SECTION MIR
MIRRORS

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PRECAUTION

PRECAUTIONS

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

INFOID:0000000013550830

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.

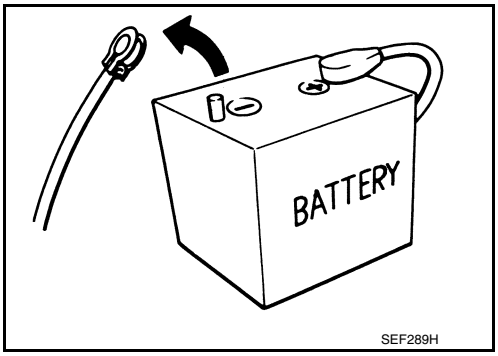
Precautions for Removing Battery Terminal

INFOID:0000000013550831

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.

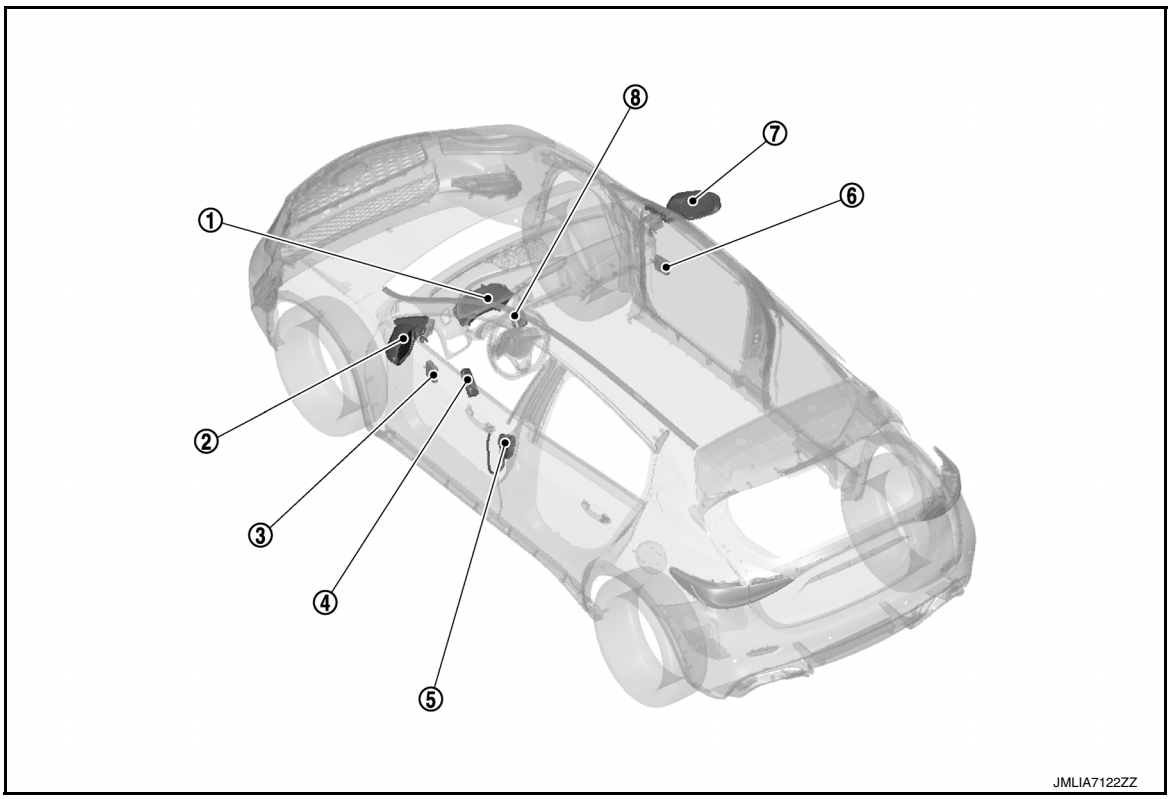
SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location

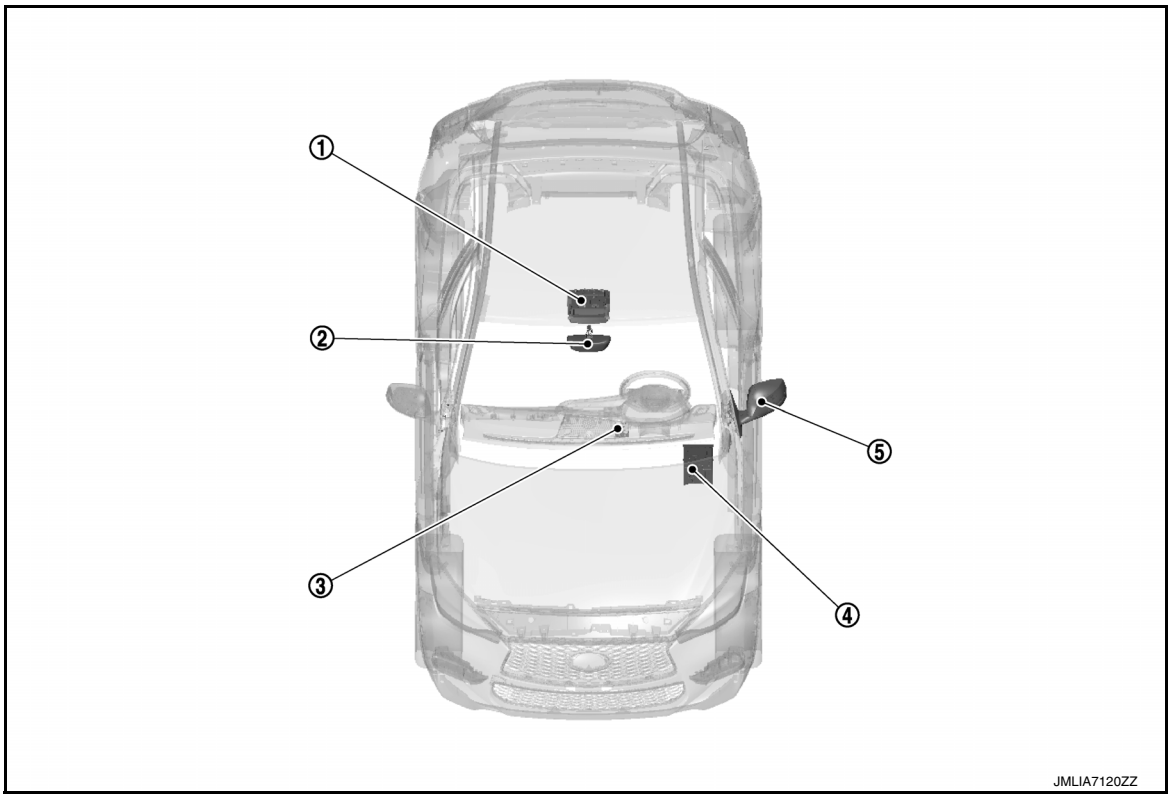
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DOOR MIRROR



No.	Component	Function
①	Combination meter	It communicates front door control unit via CAN communication. Refer to MWI-7, "METER SYSTEM : Component Parts Location".
②	Door mirror LH	• Door mirror integrates door mirror motor and folding motor. • Folding motor retracts door mirror when open/close switch is operated. • Door mirror motor operates door mirror face when mirror switch is operated.
③	Left front door control unit	Perform the control of door mirror. Refer to DLK-10, "DOOR LOCK SYSTEM : Component Parts Location".
④	Power window main switch (door mirror remote control switch)	Refer to MIR-6, "Power Window Main Switch (Door Mirror Remote Control Switch)".
⑤	Front door lock assembly [Door switch (Driver side)]	It sends door switch signal to left door control unit.
⑥	Right front door control unit	Perform the control of door mirror. Refer to DLK-10, "DOOR LOCK SYSTEM : Component Parts Location".
⑦	Door mirror RH	• Door mirror integrates door mirror motor and folding motor. • Folding motor retracts door mirror when open/close switch is operated. • Door mirror motor operates door mirror face when mirror switch is operated.
⑧	Electronic ignition switch control unit	It communicates front door control unit via CAN communication. Refer to PCS-5, "Component Parts Location".

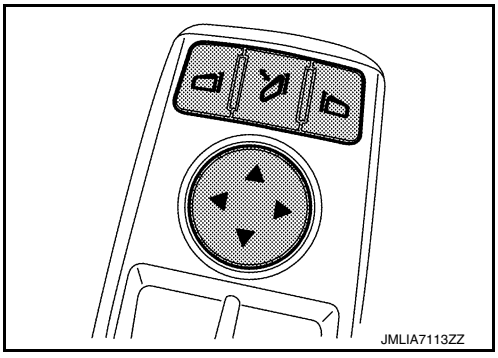
INSIDE MIRROR



No.	Component	Function
①	Overhead control panel control unit	It communicates BCM via LIN communication. Refer to MWI-7, "METER SYSTEM : Component Parts Location".
②	Inside rear view mirror	Refer to MIR-7, "Inside Rear View Mirror".
③	Electronic ignition switch control unit	It communicates Left front door control unit via CAN communication. Refer to PCS-5, "Component Parts Location".
④	BCM	It communicates Left front door control unit via CAN communication. Refer to BCS-8, "BODY CONTROL SYSTEM : Component Parts Location".
⑤	Door mirror (Driver side)	Dimming unit built in to the glass mirror.

Power Window Main Switch (Door Mirror Remote Control Switch)

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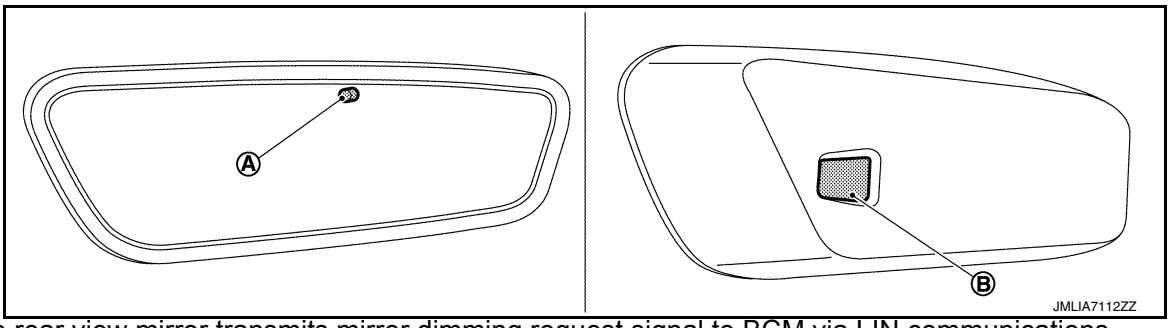


- Power window main switch (door mirror remote control switch) transmits mirror switch signal and changeover switch signal to front door control unit (driver side).
- Door mirror remote control switch is integrated with power window main switch.
- Power window main switch (door mirror remote control switch) integrates the open/close switch, mirror switch, and changeover switch.
- Door mirror retraction operation is performed when open/close switch is operated.
- Mirror face angle adjustment is performed when mirror switch is operated.
- The door mirror for which angle adjustment is performed is switch by operating the changeover switch.

Inside Rear View Mirror

INFOID:0000000013550834

- Forward mirror dimming light sensor Ⓑ and rearward mirror dimming light sensor Ⓐ is integrated with inside rear view mirror.

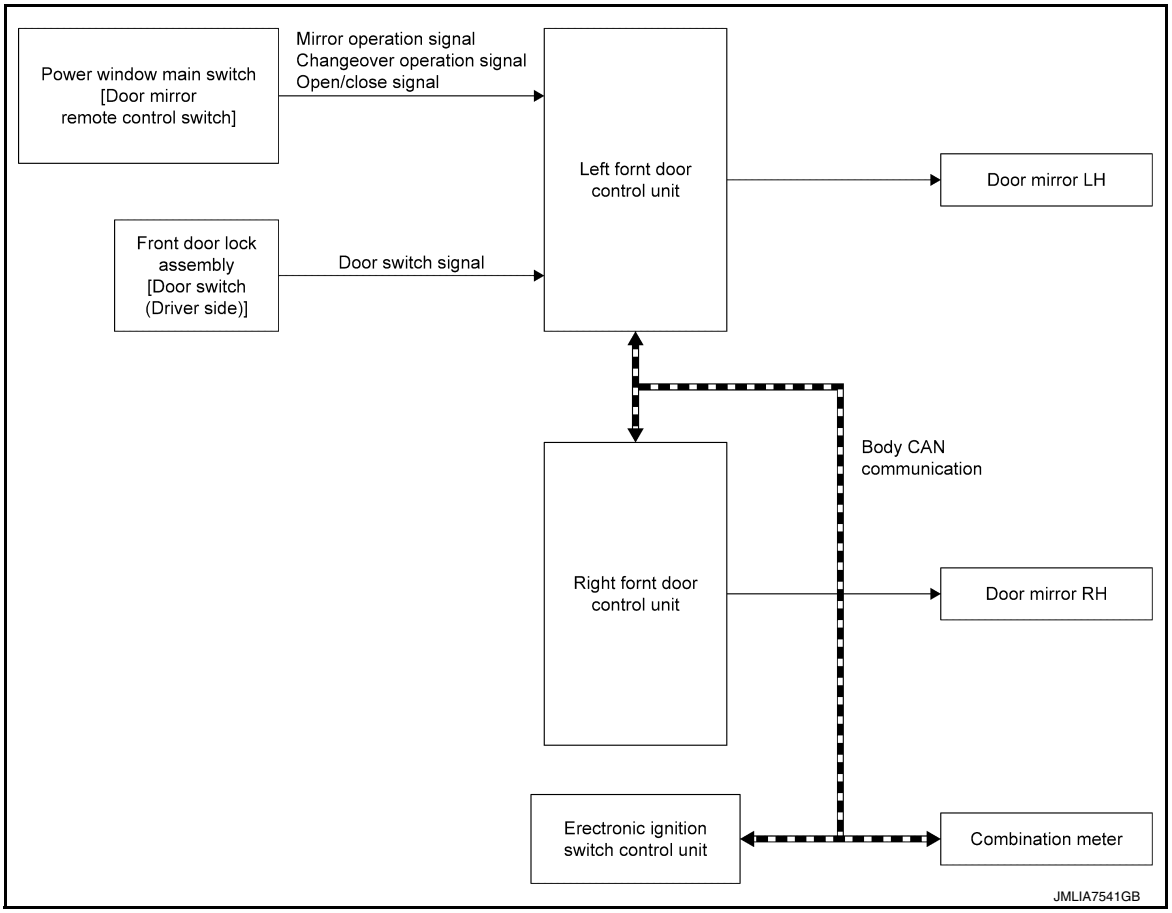


- Inside rear view mirror transmits mirror dimming request signal to BCM via LIN communications.
- It automatically changes the light transmittance according to the brightness of the light from the headlights of the vehicle behind.

SYSTEM
DOOR MIRROR SYSTEM
DOOR MIRROR SYSTEM : System Description

INFOID:0000000013550835

SYSTEM DIAGRAM



MANUAL FUNCTION

Description

- Front door control unit controls door mirror.
- Front door control unit inputs changeover switch signal and perform the LH/RH control of door mirror motor supplying electric power when changeover switch is operated.
- Front door control unit inputs mirror switch signal and supplies electric power to door mirror.
- Front door control unit inputs open/close switch signal and supplies electric power to door mirror.
- The ignition switch signal and vehicle speed signal are transmitted from electronic ignition switch control unit to front door control unit via CAN communication.

Operation Conditions

If the following conditions are not satisfied, operation is not performed.

- Ignition switch: ON or ACC
- Changeover switch: Select either left or right

AUTOMATIC DRIVE POSITIONER LINKD OPERATION

Door mirror control is included in automatic drive positioner system. Refer to automatic drive positioner system for more details.

Refer to ADP-14, "MEMORY FUNCTION : System Description".

REVERSE INTERLOCK DOOR MIRROR SYSTEM

Description

- Select either of the door mirror faces by changeover switch, and then set mirror face downward.

- When ignition switch is ON position and shift is R position, electronic ignition switch control unit sends the reverse gear shift signal to front door control unit (passenger side).
- When the R signal is detected, front door control unit (passenger side) activated mirror motor.

Operation Conditions

If the following conditions are not satisfied, operation is not performed.

- Reverse interlock door mirror function: ON
- Ignition switch: ON
- Changeover switch: Select either left or right
- Shift position: R position

NOTE:

During the reverse interlock door mirror system, if all of the above conditions are not satisfied, mirror face returns to original angle.

AUTO RETRACTABLE DOOR MIRROR FUNCTION

Description

- Auto retract door mirror operate when vehicle locks by central locking system.
- When door switch signal (driver side) is detected, auto unfold door mirror operate.

