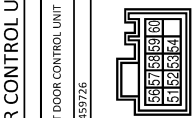
H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
41	P	POWER WINDOW SW SIG (LIN)
42	BR	POWER WINDOW SW GND
43	R	POWER WINDOW SW PWR
44	L	DOOR LOCK AND UNLOCK SW SIG
45	W	DOOR LOCK AND UNLOCK SW GND
50	G	DOOR LOCK AND UNLOCK SW IND

JRKWF8927GB

LEFT FRONT DOOR CONTROL UNIT

Connector No.	D17
Connector Name	LEFT FRONT DOOR CONTROL UNIT
Connector Type	MB_A0255459726



Terminal No.	Color Of Wire	Signal Name [Specification]
51	W	AMBIENT LAMP (FR INSIDE HANDLE) PWR
52	B	AMBIENT LAMP (FR INSIDE HANDLE) GND
53	P	STEP LAMP GND
54	V	STEP LAMP PWR
56	G	LEFT SEAT SW SIG (LIN)
57	Y	LEFT SEAT SW GND
58	R	RIGHT SEAT SW PWR
59	BR	AMBIENT LAMP (FR DOOR GRIP) GND
60	G	AMBIENT LAMP (FR DOOR GRIP) PWR

Connector No.	D20
Connector Name	FRONT DOOR LOCK ASSEMBLY LH
Connector Type	MB_A0225452726

Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	B	-
3	BR	-
4	P	-

Connector No.	D32
Connector Name	WIRE TO WIRE
Connector Type	AMP_953892-1



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	BR	-
3	P	-
4	GR	- [Without BOSE audio]
4	V	- [With BOSE audio]
5	P	-
6	L	-
7	R	-
8	W	-
9	B	-
10	R	-
11	G	-
12	BR	- [Without BOSE audio]
12	P	- [With BOSE audio]
13	B	-
15	B	-
16	SHIELD	-

Connector No.	D33
Connector Name	WIRE TO WIRE
Connector Type	MB_A2205453928



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	R	-
3	BR	-

4	R	-

Connector No.	D34
Connector Name	AMBIENT LAMP (FRONT DOOR GRIP LH)
Connector Type	MB_A0375456328



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	G	-

Connector No.	D35
Connector Name	AMBIENT LAMP (FRONT DOOR INSIDE HANDLE LH)
Connector Type	MB_A0375456328



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	W	-

Connector No.	D36
Connector Name	STEP LAMP (LH)
Connector Type	MB_A0375455928



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	V	-

Connector No.	D38
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	MB_A0395456728



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	BR	-
3	R	-

JRKWF8928GB

LEFT FRONT DOOR CONTROL UNIT

Connector No.	D40
Connector Name	FRONT POWER WINDOW MOTOR (DRIVER SIDE)
Connector Type	MB_A220545228

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	G	-
4	B/V	-
5	B/BR	-
6	B/L	-

Connector No.	D42
Connector Name	DOOR MIRROR LH
Connector Type	TH24MW-NH

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	G	-
4	BR	-
5	B	-
6	L	-
7	L	-
8	O	-
9	O	-
10	L	-
11	Y	-
12	P	-
13	W	-
14	V	-
16	V	-
17	SHIELD	-

18	W	-
19	B	-
21	G	-
22	GR	-
23	B	-
24	BR	-

Connector No.	D44
Connector Name	LEFT FRONT SEAT ADJUSTMENT SWITCH GROUP
Connector Type	MB_A0395456728

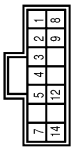
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	Y	-
3	R	-

Connector No.	M25
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	MB_A0075405081

H.S.

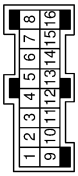


Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	ROTARY LIGHT SW GND
2	O	ROTARY LIGHT SW (PL/PR/TAL)
3	R	ROTARY LIGHT SW (AUTO/LOW)
4	G	ROTARY LIGHT SW (FR FOG)
5	Y	-
7	GR	SWITCH INDICATOR
8	R	CAN-H (BODY 2)
9	BR	CAN-L (BODY 2)
12	O	LIN (IBS)

14	G	FOOT LAMP

Connector No.	M59
Connector Name	WIRE TO WIRE
Connector Type	AMP_953893-1

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	BR	-
3	O	-
4	V	- [With BOSE audio]
4	W	- [Without BOSE audio]
5	P	-
6	L	-
7	R	-
8	W	-
9	B	-
10	R	-
11	G	-
12	L	- [Without BOSE audio]
12	P	- [With BOSE audio]
13	B	-
15	B	-
16	SHIELD	-

Connector No.	M60
Connector Name	WIRE TO WIRE
Connector Type	MB_A0375450528

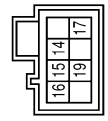
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	Y	-
3	BR	-
4	R	-

Connector No.	M99
Connector Name	ELECTRONIC IGNITION SWITCH CONTROL UNIT
Connector Type	MB_A0255459026

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
14	R	POWER SUPPLY
15	B	GND
16	L	ROTARY CATCH
17	P	NOT P
19	V	POWER SUPPLY

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LEFT FRONT DOOR CONTROL UNIT

Connector No.	M121
Connector Name	FUSE AND FUSIBLE LINK BLOCK 2
Connector Type	MB_A0065451701

H.S.



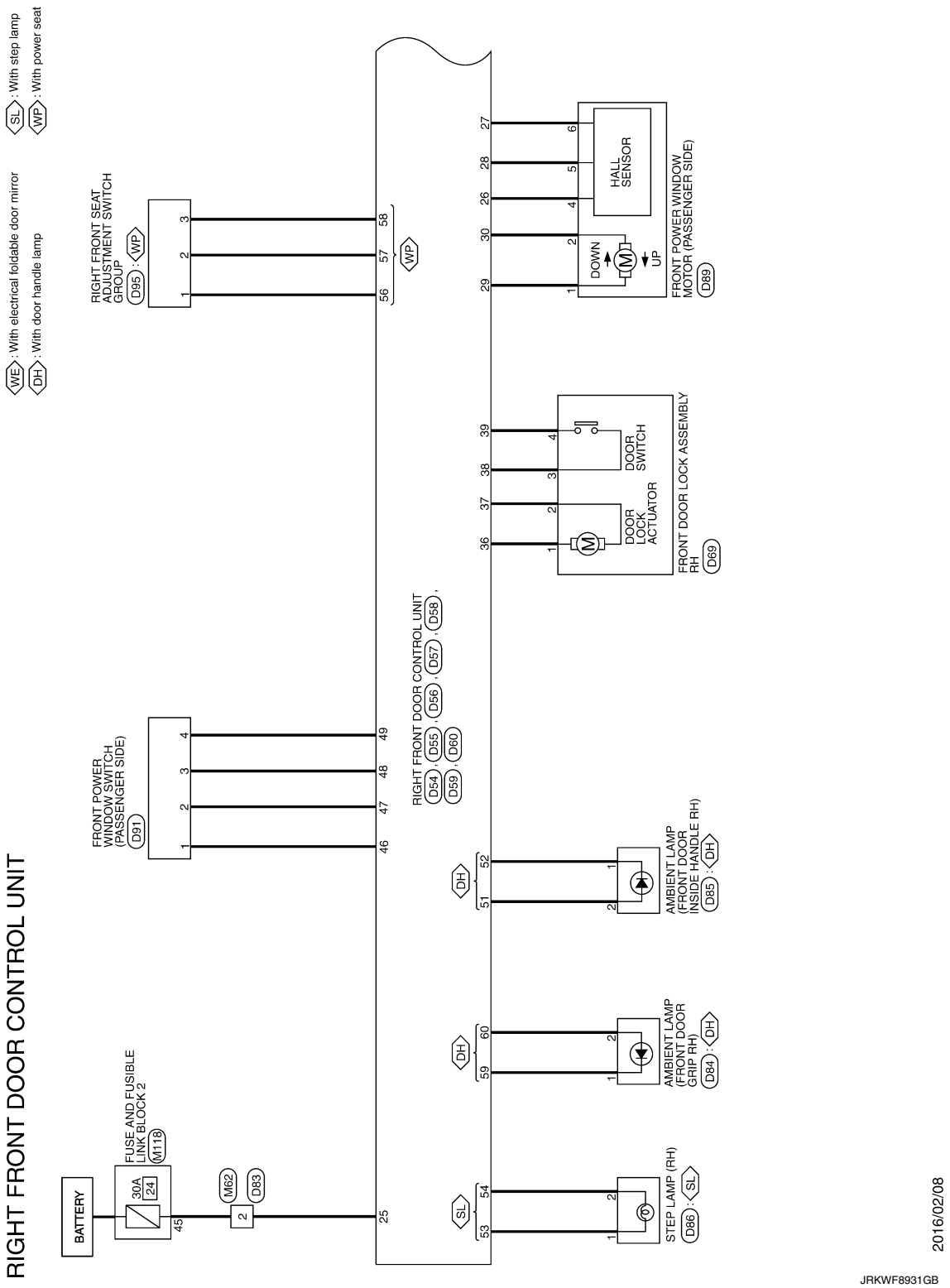
Terminal No.	Color Of Wire	Signal Name [Specification]
48	Y	-

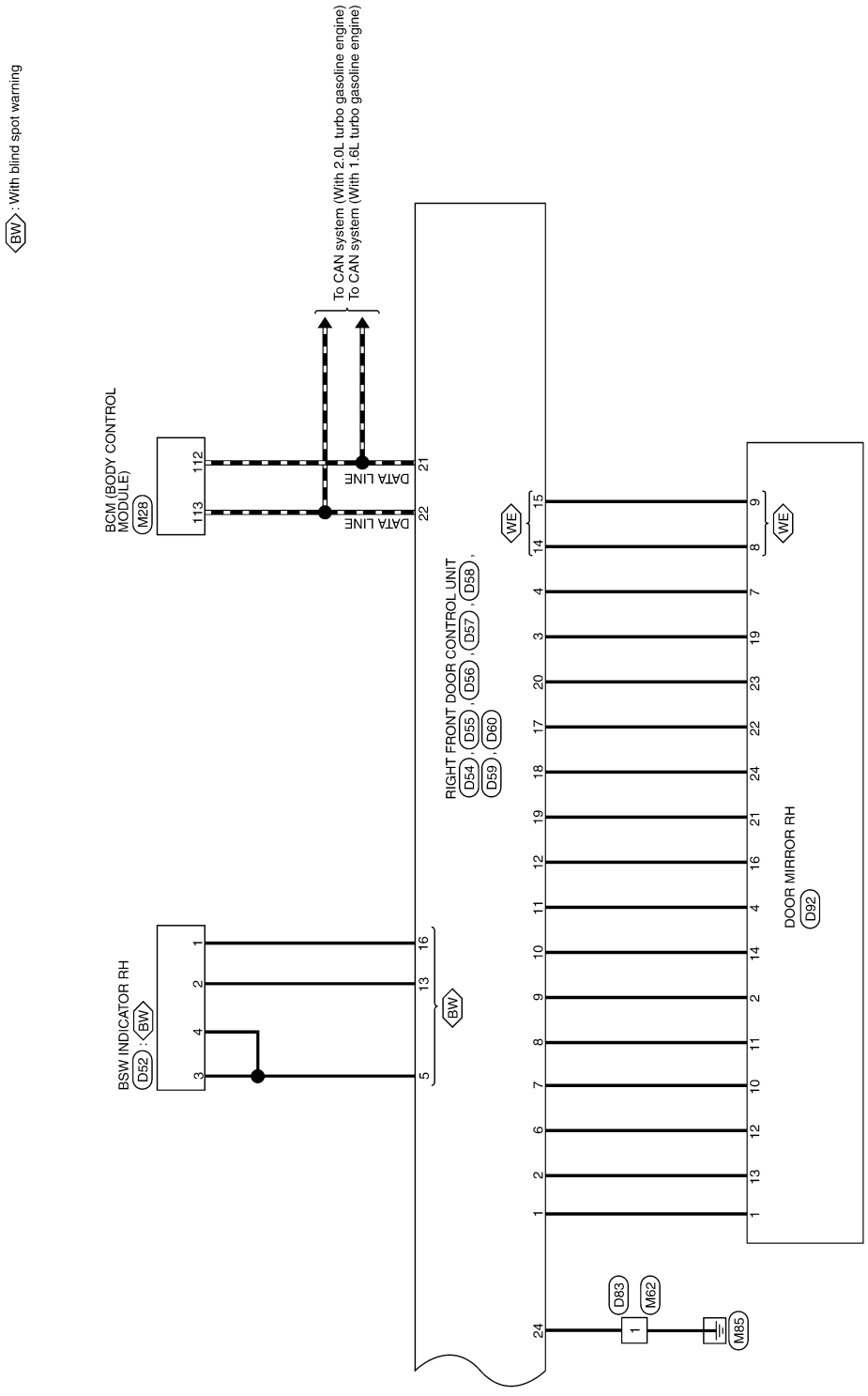
JRKWF8930GB

RIGHT FRONT DOOR CONTROL UNIT

Wiring Diagram

INFOID:0000000013550001




BW : With blind spot warning
To CAN system (With 2.0L turbo gasoline engine)
To CAN system (With 1.6L turbo gasoline engine)
BCM (BODY CONTROL MODULE)
M28
112
113
DATA LINE
DATA LINE
21
22
RIGHT FRONT DOOR CONTROL UNIT
D54, D55, D56, D57, D58, D59, D60
WE
WE
DOOR MIRROR RH
D92
BSW INDICATOR RH
D52 : BW
BW
D83
M62
M85
JRKWF8932GB

RIGHT FRONT DOOR CONTROL UNIT

Connector No.	D52
Connector Name	BSW INDICATOR RH
Connector Type	TH04MW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	L	-
3	B	-
4	BR	-

Connector No.	D54
Connector Name	RIGHT FRONT DOOR CONTROL UNIT
Connector Type	MB_A0025405981

Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	AUOTMATIC DIMMING MIRROR PWR
2	Y	GND
3	G	DOOR MIRROR DEFOGGER GROUND
4	L	DOOR MIRROR DEFOGGER POWER SUPPLY
5	BR	BSW INDICATOR GND
6	V	ADJUSTMENTMOTOR POWER
7	P	VERTICAL INCLINATION CONT
8	W	HORIZONTAL INCLINATION CONT
9	GR	TURN SIG LAMP POWER
10	O	TURN SIG LAMP GND

Connector No.	D55
Connector Name	RIGHT FRONT DOOR CONTROL UNIT
Connector Type	MB_A0025406281

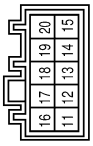


Terminal No.	Color Of Wire	Signal Name [Specification]
21	BR	BODY CAN 1-L
22	R	BODY CAN 1-H
24	BR	GROUND
25	R	BATTERY POWER SUPPLY

Connector No.	D56
Connector Name	RIGHT FRONT DOOR CONTROL UNIT
Connector Type	MB_A0025406481

Terminal No.	Color Of Wire	Signal Name [Specification]
26	B/V	ENCODER SIGNAL
27	B/L	ENCODER POWER SUPPLY
28	B/BR	ENCODER GROUND
29	B	POWER WINDOW MOTOR DOWN
30	G	POWER WINDOW MOTOR UP

Connector No.	D57
Connector Name	RIGHT FRONT DOOR CONTROL UNIT
Connector Type	MB_A0025407881

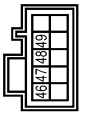


Terminal No.	Color Of Wire	Signal Name [Specification]
11	L	AMBIENT LAMP (OUTSIDE MIRROR) PWR
12	P	AMBIENT LAMP (OUTSIDE MIRROR) GND
13	L	BSW INDICATOR STANDBY SIG
14	B	DOOR MIRROR LH OPEN
15	B	DOOR MIRROR LH CLOSE
16	L	BSW INDICATOR WARNING SIG
17	O	HORIZONTAL INCLINATION SIG
18	O	POTENTIONMETER GND
19	BR	VERTICAL INCLINATION SIG
20	Y	POTENTIONMETER PWR

Connector No.	D58
Connector Name	RIGHT FRONT DOOR CONTROL UNIT
Connector Type	MB_A0055403481

Terminal No.	Color Of Wire	Signal Name [Specification]
36	G	DOOR LOCK
37	G/B	DOOR UNLOCK
38	BR/W	DOOR OPEN SW GND
39	BR/P	DOOR OPEN SIG

Connector No.	D59
Connector Name	RIGHT FRONT DOOR CONTROL UNIT
Connector Type	MB_A0255459626



Terminal No.	Color Of Wire	Signal Name [Specification]
46	V	POWER WINDOW SW OPEN SIG
47	BR	SW GND
48	O	POWER WINDOW SW INDICATOR
49	G	POWER WINDOW SW CLOSE SIG

Connector No.	D60
Connector Name	RIGHT FRONT DOOR CONTROL UNIT
Connector Type	MB_A0255459726

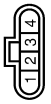
Terminal No.	Color Of Wire	Signal Name [Specification]
51	W	AMBIENT LAMP (FR INSIDE HANDLE) PWR
52	B	AMBIENT LAMP (FR INSIDE HANDLE) GND
53	P	STEP LAMP GND
54	V	STEP LAMP PWR
56	G	RIGHT SEAT SW SIG (LIN)
57	Y	RIGHT SEAT SW GND
58	R	RIGHT SEAT SW PWR
59	BR	AMBIENT LAMP (FR DOOR GRIP) GND
60	G	AMBIENT LAMP (FR DOOR GRIP) PWR

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RIGHT FRONT DOOR CONTROL UNIT

Connector No.	D69
Connector Name	FRONT DOOR LOCK ASSEMBLY RH
Connector Type	MB_A0225452726

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	B	-
3	BR	-
4	P	-

Connector No.	D83
Connector Name	WIRE TO WIRE
Connector Type	MB_A2205453928

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	R	-
3	R	-
4	W	-

Connector No.	D84
Connector Name	AMBIENT LAMP (FRONT DOOR GRIP RH)
Connector Type	MB_A0375456328

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	G	-

Connector No.	D85
Connector Name	AMBIENT LAMP (FRONT DOOR INSIDE HANDLE RH)
Connector Type	MB_A0375456328

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	W	-

Connector No.	D86
Connector Name	STEP LAMP (RH)
Connector Type	MB_A0375455928

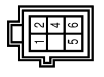
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	V	-

Connector No.	D89
Connector Name	FRONT POWER WINDOW MOTOR (PASSENGER SIDE)
Connector Type	MB_A2205455228

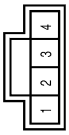
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	G	-
4	B/V	-
5	B/BR	-
6	B/L	-

Connector No.	D91
Connector Name	FRONT POWER WINDOW SWITCH (PASSENGER SIDE)
Connector Type	MB_A0385451228

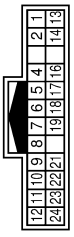
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	BR	-
3	O	-
4	G	-

Connector No.	D92
Connector Name	DOOR MIRROR RH
Connector Type	TH24MW-NH

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	-
2	GR	-
4	L	-
5	B	-
6	L	-
7	L	-
8	B	-
9	B	-
10	P	-
11	W	-
12	V	-
13	Y	-
14	O	-
16	P	-
17	SHIELD	-
18	W	-

JRKWF8934GB

RIGHT FRONT DOOR CONTROL UNIT

19	G
21	BR
22	O
23	Y
24	O

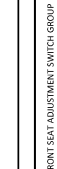
Connector No.	D95
Connector Name	RIGHT FRONT SEAT ADJUSTMENT SWITCH GROUP
Connector Type	MB_A0395456728

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	Y	-
3	R	-

Connector No.	M28
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	MB_A1665400481

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
67	V	BACK DOOR UNLOCK
69	GR	STOP LAMP (BODY RH)
70	B	REAR TURN SIGNAL LH
71	GR	BACK-UP LAMP RH
72	Y	LICENSE PLATE LAMP RH
73	L	RR POWER WINDOW SW RH UP
74	B	RR POWER WINDOW SW RH DOWN
75	L	RR POWER WINDOW SW RH GND
76	GR	HALL SENSOR RH POWER SUPPLY
77	R	SUB BAT-
78	B	TERMINAL RELAY 15R1 CONT
80	B	REAR WIPER RELAY CONT
82	GR	TAIL LAMP (BODY LH)
83	P	TERMINAL RELAY 15R2 CONT
85	B	TAIL LAMP (BK LH)
87	R	BAT (VIA LATCHING TERMINAL RELAY 30G)
89	O	HALL SENSOR RH GND
90	V	HALL SENSOR RH SIGNAL
91	P	FUEL LEVEL SENSOR GND
92	L	FUEL LEVEL SENSOR
93	GR	FUEL LEVEL SENSOR
94	Y	FUEL FILLER LID STATUS
97	G	LATCHING TERMINAL RELAY 30G CONT 1
98	B	LATCHING TERMINAL RELAY 30G GND 1
99	W	LATCHING TERMINAL RELAY 30G GND 2
100	V	LATCHING TERMINAL RELAY 30G CONT 2
101	Y	REAR DOOR INSIDE HANDLE LAMP CONT
102	GR	AMBIENT LAMP CONT
103	V	SUB BAT RELAY CONT
105	G	RR DOOR LH UNLOCK
106	W	FUEL FILLER LID UNLOCK
107	L	RR DOOR LH LOCK
108	R	SUB BAT+
109	O	LIN (ROOF)
112	BR	CAN-L (BODY 1)
113	R	CAN-H (BODY 1)
114	B	INJECTION RELAY CONT

Connector No.	M62
Connector Name	WIRE TO WIRE
Connector Type	MB_A0375450528

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	R	-
3	R	-
4	W	-

Connector No.	M118
Connector Name	FUSE AND FUSIBLE LINK BLOCK 2
Connector Type	MB_A0065451201

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
45	R	-

JRKWF8935GB

BASIC INSPECTION

ADDITIONAL SERVICE WHEN REPLACING INTELLIGENT KEY UNIT

Description

INFOID:0000000013550002

When replacing Intelligent Key unit, the procedures of AFTER REPLACEMENT must be performed. For work procedure, refer to DLK-99, "Work Procedure".

AFTER REPLACEMENT

After replacing Intelligent Key unit, the following items must be performed:

- Configuration

Work Procedure

INFOID:0000000013550003

1.PERFORM CONFIGURATION (WRITING VEHICLE SPECIFICATION)

With CONSULT

Perform configuration. Refer to DLK-101, "Description".

NOTE:

Log in to the network, according to the CONSULT screen.

>> END

ADDITIONAL SERVICE WHEN REPLACING FRONT DOOR CONTROL UNIT

Description

INFOID:0000000013550004

When replacing left front door control unit/right front door control unit, the procedures of AFTER REPLACEMENT must be performed. For work procedure, refer to DLK-100, "Work Procedure".

AFTER REPLACEMENT

After replacing left front door control unit/right front door control unit, the following items must be performed:

- Configuration

Work Procedure

INFOID:0000000013550005

1.PERFORM CONFIGURATION (WRITING VEHICLE SPECIFICATION)

With CONSULT

Perform configuration. Refer to DLK-102, "Description".

NOTE:

Log in to the network, according to the CONSULT screen.

>> GO TO 2

2.POWER WINDOW SYSTEM INITIALIZATION

Perform power window system initialization. Refer to PWC-26, "Description".

Is the inspection result normal&?

YES >> GO TO 3
NO >> Perform the power window system initialization again.

3.SELF DIAGNOSTIC RESULT CHECK

1. Select “Self Diagnostic Result” mode of “Left front door control unit” or “Right front door control unit” using CONSULT.
2. Check DTC.

Is DTC detected?

YES >> Repair or replace the malfunctioning parts.
NO >> WORK END

CONFIGURATION (INTELLIGENT KEY UNIT)

Description

INFOID:0000000013550006

Vehicle specification needs to be written with CONSULT because it is not written after replacing the Intelligent Key unit.
The configuration requires network connection. CONSULT connects to network and then it downloads the configuration data from the server. Then CONSULT writes the vehicle specification to the Intelligent Key unit.
Refer to DLK-101, "Work Procedure".
NOTE:
For details the network connection and operation, refer to “CONSULT Operation Manual”.
The configuration no need to “save” configuration data from the Intelligent Key unit. The configuration data is always generated freshly at the server and then downloaded to the CONSULT.
CAUTION:
- **Complete the procedure of “Read / Write Configuration” in order.**
- **If incorrect “Read / Write Configuration”, incidents might occur.**
- **Never perform “Read / Write Configuration” except for new Intelligent Key unit.**

Work Procedure

INFOID:0000000013550007

1.WRITING VEHICLE SPECIFICATION

CONSULT Configuration
Perform “WRITE CONFIGURATION” for CONTROL UNIT according to “CONSULT Operation Manual”.
NOTE:
- Log in the network according to CONSULT guidance.
- For details the network connection and operation, refer to “CONSULT Operation Manual”.

>> WORK END

CONFIGURATION (FRONT DOOR CONTROL UNIT)

Description

INFOID:0000000013550008

Vehicle specification needs to be written with CONSULT because it is not written after replacing the left front door control unit/right front door control unit.
The configuration requires network connection. CONSULT connects to network and then it downloads the configuration data from the server. Then CONSULT writes the vehicle specification to the left front door control unit/right front door control unit.
Refer to DLK-102, "Work Procedure".
NOTE:
For details the network connection and operation, refer to “CONSULT Operation Manual”.
The configuration no need to “save” configuration data from the Intelligent Key unit. The configuration data is always generated freshly at the server and then downloaded to the CONSULT.
CAUTION:
- **Complete the procedure of “Read / Write Configuration” in order.**
- **If incorrect “Read / Write Configuration”, incidents might occur.**
- **Never perform “Read / Write Configuration” except for new left front door control unit/right front door control unit.**

Work Procedure

INFOID:0000000013550009

1.WRITING VEHICLE SPECIFICATION

CONSULT Configuration
Perform “WRITE CONFIGURATION” for CONTROL UNIT according to “CONSULT Operation Manual”.
NOTE:
- Log in the network according to CONSULT guidance.
- For details the network connection and operation, refer to “CONSULT Operation Manual”.

>> WORK END

DTC/CIRCUIT DIAGNOSIS

B18B1 DOOR LOCK ACTUATOR
LH

LH : DTC Description

INFOID:0000000013550010

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B18B1	01	Door lock actuator output signal	[ELECTRICAL MALFUNCTION]	Diagnosis condition	Door lock function: activated
				Signal (terminal)	Door lock/unlock signal
				Threshold	Harness to the front door lock assembly LH (door lock actuator) has a short circuit
				Diagnosis delay time	20 msec
	13		[CIRC OPEN]	Diagnosis condition	Door lock function: activated
				Signal (terminal)	Door lock/unlock signal
				Threshold	Harness to the front door lock assembly LH (door lock actuator) has a open circuit
				Diagnosis delay time	420 msec

POSSIBLE CAUSE (B18B1-01)

- Short circuit between front door lock actuator LH and left front door control unit
- Door lock actuator
- Left front door control unit

POSSIBLE CAUSE (B18B1-13)

- Disconnection between front door lock actuator LH and left front door control unit
- Door lock actuator
- Left front door control unit

FAIL-SAFE

Inhibit door lock function

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Press door lock and unlock switch.
3. Select “Self Diagnostic Result” mode of “Left front door control unit” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-103, "LH : Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

LH : Diagnosis Procedure

INFOID:0000000013550011

DTC “B18B1-01”

1.CHECK DOOR LOCK ACTUATOR INPUT SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect left front door control unit and front door lock assembly connector.

3. Check voltage between left front door control unit harness connector and ground.

(+)		(–)	Voltage (Approx.)
Left front door control unit			
Connector	Terminal		
D15	36	Ground	0 V
	37		

4. Check continuity between left front door control unit harness connector and ground.

Left front door control unit		Ground	Continuity
Connector	Terminal		
D15	36		Not existed
	37		

Is the inspection result normal?

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

2.ERASE DTC

1. Connect left front door control unit and front door lock assembly connector.
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “Left front door control unit” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-103, "LH : DTC Description".

Is DTC “B18B1-01” detected?

YES >> GO TO 3.
NO >> INSPECTION END

3.REPLACE DOOR LOCK ACTUATOR AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace front door lock assembly (driver side). Refer to DLK-265, "DOOR LOCK : Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “Left front door control unit” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-103, "LH : DTC Description".

Is DTC “B18B1-01” detected?

YES >> Replace left front door control unit. Refer to DLK-286, "Removal and Installation".
NO >> INSPECTION END

DTC “B18B1-13”

1.CHECK DOOR LOCK ACTUATOR INPUT SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect left front door control unit and front door lock assembly connector.
3. Check continuity between left front door control unit harness connector and front door lock assembly harness connector.

Left front door control unit		Front door lock assembly (driver side)		Continuity
Connector	Terminal	Connector	Terminal	
D15	36	D20	1	Existed
	37		2	

Is the inspection result normal?

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

2.ERASE DTC

1. Connect left front door control unit and front door lock assembly connector.
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “Left front door control unit” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-103, "LH : DTC Description".

Is DTC “B18B1-13” detected?

YES >> GO TO 3.
NO >> INSPECTION END

3.REPLACE DOOR LOCK ACTUATOR AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace front door lock assembly (driver side). Refer to DLK-265, "DOOR LOCK : Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “Left front door control unit” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-103, "LH : DTC Description".

Is DTC “B18B1-13” detected?

YES >> Replace left front door control unit. Refer to DLK-286, "Removal and Installation".
NO >> INSPECTION END

RH

RH : DTC Description

INFOID:0000000013550012

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B18B1	01	Door lock actuator output signal	[ELECTRICAL MALFUNCTION]	Diagnosis condition	Door lock function: activated
				Signal (terminal)	Door lock/unlock signal
				Threshold	Harness to the front door lock assembly RH (door lock actuator) has a short circuit
				Diagnosis delay time	20 msec
	13		[CIRC OPEN]	Diagnosis condition	Door lock function: activated
				Signal (terminal)	Door lock/unlock signal
				Threshold	Harness to the front door lock assembly RH (door lock actuator) has a open circuit
				Diagnosis delay time	420 msec

POSSIBLE CAUSE (B18B1-01)

- Short circuit between front door lock actuator RH and right front door control unit
- Door lock actuator
- Right front door control unit

POSSIBLE CAUSE (B18B1-13)

- Disconnection between front door lock actuator RH and right front door control unit
- Door lock actuator
- Right front door control unit

FAIL-SAFE

Inhibit door lock function

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Press door lock and unlock switch.
3. Select “Self Diagnostic Result” mode of “Right front door control unit” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-106, "RH : Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

RH : Diagnosis Procedure

INFOID:0000000013550013

DTC “B18B1-01”

1.CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect right front door control unit and front door lock assembly connector.
3. Check voltage between right front door control unit harness connector and ground.

(+)		(–)	Voltage (Approx.)
Right front door control unit			
Connector	Terminal		
D58	36	Ground	0 V
	37		

4. Check continuity between right front door control unit harness connector and ground.

Right front door control unit		Ground	Continuity
Connector	Terminal		
D58	36		Not existed
	37		

Is the inspection result normal?

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

2.ERASE DTC

1. Connect right front door control unit and front door lock assembly connector.
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “Right front door control unit” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-105, "RH : DTC Description".

Is DTC “B18B1-01” detected?

YES >> GO TO 3.
NO >> INSPECTION END

3.REPLACE FRONT DOOR LOCK ASSEMBLY AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace front door lock assembly (passenger side). Refer to DLK-265, "DOOR LOCK : Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “Right front door control unit” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-105, "RH : DTC Description".

Is DTC “B18B1-01” detected?

YES >> Replace left front door control unit. Refer to DLK-286, "Removal and Installation".
NO >> INSPECTION END

DTC “B18B1-13”

1.CHECK DOOR LOCK ACTUATOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect right front door control unit and front door lock assembly connector.
3. Check continuity between right front door control unit harness connector and front door lock assembly harness connector.

Right front door control unit		Front door lock assembly (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	
D58	36	D69	1	Existed
	37		2	

Is the inspection result normal?

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

2.ERASE DTC

1. Connect right front door control unit and front door lock assembly connector.
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “Right front door control unit” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-105, "RH : DTC Description".

Is DTC “B18B1-13” detected?

YES >> GO TO 3.
NO >> INSPECTION END

3.REPLACE FRONT DOOR LOCK ASSEMBLY AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace front door lock assembly (passenger side). Refer to DLK-265, "DOOR LOCK : Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “Right front door control unit” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-105, "RH : DTC Description".

Is DTC “B18B1-13” detected?

YES >> Replace right front door control unit. Refer to DLK-286, "Removal and Installation".
NO >> INSPECTION END

B1936 DOOR LOCK AND UNLOCK SWITCH
LH

LH : DTC Description

INFOID:0000000013550018

DTC DETECTION LOGIC

DTC		CONSULT screen items		DTC detecting condition	
		(Trouble diagnosis content)	[Malfunction type]		
B1936	2A	Door lock and unlock switch	[SIGNAL STUCK IN RANGE]	Diagnosis condition	All times
				Signal (terminal)	Door lock/unlock switch signal
				Threshold	The door lock and unlock switch has a malfunction. There is no signal change (ON stuck).
				Diagnosis delay time	25 sec.

POSSIBLE CAUSE
- Harness or connectors (door lock and unlock switch)
- Door lock and unlock switch (button is stuck or internal defect)
- Left front door control unit

FAIL-SAFE
Inhibit door lock and unlock switch operation

DTC CONFIRMATION PROCEDURE
1.PERFORM DTC CONFIRMATION PROCEDURE
1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “Left front door control unit” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-108, "LH : Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

LH : Diagnosis Procedure

INFOID:0000000013550019

1.CHECK SELF DIAGNOSTIC RESULT
Check DTC using CONSULT.

What is the display history of DTC “B1936-2A”?

“PAST” >> GO TO 2.
“CRNT”>> GO TO 3.

2.ERASE DTC
1. Select “Self Diagnostic Result” mode of “Left front door control unit” using CONSULT.
2. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-108, "LH : DTC Description".

Is DTC “B1936-2A” detected?

YES >> GO TO 3.
NO >> Check intermittent incident. Refer to GI-56, "Intermittent Incident".

3.CHECK DOOR LOCK AND UNLOCK SWITCH OPERATION
Check door lock and unlock switch operation is normal.

Is the inspection result normal?

YES >> GO TO 4.

NO >> GO TO 7.

4. CHECK DOOR LOCK AND UNLOCK SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Check voltage between door lock and unlock switch harness connector and ground.

(+)		(–)	Condition		Voltage (Approx.)
Door lock and unlock switch					
Connector	Terminal				
D1	1	Ground	Door lock	Operating	0 V
				Other than above	12 V

Is the inspection result normal?

YES >> Replace left front door control unit. Refer to DLK-286, "Removal and Installation".
NO >> GO TO 5.

5. CHECK FRONT DOOR CONTROL UNIT OUTPUT SIGNAL

1. Disconnect door lock and unlock switch connector
2. Check voltage between door lock and unlock switch harness connector and ground.

(+)		(–)	Voltage (Approx.)
Door lock and unlock switch			
Connector	Terminal		
D1	1	Ground	12 V

Is the inspection result normal?

YES >> GO TO 7.
NO >> GO TO 6.

6. CHECK FRONT DOOR CONTROL UNIT OUTPUT SIGNAL CIRCUIT

1. Disconnect left front door control unit connector
2. Check continuity between left front door control unit harness connector and ground.

Door lock and unlock switch		Ground	Continuity
Connector	Terminal		
D1	1		Not existed

Is the inspection result normal?

YES >> Replace left front door control unit. Refer to DLK-286, "Removal and Installation".
NO >> Repair or replace harness or connector.

7. REPLACE DOOR LOCK AND UNLOCK SWITCH AND ERASE DTC

1. Replace door lock and unlock switch. Refer to DLK-279, "Removal and Installation".
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “Left front door control unit” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-108, "LH : DTC Description".

Is DTC “B1936-2A” detected?

YES >> Replace left front door control unit. Refer to DLK-286, "Removal and Installation".
NO >> INSPECTION END

RH

RH : DTC Description

INFOID:0000000013550020

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B1936	2A	Door lock and unlock switch	[SIGNAL STUCK IN RANGE]	Diagnosis condition	All times
				Signal (terminal)	Door lock/unlock switch signal
				Threshold	The door lock and unlock switch has a malfunction. There is no signal change (ON stuck).
				Diagnosis delay time	25 sec.

POSSIBLE CAUSE

- Harness or connectors (door lock and unlock switch)
- Door lock and unlock switch (button is stuck or is internal defect)
- Right front door control unit

FAIL-SAFE

Inhibit door lock and unlock switch operation

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “Right front door control unit” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-110, "RH : Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

RH : Diagnosis Procedure

INFOID:0000000013550021

1.CHECK SELF DIAGNOSTIC RESULT

Check DTC using CONSULT.

What is the display history of DTC “B1936-2A”?

“PAST” >> GO TO 2.
“CRNT”>> GO TO 3.

2.ERASE DTC

1. Select “Self Diagnostic Result” mode of “Right front door control unit” using CONSULT.
2. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-109, "RH : DTC Description".

Is DTC “B1936-2A” detected?

YES >> GO TO 3.
NO >> Check intermittent incident. Refer to GI-56, "Intermittent Incident".

3.CHECK DOOR LOCK AND UNLOCK SWITCH OPERATION

Check door lock and unlock switch operation is normal.

Is the inspection result normal?

YES >> GO TO 4.
NO >> GO TO 7.

4.CHECK DOOR LOCK AND UNLOCK SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Check voltage between door lock and unlock switch harness connector and ground.

(+)		(–)	Condition		Voltage (Approx.)
Door lock and unlock switch					
Connector	Terminal				
D51	1	Ground	Door lock	Operating	0 V
				Other than above	12 V

Is the inspection result normal?

YES >> Replace right front door control unit. Refer to DLK-286, "Removal and Installation".
NO >> GO TO 5.

5.CHECK FRONT DOOR CONTROL UNIT OUTPUT SIGNAL

1. Disconnect door lock and unlock switch connector
2. Check voltage between door lock and unlock switch harness connector and ground.

(+)		(–)	Voltage (Approx.)
Door lock and unlock switch			
Connector	Terminal		
D51	1	Ground	12 V

Is the inspection result normal?

YES >> GO TO 7.
NO >> GO TO 6.

6.CHECK FRONT DOOR CONTROL UNIT OUTPUT SIGNAL CIRCUIT

1. Disconnect right front door control unit connector
2. Check continuity between right front door control unit harness connector and ground.

Door lock and unlock switch		Ground	Continuity
Connector	Terminal		
D51	1		Not existed

Is the inspection result normal?

YES >> Replace right front door control unit. Refer to DLK-286, "Removal and Installation".
NO >> Repair or replace harness or connector.

7.REPLACE DOOR LOCK AND UNLOCK SWITCH AND ERASE DTC

1. Replace door lock and unlock switch. Refer to DLK-279, "Removal and Installation".
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “Right front door control unit” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-109, "RH : DTC Description".

Is DTC “B1936-2A” detected?

YES >> Replace right front door control unit. Refer to DLK-286, "Removal and Installation".
NO >> INSPECTION END

B210A FRONT DOOR CONTROL UNIT
LH

LH : DTC Description

INFOID:0000000013550022

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B210A	00	Power supply circuit	[NO SUBTYPE INFO]	Diagnosis condition	No engine start and wait 5 seconds or more
				Signal (terminal)	Power supply signal
				Threshold	The power supply voltage in the system is too low (8.5 V or less)
				Diagnosis delay time	15 sec.

POSSIBLE CAUSE
- Harness or connectors (left front door control unit)
- Battery discharged

FAIL-SAFE
Inhibit left front door control unit controls function

DTC CONFIRMATION PROCEDURE
1.PERFORM DTC CONFIRMATION PROCEDURE
1. Turn ignition switch OFF and wait 5 seconds or more.
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “Left front door control unit” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-112, "LH : Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

LH : Diagnosis Procedure

INFOID:0000000013550023

1.CHECK BATTERY VOLTAGE
Measure the battery voltage.

Is the inspection result normal?

YES >> GO TO 2.
NO >> Perform battery inspection. Refer to PG-102, "MAIN BATTERY : How to Handle Battery".

2.CHECK FUSE
1. Turn ignition switch OFF.
2. Check that the following fuse is not blown.

Signal name	Fuse No.
Battery power supply	23 (30 A)

Is the inspection result normal?

YES >> GO TO 3.
NO >> Replace the blown fuse after repairing the affected circuit if a fuse is blown.

3.CHECK FRONT DOOR CONTROL UNIT POWER SUPPLY CIRCUIT
1. Disconnect left front door control unit connector.
2. Check voltage between left front door control unit harness connector and ground.

(+)		(–)	Voltage (Approx.)
Left front door control unit			
Connector	Terminal		
D12	25	Ground	12 V

Is the inspection result normal?

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

4.CHECK GROUND CIRCUIT

Check continuity between left front door control unit harness connector and ground.

Left front door control unit		Ground	Continuity
Connector	Terminal		
D12	24		Existed

Is the inspection result normal?

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

RH

RH : DTC Description

INFOID:0000000013550024

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B210A	00	Power supply circuit	[NO SUBTYPE INFO]	Diagnosis condition	No engine start and wait 5 seconds or more
				Signal (terminal)	Power supply signal
				Threshold	The power supply voltage in the system is too low (8.5 V or less)
				Diagnosis delay time	15 sec.

POSSIBLE CAUSE

- Harness or connectors (right front door control unit)
- Battery discharged

FAIL-SAFE

Inhibit right front door control unit controls function

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch OFF and wait 5 seconds or more.
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “Right front door control unit” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-113, "RH : Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

RH : Diagnosis Procedure

INFOID:0000000013550025

1.CHECK BATTERY VOLTAGE

Measure the battery voltage.

