

SECTION

RF

ROOF

A

B

C

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PRECAUTIONS

PRECAUTIONS

PFP:00001

Precautions for Supplemental Restraint System (SRS) “AIR BAG” and “SEAT BELT PRE-TENSIONER”

EIS0044P

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

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SRS section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harness connectors.

Precautions

EIS0044Q

- When removing or disassembling any part, be careful not to damage or deform it. Protect parts, which may get in the way with cloth.
- When removing parts with a screwdriver or other tool, protect parts by wrapping them with vinyl or tape.
- Keep removed parts protected with cloth.
- If a clip is deformed or damaged, replace it.
- If an un reusable part is removed, replace it with a new one.
- Tighten bolts and nuts firmly to the specified torque.
- After re-assembly has been completed, make sure each part functions correctly.
- Remove stains in the following way.

Water-soluble stains:

Dip a soft cloth in warm water, and then squeeze it tightly. After wiping the stain, wipe with a soft dry cloth.

Oil stain:

Dissolve a synthetic detergent in warm water (density of 2 to 3% or less), dip the cloth, then clean off the stain with the cloth. Next, dip the cloth in fresh water and squeeze it tightly. Then clean off the detergent completely. Then wipe the area with a soft dry cloth.

- Do not use any organic solvent, such as thinner or benzene.
- If sunroof motor operation sound is noted but sunroof does not operate, replace motor assembly with glass lid fully closed.
- If sunroof (glass lid and motor) does not operate when using sunroof switch then remove the front cover of the luggage compartment, and rotate motor gear box drive shaft with the emergency handle (in the tool box).

SUNROOF

PFP:91210

System Description

EIS000MK

- Operating sunroof switch allows glass lid open/close, and tilt UP-DOWN.
- When sunroof switch is pressed firmly toward the OPEN side, glass lid automatically opens and automatic operation is stopped at a point 180 mm to the fully open position.

NOTE:

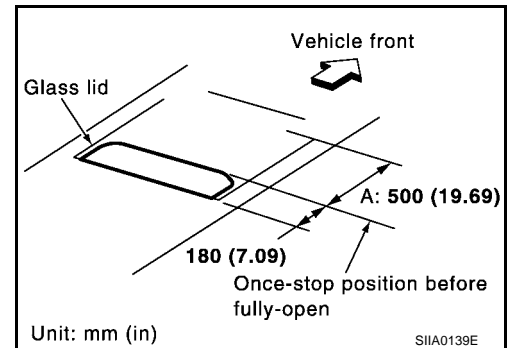
After the emergency handle is used to rotate the motor drive shaft, sunroof switch operation may not correspond to actual glass lid movement. When this happens, conduct resuming operation to restore normal operation.

RESUMING OPERATION

- If actual glass lid operation does not correspond to expected operation, operate sunroof switch to slide glass lid toward area A in the figure. This should result in resumption of normal operation.

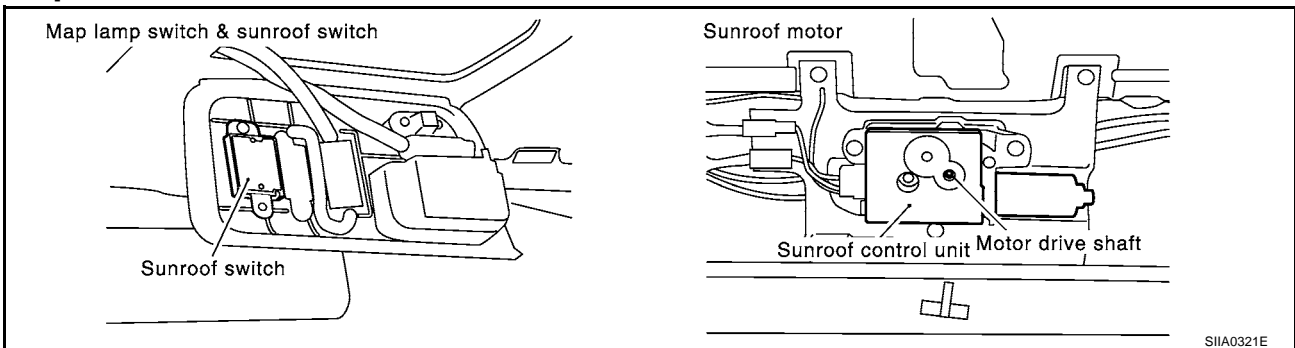
CAUTION:

Before normal operation is resumed, expected sunroof switch operation and actual glass lid movement may not correspond. Make sure that neither head nor hands protrude from sunroof and conduct resuming operation.