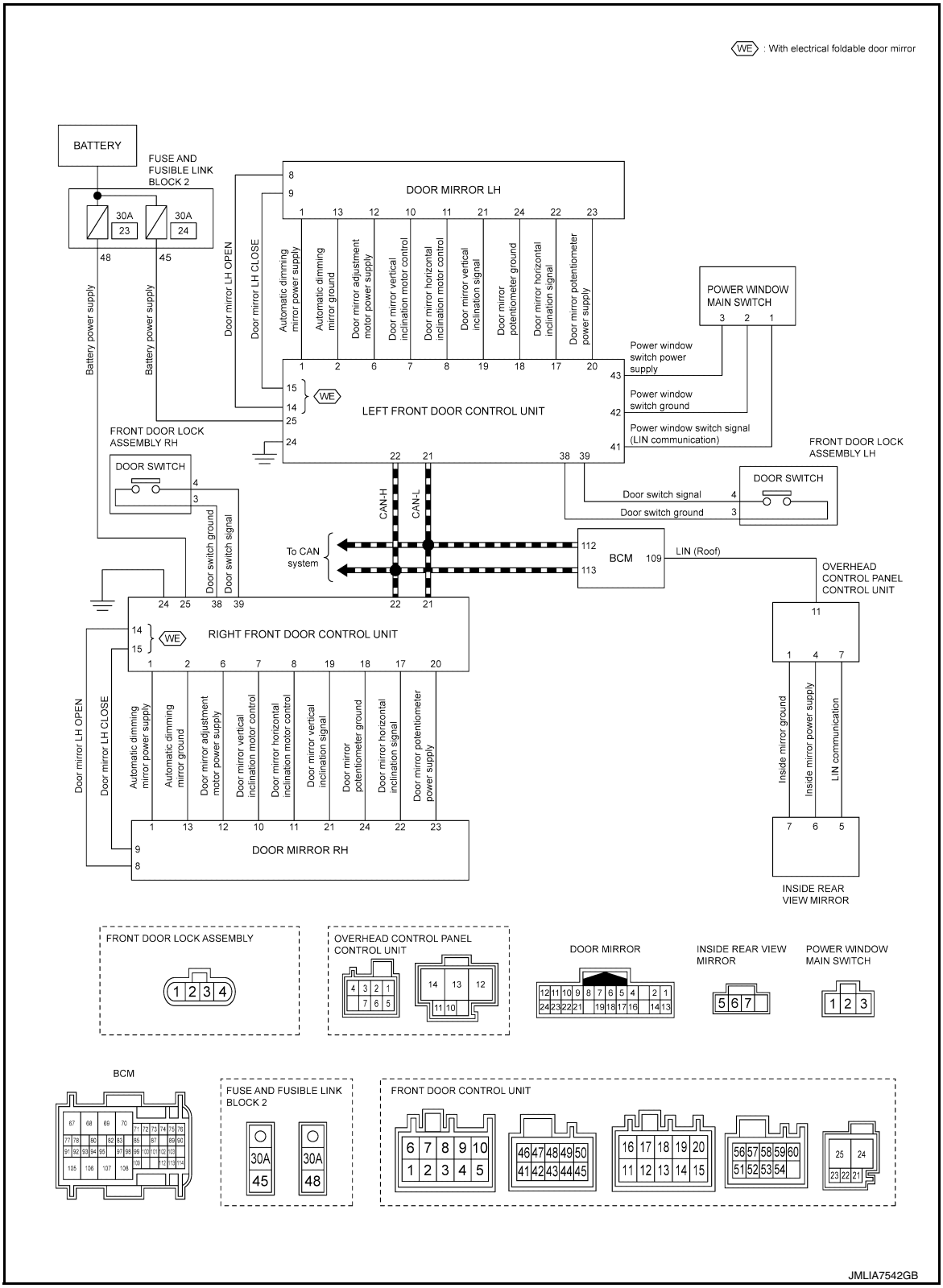
Operation Conditions

If the following conditions are not satisfied, operation is not performed.

- Auto retractable door mirror function: ON
- Ignition switch: ON

DOOR MIRROR SYSTEM : Circuit Diagram

INFOID:0000000013550836

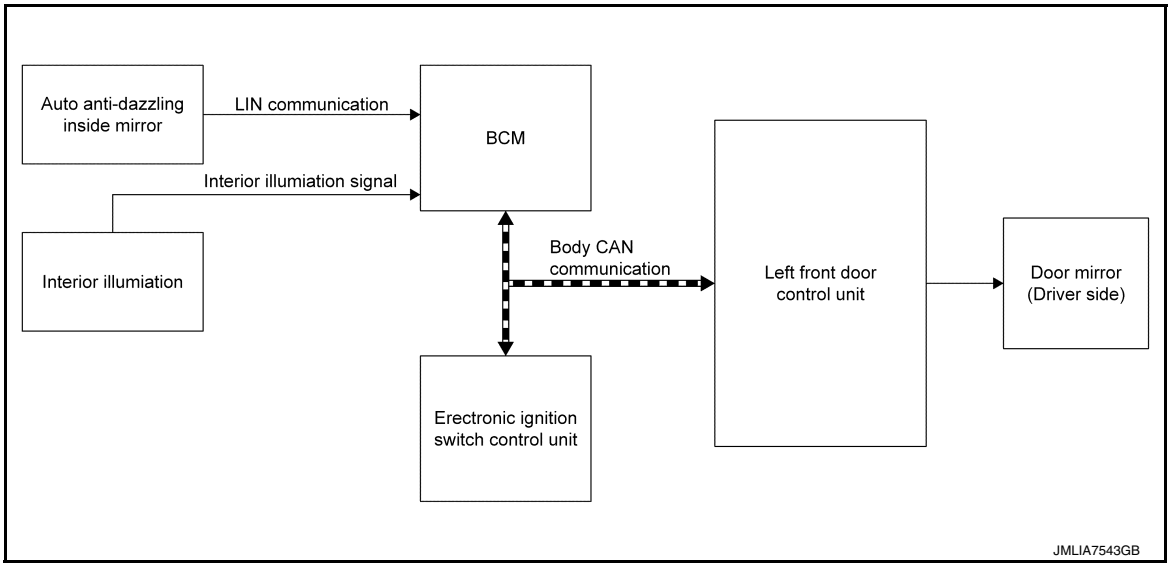


AUTO ANTI-DAZZLING INSIDE MIRROR SYSTEM

AUTO ANTI-DAZZLING INSIDE MIRROR SYSTEM : System Description

INFOID:0000000013550837

SYSTEM DIAGRAM



AUTO ANTI-DAZZING FUNCTION

Description

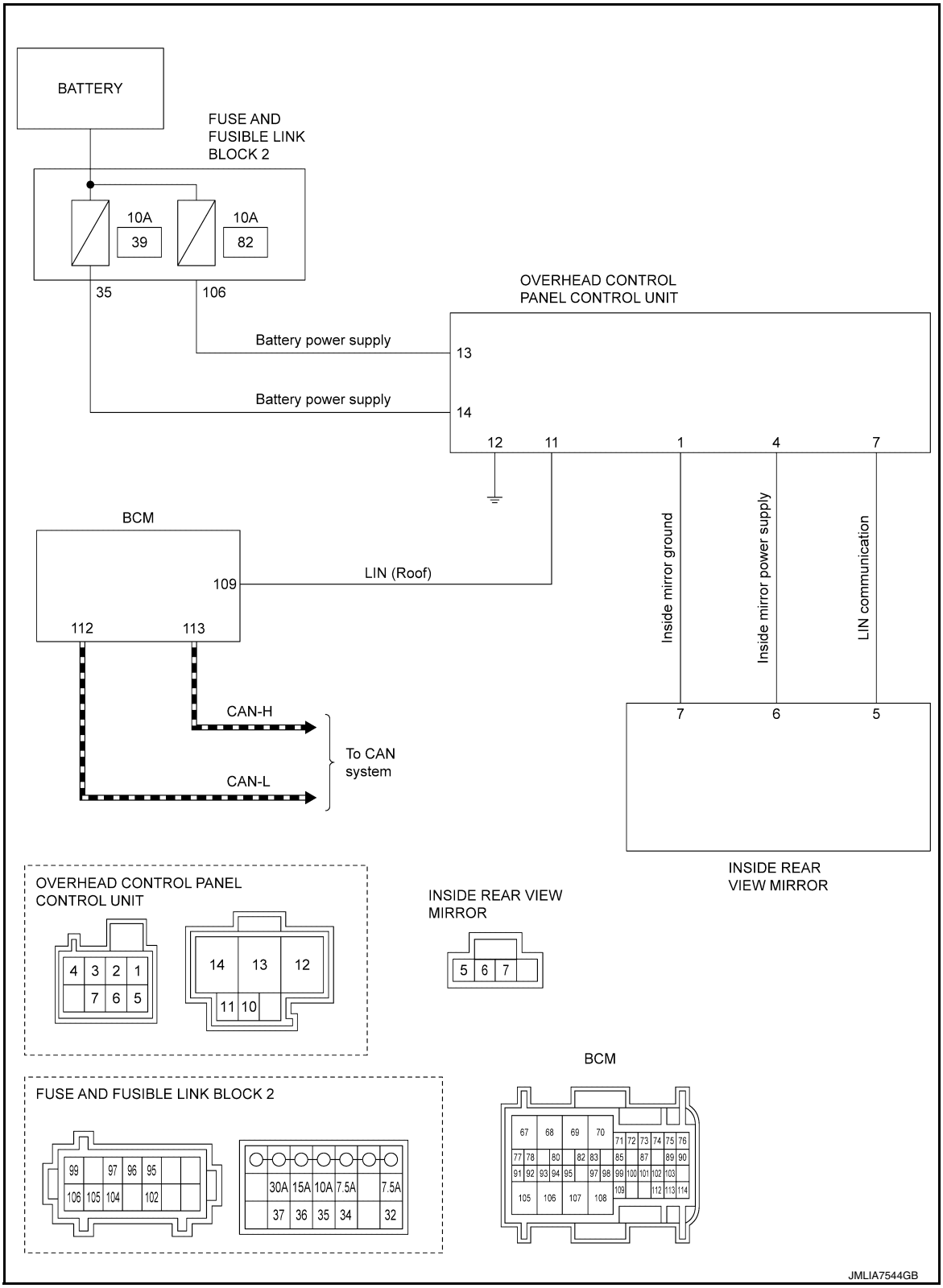
- The sensor built inside the mirror detects the brightness of headlights of the vehicle behind and automatically changes the light transmission to decrease the brightness.
- Auto dimming request signal transmits BCM via LIN communication.
- BCM sends auto dimming operation signal to front door control unit (Driver side).
- When reverse gear shift signal and illumination signal is detected, system is not operate.

Operating condition

- Ignition switch: ON

AUTO ANTI-DAZZLING INSIDE MIRROR SYSTEM : Circuit Diagram

INFOID:0000000013550838



DIAGNOSIS SYSTEM (LEFT FRONT DOOR CONTROL UNIT)

CONSULT Function (Left Front Door Control Unit)

INFOID:0000000013550839

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
SWITCH ILLUMINATION	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	Display the status of super lock operation
DEACTIVATE ADD DR LOCK	Display the status of super lock operation
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:0000000013550840

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
SWITCH ILLUMINATION	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	Display the status of super lock operation
DEACTIVATE ADD DR LOCK	Display the status of super lock operation
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 (BCM)

CONSULT Function (BCM)

INFOID:0000000013550841

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

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

SELF DIAGNOSTIC RESULT

Refer to BCS-51, "DTC Index".

WORK SUPPORT

Monitor Item	Description
Replace decoupling relay	Reset the counter of decoupling relay
Replace eco start stop function add battery	Reset the counter of sub battery relay
Deactivate production run	—

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
Rear map lamp switch	—
Map lamp switch (FL)	—
FR PERSONAL LAMP	—
Lamp state 1.SR left	—
Lamp state 1.SR right	—
Vehicle tilt cancel switch	—
Intruder cancel switch	—
Info button	—
Info button	—
Telematics switch	—
AUTO LIGHT SW	—
Sunroof/sunshade switch	—
REAR LEFT	—
REAR RIGHT	—
WIND LIFT RLY CONT HIGH	—
WIND LIFT RLY CONT DEEP	—
SUPPLY BATTERY 1	Display the status of power supply
SUPPLY BATTERY 2	Display the status of power supply
SUPPLY BATTERY 3	Display the status of power supply

Monitor Item	Description
SUPPLY BATTERY 4	Display the status of power supply
SUPPLY BATTERY 5	Display the status of power supply
FUEL LEVEL SEN 1 REF	Display the status of fuel level sensor
FUEL LEVEL SEN 2 REF	Display the status of fuel level sensor
HIGH BEAM RIGHT	Display the status of high beam right
HIGH BEAM LEFT	Display the status of high beam left
TURN SIGNAL FRONT RIGHT	Display the status of turn signal front right
TURN SIGNAL FRONT LEFT	Display the status of turn signal front right
PARKING LAMP FRONT RIGHT	Display the status of parking lamp front right
PARKING LAMP FRONT LEFT	Display the status of parking lamp front left
SIDEMARKER FRONT RIGHT	—
SIDEMARKER FRONT LEFT	—
DTRL RIGHT	Display the status of daytime running lamp right
DTRL LEFT	Display the status of daytime running lamp left
PARKING LAMP 2 FR RIGHT	—
PARKING LAMP 2 FR LEFT	—
FOG LAMP RIGHT	Display the status of front fog lamp right
FOG LAMP LEFT	Display the status of front fog lamp left
STOP TAIL LAMP 2 RIGHT	—
STOP TAIL LAMP 2 LEFT	—
STOP TAIL LAMP 1 RIGHT	—
STOP TAIL LAMP 1 LEFT	—
TURN SIGNAL REAR RIGHT	—
TURN SIGNAL REAR LEFT	—
LICENSE PLATE LAMP RIGHT	Display the status of license plate lamp right
LICENSE PLATE LAMP LEFT	Display the status of license plate lamp left
BACK-UP LAMP LEFT	Display the status of back-up lamp left
BACK-UP LAMP RIGHT	Display the status of back-up lamp left
FOG LAMP	Display the status of rear fog lamp
TAIL LAMP RIGHT	Display the status of tail lamp right
TAIL LAMP LEFT	Display the status of tail lamp left
Ambient lamp (blue)	—
START / STOP FUNC ADD BAT	Display the status of sub battery
STAGE OF WIND WIPER	Display the status of front wiper
WIND WIPER IN REST POS	Display the status of front wiper position
STATUS OF CIRCUIT 15X	—
CIRCUIT 15	Display the status of ignition switch power supply
CIRCUIT 15R1 RELAY	Display the status of terminal relay (15R1)
CIRC 15R2 POW OUTLET RLY	Display the status of terminal relay (15R2)
SYMBOL ILLUMINATION	—
OUTSIDE TEMP READING	Display outside temperature
COOLANT LEVEL	Display the status of coolant level
WASHER FLUID LEVEL	Display the status of washer fluid level
BRAKE FLUID LEVEL	Display the status of brake fluid level

Monitor Item	Description
FRONT BRAKE LININGS	—
LH ENG HOOD CONTACT SW	—
RH ENG HOOD CONTACT SW	—
LH RR DR ROTARY TUMB SW	—
RH RR DR ROTARY TUMB SW	—
FUEL FILLER FLAP	Display the status of fuel filler lid
TK LID EMERGENCY OP SW	—
LEFT PARKING LAMP	—
RIGHT PARKING LAMP	—
FRONT FOG LAMP BUTTON	Display the status of front fog lamp switch
REAR FOG LAMP BUTTON	Display the status of rear fog lamp switch
AUTO ON/OFF DRIVING LIGHT	—
EXT LT SW IN POS MNL DR LT	—
NIGHT VIEW ASSIST BUTTON	—
STANDING LIGHTS	—
VOLTAGE AT CIRCUIT 30G	Display the status of power supply via latching terminal relay 30g
START / STOP FUNC ADD BAT	—
START / STOP FUNC ADD BAT	—
BATTERY	Display the voltage of battery
BATTERY	Display the current of battery
BATTERY	Display the temperature of battery
INT RESIST	—
ENG STP INHIBI: OBD EL SYS	—
ENG STP INHIBI: LIN ERROR	—
ENG STP INHIBI: DIAGNOSIS	—
ENG STP INHIBI: AMBIENT	—
ENG STP INHIBI: BATTERY	—
RH FUEL LEVEL IND SENSOR	—
LH FUEL LEVEL IND SENSOR	—
REAR WINDOW WIPER RELAY	Display the status of rear wiper relay
TRUNK LAMP	Display the status of luggage room lamp
DOOR HANDLE ILL (RR DOOR)	—
AMBI ILL (IP AND RR DOOR)	—
FOOT LAMP	Display the status of foot lamp
LH FR ILL DOOR SILL MOLD	—
RH FR ILL DOOR SILL MOLD	—
TRUNK LAMP	Display the status of back door lamp
DOOR HANDLE ILL (RR DOOR)	—
AMBI ILL (IP AND RR DOOR)	—
FOOT LAMP	Display the status of foot lamp
LH FR ILL DOOR SILL MOLD	—
RH FR ILL DOOR SILL MOLD	—
SPRAY NOZZ HOSE HEATER	Display the status of spray nozzle hose heater
WIND WASHER SYSTEM PUMP	Display the status of front washer pump