Is the inspection result normal?

YES >> GO TO 2.
NO >> Perform battery inspection. Refer to PG-102, "MAIN BATTERY : How to Handle Battery".

2.CHECK FUSE

1. Turn ignition switch OFF.
2. Check that the following fuse is not blown.

Signal name	Fuse No.
Battery power supply	24 (30 A)

Is the inspection result normal?

YES >> GO TO 3.
NO >> Replace the blown fuse after repairing the affected circuit if a fuse is blown.

3.CHECK FRONT DOOR CONTROL UNIT POWER SUPPLY CIRCUIT

1. Disconnect right front door control unit connector.
2. Check voltage between right front door control unit harness connector and ground.

(+)		(–)	Voltage (Approx.)
Right front door control unit			
Connector	Terminal		
D55	25	Ground	12 V

Is the inspection result normal?

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

4.CHECK GROUND CIRCUIT

Check continuity between right front door control unit harness connector and ground.

Right front door control unit		Ground	Continuity
Connector	Terminal		
D55	24		Existed

Is the inspection result normal?

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

B210B FRONT DOOR CONTROL UNIT
LH

LH : DTC Description

INFOID:0000000013550026

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B210B	00	Power supply circuit	[NO SUBTYPE INFO]	Diagnosis condition	No engine start and wait 5 seconds or more
				Signal (terminal)	Power supply signal
				Threshold	The power supply in the system is too high (16 V or more).
				Diagnosis delay time	15 sec.

POSSIBLE CAUSE
Harness or connector (left front door control unit)

FAIL-SAFE
Inhibit left front door control unit controls function

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch OFF and wait 5 seconds or more.
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “Left front door control unit” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-115, "LH : Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

LH : Diagnosis Procedure

INFOID:0000000013550027

1. CHECK SELF DIAGNOSTIC RESULT

Check DTC using CONSULT.

What is the display history of DTC “B210B-00”?

“PAST” >> GO TO 2.
“CRNT”>> GO TO 3.

2. ERASE DTC

1. Select “Self Diagnostic Result” mode of “Left front door control unit” using CONSULT.
2. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-115, "LH : DTC Description".

Is DTC “B210B-00” detected?

YES >> GO TO 3.
NO >> Check intermittent incident. Refer to GI-56, "Intermittent Incident".

3. CHECK BATTERY VOLTAGE

1. Turn ignition switch OFF.
2. Measure the battery voltage.

Is the inspection result normal?

YES >> GO TO 4.
NO >> Perform battery inspection. Refer to PG-102, "MAIN BATTERY : How to Handle Battery".

4.CHECK FRONT DOOR CONTROL UNIT POWER SUPPLY CIRCUIT

1. Disconnect left front door control unit connector.
2. Check voltage between left front door control unit harness connector and ground.

(+)		(–)	Voltage (Approx.)
Left front door control unit			
Connector	Terminal		
D12	25	Ground	12 V

Is the inspection result normal?

YES >> Replace left front door control unit. Refer to DLK-286, "Removal and Installation".
NO >> Repair or replace harness.

RH

RH : DTC Description

INFOID:0000000013550028

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B210B	00	Power supply circuit	[NO SUBTYPE INFO]	Diagnosis condition	No engine start and wait 5 seconds or more
				Signal (terminal)	Power supply signal
				Threshold	The power supply in the system is too high (16 V or more).
				Diagnosis delay time	15 sec.

POSSIBLE CAUSE

Harness or connector (right front door control unit)

FAIL-SAFE

Inhibit right front door control unit controls function

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch OFF and wait 5 seconds or more.
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “Right front door control unit” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-116, "RH : Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

RH : Diagnosis Procedure

INFOID:0000000013550029

1.CHECK SELF DIAGNOSTIC RESULT

Check DTC using CONSULT.

What is the display history of DTC “B210B-00”?

“PAST” >> GO TO 2.
“CRNT”>> GO TO 3.

2.ERASE DTC

1. Select “Self Diagnostic Result” mode of “Right front door control unit” using CONSULT.

2. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-116, "RH : DTC Description".

Is DTC “B210B-00” detected?

YES >> GO TO 3.
NO >> Check intermittent incident. Refer to GI-56, "Intermittent Incident".

3.CHECK BATTERY VOLTAGE

1. Turn ignition switch OFF.
2. Measure the battery voltage.

Is the inspection result normal?

YES >> GO TO 4.
NO >> Perform battery inspection. Refer to PG-102, "MAIN BATTERY : How to Handle Battery".

4.CHECK FRONT DOOR CONTROL UNIT POWER SUPPLY CIRCUIT

1. Disconnect right front door control unit connector.
2. Check voltage between right front door control unit harness connector and ground.

(+)		(–)	Voltage (Approx.)
Right front door control unit			
Connector	Terminal		
D55	25	Ground	12 V

Is the inspection result normal?

YES >> Replace right front door control unit. Refer to DLK-286, "Removal and Installation".
NO >> Repair or replace harness.

B210C FRONT DOOR CONTROL UNIT
LH

LH : DTC Description

INFOID:0000000013550030

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B210C	16	Power supply circuit	[CIRC VOLT BELOW THRESHOLD]	Diagnosis condition	No engine start and wait 5 seconds or more
				Signal (terminal)	Power supply signal
				Threshold	The power supply is outside the valid range. The limit value for electrical voltage has not been attained (8.5V or less).
				Diagnosis delay time	–
	17		[CIRC VOLT ABOVE THRESHOLD]	Diagnosis condition	No engine start and wait 5 seconds or more
				Signal (terminal)	Power supply signal
				Threshold	The power supply is outside the valid range. The limit value for electrical voltage has been exceeded (16.5 V or more).
				Diagnosis delay time	–

POSSIBLE CAUSE (B210C-16)
- Harness or connector (left front door control unit)
- Battery discharged

POSSIBLE CAUSE (B210C-17)
Harness or connector (left front door control unit)

FAIL-SAFE
Inhibit left front door control unit controls function

DTC CONFIRMATION PROCEDURE
1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch OFF and wait 5 seconds or more.
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “Left front door control unit” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-118, "LH : Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

LH : Diagnosis Procedure

INFOID:0000000013550031

DTC “B210C-16”
1.CHECK SELF DIAGNOSTIC RESULT

Check DTC using CONSULT.

What is the display history of DTC “B210C-16”?

“PAST” >> GO TO 2.
“CRNT”>> GO TO 3.

2.ERASE DTC

1. Select “Self Diagnostic Result” mode of “Left front door control unit” using CONSULT.
2. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-118, "LH : DTC Description".

Is DTC “B210C-16” detected?

YES >> GO TO 3.
NO >> Check intermittent incident. Refer to GI-56, "Intermittent Incident".

3.CHECK BATTERY VOLTAGE

1. Turn ignition switch OFF.
2. Measure the battery voltage.

Is the inspection result normal?

YES >> GO TO 4.
NO >> Perform battery inspection. Refer to PG-102, "MAIN BATTERY : How to Handle Battery".

4.CHECK FRONT DOOR CONTROL UNIT POWER SUPPLY CIRCUIT

1. Disconnect left front door control unit connector.
2. Check voltage between left front door control unit harness connector and ground.

(+)		(–)	Voltage (Approx.)
Left front door control unit			
Connector	Terminal		
D12	25	Ground	12 V

Is the inspection result normal?

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

5.CHECK FRONT DOOR CONTROL UNIT GROUND CIRCUIT

Check continuity between left front door control unit harness connector and ground.

Left front door control unit		Ground	Continuity
Connector	Terminal		
D12	24		Existed

Is the inspection result normal?

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

DTC “B210C-17”

1.CHECK SELF DIAGNOSTIC RESULT

Check DTC using CONSULT.

What is the display history of DTC “B210C-17”?

“PAST” >> GO TO 2.
“CRNT”>> GO TO 3.

2.ERASE DTC

1. Select “Self Diagnostic Result” mode of “Left front door control unit” using CONSULT.
2. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-118, "LH : DTC Description".

Is DTC “B210C-17” detected?

YES >> GO TO 3.
NO >> Check intermittent incident. Refer to GI-56, "Intermittent Incident".

3.CHECK BATTERY VOLTAGE

1. Turn ignition switch OFF.

2. Measure the battery voltage.

Is the inspection result normal?

YES >> GO TO 4.
NO >> Perform battery inspection. Refer to PG-102, "MAIN BATTERY : How to Handle Battery".

4.CHECK FRONT DOOR CONTROL UNIT POWER SUPPLY CIRCUIT

1. Disconnect left front door control unit connector.
2. Check voltage between left front door control unit harness connector and ground.

(+)		(–)	Voltage (Approx.)
Left front door control unit			
Connector	Terminal		
D12	25	Ground	12 V

Is the inspection result normal?

YES >> Replace left front door control unit. Refer to DLK-286, "Removal and Installation".
NO >> Repair or replace harness.

RH

RH : DTC Description

INFOID:0000000013550032

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B210C	16	Power supply circuit	[CIRC VOLT BELOW THRESHOLD]	Diagnosis condition	No engine start and wait 5 seconds or more
				Signal (terminal)	Power supply signal
				Threshold	The power supply is outside the valid range. The limit value for electrical voltage has not been attained (8.5V or less).
				Diagnosis delay time	–
	17		[CIRC VOLT ABOVE THRESHOLD]	Diagnosis condition	No engine start and wait 5 seconds or more
				Signal (terminal)	Power supply signal
				Threshold	The power supply is outside the valid range. The limit value for electrical voltage has been exceeded (16.5 V or more).
				Diagnosis delay time	–

POSSIBLE CAUSE (B210C-16)

- Harness or connector (right front door control unit)
- Battery discharged

POSSIBLE CAUSE (B210C-17)

Harness or connector (right front door control unit)

FAIL-SAFE

Inhibit right front door control unit controls function

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch OFF and wait 5 seconds or more.
2. Turn ignition switch ON.

3. Select “Self Diagnostic Result” mode of “Right front door control unit” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-121, "RH : Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

RH : Diagnosis Procedure

INFOID:0000000013550033

DTC “B210C-16”

1.CHECK SELF DIAGNOSTIC RESULT

Check DTC using CONSULT.

What is the display history of DTC “B210C-16”?

“PAST” >> GO TO 2.
“CRNT”>> GO TO 3.

2.ERASE DTC

1. Select “Self Diagnostic Result” mode of “Right front door control unit” using CONSULT.
2. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-120, "RH : DTC Description".

Is DTC “B210C-16” detected?

YES >> GO TO 3.
NO >> Check intermittent incident. Refer to GI-56, "Intermittent Incident".

3.CHECK BATTERY VOLTAGE

1. Turn ignition switch OFF.
2. Measure the battery voltage.

Is the inspection result normal?

YES >> GO TO 4.
NO >> Perform battery inspection. Refer to PG-102, "MAIN BATTERY : How to Handle Battery".

4.CHECK FRONT DOOR CONTROL UNIT POWER SUPPLY CIRCUIT

1. Disconnect right front door control unit connector.
2. Check voltage between right front door control unit harness connector and ground.

(+)		(−)	Voltage (Approx.)
Right front door control unit			
Connector	Terminal		
D55	25	Ground	12 V

Is the inspection result normal?

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

5.CHECK FRONT DOOR CONTROL UNIT GROUND CIRCUIT

Check continuity between right front door control unit harness connector and ground.

Right front door control unit		Ground	Continuity
Connector	Terminal		
D55	24		Existed

Is the inspection result normal?

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

DTC “B210C-17”

1.CHECK SELF DIAGNOSTIC RESULT

Check DTC using CONSULT.

What is the display history of DTC “B210C-17”?

“PAST” >> GO TO 2.
“CRNT”>> GO TO 3.

2.ERASE DTC

1. Select “Self Diagnostic Result” mode of “Right front door control unit” using CONSULT.
2. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-120, "RH : DTC Description".

Is DTC “B210C-17” detected?

YES >> GO TO 3.
NO >> Check intermittent incident. Refer to GI-56, "Intermittent Incident".

3.CHECK BATTERY VOLTAGE

1. Turn ignition switch OFF.
2. Measure the battery voltage.

Is the inspection result normal?

YES >> GO TO 4.
NO >> Perform battery inspection. Refer to PG-102, "MAIN BATTERY : How to Handle Battery".

4.CHECK FRONT DOOR CONTROL UNIT POWER SUPPLY CIRCUIT

1. Disconnect right front door control unit connector.
2. Check voltage between right front door control unit harness connector and ground.

(+)		(–)	Voltage (Approx.)
Right front door control unit			
Connector	Terminal		
D55	25	Ground	12 V

Is the inspection result normal?

YES >> Replace right front door control unit. Refer to DLK-286, "Removal and Installation".
NO >> Repair or replace harness.

B217E FRONT DOOR CONTROL UNIT
LH

LH : DTC Description

INFOID:0000000013550034

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	DTC
B217E	11	Power supply circuit	[CIRC SHORT TO GRND]	Diagnosis condition	All times
				Signal (terminal)	• Power window switch signal • Left seat switch signal
				Threshold	The power supply to the LIN bus subscribers has a malfunction. There is a short circuit to ground.
				Diagnosis delay time	–

POSSIBLE CAUSE

- Short to ground between circuit of left front door control unit, power window main switch and left front seat adjustment switch group
- Power window main switch
- Left front seat adjustment switch group
- Left front door control unit

FAIL-SAFE

Inhibit power window main switch and left front seat adjustment switch group operation

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “Left front door control unit” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-123, "LH : Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

LH : Diagnosis Procedure

INFOID:0000000013550035

1. CHECK LIN COMMUNICATION CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect left front door control unit, power window main switch and left front seat adjustment switch group connector.
3. Check voltage between left front door control unit harness connector and ground.

(+)		(–)	Voltage (Approx.)
Left front door control unit			
Connector	Terminal		
D16	41	Ground	0 V
	42		
D17	56		
	58		

4. Check continuity between left front door control unit harness connector and ground.

Left front door control unit		Ground	Continuity
Connector	Terminal		
D16	41		Not existed
	42		
D17	56		
	58		

Is the inspection result normal?

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

2.ERASE DTC

1. Connect left front door control unit, power window main switch and left front seat adjustment switch group connector.
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “Left front door control unit” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-123, "LH : DTC Description".

Is DTC “B217E-11” detected?

YES >> GO TO 3.
NO >> INSPECTION END

3.REPLACE LEFT FRONT SEAT ADJUSTMENT SWITCH GROUP AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace left front seat adjustment switch group. Refer to ADP-114, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “Left front door control unit” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-123, "LH : DTC Description".

Is DTC “B217E-11” detected?

YES >> GO TO 4.
NO >> INSPECTION END

4.REPLACE POWER WINDOW MAIN SWITCH AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace power window main switch. Refer to PWC-89, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “Left front door control unit” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-123, "LH : DTC Description".

Is DTC “B217E-11” detected?

YES >> Replace left front door control unit. Refer to DLK-286, "Removal and Installation".
NO >> INSPECTION END

RH

RH : DTC Description

INFOID:0000000013550036

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	DTC
B217E	11	Power supply circuit	[CIRC SHORT TO GRND]	Diagnosis condition	All times
				Signal (terminal)	• Power window switch signal • Right seat switch signal
				Threshold	The power supply to the LIN bus subscribers has a malfunction. There is a short circuit to ground.
				Diagnosis delay time	–

POSSIBLE CAUSE

- Short to ground between circuit of right front door control unit, power window main switch and right front seat adjustment switch group
- Right front seat adjustment switch group
- Right front door control unit

FAIL-SAFE

Inhibit right front seat adjustment switch group operation

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “Right front door control unit” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-125, "RH : Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

RH : Diagnosis Procedure

INFOID:0000000013550037

1.CHECK LIN COMMUNICATION CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect right front door control unit and right front seat adjustment switch group connector.
3. Check voltage between right front door control unit harness connector and ground.

(+)		(–)	Voltage (Approx.)
Right front door control unit			
Connector	Terminal		
D60	56	Ground	0 V
	58		

4. Check continuity between right front door control unit harness connector and ground.

Right front door control unit		Ground	Continuity
Connector	Terminal		
D60	56		Not existed
	58		

Is the inspection result normal?

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

2.ERASE DTC

1. Connect right front door control unit and right front seat adjustment switch group connector.
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “Right front door control unit” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-124, "RH : DTC Description".

Is DTC “B217E-11” detected?

YES >> GO TO 3.
NO >> INSPECTION END

3.REPLACE RIGHT FRONT SEAT ADJUSTMENT SWITCH GROUP AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace right front seat adjustment switch group. Refer to ADP-114, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “Right front door control unit” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-124, "RH : DTC Description".

Is DTC “B217E-11” detected?

YES >> Replace right front door control unit. Refer to DLK-286, "Removal and Installation".
NO >> INSPECTION END

B2206 FRONT DOOR CONTROL UNIT

LH

LH : DTC Description

INFOID:0000000013550038

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B2206	00	Vehicle identification number	[NO SUBTYPE INFO]	Diagnosis condition	CAN communication: active
				Signal (terminal)	–
				Threshold	Actual VIN doesn't match the stored Original-VIN
				Diagnosis delay time	10 sec.

POSSIBLE CAUSE

VIN in vehicle changed or assembly in another vehicle installed.

FAIL-SAFE

–

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “Left front door control unit” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-127, "LH : Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

LH : Diagnosis Procedure

INFOID:0000000013550039

1. REPLACE FRONT DOOR CONTROL UNIT

When DTC “B2206-00” is detected, replace left front door control unit.

>> Replace left front door control unit. Refer to DLK-286, "Removal and Installation".

RH

RH : DTC Description

INFOID:0000000013550040

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B2206	00	Vehicle identification number	[NO SUBTYPE INFO]	Diagnosis condition	CAN communication: active
				Signal (terminal)	–
				Threshold	Actual VIN doesn't match the stored Original-VIN
				Diagnosis delay time	10 sec.

POSSIBLE CAUSE

VIN in vehicle changed or assembly in another vehicle installed.

FAIL-SAFE

–

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “Right front door control unit” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-128, "RH : Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

RH : Diagnosis Procedure

INFOID:0000000013550041

1.REPLACE FRONT DOOR CONTROL UNIT

When DTC “B2206-00” is detected, replace right front door control unit.

>> Replace right front door control unit. Refer to DLK-286, "Removal and Installation".

B223B FRONT DOOR CONTROL UNIT

LH

LH : DTC Description

INFOID:0000000013550042

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B223B	00	Configuration	[NO SUBTYPE INFO]	Diagnosis condition	CAN communication: active
				Signal (terminal)	–
				Threshold	There is a error in the vehicle configuration work
				Diagnosis delay time	5 sec.

POSSIBLE CAUSE

Configuration work of left front door control unit

FAIL-SAFE

–

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “Left front door control unit” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-129, "LH : Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

LH : Diagnosis Procedure

INFOID:0000000013550043

1. CONFIGURATION WORK OF FRONT DOOR CONTROL UNIT

1. Perform configuration work of left front door control unit. Refer to DLK-100, "Description".
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “Left front door control unit” using CONSULT.
4. Erase DTC, and then repeat “PERFORM DTC CONFIRMATION PROCEDURE”. Refer to DLK-129, "LH : DTC Description".

Is DTC “B223B-00” detected?

YES >> Replace left front door control unit. Refer to DLK-286, "Removal and Installation".
NO >> INSPECTION END

RH

RH : DTC Description

INFOID:0000000013550044

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B223B	00	Configuration	[NO SUBTYPE INFO]	Diagnosis condition	CAN communication: active
				Signal (terminal)	–
				Threshold	There is a error in the vehicle configuration work
				Diagnosis delay time	5 sec.

POSSIBLE CAUSE

Configuration work of right front door control unit

FAIL-SAFE

–

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “Right front door control unit” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-130, "RH : Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

RH : Diagnosis Procedure

INFOID:0000000013550045

1.CONFIGURATION WORK OF FRONT DOOR CONTROL UNIT

1. Perform configuration work of right front door control unit. Refer to DLK-100, "Description".
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “Right front door control unit” using CONSULT.
4. Erase DTC, and then repeat “PERFORM DTC CONFIRMATION PROCEDURE”. Refer to DLK-129, "RH : DTC Description".

Is DTC “B223B-00” detected?

YES >> Replace right front door control unit. Refer to DLK-286, "Removal and Installation".
NO >> INSPECTION END

B224F FRONT DOOR CONTROL UNIT

LH

LH : DTC Description

INFOID:0000000013550046

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B224F	41	Door control unit	[GENERAL CHECKSUM FAILURE]	Diagnosis condition	All times
				Signal (terminal)	–
				Threshold	Left front door control has a malfunction. There is a general checksum error.
				Diagnosis delay time	–
	49		[INTERNAL ELECTRONIC FAILURE]	Diagnosis condition	All times
				Signal (terminal)	–
				Threshold	Left front door control has a malfunction. There is an internal electrical error.
				Diagnosis delay time	500 msec
	78		[ALIGNMENT OR ADJUSTMENT INCORRECT]	Diagnosis condition	All times
				Signal (terminal)	–
				Threshold	Left front door control has a malfunction. The adaptation or adjustment is incorrect.
				Diagnosis delay time	40 msec

POSSIBLE CAUSE

Left front door control unit

FAIL-SAFE

–

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “Left front door control unit” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-131, "LH : Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

LH : Diagnosis Procedure

INFOID:0000000013550047

1. REPLACE FRONT DOOR CONTROL UNIT

When DTC “B224F-41” or “B224F-49” or “B224F-78” is detected, replace left front door control unit.

>> Replace left front door control unit. Refer to DLK-286, "Removal and Installation".

RH

RH : DTC Description

INFOID:0000000013550048

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B224F	41	Door control unit	[GENERAL CHECKSUM FAILURE]	Diagnosis condition	All times
				Signal (terminal)	–
				Threshold	Right front door control has a malfunction. There is a general checksum error.
				Diagnosis delay time	–
	49		[INTERNAL ELECTRONIC FAILURE]	Diagnosis condition	All times
				Signal (terminal)	–
				Threshold	Right front door control has a malfunction. There is an internal electrical error.
				Diagnosis delay time	500 msec
	78		[ALIGNMENT OR ADJUSTMENT INCORRECT]	Diagnosis condition	All times
				Signal (terminal)	–
				Threshold	Right front door control has a malfunction. The adaptation or adjustment is incorrect.
				Diagnosis delay time	40 msec

POSSIBLE CAUSE

Right front door control unit

FAIL-SAFE

–

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “Right front door control unit” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-132, "RH : Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

RH : Diagnosis Procedure

INFOID:0000000013550049

1.REPLACE FRONT DOOR CONTROL UNIT

When DTC “B224F-41” or “B224F-49” or “B224F-78” is detected, replace right front door control unit.

>> Replace right front door control unit. Refer to DLK-286, "Removal and Installation".

U0141 BCM

LH

LH : DTC Description

INFOID:0000000013550050

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
U0141	87	Communication error	[MISSING MESSAGE]	Diagnosis condition	CAN communication: active
				Signal (terminal)	–
				Threshold	BCM does not transmit signal on the CAN communication.
				Diagnosis delay time	–

POSSIBLE CAUSE

- CAN communication
- BCM

FAIL-SAFE

–

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “Left front door control unit” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-133, "LH : Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

LH : Diagnosis Procedure

INFOID:0000000013550051

1.CHECK DTC WITH BCM

Check that DTC is not detected with BCM.

Is the inspection result normal?

YES >> GO TO 2.
NO >> Refer to BCS-51, "DTC Index".

2.CHECK CAN COMMUNICATION SYSTEM DIAGNOSIS

Perform the trouble diagnosis for CAN communication system. Refer to LAN-58, "Trouble Diagnosis Flow Chart".

Is the inspection result normal?

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

3.REPLACE BCM AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace BCM. Refer to BCS-248, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “Left front door control unit” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-133, "LH : DTC Description".

Is DTC “U0141-87” detected?

YES >> Replace left front door control unit. Refer to DLK-286, "Removal and Installation".
NO >> INSPECTION END

RH

RH : DTC Description

INFOID:0000000013550052

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
U0141	87	Communication error	[MISSING MESSAGE]	Diagnosis condition	CAN communication: active
				Signal (terminal)	–
				Threshold	BCM does not transmit signal on the CAN communication.
				Diagnosis delay time	–

POSSIBLE CAUSE

- CAN communication
- BCM

FAIL-SAFE

–

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “Right front door control unit” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-134, "RH : Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

RH : Diagnosis Procedure

INFOID:0000000013550053

1.CHECK DTC WITH BCM

Check that DTC is not detected with BCM.

Is the inspection result normal?

YES >> GO TO 2.
NO >> Refer to BCS-51, "DTC Index".

2.CHECK CAN COMMUNICATION SYSTEM DIAGNOSIS

Perform the trouble diagnosis for CAN communication system. Refer to LAN-58, "Trouble Diagnosis Flow Chart".

Is the inspection result normal?

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

3.REPLACE BCM AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace BCM. Refer to BCS-248, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “Right front door control unit” using CONSULT.

5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-134, "RH : DTC Description".

Is DTC “U0141-87” detected?

YES >> Replace right front door control unit. Refer to DLK-286, "Removal and Installation".
NO >> INSPECTION END

U0168 FRONT DOOR CONTROL UNIT

LH

LH : DTC Description

INFOID:0000000013550054

DTC DETECTION LOGIC

DTC		CONSULT screen items		DTC detecting condition	
		(Trouble diagnosis content)	[Malfunction type]		
U0168	87	COMMUNICATION ERROR (LOST)	[MISSING MESSAGE]	Diagnosis condition	CAN communication: active
				Signal (terminal)	–
				Threshold	Electronic ignition switch control unit does not transmit signal on the CAN communication.
				Diagnosis delay time	–

POSSIBLE CAUSE

- CAN communication
- Electronic ignition switch control unit

FAIL-SAFE

–

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “Left front door control unit” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-136, "LH : Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

LH : Diagnosis Procedure

INFOID:0000000013550055

1.CHECK DTC WITH ELECTRONIC IGNITION SWITCH CONTROL UNIT

Check that DTC is not detected with electronic ignition switch control unit.

Is the inspection result normal?

YES >> GO TO 2.
NO >> Refer to PCS-12, "DTC Index".

2.CHECK CAN COMMUNICATION SYSTEM DIAGNOSIS

Perform the trouble diagnosis for CAN communication system. Refer to LAN-58, "Trouble Diagnosis Flow Chart".

Is the inspection result normal?

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

3.REPLACE ELECTRONIC IGNITION SWITCH CONTROL UNIT AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace electronic ignition switch control unit. Refer to PCS-47, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “Left front door control unit” using CONSULT.

5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-136, "LH : DTC Description".

Is DTC “U0168-87” detected?

YES >> Replace left front door control unit. Refer to DLK-286, "Removal and Installation".
NO >> INSPECTION END

RH

RH : DTC Description

INFOID:0000000013550056

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
U0168	87	COMMUNICATION ERROR (LOST)	[MISSING MESSAGE]	Diagnosis condition	CAN communication: active
				Signal (terminal)	–
				Threshold	Electronic ignition switch control unit does not transmit signal on the CAN communication.
				Diagnosis delay time	–

POSSIBLE CAUSE

- CAN communication
- Electronic ignition switch control unit

FAIL-SAFE

–

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “Right front door control unit” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-137, "RH : Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

RH : Diagnosis Procedure

INFOID:0000000013550057

1.CHECK DTC WITH ELECTRONIC IGNITION SWITCH CONTROL UNIT

Check that DTC is not detected with electronic ignition switch control unit.

Is the inspection result normal?

YES >> GO TO 2.
NO >> Refer to PCS-12, "DTC Index".

2.CHECK CAN COMMUNICATION SYSTEM DIAGNOSIS

Perform the trouble diagnosis for CAN communication system. Refer to LAN-58, "Trouble Diagnosis Flow Chart".

Is the inspection result normal?

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

3.REPLACE ELECTRONIC IGNITION SWITCH CONTROL UNIT AND ERASE DTC

1. Turn ignition switch OFF.

2. Replace electronic ignition switch control unit. Refer to PCS-47, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “Right front door control unit” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-137, "RH : DTC Description".

Is DTC “U0168-87” detected?

YES >> Replace right front door control unit. Refer to DLK-286, "Removal and Installation".
NO >> INSPECTION END

U0203 FRONT DOOR CONTROL UNIT

LH

LH : DTC Description

INFOID:0000000013550058

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
U0203	87	Communication error	[MISSING MESSAGE]	Diagnosis condition	CAN communication: active
				Signal (terminal)	–
				Threshold	Left front door control unit does not transmit signal on the CAN communication.
				Diagnosis delay time	–

POSSIBLE CAUSE

- CAN communication
- Left front door control unit

FAIL-SAFE

–

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “Left front door control unit” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-139, "LH : Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

LH : Diagnosis Procedure

INFOID:0000000013550059

1.CHECK CAN COMMUNICATION SYSTEM DIAGNOSIS

Perform the trouble diagnosis for CAN communication system. Refer to LAN-58, "Trouble Diagnosis Flow Chart".

Is the inspection result normal?

YES >> Replace left front door control unit. Refer to DLK-286, "Removal and Installation".
NO >> Repair or replace harness.

RH

RH : DTC Description

INFOID:0000000013550060

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
U0203	87	Communication error	[MISSING MESSAGE]	Diagnosis condition	CAN communication: active
				Signal (terminal)	–
				Threshold	Left front door control unit does not transmit signal on the CAN communication.
				Diagnosis delay time	–

POSSIBLE CAUSE

- CAN communication
- Left front door control unit

FAIL-SAFE

–

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “Right front door control unit” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-140, "RH : Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

RH : Diagnosis Procedure

INFOID:0000000013550061

1.CHECK DTC WITH LEFT FRONT DOOR CONTROL UNIT

Check that DTC is not detected with left front door control unit.

Is the inspection result normal?

YES >> GO TO 2.
NO >> Refer to DLK-60, "DTC Index".

2.CHECK CAN COMMUNICATION SYSTEM DIAGNOSIS

Perform the trouble diagnosis for CAN communication system. Refer to LAN-58, "Trouble Diagnosis Flow Chart".

Is the inspection result normal?

YES >> Replace left front door control unit. Refer to DLK-286, "Removal and Installation".
NO >> Repair or replace harness.

U0204 FRONT DOOR CONTROL UNIT

LH

LH : DTC Description

INFOID:0000000013550062

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
U0204	87	Communication error	[MISSING MESSAGE]	Diagnosis condition	CAN communication: active
				Signal (terminal)	–
				Threshold	Right front door control unit does not transmit signal on the CAN communication.
				Diagnosis delay time	–

POSSIBLE CAUSE

- CAN communication
- Right front door control unit

FAIL-SAFE

–

DTC CONFIRMATION PROCEDURE

1. PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “Left front door control unit” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-141, "LH : Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

LH : Diagnosis Procedure

INFOID:0000000013550063

1. CHECK DTC WITH RIGHT FRONT DOOR CONTROL UNIT

Check that DTC is not detected with right front door control unit.

Is the inspection result normal?

YES >> GO TO 2.
NO >> Refer to DLK-70, "DTC Index".

2. CHECK CAN COMMUNICATION SYSTEM DIAGNOSIS

Perform the trouble diagnosis for CAN communication system. Refer to LAN-58, "Trouble Diagnosis Flow Chart".

Is the inspection result normal?

YES >> Replace right front door control unit. Refer to DLK-286, "Removal and Installation".
NO >> Repair or replace harness.

RH

RH : DTC Description

INFOID:0000000013550064

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
U0204	87	Communication error	[MISSING MESSAGE]	Diagnosis condition	CAN communication: active
				Signal (terminal)	–
				Threshold	Right front door control unit does not transmit signal on the CAN communication.
				Diagnosis delay time	–

POSSIBLE CAUSE

- CAN communication
- Right front door control unit

FAIL-SAFE

–

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “Right front door control unit” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-142, "RH : Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

RH : Diagnosis Procedure

INFOID:0000000013550065

1.CHECK CAN COMMUNICATION SYSTEM DIAGNOSIS

Perform the trouble diagnosis for CAN communication system. Refer to LAN-58, "Trouble Diagnosis Flow Chart".

Is the inspection result normal?

YES >> Replace right front door control unit. Refer to DLK-286, "Removal and Installation".
NO >> Repair or replace harness.

U0215 LIN COMMUNICATION
LH

LH : DTC Description

INFOID:0000000013550066

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
U0215	00	Communication error	[NO SUBTYPE INFO]	Diagnosis condition	CAN communication: active
				Signal (terminal)	–
				Threshold	LIN communication with the power window main switch and left front seat adjustment switch group has a malfunction
				Diagnosis delay time	–

POSSIBLE CAUSE

- Harness or connector (power window main switch)
- Harness or connector (left front seat adjustment switch group)
- Power window main switch
- Left front seat adjustment switch group

FAIL-SAFE

Inhibit power window, mirror and seat heater operation

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “Left front door control unit” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-143, "LH : Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

LH : Diagnosis Procedure

INFOID:0000000013550067

1.CHECK LIN COMMUNICATION CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect left front door control unit, power window main switch and left front seat adjustment switch group connector.
3. Check continuity between left front door control unit harness connector and power window main switch harness connector.

Left front door control unit		Power window main switch		Continuity
Connector	Terminal	Connector	Terminal	
D16	41	D38	1	Not existed

4. Check continuity between left front door control unit harness connector and left front seat adjustment switch group harness connector.

Left front door control unit		Left front seat adjustment switch group		Continuity
Connector	Terminal	Connector	Terminal	
D17	56	D38	1	Not existed

Left front door control unit		Left front seat adjustment switch group		Continuity
Connector	Terminal	Connector	Terminal	
D10	56	D38	1	Not existed

5. Check voltage between left front door control unit harness connector and ground.

(+)		(–)	Voltage (Approx.)
Left front door control unit			
Connector	Terminal		
D16	41	Ground	0 V
D17	56		

6. Check continuity between left front door control unit harness connector and ground.

Left front door control unit		Ground	Continuity
Connector	Terminal		
D16	41		Not existed
D17	56		

Is the inspection result normal?

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

2.ERASE DTC

1. Connect left front door control unit, power window main switch and left front seat adjustment switch group connector.
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “Left front door control unit” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-143, "LH : DTC Description".

Is DTC “U0215-00” detected?

YES >> GO TO 3.
NO >> INSPECTION END

3.REPLACE LEFT FRONT SEAT ADJUSTMENT SWITCH GROUP AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace left front seat adjustment switch group. Refer to ADP-114, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “Left front door control unit” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-143, "LH : DTC Description".

Is DTC “U0215-00” detected?

YES >> GO TO 4.
NO >> INSPECTION END

4.REPLACE POWER WINDOW MAIN SWITCH AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace power window main switch. Refer to PWC-89, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “Left front door control unit” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-143, "LH : DTC Description".

Is DTC “U0215-00” detected?

YES >> Replace left front door control unit. Refer to DLK-286, "Removal and Installation".
NO >> INSPECTION END

RH

RH : DTC Description

INFOID:0000000013550068

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
U0215	00	Communication error	[NO SUBTYPE INFO]	Diagnosis condition	CAN communication: active
				Signal (terminal)	–
				Threshold	LIN communication with the power window main switch and right front seat adjustment switch group has a malfunction
				Diagnosis delay time	–

POSSIBLE CAUSE

- Harness or connector (power window main switch)
- Harness or connector (right front seat adjustment switch group)
- Right front seat adjustment switch group

FAIL-SAFE

Inhibit power window, mirror and seat heater operation

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “Right front door control unit” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-145, "RH : Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

RH : Diagnosis Procedure

INFOID:0000000013550069

1.CHECK LIN COMMUNICATION CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect right front door control unit and right front seat adjustment switch group connector.
3. Check continuity between right front door control unit harness connector and right front seat adjustment switch group harness connector.

Right front door control unit		Right front seat adjustment switch group		Continuity
Connector	Terminal	Connector	Terminal	
D60	56	D38	1	Not existed

4. Check voltage between right front door control unit harness connector and ground.

(+)		(–)	Voltage (Approx.)
Right front door control unit			
Connector	Terminal		
D60	56	Ground	0 V

5. Check continuity between right front door control unit harness connector and ground.

Right front door control unit		Ground	Continuity
Connector	Terminal		
D60	56		Not existed

Is the inspection result normal?

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

2.ERASE DTC

1. Connect right front door control unit and right front seat adjustment switch group connector.
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “Right front door control unit” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-145, "RH : DTC Description".

Is DTC “U0215-00” detected?

YES >> GO TO 3.
NO >> INSPECTION END

3.REPLACE RIGHT FRONT SEAT ADJUSTMENT SWITCH GROUP AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace right front seat adjustment switch group. Refer to ADP-114, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “Right front door control unit” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-145, "RH : DTC Description".

Is DTC “U0215-00” detected?

YES >> Replace right front door control unit. Refer to DLK-286, "Removal and Installation".
NO >> INSPECTION END

U1008 LIN COMMUNICATION
LH

LH : DTC Description

INFOID:0000000013550070

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
U1008	00	Communication error (LIN bus 1)	[NO SUBTYPE INFO]	Diagnosis condition	CAN communication: active
				Signal (terminal)	–
				Threshold	LIN communication with the power window main switch and left front seat adjustment switch group has a malfunction
				Diagnosis delay time	–

POSSIBLE CAUSE

- Harness or connector (power window main switch)
- Harness or connector (left front seat adjustment switch group)
- Power window main switch
- Left front seat adjustment switch group

FAIL-SAFE

Inhibit power window main switch and left front seat adjustment switch group operation

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “Left front door control unit” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-147, "LH : Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

LH : Diagnosis Procedure

INFOID:0000000013550071

1.CHECK LIN COMMUNICATION CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect left front door control unit, power window main switch and left front seat adjustment switch group connector.
3. Check continuity between left front door control unit harness connector and power window main switch harness connector.

Left front door control unit		Power window main switch		Continuity
Connector	Terminal	Connector	Terminal	
D16	41	D38	1	Not existed

4. Check continuity between left front door control unit harness connector and left front seat adjustment switch group harness connector.

Left front door control unit		Left front seat adjustment switch group		Continuity
Connector	Terminal	Connector	Terminal	
D17	56	D38	1	Not existed

5. Check voltage between left front door control unit harness connector and ground.

(+)		(–)	Voltage (Approx.)
Left front door control unit			
Connector	Terminal		
D16	41	Ground	0 V
D17	56		

6. Check continuity between left front door control unit harness connector and ground.

Left front door control unit		Ground	Continuity
Connector	Terminal		
D16	41		Not existed
D17	56		

Is the inspection result normal?

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

2.ERASE DTC

1. Connect left front door control unit, power window main switch and left front seat adjustment switch group connector.
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “Left front door control unit” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-147, "LH : DTC Description".

Is DTC “U1008-00” detected?

YES >> GO TO 3.
NO >> INSPECTION END

3.REPLACE LEFT FRONT SEAT ADJUSTMENT SWITCH GROUP AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace left front seat adjustment switch group. Refer to ADP-114, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “Left front door control unit” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-147, "LH : DTC Description".

Is DTC “U1008-00” detected?

YES >> GO TO 4.
NO >> INSPECTION END

4.REPLACE POWER WINDOW MAIN SWITCH AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace power window main switch. Refer to PWC-89, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “Left front door control unit” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-147, "LH : DTC Description".

Is DTC “U1008-00” detected?

YES >> Replace left front door control unit. Refer to DLK-286, "Removal and Installation".
NO >> INSPECTION END

RH

RH : DTC Description

INFOID:0000000013550072

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
U1008	00	Communication error (LIN bus 1)	[NO SUBTYPE INFO]	Diagnosis condition	CAN communication: active
				Signal (terminal)	–
				Threshold	LIN communication with the power window main switch and right front seat adjustment switch group has a malfunction
				Diagnosis delay time	–

POSSIBLE CAUSE

- Harness or connector (power window main switch)
- Harness or connector (right front seat adjustment switch group)
- Right front seat adjustment switch group

FAIL-SAFE

Inhibit right front seat adjustment switch group operation

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “Right front door control unit” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-149, "RH : Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

RH : Diagnosis Procedure

INFOID:0000000013550073

1.CHECK LIN COMMUNICATION CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect right front door control unit and right front seat adjustment switch group connector.
3. Check continuity between right front door control unit harness connector and right front seat adjustment switch group harness connector.

Right front door control unit		Right front seat adjustment switch group		Continuity
Connector	Terminal	Connector	Terminal	
D60	56	D38	1	Not existed

4. Check voltage between right front door control unit harness connector and ground.

(+)		(–)	Voltage (Approx.)
Right front door control unit			
Connector	Terminal		
D60	56	Ground	0 V

5. Check continuity between right front door control unit harness connector and ground.

Right front door control unit		Ground	Continuity
Connector	Terminal		
D60	56		Not existed

Is the inspection result normal?

YES >> GO TO 2.

NO >> Repair or replace harness.

2.ERASE DTC

1. Connect right front door control unit and right front seat adjustment switch group connector.
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “Right front door control unit” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-148, "RH : DTC Description".

Is DTC “U1008-00” detected?

YES >> GO TO 3.
NO >> INSPECTION END

3.REPLACE RIGHT FRONT SEAT ADJUSTMENT SWITCH GROUP AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace right front seat adjustment switch group. Refer to ADP-114, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “Right front door control unit” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-148, "RH : DTC Description".

Is DTC “U1008-00” detected?