Component Parts Location

EIS000ML

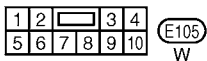
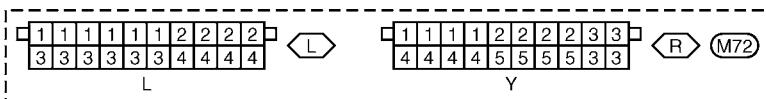
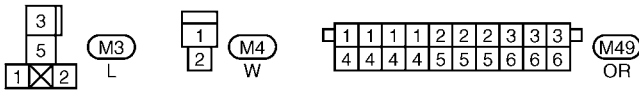
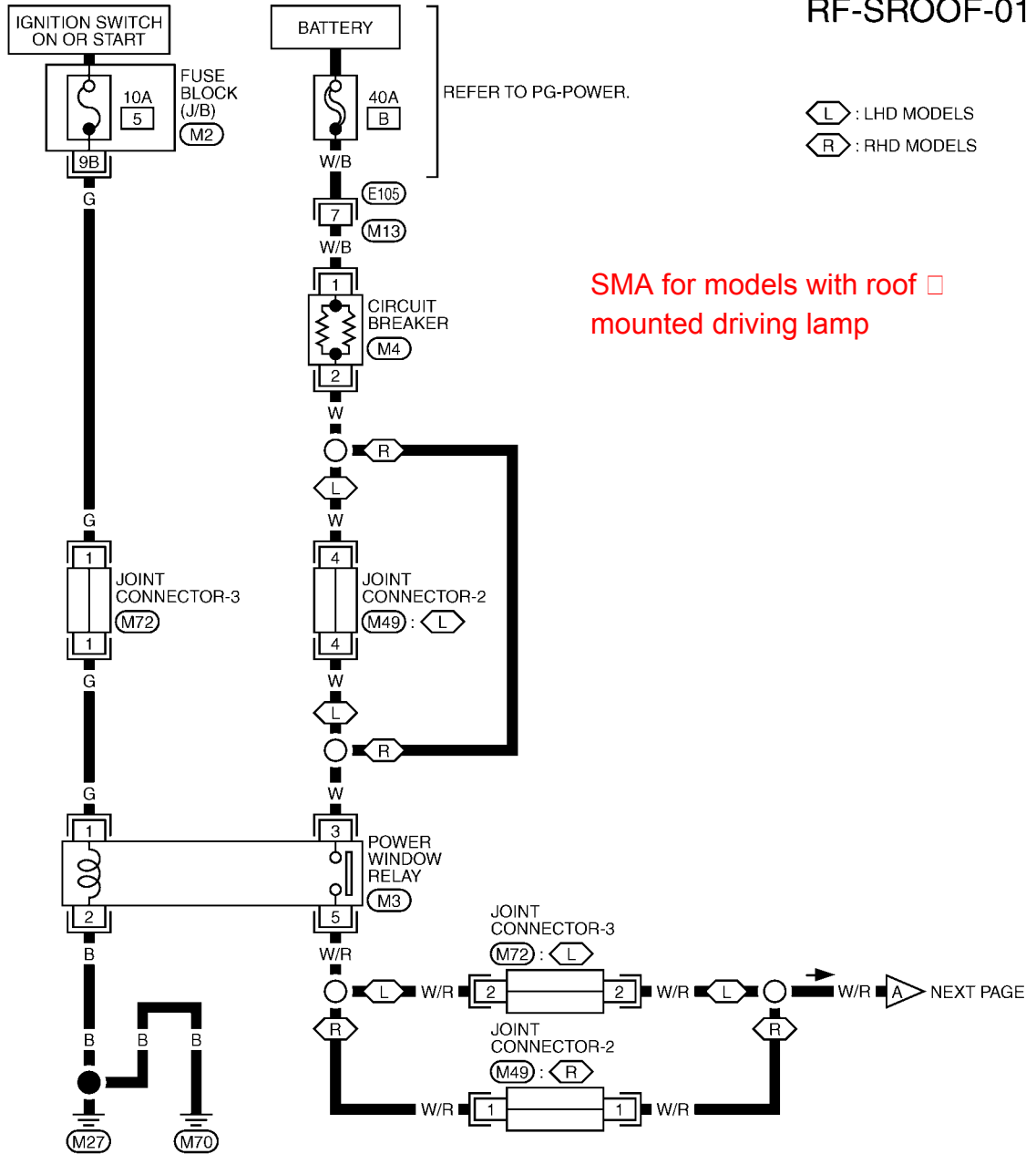


