

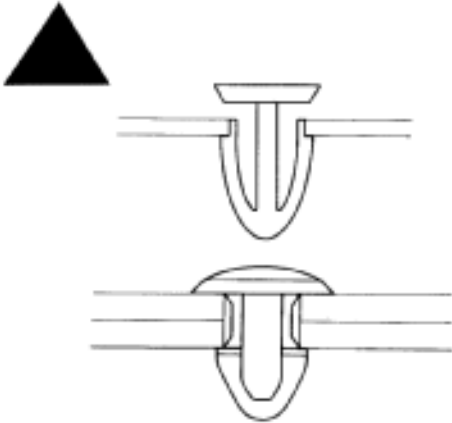
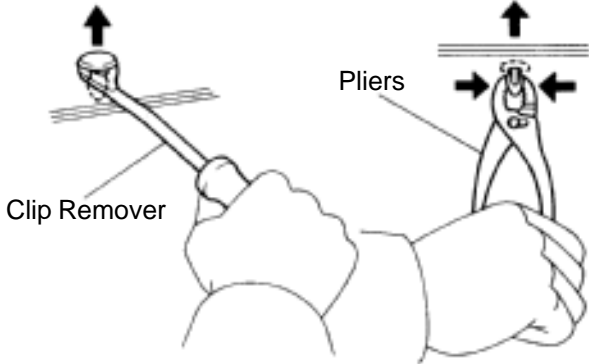
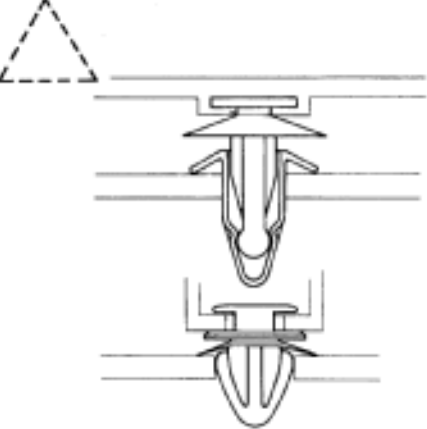
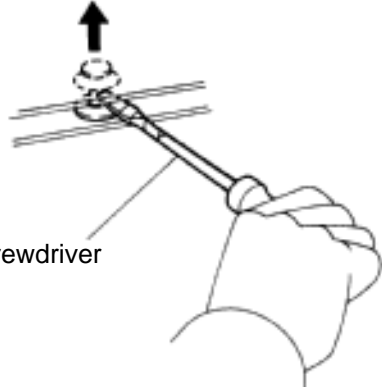
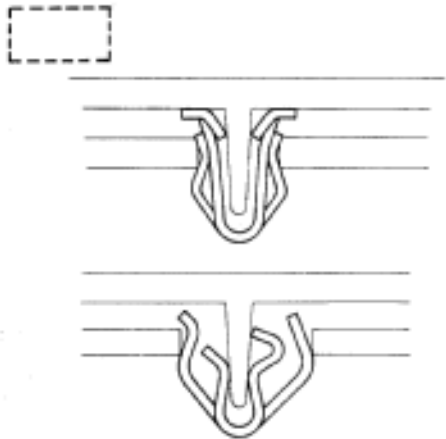
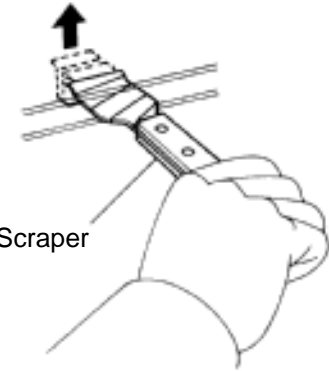
# CLIP REPLACEMENT

BO020-06


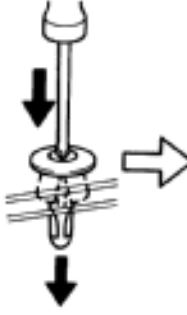
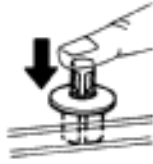

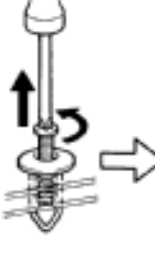

The removal and installation methods of typical clips used in body parts are shown in the table below.