YES >> Replace right front door control unit. Refer to DLK-286, "Removal and Installation".
NO >> INSPECTION END

B154E REMOTE KEYLESS ENTRY RECEIVER

DTC Description

INFOID:0000000013550074

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B154E	11	Antenna module	[CIRC SHORT TO GRND]	Diagnosis condition	Intelligent Key system operate
				Signal (terminal)	Remote keyless entry receiver communication signal
				Threshold	Harness to the remote keyless entry receiver is shorted to ground
				Diagnosis delay time	–
	12		[CIRC SHORT TO BATTERY]	Diagnosis condition	Intelligent Key system operate
				Signal (terminal)	Remote keyless entry receiver communication signal
				Threshold	Harness to the remote keyless entry receiver is shorted to battery
				Diagnosis delay time	–
	13		[CIRC OPEN]	Diagnosis condition	Intelligent Key system operate
				Signal (terminal)	Remote keyless entry receiver communication signal
				Threshold	Harness to the remote keyless entry receiver has a open circuit
				Diagnosis delay time	–

POSSIBLE CAUSE (B154E-11)

- Short to ground between circuit of remote keyless entry receiver and Intelligent Key unit
- Remote keyless entry receiver
- Intelligent Key unit

POSSIBLE CAUSE (B154E-12)

- Short to battery between circuit of remote keyless entry receiver and Intelligent Key unit
- Remote keyless entry receiver
- Intelligent Key unit

POSSIBLE CAUSE (B154E-13)

- Disconnection between remote keyless entry receiver and Intelligent Key unit
- Remote keyless entry receiver
- Intelligent Key unit

FAIL-SAFE

Inhibit Intelligent Key system and remote keyless entry function

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Press Intelligent Key lock or unlock button.
3. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-152, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013550075

DTC “B154E-11”

1.CHECK REMOTE KEYLESS ENTRY RECEIVER COMMUNICATION CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect Intelligent Key unit and remote keyless entry receiver connector.
3. Check continuity between Intelligent Key unit harness connector and ground.

Intelligent Key unit		Ground	Continuity
Connector	Terminal		
M149	18		Not existed

Is the inspection result normal?

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

2.ERASE DTC

1. Connect Intelligent Key unit and remote keyless entry receiver connector.
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-151, "DTC Description".

Is DTC “B154E-11” detected?

YES >> GO TO 3.
NO >> INSPECTION END

3.REPLACE REMOTE KEYLESS ENTRY RECEIVER AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace remote keyless entry receiver. Refer to DLK-284, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-151, "DTC Description".

Is DTC “B154E-11” detected?

YES >> Replace Intelligent Key unit. Refer to DLK-285, "Removal and Installation".
NO >> INSPECTION END

DTC “B154E-12”

1.CHECK REMOTE KEYLESS ENTRY RECEIVER COMMUNICATION CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect Intelligent Key unit and remote keyless entry receiver connector.
3. Check continuity between Intelligent Key unit harness connector and ground.

(+)		(–)	Voltage (Approx.)
Intelligent Key unit			
Connector	Terminal		
M149	18	Ground	0 V

Is the inspection result normal?

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

2.ERASE DTC

1. Connect Intelligent Key unit and remote keyless entry receiver connector.
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-151, "DTC Description".

Is DTC “B154E-12” detected?

YES >> GO TO 3.
NO >> INSPECTION END

3.REPLACE REMOTE KEYLESS ENTRY RECEIVER AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace remote keyless entry receiver. Refer to DLK-284, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-151, "DTC Description".

Is DTC “B154E-12” detected?

YES >> Replace Intelligent Key unit. Refer to DLK-285, "Removal and Installation".
NO >> INSPECTION END

DTC “B154E-13”

1.CHECK REMOTE KEYLESS ENTRY RECEIVER COMMUNICATION CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect Intelligent Key unit and remote keyless entry receiver connector.
3. Check continuity between Intelligent Key unit harness connector and remote keyless entry receiver harness connector.

Intelligent Key unit		Remote keyless entry receiver		Continuity
Connector	Terminal	Connector	Terminal	
M149	18	M150	3	Existed

Is the inspection result normal?

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

2.ERASE DTC

1. Connect Intelligent Key unit and remote keyless entry receiver connector.
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-151, "DTC Description".

Is DTC “B154E-13” detected?

YES >> GO TO 3.
NO >> INSPECTION END

3.REPLACE REMOTE KEYLESS ENTRY RECEIVER AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace remote keyless entry receiver. Refer to DLK-284, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-151, "DTC Description".

Is DTC “B154E-13” detected?

YES >> Replace Intelligent Key unit. Refer to DLK-285, "Removal and Installation".
NO >> INSPECTION END

B1581 INTELLIGENT KEY UNIT

DTC Description

INFOID:0000000013550076

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B1581	00	No-load current mode	[NO SUBTYPE INFO]	Diagnosis condition	All times
				Signal (terminal)	–
				Threshold	No-load current mode is active.
				Diagnosis delay time	–

POSSIBLE CAUSE

Intelligent Key unit

FAIL-SAFE

–

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-154, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013550077

1.ERASE DTC

1. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
2. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-154, "DTC Description".

Is DTC “B1581-00” detected?

YES >> Replace Intelligent Key unit. Refer to DLK-285, "Removal and Installation".
NO >> INSPECTION END

B1A4A FRONT INTELLIGENT KEY DOOR HANDLE LH

DTC Description

INFOID:0000000013550078

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B1A4A	11	I-Key sensor (front door handle LH) [Intelligent Key sensor (front door handle left)]	[CIRC SHORT TO GRND]	Diagnosis condition	When one of the following condition is satisfied • CONSULT function: self diagnostic result • Start engine and wait 3 minutes or more
				Signal (terminal)	Left front Intelligent Key door handle signal
				Threshold	Harness to the left front Intelligent Key door handle is shorted to ground
				Diagnosis delay time	–
	12		[CIRC SHORT TO BATTERY]	Diagnosis condition	When one of the following condition is satisfied • CONSULT function: self diagnostic result • Start engine and wait 3 minutes or more
				Signal (terminal)	Left front Intelligent Key door handle signal
				Threshold	Harness to the left front Intelligent Key door handle is shorted to battery
				Diagnosis delay time	–
	13		[CIRC OPEN]	Diagnosis condition	When one of the following condition is satisfied • CONSULT function: self diagnostic result • Start engine and wait 3 minutes or more
				Signal (terminal)	Left front Intelligent Key door handle signal
				Threshold	Harness to the left front Intelligent Key door handle has a open circuit
				Diagnosis delay time	–
	96		[CMPNENT INTERNAL MLFNCTN]	Diagnosis condition	CONSULT function: self diagnostic result
				Signal (terminal)	Left front Intelligent Key door handle signal
				Threshold	Error log was received from the left front Intelligent Key door handle
				Diagnosis delay time	–

POSSIBLE CAUSE (B1A4A-11)

- Short to ground between circuit of left front Intelligent Key door handle and Intelligent Key unit
- Left front Intelligent Key door handle
- Intelligent Key unit

POSSIBLE CAUSE (B1A4A-12)

- Short to battery between circuit of left front Intelligent Key door handle and Intelligent Key unit
- Left front Intelligent Key door handle
- Intelligent Key unit

POSSIBLE CAUSE (B1A4A-13)

- Disconnection between left front Intelligent Key door handle and Intelligent Key unit
- Left front Intelligent Key door handle

• Intelligent Key unit

POSSIBLE CAUSE (B1A4A-96)
Left front Intelligent key door handle has internal malfunction

FAIL-SAFE
Inhibit left door one touch door/lock unlock function

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Start engine and wait 3 minutes or more.
3. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-156, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013550079

DTC “B1A4A-11”

1.CHECK LEFT FRONT INTELLIGENT KEY DOOR HANDLE INPUT SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect Intelligent Key unit and left front Intelligent Key door handle connector.
3. Check continuity between Intelligent Key unit harness connector and ground.

Intelligent Key unit		Ground	Continuity
Connector	Terminal		
M149	12		Not existed
	26		

Is the inspection result normal?

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

2.ERASE DTC

1. Connect Intelligent Key unit and left front Intelligent Key door handle connector.
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-155, "DTC Description".

Is DTC “B1A4A-11” detected?

YES >> GO TO 3.
NO >> INSPECTION END

3.REPLACE LEFT FRONT INTELLIGENT KEY DOOR HANDLE AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace left front door outside handle grip. Refer to DLK-266, "OUTSIDE HANDLE : Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-155, "DTC Description".

Is DTC “B1A4A-11” detected?

YES >> Replace Intelligent Key unit. Refer to DLK-285, "Removal and Installation".
NO >> INSPECTION END

DTC “B1A4A-12”

1.CHECK LEFT FRONT INTELLIGENT KEY DOOR HANDLE INPUT SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect Intelligent Key unit and left front Intelligent Key door handle connector.
3. Check voltage between Intelligent Key unit harness connector and ground.

(+)		(–)	Voltage (Approx.)
Intelligent Key unit			
Connector	Terminal		
M149	12	Ground	0 V
	26		

Is the inspection result normal?

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

2.ERASE DTC

1. Connect Intelligent Key unit and left front Intelligent Key door handle connector.
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-155, "DTC Description".

Is DTC “B1A4A-12” detected?

YES >> GO TO 3.
NO >> INSPECTION END

3.REPLACE LEFT FRONT INTELLIGENT KEY DOOR HANDLE AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace left front door outside handle grip. Refer to DLK-266, "OUTSIDE HANDLE : Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-155, "DTC Description".

Is DTC “B1A4A-12” detected?

YES >> Replace Intelligent Key unit. Refer to DLK-285, "Removal and Installation".
NO >> INSPECTION END

DTC “B1A4A-13”

1.CHECK LEFT FRONT INTELLIGENT KEY DOOR HANDLE INPUT SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect Intelligent Key unit and left front Intelligent Key door handle connector.
3. Check continuity between Intelligent Key unit harness connector and left front Intelligent Key door handle harness connector.

Intelligent Key unit		Left front Intelligent Key door handle		Continuity
Connector	Terminal	Connector	Terminal	
M149	12	D18	1	Existed
	26		2	

Is the inspection result normal?

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

2.ERASE DTC

1. Connect Intelligent Key unit and left front Intelligent Key door handle connector.
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.

4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-155, "DTC Description".

Is DTC “B1A4A-13” detected?

YES >> GO TO 3.
NO >> INSPECTION END

3.REPLACE LEFT FRONT INTELLIGENT KEY DOOR HANDLE AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace left front door outside handle grip. Refer to DLK-266, "OUTSIDE HANDLE : Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-155, "DTC Description".

Is DTC “B1A4A-13” detected?

YES >> Replace Intelligent Key unit. Refer to DLK-285, "Removal and Installation".
NO >> INSPECTION END

DTC “B1A4A-96”

1.REPLACE LEFT FRONT INTELLIGENT KEY DOOR HANDLE AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace left front door outside handle grip. Refer to DLK-266, "OUTSIDE HANDLE : Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-155, "DTC Description".

Is DTC “B1A4A-96” detected?

YES >> Replace Intelligent Key unit. Refer to DLK-285, "Removal and Installation".
NO >> INSPECTION END

B1A4B FRONT INTELLIGENT KEY DOOR HANDLE RH

DTC Description

INFOID:0000000013550080

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B1A4B	11	I-Key sensor (front door handle RH) [Intelligent Key sensor (front door handle right)]	[CIRC SHORT TO GRND]	Diagnosis condition	When one of the following condition is satisfied • CONSULT function: self diagnostic result • Start engine and wait 3 minutes or more
				Signal (terminal)	–
				Threshold	Harness to the right front Intelligent Key door handle is shorted to ground
				Diagnosis delay time	–
	12		[CIRC SHORT TO BATTERY]	Diagnosis condition	When one of the following condition is satisfied • CONSULT function: self diagnostic result • Start engine and wait 3 minutes or more
				Signal (terminal)	–
				Threshold	Harness to the right front Intelligent Key door handle is shorted to battery
				Diagnosis delay time	–
	13		[CIRC OPEN]	Diagnosis condition	When one of the following condition is satisfied • CONSULT function: self diagnostic result • Start engine and wait 3 minutes or more
				Signal (terminal)	–
				Threshold	Harness to the right front Intelligent Key door handle has a open circuit
				Diagnosis delay time	–
	96		[CMPNENT INTERNAL MLFNCTN]	Diagnosis condition	CONSULT function: self diagnostic result
				Signal (terminal)	–
				Threshold	Error log was received from the right front Intelligent Key door handle
				Diagnosis delay time	–

POSSIBLE CAUSE (B1A4B-11)

- Short to ground between circuit of right front Intelligent Key door handle and Intelligent Key unit
- Right front Intelligent Key door handle
- Intelligent Key unit

POSSIBLE CAUSE (B1A4B-12)

- Short to battery between circuit of right front Intelligent Key door handle and Intelligent Key unit
- Right front Intelligent Key door handle
- Intelligent Key unit

POSSIBLE CAUSE (B1A4B-13)

- Disconnection between right front Intelligent Key door handle and Intelligent Key unit
- Right front Intelligent Key door handle

• Intelligent Key unit

POSSIBLE CAUSE (B1A4B-96)
Right front Intelligent key door handle has internal malfunction

FAIL-SAFE
Inhibit right door one touch door lock/unlock function

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Start engine and wait 3 minutes or more.
3. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-160, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013550081

DTC “B1A4B-11”

1.CHECK RIGHT FRONT INTELLIGENT KEY DOOR HANDLE INPUT SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect Intelligent Key unit and right front Intelligent Key door handle connector.
3. Check continuity between Intelligent Key unit harness connector and ground.

Intelligent Key unit		Ground	Continuity
Connector	Terminal		
M149	11		Not existed
	25		

Is the inspection result normal?

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

2.ERASE DTC

1. Connect Intelligent Key unit and right front Intelligent Key door handle connector.
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-159, "DTC Description".

Is DTC “B1A4B-11” detected?

YES >> GO TO 3.
NO >> INSPECTION END

3.REPLACE RIGHT FRONT INTELLIGENT KEY DOOR HANDLE AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace right front door outside handle grip. Refer to DLK-266, "OUTSIDE HANDLE : Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-159, "DTC Description".

Is DTC “B1A4B-11” detected?

YES >> Replace Intelligent Key unit. Refer to DLK-285, "Removal and Installation".
NO >> INSPECTION END

DTC “B1A4B-12”

1.CHECK RIGHT FRONT INTELLIGENT KEY DOOR HANDLE INPUT SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect Intelligent Key unit and right front Intelligent Key door handle connector.
3. Check voltage between Intelligent Key unit harness connector and ground.

(+)		(–)	Voltage (Approx.)
Intelligent Key unit			
Connector	Terminal		
M149	11	Ground	0 V
	25		

Is the inspection result normal?

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

2.ERASE DTC

1. Connect Intelligent Key unit and right front Intelligent Key door handle connector.
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-159, "DTC Description".

Is DTC “B1A4B-12” detected?

YES >> GO TO 3.
NO >> INSPECTION END

3.REPLACE RIGHT FRONT INTELLIGENT KEY DOOR HANDLE AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace right front door outside handle grip. Refer to DLK-266, "OUTSIDE HANDLE : Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-159, "DTC Description".

Is DTC “B1A4B-12” detected?

YES >> Replace Intelligent Key unit. Refer to DLK-285, "Removal and Installation".
NO >> INSPECTION END

DTC “B1A4B-13”

1.CHECK RIGHT FRONT INTELLIGENT KEY DOOR HANDLE INPUT SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect Intelligent Key unit and right front Intelligent Key door handle connector.
3. Check continuity between Intelligent Key unit harness connector and right front Intelligent Key door handle harness connector.

Intelligent Key unit		Right front Intelligent Key door handle		Continuity
Connector	Terminal	Connector	Terminal	
M149	11	D68	1	Existed
	25		2	

Is the inspection result normal?

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

2.ERASE DTC

1. Connect Intelligent Key unit and right front Intelligent Key door handle connector.
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.

4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-159, "DTC Description".

Is DTC “B1A4B-13” detected?

YES >> GO TO 3.
NO >> INSPECTION END

3.REPLACE RIGHT FRONT INTELLIGENT KEY DOOR HANDLE AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace right front door outside handle grip. Refer to DLK-266, "OUTSIDE HANDLE : Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-159, "DTC Description".

Is DTC “B1A4B-13” detected?

YES >> Replace Intelligent Key unit. Refer to DLK-285, "Removal and Installation".
NO >> INSPECTION END

DTC “B1A4B-96”

1.REPLACE RIGHT FRONT INTELLIGENT KEY DOOR HANDLE AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace right front door outside handle grip. Refer to DLK-266, "OUTSIDE HANDLE : Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-159, "DTC Description".

Is DTC “B1A4B-96” detected?

YES >> Replace Intelligent Key unit. Refer to DLK-285, "Removal and Installation".
NO >> INSPECTION END

B1A4E REAR DOOR INTELLIGENT KEY ANTENNA LH

DTC Description

INFOID:0000000013550082

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B1A4E	11	I-Key antenna left (Intelligent Key antenna left)	[CIRC SHORT TO GRND]	Diagnosis condition	When one of the following condition is satisfied • CONSULT function: self diagnostic result • Start engine and wait 3 minutes or more • At Intelligent Key system action
				Signal (terminal)	Outside key antenna LH signal
				Threshold	Circuit of the outside key antenna (left door) is shorted to ground
				Diagnosis delay time	–
	12		[CIRC SHORT TO BATTERY]	Diagnosis condition	When one of the following condition is satisfied • CONSULT function: self diagnostic result • Start engine and wait 3 minutes or more • At Intelligent Key system action
				Signal (terminal)	Outside key antenna LH signal
				Threshold	Circuit of the outside key antenna (left door) is shorted to battery
				Diagnosis delay time	–
	13		[CIRC OPEN]	Diagnosis condition	When one of the following condition is satisfied • CONSULT function: self diagnostic result • Start engine and wait 3 minutes or more **NOTE:** The error can only be detected at a voltage of 11.5 V or more
				Signal (terminal)	Outside key antenna LH signal
				Threshold	Circuit of the outside key antenna (left door) is open
				Diagnosis delay time	–
	1D		[CIRC CURRENT OUT OF RANGE]	Diagnosis condition	When one of the following condition is satisfied • CONSULT function: self diagnostic result • Start engine and wait 3 minutes or more **NOTE:** The error can only be detected at a voltage of 11.5 V or more
				Signal (terminal)	Outside key antenna LH signal
				Threshold	Outside key antenna (left door) untuned
				Diagnosis delay time	–
	2B		[Short circuit between trigger lines]	Diagnosis condition	When one of the following condition is satisfied • CONSULT function: self diagnostic result • Start engine and wait 3 minutes or more • At Intelligent Key system action
				Signal (terminal)	Outside key antenna LH signal
				Threshold	Harness to the outside key antenna (left door) has a short
				Diagnosis delay time	–

POSSIBLE CAUSE (B1A4E-11)
- Short to ground between circuit of outside key antenna (left door) and Intelligent Key unit
- Outside key antenna (left door)
- Intelligent Key unit

POSSIBLE CAUSE (B1A4E-12)
- Short to battery between circuit of outside key antenna (left door) and Intelligent Key unit
- Outside key antenna (left door)
- Intelligent Key unit

POSSIBLE CAUSE (B1A4E-13)
- Disconnection between outside key antenna (left door) and Intelligent Key
- Outside key antenna (left door)
- Intelligent Key unit

POSSIBLE CAUSE (B1A4E-1D)
Use of a incorrectly tuned outside key antenna

POSSIBLE CAUSE (B1A4E-2B)
- Short circuit between outside key antenna (left door)
- Outside key antenna (left door)
- Intelligent Key unit

FAIL-SAFE
Inhibit Intelligent Key system

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Start engine and wait 3 minutes or more.
3. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-165, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013550083

DTC “B1A4E-11”

1.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect Intelligent Key unit and outside key antenna (left door) connector.
3. Check continuity between Intelligent Key unit harness connector and ground.

Intelligent Key unit		Ground	Continuity
Connector	Terminal		
M149	7		Not existed
	21		

Is the inspection result normal?

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

2.ERASE DTC

1. Connect Intelligent Key unit and outside key antenna (left door) connector.
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-163, "DTC Description".

Is DTC “B1A4E-11” detected?

YES >> GO TO 3.
NO >> INSPECTION END

3.REPLACE OUTSIDE KEY ANTENNA AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace outside key antenna (left door). Refer to DLK-283, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-163, "DTC Description".

Is DTC “B1A4E-11” detected?

YES >> Replace Intelligent Key unit. Refer to DLK-285, "Removal and Installation".
NO >> INSPECTION END

DTC “B1A4E-12”

1.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect Intelligent Key unit and outside key antenna (left door) connector.
3. Check voltage between Intelligent Key unit harness connector and ground.

(+)		(–)	Voltage (Approx.)
Intelligent Key unit			
Connector	Terminal		
M149	7	Ground	0 V
	21		

Is the inspection result normal?

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

2.ERASE DTC

1. Connect Intelligent Key unit and outside key antenna (left door) connector.
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-163, "DTC Description".

Is DTC “B1A4E-12” detected?

YES >> GO TO 3.
NO >> INSPECTION END

3.REPLACE OUTSIDE KEY ANTENNA AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace outside key antenna (left door). Refer to DLK-283, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-163, "DTC Description".

Is DTC “B1A4E-12” detected?

YES >> Replace Intelligent Key unit. Refer to DLK-285, "Removal and Installation".
NO >> INSPECTION END

DTC “B1A4E-13”

1.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect outside key antenna (left door) connector.

3. Check continuity between Intelligent Key unit harness connector and outside key antenna (left door) harness connector.

Intelligent Key unit		Outside key antenna (left door)		Continuity
Connector	Terminal	Connector	Terminal	
M149	7	D105	1	Existed
	21		2	

Is the inspection result normal?

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

2.ERASE DTC

1. Connect Intelligent Key unit and outside key antenna (left door) connector.
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-163, "DTC Description".

Is DTC “B1A4E-13” detected?

YES >> GO TO 3.
NO >> INSPECTION END

3.REPLACE OUTSIDE KEY ANTENNA AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace outside key antenna (left door). Refer to DLK-283, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-163, "DTC Description".

Is DTC “B1A4E-13” detected?

YES >> Replace Intelligent Key unit. Refer to DLK-285, "Removal and Installation".
NO >> INSPECTION END

DTC “B1A4E-1D”

1.REPLACE OUTSIDE KEY ANTENNA AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace outside key antenna (left door). Refer to DLK-283, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-163, "DTC Description".

Is DTC “B1A4E-1D” detected?

YES >> Replace Intelligent Key unit. Refer to DLK-285, "Removal and Installation".
NO >> INSPECTION END

DTC “B1A4E-2B”

1.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect Intelligent Key unit and outside key antenna (left door) connector.
3. Check continuity between Intelligent Key unit harness connector and ground.

Intelligent Key unit		Ground	Continuity
Connector	Terminal		
M149	7		Not existed
	21		

4. Check voltage between Intelligent Key unit harness connector and ground.

(+)		(–)	Voltage (Approx.)
Intelligent Key unit			
Connector	Terminal		
M149	7	Ground	0 V
	21		

Is the inspection result normal?

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

2.ERASE DTC

1. Connect Intelligent Key unit and outside key antenna (left door) connector.
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-163, "DTC Description".

Is DTC “B1A4E-2B” detected?

YES >> GO TO 3.
NO >> INSPECTION END

3.REPLACE OUTSIDE KEY ANTENNA AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace outside key antenna (left door). Refer to DLK-283, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-163, "DTC Description".

Is DTC “B1A4E-2B” detected?

YES >> Replace Intelligent Key unit. Refer to DLK-285, "Removal and Installation".
NO >> INSPECTION END

B1A4F REAR DOOR INTELLIGENT KEY ANTENNA RH

DTC Description

INFOID:0000000013550084

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B1A4F	11	I-Key antenna right (Intelligent Key antenna right)	[CIRC SHORT TO GRND]	Diagnosis condition	When one of the following condition is satisfied • CONSULT function: self diagnostic result • Start engine and wait 3 minutes or more • At Intelligent Key system action
				Signal (terminal)	Outside key antenna RH signal
				Threshold	Circuit of the outside key antenna (right door) is shorted to ground
				Diagnosis delay time	–
	12		[CIRC SHORT TO BATTERY]	Diagnosis condition	When one of the following condition is satisfied • CONSULT function: self diagnostic result • Start engine and wait 3 minutes or more • At Intelligent Key system action
				Signal (terminal)	Outside key antenna RH signal
				Threshold	Circuit of the outside key antenna (right door) is shorted to battery
				Diagnosis delay time	–
	13		[CIRC OPEN]	Diagnosis condition	When one of the following condition is satisfied • CONSULT function: self diagnostic result • Start engine and wait 3 minutes or more **NOTE:** The error can only be detected at a voltage of 11.5 V or more
				Signal (terminal)	Outside key antenna RH signal
				Threshold	Circuit of the outside key antenna (right door) is open
				Diagnosis delay time	–
	1D		[CIRC CURRENT OUT OF RANGE]	Diagnosis condition	When one of the following condition is satisfied • CONSULT function: self diagnostic result • Start engine and wait 3 minutes or more **NOTE:** The error can only be detected at a voltage of 11.5 V or more
				Signal (terminal)	–
				Threshold	Outside key antenna (right door) untuned
				Diagnosis delay time	–
	2B		[Short circuit between trigger lines]	Diagnosis condition	When one of the following condition is satisfied • CONSULT function: self diagnostic result • Start engine and wait 3 minutes or more • At Intelligent Key system action
				Signal (terminal)	Outside key antenna RH signal
				Threshold	Harness to the outside key antenna (right door) has a short
				Diagnosis delay time	–

POSSIBLE CAUSE (B1A4F-11)
- Short to ground between circuit of outside key antenna (right door) and Intelligent Key unit
- Outside key antenna (right door)
- Intelligent Key unit

POSSIBLE CAUSE (B1A4F-12)
- Short to battery between circuit of outside key antenna (right door) and Intelligent Key unit
- Outside key antenna (right door)
- Intelligent Key unit

POSSIBLE CAUSE (B1A4F-13)
- Disconnection between outside key antenna (right door) and Intelligent Key
- Outside key antenna (right door)
- Intelligent Key unit

POSSIBLE CAUSE (B1A4F-1D)
Use of a incorrectly tuned outside key antenna

POSSIBLE CAUSE (B1A4F-2B)
- Short circuit between outside key antenna (right door)
- Outside key antenna (right door)
- Intelligent Key unit

FAIL-SAFE
Inhibit Intelligent Key system

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Start engine and wait 3 minutes or more.
3. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-171, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013550085

DTC “B1A4F-11”

1.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect Intelligent Key unit and outside key antenna (right door) connector.
3. Check continuity between Intelligent Key unit harness connector and ground.

Intelligent Key unit		Ground	Continuity
Connector	Terminal		
M149	6		Not existed
	20		

Is the inspection result normal?

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

2.ERASE DTC

1. Connect Intelligent Key unit and outside key antenna (right door) connector.
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-169, "DTC Description".

Is DTC “B1A4F-11” detected?

YES >> GO TO 3.
NO >> INSPECTION END

3.REPLACE OUTSIDE KEY ANTENNA AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace outside key antenna (right door). Refer to DLK-283, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-169, "DTC Description".

Is DTC “B1A4F-11” detected?

YES >> Replace Intelligent Key unit. Refer to DLK-285, "Removal and Installation".
NO >> INSPECTION END

DTC “B1A4F-12”

1.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect Intelligent Key unit and outside key antenna (right door) connector.
3. Check voltage between Intelligent Key unit harness connector and ground.

(+)		(–)	Voltage (Approx.)
Intelligent Key unit			
Connector	Terminal		
M149	6	Ground	0 V
	20		

Is the inspection result normal?

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

2.ERASE DTC

1. Connect Intelligent Key unit and outside key antenna (right door) connector.
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-169, "DTC Description".

Is DTC “B1A4F-12” detected?

YES >> GO TO 3.
NO >> INSPECTION END

3.REPLACE OUTSIDE KEY ANTENNA AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace outside key antenna (right door). Refer to DLK-283, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-169, "DTC Description".

Is DTC “B1A4F-12” detected?

YES >> Replace Intelligent Key unit. Refer to DLK-285, "Removal and Installation".
NO >> INSPECTION END

DTC “B1A4F-13”

1.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect outside key antenna (right door) connector.

3. Check continuity between Intelligent Key unit harness connector and outside key antenna (right door) harness connector.

Intelligent Key unit		Outside key antenna (right door)		Continuity
Connector	Terminal	Connector	Terminal	
M149	6	D125	1	Existed
	20		2	

Is the inspection result normal?

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

2.ERASE DTC

1. Connect Intelligent Key unit and outside key antenna (right door) connector.
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-169, "DTC Description".

Is DTC “B1A4F-13” detected?

YES >> GO TO 3.
NO >> INSPECTION END

3.REPLACE OUTSIDE KEY ANTENNA AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace outside key antenna (right door). Refer to DLK-283, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-169, "DTC Description".

Is DTC “B1A4F-13” detected?

YES >> Replace Intelligent Key unit. Refer to DLK-285, "Removal and Installation".
NO >> INSPECTION END

DTC “B1A4F-1D”

1.REPLACE OUTSIDE KEY ANTENNA AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace outside key antenna (right door). Refer to DLK-283, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-169, "DTC Description".

Is DTC “B1A4F-1D” detected?

YES >> Replace Intelligent Key unit. Refer to DLK-285, "Removal and Installation".
NO >> INSPECTION END

DTC “B1A4F-2B”

1.CHECK OUTSIDE KEY ANTENNA INPUT SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect Intelligent Key unit and outside key antenna (right door) connector.
3. Check continuity between Intelligent Key unit harness connector and ground.

Intelligent Key unit		Ground	Continuity
Connector	Terminal		
M149	6		Not existed
	20		

4. Check voltage between Intelligent Key unit harness connector and ground.

(+)		(–)	Voltage (Approx.)
Intelligent Key unit			
Connector	Terminal		
M149	6	Ground	0 V
	20		

Is the inspection result normal?

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

2.ERASE DTC

1. Connect Intelligent Key unit and outside key antenna (right door) connector.
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-169, "DTC Description".

Is DTC “B1A4F-2B” detected?

YES >> GO TO 3.
NO >> INSPECTION END

3.REPLACE OUTSIDE KEY ANTENNA AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace outside key antenna (right door). Refer to DLK-283, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-169, "DTC Description".

Is DTC “B1A4F-2B” detected?

YES >> Replace Intelligent Key unit. Refer to DLK-285, "Removal and Installation".
NO >> INSPECTION END

B1A50 FRONT INTELLIGENT KEY ANTENNA

DTC Description

INFOID:0000000013550086

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B1A50	11	I-Key antenna front (Intelligent Key antenna front)	[CIRC SHORT TO GRND]	Diagnosis condition	When one of the following condition is satisfied • CONSULT function: self diagnostic result • Start engine and wait 3 minutes or more • At Intelligent Key system action
				Signal (terminal)	Front inside key antenna signal
				Threshold	Circuit of the front inside key antenna is shorted to ground
				Diagnosis delay time	–
	12		[CIRC SHORT TO BATTERY]	Diagnosis condition	When one of the following condition is satisfied • CONSULT function: self diagnostic result • Start engine and wait 3 minutes or more • At Intelligent Key system action
				Signal (terminal)	Front inside key antenna signal
				Threshold	Circuit of the front inside key antenna is shorted to battery
				Diagnosis delay time	–
	13		[CIRC OPEN]	Diagnosis condition	When one of the following condition is satisfied • CONSULT function: self diagnostic result • Start engine and wait 3 minutes or more **NOTE:** The error can only be detected at a voltage of 11.5 V or more
				Signal (terminal)	Front inside key antenna signal
				Threshold	Circuit of the front inside key antenna is open
				Diagnosis delay time	–
	1D		[CIRC CURRENT OUT OF RANGE]	Diagnosis condition	When one of the following condition is satisfied • CONSULT function: self diagnostic result • Start engine and wait 3 minutes or more **NOTE:** The error can only be detected at a voltage of 11.5 V or more
				Signal (terminal)	Front inside key antenna signal
				Threshold	Front inside key antenna untuned
				Diagnosis delay time	–
	2B		[Short circuit between trigger lines]	Diagnosis condition	When one of the following condition is satisfied • CONSULT function: self diagnostic result • Start engine and wait 3 minutes or more • At Intelligent Key system action
				Signal (terminal)	Front inside key antenna signal
				Threshold	Harness to the front inside key antenna has a short
				Diagnosis delay time	–

POSSIBLE CAUSE (B1A50-11)
- Short to ground between circuit of front inside key antenna and Intelligent Key unit
- Front inside key antenna
- Intelligent Key unit

POSSIBLE CAUSE (B1A50-12)
- Short to battery between circuit of front inside key antenna and Intelligent Key unit
- Front inside key antenna
- Intelligent Key unit

POSSIBLE CAUSE (B1A50-13)
- Disconnection between front inside key antenna and Intelligent Key
- Front inside key antenna
- Intelligent Key unit

POSSIBLE CAUSE (B1A50-1D)
Use of a incorrectly tuned inside key antenna

POSSIBLE CAUSE (B1A50-2B)
- Short circuit between front inside key antenna
- Front inside key antenna
- Intelligent Key unit

FAIL-SAFE
Inhibit Intelligent Key system

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Start engine and wait 3 minutes or more.
3. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-177, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013550087

DTC “B1A50-11”

1.CHECK INSIDE KEY ANTENNA INPUT SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect Intelligent Key unit and front inside key antenna connector.
3. Check continuity between Intelligent Key unit harness connector and ground.

Intelligent Key unit		Ground	Continuity
Connector	Terminal		
M149	8		Not existed
	22		

Is the inspection result normal?

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

2.ERASE DTC

1. Connect Intelligent Key unit and front inside key antenna connector.
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-175, "DTC Description".

Is DTC “B1A50-11” detected?

YES >> GO TO 3.
NO >> INSPECTION END

3.REPLACE INSIDE KEY ANTENNA AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace front inside key antenna. Refer to DLK-281, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-175, "DTC Description".

Is DTC “B1A50-11” detected?

YES >> Replace Intelligent Key unit. Refer to DLK-285, "Removal and Installation".
NO >> INSPECTION END

DTC “B1A50-12”

1.CHECK INSIDE KEY ANTENNA INPUT SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect Intelligent Key unit and front inside key antenna connector.
3. Check voltage between Intelligent Key unit harness connector and ground.

(+)		(–)	Voltage (Approx.)
Intelligent Key unit			
Connector	Terminal		
M149	8	Ground	0 V
	22		

Is the inspection result normal?

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

2.ERASE DTC

1. Connect Intelligent Key unit and front inside key antenna connector.
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-175, "DTC Description".

Is DTC “B1A50-12” detected?

YES >> GO TO 3.
NO >> INSPECTION END

3.REPLACE INSIDE KEY ANTENNA AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace front inside key antenna. Refer to DLK-281, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-175, "DTC Description".

Is DTC “B1A50-12” detected?

YES >> Replace Intelligent Key unit. Refer to DLK-285, "Removal and Installation".
NO >> INSPECTION END

DTC “B1A50-13”

1.CHECK INSIDE KEY ANTENNA INPUT SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect front inside key antenna connector.

3. Check continuity between Intelligent Key unit harness connector and front inside key antenna harness connector.

Intelligent Key unit		Front inside key antenna		Continuity
Connector	Terminal	Connector	Terminal	
M149	8	M233	1	Existed
	22		2	

Is the inspection result normal?

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

2.ERASE DTC

1. Connect Intelligent Key unit and front inside key antenna connector.
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-175, "DTC Description".

Is DTC “B1A50-13” detected?

YES >> GO TO 3.
NO >> INSPECTION END

3.REPLACE INSIDE KEY ANTENNA AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace front inside key antenna. Refer to DLK-281, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-175, "DTC Description".

Is DTC “B1A50-13” detected?

YES >> Replace Intelligent Key unit. Refer to DLK-285, "Removal and Installation".
NO >> INSPECTION END

DTC “B1A50-1D”

1.REPLACE INSIDE KEY ANTENNA AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace front inside key antenna. Refer to DLK-281, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-175, "DTC Description".

Is DTC “B1A50-1D” detected?

YES >> Replace Intelligent Key unit. Refer to DLK-285, "Removal and Installation".
NO >> INSPECTION END

DTC “B1A50-2B”

1.CHECK INSIDE KEY ANTENNA INPUT SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect Intelligent Key unit and front inside key antenna connector.
3. Check continuity between Intelligent Key unit harness connector and ground.

Intelligent Key unit		Ground	Continuity
Connector	Terminal		
M149	8		Not existed
	22		

4. Check voltage between Intelligent Key unit harness connector and ground.

(+)		(–)	Voltage (Approx.)
Intelligent Key unit			
Connector	Terminal		
M149	8	Ground	0 V
	22		

Is the inspection result normal?

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

2.ERASE DTC

1. Connect Intelligent Key unit and front inside key antenna connector.
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-175, "DTC Description".

Is DTC “B1A50-2B” detected?

YES >> GO TO 3.
NO >> INSPECTION END

3.REPLACE INSIDE KEY ANTENNA AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace front inside key antenna. Refer to DLK-281, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-175, "DTC Description".

Is DTC “B1A50-2B” detected?

YES >> Replace Intelligent Key unit. Refer to DLK-285, "Removal and Installation".
NO >> INSPECTION END

B1A51 REAR INTELLIGENT KEY ANTENNA

DTC Description

INFOID:0000000013550088

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B1A51	11	I-Key antenna rear (Intelligent Key antenna rear)	[CIRC SHORT TO GRND]	Diagnosis condition	When one of the following condition is satisfied • CONSULT function: self diagnostic result • Start engine and wait 3 minutes or more • At Intelligent Key system action
				Signal (terminal)	Rear inside key antenna signal
				Threshold	Circuit of the rear inside key antenna is shorted to ground
				Diagnosis delay time	–
	12		[CIRC SHORT TO BATTERY]	Diagnosis condition	When one of the following condition is satisfied • CONSULT function: self diagnostic result • Start engine and wait 3 minutes or more • At Intelligent Key system action
				Signal (terminal)	Rear inside key antenna signal
				Threshold	Circuit of the rear inside key antenna is shorted to battery
				Diagnosis delay time	–
	13		[CIRC OPEN]	Diagnosis condition	When one of the following condition is satisfied • CONSULT function: self diagnostic result • Start engine and wait 3 minutes or more **NOTE:** The error can only be detected at a voltage of 11.5 V or more
				Signal (terminal)	Rear inside key antenna signal
				Threshold	Circuit of the rear inside key antenna is open
				Diagnosis delay time	–
	1D		[CIRC CURRENT OUT OF RANGE]	Diagnosis condition	When one of the following condition is satisfied • CONSULT function: self diagnostic result • Start engine and wait 3 minutes or more **NOTE:** The error can only be detected at a voltage of 11.5 V or more
				Signal (terminal)	Rear inside key antenna signal
				Threshold	Rear inside key antenna untuned
				Diagnosis delay time	–
	2B		[Short circuit between trigger lines.]	Diagnosis condition	When one of the following condition is satisfied • CONSULT function: self diagnostic result • Start engine and wait 3 minutes or more • At Intelligent Key system action
				Signal (terminal)	Rear inside key antenna signal
				Threshold	Harness to the rear inside key antenna has a short
				Diagnosis delay time	–

POSSIBLE CAUSE (B1A51-11)
- Short to ground between circuit of rear inside key antenna and Intelligent Key unit
- Rear inside key antenna
- Intelligent Key unit

POSSIBLE CAUSE (B1A51-12)
- Short to battery between circuit of rear inside key antenna and Intelligent Key unit
- Rear inside key antenna
- Intelligent Key unit

POSSIBLE CAUSE (B1A51-13)
- Disconnection between rear inside key antenna and Intelligent Key
- Rear inside key antenna
- Intelligent Key unit

POSSIBLE CAUSE (B1A51-1D)
Use of a incorrectly tuned inside key antenna

POSSIBLE CAUSE (B1A51-2B)
- Short circuit between rear inside key antenna
- Rear inside key antenna
- Intelligent Key unit

FAIL-SAFE
Inhibit Intelligent Key system

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Start engine and wait 3 minutes or more.
3. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-183, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013550089

DTC “B1A51-11”

1.CHECK INSIDE KEY ANTENNA INPUT SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect Intelligent Key unit and rear inside key antenna connector.
3. Check continuity between Intelligent Key unit harness connector and ground.

Intelligent Key unit		Ground	Continuity
Connector	Terminal		
M149	5		Not existed
	19		

Is the inspection result normal?

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

2.ERASE DTC

1. Connect Intelligent Key unit and rear inside key antenna connector.
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-181, "DTC Description".

Is DTC “B1A51-11” detected?

YES >> GO TO 3.
NO >> INSPECTION END

3.REPLACE INSIDE KEY ANTENNA AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace rear inside key antenna. Refer to DLK-282, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-181, "DTC Description".

Is DTC “B1A51-11” detected?

YES >> Replace Intelligent Key unit. Refer to DLK-285, "Removal and Installation".
NO >> INSPECTION END

DTC “B1A51-12”

1.CHECK INSIDE KEY ANTENNA INPUT SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect Intelligent Key unit and rear inside key antenna connector.
3. Check voltage between Intelligent Key unit harness connector and ground.

(+)		(–)	Voltage (Approx.)
Intelligent Key unit			
Connector	Terminal		
M149	5	Ground	0 V
	19		

Is the inspection result normal?

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

2.ERASE DTC

1. Connect Intelligent Key unit and rear inside key antenna connector.
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-181, "DTC Description".

Is DTC “B1A51-12” detected?