SUNROOF

Wiring Diagram — SROOF —

EIS000MM

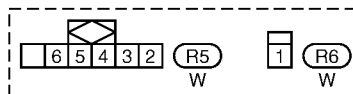
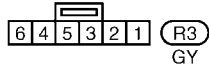
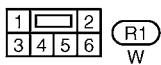
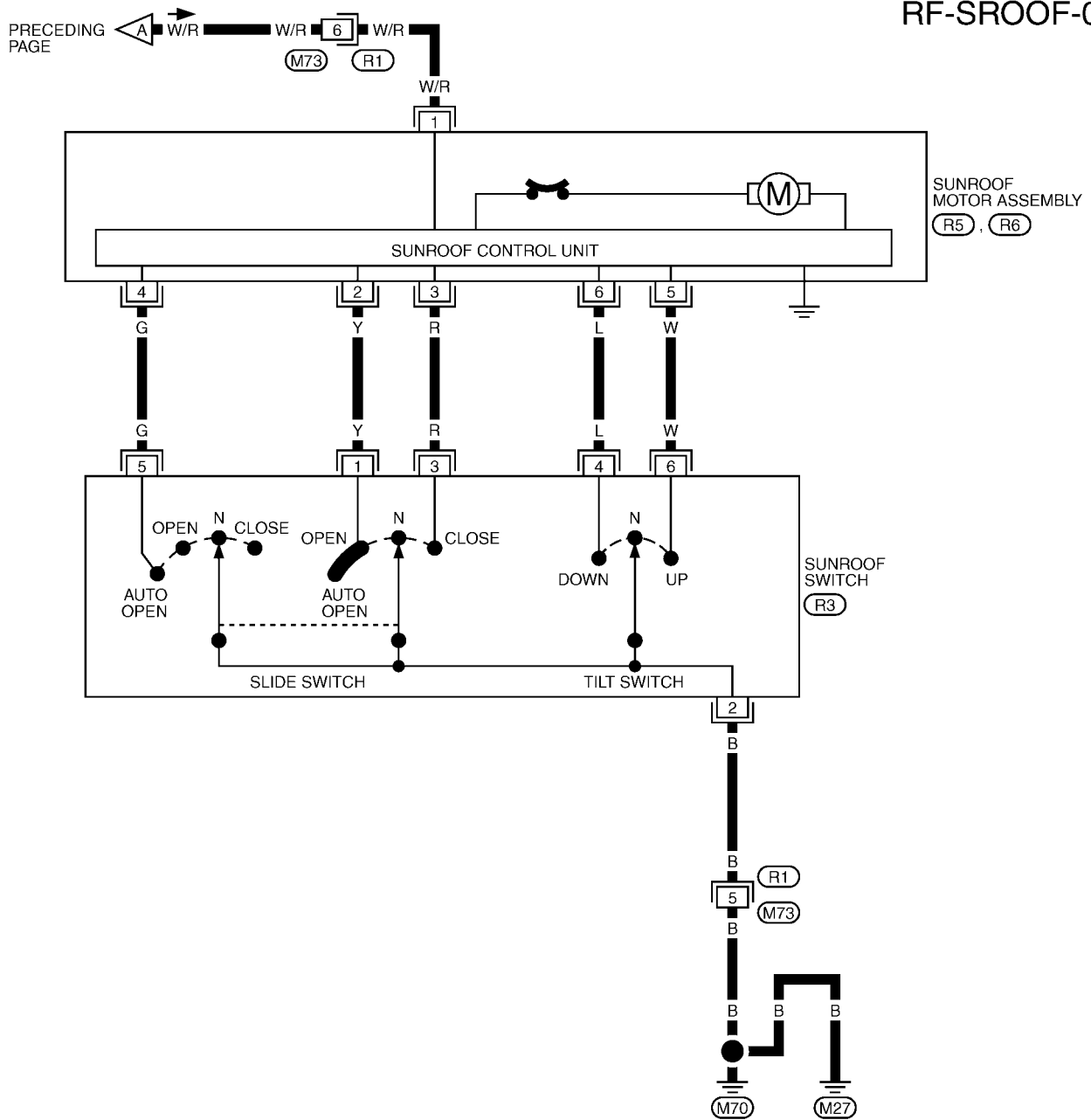
RF-SROOF-01