Monitor Item	Description
WIND WASH PUMP: RR WIND	Display the status of rear washer pump
Headlamp washer pump	—
HEADLAMP CLEAN SYS PUMP	—
HORN RELAY	Display the status of horn relay
LICENSE PLATE LAMP	Display the status of license plate lamp
BRAKE / TAILLIGHT 1 LEFT	—
BRAKE / TAILLIGHT 1 RIGHT	—
BRAKE / TAILLIGHT 2 LEFT	—
BRAKE / TAILLIGHT 2 RIGHT	—
CENTER BRAKE LAMP	Display the status of high mounted stop lamp
RUN BOARD COURTE LT LH	—
RUN BOARD COURTE LT RH	—
SIDEMARKER FL	—
SIDEMARKER FR	—
TAIL LAMP LEFT	Display the status of tail lamp left
TAIL LAMP RIGHT	Display the status of tail lamp right
BACK-UP LAMP LEFT	—
BACK-UP LAMP RIGHT	—
FOG LAMP	—
FRONT FOG LAMP LEFT	—
FRONT FOG LAMP RIGHT	—
TURN SIGNAL RL	—
TURN SIGNAL RR	—
TURN SIGNAL FL	—
TURN SIGNAL FR	—
DTRL LEFT	—
DTRL RIGHT	—
LOW BEAM LEFT	—
LOW BEAM RIGHT	—
HIGH BEAMS / IR-RAD LEFT	—
HIGH BEAMS / IR-RAD RIGHT	—
STANDING LIGHT 1 LEFT	—
STANDING LIGHT 1 RIGHT	—
STAND LT 2 / TURN SIG 2 LH	—
STAND LT 2 / TURN SIG 2 RH	—
STOP LAMP	—
CIRCUIT 30G RELAY	Display the status of latching terminal relay 30g
DECOUPLING RELAY	Display the status of decoupling relay
IOD RELAY EARLY COUNTER	—
CIRCUIT 30G RELAY	Display the counter of latching terminal relay 30g
IOD LOW VOLT COUNTER	—
DECOUPLING RELAY	Display the counter of decoupling relay
START/STOP FUNC BAT RLY	Display the counter of sub battery relay
Light sensor present	—

Monitor Item	Description
TUNNEL SENSOR	—
INTERIOR ILLUMINATION	—
LOW BEAM SW	—
RAIN SENSOR	—
LIGHT SENSOR	—
Electrical charge throughput	—
LIFTGATE CENT LCK MOTOR	—
LIFTGATE EXTERNAL OP SW	—
LIFTGATE ROTARY TUMB SW	—

ACTIVE TEST

Monitor Item	Description
Check left front turn signal lamp	—
Check eco start stop function additional battery relay	This function able to check sub battery relay
Check right front turn signal lamp	—
Check right rear turn signal lamp	—
Check left rear turn signal lamp	—
Check right daytime running light headlamp	—
Check left daytime running light headlamp	—
Left front lamp unit	—
Centre brake lamp	This function able to check high mounted stop lamp
LICENSE PLATE LAMPS	This function able to check license plate lamps
Left rear fog lamp	This function able to check left rear fog lamp
Windshield washer system pump	This function able to check front wiper washer
Headlamp clean system pump	—
Resetting reading of frequency counter	This function able to reset the counter of latching terminal relay 30g, decoupling relay and sub battery relay
Tank cap central locking actuator	This function able to check fuel filler flap
Side marker lamp	—
Inner left rear lamp unit	This function able to check left rear combination lamp (back door side)
Left rear power window	This function able to check left rear power window
Right rear lamp unit	This function able to check right rear combination lamp (body side)
Front turn signal lamp	This function able to check front turn signal lamp
ERASE ALARM SOURCES	—
Circuit 30G relay	This function able to check latching terminal relay 30g
Rear fuse box	This function able to check injection relay, terminal relay (15R1), terminal relay (15R2) and rear wiper relay
Engine compartment fuse and relay module	This function able to check injection relay, fanfare relay, front wiper HI/LO relay and front wiper relay
Symbol illumination	—
Activate demo mode of exterior lamp	—
REAR DOORS	This function able to check rear door
Liftgate central locking motor	—
Right rear power window	This function able to check right rear power window
Running board courtesy light	—

Monitor Item	Description
Trunk lid emergency opening switch	—
Illuminated door sill moldings	—
Right front lamp unit	—
Left rear lamp unit	This function able to check left rear combination lamp (body side)
Footwell lamp	This function able to check foot lamp
Backup Lamp	This function able to check back-up lamp
Trunk lamp	—
Spray nozzle hose heater	This function able to check spray nozzle hose heater
Inner right rear lamp unit	This function able to check right rear combination lamp (back door side)
Daytime running light	This function able to check daytime running lamp
WINDSCREEN WIPER	This function able to check front wiper and rear wiper
Eighth to last data record	—
Fifth from last data record	—
Fourth from last data record	—
Last data record	—
Ninth to last data record	—
Second from last data record	—
Seventh to last data record	—
Sixth to last data record	—
Tenth to last data record	—
Third from last data record	—
Front fog lamp	This function able to check front fog lamp
Door handle illumination rear doors	—
Ambiance illumination of rear door	—
Interior Lamp	—
Mirror lamps of sun visors	—
Reading lamp actuation	—
Rear lamp actuation	—
Check component M10 5 RL door power window motor	—
Check component M10 6 RR door power window motor	—
Left rear power window actual value	—
Right rear power window actual value	—
CONFIRMATION OF BATTERY CHANGE	—
OUTPUT FOR THE WIPER ARM HOSE HEATER RELAY HAS A MALFUNCTION	—

ECU DIAGNOSIS INFORMATION

BCM, FRONT DOOR CONTROL UNIT

List of ECU Reference

INFOID:0000000013550842

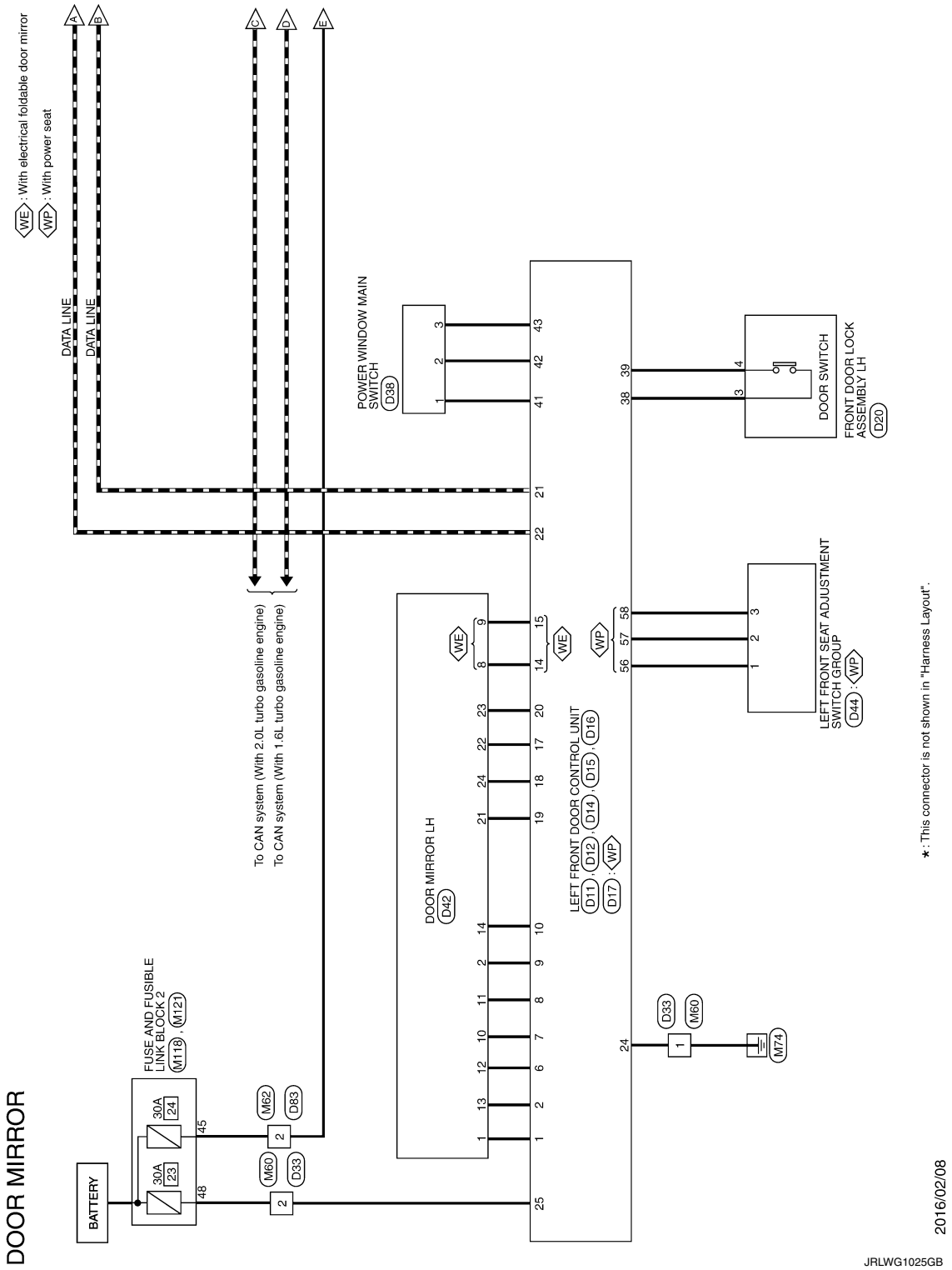
ECU	Reference
BCM	BCS-32, "Reference Value"
	BCS-51, "DTC Index"
Left Front Door Control Module	DLK-50, "Reference Value"
	DLK-57, "Fail-safe"
	DLK-58, "DTC Inspection Priority Chart"
	DLK-60, "DTC Index"
Right Front Door Control Module	DLK-62, "Reference Value"
	DLK-68, "Fail-safe"
	DLK-69, "DTC Inspection Priority Chart"
	DLK-70, "DTC Index"

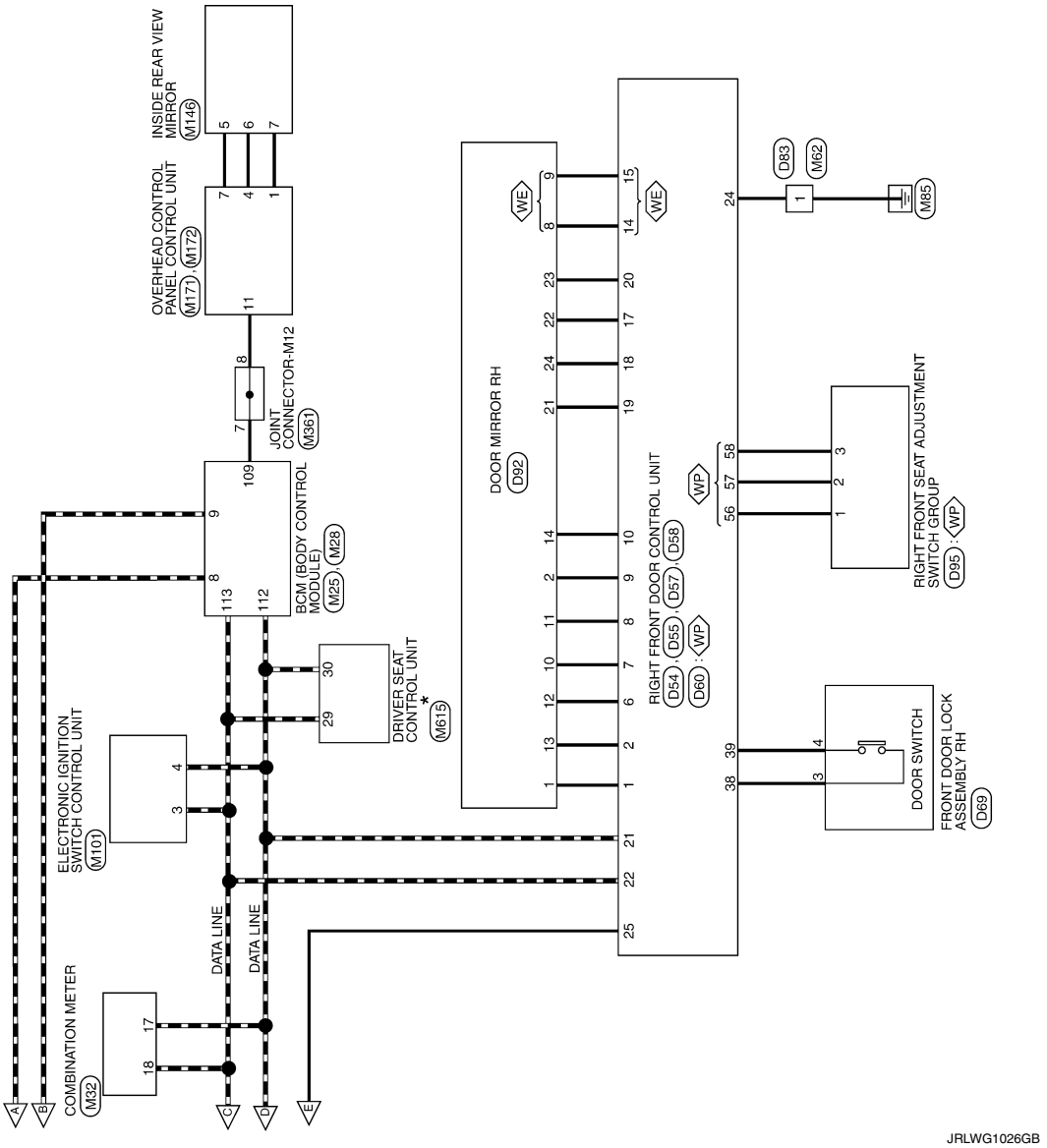
WIRING DIAGRAM

DOOR MIRROR

Wiring Diagram

INFOID:0000000013550843




INSIDE REAR VIEW MIRROR
M146
OVERHEAD CONTROL PANEL CONTROL UNIT
M171, M172
JOINT CONNECTOR-M12
M361
BCM (BODY CONTROL MODULE)
M25, M28
DRIVER SEAT CONTROL UNIT
*
M615
ELECTRONIC IGNITION SWITCH CONTROL UNIT
M101
COMBINATION METER
M32
DATA LINE
DATA LINE
DOOR MIRROR RH
D92
RIGHT FRONT DOOR CONTROL UNIT
D54, D55, D57, D58, D60
WE
WP
D83
M62
M85
RIGHT FRONT SEAT ADJUSTMENT SWITCH GROUP
D95
DOOR SWITCH
FRONT DOOR LOCK ASSEMBLY RH
D69
JRLWG1026GB

DOOR MIRROR

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

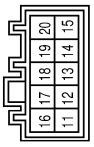
H.S.



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.	D14
Connector Name	LEFT FRONT DOOR CONTROL UNIT
Connector Type	MB_A0025407881

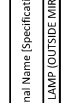
H.S.



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

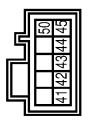
H.S.



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

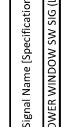
H.S.



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

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

H.S.



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

H.S.



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

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

H.S.



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

JRLWG1027GB

DOOR MIRROR

Connector No.	D38
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	MB_A03954456728

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

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

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_A03954456728

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

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

Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	AUTOMATIC 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.	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.	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

JRLWG1028GB

DOOR MIRROR

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.	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	-
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.	M25
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	MB_A0075405081

H.S.