YES >> GO TO 3.
NO >> INSPECTION END

3.REPLACE INSIDE KEY ANTENNA AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace rear inside key antenna. Refer to DLK-282, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-181, "DTC Description".

Is DTC “B1A51-12” detected?

YES >> Replace Intelligent Key unit. Refer to DLK-285, "Removal and Installation".
NO >> INSPECTION END

DTC “B1A51-13”

1.CHECK INSIDE KEY ANTENNA INPUT SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect rear inside key antenna connector.

3. Check continuity between Intelligent Key unit harness connector and rear inside key antenna harness connector.

Intelligent Key unit		Rear inside key antenna		Continuity
Connector	Terminal	Connector	Terminal	
M149	5	M151	1	Existed
	19		2	

Is the inspection result normal?

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

2.ERASE DTC

1. Connect Intelligent Key unit and rear inside key antenna connector.
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-181, "DTC Description".

Is DTC “B1A51-13” detected?

YES >> GO TO 3.
NO >> INSPECTION END

3.REPLACE INSIDE KEY ANTENNA AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace rear inside key antenna. Refer to DLK-282, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-181, "DTC Description".

Is DTC “B1A51-13” detected?

YES >> Replace Intelligent Key unit. Refer to DLK-285, "Removal and Installation".
NO >> INSPECTION END

DTC “B1A51-1D”

1.REPLACE INSIDE KEY ANTENNA AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace rear inside key antenna. Refer to DLK-282, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-181, "DTC Description".

Is DTC “B1A51-1D” detected?

YES >> Replace Intelligent Key unit. Refer to DLK-285, "Removal and Installation".
NO >> INSPECTION END

DTC “B1A51-2B”

1.CHECK INSIDE KEY ANTENNA INPUT SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect Intelligent Key unit and rear inside key antenna connector.
3. Check continuity between Intelligent Key unit harness connector and ground.

Intelligent Key unit		Ground	Continuity
Connector	Terminal		
M149	5		Not existed
	19		

4. Check voltage between Intelligent Key unit harness connector and ground.

(+)		(–)	Voltage (Approx.)
Intelligent Key unit			
Connector	Terminal		
M149	5	Ground	0 V
	19		

Is the inspection result normal?

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

2.ERASE DTC

1. Connect Intelligent Key unit and rear inside key antenna connector.
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-181, "DTC Description".

Is DTC “B1A51-2B” detected?

YES >> GO TO 3.
NO >> INSPECTION END

3.REPLACE INSIDE KEY ANTENNA AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace rear inside key antenna. Refer to DLK-282, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-181, "DTC Description".

Is DTC “B1A51-2B” detected?

YES >> Replace Intelligent Key unit. Refer to DLK-285, "Removal and Installation".
NO >> INSPECTION END

B1D02 INTELLIGENT KEY UNIT

DTC Description

INFOID:0000000013550090

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B1D02	00	HANDS-FREE ACCESS function	[NO SUBTYPE INFO]	Diagnosis condition	All times
				Signal (terminal)	–
				Threshold	Trailer hitch: activated
				Diagnosis delay time	–

POSSIBLE CAUSE

- Trailer hitch
- Intelligent Key unit

FAIL-SAFE

Inhibit one touch door lock/unlock function

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-187, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013550091

1.REMOVE OR RETRACT TRAILER HITCH

1. Turn ignition switch OFF.
2. Remove or retract trailer hitch.

Is the inspection result normal?

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

2.ERASE DTC

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
3. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-187, "DTC Description".

Is DTC “B1D02-00” detected?

YES >> Replace Intelligent Key unit. Refer to DLK-285, "Removal and Installation".
NO >> INSPECTION END

B210A INTELLIGENT KEY UNIT

DTC Description

INFOID:0000000013550092

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B210A	00	Power supply circuit	[NO SUBTYPE INFO]	Diagnosis condition	CAN communication at the Intelligent Key unit is available
				Signal (terminal)	–
				Threshold	Battery voltage (CAN communication): 8 V or low
				Diagnosis delay time	15 sec.

POSSIBLE CAUSE

Battery voltage is too low (8 V or low)

FAIL-SAFE

Inhibit Intelligent Key system

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-188, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013550093

1.CHECK CAN COMMUNICATION SYSTEM

Check CAN communication system. Refer to LAN-58, "Trouble Diagnosis Flow Chart".

Is the inspection result normal?

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

2.CHECK BATTERY VOLTAGE

Measure the battery voltage.

Is the inspection result normal?

YES >> GO TO 3.
NO >> Perform battery inspection. Refer to PG-102, "MAIN BATTERY : How to Handle Battery".

3.CHECK BCM POWER SUPPLY

1. Turn ignition switch OFF.
2. Check BCM power supply and ground circuit.

Is the inspection result normal?

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

4.CHECK FUSE

1. Turn ignition switch OFF.
2. Check that the following fuse is not blown.

Signal name	Fuse No.
Battery power supply	58 (10 A)

Is the inspection result normal?

YES >> GO TO 5.
NO >> Replace the blown fuse after repairing the affected circuit if a fuse is blown.

5. CHECK POWER SUPPLY CIRCUIT

1. Disconnect Intelligent Key unit connector.
2. Check voltage between Intelligent Key unit harness connector and ground.

(+)		(−)	Voltage (Approx.)
Intelligent Key unit			
Connector	Terminal		
M149	15	Ground	12 V

Is the inspection result normal?

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

6. CHECK GROUND CIRCUIT

Check continuity between Intelligent Key unit harness connector and ground.

Intelligent Key unit		Ground	Continuity
Connector	Terminal		
M149	1		Existed

Is the inspection result normal?

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

B210B INTELLIGENT KEY UNIT

DTC Description

INFOID:0000000013550094

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B210B	00	Power supply circuit	[NO SUBTYPE INFO]	Diagnosis condition	CAN communication at the Intelligent Key unit is available
				Signal (terminal)	–
				Threshold	Battery voltage (CAN communication): 16 V or more
				Diagnosis delay time	15 sec.

POSSIBLE CAUSE

Battery voltage is too high (16 V or more)

FAIL-SAFE

Inhibit Intelligent Key system

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-190, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013550095

1.CHECK SELF DIAGNOSTIC RESULT

Check DTC using CONSULT.

What is the display history of DTC “B210B-00”?

“PAST” >> GO TO 2.
“CRNT”>> GO TO 3.

2.ERASE DTC

1. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
2. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-190, "DTC Description".

Is DTC “B210B-00” detected?

YES >> GO TO 3.
NO >> Check intermittent incident. Refer to GI-56, "Intermittent Incident".

3.CHECK CAN COMMUNICATION SYSTEM

Check CAN communication system. Refer to LAN-58, "Trouble Diagnosis Flow Chart".

Is the inspection result normal?

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

4.CHECK BATTERY VOLTAGE

1. Turn ignition switch OFF.

2. Measure the battery voltage.

Is the inspection result normal?

YES >> GO TO 5.
NO >> Perform battery inspection. Refer to PG-102, "MAIN BATTERY : How to Handle Battery".

5. CHECK BCM POWER SUPPLY

1. Turn ignition switch OFF.
2. Check BCM power supply and ground circuit.

Is the inspection result normal?

YES >> GO TO 6.
NO >> Repair or replace the malfunctioning parts.

6. CHECK POWER SUPPLY CIRCUIT

1. Disconnect Intelligent Key unit connector.
2. Check voltage between Intelligent Key unit harness connector and ground.

(+)		(–)	Voltage (Approx.)
Intelligent Key unit			
Connector	Terminal		
M149	15	Ground	12 V

Is the inspection result normal?

YES >> Replace Intelligent Key unit. Refer to DLK-285, "Removal and Installation".
NO >> Repair or replace harness.

B210D INTELLIGENT KEY UNIT

DTC Description

INFOID:0000000013550096

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B210D	00	Power supply	[NO SUBTYPE INFO]	Diagnosis condition	At Intelligent Key system action
				Signal (terminal)	–
				Threshold	Power supply (Intelligent Key unit): 8 V or low
				Diagnosis delay time	15 sec

POSSIBLE CAUSE

Battery voltage is too low (8 V or low)

FAIL-SAFE

Inhibit Intelligent Key system

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-192, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013550097

1.CHECK BATTERY VOLTAGE

Measure the battery voltage.

Is the inspection result normal?

YES >> GO TO 2.
NO >> Perform battery inspection. Refer to PG-102, "MAIN BATTERY : How to Handle Battery".

2.CHECK FUSE

1. Turn ignition switch OFF.
2. Check that the following fuse is not blown.

Signal name	Fuse No.
Battery power supply	58 (10 A)

Is the inspection result normal?

YES >> GO TO 3.
NO >> Replace the blown fuse after repairing the affected circuit if a fuse is blown.

3.CHECK POWER SUPPLY CIRCUIT

1. Disconnect Intelligent Key unit connector.
2. Check voltage between Intelligent Key unit harness connector and ground.

(+)		(–)	Voltage (Approx.)
Intelligent Key unit			
Connector	Terminal		
M149	15	Ground	12 V

Is the inspection result normal?

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

4. CHECK GROUND CIRCUIT

Check continuity between Intelligent Key unit harness connector and ground.

Intelligent Key unit		Ground	Continuity
Connector	Terminal		
M149	1		Existed

Is the inspection result normal?

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

B210E INTELLIGENT KEY UNIT

DTC Description

INFOID:0000000013550098

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B210E	00	Power supply	[NO SUBTYPE INFO]	Diagnosis condition	At Intelligent Key system action
				Signal (terminal)	–
				Threshold	Power supply (Intelligent Key unit): 16 V or more
				Diagnosis delay time	15 sec.

POSSIBLE CAUSE

Battery voltage is too high (16 V or more)

FAIL-SAFE

Inhibit Intelligent Key system

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-194, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013550099

1.CHECK SELF DIAGNOSTIC RESULT

Check DTC using CONSULT.

What is the display history of DTC “B210E-00”?

“PAST” >> GO TO 2.
“CRNT”>> GO TO 3.

2.ERASE DTC

1. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
2. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-194, "DTC Description".

Is DTC “B210E-00” detected?

YES >> GO TO 3.
NO >> Check intermittent incident. Refer to GI-56, "Intermittent Incident".

3.CHECK BATTERY VOLTAGE

1. Turn ignition switch OFF.
2. Measure the battery voltage.

Is the inspection result normal?

YES >> GO TO 4.
NO >> Perform battery inspection. Refer to PG-102, "MAIN BATTERY : How to Handle Battery".

4.CHECK POWER SUPPLY CIRCUIT

1. Disconnect Intelligent Key unit connector.
2. Check voltage between Intelligent Key unit harness connector and ground.

(+)		(–)	Voltage (Approx.)
Intelligent Key unit			
Connector	Terminal		
M149	15	Ground	12 V

Is the inspection result normal?

YES >> Replace Intelligent Key unit. Refer to DLK-285, "Removal and Installation".
NO >> Repair or replace harness.

B2261 INTELLIGENT KEY UNIT

DTC Description

INFOID:0000000013550100

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B2261	55	Intelligent Key unit	[NOT CONFIGURED]	Diagnosis condition	Ignition switch ON
				Signal (terminal)	–
				Threshold	Configuration data is corrupted
				Diagnosis delay time	–
	96		[CMPNENT INTERNAL MLFNCTN]	Diagnosis condition	When one of the following condition is satisfied • CONSULT function: self diagnostic result • Start engine and wait 3 minutes or more
				Signal (terminal)	–
				Threshold	Intelligent Key unit detected internal error
				Diagnosis delay time	–

POSSIBLE CAUSE (B2261-55)

Configuration work of Intelligent Key unit

POSSIBLE CAUSE (B2261-96)

Internal error in the Intelligent Key unit

FAIL-SAFE

Inhibit Intelligent Key system

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Start engine and wait 3 minutes or more.
3. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-196, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013550101

DTC “B2261-55”

1.CONFIGURATION WORK OF INTELLIGENT KEY UNIT

1. Perform configuration work of Intelligent Key unit. Refer to DLK-101, "Description".
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-196, "DTC Description".

Is DTC “B2261-55” detected?

YES >> Replace Intelligent Key unit. Refer to DLK-285, "Removal and Installation".
NO >> INSPECTION END

DTC “B2261-96”

1.CHECK CAN COMMUNICATION SYSTEM DIAGNOSIS

Perform the trouble diagnosis for CAN communication system. Refer to LAN-58, "Trouble Diagnosis Flow Chart".

Is the inspection result normal?

YES >> Replace Intelligent Key unit. Refer to DLK-285, "Removal and Installation".
NO >> Repair or replace harness.

U0019 INTELLIGENT KEY UNIT

DTC Description

INFOID:0000000013550102

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
U0019	14	Interior CAN communication	[CIRC SHORT TO GROUND OPEN]	Diagnosis condition	Ignition switch ON
				Signal (terminal)	–
				Threshold	Intelligent Key unit detected CAN communication circuit is open or short
				Diagnosis delay time	–
	88		[BUS OFF]	Diagnosis condition	Ignition switch ON
				Signal (terminal)	–
				Threshold	Intelligent Key unit cannot receives CAN signal
				Diagnosis delay time	–

POSSIBLE CAUSE (U0019-14)

- CAN communication
- Intelligent Key unit

POSSIBLE CAUSE (U0019-88)

- CAN communication
- Intelligent Key unit

FAIL-SAFE

Inhibit Intelligent Key system

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-198, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013550103

1.CHECK CAN COMMUNICATION SYSTEM DIAGNOSIS

Perform the trouble diagnosis for CAN communication system. Refer to LAN-58, "Trouble Diagnosis Flow Chart".

Is the inspection result normal?

YES >> Replace Intelligent Key unit. Refer to DLK-285, "Removal and Installation".
NO >> Repair or replace harness.

U0168 INTELLIGENT KEY UNIT

DTC Description

INFOID:0000000013550104

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
U0168	87	COMMUNICATION ERROR (LOST)	[MISSING MESSAGE]	Diagnosis condition	CAN communication: active
				Signal (terminal)	–
				Threshold	Electronic ignition switch control unit does not transmit signal on the CAN communication.
				Diagnosis delay time	–

POSSIBLE CAUSE

- CAN communication
- Electronic ignition switch control unit

FAIL-SAFE

–

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-199, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013550105

1.CHECK DTC WITH ELECTRONIC IGNITION SWITCH CONTROL UNIT

Check that DTC is not detected with electronic ignition switch control unit.

Is the inspection result normal?

YES >> GO TO 2.
NO >> Refer to PCS-12, "DTC Index".

2.CHECK CAN COMMUNICATION SYSTEM DIAGNOSIS

Perform the trouble diagnosis for CAN communication system. Refer to LAN-58, "Trouble Diagnosis Flow Chart".

Is the inspection result normal?

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

3.REPLACE ELECTRONIC IGNITION SWITCH CONTROL UNIT AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace electronic ignition switch control unit. Refer to PCS-47, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-199, "DTC Description".

Is DTC “U0168-87” detected?

YES >> Replace Intelligent Key unit. Refer to DLK-285, "Removal and Installation".
NO >> INSPECTION END

U0427 ELECTRONIC IGNITION SWITCH CONTROL UNIT

DTC Description

INFOID:0000000013550106

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
U0427	81	COMMUNICATION ERROR (INVALID)	[INVALID SERIAL DATA RECEIVED]	Diagnosis condition	CAN communication: active
				Signal (terminal)	CAN communication signal
				Threshold	Electronic ignition switch control unit transmits error signal to the Intelligent Key unit via CAN communication.
				Diagnosis delay time	–

POSSIBLE CAUSE

- CAN communication
- Electronic ignition switch control unit

FAIL-SAFE

–

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-201, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013550107

1.CHECK DTC WITH ELECTRONIC IGNITION SWITCH CONTROL UNIT

Check that DTC is not detected with electronic ignition switch control unit.

Is the inspection result normal?

YES >> GO TO 2.
NO >> Refer to PCS-12, "DTC Index".

2.CHECK CAN COMMUNICATION SYSTEM DIAGNOSIS

Perform the trouble diagnosis for CAN communication system. Refer to LAN-58, "Trouble Diagnosis Flow Chart".

Is the inspection result normal?

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

3.REPLACE ELECTRONIC IGNITION SWITCH CONTROL UNIT AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace electronic ignition switch control unit. Refer to PCS-47, "Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “INTELLIGENT KEY” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-201, "DTC Description".

Is DTC “U0427-81” detected?

YES >> Replace Intelligent Key unit. Refer to DLK-285, "Removal and Installation".
NO >> INSPECTION END

B1828 BACK DOOR OPENER ACTUATOR

DTC Description

INFOID:0000000013550108

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B1828	11	Remote trunk opening output signal	[CIRC SHORT TO GRND]	Diagnosis condition	Back door opener switch: pressed
				Signal (terminal)	Back door open signal
				Threshold	Harness to back door opener actuator is shorted to ground
				Diagnosis delay time	–
	13		[CIRC OPEN]	Diagnosis condition	Back door opener switch: pressed
				Signal (terminal)	Back door open signal
				Threshold	Harness to the back door opener actuator has a open circuit
				Diagnosis delay time	–

POSSIBLE CAUSE (B1828-11)

- Short to ground between circuit of back door opener actuator and BCM
- Back door opener actuator
- BCM

POSSIBLE CAUSE (B1828-13)

- Disconnection between back door opener actuator and BCM
- Back door opener actuator
- BCM

FAIL-SAFE

Inhibit back door open function

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Press back door opener switch.
3. Select “Self Diagnostic Result” mode of “BCM” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-203, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013550109

DTC “B1828-11”

1.CHECK BACK DOOR OPENER ACTUATOR INPUT SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM and back door lock assembly connector.
3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M28	67		Not existed

Is the inspection result normal?

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

2.ERASE DTC

1. Connect BCM and back door lock assembly connector.
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “BCM” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-203, "DTC Description".

Is DTC “B1828-11” detected?

YES >> GO TO 3.
NO >> INSPECTION END

3.REPLACE BACK DOOR OPENER ACTUATOR AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace back door lock assembly. Refer to DLK-273, "DOOR LOCK : Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “BCM” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-203, "DTC Description".

Is DTC “B1828-11” detected?

YES >> Replace BCM. Refer to BCS-248, "Removal and Installation".
NO >> INSPECTION END

DTC “B1828-13”

1.CHECK BACK DOOR OPENER ACTUATOR INPUT SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM and back door lock assembly connector.
3. Check continuity between BCM harness connector and back door lock assembly harness connector.

BCM		Back door lock assembly		Continuity
Connector	Terminal	Connector	Terminal	
M28	67	M161	4	Existed

Is the inspection result normal?

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

2.ERASE DTC

1. Connect BCM and back door lock assembly connector.
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “BCM” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-203, "DTC Description".

Is DTC “B1828-13” detected?

YES >> GO TO 3.
NO >> INSPECTION END

3.REPLACE BACK DOOR OPENER ACTUATOR AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace back door lock assembly. Refer to DLK-273, "DOOR LOCK : Removal and Installation".
3. Turn ignition switch ON.

4. Select “Self Diagnostic Result” mode of “BCM” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-203, "DTC Description".

Is DTC “B1828-13” detected?

YES >> Replace BCM. Refer to BCS-248, "Removal and Installation".
NO >> INSPECTION END

B186D BACK DOOR OPENER SWITCH

DTC Description

INFOID:0000000013550110

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B186D	2A	Trunk lid button (outside)	[SIGNAL STUCK IN RANGE]	Diagnosis condition	All times
				Signal (terminal)	Back door opener switch signal
				Threshold	The back door opener switch has a malfunction. There is no signal change (ON stuck).
				Diagnosis delay time	30 sec.

POSSIBLE CAUSE

- Harness or connectors (back door opener switch)
- Back door opener actuator
- BCM

FAIL-SAFE

Inhibit back door opener switch operation

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

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

Is DTC detected?

YES >> Refer to DLK-206, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013550111

1.CHECK SELF DIAGNOSTIC RESULT

Check DTC using CONSULT.

What is the display history of DTC “B186D-2A”?

“PAST” >> GO TO 2.
“CRNT”>> GO TO 3.

2.ERASE DTC

1. Select “Self Diagnostic Result” mode of “BCM” using CONSULT.
2. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-206, "DTC Description".

Is DTC “B186D-2A” detected?

YES >> GO TO 3.
NO >> Check intermittent incident. Refer to GI-56, "Intermittent Incident".

3.CHECK BACK DOOR OPENER SWITCH OPERATION

Check back door opener switch operation is normal.

Is the inspection result normal?

YES >> GO TO 4.
NO >> GO TO 7.

4.CHECK BACK DOOR OPENER SWITCH INPUT SIGNAL

1. Turn ignition switch OFF.
2. Check voltage between back door opener switch harness connector and ground.

(+)		(–)	Condition		Voltage (Approx.)
Back door opener switch					
Connector	Terminal				
M211	2	Ground	Back door opener switch	Pressed	0 V
				Other than above	12 V

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-248, "Removal and Installation".
NO >> GO TO 5.

5.CHECK BCM OUTPUT SIGNAL

1. Disconnect back door opener switch connector
2. Check voltage between back door opener switch harness connector and ground.

(+)		(–)	Voltage (Approx.)
Back door opener switch			
Connector	Terminal		
M211	2	Ground	12 V

Is the inspection result normal?

YES >> GO TO 7.
NO >> GO TO 6.

6.CHECK BCM OUTPUT SIGNAL CIRCUIT

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

Back door opener switch		Ground	Continuity
Connector	Terminal		
M211	2		Not existed

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-248, "Removal and Installation".
NO >> Repair or replace harness or connector.

7.REPLACE BACK DOOR OPENER SWITCH AND ERASE DTC

1. Replace back door opener switch. Refer to DLK-280, "Removal and Installation".
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “BCM” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-206, "DTC Description".

Is DTC “B186D-2A” detected?

YES >> Replace BCM. Refer to BCS-248, "Removal and Installation".
NO >> INSPECTION END

B18CC FUEL FILLER LID LOCK ACTUATOR

DTC Description

INFOID:0000000013550112

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B18CC	11	Fuel filler lid actuator output signal	[CIRC SHORT TO GRND]	Diagnosis condition	Fuel filler lid unlock function: activated
				Signal (terminal)	Fuel filler lid unlock signal
				Threshold	Harness to fuel filler lid lock actuator is shorted to ground
				Diagnosis delay time	–
	15		[CIRC SHORT TO BATTERY OR OPEN]	Diagnosis condition	Fuel filler lid unlock function: activated
				Signal (terminal)	Fuel filler lid unlock signal
				Threshold	Harness to the fuel filler lid lock actuator has a open circuit or shorted to battery
				Diagnosis delay time	–

POSSIBLE CAUSE (B18CC-11)

- Short to ground between circuit of fuel filler lid lock actuator and BCM
- Fuel filler lid lock actuator
- BCM

POSSIBLE CAUSE (B18CC-15)

- Disconnection between fuel filler lid lock actuator and BCM
- Short to battery between circuit of fuel filler lid lock actuator and BCM
- Fuel filler lid lock actuator
- BCM

FAIL-SAFE

Inhibit fuel filler lid unlock function

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Press fuel filler lid.
3. Select “Self Diagnostic Result” mode of “BCM” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-208, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013550113

DTC “B18CC-11”

1.CHECK FUEL FILLER LID LOCK ACTUATOR INPUT SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM and fuel filler lid lock assembly connector.
3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M28	106		Not existed

Is the inspection result normal?

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

2.ERASE DTC

1. Connect BCM and fuel filler lid lock assembly connector.
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “BCM” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-208, "DTC Description".

Is DTC “B18CC-11” detected?

YES >> GO TO 3.
NO >> INSPECTION END

3.REPLACE FUEL FILLER LID LOCK ACTUATOR AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace fuel filler lid lock assembly. Refer to DLK-275, "FUEL FILLER LID : Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “BCM” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-208, "DTC Description".

Is DTC “B18CC-11” detected?

YES >> Replace BCM. Refer to BCS-248, "Removal and Installation".
NO >> INSPECTION END

DTC “B18CC-15”

1.CHECK FUEL FILLER LID LOCK ACTUATOR INPUT SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM and fuel filler lid lock assembly connector.
3. Check continuity between BCM harness connector and fuel filler lid lock assembly harness connector.

BCM		Fuel filler lid lock assembly		Continuity
Connector	Terminal	Connector	Terminal	
M28	106	M29	3	Existed

4. Check voltage between BCM harness connector and ground.

(+)		(–)	Voltage (Approx.)
BCM			
Connector	Terminal		
M28	106	Ground	0 V

Is the inspection result normal?

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

2.ERASE DTC

1. Connect BCM and fuel filler lid lock assembly connector.
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “BCM” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-208, "DTC Description".

Is DTC “B18CC-15” detected?

YES >> GO TO 3.
NO >> INSPECTION END

3. REPLACE FUEL FILLER LID LOCK ACTUATOR AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace fuel filler lid lock assembly. Refer to DLK-275, "FUEL FILLER LID : Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “BCM” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-208, "DTC Description".

Is DTC “B18CC-15” detected?

YES >> Replace BCM. Refer to BCS-248, "Removal and Installation".
NO >> INSPECTION END

B18EB REAR DOOR LOCK ACTUATOR

DTC Description

INFOID:0000000013550114

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B18EB	11	Door lock actuator rl output signal (Door lock actuator rear left output signal)	[CIRC SHORT TO GRND]	Diagnosis condition	Door lock function: activated
				Signal (terminal)	Door lock/unlock signal
				Threshold	Harness to rear door lock actuator LH is shorted to ground
				Diagnosis delay time	–
	13		[CIRC OPEN]	Diagnosis condition	Door lock function: activated
				Signal (terminal)	Door lock/unlock signal
				Threshold	Harness to the rear door lock actuator LH has a open circuit
				Diagnosis delay time	–

POSSIBLE CAUSE (B18EB-11)

- Short to ground between circuit of rear door lock actuator LH and BCM
- Rear door lock actuator LH
- BCM

POSSIBLE CAUSE (B18EB-13)

- Disconnection between rear door lock actuator LH and BCM
- Rear door lock actuator LH
- BCM

FAIL-SAFE

Inhibit rear door LH lock/unlock operation

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Press door lock and unlock switch.
3. Select “Self Diagnostic Result” mode of “BCM” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-211, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013550115

DTC “B18EB-11”

1.CHECK REAR DOOR LOCK ACTUATOR INPUT SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM and rear door lock assembly LH connector.
3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M28	105		Not existed
	107		

Is the inspection result normal?

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

2.ERASE DTC

1. Connect BCM and rear door lock assembly LH connector.
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “BCM” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-211, "DTC Description".

Is DTC “B18EB-11” detected?

YES >> GO TO 3.
NO >> INSPECTION END

3.REPLACE REAR DOOR LOCK ACTUATOR AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace rear door lock assembly LH. Refer to DLK-270, "DOOR LOCK : Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “BCM” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-211, "DTC Description".

Is DTC “B18EB-11” detected?

YES >> Replace BCM. Refer to BCS-248, "Removal and Installation".
NO >> INSPECTION END

DTC “B18EB-13”

1.CHECK REAR DOOR LOCK ACTUATOR INPUT SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM and rear door lock assembly LH connector.
3. Check continuity between BCM harness connector and rear door lock assembly LH harness connector.

BCM		Rear door lock assembly LH		Continuity
Connector	Terminal	Connector	Terminal	
M28	105	D101	1	Existed
	107		2	

Is the inspection result normal?

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

2.ERASE DTC

1. Connect BCM and rear door lock assembly LH connector.
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “BCM” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-211, "DTC Description".

Is DTC “B18EB-13” detected?

YES >> GO TO 3.
NO >> INSPECTION END

3.REPLACE REAR DOOR LOCK ACTUATOR AND ERASE DTC

1. Turn ignition switch OFF.

2. Replace rear door lock assembly LH. Refer to DLK-270, "DOOR LOCK : Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “BCM” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-211, "DTC Description".

Is DTC “B18EB-13” detected?

YES >> Replace BCM. Refer to BCS-248, "Removal and Installation".
NO >> INSPECTION END

B18F3 REAR DOOR LOCK ACTUATOR

DTC Description

INFOID:0000000013550116

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B18F3	11	Door lock actuator rr output signal (Door lock actuator rear right output signal)	[CIRC SHORT TO GRND]	Diagnosis condition	Door lock function: activated
				Signal (terminal)	Door lock/unlock signal
				Threshold	Harness to rear door lock actuator RH is shorted to ground
				Diagnosis delay time	–
	13		[CIRC OPEN]	Diagnosis condition	Door lock function: activated
				Signal (terminal)	Door lock/unlock signal
				Threshold	Harness to the rear door lock actuator RH has a open circuit
				Diagnosis delay time	–

POSSIBLE CAUSE (B18F3-11)

- Short to ground between circuit of rear door lock actuator RH and BCM
- Rear door lock actuator RH
- BCM

POSSIBLE CAUSE (B18F3-13)

- Disconnection between rear door lock actuator RH and BCM
- Rear door lock actuator RH
- BCM

FAIL-SAFE

Inhibit rear door RH lock/unlock operation

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Press door lock and unlock switch.
3. Select “Self Diagnostic Result” mode of “BCM” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-214, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013550117

DTC “B18F3-11”

1.CHECK REAR DOOR LOCK ACTUATOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM and rear door lock assembly RH connector.
3. Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M27	59		Not existed
	60		

Is the inspection result normal?

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

2.ERASE DTC

1. Connect BCM and rear door lock assembly RH connector.
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “BCM” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-214, "DTC Description".

Is DTC “B18F3-11” detected?

YES >> GO TO 3.
NO >> INSPECTION END

3.REPLACE REAR DOOR LOCK ACTUATOR AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace rear door lock assembly RH. Refer to DLK-270, "DOOR LOCK : Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “BCM” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-214, "DTC Description".

Is DTC “B18F3-11” detected?

YES >> Replace BCM. Refer to BCS-248, "Removal and Installation".
NO >> INSPECTION END

DTC “B18F3-13”

1.CHECK REAR DOOR LOCK ACTUATOR CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM and rear door lock assembly RH connector.
3. Check continuity between BCM harness connector and rear door lock assembly RH harness connector.

BCM		Rear door lock assembly RH		Continuity
Connector	Terminal	Connector	Terminal	
M27	59	D121	1	Existed
	60		2	

Is the inspection result normal?

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

2.ERASE DTC

1. Connect BCM and rear door lock assembly RH connector.
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “BCM” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-214, "DTC Description".

Is DTC “B18F3-13” detected?

YES >> GO TO 3.
NO >> INSPECTION END

3.REPLACE REAR DOOR LOCK ACTUATOR AND ERASE DTC

1. Turn ignition switch OFF.

2. Replace rear door lock assembly RH. Refer to DLK-270, "DOOR LOCK : Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “BCM” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-214, "DTC Description".

Is DTC “B18F3-13” detected?

YES >> Replace BCM. Refer to BCS-248, "Removal and Installation".
NO >> INSPECTION END

B1F4B REAR DOOR LOCK ACTUATOR

DTC Description

INFOID:0000000013550120

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B1F4B	11	Door lock actuator rr output signal (Door lock actuator rear right output signal)	[CIRC SHORT TO GRND]	Diagnosis condition	Door lock function: activated
				Signal (terminal)	Door lock/unlock signal
				Threshold	Harness to rear door lock actuators are shorted to ground
				Diagnosis delay time	–

POSSIBLE CAUSE

- Short to ground between circuit of rear door lock actuator LH, rear door lock actuator RH, and BCM
- Rear door lock actuator LH and RH
- BCM

FAIL-SAFE

Inhibit rear door LH and RH lock/unlock operation

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Press door lock and unlock switch.
3. Select “Self Diagnostic Result” mode of “BCM” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-217, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013550121

1.CHECK REAR DOOR LOCK ACTUATOR INPUT SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM, rear door lock assembly LH and rear door lock assembly RH connector.
3. Check continuity between BCM harness connector and ground.

BCM			
Connector	Terminal	Ground	Continuity
M27	59		Not existed
	60		
M28	105		
	107		

Is the inspection result normal?

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

2.ERASE DTC

1. Connect BCM, rear door lock assembly LH and rear door lock assembly RH connector.
2. Turn ignition switch ON.

3. Select “Self Diagnostic Result” mode of “BCM” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-217, "DTC Description".

Is DTC “B1F4B-11” detected?

YES >> GO TO 3.
NO >> INSPECTION END

3. REPLACE REAR DOOR LOCK ACTUATOR LH AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace rear door lock assembly LH. Refer to DLK-270, "DOOR LOCK : Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “BCM” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-217, "DTC Description".

Is DTC “B1F4B-11” detected?

YES >> GO TO 4.
NO >> INSPECTION END

4. REPLACE REAR DOOR LOCK ACTUATOR RH AND ERASE DTC

1. Turn ignition switch OFF.
2. Replace rear door lock assembly RH. Refer to DLK-270, "DOOR LOCK : Removal and Installation".
3. Turn ignition switch ON.
4. Select “Self Diagnostic Result” mode of “BCM” using CONSULT.
5. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-217, "DTC Description".

Is DTC “B1F4B-11” detected?

YES >> Replace BCM. Refer to BCS-248, "Removal and Installation".
NO >> INSPECTION END

U1152 COMMUNICATION ERROR

DTC Description

INFOID:0000000013681962

DTC DETECTION LOGIC

DTC		CONSULT screen terms (Trouble diagnosis content)	CONSULT screen terms [Malfunction type]	DTC detecting condition	
U1152	87	Communication error (Communication error)	[MISSING MESSAGE]	Diagnosis	Turn ignition switch ON
				Signal (terminal)	—
				Threshold	Inside rear view mirror does not transmit signal on the LIN communication.
				Diagnosis delay time	—

POSSIBLE CAUSE

- Inside rear view mirror
- BCM
- Overhead control panel control unit
- LIN communication

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Check DTC in “Self Diagnostic Result” mode of “Universal garage door opener” using CONSULT.

Is the DTC detected?

YES >> Perform diagnosis procedure. Refer to DLK-219, "Diagnosis Procedure".
NO–1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO–2 >> Confirmation after repair: INSPECTION END.

Diagnosis Procedure

INFOID:0000000013681963

1.CHECK LIN COMMUNICATION CIRCUIT-1

1. Turn ignition switch OFF.
2. Disconnect BCM connector and overhead control panel control unit connector.
3. Check continuity between BCM harness connector and overhead control panel control unit harness connector.

BCM		Overhead control panel control unit		Continuity
Connector	Terminal	Connector	Terminal	
M28	109	M172	11	Existed

4. Check continuity between BCM harness connector and ground.

BCM		—	Continuity
Connector	Terminal		
M28	109	Ground	Not existed

Is the inspection result normal?

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

2.CHECK LIN COMMUNICATION CIRCUIT-2

1. Disconnect inside rear view mirror connector.

2. Check continuity between inside rear view mirror harness connector and overhead control panel control unit harness connector.

Inside rear view mirror		Overhead control panel control unit		Continuity
Connector	Terminal	Connector	Terminal	
M146	7	M171	1	Existed

3. Check continuity between inside rear view mirror harness connector and ground.

Inside rear view mirror		—	Continuity
Connector	Terminal		
M146	7	Ground	Not existed

Is the inspection result normal?

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

3. REPLACE INSIDE REAR VIEW MIRROR

1. Replace inside rear view mirror. Refer to MIR-66, "Removal and Installation".
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “Universal garage door opener” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-219, "DTC Description".

Is the DTC detected?

YES >> GO TO 4.
NO >> INSPECTION END

4. REPLACE OVERHEAD CONTROL PANEL CONTROL UNIT

1. Replace overhead control panel control unit. Refer to INL-114, "Removal and Installation".
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “Universal garage door opener” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to DLK-219, "DTC Description".

Is the DTC detected?

YES >> Replace BCM. Refer to BCS-248, "Removal and Installation"
NO >> INSPECTION END

B2269 GARAGE DOOR OPENER CONTROL UNIT

DTC Description

INFOID:0000000013624363

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B2269	01	Garage door opener (Garage door opener)	[ELECTRICAL MALFUNCTION]	Diagnosis condition	Turn ignition switch ON
				Signal (terminal)	LIN (roof) signal
				Threshold	Harness to inside rear view mirror has a open or short circuit
				Diagnosis delay time	2 sec.
	09		[COMPONENT FAILURES]	Diagnosis condition	Turn ignition switch ON
				Signal (terminal)	—
				Threshold	Garage door opener control unit internal malfunction
				Diagnosis delay time	2 sec.
	29		[SIGNAL INVALID]	Diagnosis condition	Turn ignition switch ON
				Signal (terminal)	Garage door opener control unit
				Threshold	Harness to inside rear view mirror has a open or short circuit
				Diagnosis delay time	2 sec.
	2A		[SIGNAL STUCK IN RANGE]	Diagnosis condition	Turn ignition switch ON
				Signal (terminal)	LIN (roof) signal
				Threshold	Harness to inside rear view mirror has a open or short circuit
				Diagnosis delay time	2 sec.
	86		[SIGNAL INVALID]	Diagnosis condition	Turn ignition switch ON
				Signal (terminal)	LIN (roof) signal
				Threshold	Harness to inside rear view mirror has a open or short circuit
				Diagnosis delay time	2 sec.

POSSIBLE CAUSE (B2269-01,29,2A,86)

- Short circuit between inside rear view mirror and overhead control panel control unit
- Disconnection between inside rear view mirror and overhead control panel control unit
- Inside rear view mirror (garage door opener control unit)
- Over head control panel control unit

POSSIBLE CAUSE (B2269-09)

- Inside rear view mirror (garage door opener control unit)
- Disconnection between inside rear view mirror and overhead control panel control unit

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.PERFORM DTC CONFIRMATION PROCEDURE

1. Turn ignition switch ON.
2. Select “Self Diagnostic Result” mode of “Universal garage door opener control unit” using CONSULT.

Is DTC detected?

YES >> Refer to DLK-222, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013624364

1.CHECK INSIDE REAR VIEW MIRROR POWER SUPPLY

1. Turn ignition switch OFF.
2. Disconnect inside rear view mirror connector.
3. Turn ignition switch ON.
4. Check voltage between inside rear view mirror connector and ground.

(+)		(–)	Voltage (Approx.)
Inside rear view mirror			
Connector	Terminal		
M146	6	Ground	12 V

Is the inspection result normal?

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

2.CHECK INSIDE REAR VIEW MIRROR POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect overhead control panel control unit connector.
3. Check continuity between inside rear view mirror harness connector and overhead control panel control unit harness connector.

Inside rear view mirror		Overhead control panel control unit		Continuity
Connector	Terminal	Connector	Terminal	
M146	6	M171	4	Existed

4. Check continuity between inside rear view mirror harness connector and ground.

Inside rear view mirror		Ground	Continuity
Connector	Terminal		
M146	6		Not existed

Is the inspection result normal?

YES >> Replace overhead control panel control unit. Refer to INL-114, "Removal and Installation".
NO >> Repair or replace harness.

3.CHECK INSIDE REAR VIEW MIRROR GROUND CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect overhead control panel control unit connector.
3. Check continuity between inside rear view mirror harness connector and overhead control panel control unit harness connector.

Inside rear view mirror		Overhead control panel control unit		Continuity
Connector	Terminal	Connector	Terminal	
M146	5	M171	7	Existed

Is the inspection result normal?

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

4. CHECK INSIDE REAR VIEW MIRROR SIGNAL CIRCUIT

1. Check continuity between inside rear view mirror harness connector and overhead control panel control unit harness connector.

Inside rear view mirror		Overhead control panel control unit		Continuity
Connector	Terminal	Connector	Terminal	
M146	7	M171	1	Existed

2. Check continuity between inside rear view mirror harness connector and ground.

Inside rear view mirror		Ground	Continuity
Connector	Terminal		
M146	7		Not existed

Is the inspection result normal?

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

5. REPLACE INSIDE REAR VIEW MIRROR

1. Replace inside rear view mirror. Refer to MIR-66, "Removal and Installation".
2. Turn ignition switch ON.
3. Select “Self Diagnostic Result” mode of “Universal garage door opener control unit” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to MIR-63, "DTC Description".

Is the DTC detected?

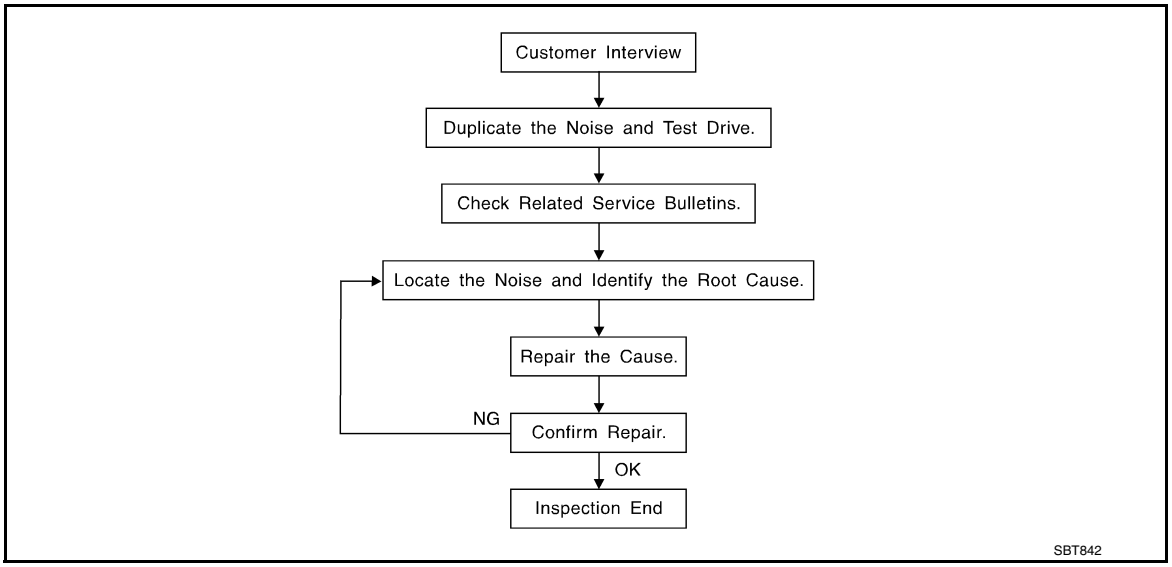
YES >> Replace overhead control panel control unit. Refer to INL-114, "Removal and Installation".
NO >> INSPECTION END.