REFER TO THE FOLLOWING.

(M2) -FUSE BLOCK-JUNCTION BOX (J/B)

TIWA0001E



SUNROOF

Terminal and Reference Value for Sunroof Switch

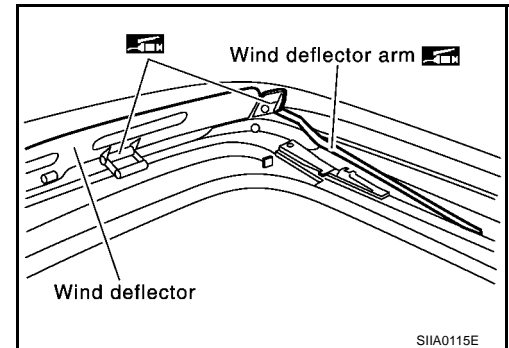
EIS000MN

| TERMI- NAL | WIRE COLOR | ITEM | CONDITION | VOLTAGE(V) (Approx) |
|---------------|---------------|--------------------------|------------------------------------|------------------------|
| 1 | Y | Sunroof OPEN signal | Sunroof switch OPEN operation | Battery voltage |
| 2 | B | Ground | — | Battery voltage |
| 3 | R | Sunroof CLOSE signal | Sunroof switch CLOSE operation | Battery voltage |
| 4 | L | Sunroof tilt DOWN signal | Sunroof switch tilt DOWN operation | Battery voltage |
| 5 | G | Sunroof AUTO OPEN signal | Sunroof switch AUTO OPEN operation | Battery voltage |
| 6 | W | Sunroof tilt UP signal | Sunroof switch tilt UP operation | Battery voltage |

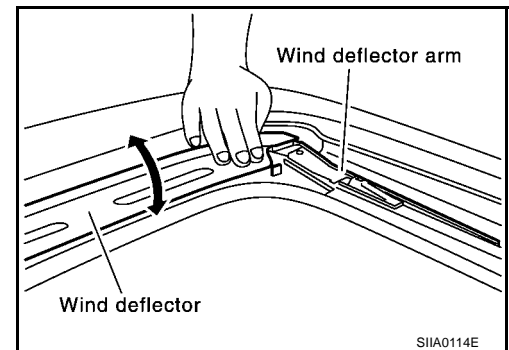
Wind Deflector Inspection

EIS000MO

1. Open glass lid.
2. Visually confirm that the mounting condition is correct.
3. Confirm wind deflector connection is properly greased. If necessary, apply body grease.



4. Confirm wind deflector can be properly raised by hand. If excess wear or damage is detected, remove and visually check it. If it is damaged, replace it with a new one. If no damage is found, reinstall it properly.



Sunroof Lid Weatherstrip Inspection

EIS000MP

If there is water leakage around glass lid, close glass lid and flush with water to determine whether it is from damaged parts or a gap.

1. Remove glass lid assembly.
2. Visually check weatherstrip for damage, deterioration, or deformation. If excess wear or damage is detected, replace glass lid assembly.