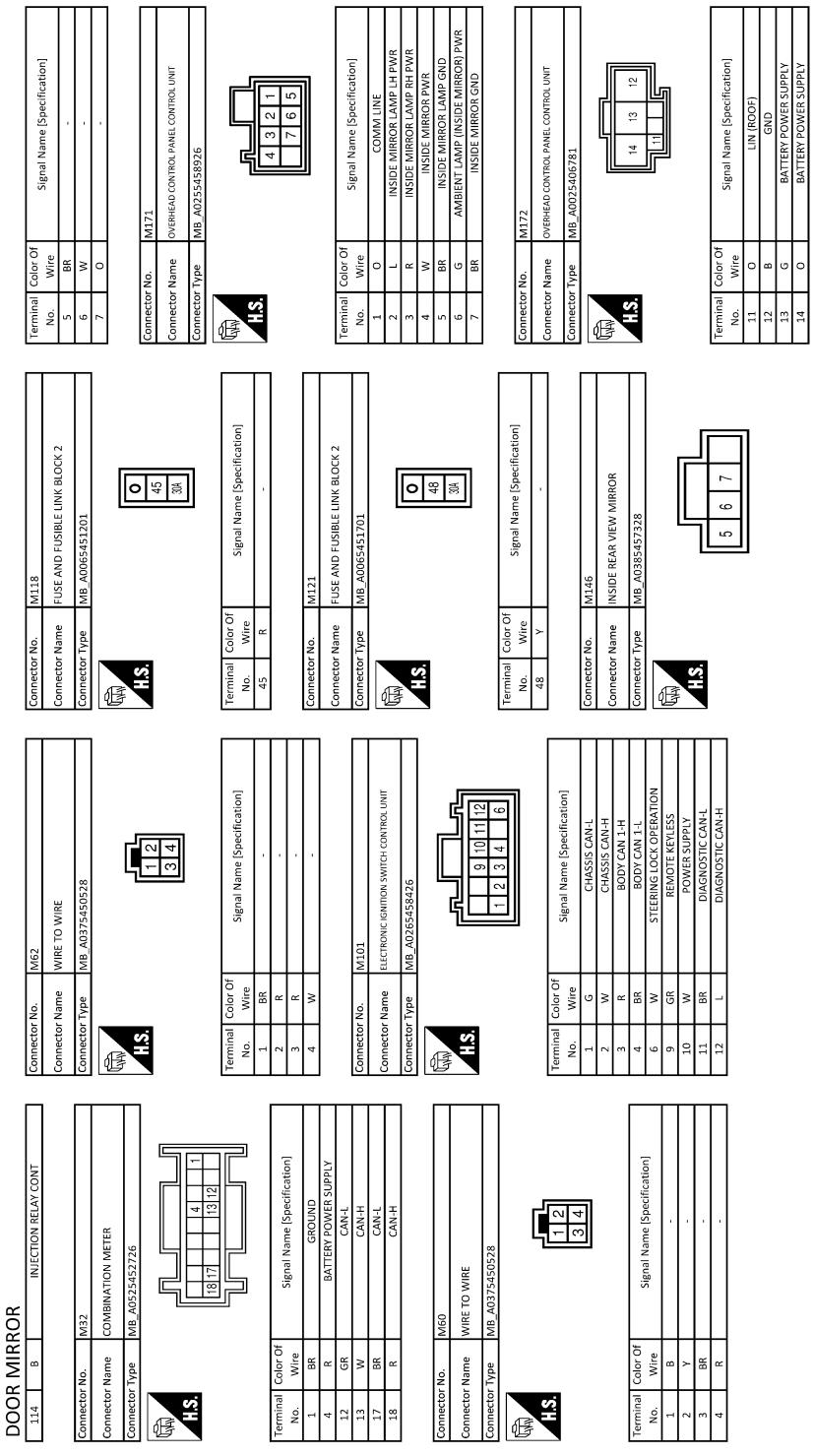
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	ROTARY LIGHT SW GND
2	O	ROTARY LIGHT SW (PU_PR/TAL)
3	R	ROTARY LIGHT SW (AUTO/LOW)
4	G	ROTARY LIGHT SW (FR FOG)
5	Y	-
7	GR	SWITCH INDICATOR
8	R	CAN-H (BODY 2)
9	BR	CAN-L (BODY 2)
12	O	LIN (BS)
14	G	FOOT LAMP

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)

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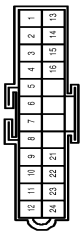


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DOOR MIRROR

Connector No.	M361
Connector Name	JOINT CONNECTOR-M12
Connector Type	FEA24IG

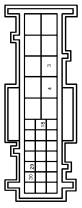
H.S.



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	-

Connector No.	M615
Connector Name	DRIVER SEAT CONTROL UNIT
Connector Type	A24654G0509

H.S.



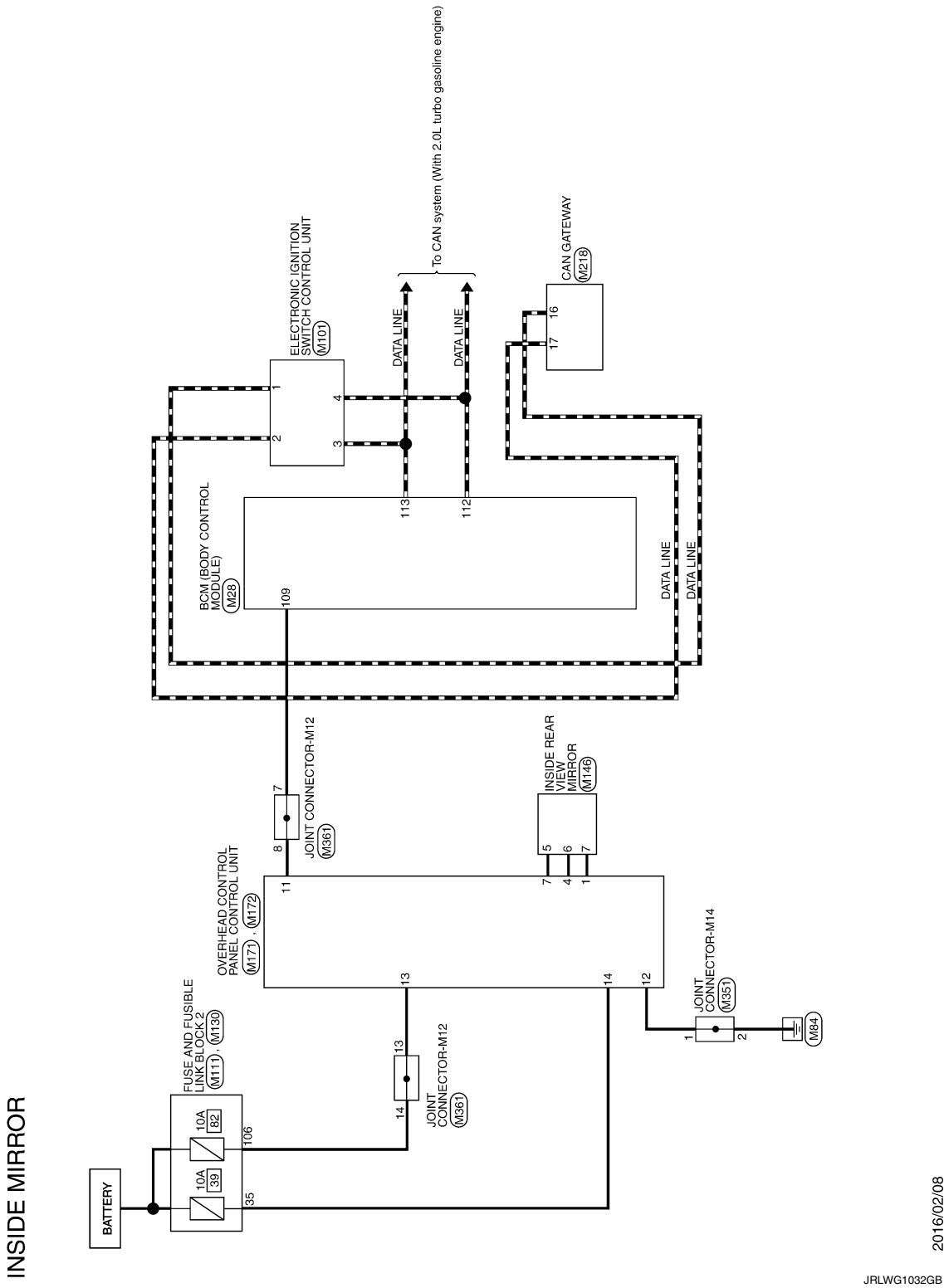
Terminal No.	Color Of Wire	Signal Name [Specification]
3	R	BATTERY POWER SUPPLY
4	BR	GROUND
18	R	BATTERY POWER SUPPLY
29	R	CAN-H
30	BR	CAN-L

JRLWG1031GB

INSIDE MIRROR

Wiring Diagram

INFOID:0000000013550844



INSIDE MIRROR

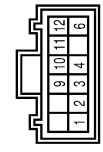
Connector No.	M28
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	MB_A1665400481



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)

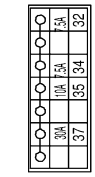
113	R	CAN-H (BODY 1)
114	B	INJECTION RELAY CONT

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



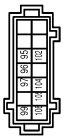
Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	CHASSIS CAN-L
2	W	CHASSIS CAN-H
3	R	BODY CAN 1-H
4	BR	BODY CAN 1-L
6	W	STEERING LOCK OPERATION
9	GR	REMOTE KEYLESS
10	W	POWER SUPPLY
11	BR	DIAGNOSTIC CAN-L
12	L	DIAGNOSTIC CAN-H

Connector No.	M111
Connector Name	FUSE AND FUSIBLE LINK BLOCK 2
Connector Type	MB_A0065450101



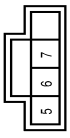
Terminal No.	Color Of Wire	Signal Name [Specification]
32	R	-
34	G	-
35	O	-
37	R	-

Connector No.	M130
Connector Name	FUSE AND FUSIBLE LINK BLOCK 2
Connector Type	MB_A2205453728



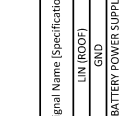
Terminal No.	Color Of Wire	Signal Name [Specification]
95	R	-
96	R	-
97	B	-
99	R	-
102	P	-
104	GR	-
105	V	-
106	W	-

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



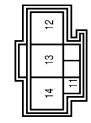
Terminal No.	Color Of Wire	Signal Name [Specification]
5	BR	-
6	W	-
7	O	-

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



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



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

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INSIDE MIRROR

Connector No.	M218
Connector Name	CAN GATEWAY
Connector Type	MB_A0225400581

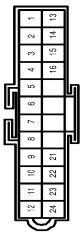
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
13	B	GROUND
14	G	AV COMMUNICATION-L
15	L	AV COMMUNICATION-H
16	G	CHASSIS CAN-L
17	W	CHASSIS CAN-H
18	O	BATTERY POWER SUPPLY
19	P	MULTIFUNCTION MEDIA CAN-L
20	L	MULTIFUNCTION MEDIA CAN-H
21	BR	BODY CAN 1-L
22	R	BODY CAN 1-H
23	L	DIAGNOSTIC CAN-L
24	V	DIAGNOSTIC CAN-H

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

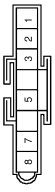
H.S.



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	-

Connector No.	M351
Connector Name	JOINT CONNECTOR-M14
Connector Type	FEA08JB

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	B	-
3	B	-
5	BR	-
7	G	-
8	B	-

JRLWG1034GB

DTC/CIRCUIT DIAGNOSIS

B1D00 OPEN/CLOSE SWITCH

DTC Description

INFOID:0000000013550845

DTC DETECTION LOGIC

DTC		CONSULT screen items		DTC detecting condition	
		(Trouble diagnosis content)	[Malfunction type]		
B1D00	2A	Door mirror remote control switch	[SIGNAL STUCK IN RANGE]	Diagnosis condition	All time
				Signal (terminal)	Door mirror remote control switch signal
				Threshold	Door mirror remote control switch has a malfunction. There is no signal change (ON stuck).
				Diagnosis delay time	25 sec.

POSSIBLE CAUSE

- Harness or connectors (door mirror remote control switch)
- Door mirror remote control switch (button is stuck or internal defect)
- Left front 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?

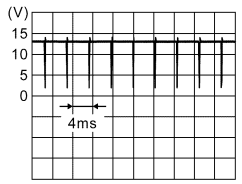
YES >> Refer to MIR-38, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013550846

1.CHECK DOOR MIRROR REMOTE CONTROL SWITCH INPUT SIGNAL

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

(+)		(–)	Condition		Voltage (Approx.)
Power window main switch (door mirror remote control switch)					
Connector	Terminal				
D38	1	Ground	Door mirror remote control switch	Operating	12 V
				Other than above	 JMKIB5942GB

Is the inspection result normal?

YES >> Replace left front door control unit. Refer to DLK-286, "Removal and Installation".
NO >> GO TO 2.

2.CHECK DOOR MIRROR REMOTE CONSTOL SWITCH SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect power window main switch (door mirror remote control switch) and left front door control unit connector.
3. Turn ignition switch ON.
4. 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

Is the inspection result normal?

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

3.REPLACE POWER WINDOW MAIN SWITCH

1. Turn ignition switch OFF.
2. Replace power window main switch (door mirror remote control 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 MIR-38, "DTC Description".

Is DTC “B1D00-2A” detected?

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

B1D04 MIRROR SWITCH

DTC Description

INFOID:0000000013550849

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B1D04	2A	Door mirror remote control switch	[SIGNAL STUCK IN RANGE]	Diagnosis condition	All time
				Signal (terminal)	Door mirror remote control switch signal
				Threshold	Door mirror remote control switch has a malfunction. There is no signal change (ON stuck).
				Diagnosis delay time	25 sec.

POSSIBLE CAUSE

- Harness or connectors (door mirror remote control switch)
- Door mirror remote control switch (button is stuck or internal defect)
- Left front 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?

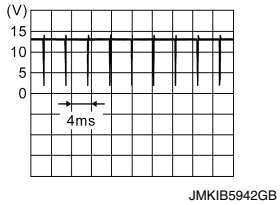
YES >> Refer to MIR-40, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013550850

1.CHECK DOOR MIRROR REMOTE CONTROL SWITCH INPUT SIGNAL

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

(+) Power window main switch (door mirror remote control switch) Connector	(+) Power window main switch (door mirror remote control switch) Terminal	(–)	Condition		Voltage (Approx.)
D38	1	Ground	Door mirror remote control switch	Operating	12 V
				Other than above	

JMKIB5942GB

Is the inspection result normal?

YES >> Replace left front door control unit. Refer to DLK-286, "Removal and Installation".
NO >> GO TO 2.

2.CHECK DOOR MIRROR REMOTE CONSTOL SWITCH SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect power window main switch (door mirror remote control switch) and left front door control unit connector.
3. Turn ignition switch ON.
4. 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

Is the inspection result normal?

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

3.REPLACE POWER WINDOW MAIN SWITCH

1. Turn ignition switch OFF.
2. Replace power window main switch (door mirror remote control 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 MIR-40, "DTC Description".

Is DTC “B1D04-2A” detected?

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

B1DF3 MIRROR SENSOR
LH

LH : DTC Description

INFOID:0000000013550853

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B1DF3	01	Door mirror glass sensor	[ELECTRICAL MALFUNCTION]	Diagnosis condition	All time
				Signal (terminal)	Door mirror glass sensor signal
				Threshold	Harness to the door mirror LH has a short circuit
				Diagnosis delay time	—

POSSIBLE CAUSE
- Short circuit between door mirror LH and left front door control unit
- Door mirror LH
- 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 MIR-42, "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:0000000013550854

1.CHECK DOOR MIRROR SENSOR POWER SUPPLY
1. Turn ignition switch OFF.
2. Disconnect door mirror LH connector.
3. Turn ignition switch ON.
4. Check voltage between door mirror LH harness connector and ground.

(+)		(–)	Voltage (Approx.)
Door mirror LH			
Connector	Terminal		
D42	23	Ground	4 V

Is the inspection result normal?

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

2.CHECK DOOR MIRROR SENSOR POWER SUPPLY CIRCUIT
1. Turn ignition switch OFF.
2. Disconnect left front door control unit connector.

3. Check continuity between door mirror LH harness connector and left front door control unit harness connector.

Door mirror LH		Left front door control unit		Continuity
Connector	Terminal	Connector	Terminal	
D42	23	D14	20	Existed

4. Check continuity between door mirror LH harness connector and ground.

Door mirror LH		Ground	Continuity
Connector	Terminal		
D42	23		Not existed

Is the inspection result normal?

YES >> Replace left front door control unit.
NO >> Repair or replace harness.

3.CHECK DOOR MIRROR SENSOR GROUND CIRCUIT

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

LHD MODELS

Door mirror LH		Left front door control unit		Continuity
Connector	Terminal	Connector	Terminal	
D92	24	D14	18	Existed

RHD MODELS

Left front door control unit		Front door lock assembly (passenger side)		Continuity
Connector	Terminal	Connector	Terminal	
D21	24	D7	18	Existed

Is the inspection result normal?

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

4.CHECK LEFT FRONT DOOR CONTROL UNIT INPUT SIGNAL

1. Connect left front door control unit and connector.
2. Turn ignition switch ON.
3. Check voltage between left front door control unit harness connector and ground.