SYMPTOM DIAGNOSIS

SQUEAK AND RATTLE TROUBLE DIAGNOSES

Work Flow

INFOID:0000000013790338



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 comments. Refer to DLK-228, "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, perform a diagnosis and repair the noise that the customer is concerned about. This can be accomplished by performing a test drive with the customer.
- After identifying the type of noise, isolate the noise in terms of its characteristics. The noise characteristics are provided so that the customer, service adviser, and technician use the same language when describing 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 = high-pitched noise / softer surfaces = low-pitched 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 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 sounds / 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 / dull sounds often brought on by activity.
- Buzz – (Like a bumblebee)
  Buzz characteristics include high frequency rattle / firm contact.
- Often the degree of acceptable noise level varies depending upon the person. A noise that a technician may judge as acceptable may be very irritating to a 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 the repair is reconfirmed.
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 items:
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 models, drive position on 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 the 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, and mechanics 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 to be the cause of the noise.
  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 to be the cause of the noise.
  Do not tap or push/pull the component with excessive force, otherwise the noise is eliminated only temporarily.
- Feeling for a vibration by hand by touching the component(s) that is (are) suspected to be the cause of the noise.
- Placing a piece of paper between components that you suspect to be the cause of the noise.
- Looking for loose components and contact marks.
  Refer to DLK-226, "Inspection Procedure".

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 components, 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 the authorized NISSAN Parts Department.

CAUTION:
Never 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 following materials are contained in the NISSAN Squeak and Rattle Kit (J-50397). Each item can be ordered separately as needed.
URETHANE PADS [1.5 mm (0.059 in) thick]
Insulates connectors, harness, etc.
- 76268-9E005: 100 × 135 mm (3.937 × 5.315 in)
- 76884-71L01: 60 × 85 mm (2.362 × 3.346 in)
- 76884-71L02: 15 × 25 mm (0.591 × 0.984 in)

INSULATOR (Foam blocks)
Insulates components from contact. Can be used to fill space behind a panel.
- 73982-9E000: 45 mm (1.772 in) thick, 50 × 50 mm (1.969 × 1.969 in)
- 73982-50Y00: 10 mm (0.394 in) thick, 50 × 50 mm (1.969 × 1.969 in)

INSULATOR (Light foam block)
80845-71L00: 30 mm (1.181 in) thick, 30 × 50 mm (1.181 × 1.969in)
FELT CLOTHTAPE

Used to insulate where movement does not occur. Ideal for instrument panel applications.
- 68370-4B000: 15 × 25 mm (0.591 × 0.984 in) pad
- 68239-13E00: 5 mm (0.197 in) wide tape roll

The following materials, not found in the kit, can also be used to repair squeaks and rattles.
UHMW (TEFLON) TAPE
Insulates where slight movement is present. Ideal for instrument panel applications.
SILICONE GREASE
Used in place of UHMW tape that is visible or does not fit. Only lasts a few months.
SILICONE SPRAY
Used when grease cannot be applied.
DUCT TAPE
Used to eliminate movement.

CONFIRM THE REPAIR

After repair is complete, test drive the vehicle to confirm that the cause of 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.

Inspection Procedure

INFOID:0000000013790339

Refer to Table of Contents for specific component removal and installation information.

INSTRUMENT PANEL

Most incidents are caused by contact and movement between:

1. The cluster lid A and instrument panel
2. Acrylic lens and combination meter housing
3. Instrument panel to front pillar garnish
4. Instrument panel to windshield
5. Instrument panel mounting 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 silicon spray (in hard to reach areas). Urethane pads can be used to insulate wiring harness.
   CAUTION:
   Never use silicone spray to isolate a squeak or rattle. If the area is saturated with silicone, the recheck of repair becomes impossible.

CENTER CONSOLE

Components to check include:

1. Shifter 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

Check the following items:

1. Finisher and inner panel making a slapping noise
2. Inside handle escutcheon connection to door finisher
3. Wiring harnesses tapping
4. Door striker out of alignment causing a popping noise on starts and stops

Tapping, moving the components, or pressing on them while driving to duplicate the conditions can isolate many of these incidents. The areas can usually be insulated 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 customer.
In addition check for the following items:

1. Trunk lid dumpers out of adjustment
2. Trunk lid striker out of adjustment
3. 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 items:

1. Sunroof lid, rail, linkage, or seals making a rattle or light knocking noise
2. Sunvisor 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.

SEATS

When isolating seat noise it is important to note the position the seat is in and the load placed on the seat when the noise occurs. These conditions should be duplicated when verifying and isolating the cause of the noise.

Causes 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 mounted to the engine wall
2. Components that pass through the engine wall
3. Engine wall mounts and connectors
4. Loose radiator mounting 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.

Diagnostic Worksheet

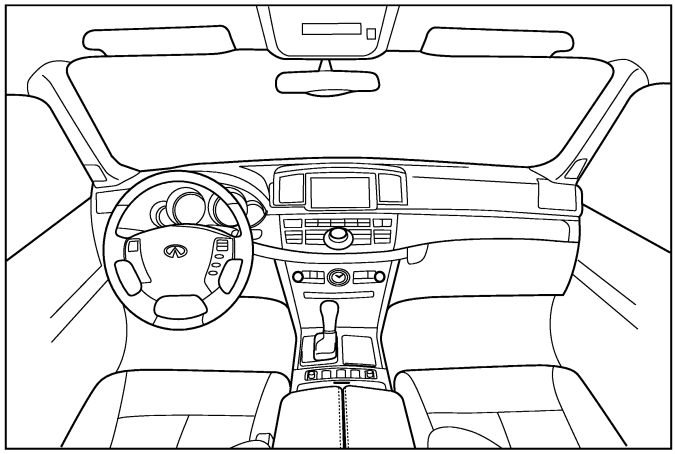
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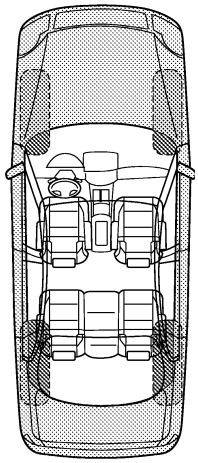
INFINITI

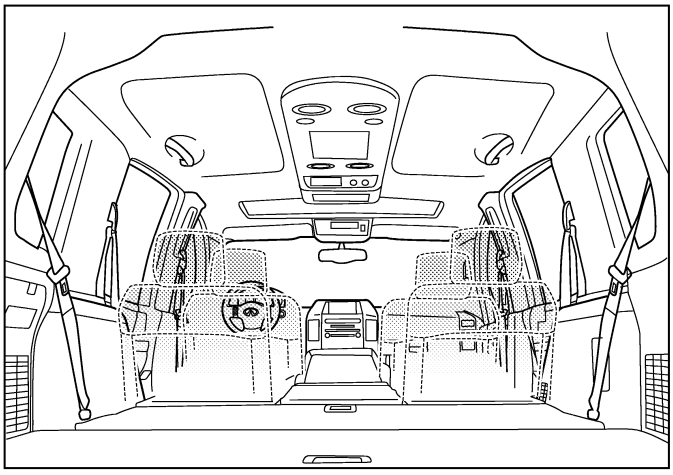
SQUEAK & RATTLE
DIAGNOSTIC WORKSHEET

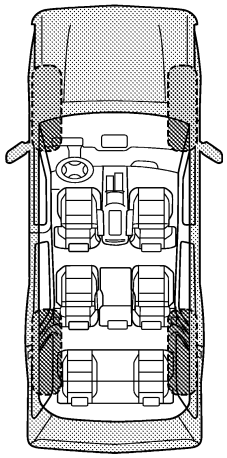
Dear Infiniti Customer:
We are concerned about your satisfaction with your Infiniti vehicle. Repairing a squeak or rattle sometimes can be very difficult. To help us fix your Infiniti right the first time, please take a moment to note the area of the vehicle where the squeak or rattle occurs and under what conditions. You may be asked to take a test drive with a service consultant or technician to ensure we confirm the noise you are hearing.

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.

PIIB8741E

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)

- ☐ anytime
- ☐ 1st time in the morning
- ☐ only when it is cold outside
- ☐ only when it is hot outside
- ☐ after sitting out in the rain
- ☐ when it is raining or wet
- ☐ dry or dusty conditions
- ☐ 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	☐	☐	_____
- Noise verified on test drive	☐	☐	_____
- Noise source located and repaired	☐	☐	_____
- Follow up test drive performed to confirm repair	☐	☐	_____

VIN: _____ Customer Name: _____

W.O.# _____ Date: _____

This form must be attached to Work Order

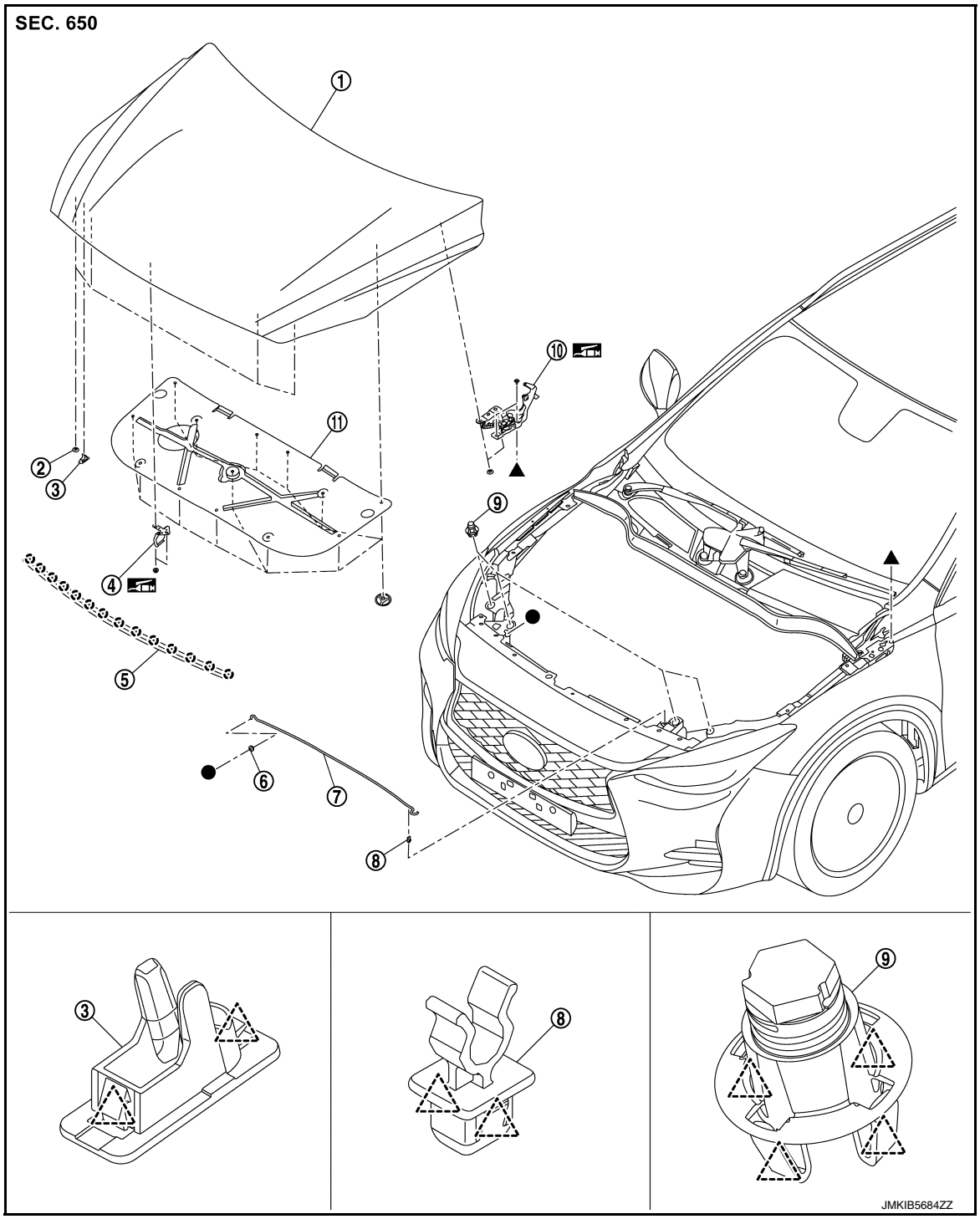
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REMOVAL AND INSTALLATION

HOOD

Exploded View

INFOID:0000000013563135



① Hood assembly
② Plug
③ Hood support rod bracket
④ Hood striker
⑤ Hood seal
⑥ Grommet
⑦ Hood support rod
⑧ Hood support rod mounting bracket
⑨ Hood bumper rubber
⑩ Hood hinge
⑪ Hood insulator

: Clip

: Pawl

: Body grease

●, ▲: Indicates that the part is connected at points with same symbol in actual vehicle.

HOOD ASSEMBLY

HOOD ASSEMBLY : Removal and Installation

INFOID:0000000013563136

CAUTION:
- **Perform work with 2 workers, because it is heavy weight.**
- **Support hood with a proper material and use protective tape or shop cloth to protect hood and body from falling and damage when removing and installing hood assembly.**

REMOVAL

1. Disconnect washer nozzle tubes from check valve, and then disengage front washer tube fixing clips from hood. Refer to WW-74, "WASHER NOZZLE & TUBE : Removal and Installation".
2. Support hood assembly with a proper material to prevent it from falling.

   WARNING:
   Injury may occur if hood assembly is not supported with a proper material when removing hood assembly.
3. Remove hood assembly mounting nuts, and then remove hood assembly.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

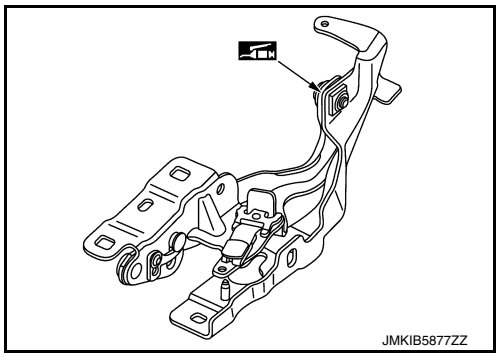
CAUTION:
- **Before installation, apply anticorrosive agent onto mounting surface.**
- **After installation, perform the fitting adjustment. Refer to DLK-232, "HOOD ASSEMBLY : Adjustment".**
- **After installation, apply touch-up paint (the body color) if the paint around hinge is peeled off during removal.**
- **After installation, check the open/close operation.**

HOOD ASSEMBLY : Inspection

INFOID:0000000013563137

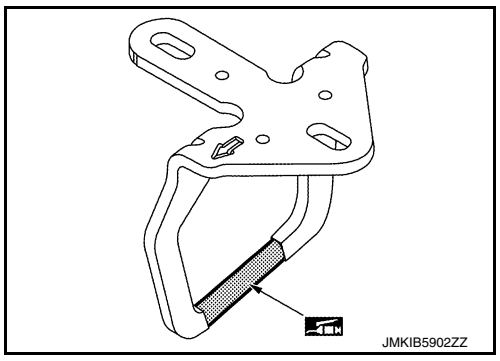
1. Open and close hood. Check that hood hinge rotation portion moves smoothly.
2. Check hood hinge rotating part for poor lubrication. Apply body grease if necessary.

   : Body grease



3. Check hood striker contacting part for poor lubrication. Apply body grease if necessary.

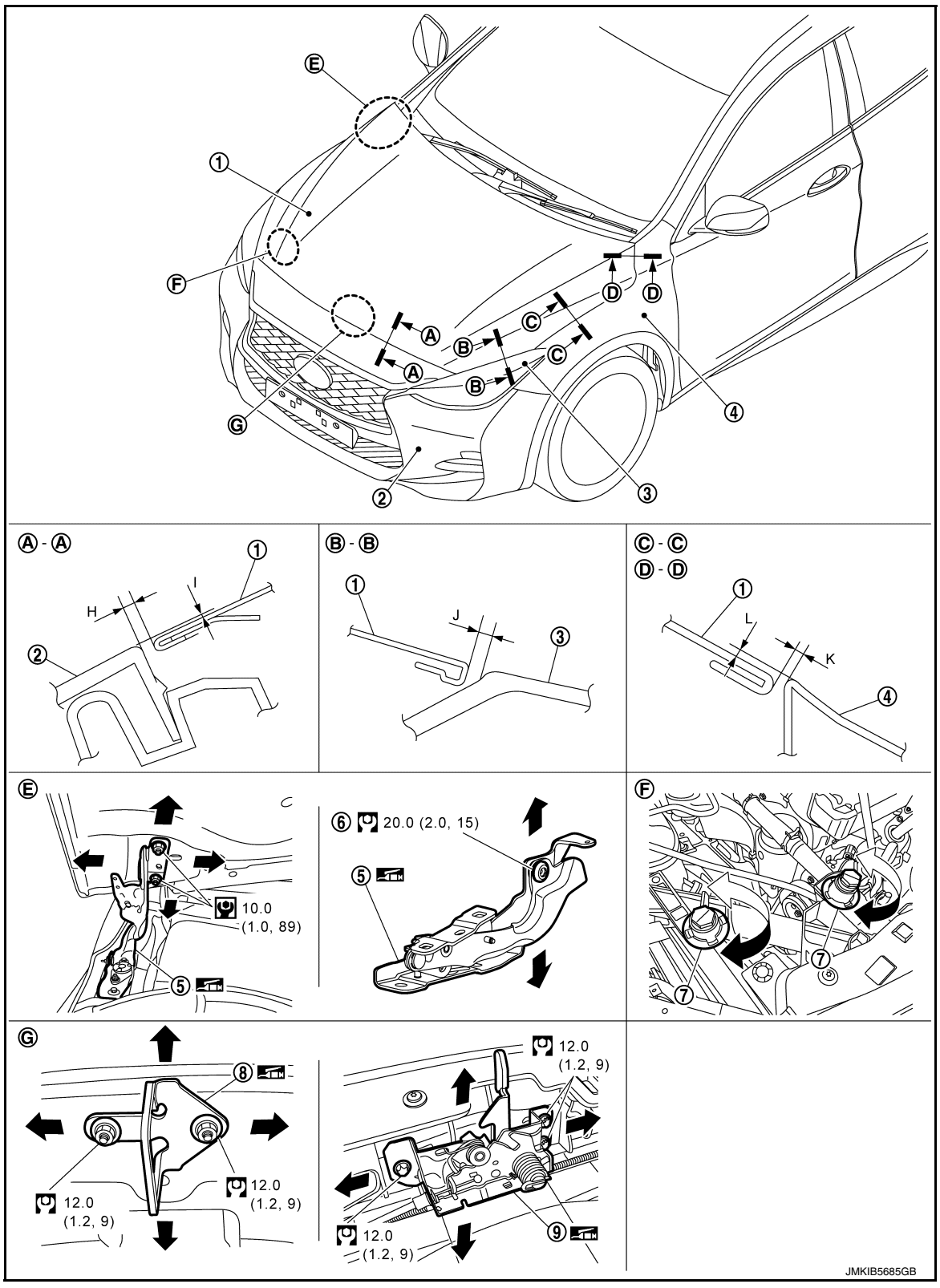
   : Body grease



HOOD ASSEMBLY : Adjustment

INFOID:0000000013563138

FITTING ADJUSTMENT



① Hood assembly
② Front bumper fascia
③ Front combination lamp
④ Front fender
⑤ Hood hinge
⑥ Hood hinge axle bolt

⑦ Hood bumper rubber ⑧ Hood striker ⑨ Hood lock assembly

: N·m (kg-m, in-lb)

: N·m (kg-m, ft-lb)

: Body grease

Fitting Adjustment Standard Dimension

Check the clearance and the surface height between hood and each part by visually and touching.
If the clearance and the surface height are out of specification, adjust them according to the procedures shown below.

Unit: mm [in]

Portion				Standard	Difference (RH/LH, MAX)
Hood ① – Front bumper fascia ②	Ⓐ – Ⓐ	H	Clearance	1.5 – 5.5 [0.059 – 0.217]	—
		I	Surface height	(–0.5) – (+2.5) [(–0.020) – (+0.098)]	≤ 2.0 [0.079]
Hood ① – Front combination lamp ③	Ⓑ – Ⓑ	J	Clearance	0.8 – 4.8 [0.031 – 0.189]	—
Hood ① – Front fender ④	Ⓒ – Ⓒ	K	Clearance	2.0 – 4.0 [0.079 – 0.157]	≤ 1.5 [0.059]
		L	Surface height	(–1.7) – (+0.3) [(–0.067) – (+0.012)]	≤ 1.5 [0.059]
	Ⓓ – Ⓓ	K	Clearance	2.5 – 4.5 [0.098 – 0.177]	≤ 1.5 [0.059]
		L	Surface height	(–1.0) – (+1.0) [(–0.039) – (+0.039)]	≤ 1.5 [0.059]

Fitting Adjustment Procedure

1. Loosen hood striker mounting nuts and hood hinge mounting nuts.
2. Adjust the clearance of hood assembly according to the fitting adjustment standard dimension by moving hood assembly.
3. Tighten hood striker mounting nuts and hood hinge mounting nuts to the specified torque.
4. Remove roof side molding. Refer to EXT-48, "Removal and Installation".
5. Loosen hood hinge axle bolts.
6. Adjust the surface height of hood assembly (rear side) according to the fitting adjustment standard dimension by moving hood assembly.
7. Tighten hood hinge axle bolts to the specified torque.
8. Remove air duct (inlet). Refer to EM-23, "Removal and Installation"
9. Remove hood lock switch assembly, and then loosen hood lock assembly mounting bolts. Refer to DLK-261, "HOOD LOCK : Removal and Installation".
10. Screw hood bumper rubbers completely down.
11. Adjust the surface height of hood assembly (front side) according to the fitting adjustment standard dimension by moving hood assembly.
12. Tighten hood lock assembly mounting bolts to the specified torque.
13. Screw hood bumper rubbers up until hood assembly makes contact with hood bumper rubbers when hood closed.
14. Install the following part.
    - Roof side molding: Refer to EXT-48, "Removal and Installation".
    - Hood lock switch assembly: Refer to DLK-261, "HOOD LOCK : Removal and Installation".
    - Air duct (inlet): Refer to EM-23, "Removal and Installation".

15. After adjusting, check the open/close operation.
    CAUTION:
    After adjusting, apply [teroson multi-wax spray (Henkel Loctite www.Loctite.de), or equivalent and cavity preservation, solvent-free (1L container) (Pfinder KG) or equivalent] to hood hinge for anti-corrosive.

HOOD STRIKER

HOOD STRIKER : Removal and Installation

INFOID:0000000013563139

REMOVAL

Remove hood striker mounting nuts, and then remove hood striker.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- **When installation, perform the fitting adjustment. Refer to DLK-232, "HOOD ASSEMBLY : Adjustment".**
- **After installation, check the open/close operation.**

HOOD HINGE

HOOD HINGE : Removal and Installation

INFOID:0000000013563140

CAUTION:

- **Perform work with 2 workers, because hood is heavy weight.**
- **Support hood with a proper material and use protective tape or shop cloth to protect hood and body from falling and damage when removing and installing hood assembly.**

REMOVAL

1. Remove hood assembly. Refer to DLK-231, "HOOD ASSEMBLY : Removal and Installation".
   CAUTION:
   2 workers are required to support hood.
2. Remove roof side molding. Refer to EXT-48, "Removal and Installation".
3. Remove upper mounting bolt of front fender assembly.
4. Remove front fender drip cover fixing clip.
5. Remove hood hinge mounting bolts, and then remove hood hinge.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- **Before installation, apply anticorrosive agent onto mounting surface.**
- **After installation, perform the fitting adjustment. Refer to DLK-232, "HOOD ASSEMBLY : Adjustment".**
- **After installation, apply touch-up paint (the body color) if the paint around hinge is peeled off during removal.**
- **After installation, check the open/close operation.**

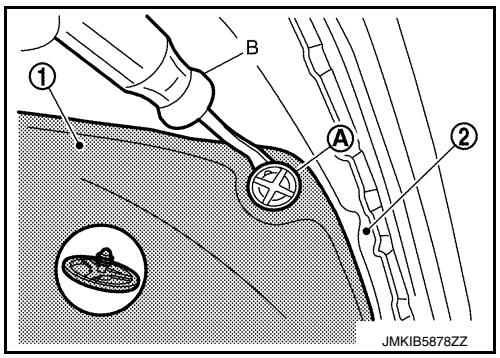
HOOD INSULATOR

HOOD INSULATOR : Removal and Installation

INFOID:0000000013563141

REMOVAL

1. Disengage fixing clip Ⓐ using a remover tool (B), and then remove hood insulator ①.
CAUTION:
Never damage hood assembly ②.



INSTALLATION
Install in the reverse order of removal.

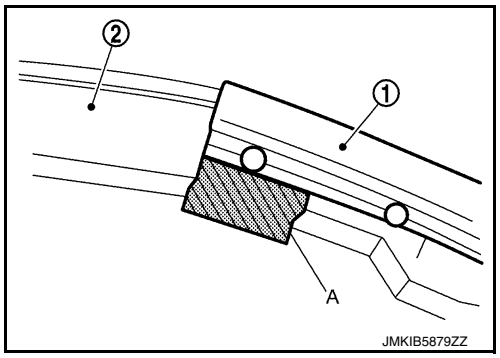
HOOD SEAL

HOOD SEAL : Removal and Installation

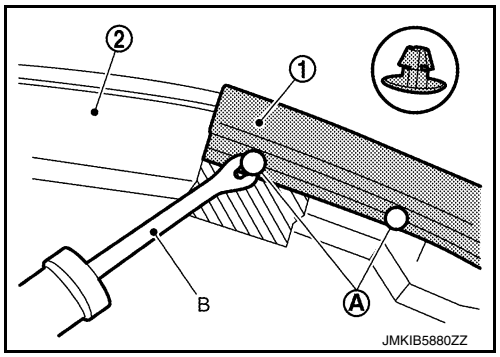
INFOID:0000000013563142

REMOVAL

1. Apply protective tape (A) to hood assembly ② around hood seal ① fixing clips for preventing damage.



2. Disengage fixing clips Ⓐ using a remover tool (B), and then remove hood seal ①.
CAUTION:
Never damage hood assembly ②.

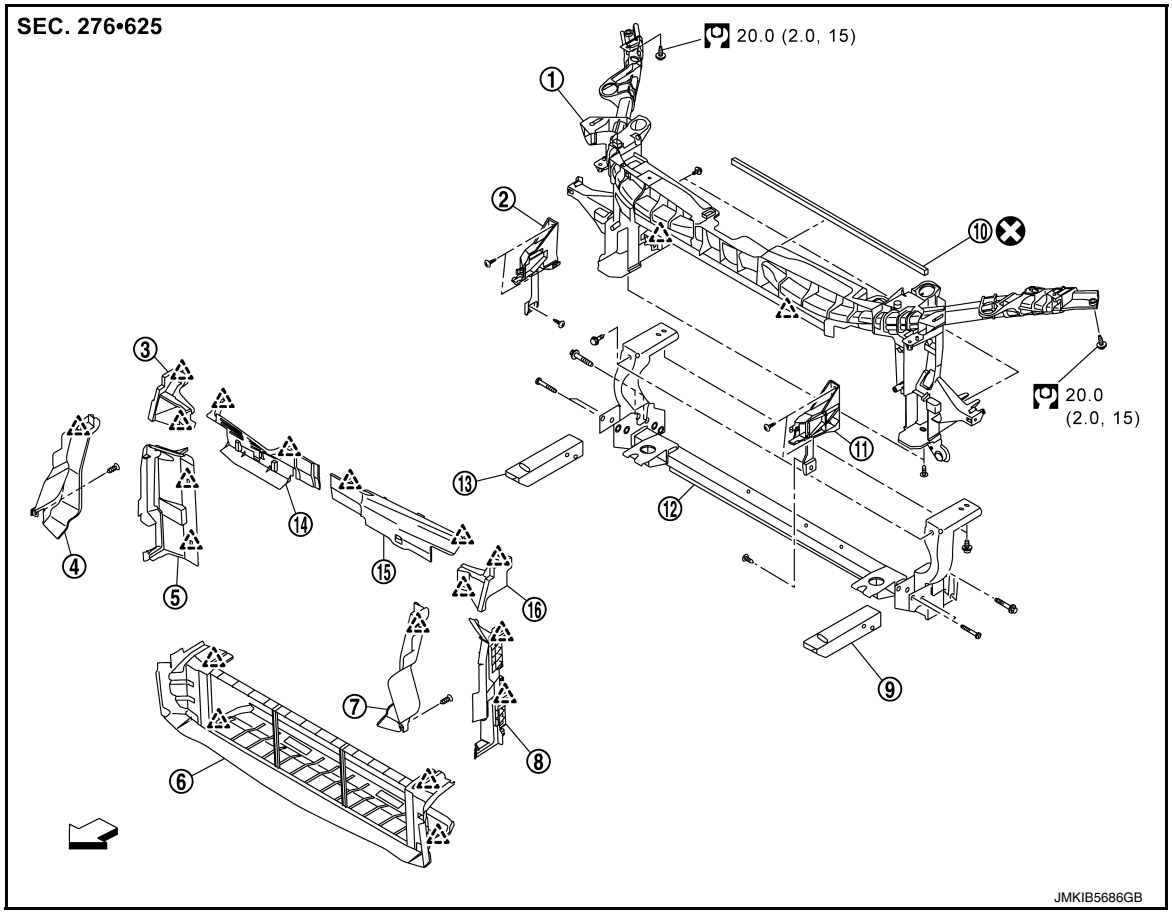


INSTALLATION
Install in the reverse order of removal.

RADIATOR CORE SUPPORT

Exploded View

INFOID:0000000013563143



① Radiator core support upper	② Front bumper side retainer RH	③ Air guide RH
④ Radiator side air guide RH	⑤ Radiator air guide RH	⑥ Radiator lower air guide
⑦ Radiator side air guide LH	⑧ Radiator air guide LH	⑨ Radiator core support lower member LH
⑩ Radiator core seal	⑪ Front bumper side retainer LH	⑫ Radiator core support lower
⑬ Radiator core support lower member RH	⑭ Radiator core support cover RH	⑮ Radiator core support cover LH
⑯ Air guide LH		

: Pawl

: Vehicle front

: Always replace after every disassembly.

: N·m (kg-m, ft-lb)

Removal and Installation

INFOID:0000000013563144

CAUTION:

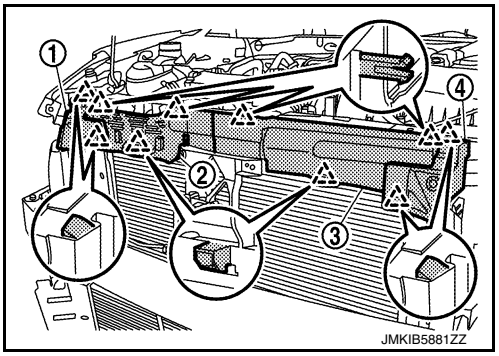
- **Support hood with a proper material and use protective tape or shop cloth to protect hood and body from falling and damage when removing and installing radiator core support upper.**
- **Never damage or scratch on radiator core, condenser core and charge air cooler core when removing and installing.**

RADIATOR CORE SUPPORT UPPER

Removal

1. Remove air duct (inlet). Refer to EM-23, "Removal and Installation".
2. Remove front bumper fascia assembly, front bumper energy absorber and front bumper reinforcement. Refer to EXT-21, "Removal and Installation".
3. Remove front combination lamp (LH and RH).
   - LED headlamp: Refer to EXL-290, "Removal and Installation".
   - Halogen headlamp: Refer to EXL-514, "Removal and Installation"
4. Remove front bumper side retainer (LH and RH) fixing screws, and then remove front bumper side retainer (LH and RH).
5. Remove hood lock assembly mounting bolts, and then move hood lock assembly to a location where it does not inhibit work. Refer to DLK-261, "HOOD LOCK : Removal and Installation".
6. Disengage fixing pawls, and then remove air guide (RH ① and LH ④) and radiator core support cover (RH ② and LH ③).

   △ : Pawl



7. Remove ICC sensor bracket mounting bolts, and then remove ICC sensor bracket and ICC sensor to a location where it does not inhibit work (if equipped). Refer to CCS-340, "Removal and Installation".
8. Remove radiator upper mounting pin. Refer to CO-13, "Exploded View".
9. Disengage harness fixing clips from radiator core support upper.
10. Support hood assembly with a proper material to prevent it from falling, and then remove hood support rod from radiator core support upper.

    WARNING:
    Injury may occur if hood assembly is not supported with a proper material when removing hood assembly.
11. Use belts etc. to support radiator, condenser, cooling fan unit assembly and charge air cooler to prevent them from falling.

    CAUTION:
    Never damage radiator, condenser, cooling fan unit assembly and charge air cooler.
12. Remove radiator core support upper mounting bolts, and then remove radiator core support upper.

Installation

Note the following item, and then Install in the reverse order of removal.

CAUTION:
Apply [cavity preservation, solvent-free (1L container) (Pfinder KG) or equivalent] to each connections on vehicle body for anticorrosive.

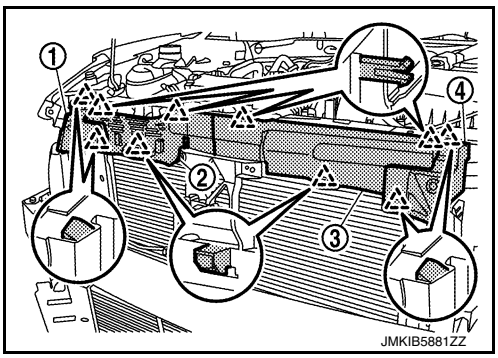
RADIATOR CORE SUPPORT LOWER

Removal

1. Remove engine under cover. Refer to EXT-44, "ENGINE UNDER COVER : Removal and Installation".
2. Remove apron bracket assembly. Refer to EXT-21, "Removal and Installation".

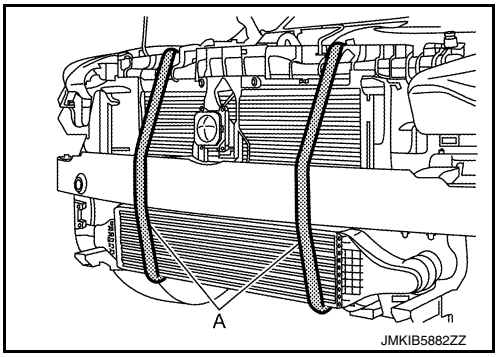
3. Disengage fixing pawls, and then remove air guide (RH ① and LH ④) and radiator core support cover (RH ② and LH ③).

△ : Pawl



4. Disengage radiator lower air guide fixing pawls, and then remove radiator lower air guide.
5. Use belts (A) to suspend radiator, condenser, cooling fan unit assembly and charge air cooler to prevent them from falling as shown in the figure.

CAUTION:
Never damage radiator, condenser and cooling fan unit assembly and charge air cooler.



6. Remove radiator core support lower mounting bolts, and then remove radiator core support lower.

Installation

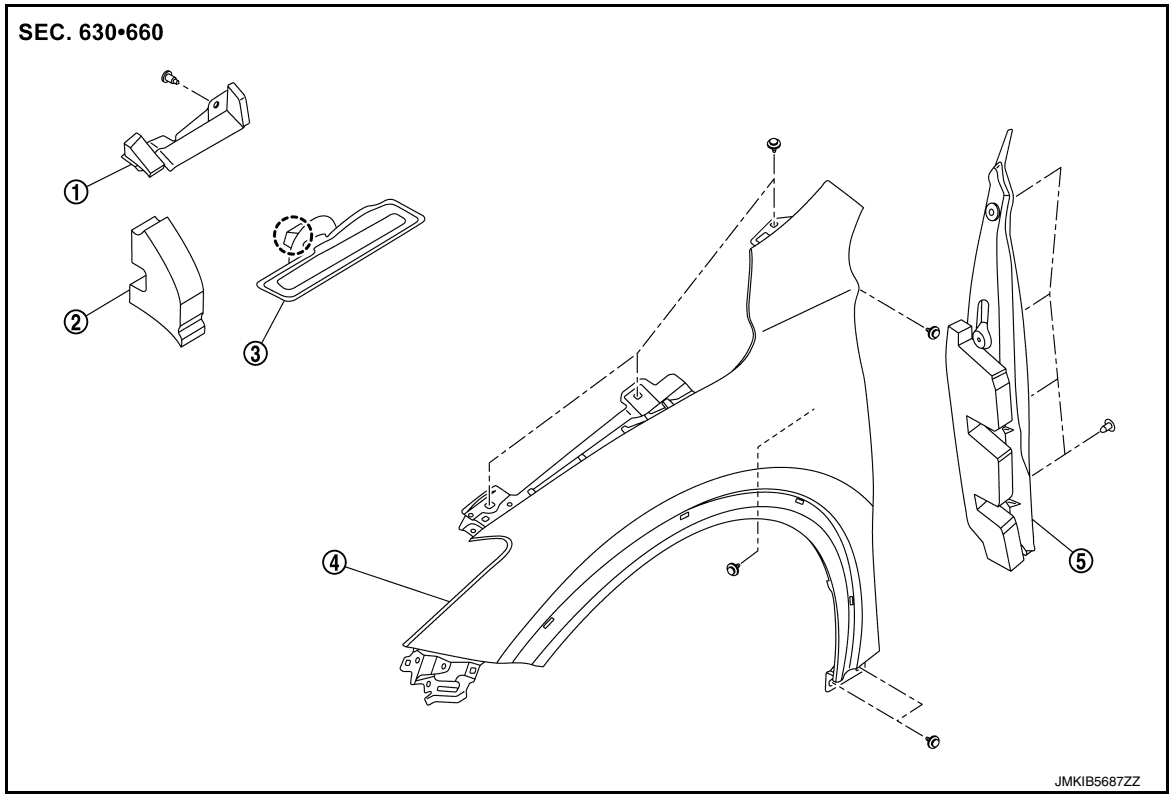
Note the following item, and then Install in the reverse order of removal.

CAUTION:
Apply [cavity preservation, solvent-free (1L container) (Pfinder KG) or equivalent] to each connections on vehicle body for anticorrosive.

FRONT FENDER

Exploded View

INFOID:0000000013563145



① Front fender drip cover ② Front fender insulator (if equipped) ③ Front fender insulator (if equipped)
④ Front fender assembly ⑤ Front fender baffle (if equipped)
: Clip

FRONT FENDER

FRONT FENDER : Removal and Installation

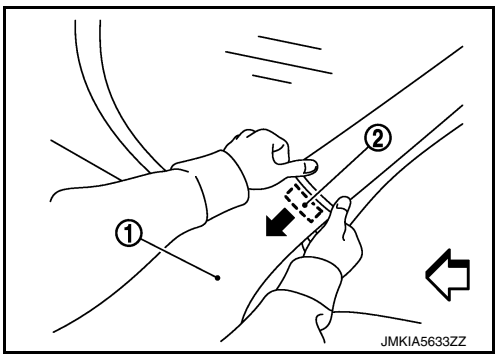
INFOID:0000000013563146

REMOVAL

1. Remove roof side molding. Refer to EXT-48, "Removal and Installation".
2. Remove front bumper fascia assembly. Refer to EXT-21, "Removal and Installation".
3. Remove front combination lamp.
   - LED headlamp: Refer to EXL-290, "Removal and Installation".
   - Halogen headlamp: Refer to EXL-514, "Removal and Installation"
4. Remove front fender protector. Refer to EXT-41, "FENDER PROTECTOR : Removal and Installation".
5. Remove front fender assembly mounting bolts.

6. Remove front fender stiffener ② from the vehicle body while carefully pulling upper portion of front fender ① toward vehicle outside.

⇦ : Vehicle front



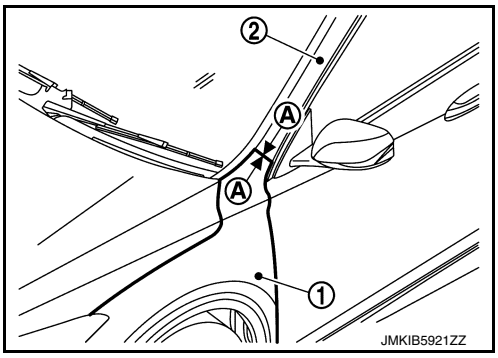
7. Remove front fender assembly.
CAUTION:
A viscous urethane foam is installed on the back surface of front fender. When removing the front fender, never deform the front fender while performing the procedure and removing the viscous urethane foam a little at a time.
8. Remove front fender baffle fixing clips, and then remove front fender baffle from front fender (if equipped).
9. Remove front fender insulators from vehicle body (if equipped).

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:
- **After installation, perform the fitting adjustment.**
- **Hood assembly: Refer to DLK-232, "HOOD ASSEMBLY : Adjustment".**
- **Front door assembly: Refer to DLK-243, "DOOR ASSEMBLY : Adjustment".**
- **After installation, apply touch-up paint (the body color) onto the head of front fender mounting bolts.**

NOTE:
- The following table shows the specified values for checking normal installation status.
- Fitting adjustment cannot be performed.