HINT:

If the clip is damaged during the operation, always replace it with a new clip.

| Shape (Example)   | Removal/Installation  |
|---|---|
|   |  <p>Clip Remover</p> <p>Pliers</p> |
|  |  <p>Screwdriver</p>               |
|  |  <p>Scraper</p>                   |

V00005

| Shape (Example)  | Removal/Installation  |  |
|--|---|--|
|   | <p>Removal</p>   | <p>Installation</p>   |
|  | <p>Removal</p>  | <p>Installation</p>  |

V00012

# SRS AIRBAG

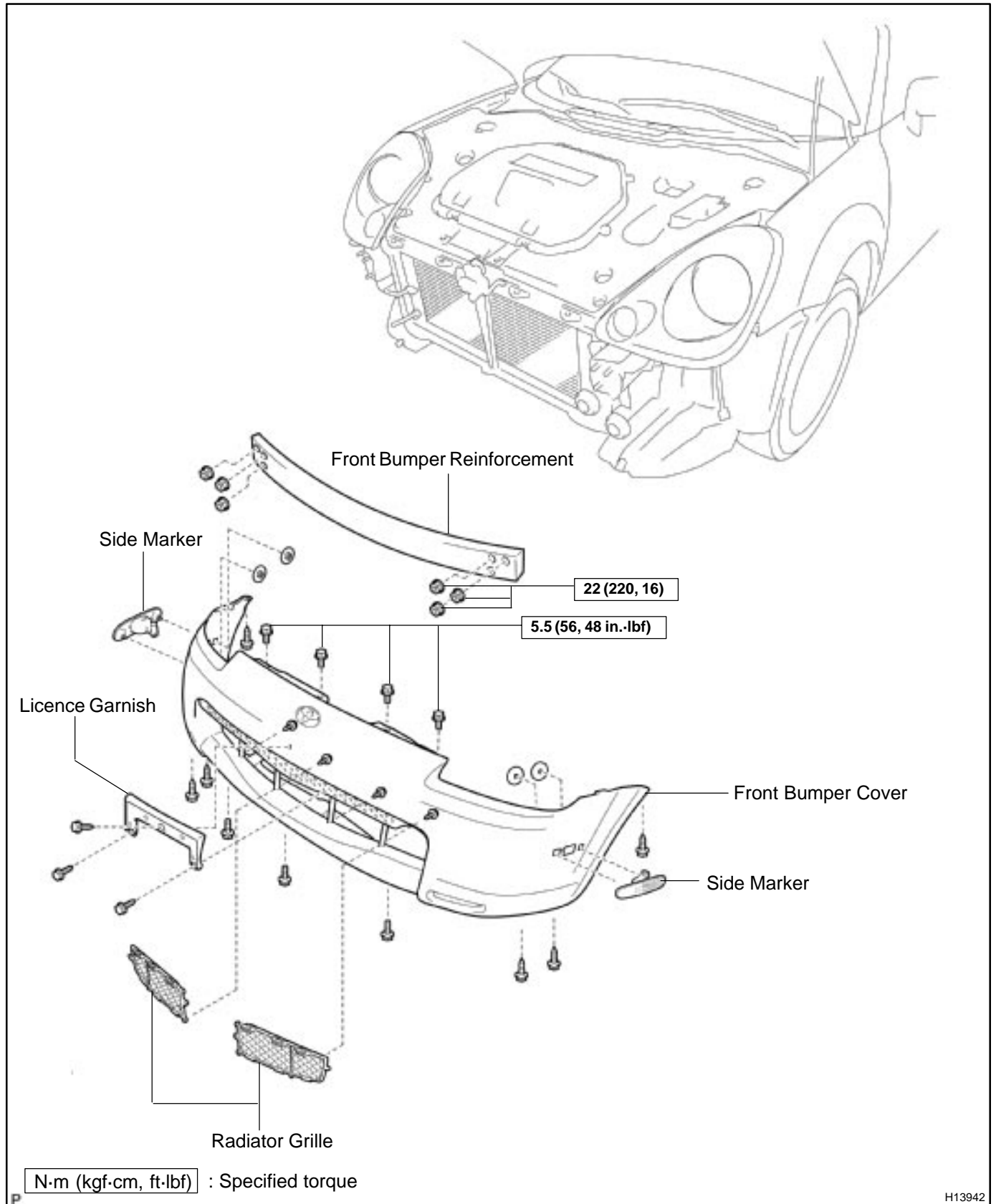
## PRECAUTION

B00ZF-04

The MR2 is equipped with an SRS (Supplemental Restraint System) such as the driver airbag, front passenger airbag and seat belt pretensioner. Failure to carry out service operation in the correct sequence could cause the SRS to unexpectedly deploy during servicing, possibly leading to a serious accident. Before servicing (including removal or installation of parts, inspection or replacement), be sure to read the precautionary notices in the RS section.