(+)		(–)	Condition		Voltage (Approx.)
Left front door control unit					
Connector	Terminal				
D14	17	Ground	Door mirror switch LH	Move to stop (LH side)	0.5 V
				Move to stop (RH side)	3 V
	19			Move to stop (upper side)	0.5 V
				Move to stop (lower side)	3 V

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-56, "Intermittent Incident".
NO >> GO TO 5.

5.REPLACE DOOR MIRROR LH

1. Turn ignition switch OFF.
2. Replace door mirror LH. Refer to MIR-72, "DOOR MIRROR ASSEMBLY : 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 MIR-42, "LH : DTC Description".

Is DTC “B1DF3” detected?

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

RH

RH : DTC Description

INFOID:0000000013550855

DTC DETECTION LOGIC

DTC		CONSULT screen items		DTC detecting condition	
		(Trouble diagnosis content)	[Malfunction type]		
B1DF3	01	Door mirror glass sensor	[ELECTRICAL MALFUNCTION]	Diagnosis condition	All time
				Signal (terminal)	Door mirror glass sensor signal
				Threshold	Harness to the door mirror RH has a short circuit
				Diagnosis delay time	—

POSSIBLE CAUSE

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

FAIL-SAFE

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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 MIR-44, "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:0000000013550856

1.CHECK DOOR MIRROR SENSOR POWER SUPPLY

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

(+)		(–)	Voltage (Approx.)
Door mirror RH			
Connector	Terminal		
D92	23	Ground	4 V

Is the inspection result normal?

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

2.CHECK DOOR MIRROR SENSOR POWER SUPPLY CIRCUIT

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

Door mirror RH		Right front door control unit		Continuity
Connector	Terminal	Connector	Terminal	
D92	23	D57	20	Existed

4. Check continuity between door mirror RH harness connector and ground.

Door mirror RH		Ground	Continuity
Connector	Terminal		
D92	23		Not existed

Is the inspection result normal?

YES >> Replace right front door control unit.
NO >> Repair or replace harness.

3.CHECK DOOR MIRROR SENSOR GROUND CIRCUIT

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

Door mirror RH		Right front door control unit		Continuity
Connector	Terminal	Connector	Terminal	
D92	24	D57	18	Existed

Is the inspection result normal?

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

4.CHECK RIGHT FRONT DOOR CONTROL UNIT INPUT SIGNAL

1. Connect right front door control unit and connector.
2. Turn ignition switch ON.
3. Check voltage between right front door control unit harness connector and ground.

(+)		(–)	Condition		Voltage (Approx.)
Right front door control unit					
Connector	Terminal				
D57	17	Ground	Door mirror RH	Move to stop (LH side)	0.5 V
				Move to stop (RH side)	3 V
	19			Move to stop (upper side)	0.5 V
				Move to stop (lower side)	3 V

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-56, "Intermittent Incident".
NO >> GO TO 5.

5.REPLACE DOOR MIRROR RH

1. Turn ignition switch OFF.
2. Replace door mirror RH. Refer to MIR-72, "DOOR MIRROR ASSEMBLY : 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 MIR-44, "RH : DTC Description".

Is DTC “B1DF3” detected?

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

B1DF7 MIRROR SENSOR
LH

LH : DTC Description

INFOID:0000000013550857

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B1DF7	01	Door mirror glass sensor	[ELECTRICAL MALFUNCTION]	Diagnosis condition	All time
				Signal (terminal)	Door mirror glass sensor signal
				Threshold	Harness to the door mirror LH has a short circuit
				Diagnosis delay time	—

POSSIBLE CAUSE
- Short circuit between door mirror LH and left front door control unit
- Door mirror LH
- 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 MIR-47, "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:0000000013550858

1.CHECK DOOR MIRROR SENSOR POWER SUPPLY

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

(+)		(–)	Voltage (Approx.)
Door mirror LH			
Connector	Terminal		
D92	23	Ground	4 V

Is the inspection result normal?

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

2.CHECK DOOR MIRROR SENSOR POWER SUPPLY CIRCUIT

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

3. Check continuity between door mirror LH harness connector and left front door control unit harness connector.

Door mirror LH		Left front door control unit		Continuity
Connector	Terminal	Connector	Terminal	
D42	23	D14	20	Existed

4. Check continuity between door mirror LH harness connector and ground.

Door mirror LH		Ground	Continuity
Connector	Terminal		
D42	23		Not existed

Is the inspection result normal?

YES >> Replace left front door control unit.
NO >> Repair or replace harness.

3.CHECK DOOR MIRROR SENSOR GROUND CIRCUIT

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

Door mirror LH		Left front door control unit		Continuity
Connector	Terminal	Connector	Terminal	
D42	24	D14	18	Existed

Is the inspection result normal?

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

4.CHECK LEFT FRONT DOOR CONTROL UNIT INPUT SIGNAL

1. Connect left front door control unit and connector.
2. Turn ignition switch ON.
3. Check voltage between left front door control unit harness connector and ground.

(+)		(–)	Condition		Voltage (Approx.)
Left front door control unit					
Connector	Terminal				
D14	17	Ground	Door mirror switch LH	Move to stop (LH side)	0.5 V
				Move to stop (RH side)	3 V
	19			Move to stop (upper side)	0.5 V
				Move to stop (lower side)	3 V

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-56, "Intermittent Incident".
NO >> GO TO 5.

5.REPLACE DOOR MIRROR LH

1. Turn ignition switch OFF.
2. Replace door mirror LH. Refer to MIR-72, "DOOR MIRROR ASSEMBLY : 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 MIR-47, "LH : DTC Description".

Is DTC “B1DF7” detected?

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

RH

RH : DTC Description

INFOID:0000000013550859

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B1DF7	01	Door mirror glass sensor	[ELECTRICAL MALFUNCTION]	Diagnosis condition	All time
				Signal (terminal)	Door mirror glass sensor signal
				Threshold	Harness to the door mirror RH has a short circuit
				Diagnosis delay time	—

POSSIBLE CAUSE

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

FAIL-SAFE

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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 MIR-49, "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:0000000013550860

1.CHECK DOOR MIRROR SENSOR POWER SUPPLY

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

(+)		(–)	Voltage (Approx.)
Door mirror RH			
Connector	Terminal		
D92	23	Ground	4 V

Is the inspection result normal?

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

2.CHECK DOOR MIRROR SENSOR POWER SUPPLY CIRCUIT

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

Door mirror RH		Right front door control unit		Continuity
Connector	Terminal	Connector	Terminal	
D92	23	D57	20	Existed

4. Check continuity between door mirror RH harness connector and ground.

Door mirror RH		Ground	Continuity
Connector	Terminal		
D92	23		Not existed

Is the inspection result normal?

YES >> Replace right front door control unit.
NO >> Repair or replace harness.

3.CHECK DOOR MIRROR SENSOR GROUND CIRCUIT

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

Door mirror RH		Right front door control unit		Continuity
Connector	Terminal	Connector	Terminal	
D92	24	D57	18	Existed

Is the inspection result normal?

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

4.CHECK RIGHT FRONT DOOR CONTROL UNIT INPUT SIGNAL

1. Connect right front door control unit and connector.
2. Turn ignition switch ON.
3. Check voltage between right front door control unit harness connector and ground.

(+)		(–)	Condition		Voltage (Approx.)
Right front door control unit					
Connector	Terminal				
D57	17	Ground	Door mirror RH	Move to stop (LH side)	0.5 V
				Move to stop (RH side)	3 V
	19			Move to stop (upper side)	0.5 V
				Move to stop (lower side)	3 V

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-56, "Intermittent Incident".
NO >> GO TO 5.

5.REPLACE DOOR MIRROR RH

1. Turn ignition switch OFF.
2. Replace door mirror RH. Refer to MIR-72, "DOOR MIRROR ASSEMBLY : 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 MIR-49, "RH : DTC Description".

Is DTC “B1DF7” detected?

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

B1DFB POWER FOLD UNIT

LH

LH : DTC Description

INFOID:0000000013550861

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B1DFB	01	Power folding motor output signal	[ELECTRICAL MALFUNCTION]	Diagnosis condition	All time
				Signal (terminal)	Door mirror folding signal
				Threshold	Harness to the door mirror LH circuit has a malfunction
				Diagnosis delay time	—
	07		[MECHANICAL FAILURES]	Diagnosis condition	All time
				Signal (terminal)	Door mirror open/close signal
				Threshold	The malfunction due to damage, deformation or trapped foreign material
				Diagnosis delay time	—
	13		[CIRCUIT OPEN]	Diagnosis condition	All time
				Signal (terminal)	Door mirror folding signal
				Threshold	Harness to the door mirror LH circuit has a malfunction
				Diagnosis delay time	—

POSSIBLE CAUSE (B1DFB-01)

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

POSSIBLE CAUSE (B1DFB-07)

- Damage, deformation or trapped foreign material of door mirror

POSSIBLE CAUSE (B1DFB-13)

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

FAIL-SAFE

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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 MIR-53, "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:0000000013550862

1.CHECK OPEN/CLOSE SWITCH FUNCTION

1. Turn ignition switch ON.
2. Operate door mirror open/close switch.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-56, "Intermittent Incident".
NO >> GO TO 2.

2.CHECK DOOR MIRROR ASSEMBLY

1. Check damage, deformation or trapped foreign material of door mirror.

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace door mirror assembly. Refer to MIR-72, "DOOR MIRROR ASSEMBLY : Removal and Installation".

3.CHECK DOOR MIRROR FOLDING SIGNAL

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

(+)		(–)	Condition		Voltage (Approx.)
Door mirror LH					
Connector	Terminal				
D42	8	Ground	Door mirror	Open	0 V
				Other than above	12 V
	9			Close	0 V
				Other than above	12 V

Is the inspection result normal?

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

4.CHECK DOOR MIRROR FOLDING SIGNAL CIRCUIT

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

Door mirror LH		Left front door control unit		Continuity
Connector	Terminal	Connector	Terminal	
D42	8	D14	14	Existed
	9		15	

4. Check continuity between door mirror LH harness connector and ground.

Door mirror LH		Ground	Continuity
Connector	Terminal		
D42	8		Not existed
	9		

Is the inspection result normal?

YES >> Replace left front door control unit.
NO >> Repair or replace harness.

5.REPLACE DOOR MIRROR LH

1. Turn ignition switch OFF.
2. Replace door mirror LH. Refer to MIR-72, "DOOR MIRROR ASSEMBLY : 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 MIR-52, "LH : DTC Description".

Is DTC “B1DFB” detected?

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

RH

RH : DTC Description

INFOID:0000000013550863

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B1DFB	01	Power folding motor output signal	[ELECTRICAL MALFUNCTION]	Diagnosis condition	All time
				Signal (terminal)	Door mirror folding signal
				Threshold	Harness to the door mirror RH circuit has a malfunction
				Diagnosis delay time	—
	07		[MECHANICAL FAILURES]	Diagnosis condition	All time
				Signal (terminal)	Door mirror open/close signal
				Threshold	The malfunction due to damage, deformation or trapped foreign material
				Diagnosis delay time	—
	13		[CIRCUIT OPEN]	Diagnosis condition	All time
				Signal (terminal)	Door mirror folding signal
				Threshold	Harness to the door mirror RH circuit has a malfunction
				Diagnosis delay time	—

POSSIBLE CAUSE (B1DFB-01)

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

POSSIBLE CAUSE (B1DFB-07)

- Damage, deformation or trapped foreign material of door mirror

POSSIBLE CAUSE (B1DFB-13)

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

FAIL-SAFE

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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 MIR-55, "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:0000000013550864

1.CHECK OPEN/CLOSE SWITCH FUNCTION

1. Turn ignition switch ON.
2. Operate door mirror open/close switch.

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-56, "Intermittent Incident".
NO >> GO TO 2.

2.CHECK DOOR MIRROR ASSEMBLY

1. Check damage, deformation or trapped foreign material of door mirror.

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace door mirror assembly. Refer to MIR-72, "DOOR MIRROR ASSEMBLY : Removal and Installation".

3.CHECK DOOR MIRROR FOLDING SIGNAL

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

(+)		(–)	Condition		Voltage (Approx.)
Door mirror RH					
Connector	Terminal				
D92	8	Ground	Door mirror	Open	0 V
				Other than above	12 V
	9			Close	0 V
				Other than above	12 V

Is the inspection result normal?

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

4.CHECK DOOR MIRROR FOLDING SIGNAL CIRCUIT

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

Door mirror RH		Right front door control unit		Continuity
Connector	Terminal	Connector	Terminal	
D92	8	D57	14	Existed
	9		15	

4. Check continuity between door mirror RH harness connector and ground.

Door mirror RH		Ground	Continuity
Connector	Terminal		
D92	8		Not existed
	9		

Is the inspection result normal?

YES >> Replace right front door control unit.
NO >> Repair or replace harness.

5.REPLACE DOOR MIRROR RH

1. Turn ignition switch OFF.
2. Replace door mirror RH. Refer to MIR-72, "DOOR MIRROR ASSEMBLY : 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 MIR-54, "RH : DTC Description".

Is DTC “B1DFB” detected?

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

B1E1B MIRROR ACTUATOR
LH

LH : DTC Description

INFOID:0000000013550865

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B1E1B	01	Door mirror glass motor output signal	[ELECTRICAL MALFUNCTION]	Diagnosis condition	All time
				Signal (terminal)	Door mirror glass motor signal
				Threshold	Harness to the door mirror LH circuit has a malfunction
				Diagnosis delay time	—
	15		[CIRC SHORT TO BATTERY OR OPEN]	Diagnosis condition	All time
				Signal (terminal)	Door mirror glass motor signal
				Threshold	Harness to the door mirror LH has a open circuit or shorted to battery
				Diagnosis delay time	—

POSSIBLE CAUSE (B1E1B-01)
- Short circuit between door mirror LH and left front door control unit
- Door mirror LH
- Left front door control unit

POSSIBLE CAUSE (B1E1B-15)
- Disconnection between door mirror LH and left front door control unit
- Door mirror LH
- 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 MIR-57, "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:0000000013550866

1.CHECK DOOR MIRROR ADJUSTMENT SIGNAL

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

(+)		(–)	Condition		Voltage (Approx.)
Door mirror LH					
Connector	Terminal				
D42	12	Ground	Door mirror switch	Operated (LH or upper side)	0 V
				Other than above	12 V
	10			Operated (LH or lower side)	0 V
				Other than above	12 V
	11			Operated (RH or lower side)	0 V
				Other than above	12 V

Is the inspection result normal?

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

2.CHECK DOOR MIRROR ADJUSTMENT SIGNAL CIRCUIT

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

Door mirror LH		Left front door control unit		Continuity
Connector	Terminal	Connector	Terminal	
D42	10	D11	7	Existed
	11		8	
	12		6	

4. Check voltage between door mirror LH harness connector and ground.

(+)		(–)	Voltage (Approx.)
Door mirror LH			
Connector	Terminal		
D42	10	Ground	0 V
	11		
	12		

Is the inspection result normal?

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

3.REPLACE DOOR MIRROR LH

1. Turn ignition switch OFF.
2. Replace door mirror LH. Refer to MIR-72, "DOOR MIRROR ASSEMBLY : 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 MIR-57, "LH : DTC Description".

Is DTC “B1E1B” detected?

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

RH

RH : DTC Description

INFOID:0000000013550867

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B1E1B	01	Door mirror glass motor output signal	[ELECTRICAL MALFUNCTION]	Diagnosis condition	All time
				Signal (terminal)	Door mirror glass motor signal
				Threshold	Harness to the door mirror RH circuit has a malfunction
				Diagnosis delay time	—
	15		[CIRC SHORT TO BATTERY OR OPEN]	Diagnosis condition	All time
				Signal (terminal)	Door mirror glass motor signal
				Threshold	Harness to the door mirror RH has a open circuit or shorted to battery
				Diagnosis delay time	—

POSSIBLE CAUSE (B1E1B-01)

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

POSSIBLE CAUSE (B1E1B-15)

- Disconnection between door mirror RH and right front door control unit
- Door mirror RH
- 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 MIR-59, "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:0000000013550868

1.CHECK DOOR MIRROR ADJUSTMENT SIGNAL

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

(+)		(–)	Condition	Voltage (Approx.)
Door mirror RH				
Connector	Terminal			

D92	12	Ground	Door mirror switch	Operated (RH or lower side)	0 V
				Other than above	12 V
	10			Operated (LH or upper side)	0 V
				Other than above	12 V
	11			Operated (LH or lower side)	0 V
				Other than above	12 V

Is the inspection result normal?