Unit: mm [in]

Portion			Standard
Front fender ① – Front pillar ②	Ⓐ – Ⓐ	Clearance	2.0 – 4.0 [0.079 – 0.157]
		Surface height	(–1.0) – (+1.0) [(–0.039) – (+0.039)]

FRONT FENDER DRIP COVER

FRONT FENDER DRIP COVER : Removal and Installation

INFOID:0000000013563147

REMOVAL

Remove fixing clips, and then remove front fender drip cover.

INSATALLATION

Install in the reverse order of removal.

FRONT FENDER BAFFLE

FRONT FENDER BAFFLE : Removal and Installation

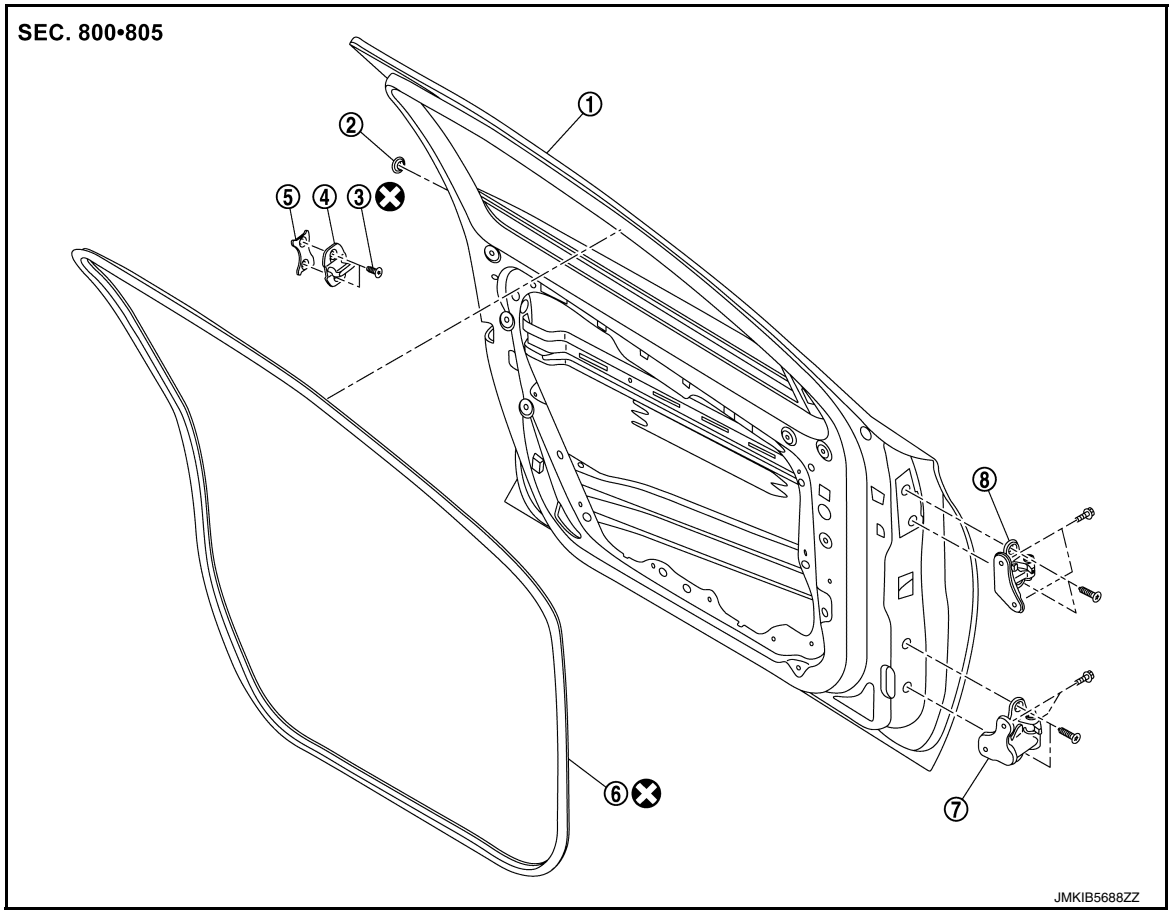
INFOID:0000000013563148

Refer to DLK-239, "FRONT FENDER : Removal and Installation".

FRONT DOOR

Exploded View

INFOID:0000000013563149



① Front door panel	② Grommet	③ TORX bolt
④ Door striker	⑤ Door striker plate	⑥ Front door weather-strip
⑦ Door hinge (lower)	⑧ Door hinge (upper)	

⊗ : Always replace after every disassembly.

DOOR ASSEMBLY

DOOR ASSEMBLY : Removal and Installation

INFOID:0000000013563150

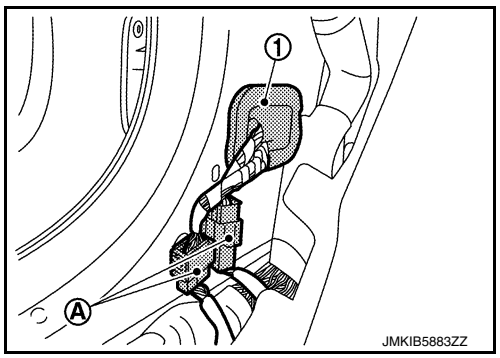
CAUTION:

- **Perform work with 2 workers, because it is heavy weight.**
- **Support door with a proper material and use protective tape or shop cloth to protect door and body from falling and damage when removing and installing door assembly.**

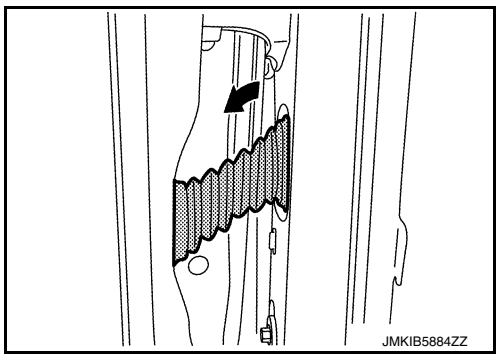
REMOVAL

1. Remove front kicking plate. Refer to INT-25, "KICKING PLATE INNER : Removal and Installation".

2. Disconnect front door harness connectors Ⓐ and remove front pillar inner lower insulator ①.



3. Remove front door harness grommet from vehicle body, and then pull out front door harness.



4. Support door assembly with a proper material to prevent it from falling.

WARNING:
Injury may occur if door assembly is not supported with a proper material when removing door assembly.

5. Remove door hinge mounting bolts (door side), and then remove front door assembly.

CAUTION:
2 workers are required to support door.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- **After installation, perform the fitting adjustment. Refer to DLK-243, "DOOR ASSEMBLY : Adjustment".**
- **After installation, check the open/close operation.**

DOOR ASSEMBLY : Inspection

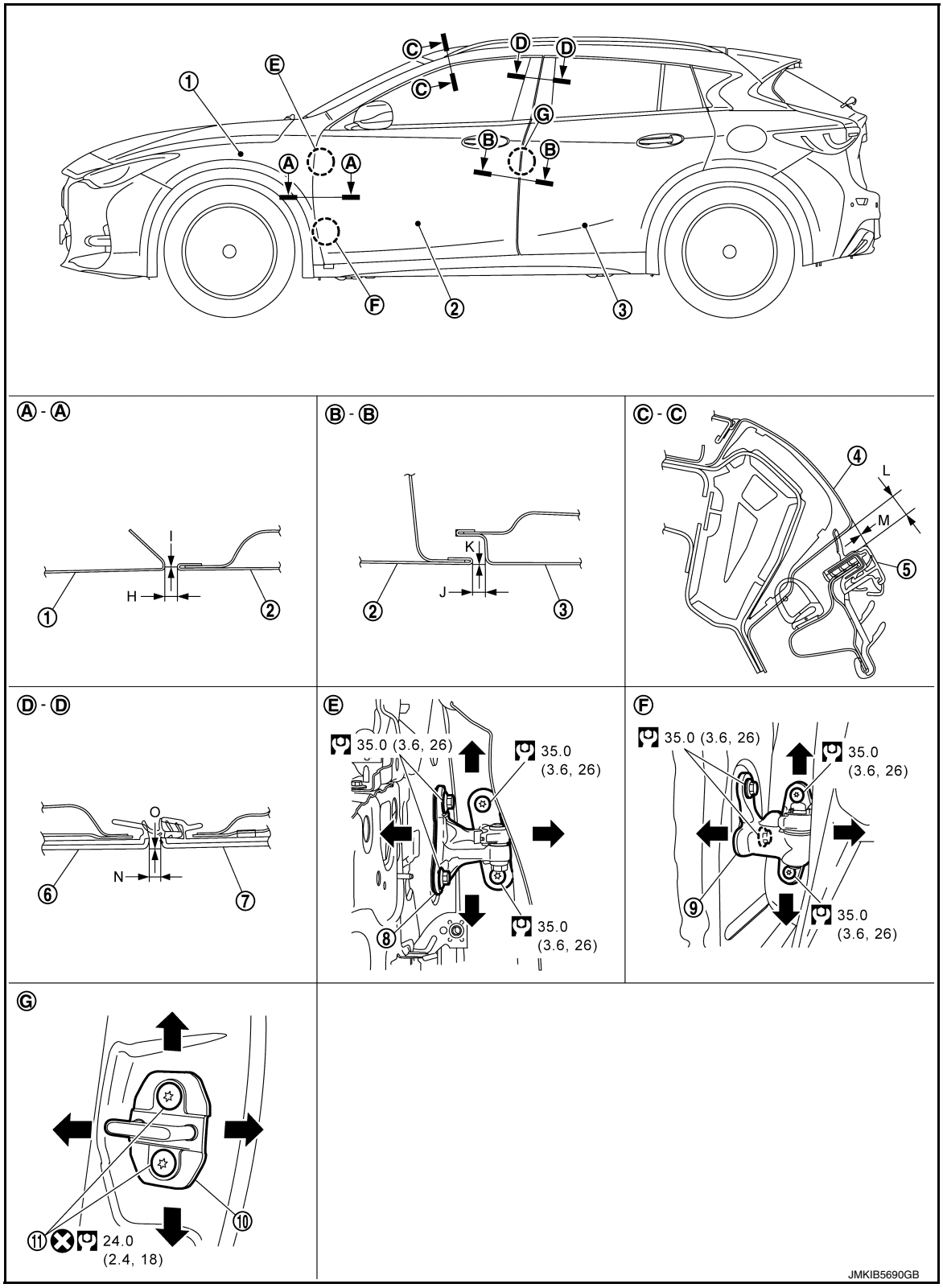
INFOID:0000000013563151

Open and close door. Check that door hinge and check link rotation portion moves smoothly.

DOOR ASSEMBLY : Adjustment

INFOID:0000000013563152

FITTING ADJUSTMENT



① Front fender
② Front door
③ Rear door
④ Body side outer
⑤ Front door sash molding
⑥ Front door sash cover
⑦ Rear door sash cover
⑧ Door hinge (upper)
⑨ Door hinge (lower)
⑩ Door striker
⑪ TORX bolt

: Always replace after every disassembly.

: N·m (kg-m, ft-lb)

Fitting Adjustment Standard Dimension

Check the clearance and surface height between front door and each part by visually and touching.
If the clearance and the surface height are out of specification, adjust them according to the procedures shown below.

Unit: mm [in]

Portion				Standard
Front fender ① – Front door ②	Ⓐ – Ⓐ	H	Clearance	3.5 – 5.5 [0.138 – 0.217]
		I	Surface height	(–1.0) – (+1.0) [(–0.039) – (+0.039)]
Front door ② – Rear door ③	Ⓑ – Ⓑ	J	Clearance	3.5 – 5.5 [0.138 – 0.217]
		K	Surface height	(–1.0) – (+1.0) [(–0.039) – (+0.039)]
Body side outer ④ – Front door sash molding ⑤	Ⓒ – Ⓒ	L	Clearance	6.7 – 9.7 [0.264 – 0.382]
		M	Surface height	(–1.5) – (+1.5) [(–0.059) – (+0.059)]
Front door sash cover ⑥ – Rear door sash cover ⑦	Ⓓ – Ⓓ	N	Clearance	3.2 – 6.8 [0.126 – 0.268]
		O	Surface height	(–1.3) – (+1.3) [(–0.051) – (+0.051)]

Fitting Adjustment Procedure

1. Check that front door sash molding, front door sash cover and rear door sash cover are installed normally.
2. Remove door striker mounting TORX bolts, and then remove door striker and door striker plate.
   CAUTION:
   Never reuse TORX bolt. Always replace it with a new one when it is removed.
3. Loosen door hinge mounting bolts (vehicle body side).
4. Adjust the clearance of front door (front side) according to the fitting adjustment standard dimension by moving front door panel.
5. Tighten door hinge mounting bolts (vehicle body side) to the specified torque.
   CAUTION:
   After tightening, apply touch-up paint (the body color) onto the head of hinge mounting bolts.
6. Loosen door hinge mounting bolts (door side).
7. Adjust the surface height of front door (front side) according to the fitting adjustment standard dimension by moving front door panel.
8. Tighten door hinge mounting bolts (door side) to the specified torque.
   CAUTION:
   After tightening, apply touch-up paint (the body color) onto the head of hinge mounting bolts.
9. Temporarily install door striker and door striker plate.
10. Adjust the clearance and surface height of front door (rear side) according to the fitting adjustment standard dimension by moving front door panel and door striker.
    CAUTION:
    Adjust door striker so that it becomes parallel with door lock insertion direction.
11. Tighten door striker mounting TORX bolts to the specified torque.
12. After adjusting, check the open/close operation.

DOOR STRIKER

DOOR STRIKER : Removal and Installation

INFOID:0000000013563153

CAUTION:
Never reuse TORX bolt. Always replace it with a new one when it is removed.

REMOVAL

Remove door striker mounting TORX bolts, and then remove door striker and door striker plate.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:
- **When installation, perform the fitting adjustment. Refer to DLK-243, "DOOR ASSEMBLY : Adjustment".**
- **After installation, check the open/close operation.**

DOOR HINGE

DOOR HINGE : Removal and Installation

INFOID:0000000013563154

CAUTION:
- **Perform work with 2 workers, because door is heavy weight.**
- **Support door with a proper material and use protective tape or shop cloth to protect door and body from falling and damage when removing and installing door assembly.**

REMOVAL

1. Remove front door assembly. Refer to DLK-242, "DOOR ASSEMBLY : Removal and Installation".
   CAUTION:
   2 workers are required to support door.
2. Remove door hinge mounting bolts (vehicle body side), and then remove door hinge.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:
- **Before installation, apply anticorrosive agent onto the mounting surface.**
- **After installation, perform the fitting adjustment. Refer to DLK-243, "DOOR ASSEMBLY : Adjustment".**
- **After installation, apply touch-up paint (the body color) onto the head of door hinge mounting bolts.**
- **After installation, check the open/close operation.**

DOOR WEATHER-STRIP

DOOR WEATHER-STRIP : Removal and Installation

INFOID:0000000013563155

CAUTION:
Never reuse front door weather-strip. Always replace it with a new one when it is removed.

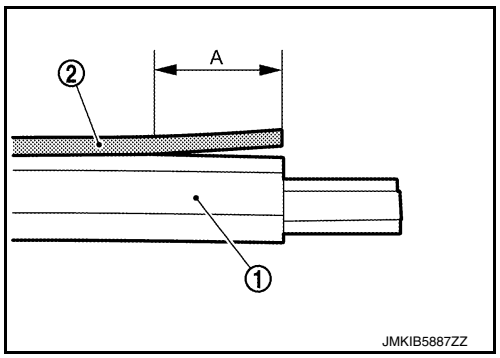
REMOVAL

Pull up and remove front door weather-strip.

INSTALLATION

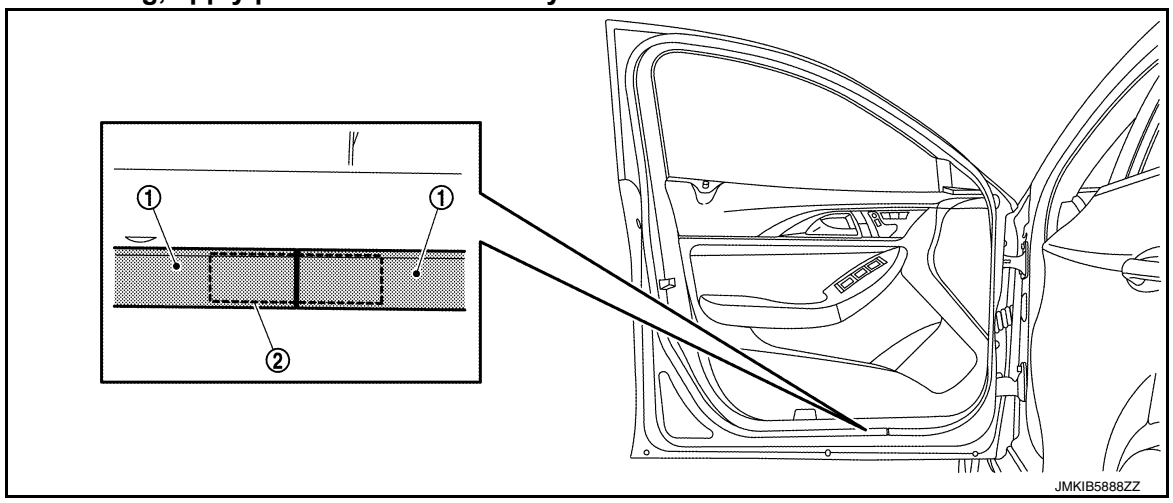
CAUTION:
Remove front door weather-strip remaining on front door panel and clean the mating surface of front door panel with [cleaner (Henkel AG & Co. KGaA) or equivalent], before installing front door weather-strip.

1. Detach spacer tape ② approx. 20 mm (0.79 in) (A) at one end of new front door weather-strip ①.

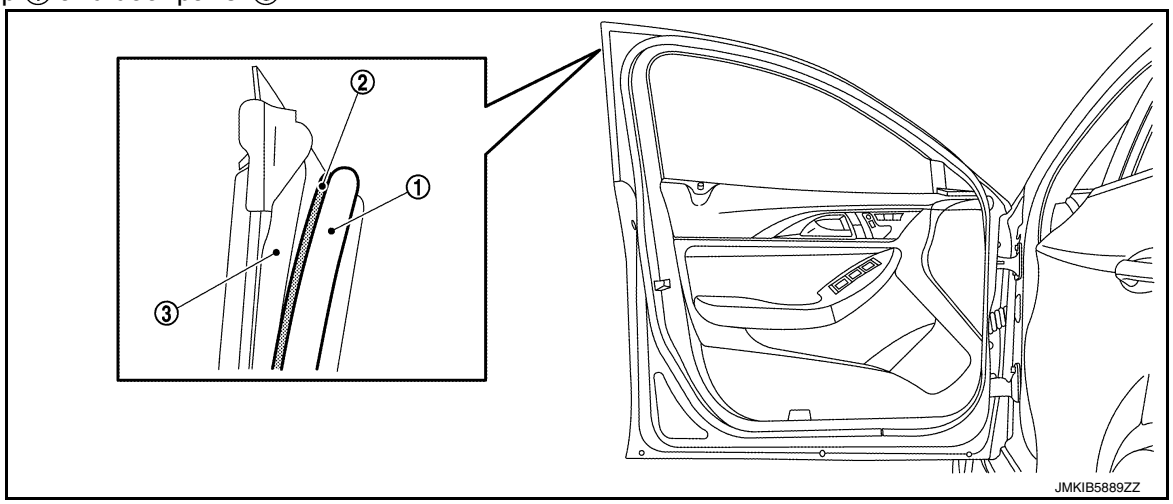


2. Working from the center of door bottom, affix front door weather-strip to front door panel.
CAUTION:
Contact spacer tape with door panel over the entire length without gap.

3. Cut off protrusion of front door weather-strip ① at door bottom, and then connect the two ends of front door weather-strip by inserting weather-strip insert ② to cut end of front door weather-strip.
CAUTION:
- **Cut off protrusion so that there is no gap between the two ends of front door weather-strip as shown in the figure.**
- **After affixing, apply pressure to affix surely.**



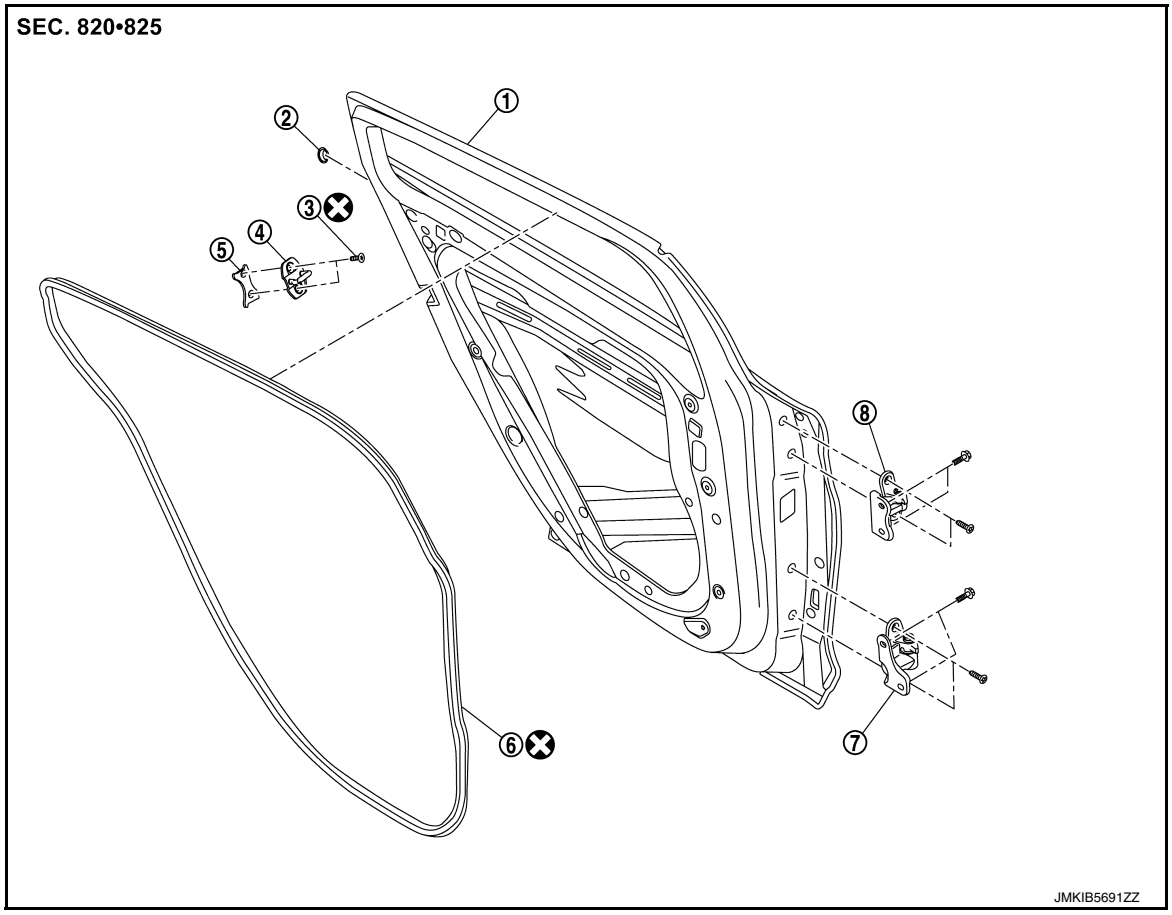
4. Working from detached end of spacer tape ②, remove spacer tape completely form front door weather-strip ① and door panel ③.



REAR DOOR

Exploded View

INFOID:0000000013563156



① Rear door panel	② Grommet	③ TORX bolt
④ Door striker	⑤ Door striker plate	⑥ Rear door weather-strip
⑦ Door hinge (lower)	⑧ Door hinge (upper)	

⊠ : Always replace after every disassembly.

DOOR ASSEMBLY

DOOR ASSEMBLY : Removal and Installation

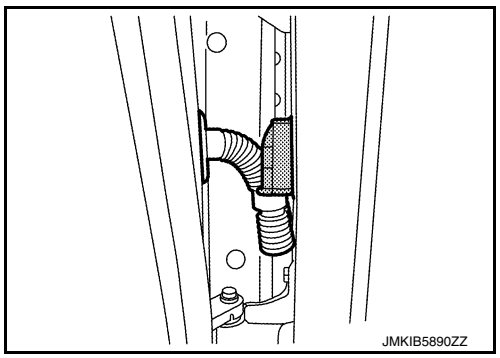
INFOID:0000000013563157

CAUTION:

- **Perform work with 2 workers, because it is heavy weight.**
- **Support door with a proper material and use protective tape or shop cloth to protect door and body from falling and damage when removing and installing door assembly.**

REMOVAL

1. Disconnect rear door harness connector.



2. Support door assembly with a proper material to prevent it from falling.

WARNING:
Injury may occur if door assembly is not supported with a proper material when removing door assembly.

3. Remove door hinge mounting bolts (door side), and then remove rear door assembly.

CAUTION:
2 workers are required to support door.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- **After installation, perform the fitting adjustment. Refer to DLK-249, "DOOR ASSEMBLY : Adjustment".**
- **After installation, check the open/close operation.**

DOOR ASSEMBLY : Inspection

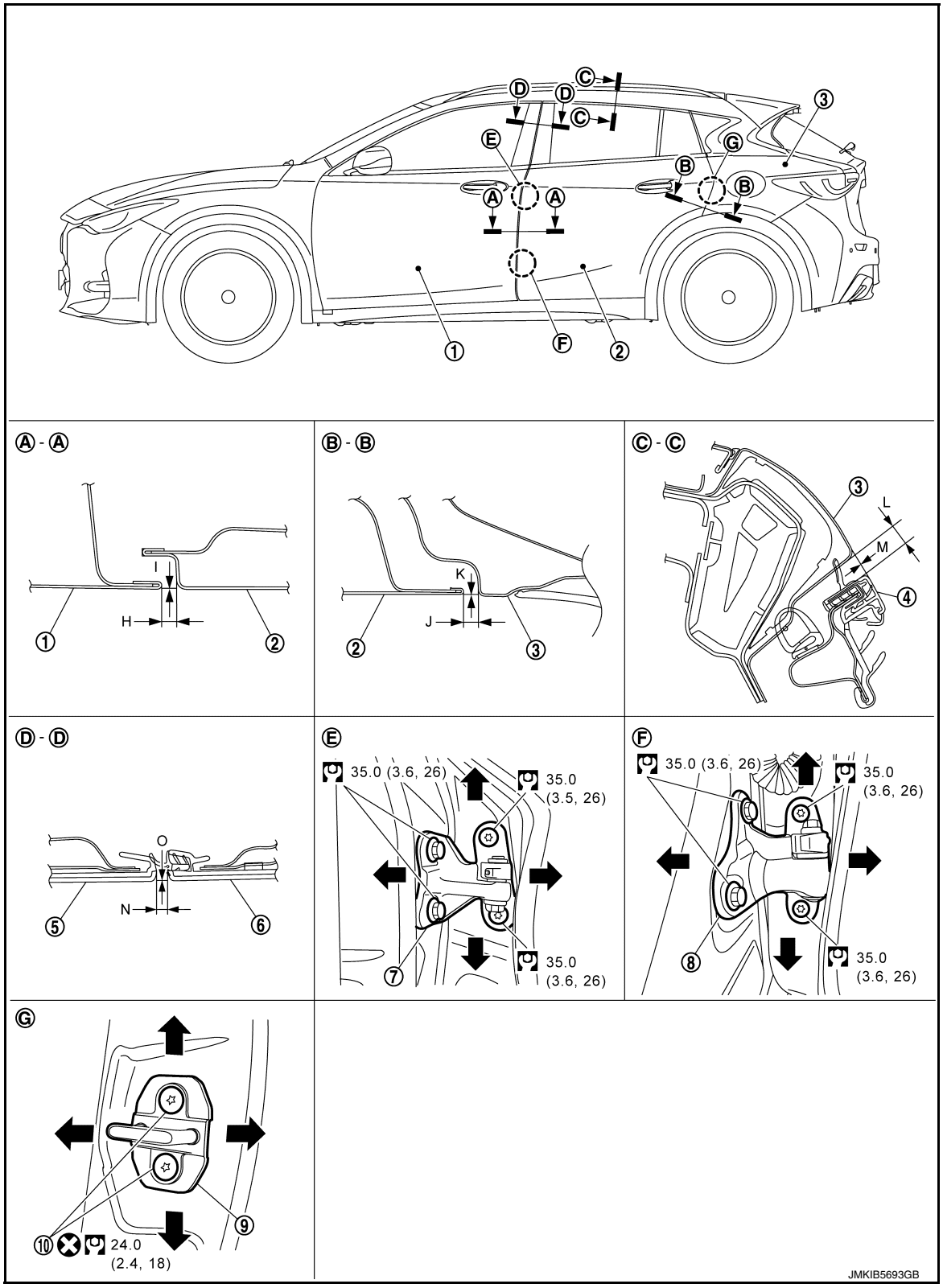
INFOID:0000000013563158

Open and close door. Check that door hinge and check link rotation portion moves smoothly.

DOOR ASSEMBLY : Adjustment

INFOID:0000000013563159

FITTING ADJUSTMENT



① Front door
② Rear door
③ Body side outer
④ Rear door sash molding
⑤ Front door sash cover
⑥ Rear door sash cover
⑦ Door hinge (upper)
⑧ Door hinge (lower)
⑨ Door striker
⑩ TORX bolt

: Always replace after every disassembly.

: N·m (kg-m, ft-lb)

Fitting Adjustment Standard Dimension

Check the clearance and surface height between front door and each part by visually and touching.
If the clearance and the surface height are out of specification, adjust them according to the procedures shown below.

Unit: mm [in]

Portion				Standard
Front door ① – Rear door ②	Ⓐ – Ⓐ	H	Clearance	3.5 – 5.5 [0.138 – 0.217]
		I	Surface height	(–1.0) – (+1.0) [(–0.039) – (+0.039)]
Rear door ② – Body side outer ③	Ⓑ – Ⓑ	J	Clearance	3.5 – 5.5 [0.138 – 0.217]
		K	Surface height	(–1.0) – (+1.0) [(–0.039) – (+0.039)]
Body side outer ③ – Rear door sash molding ⑥	Ⓒ – Ⓒ	L	Clearance	6.7 – 9.7 [0.264 – 0.382]
		M	Surface height	0.2 – 3.2 [0.008 – 0.126]
Front door sash cover ⑤ – Rear door sash cover ⑥	Ⓓ – Ⓓ	N	Clearance	3.2 – 6.8 [0.126 – 0.268]
		O	Surface height	(–1.3) – (+1.3) [(–0.051) – (+0.051)]

Fitting Adjustment Procedure

1. Check that rear door sash molding, front door sash cover and rear door sash cover are installed normally.
2. Remove door striker mounting TORX bolts, and then remove door striker and door striker plate.
   CAUTION:
   Never reuse TORX bolt. Always replace it with a new one when it is removed.
3. Loosen door hinge mounting bolts (vehicle body side).
4. Adjust the clearance of rear door (front side) according to the fitting adjustment standard dimension by moving rear door panel.
5. Tighten door hinge mounting bolts (vehicle body side) to the specified torque.
   CAUTION:
   After tightening, apply touch-up paint (the body color) onto the head of hinge mounting bolts.
6. Loosen door hinge mounting bolts (door side).
7. Adjust the surface height of rear door (front side) according to the fitting adjustment standard dimension by moving rear door panel.
8. Tighten door hinge mounting bolts (door side) to the specified torque.
   CAUTION:
   After tightening, apply touch-up paint (the body color) onto the head of hinge mounting bolts.
9. Temporarily install door striker and door striker plate.
10. Adjust the clearance and surface height of rear door (rear side) according to the fitting adjustment standard dimension by moving rear door panel and door striker.
    CAUTION:
    Adjust door striker so that it becomes parallel with door lock insertion direction.
11. Tighten door striker mounting TORX bolts to the specified torque.
12. After adjusting, check the open/close operation.

DOOR STRIKER

DOOR STRIKER : Removal and Installation

INFOID:0000000013563160

CAUTION:
Never reuse TORX bolt. Always replace it with a new one when it is removed.

REMOVAL

Remove door striker mounting TORX bolts, and then remove door striker and door striker plate.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:
- **When installation, perform the fitting adjustment. Refer to DLK-249, "DOOR ASSEMBLY : Adjustment".**
- **After installation, check the open/close operation. Refer to DLK-249, "DOOR ASSEMBLY : Inspection".**

DOOR HINGE

DOOR HINGE : Removal and Installation

INFOID:0000000013563161

CAUTION:
- **Perform work with 2 workers, because door is heavy weight.**
- **Support door with a proper material and use protective tape or shop cloth to protect door and body from falling and damage when removing and installing door assembly.**

REMOVAL

1. Remove rear door assembly. Refer to DLK-248, "DOOR ASSEMBLY : Removal and Installation".
   CAUTION:
   2 workers are required to support door.
2. Remove door hinge mounting bolts (vehicle body side), and then remove door hinge.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:
- **Before installation, apply anticorrosive agent onto the mounting surface.**
- **After installation, perform the fitting adjustment. Refer to DLK-249, "DOOR ASSEMBLY : Adjustment".**
- **After installation, apply touch-up paint (the body color) onto the head of door hinge mounting bolts and nuts.**
- **After installation, check the open/close operation. Refer to DLK-249, "DOOR ASSEMBLY : Inspection".**

DOOR WEATHER-STRIP

DOOR WEATHER-STRIP : Removal and Installation

INFOID:0000000013563162

CAUTION:
Never reuse rear door weather-strip. Always replace it with a new one when it is removed.

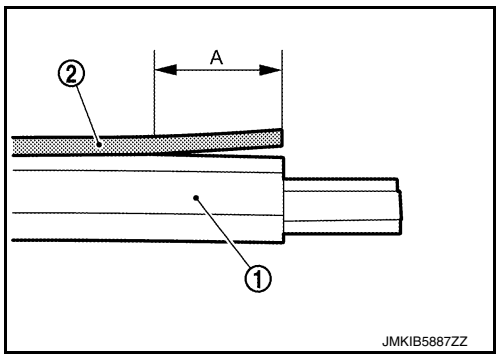
REMOVAL

Pull up and remove rear door weather-strip.

INSTALLATION

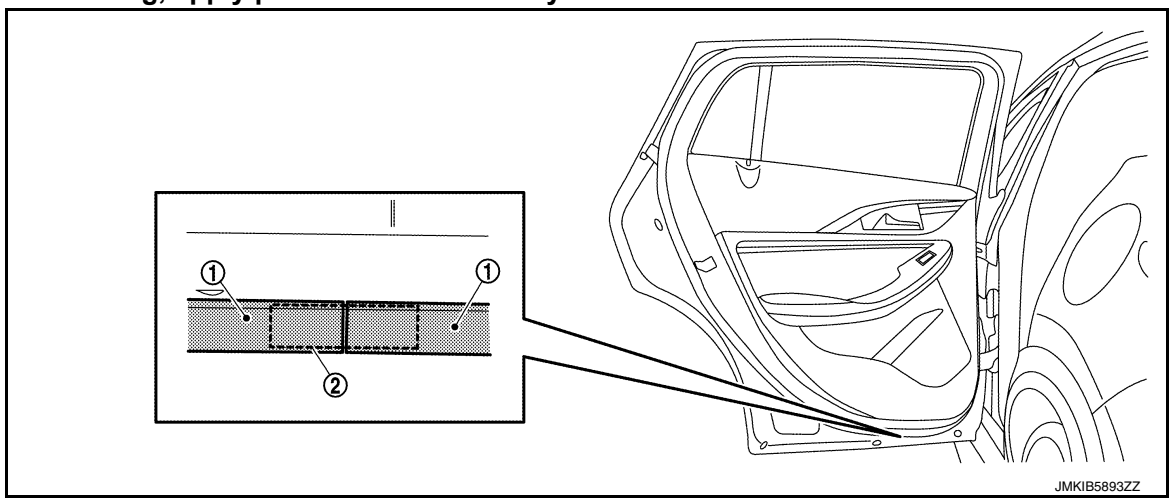
CAUTION:
Remove rear door weather-strip remaining on rear door panel and clean the mating surface of rear door panel with [cleaner (Henkel AG & Co. KGaA) or equivalent], before installing rear door weather-strip.

1. Detach spacer tape ② approx. 20 mm (0.79 in) (A) at one end of new rear door weather-strip ①.

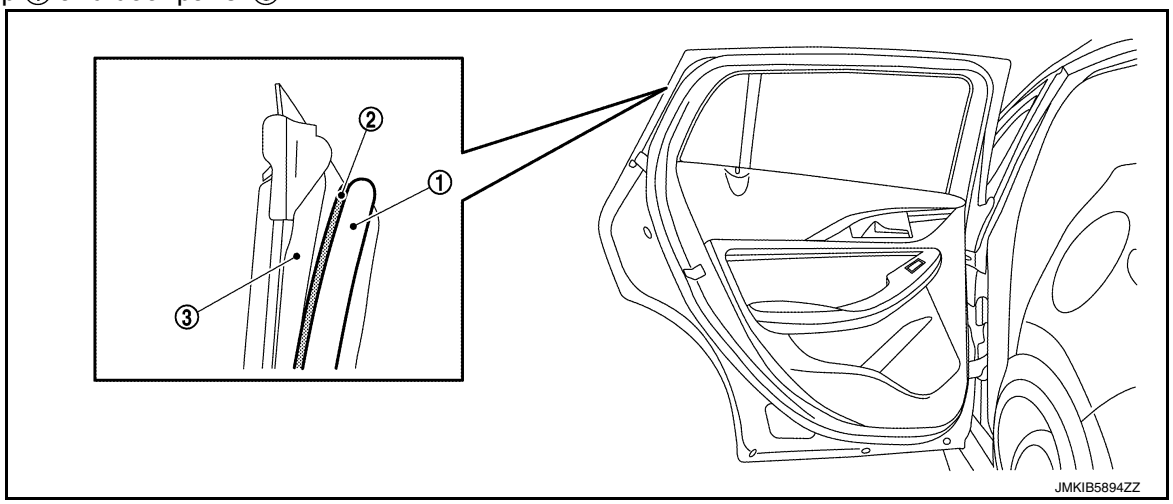


2. Working from the center of door bottom, affix rear door weather-strip to rear door panel.
CAUTION:
Contact spacer tape with door panel over the entire length without gap.

3. Cut off protrusion of rear door weather-strip ① at door bottom, and then connect the two ends of rear door weather-strip by inserting weather-strip insert ② to cut end of rear door weather-strip.
CAUTION:
- **Cut off protrusion so that there is no gap between the two ends of rear door weather-strip as shown in the figure.**
- **After affixing, apply pressure to affix surely.**



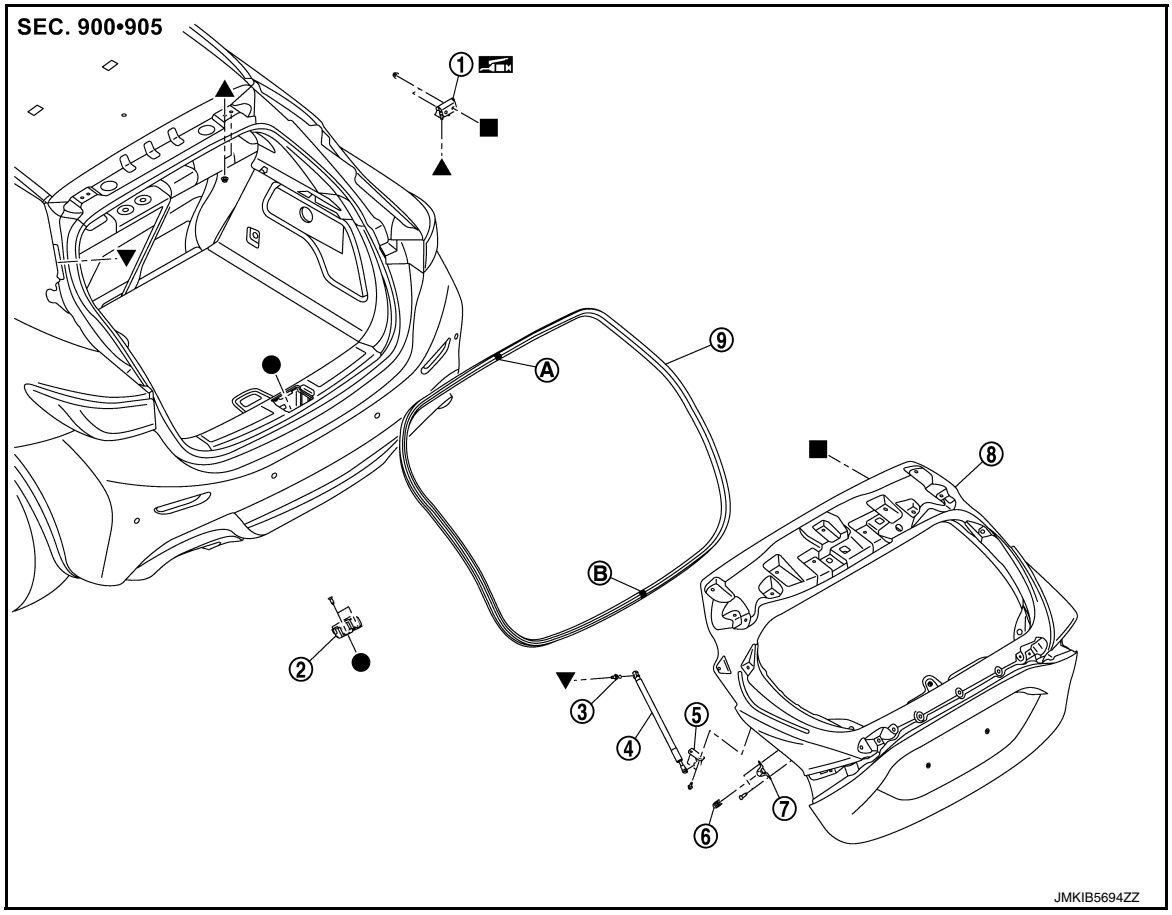
4. Working from detached end of spacer tape ②, remove spacer tape completely form rear door weather-strip ① and door panel ③.