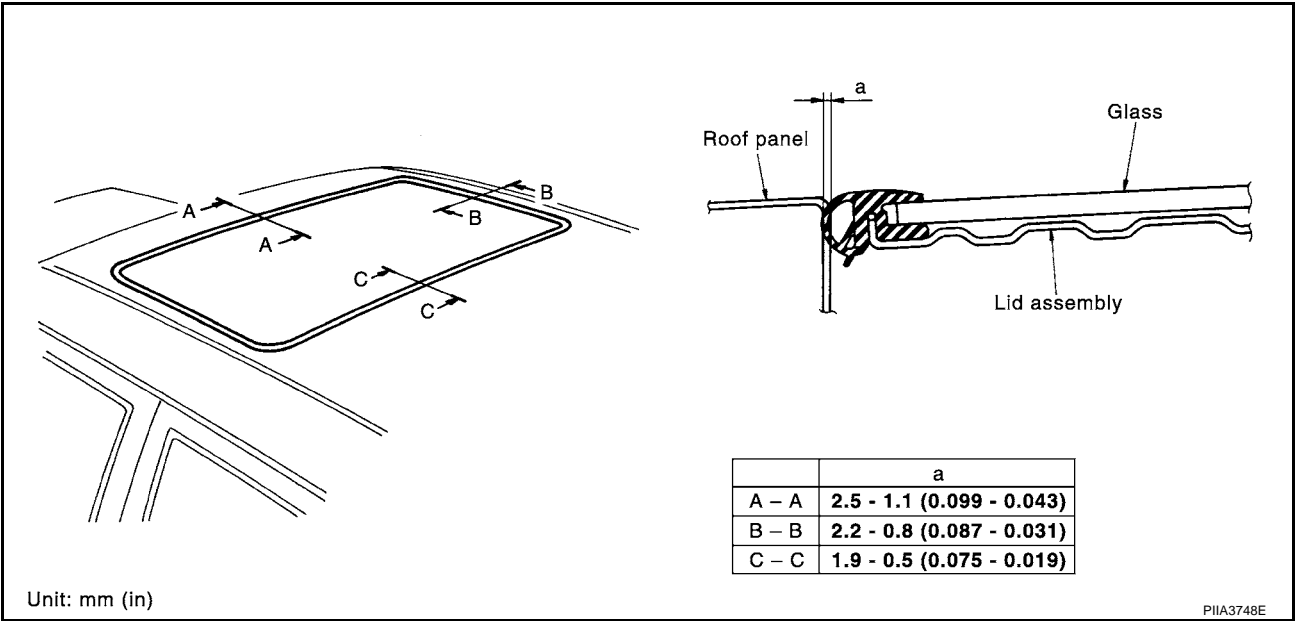
Link and Wire Assembly Inspection

EIS000MQ

1. If the link coating peels off to show the base material and an abnormal noise is heard, replace it.
2. Visually confirm the wire and rail groove are properly greased. If necessary, apply body grease.

Fitting Adjustment

EIS000MR

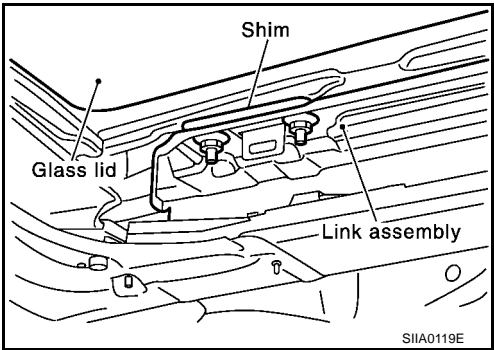


LONGITUDINAL/LATERAL CLEARANCE ADJUSTMENT

1. Tilt up glass lid to remove side trim.
2. After loosening glass lid mounting nuts, tilt down glass lid.
3. Adjust glass lid according to sections A-A, B-B, C-C as shown in the figure.
4. After adjusting glass lid, tighten nuts to the specified torque.
5. Tilt glass lid 4 to 5 times to check that it smoothly goes up and down

SURFACE MISMATCH ADJUSTMENT

1. Adjust surface height of glass lid and roof panel to 0 ± 1.5 mm (0 ± 0.059 in) by altering the number of shims between glass lid and link assembly. (Standard: 2, max: 4)
2. After fitting adjustment, use a hose to flush the entire surface of the roof with water to check for leaks.