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

2.CHECK DOOR MIRROR ADJUSTMENT SIGNAL CIRCUIT

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

Door mirror RH		Right front door control unit		Continuity
Connector	Terminal	Connector	Terminal	
D92	10	D54	7	Existed
	11		8	
	12		6	

4. Check voltage between door mirror RH harness connector and ground.

(+)		(–)	Voltage (Approx.)
Door mirror RH			
Connector	Terminal		
D92	10	Ground	0 V
	11		
	12		

Is the inspection result normal?

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

3.REPLACE DOOR MIRROR RH

1. Turn ignition switch OFF.
2. Replace door mirror RH. Refer to MIR-72, "DOOR MIRROR ASSEMBLY : 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 MIR-59, "RH : DTC Description".

Is DTC “B1E1B” detected?

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

B1E1F CHANGEOVER SWITCH

DTC Description

INFOID:0000000013550869

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B1E1F	2A	Door mirror remote control switch	[SIGNAL STUCK IN RANGE]	Diagnosis condition	All time
				Signal (terminal)	Door mirror remote control switch signal
				Threshold	Door mirror remote control switch has a malfunction. There is no signal change (ON stuck).
				Diagnosis delay time	25 sec.

POSSIBLE CAUSE

- Harness or connectors (door mirror remote control switch)
- Door mirror remote control switch (button is stuck or internal defect)
- Left front control unit

FAIL-SAFE

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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?

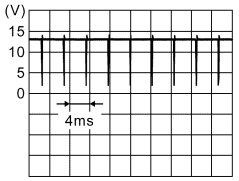
YES >> Refer to MIR-61, "Diagnosis Procedure".
NO-1 >> To check malfunction symptom before repair: Refer to GI-56, "Intermittent Incident".
NO-2 >> Confirmation after repair: INSPECTION END

Diagnosis Procedure

INFOID:0000000013550870

1.CHECK DOOR MIRROR REMOTE CONTROL SWITCH INPUT SIGNAL

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

(+) Power window main switch (door mirror remote control switch) Connector	(+) Power window main switch (door mirror remote control switch) Terminal	(–)	Condition		Voltage (Approx.)
D38	1	Ground	Door mirror remote control switch	Operating	12 V
				Other than above	

JMKIB5942GB

Is the inspection result normal?

YES >> Replace left front door control unit. Refer to DLK-286, "Removal and Installation".
NO >> GO TO 2.

2. CHECK DOOR MIRROR REMOTE CONSTOL SWITCH SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect power window main switch (door mirror remote control switch) and left front door control unit connector.
3. Turn ignition switch ON.
4. 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

Is the inspection result normal?

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

3. REPLACE POWER WINDOW MAIN SWITCH

1. Turn ignition switch OFF.
2. Replace power window main switch (door mirror remote control 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 MIR-61, "DTC Description".

Is DTC “B1E1F-2A” detected?

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

B2267 MIRROR DIMMING CIRCUIT

DTC Description

INFOID:0000000013550873

DTC DETECTION LOGIC

DTC		CONSULT screen items (Trouble diagnosis content)	CONSULT screen items [Malfunction type]	DTC detecting condition	
B2267	08	Inside mirror	[BUS SIGNAL/ MESSAGE FAILURES]	Diagnosis condition	All time
				Signal (terminal)	Inside rear view mirror dimming signal
				Threshold	Inside rear view mirror has a malfunction. Harness to the inside rear view mirror circuit has a malfunction
				Diagnosis delay time	2 sec.
	96		[CMPNENT INTERNAL MLFNCTN]	Diagnosis condition	All time
				Signal (terminal)	Inside rear view mirror dimming signal
				Threshold	Internal malfunction of inside rear view mirror
				Diagnosis delay time	2 sec.

POSSIBLE CAUSE (B2267−08)

- Internal malfunction of inside rear view mirror
- Disconnection between inside rear view mirror and overhead control panel control unit

POSSIBLE CAUSE (B2267−96)

- Internal malfunction of inside rear view mirror

FAIL-SAFE

—

DTC CONFIRMATION PROCEDURE

1.CHECK SELF-DIAG RESULT

With CONSULT

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

Is malfunctioning part detected?

YES >> Refer to MIR-63, "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:0000000013550874

1.CHECK INSIDE REAR VEW 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 VEW 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 VEW 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 VEW 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 VEW 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 “BCM” using CONSULT.
4. Erase DTC, and then repeat “DTC CONFIRMATION PROCEDURE”. Refer to MIR-63, "DTC Description".

Is DTC “B1E1B” detected?

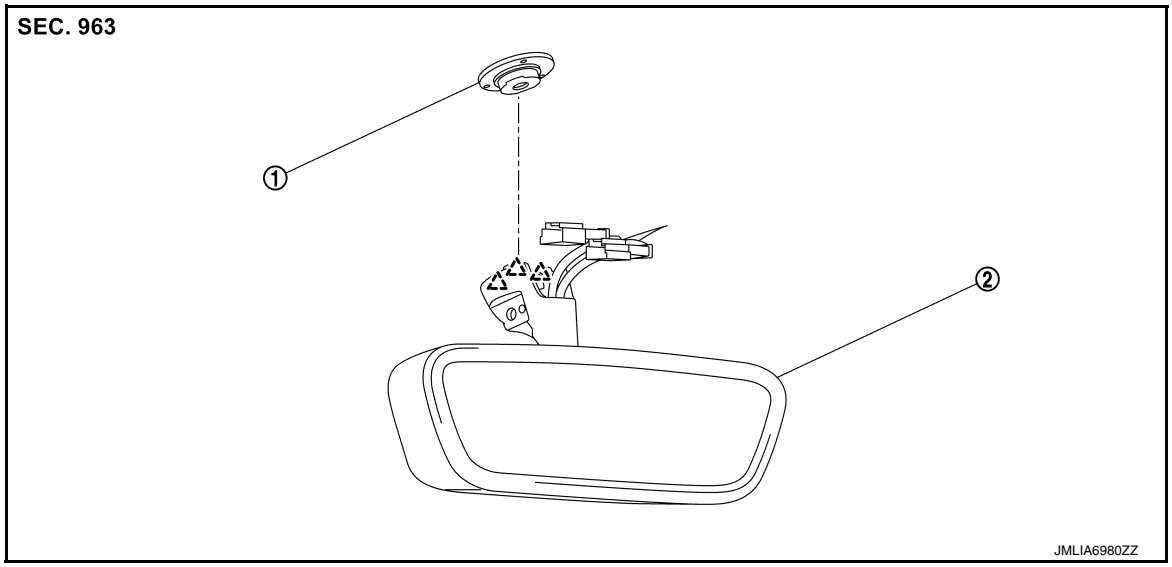
YES >> Replace overhead control panel control unit. Refer to INL-114, "Removal and Installation".
NO >> INSPECTION END.

REMOVAL AND INSTALLATION

INSIDE MIRROR

Exploded View

INFOID:0000000013550875



① Inside mirror base ② Inside mirror assembly

△ : Pawl

Removal and Installation

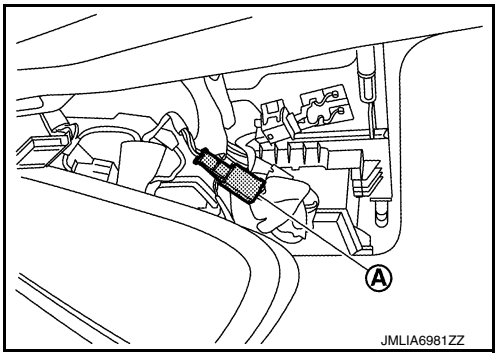
INFOID:0000000013550876

REMOVAL

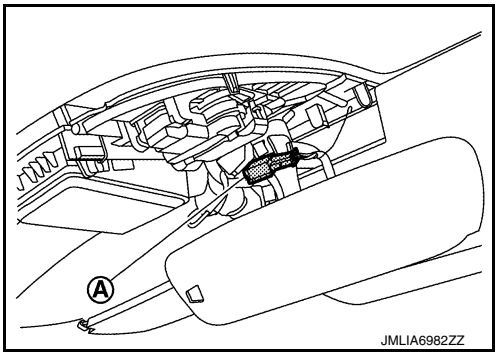
CAUTION:

- **Never damage windshield glass.**

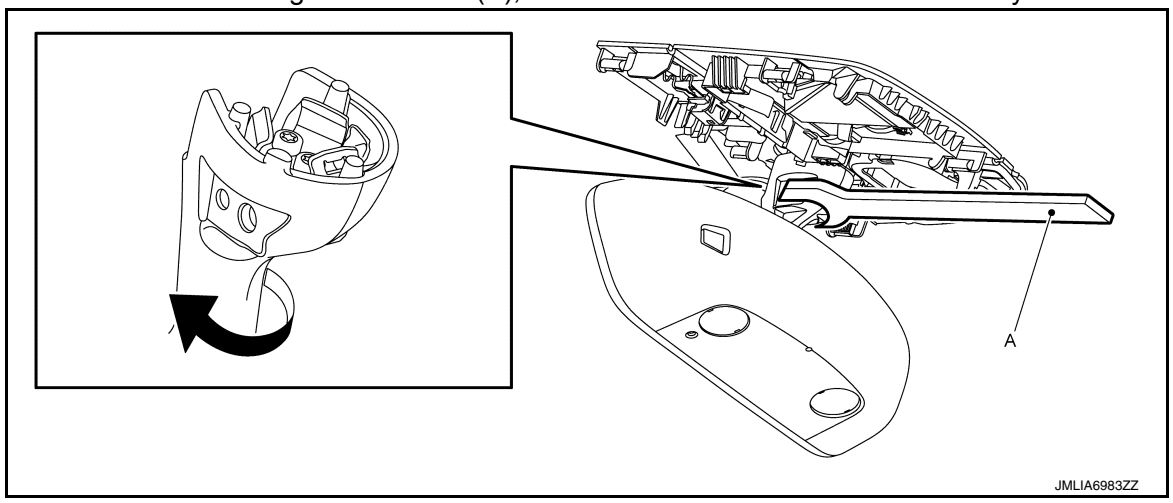
1. Remove light & rain sensor cover. Refer to WW-81, "Removal and Installation".
2. Disconnect harness connector Ⓐ. (With auto anti-dazzling inside mirror)



3. Disconnect harness connector Ⓐ. (With auto anti-dazzling inside mirror)



4. Rotate inside mirror a using remover tool (A), and then remove inside mirror assembly.

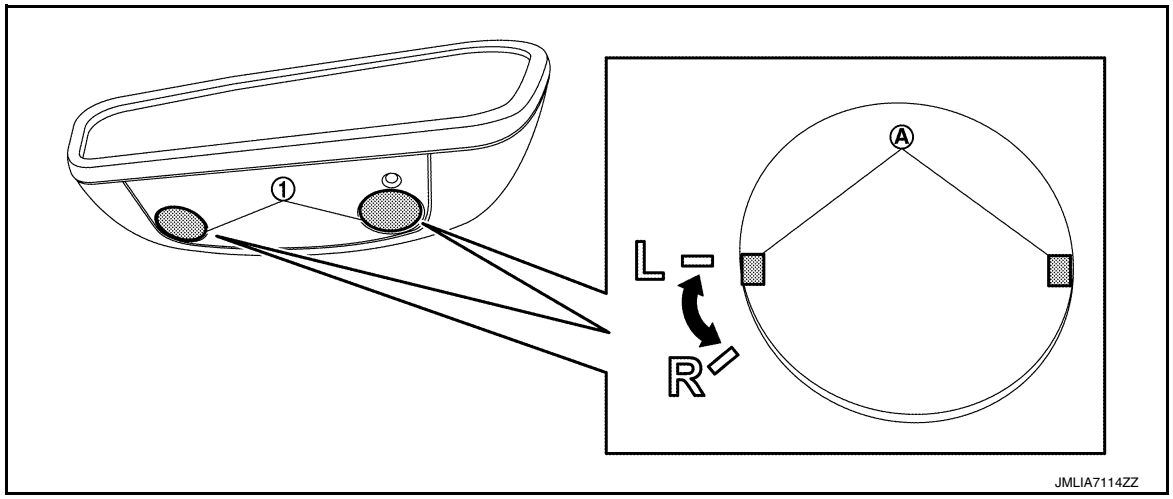


INSTALLATION

Note the following item, and then install in the reverse order of removal.

NOTE:

After replacing the inside mirror assembly, insert the tool into the notches Ⓐ of the both lens ① to align it to the following position.



L: LHD models

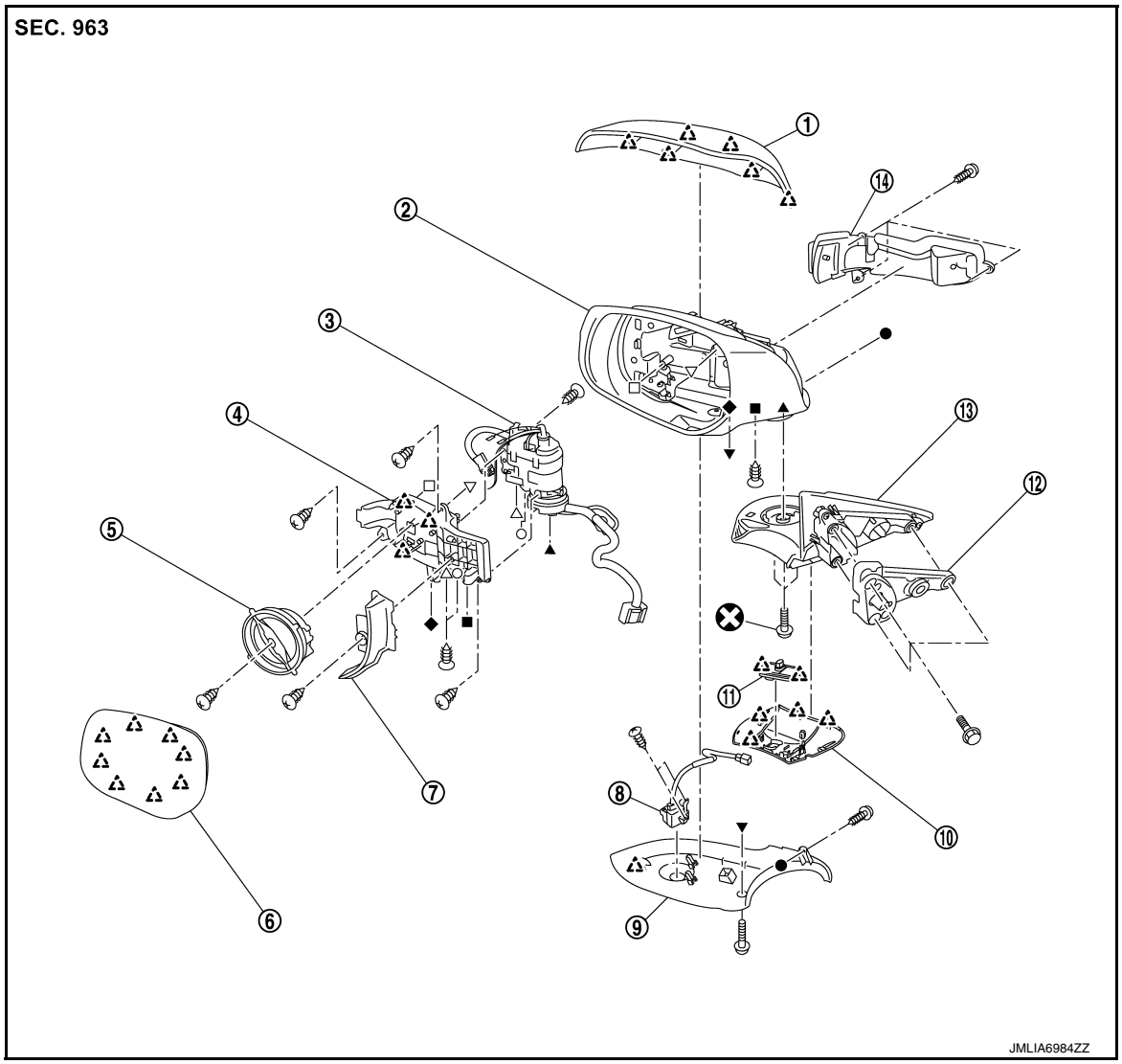
R: Not applicable

DOOR MIRROR

Exploded View

INFOID:0000000013550877

WITH ELECTRIC FOLDING



① Door mirror cover	② Door mirror housing	③ Power folding unit
④ Bracket	⑤ Actuator	⑥ Glass mirror
⑦ Inner cover	⑧ Side camera*	⑨ Door mirror finisher
⑩ Door mirror base cover	⑪ Outside mirror lamp	⑫ Door mirror gasket
⑬ Door mirror base	⑭ Side turn signal lamp	