BACK DOOR

Exploded View

INFOID:0000000013563163



① Back door hinge
② Back door striker
③ Stud ball
④ Back door stay
⑤ Back door stay bracket
⑥ Bumper rubber
⑦ Bumper rubber bracket
⑧ Back door panel
⑨ Back door weather-strip
Ⓐ : Center mark
Ⓑ : Seam
: Body grease
●, ▲, ■, ▼: Indicates that the part is connected at points with same symbol in actual vehicle.

BACK DOOR ASSEMBLY

BACK DOOR ASSEMBLY : Removal and Installation

INFOID:0000000013563164

CAUTION:
- **Perform work with 2 workers, because it is heavy weight.**
- **Support back door with a proper material and use protective tape or shop cloth to protect back door and body from falling and damage when removing and installing back door assembly.**

REMOVAL

1. Remove back door inner finisher, back door side garnish (LH and RH) and back door upper garnish. Refer to INT-43, "Removal and Installation".
2. Disconnect back door harness connectors and rear washer tube and remove ground harness fixing bolts, and then disengage harness fixing clips from back door panel.

3. Remove grommet (LH and RH) from back door panel, and then pull out back door harness and rear washer tube from back door panel.
4. Support back door assembly with a proper material to prevent it from falling.

   WARNING:
   Injury may occur if door assembly is not supported with a proper material when removing back door assembly.
5. Remove back door stay bracket mounting bolts.

   CAUTION:
   2 workers are required to support back door.
6. Remove back door hinge mounting nuts (back door side), and then remove back door assembly.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

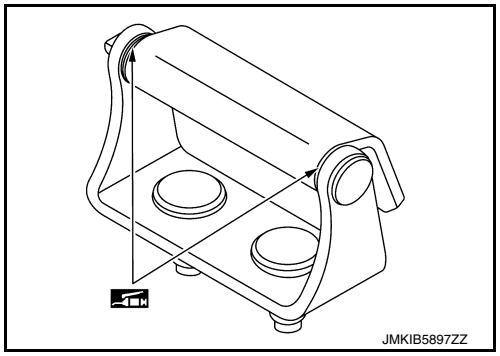
- **Before installation, apply anticorrosive agent onto mounting surface.**
- **After installation, perform the fitting adjustment. Refer to DLK-255, "BACK DOOR ASSEMBLY : Adjustment".**
- **After installation, check whether harness is not pinched. If harness is pinched, pull harness downward lightly.**
- **After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts.**
- **After installation, check the open/close operation.**

BACK DOOR ASSEMBLY : Inspection

INFOID:0000000013563165

1. Open and close back door. Check that door hinge rotation portion moves smoothly.
2. Check back door hinge rotating part for poor lubrication. Apply body grease if necessary.

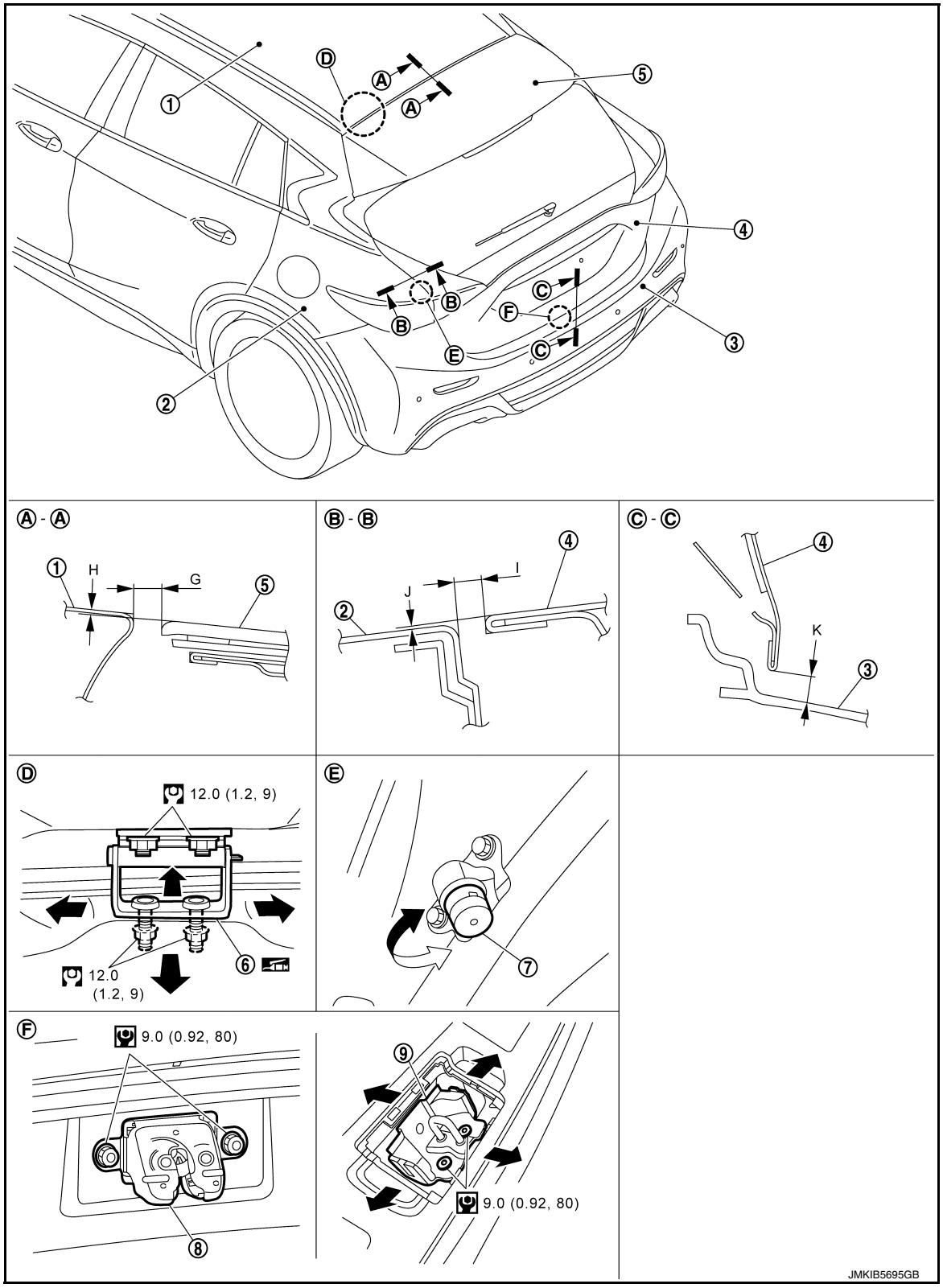
: Body grease



BACK DOOR ASSEMBLY : Adjustment

INFOID:0000000013563166

FITTING ADJUSTMENT



① Roof panel
② Body side outer
③ Rear bumper fascia
④ Back door
⑤ Rear spoiler
⑥ Back door hinge
⑦ Bumper rubber
⑧ Back door lock assembly
⑨ Back door striker

: N·m (kg-m, in-lb)

: N·m (kg-m, ft-lb)

: Body grease

Fitting Adjustment Standard Dimension

Check the clearance and the surface height between back door and each part by seeing and touching.
If the clearance and the surface height are out of specification, adjust them according to the procedures shown below.

Unit: mm [in]

Portion				Standard	Difference (LH/RH, MAX)
Roof panel ① – Rear spoiler ⑤	Ⓐ – Ⓐ	G	Clearance	5.0 – 8.0 [0.197 – 0.315]	—
		H	Surface height	(–2.3) – (+0.7) [(–0.091) – (+0.028)]	—
Body side outer ② – Back door ④	Ⓑ – Ⓑ	I	Clearance	3.0 – 5.0 [0.118 – 0.197]	<3.0 [<0.118]
		J	Surface height	(–1.0) – (+1.0) [(–0.039) – (+0.039)]	—
Back door ④ – Rear bumper fascia ③	Ⓒ – Ⓒ	K	Clearance	5.6 – 9.6 [0.220 – 0.378]	—

Fitting Adjustment Procedure

1. Check that rear spoiler and rear bumper fascia assembly are installed normally.
2. Remove luggage rear plate mask. Refer to INT-37, "LUGGAGE REAR PLATE : Removal and Installation".
3. Remove back door striker mounting bolts, and then remove back door striker.
4. Loosen back door lock assembly mounting bolts.
5. Screw bumper rubbers completely down.
6. Support back door assembly with a proper material to prevent it from falling, and then remove back door stays. Refer to DLK-258, "BACK DOOR STAY : Removal and Installation".
   WARNING:
   Injury may occur if door assembly is not supported with a proper material when removing back door assembly.
7. Loosen back door hinge mounting nuts (back door side).
8. Adjust the surface height of back door (upper side) according to the fitting adjustment standard dimension by moving back door panel.
9. Tighten back door hinge mounting nuts (back door side).
   CAUTION:
   After installation, apply touch-up paint (the body color) if the paint around back door hinge and back door hinge mounting nuts is peeled off.
10. Lower rear end of headlining, and then loosen back door hinge mounting nuts (vehicle body side). Refer to INT-33, "Removal and Installation".
    CAUTION:
    Never bent headlining.
11. Adjust the clearance of back door (upper side) according to the fitting adjustment standard dimension by moving back door panel.
12. Tighten back door hinge mounting nuts (vehicle body side).
13. Temporarily install back door striker.
14. Adjust the clearance and surface height of back door (lower side) according to the fitting adjustment standard dimension by moving back door panel and back door striker.
    CAUTION:
    Adjust back door striker so that it becomes parallel with back door lock insertion direction.
15. Tighten back door striker mounting bolts to the specified torque.

16. Tighten back door lock assembly mounting bolts to the specified torque.
17. Screw bumper rubbers up until vehicle body makes contact with bumper rubbers when back door closed.
18. Install the following part:
    - Back door stay: Refer to DLK-258, "BACK DOOR STAY : Removal and Installation".
    - Luggage rear plate mask: Refer to INT-37, "LUGGAGE REAR PLATE : Removal and Installation".
    - Headlining: Refer to INT-33, "Removal and Installation".
19. After adjusting, perform the following.
    - Check the open/close operation.
    - Perform calibration camera image (with around view monitor system). Refer to AV-302, "Description".
    - Perform rear view camera adjustment (with rear view monitor system). Refer to AV-401, "Adjustment".

BACK DOOR STRIKER

BACK DOOR STRIKER : Removal and Installation

INFOID:0000000013563167

REMOVAL

1. Remove luggage rear plate mask. Refer to INT-37, "LUGGAGE REAR PLATE : Removal and Installation".
2. Remove back door striker mounting bolts, and then remove back door striker.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- **When installation, perform the fitting adjustment. Refer to DLK-255, "BACK DOOR ASSEMBLY : Adjustment".**
- **After installation, check the open/close operation.**

BACK DOOR HINGE

BACK DOOR HINGE : Removal and Installation

INFOID:0000000013563168

CAUTION:

- **Perform work with 2 workers, because it is heavy weight.**
- **Support back door with a proper material and use protective tape or shop cloth to protect back door and body from falling and damage when removing and installing back door assembly.**

REMOVAL

1. Remove back door assembly. Refer to DLK-254, "BACK DOOR ASSEMBLY : Removal and Installation".
   CAUTION:
   2 workers are required to support back door.
2. Lower rear end of headlining, and then remove back door hinge mounting nuts (vehicle body side) and back door hinge. Refer to INT-33, "Removal and Installation".
   CAUTION:
   Never bent headlining.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- **Before installation, apply anticorrosive agent onto mounting surface.**
- **After installation, perform the fitting adjustment. Refer to DLK-255, "BACK DOOR ASSEMBLY : Adjustment".**
- **After installation, apply touch-up paint (the body color) onto the head of door hinge mounting nuts.**
- **After installation, check the open/close operation.**

BACK DOOR STAY

BACK DOOR STAY : Removal and Installation

INFOID:0000000013563169

CAUTION:

- **Perform work with 2 workers, because it is heavy weight.**
- **Support back door with a proper material and use protective tape or shop cloth to protect back door and body from falling and damage when removing and installing back door stay.**

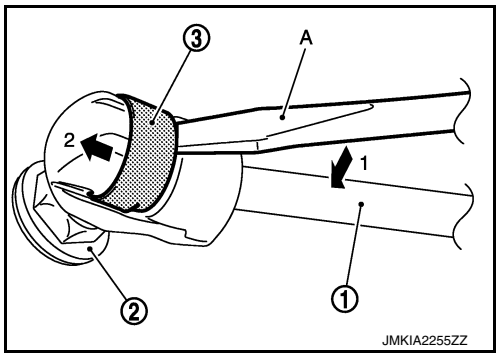
REMOVAL

1. Support back door assembly with a proper material to prevent it from falling.

WARNING:
Injury may occur if door assembly is not supported with a proper material when removing back door assembly.

2. Remove metal clip ③ located on connection between back door stay ① and stud ball ② of back door stay bracket using a remover tool (A) according to the numerical order 1→2 indicated by arrows as shown in the figure.

CAUTION:
2 workers are required to support back door.



3. Disengage back door stay from stud ball of back door stay bracket.
4. Repeat the same operation to disengage back door stay from stud ball, and then remove back door stay.

INSTALLATION

Note the following item, and then install in the reverse order of removal.

CAUTION:
After installation, check the open/close operation.

BACK DOOR WEATHER-STRIP

BACK DOOR WEATHER-STRIP : Removal and Installation

INFOID:0000000013563170

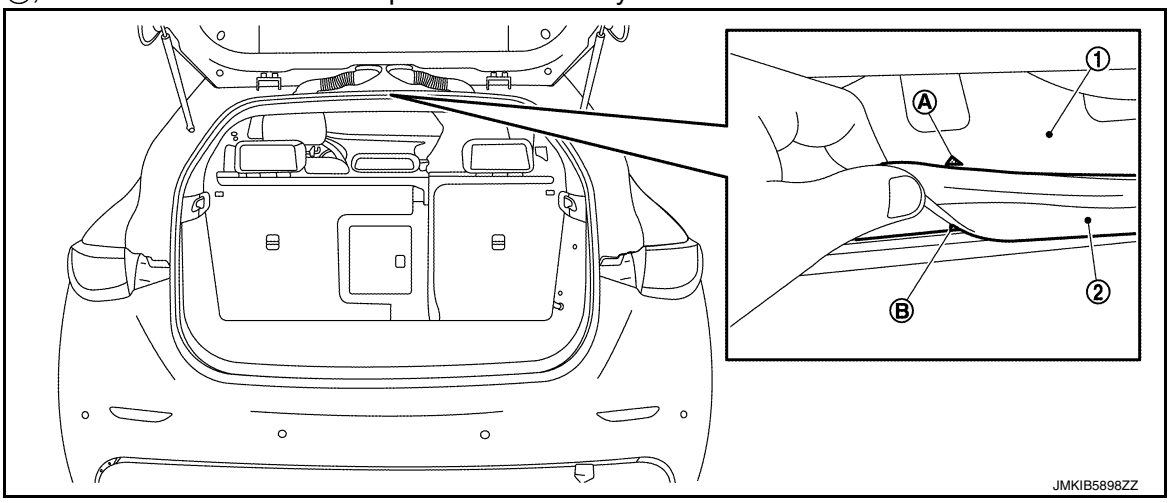
REMOVAL

Pull up and remove engagement with body from weather-strip joint.

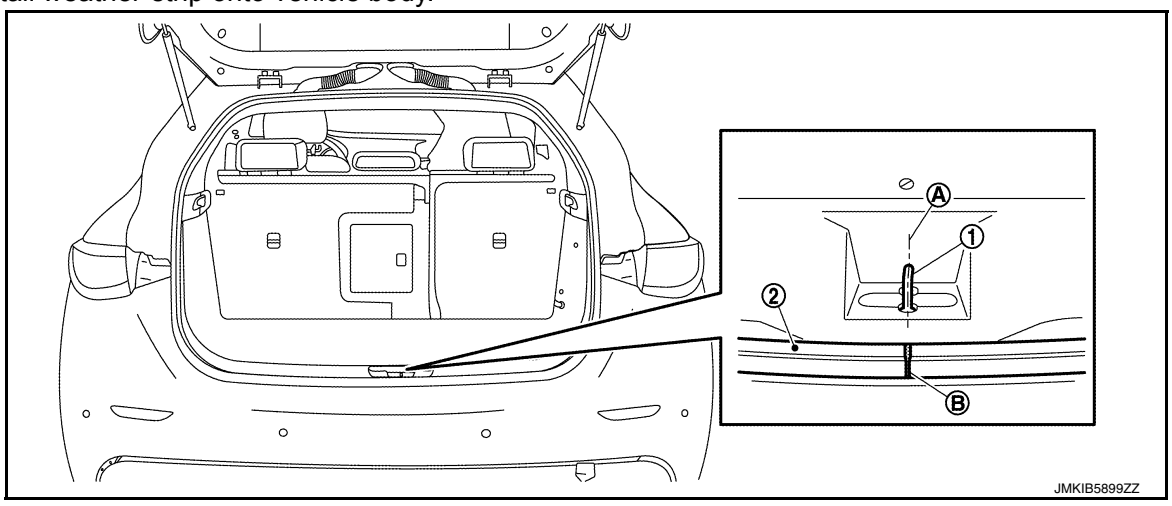
CAUTION:
Never pull strongly on back door weather-strip.

INSTALLATION

1. Working from the upper section, align back door weather-strip ② center mark Ⓑ with "△" mark Ⓐ of vehicle ①, and then install weather-strip onto vehicle body.



2. Align connecting point Ⓑ of back door weather-strip ② with center Ⓐ of back door striker ①, and then install weather-strip onto vehicle body.

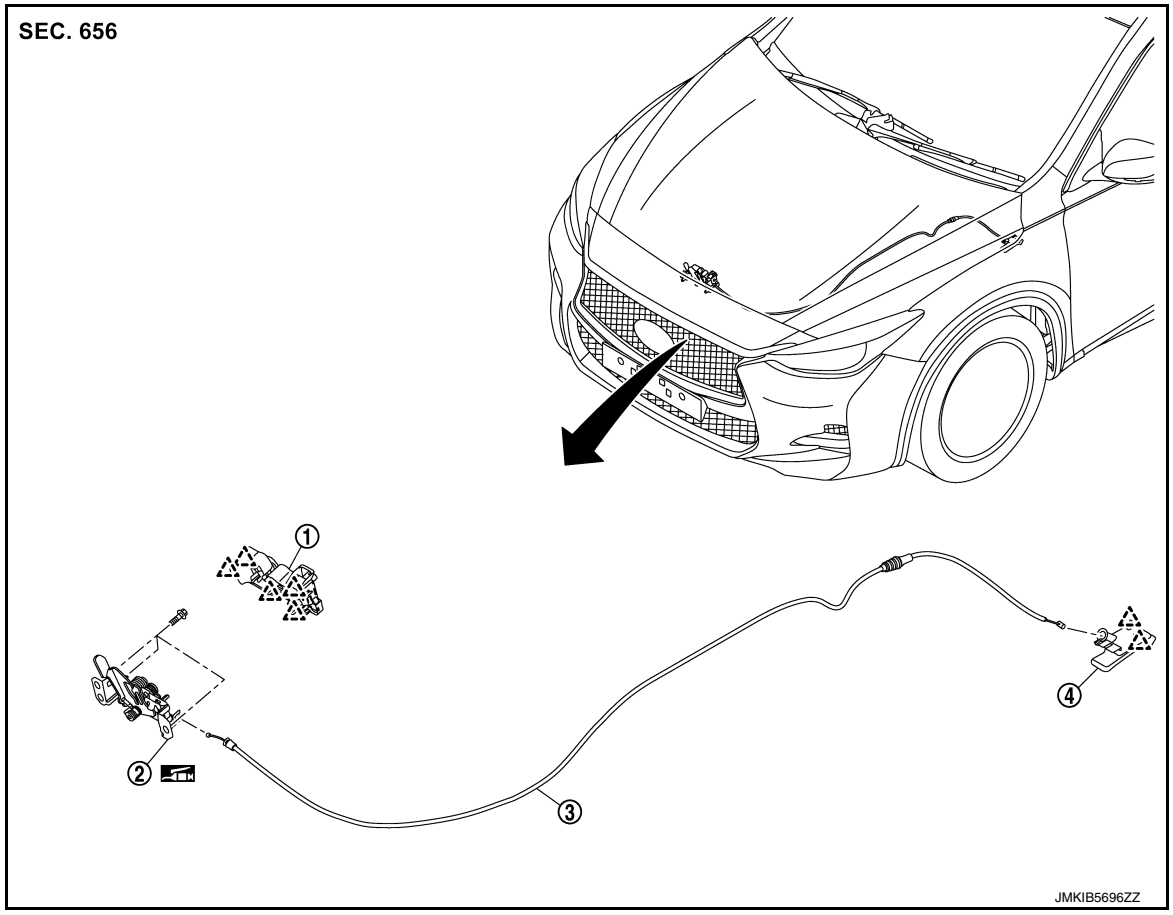


3. Pull back door weather-strip gently to ensure that there is no loose section.
CAUTION:
Check that weather-strip fits tightly in each corner.

HOOD LOCK

Exploded View

INFOID:0000000013563171



① Hood switch assembly ② Hood lock assembly ③ Hood lock control cable assembly

④ Hood lock control handle assembly

: Pawl

: Body grease

HOOD LOCK

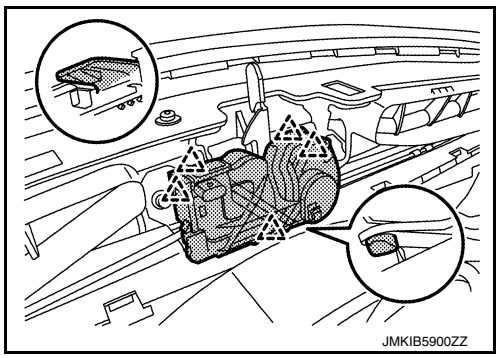
HOOD LOCK : Removal and Installation

INFOID:0000000013563172

REMOVAL

1. Remove air duct (inlet). Refer to EM-23, "Removal and Installation".
2. Disconnect hood switch harness connector.
3. Disengage hood switch assembly fixing pawls, and then remove hood switch assembly.

: Pawl



4. Remove hood lock assembly mounting bolts.
5. Disconnect hood lock control cable from hood lock assembly, and then remove hood lock assembly.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- **Never bend cable too much, keeping the radius 100 mm (3.937 in) or more.**
- **Check that hood lock control cable is properly engaged with hood lock.**
- **After installation, perform the fitting adjustment. Refer to DLK-232, "HOOD ASSEMBLY : Adjustment".**
- **After installation, perform hood lock control inspection. Refer to DLK-262, "HOOD LOCK : Inspection".**

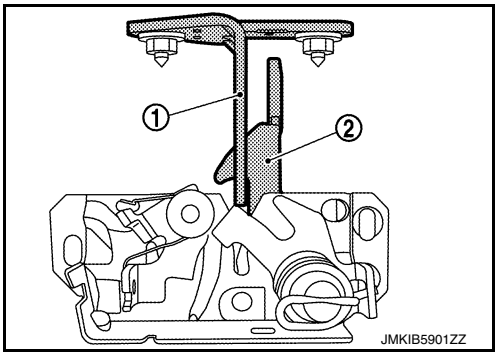
HOOD LOCK : Inspection

INFOID:0000000013563173

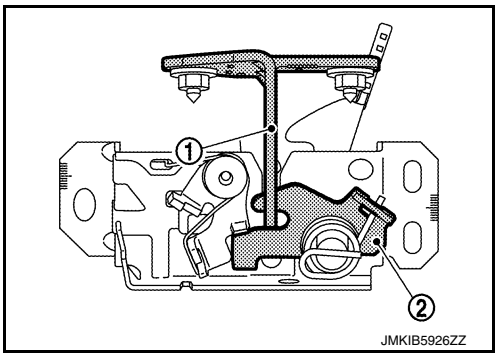
NOTE:

If the hood lock cable is bent or deformed, replace it.

1. Check that hood lock control handle operating force is 49 N (5.0 kg, 11.0 lb) or below.
2. When operating hood lock control handle carefully, check that the front end of the hood is lifted by approximately 17.5 mm (0.689 in). Also, check that hood lock control handle returns to the original position.
3. Check that secondary latch ② is securely engaged with hood striker ① from the dead load of hood assembly.

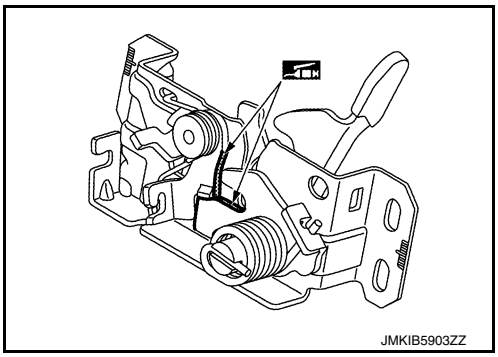


4. Check that primary latch ② is securely engaged with hood striker ① when hood assembly is closed [free-fall from approximately 200 mm (7.874 in) height].



5. Check hood lock assembly contacting part for poor lubrication. Apply body grease if necessary.

: Body grease



HOOD LOCK CONTROL HANDLE

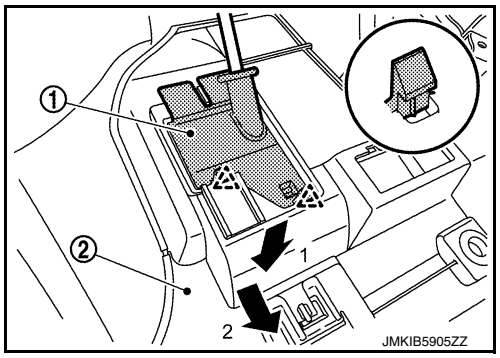
HOOD LOCK CONTROL HANDLE : Removal and Installation

INFOID:0000000013563174

REMOVAL

1. Remove instrument lower cover LH. Refer to IP-13, "Removal and Installation"
2. Disengage hood lock control handle assembly ① fixing pawls, and then remove hood lock control handle assembly from instrument panel under cover ② according to the numerical order 1→2 indicated by arrows as shown in the figure.

   : Pawl



3. Disconnect hood lock control cable from hood lock control handle assembly.

INSTALLATION

Note the following item, and then install in the reverse order of removal.

CAUTION:

After installation, perform hood lock control inspection. Refer to DLK-262, "HOOD LOCK : Inspection".

HOOD LOCK CONTROL CABLE

HOOD LOCK CONTROL CABLE : Removal and Installation

INFOID:0000000013563175

REMOVAL

1. Remove main battery. Refer to PG-109, "MAIN BATTERY : Removal and Installation".
2. Remove main battery tray. Refer to PG-117, "MAIN BATTERY : Removal and Installation".
3. Remove air duct (inlet). Refer to EM-23, "Removal and Installation".
4. Disconnect hood lock control cable assembly from hood lock assembly. Refer to DLK-261, "HOOD LOCK : Removal and Installation".
5. Remove front fender protector LH. Refer to EXT-41, "FENDER PROTECTOR : Removal and Installation".
6. Remove hood lock control cable fixing clips.
7. Disconnect hood lock control cable assembly from hood lock control handle. Refer to DLK-263, "HOOD LOCK CONTROL HANDLE : Removal and Installation".
8. Remove grommet of lower dash, and pull hood lock control cable assembly toward inside vehicle.
   CAUTION:
   While pulling, never damage (peeling) the outside of hood lock control cable.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

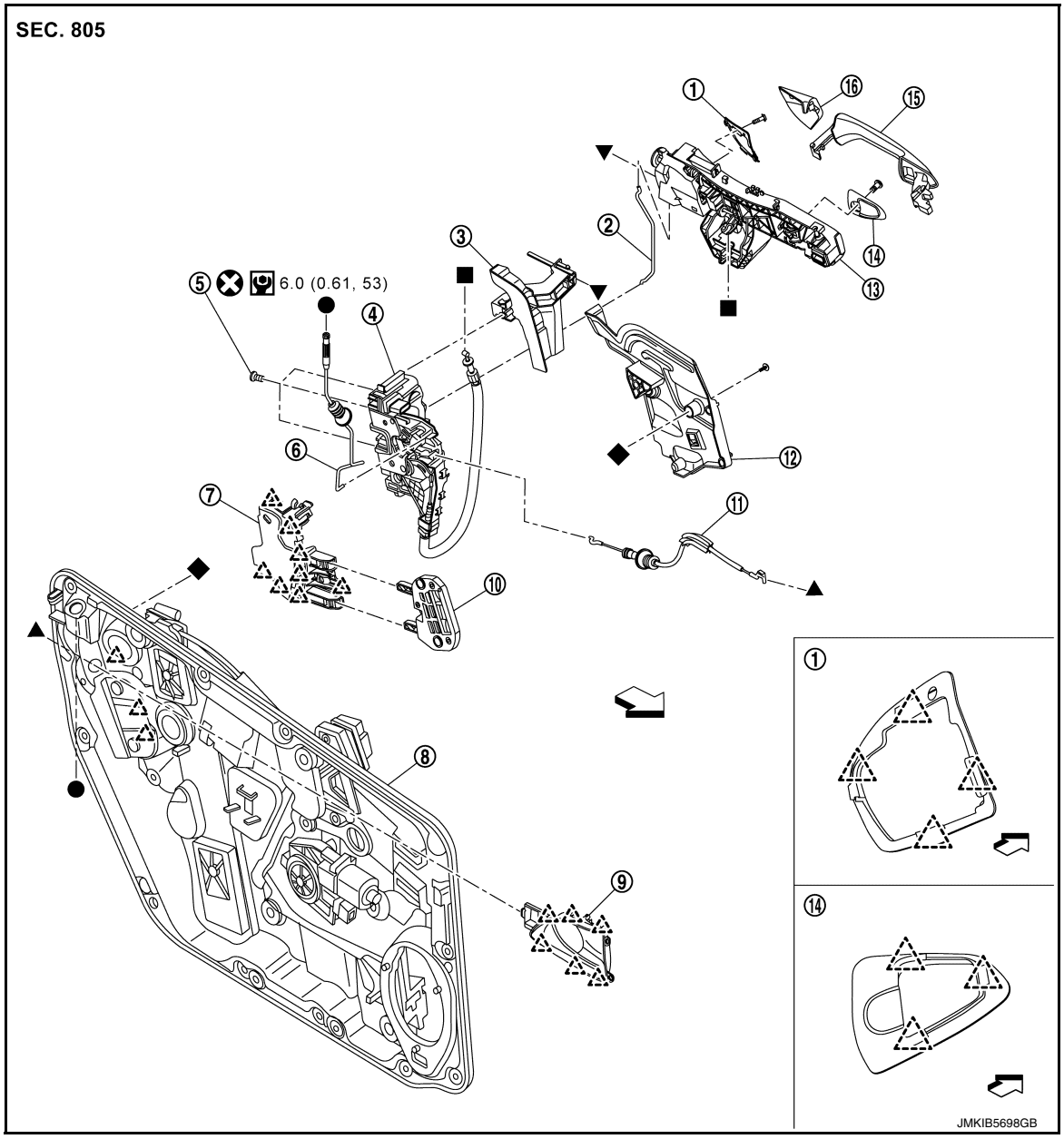
CAUTION:

- **Never bend cable too much, keeping the radius 100 mm (3.937 in) or more.**
- **Install grommet in the panel hole surely.**
- **After installation, perform hood lock control inspection. Refer to DLK-262, "HOOD LOCK : Inspection".**

FRONT DOOR LOCK

Exploded View

INFOID:0000000013563176



① Rear gasket
② Key rod (driver side)
③ Front door rear sash
④ Door lock assembly
⑤ TORX bolt
⑥ Lock knob rod
⑦ Door lock cover (rear)
⑧ Front door module
⑨ Inside handle
⑩ Door lock cover (front)
⑪ Inside handle cable
⑫ Lock knob rod protector
⑬ Outside handle bracket
⑭ Front gasket
⑮ Outside handle grip
⑯ Outside handle escutcheon

△ : Pawl
⇦ : Vehicle front
⊗ : Always replace after every disassembly.

: N·m (kg-m, in-lb)

●, ▲, ■, ▼, ◆: Indicates that the part is connected at points with same symbol in actual vehicle.

DOOR LOCK

DOOR LOCK : Removal and Installation

INFOID:0000000013563177

REMOVAL

1. Remove outside handle bracket from door lock assembly. Refer to DLK-266, "OUTSIDE HANDLE : Removal and Installation".
2. Disconnect door lock harness connector from door lock assembly, and then disengage and remove door lock harness form door lock assembly.
3. Disengage door lock cover (front) fixing pawls, and then remove door lock cover (front) from door lock cover (rear).
4. Disengage door lock cover (rear) fixing pawls, and then remove door lock cover (rear) from door lock assembly.
5. Disengage and remove lock knob rod from door lock assembly.
6. Disconnect and remove inside handle cable from door lock assembly.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- **Never reuse door lock assembly mounting TORX bolt. Always replace it with a new one when it is removed.**
- **When connecting cables to door lock assembly, inside handle and outside handle bracket, check that cables are properly engaged with door lock assembly, inside handle and outside handle bracket.**
- **After installation, check door lock. Refer to DLK-265, "DOOR LOCK : Inspection".**

DOOR LOCK : Inspection

INFOID:0000000013563178

1. After opening and closing door, check that door is fixed to the vehicle body normally.
2. Check the lock/unlock operation of door lock.

INSIDE HANDLE

INSIDE HANDLE : Removal and Installation

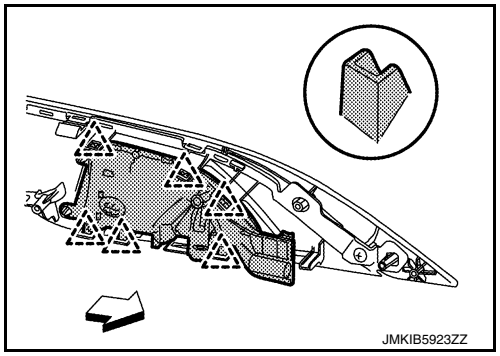
INFOID:0000000013563179

REMOVAL

1. Remove inside handle escutcheon. Refer to INT-14, "Removal and Installation".
2. Disengage inside handle fixing pawls, and then remove inside handle from inside handle escutcheon.

: Pawl

: Vehicle front



INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- **When connecting inside handle cable to inside handle, check that inside handle cable is properly engaged with inside handle.**
- **After installation, check door lock. Refer to DLK-265, "DOOR LOCK : Inspection".**

OUTSIDE HANDLE

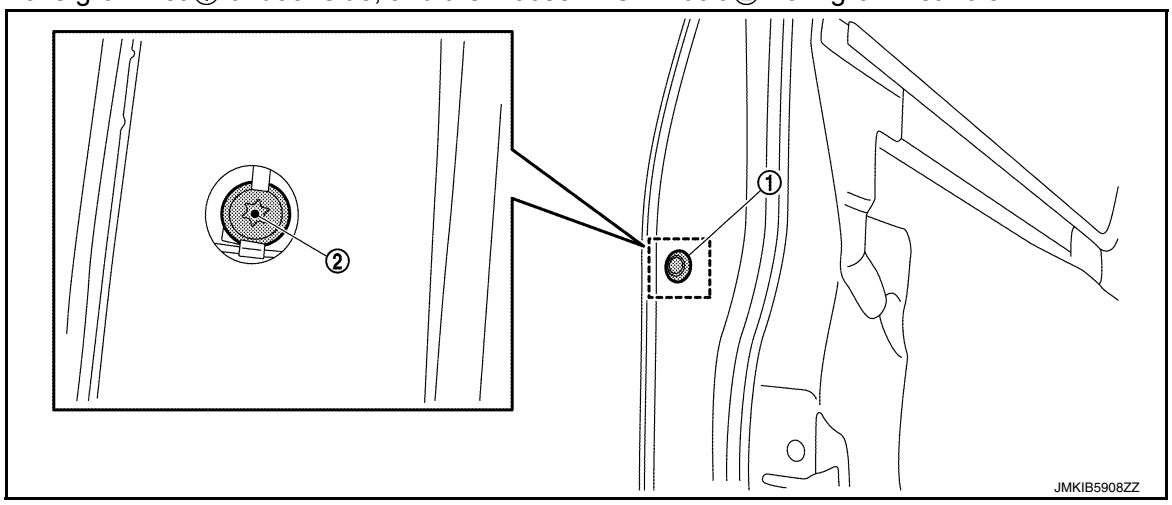
OUTSIDE HANDLE : Removal and Installation

INFOID:0000000013563180

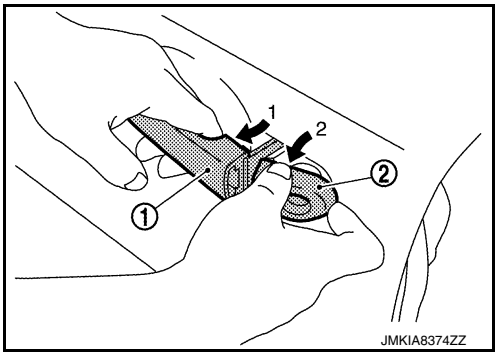
OUTSIDE HANDLE GRIP

Removal

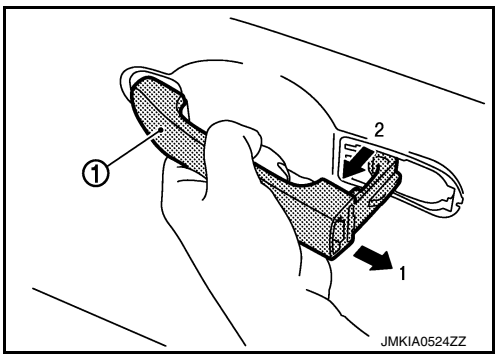
1. Remove grommet ① of door side, and then loosen TORX bolt ② from grommet hole.



2. Remove outside handle escutcheon ② while pulling outside handle grip ① according to the numerical order 1→2 indicated by arrows as shown in the figure.

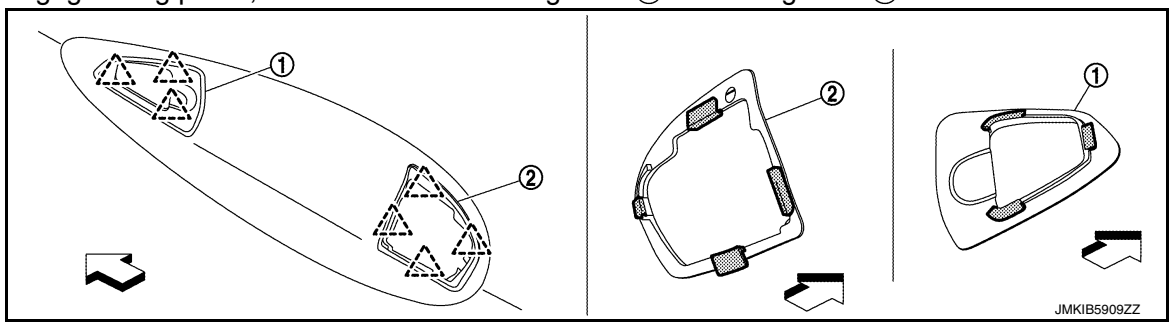


3. Slide outside handle grip ① toward rear of vehicle and remove it according to the numerical order 1→2 indicated by arrows as shown in the figure.



4. Disconnect outside handle harness connector.

5. Disengage fixing pawls, and then remove front gasket ① and rear gasket ②.



: Pawl

: Vehicle front

Installation

Note the following item, and then install in the reverse order of removal.

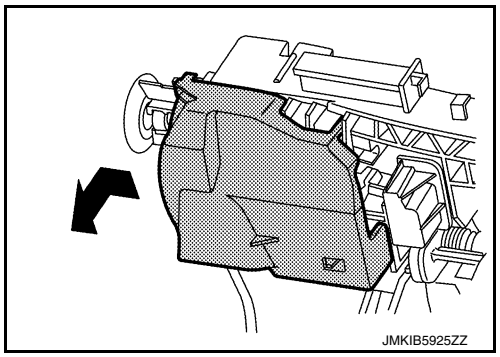
CAUTION:

After installation, check door lock. Refer to DLK-265, "DOOR LOCK : Inspection".

OUTSIDE HANDLE BRACKET

Removal

1. Remove front door module assembly. Refer to GW-46, "FRONT DOOR MODULE ASSEMBLY : Removal and Installation".
2. Remove and disengage lock knob rod protector fixing screw and pawls, and then remove lock knob rod protector.
3. Disengage door lock cover (front) fixing pawls, and then remove door lock cover (front) with door lock assembly and outside handle bracket from front door module.
   CAUTION:
   Never pull on front door harness strongly.
4. Remove front door rear sash with outside handle bracket from door lock assembly.
5. Disengage key rod from door lock assembly (driver side).
6. Remove outside handle harness connector from outside handle bracket, and then disengage and remove outside handle harness form outside handle bracket and front door rear sash.
   CAUTION:
   Confirm and note the installation condition of outside handle harness before removal.
7. Remove front door rear sash form outside handle bracket.
8. Slide and remove bracket cover from outside handle bracket as shown in the figure (driver side).