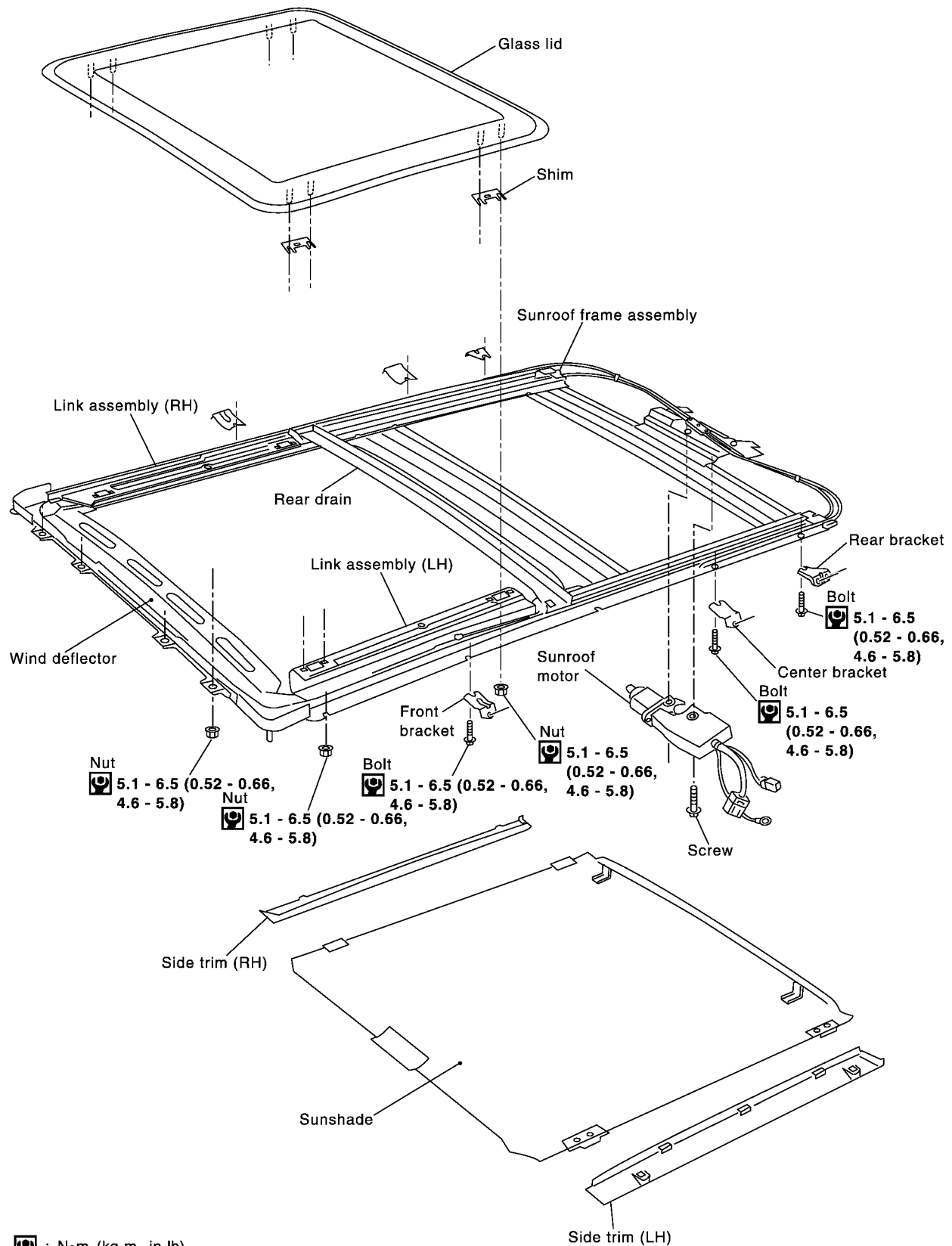


SUNROOF

Removal and Installation

EIS000MS

SEC. 736



: N•m (kg-m, in-lb)

SIIA0120E

SUNROOF

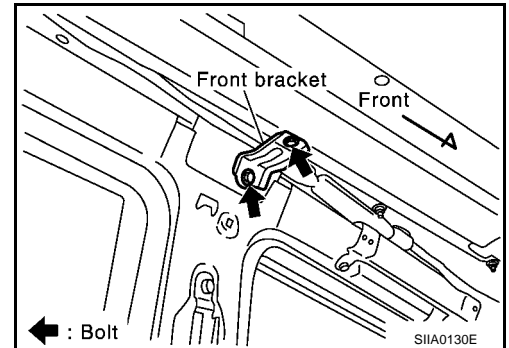
SUNROOF UNIT

Removal

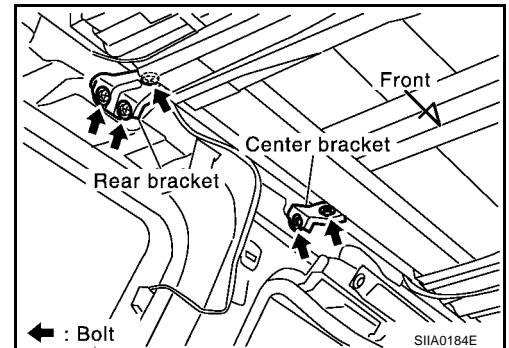
CAUTION:

- Removal and installation of sunroof unit require 2 workers.
- When taking sunroof unit out, use shop cloths to protect seats and trim from damage.
- After installing sunroof unit and glass lid, be sure to carry out the leak test to confirm there is no more leakage.

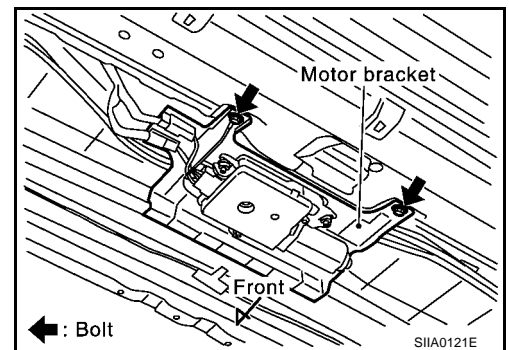
1. Remove headlining. Refer to [EI-29. "HEADLINING"](#)
2. Disconnect drain hoses.
3. Disconnect interior lamp harness.
4. Remove both unit-side and body-side front bracket mounting bolts.



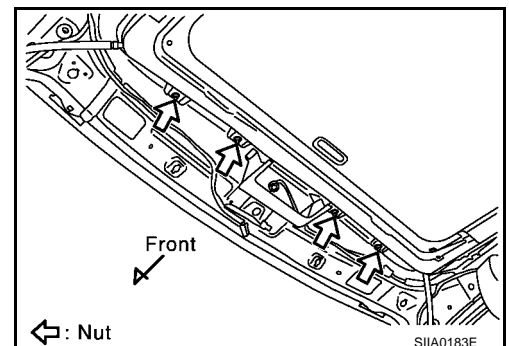
5. Remove both unit-side and body-side center and rear bracket mounting bolts.



6. Remove motor bracket mounting bolt.



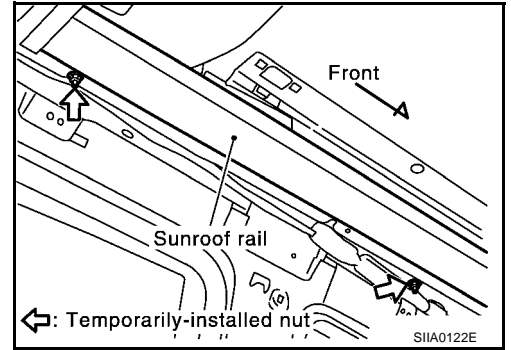
7. Remove mounting bolts on the front end and side rails, and remove sunroof unit from the roof panel.
8. Remove the sunroof unit out of the passenger compartment while being careful not to damage the seats and trim.



SUNROOF

Installation

1. After bringing sunroof unit into the passenger compartment, tighten mounting nuts on the side rails start from the one at the front reference point.
2. Tighten mounting nuts on the front end.

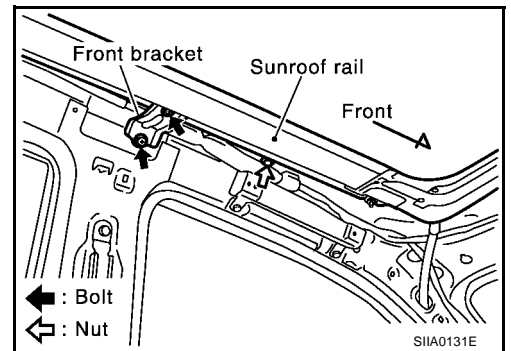


3. Align the front bracket to lower face of the rail and roof side mounting face, and tighten bolts. Then tighten bolts on the roof side.
4. Align the center and rear brackets to lower face of the rail and roof side mounting face, and tighten bolts. Then tighten bolts on the roof side.

NOTE:

Install the sunroof bracket evenly so that the roof surface has no distortion.