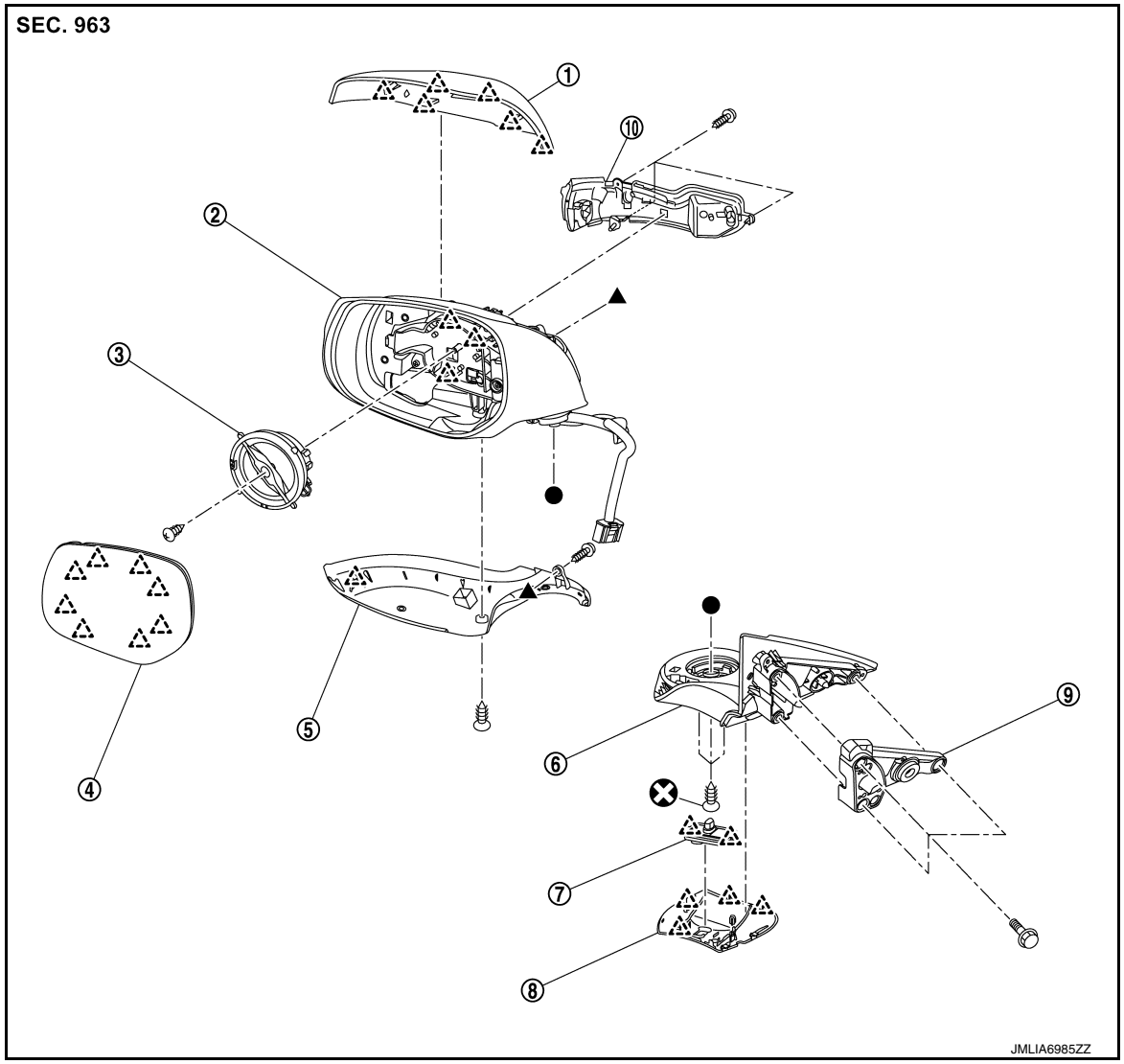
: Pawl

: Always replace after every disassembly.

●, ▲, ■, ▼, ◆, ○, △, □, ▽: Indicates that the part is connected at points with same symbol in actual vehicle.

*: With around view monitor system

WITHOUT ELECTRIC FOLDING



① Door mirror cover
② Door mirror housing
③ Actuator
④ Glass mirror
⑤ Door mirror finisher
⑥ Door mirror base
⑦ Outside mirror lamp
⑧ Door mirror base cover
⑨ Door mirror gasket
⑩ Side turn signal lamp

△ : Pawl

⊗ : Always replace after every disassembly.

●, ▲ : Indicates that the part is connected at points with same symbol in actual vehicle.

GLASS MIRROR

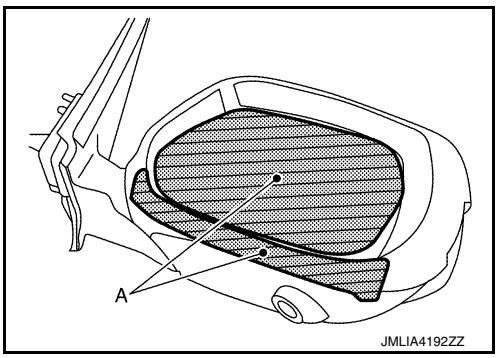
GLASS MIRROR : Removal and Installation

INFOID:0000000013550878

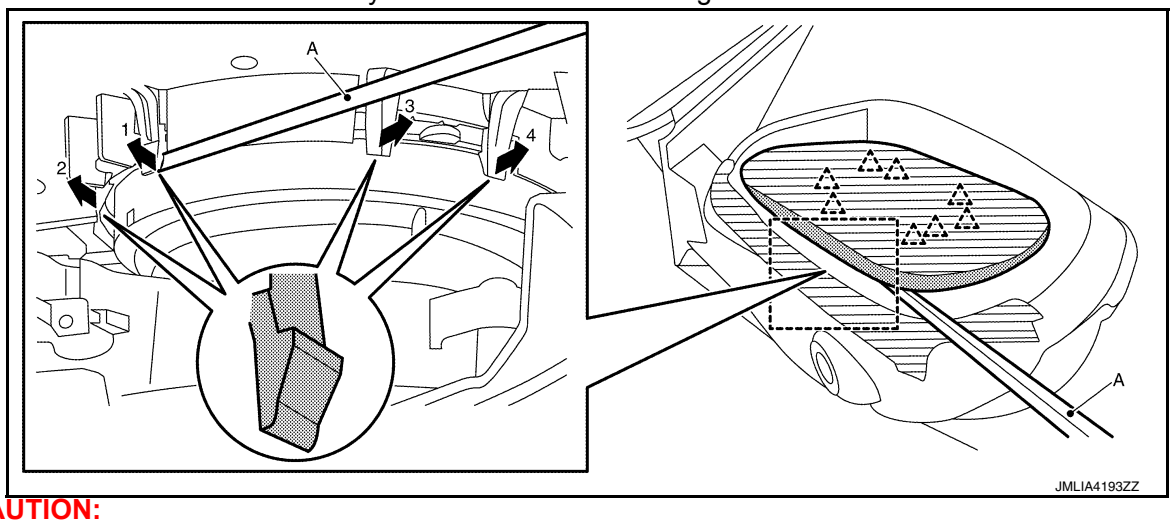
REMOVAL

1. Remove door mirror asembly. Refer to MIR-72, "DOOR MIRROR ASSEMBLY : Removal and Installation"
2. Place glass mirror upward.

3. Apply protective tapes (A) on surface of glass mirror and door mirror housing to protect it from damage.



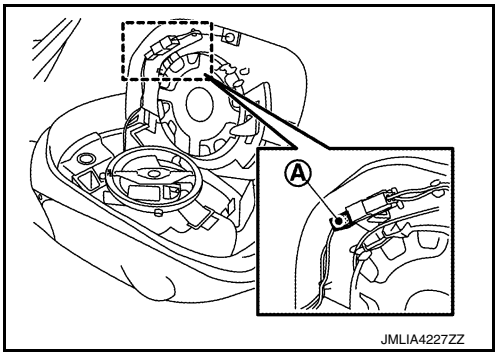
4. Insert remover tool (A) into the recess at lower side between glass mirror and actuator. And then disengage the door mirror fixing pawls by pushing up while rotating (twisting) the remover tool according to numerical order 1→4 indicated by arrows as shown in the figure.



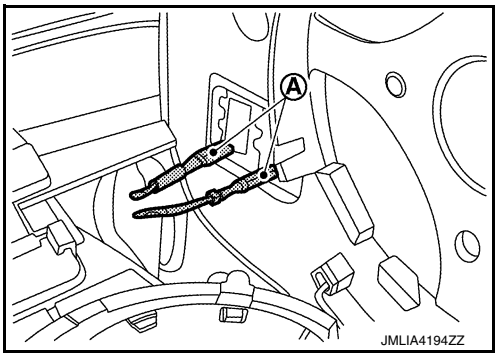
CAUTION:
Use a remover tool wrapped in tape.

△ : Pawl

5. Disconnect harness connector Ⓐ. (With auto anti-dazzling)



6. Disconnect heater mirror terminals Ⓐ, and then remove glass mirror.
CAUTION:
Make a mark (short note, photo, etc.) of terminals layout, before disassembly.



INSTALLATION

Note the following item, and then install in the reverse order of removal.

CAUTION:

After installation, visually check that fixing pawls are securely engaged.

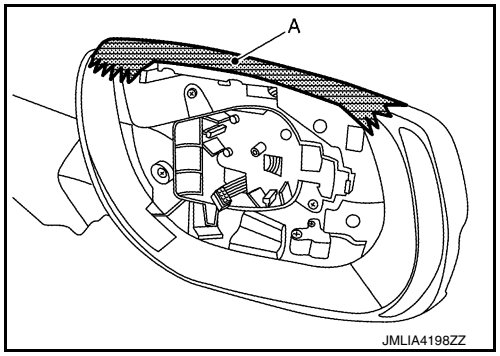
DOOR MIRROR COVER

DOOR MIRROR COVER : Removal and Installation

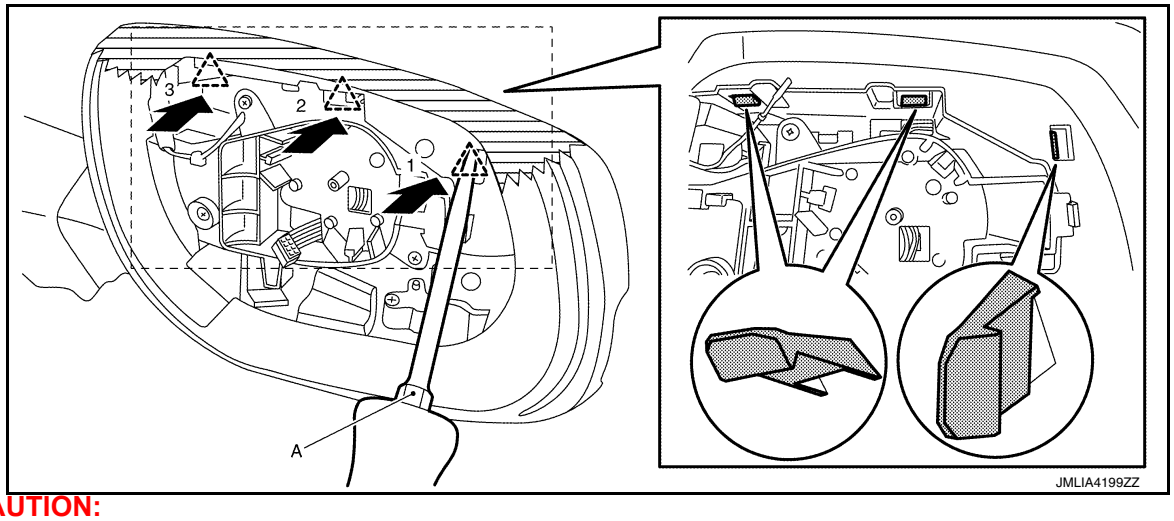
INFOID:0000000013550879

REMOVAL

1. Remove glass mirror. Refer to MIR-69, "GLASS MIRROR : Removal and Installation".
2. Remove actuator. Refer to MIR-72, "DOOR MIRROR ASSEMBLY : Disassembly and Assembly".
3. Apply protective tape (A) on door mirror housing to protect it from damage.



4. Disengage door mirror cover fixing pawls using a remover tool (A) according to numerical order 1→3 indicated by arrows as shown in the figure, and then make a space between door mirror housing and door mirror cover.



CAUTION:

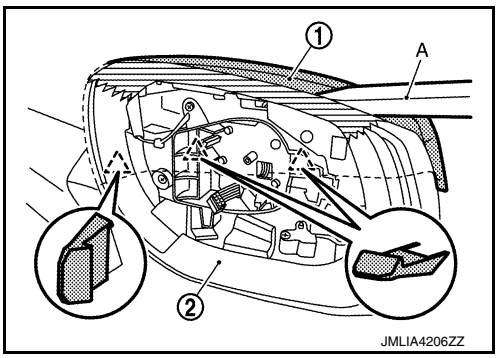
Use a remover tool wrapped in tape.

: Pawl

5. Disengage door mirror cover ① fixing pawls using a remover tool (A), and then remove door mirror cover from door mirror housing ②.

CAUTION:
When removing, always use a remover tool that is made of plastic to prevent damage to the parts.

△ : Pawl



INSTALLATION

Note the following item, and then install in the reverse order of removal.

CAUTION:
After installation, visually check that fixing pawls are securely engaged.

DOOR MIRROR ASSEMBLY

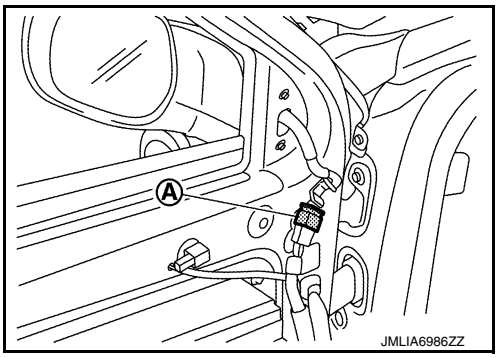
DOOR MIRROR ASSEMBLY : Removal and Installation

INFOID:0000000013550880

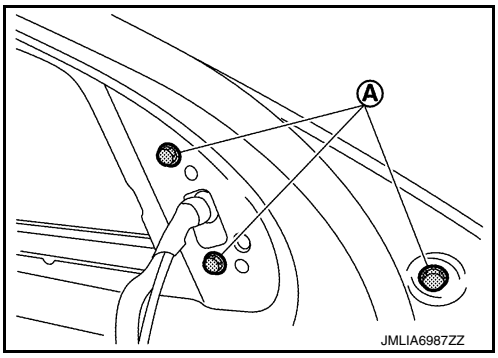
REMOVAL

CAUTION:
Never damage the door mirror assembly and body panel.

1. Remove front door corner cover. Refer to INT-14, "Removal and Installation".
2. Disconnect harness connector Ⓐ.



3. Remove door mirror mounting bolts Ⓐ, and then remove door mirror.



INSTALLATION

Note the following item, install in the reverse order of removal.

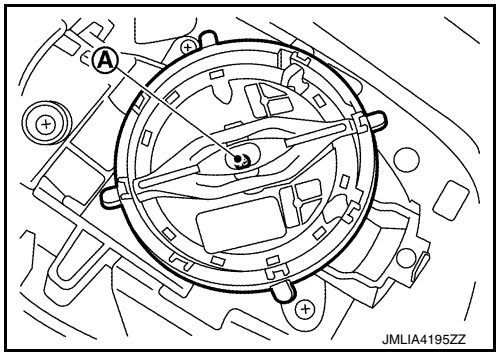
CAUTION:
Perform side camera calibration. Refer to AV-302, "Description".

DOOR MIRROR ASSEMBLY : Disassembly and Assembly

INFOID:0000000013550881

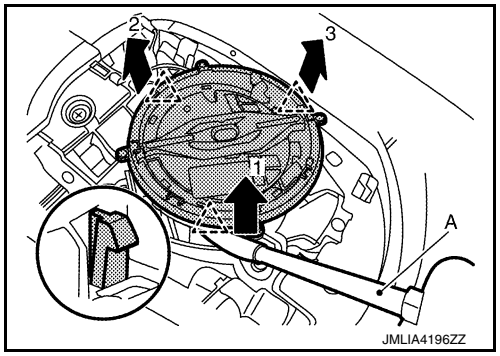
DISASSEMBLY

1. Remove door mirror assembly. Refer to MIR-72, "DOOR MIRROR ASSEMBLY : Removal and Installation".
2. Remove glass mirror. Refer to MIR-69, "GLASS MIRROR : Removal and Installation".
3. Remove door mirror actuator fixing screw Ⓐ.