9. Disengage and remove key rod from outside handle bracket (driver side).
10. Disconnect and remove outside handle cable from outside handle bracket.

Installation

Note the following items, and then install in the reverse order of removal.

CAUTION:

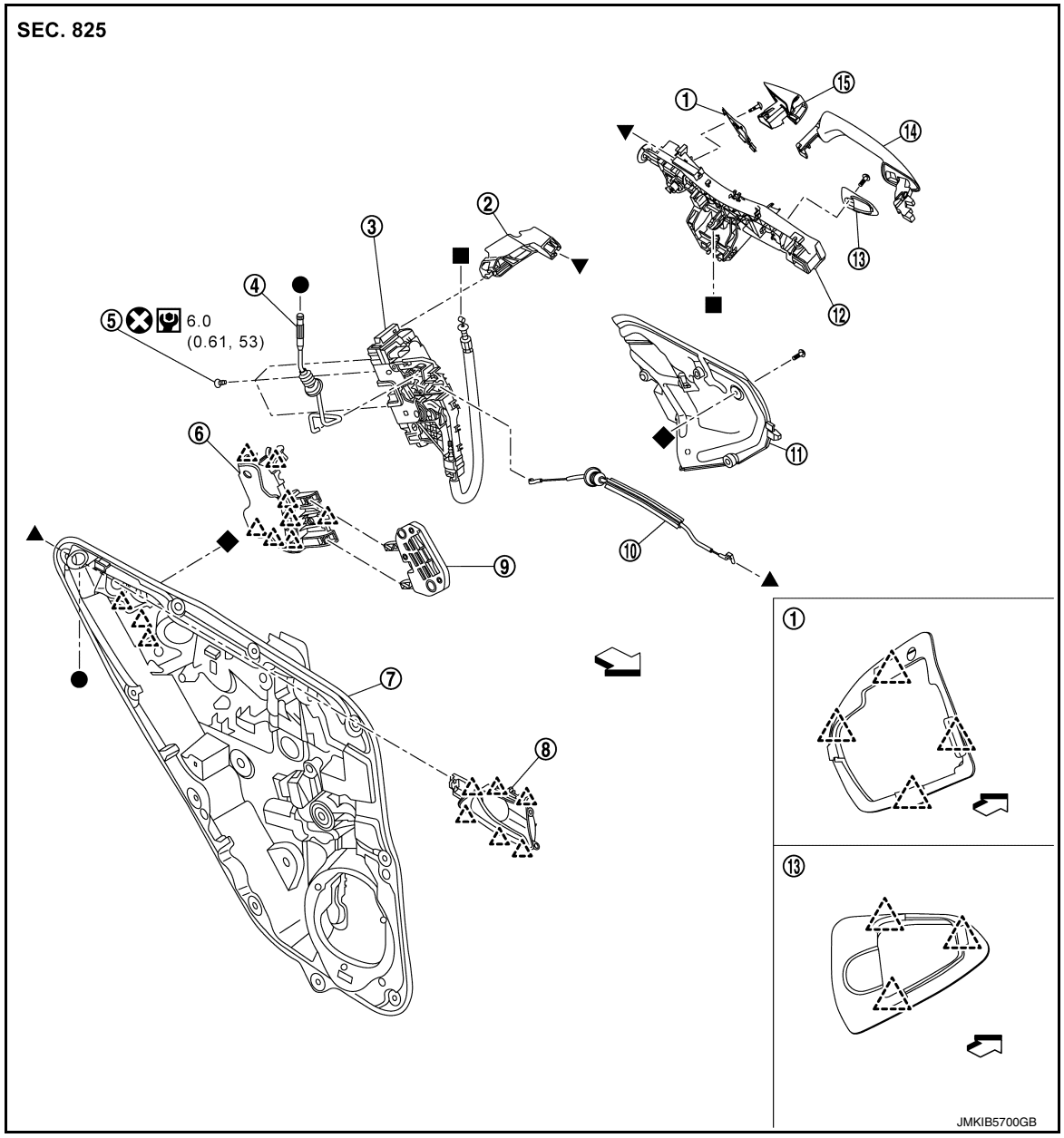
- **Never reuse door lock assembly mounting TORX bolt. Always replace it with a new one when it is removed.**

- **When connecting cables to door lock assembly, inside handle and outside handle bracket, check that cables are properly engaged with door lock assembly, inside handle and outside handle bracket.**
- **After installation, check door lock. Refer to DLK-265, "DOOR LOCK : Inspection".**

REAR DOOR LOCK

Exploded View

INFOID:0000000013563181



① Rear gasket	② Rear door rear sash	③ Door lock assembly
④ Lock knob rod	⑤ TORX bolt	⑥ Door lock cover (rear)
⑦ Rear door module	⑧ Inside handle	⑨ Door lock cover (front)
⑩ Inside handle cable	⑪ Lock knob rod protector	⑫ Outside handle bracket
⑬ Front gasket	⑭ Outside handle grip	⑮ Outside handle escutcheon

△ : Pawl

⇦ : Vehicle front

⊗ : Always replace after every disassembly.

: N·m (kg-m, in-lb)

●, ▲, ■, ▼, ◆: Indicates that the part is connected at points with same symbol in actual vehicle.

DOOR LOCK

DOOR LOCK : Removal and Installation

INFOID:0000000013563182

REMOVAL

1. Remove outside handle bracket from door lock assembly. Refer to DLK-271, "OUTSIDE HANDLE : Removal and Installation".
2. Disconnect door lock harness connector from door lock assembly, and then disengage and remove door lock harness form door lock assembly.
3. Disengage door lock cover (front) fixing pawls, and then remove door lock cover (front) from door lock cover (rear).
4. Disengage door lock cover (rear) fixing pawls, and then remove door lock cover (rear) from door lock assembly.
5. Disengage and remove lock knob rod from door lock assembly.
6. Disconnect and remove inside handle cable from door lock assembly.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- **Never reuse door lock assembly mounting TORX bolt. Always replace it with a new one when it is removed.**
- **When connecting cables to door lock assembly, inside handle and outside handle bracket, check that cables are properly engaged with door lock assembly, inside handle and outside handle bracket.**
- **After installation, check door lock. Refer to DLK-270, "DOOR LOCK : Inspection".**

DOOR LOCK : Inspection

INFOID:0000000013563183

1. After opening and closing door, check that door is fixed to the vehicle body normally.
2. Check the lock/unlock operation of door lock.

INSIDE HANDLE

INSIDE HANDLE : Removal and Installation

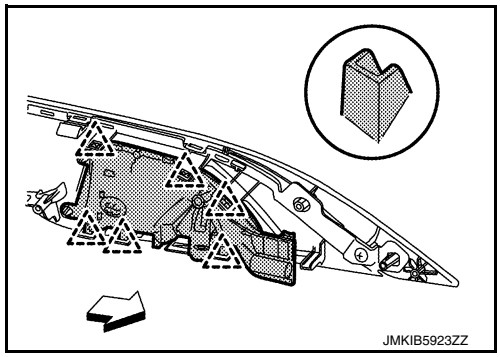
INFOID:0000000013563184

REMOVAL

1. Remove inside handle escutcheon. Refer to INT-19, "Removal and Installation".
2. Disengage inside handle fixing pawls, and then remove inside handle from inside handle escutcheon.

: Pawl

: Vehicle front



INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- **When connecting inside handle cable and lock knob cable to inside handle, check that inside handle cable and lock knob cable are properly engaged with inside handle.**
- **After installation, check door lock. Refer to DLK-270, "DOOR LOCK : Inspection".**

OUTSIDE HANDLE

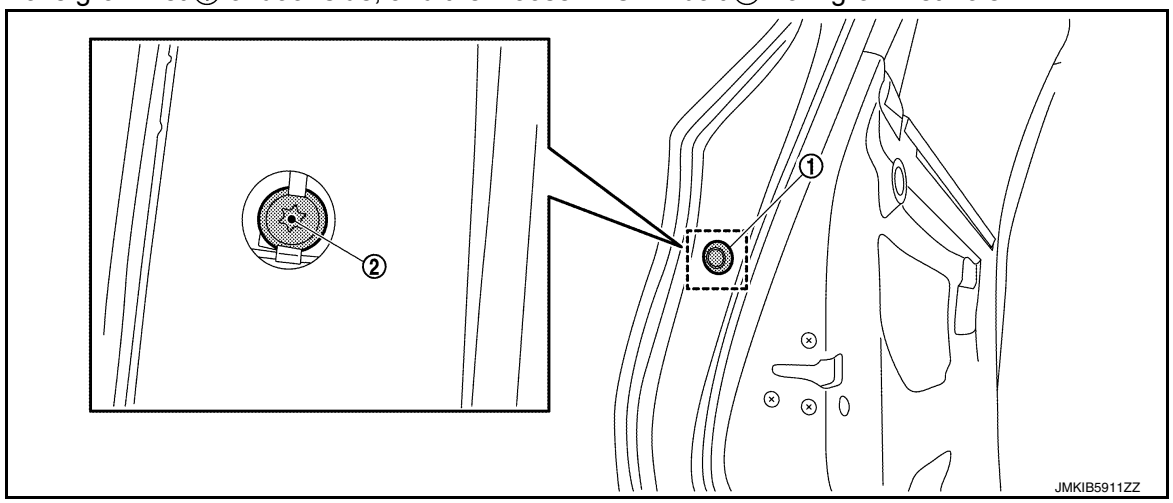
OUTSIDE HANDLE : Removal and Installation

INFOID:0000000013563185

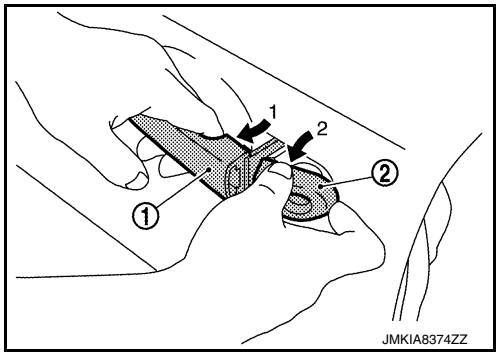
OUTSIDE HANDLE GRIP

Removal

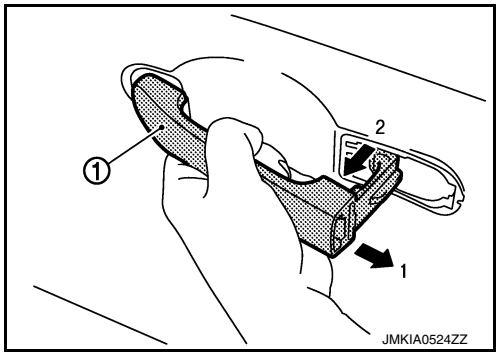
1. Remove grommet ① of door side, and then loosen TORX bolt ② from grommet hole.



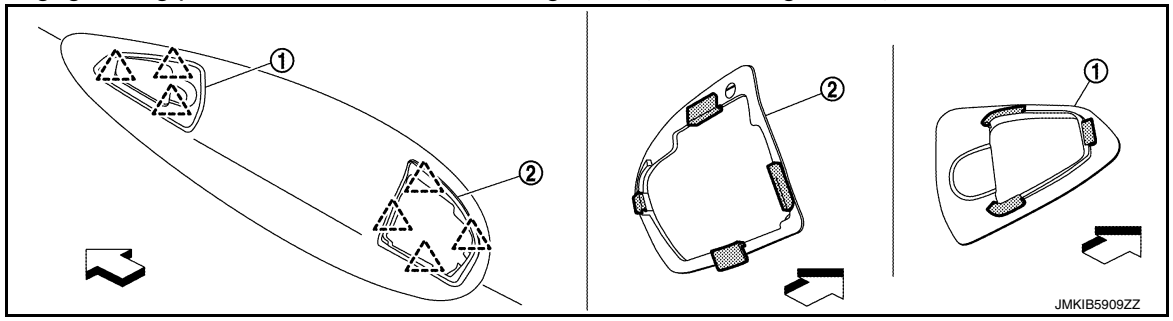
2. Remove outside handle escutcheon ② while pulling outside handle grip ① according to the numerical order 1→2 indicated by arrows as shown in the figure.



3. Slide outside handle grip ① toward rear of vehicle and remove it according to the numerical order 1→2 indicated by arrows as shown in the figure.



4. Disengage fixing pawls, and then remove front gasket ① and rear gasket ②.



: Pawl

: Vehicle front

INSTALLATION

Note the following item, and then install in the reverse order of removal.

CAUTION:

After installation, check door lock. Refer to DLK-270, "DOOR LOCK : Inspection".

OUTSIDE HANDLE BRACKET

Removal

1. Remove rear door module assembly. Refer to GW-55, "REAR DOOR MODULE ASSEMBLY : Removal and Installation".
2. Remove and disengage lock knob rod protector fixing screw and pawls, and then remove lock knob rod protector.
3. Disengage door lock cover (front) fixing pawls, and then remove door lock cover (front) with door lock assembly and outside handle bracket from front door module.
   CAUTION:
   Never pull on rear door harness strongly.
4. Remove rear door rear sash with outside handle bracket from door lock assembly.
5. Remove rear door rear sash form outside handle bracket.
6. Disconnect and remove outside handle cable from outside handle bracket.

Installation

Note the following items, and then install in the reverse order of removal.

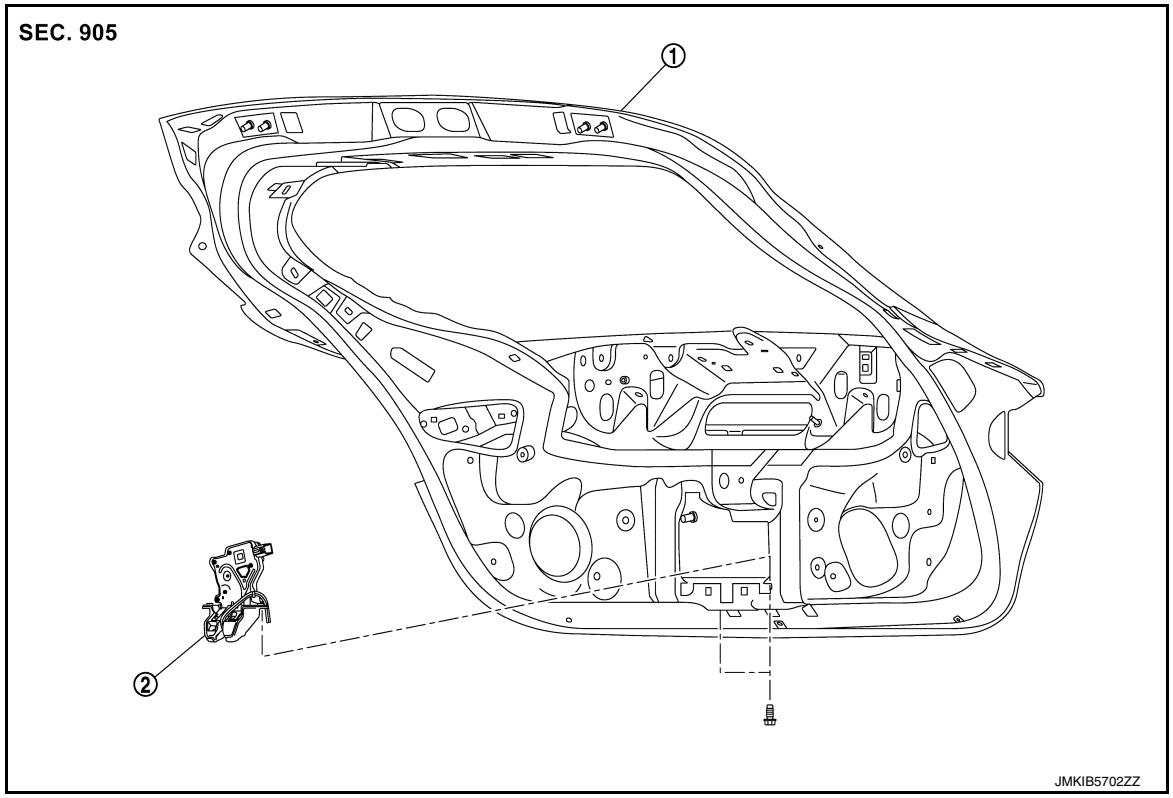
CAUTION:

- **Never reuse door lock assembly mounting TORX bolt. Always replace it with a new one when it is removed.**
- **When connecting cables to door lock assembly, inside handle and outside handle bracket, check that cables are properly engaged with door lock assembly, inside handle and outside handle bracket.**
- **After installation, check door lock. Refer to DLK-265, "DOOR LOCK : Inspection".**

BACK DOOR LOCK

Exploded View

INFOID:0000000013563186



① Back door panel ② Back door lock assembly

DOOR LOCK

DOOR LOCK : Removal and Installation

INFOID:0000000013563187

REMOVAL

1. Remove back door inner finisher. Refer to INT-43, "Removal and Installation".
2. Disconnect back door lock harness connector.
3. Remove back door lock assembly mounting bolts, and then remove back door lock assembly from back door panel.

INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- **When installation, check back door fitting adjustment and tighten back door lock assembly mounting bolts to the specified torque. Refer to DLK-255, "BACK DOOR ASSEMBLY : Adjustment".**
- **After installation, check back door lock. Refer to DLK-273, "DOOR LOCK : Inspection".**

DOOR LOCK : Inspection

INFOID:0000000013563188

1. After opening and closing the back door, check that door is fixed to the vehicle body normally.
2. Check the lock/unlock operation of door lock.

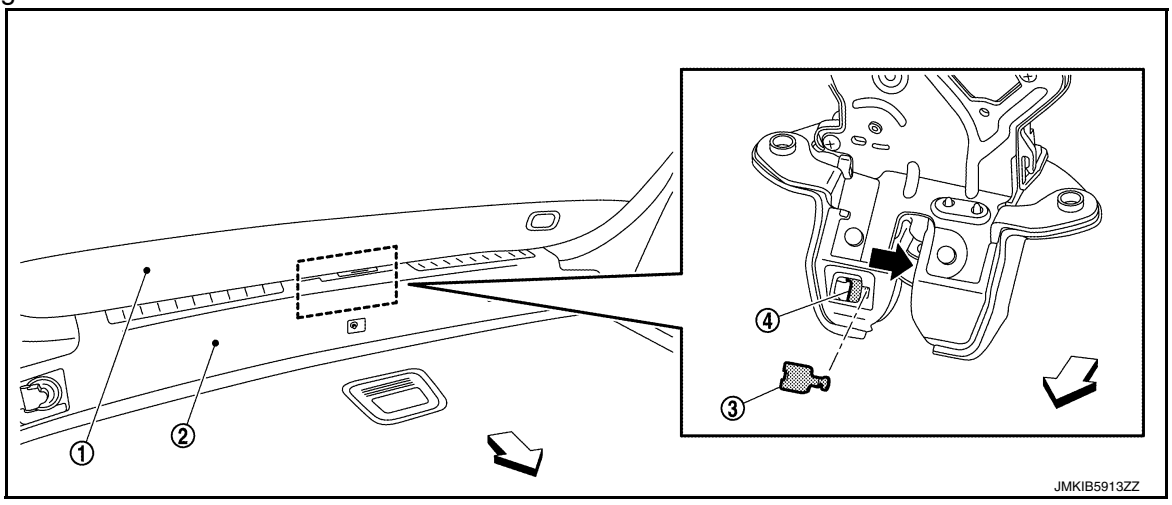
DOOR LOCK : Unlock procedures

INFOID:0000000013563189

NOTE:

Release lock according to the following procedures when lock cannot be unlocked due to a malfunction of door lock assembly or battery discharge.

Insert a remover tool, etc. in the gap of back door inner finisher ① and luggage rear plate ② and remove emergency cap ③ from back door lock assembly, and then Insert a remover tool, etc. in the gap of back door inner finisher ① and luggage rear plate ②, and then operate opener lever ④ in the direction of arrow as shown in the figure to unlock back door lock.

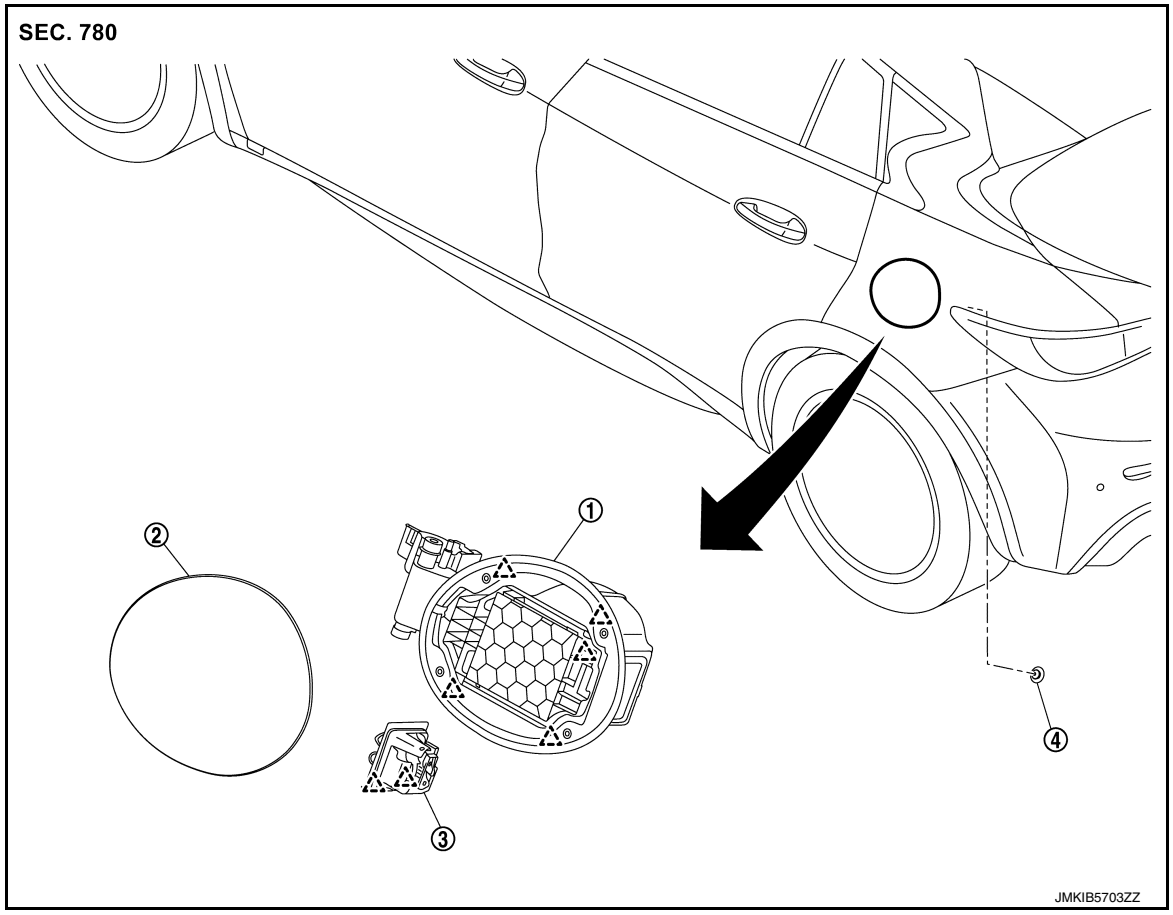


⇦ : Vehicle front

FUEL FILLER LID OPENER

Exploded View

INFOID:0000000013563190



① Fuel filler lid base assembly ② Fuel filler lid assembly ③ Fuel filler lid opener actuator

④ Grommet

△ : Pawl

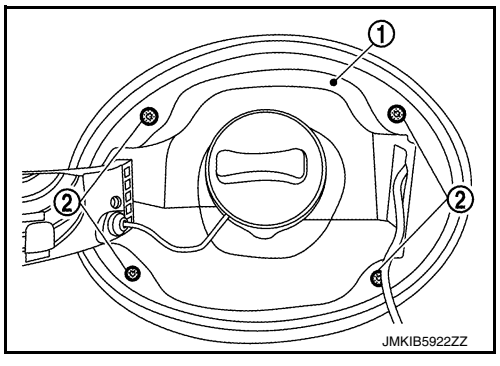
FUEL FILLER LID

FUEL FILLER LID : Removal and Installation

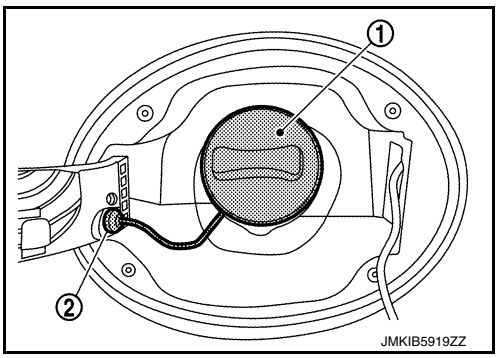
INFOID:0000000013563191

REMOVAL

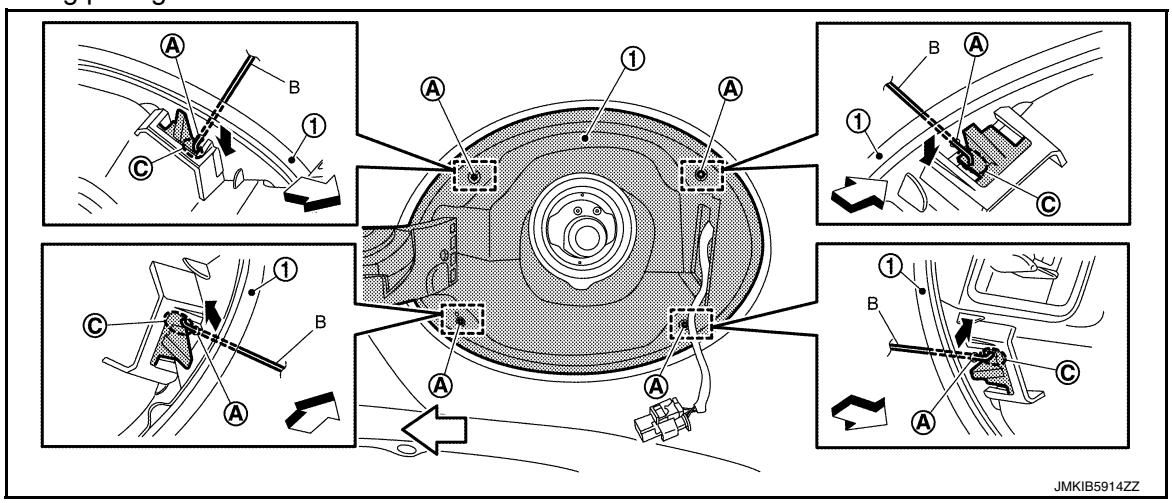
1. Remove fuel filler lid opener actuator. Refer to DLK-277, "FUEL FILLER LID OPENER : Removal and Installation".
2. Remove plugs ② from fuel filler lid base assembly ①.



3. Disengage fuel cap check strap ② from fuel filler lid base assembly, and then remove fuel cap ①.
CAUTION:
To protect fuel filler from the entry of foreign matter, cap or wrap the fuel filler with a suitable material.

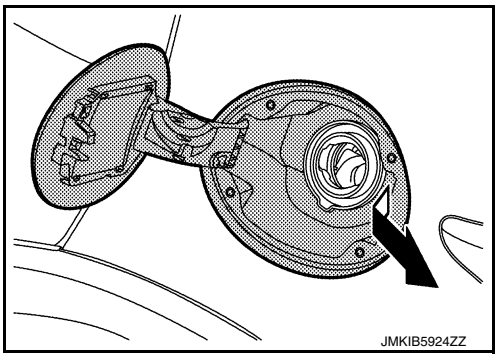


4. Insert pulling hook [SST: KV485H0010 (DAIMLER tool No. W140589023300)] (B) into plug installation hole Ⓐ of fuel filler lid base assembly ①, and then disengage pawl while pushing dotted area Ⓒ in the figure using pulling hook.



⇦ : Vehicle front

5. Apply lubricant to seal of fuel filler lid base assembly contacting with filler neck for removing smoothly.
6. Remove fuel filler lid base assembly from vehicle body.
CAUTION:
Never damage or break seal of fuel filler lid base assembly.



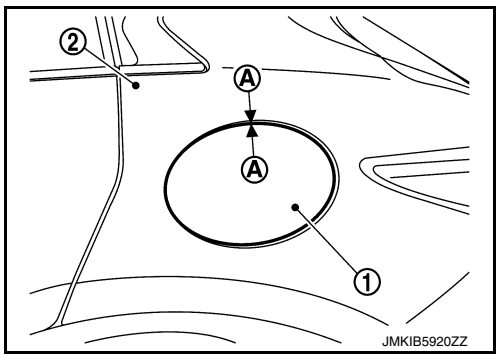
7. Remove fuel filler lid assembly from fuel filler base assembly.

INSTALLATION

Note the following items, and then install in the reverse order of removal.
CAUTION:
- **Before installation, apply lubricant to seal of fuel filler lid base assembly contacting with filler neck for inserting smoothly.**
- **After installation, check fuel filler lid assembly open/close, lock/unlock operation.**

NOTE:

- The following table shows the specified values for checking normal installation status.
- Fitting adjustment cannot be performed.



Unit: mm [in]

Portion			Standard
Fuel filler lid ① – Body side outer ②	Ⓐ – Ⓐ	Clearance	2.0 – 4.0 [0.079 – 0.157]
		Surface height	(–1.0) – (+1.0) [(–0.039) – (+0.039)]

FUEL FILLER LID OPENER

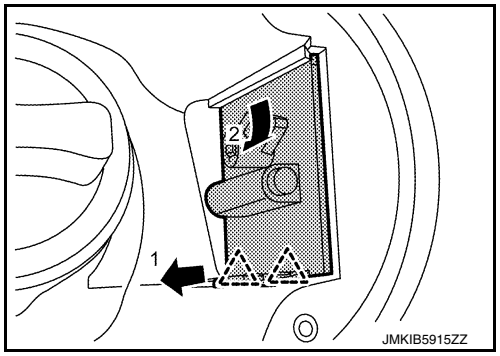
FUEL FILLER LID OPENER : Removal and Installation

INFOID:0000000013563192

REMOVAL

1. Disengage fuel filler lid opener actuator fixing pawls, and then remove fuel filler lid opener actuator according to the numerical order 1→2 indicated by arrows as shown in the figure.

△ : Pawl



2. Disconnect fuel lid opener actuator harness connector.

INSTALLATION

Note the following item, and then install in the reverse order of removal.

CAUTION:

After installation, check the open/close, lock/unlock operation.

FUEL FILLER LID OPENER : Unlock procedures

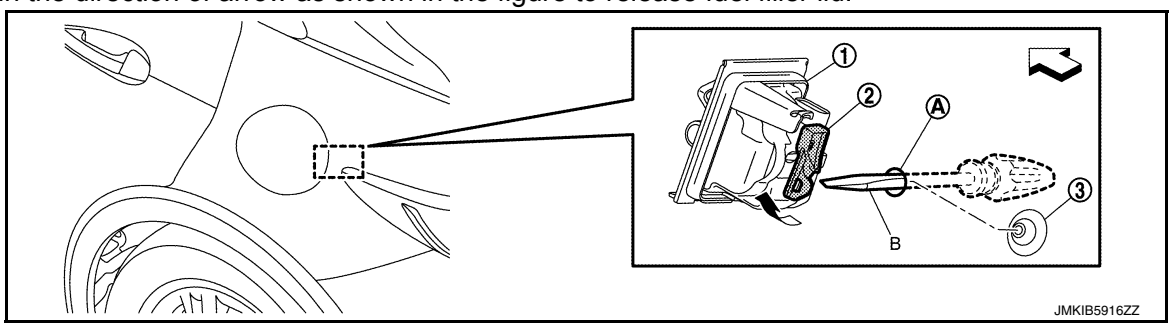
INFOID:0000000013563193

NOTE:

Release fuel filler lid according to the following procedures when fuel filler lid cannot be opened due to a malfunction of fuel filler lid opener actuator or battery discharge.

1. Remove rear wheel house protector. Refer to EXT-57, "Removal and Installation".

2. Remove grommet ③ from rear wheel house outer, and then insert a remover tool (B), etc. into grommet installation hole Ⓐ of rear wheel house outer and operate opener lever ② of fuel filler lid opener actuator ① in the direction of arrow as shown in the figure to release fuel filler lid.



⇦ : Vehicle front

DOOR LOCK AND UNLOCK SWITCH

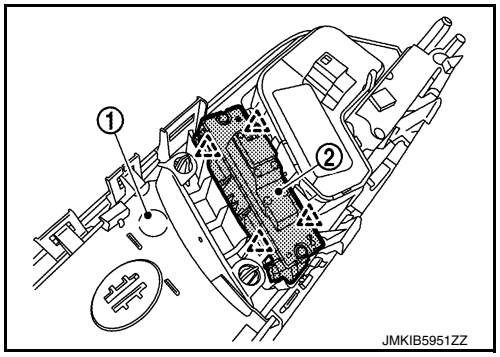
Removal and Installation

INFOID:0000000013550188

REMOVAL

1. Remove inside handle escutcheon. Refer to INT-14, "Removal and Installation".
2. Remove door lock and unlock switch ② from inside handle escutcheon ①.

: Pawl



INSTALLATION

Install in the reverse order of removal.

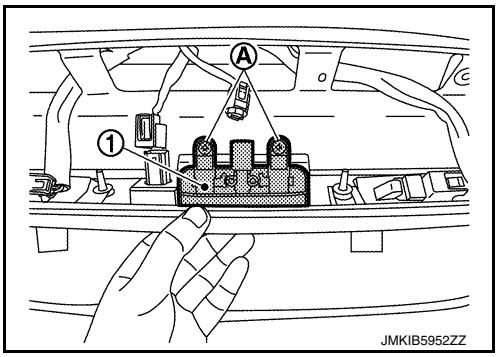
BACK DOOR OPENER SWITCH

Removal and Installation

INFOID:0000000013550189

REMOVAL

1. Remove back door finisher. Refer to EXT-63, "BACK DOOR FINISHER : Removal and Installation".
2. Disconnect back door opener switch harness connector.
3. Remove the mounting screws Ⓐ, and then remove back door opener switch ①.



INSTALLATION

Install in the reverse order of removal.

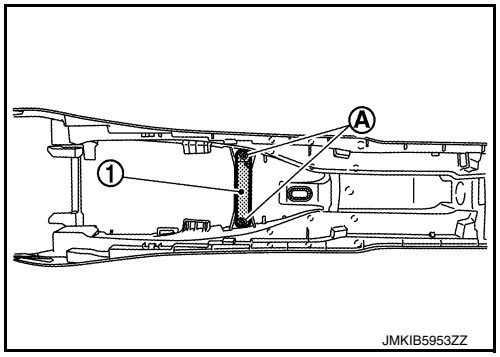
FRONT INSIDE KEY ANTENNA

Removal and Installation

INFOID:0000000013550190

REMOVAL

1. Remove center console assembly. Refer to IP-22, "Removal and Installation".
2. Remove the mounting screws Ⓐ, and then remove front inside key antenna ①.



INSTALLATION

Install in the reverse order of removal.

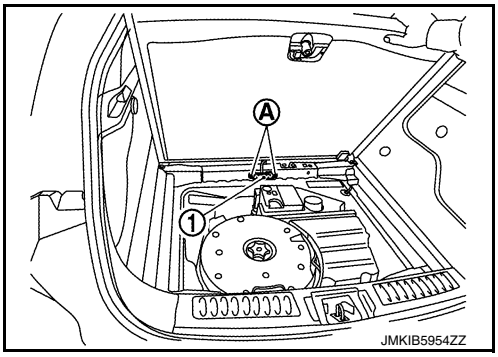
REAR INSIDE KEY ANTENNA

Removal and Installation

INFOID:0000000013550191

REMOVAL

1. Remove luggage floor board. Refer to INT-36, "Exploded View".
2. Remove the mounting bolts Ⓐ, and then remove rear inside key antenna ①.



INSTALLATION

Install in the reverse order of removal.

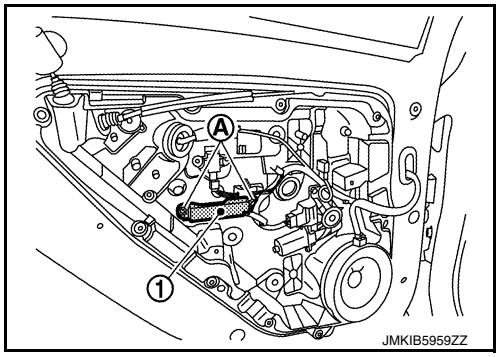
OUTSIDE KEY ANTENNA

Removal and Installation

INFOID:0000000013550192

REMOVAL

1. Remove rear door finisher. Refer to INT-19, "Removal and Installation".
2. Remove the TORX bolts Ⓐ, and then remove outside key antenna ①.



INSTALLATION

Install in the reverse order of removal.

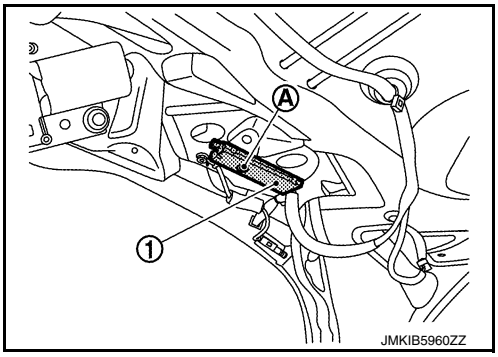
REMOTE KEYLESS ENTRY RECEIVER

Removal and Installation

INFOID:0000000013550193

REMOVAL

1. Remove back door inner finisher. Refer to INT-43, "Removal and Installation".
2. Remove the TORX bolt Ⓐ, and then remove remote keyless entry receiver ①.



INSTALLATION

Install in the reverse order of removal.

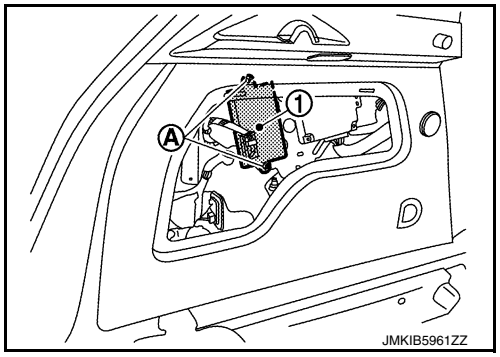
INTELLIGENT KEY UNIT

Removal and Installation

INFOID:0000000013550194

REMOVAL

1. Remove luggage side finisher lid LH. Refer to INT-36, "Exploded View".
2. Remove the mounting nuts Ⓐ, and then remove Intelligent Key unit ①.



INSTALLATION

Install in the reverse order of removal.

CAUTION:

After replacing Intelligent Key unit, perform additional service when replace control unit. Refer to DLK-99, "Description".

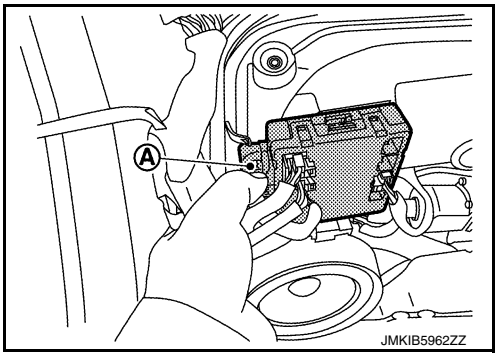
FRONT DOOR CONTROL UNIT

Removal and Installation

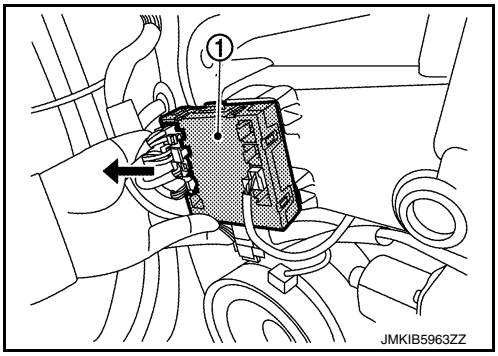
INFOID:0000000013550195

REMOVAL

1. Remove front door finisher. Refer to INT-14, "Removal and Installation".
2. Pinch the mounting clip Ⓐ and disengage tab.



3. Remote the front door control unit ① from front door.



INSTALLATION

Install in the reverse order of removal.

CAUTION:

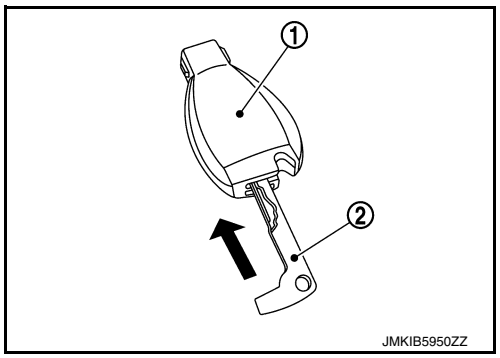
After replacing front door control unit, perform additional service when replace control unit. Refer to DLK-100, "Description".

INTELLIGENT KEY BATTERY

Removal and Installation

INFOID:0000000013550196

1. Take the mechanical key out of the Intelligent Key.
2. Press mechanical key ② into the opening in the Intelligent Key in the direction of the arrow until battery tray cover ① opens.



3. Remove battery tray cover ①.
4. Repeatedly tap the Intelligent Key against your palm unit battery falls out.
5. Insert the new battery with the positive terminal facing upwards. Use a lint-free cloth to do so.

Battery replacement	**:Coin-type lithium battery (CR2025)**

6. Make sure that the surface of the battery is free of lint, grease and other contamination.
7. Insert the front tabs of battery tray cover ① and then press to close it.
8. Insert the mechanical key into the Intelligent Key.
9. Check the function of all key buttons on the vehicle.