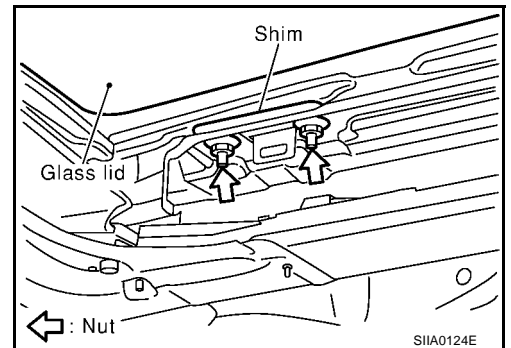
5. Tighten bolts on motor bracket.
6. Connect the interior lamp harness.



GLASS LID

Removal

1. Tilt up glass lid.
2. Remove side trim.
3. Confirm the number of shims between glass lid and link, and remove mounting nut to remove glass lid.



Installation

1. Tighten nuts on glass lid diagonally.
2. After installation, adjust the fit.

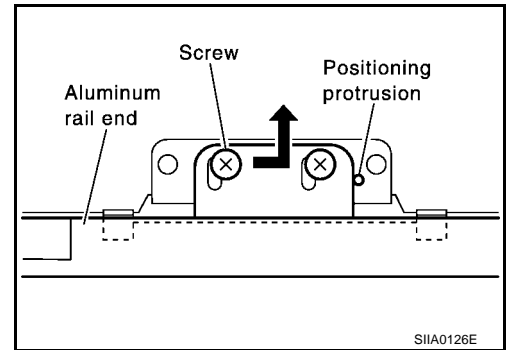
SUNSHADE

Removal and installation

1. Remove glass lid.
2. Remove rear drain.
3. Move link assembly to the fully open position.
4. Loosen the mounting screws on the front LH shade slider.

SUNROOF

5. As shown in the figure, slide shade slider to remove it from the aluminum rail.
6. Swivel shade toward the left, and remove RH shade from the aluminum rail.
7. Slide shade forward, and remove rear shade sliders as well.
8. Install in the reverse order of removal.



WIND DEFLECTOR

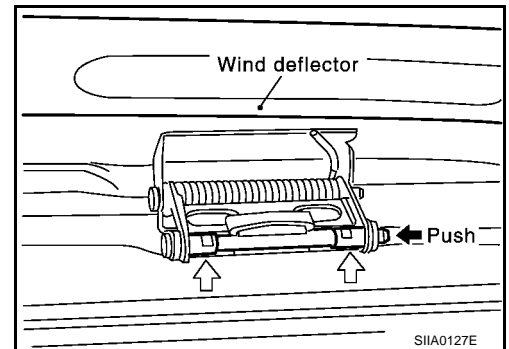
Removal and installation

1. Remove deflector arm mounting screws.
2. Using a pointed tool, pull up the tabs on the bushing.

NOTE:

Do not reuse the bushing after its tabs are pulled up.

3. Press and pull off the shaft.
4. Install in the reverse order of removal.



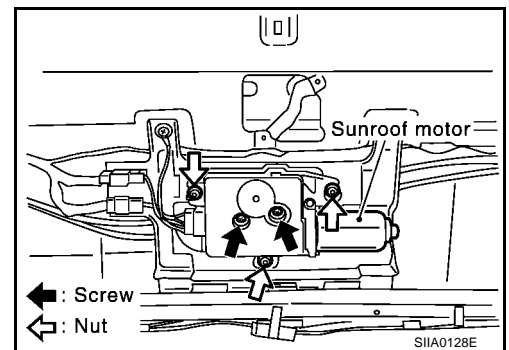
SUNROOF MOTOR

Removal

1. Remove headliner.
2. Remove motor mounting screw and mounting nut.
3. Remove the harness connector, and remove the sunroof motor.

NOTE:

- Remove the sunroof motor when the sunroof is in the fully-closed position.
- Never rotate the removed sunroof motor as a single unit.



Installation

1. Move sunroof motor laterally little by little until the gear is completely engaged onto the wire on sunroof unit and the mounting surface becomes parallel. Then secure sunroof motor with screws and nuts.

NOTE:

Before installing sunroof motor, be sure to place the link and wire assembly in the symmetrical and fully closed position.

SUNROOF