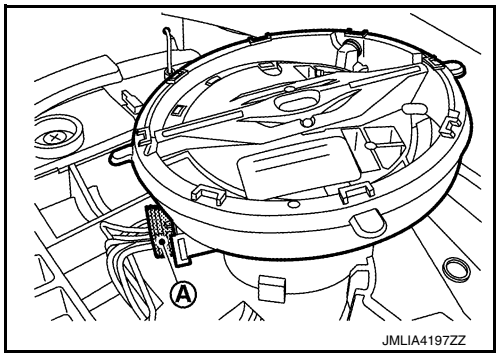


4. Disengage door mirror actuator fixing pawls using a remover tool (A) according to numerical order 1→3 indicated by arrows as shown in the figure.

: Pawl



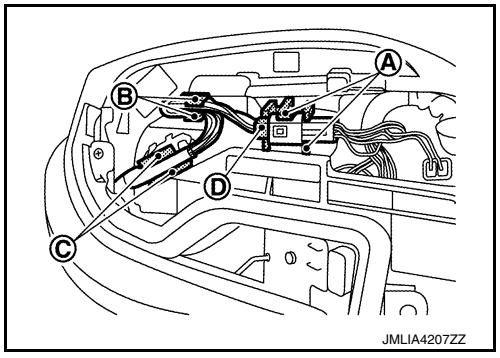
5. Disconnect door mirror actuator harness connector Ⓐ, and then remove door mirror actuator.



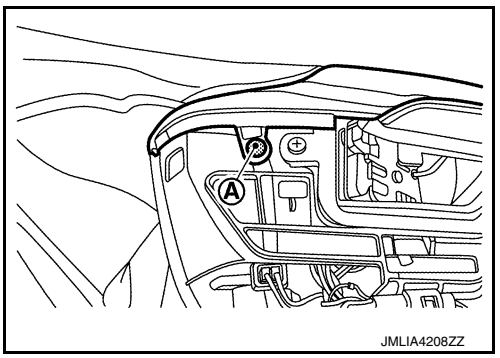
6. Remove door mirror cover. Refer to MIR-71, "DOOR MIRROR COVER : Removal and Installation".
7. Remove harness connector and each harness from clamp portion Ⓐ, Ⓑ and Ⓒ, and then disconnect harness connector Ⓓ. (With side view camera)

CAUTION:

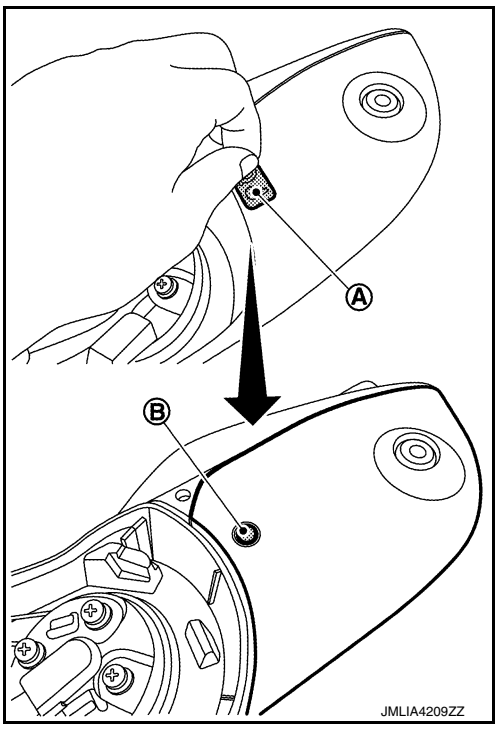
Make a mark (short note, photo, etc.) of harness layout, before disassembly.



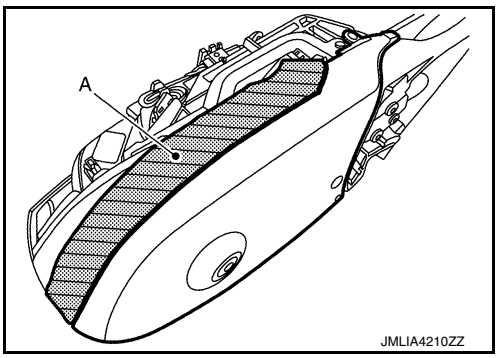
8. Remove door mirror finisher fixing screw Ⓐ.



9. Peel off seal Ⓐ, and then remove door mirror finisher fixing screw Ⓑ.

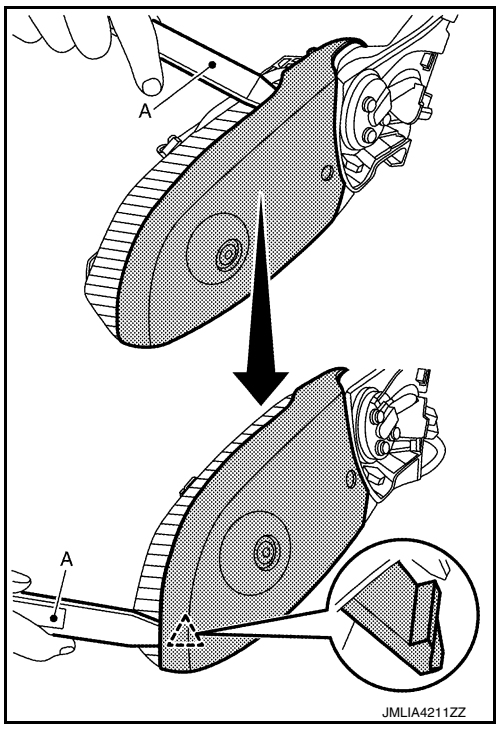


10. Apply protective tape (A) on side turn signal lamp to protect it from damage.

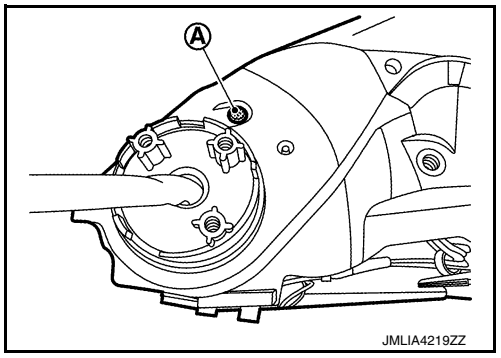


11. Insert a remover tool (A) between side turn signal lamp and door mirror finisher, and then disengage side turn signal lamp, door mirror finisher and pawl while sliding remover tool.
CAUTION:
When removing, always use a remover tool that is made of plastic to prevent damage to the parts.

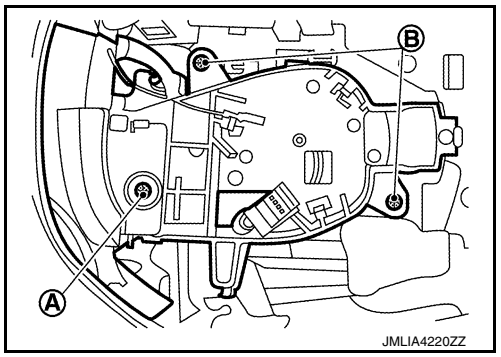
△ : Pawl



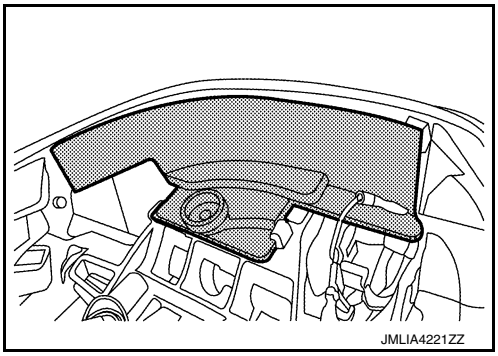
12. Remove door mirror finisher from door mirror housing.
13. Remove side camera. Refer to AV-349, "Removal and Installation" (With around view monitor system).
14. Remove side turn signal lamp. Refer to EXL-295, "Removal and Installation" (LED HEADLAMP) or EXL-519, "Removal and Installation" (HALOGEN HEADLAMP).
15. Remove door mirror base. Refer to MIR-77, "DOOR MIRROR BASE : Removal and Installation".
16. Remove power folding unit fixing screw Ⓐ. (With electric folding)



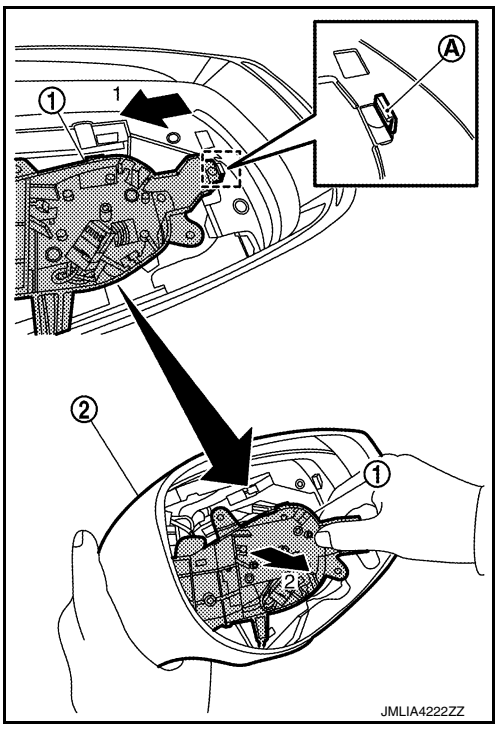
17. Remove inner cover fixing screw Ⓐ and bracket fixing screws Ⓑ. (With electric folding)



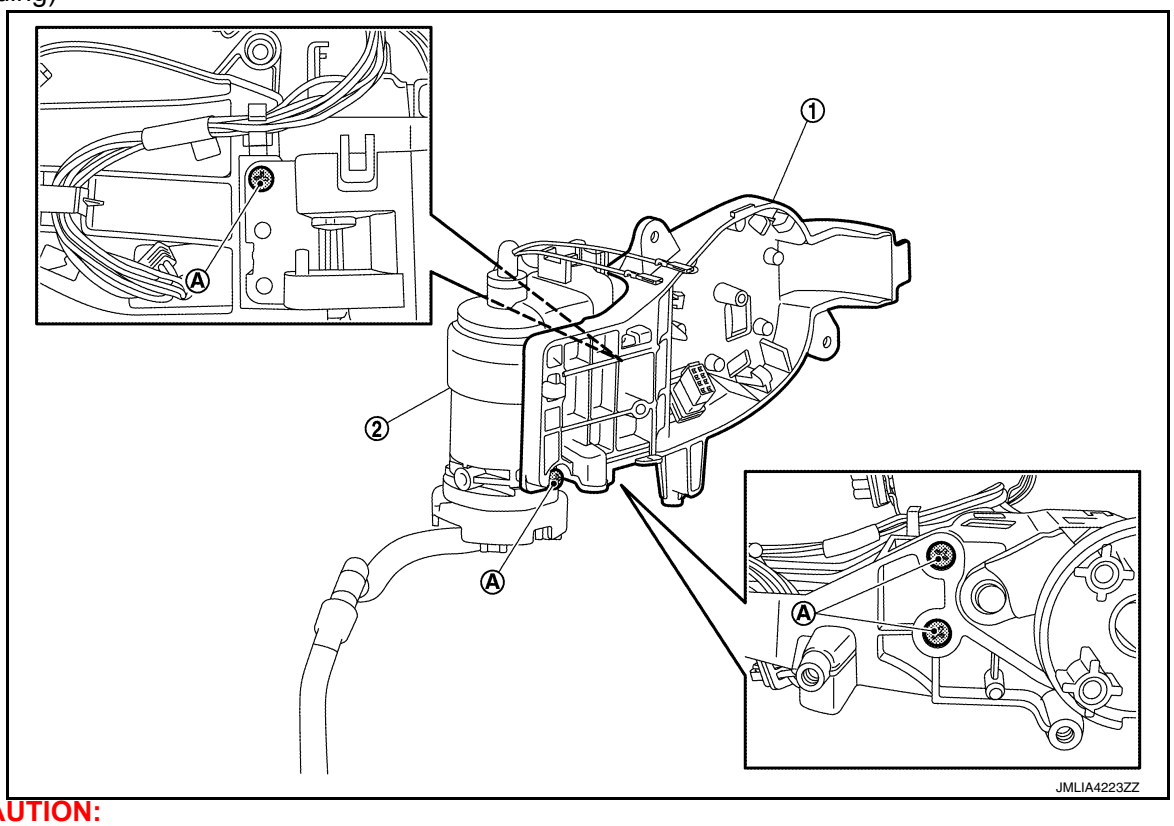
18. Remove inner cover.



19. Disengage bracket ① fixing pawl Ⓐ according to numerical order 1→2 indicated by arrows as shown in the figure, and then remove bracket and power folding unit as a set from door mirror housing ②. (With electric folding)



20. Remove bracket ① fixing screws Ⓐ, and then separation bracket and power folding unit ②. (With electric folding)



CAUTION:
Make a mark (short note, photo, etc.) of harness layout, before disassembly.

ASSEMBLY

Note the following items, and then assemble in the reverse order of disassembly.

CAUTION:
- **When assembly power folding unit, check that harness layout is securely to prevent the damage.**
- **Never connect terminals and harness connectors incorrect position. A malfunction may occur if connect terminals and harness connectors incorrect position.**
- **Perform side camera calibration. Refer to AV-302, "Description". (With around view monitor system)**

DOOR MIRROR BASE

DOOR MIRROR BASE : Removal and Installation

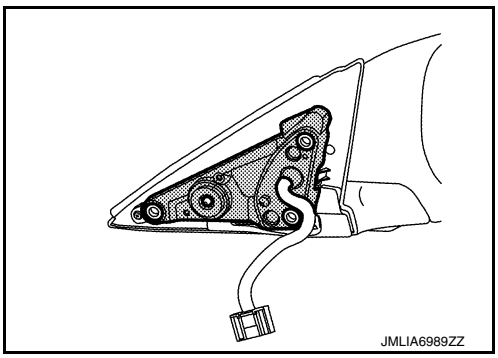
INFOID:0000000013550882

REMOVAL

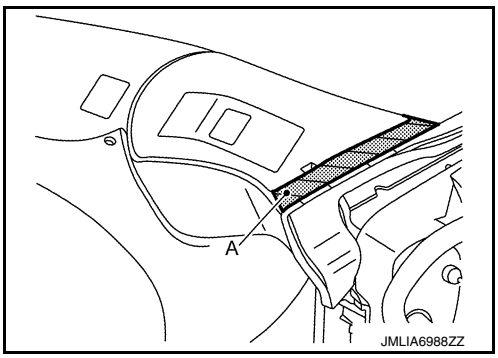
CAUTION:
Never damage the door mirror parts.

1. Remove door mirror assembly. Refer to MIR-72, "DOOR MIRROR ASSEMBLY : Removal and Installation".
2. Disconnect all terminals from harness connector.
   CAUTION:
   Make a mark (short note, photo, etc.) of terminals layout, before disassembly.

3. Remove door mirror gasket.

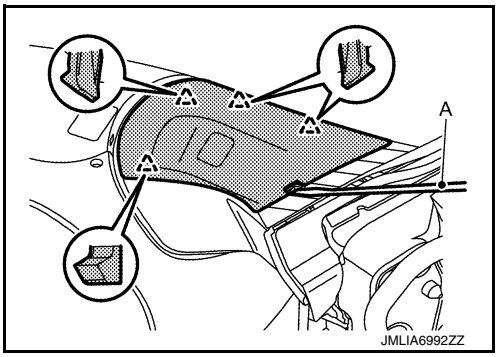


4. Apply protective tape (A) on door mirror housing to protect it from damage.

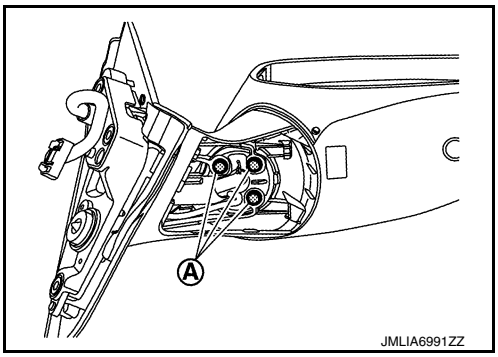


5. Disengage door mirror base cover fixing pawls using a remover tool (A), and then remove door mirror base cover.

: Pawl



6. Remove door mirror base fixing screws Ⓐ, and then remove door mirror base.



INSTALLATION

Note the following items, and then install in the reverse order of removal.

CAUTION:

- **When assembly power folding unit, check that harness layout is securely to prevent the damage.**
- **Never connect terminals incorrect position. A malfunction may occur if connect terminals incorrect position.**
- **Replace door mirror base fixing screws with a new part after removal. Never reuse door mirror base fixing screws.**
- **Perform side camera image calibration. Refer to AV-302, "Description". (With around view monitor system)**

DOOR MIRROR REMOTE CONTROL SWITCH

Removal and Installation

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For removal and installation procedures, refer to PWC-89, "Removal and Installation".