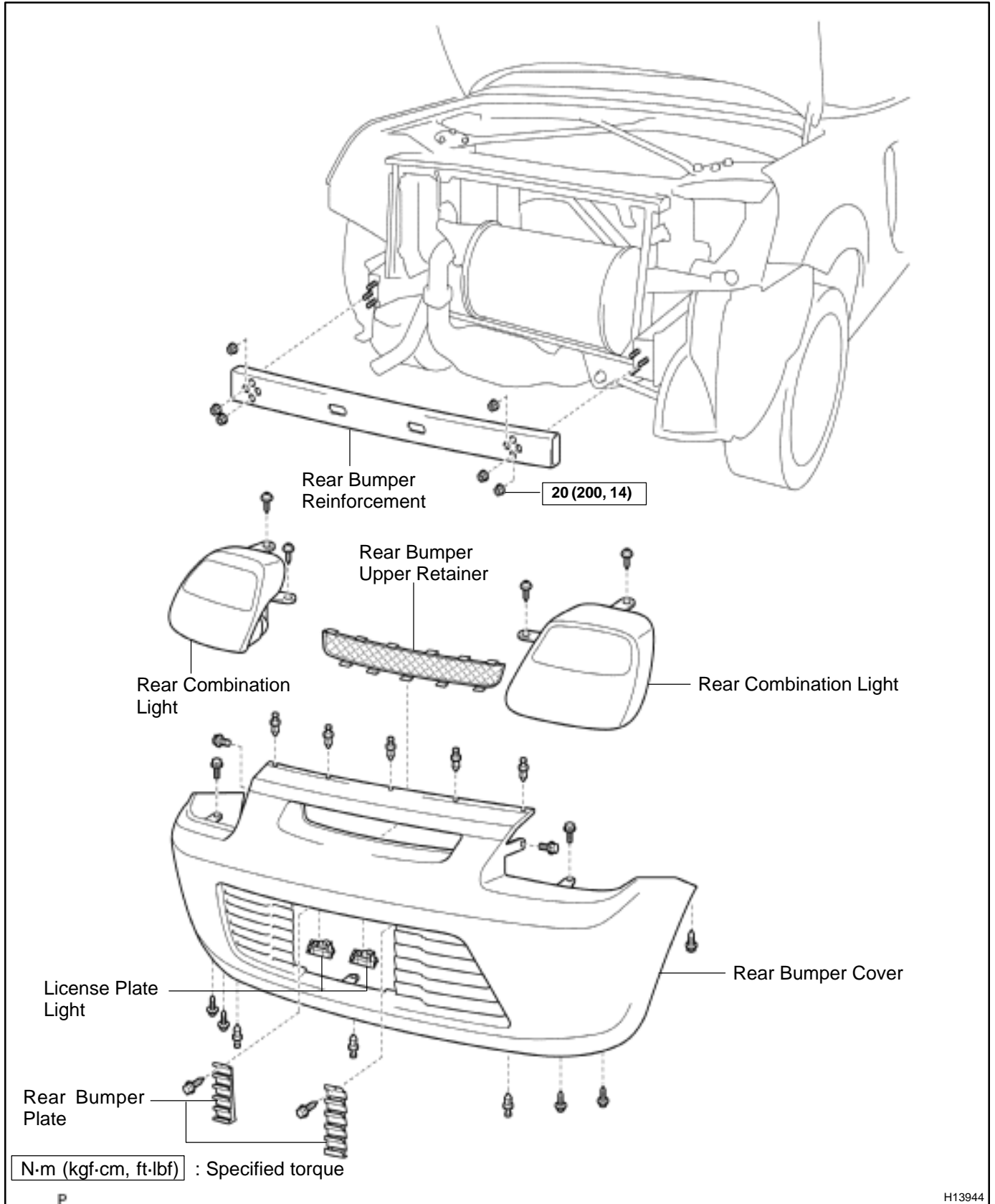
# FRONT BUMPER COMPONENTS

BO1DG-03



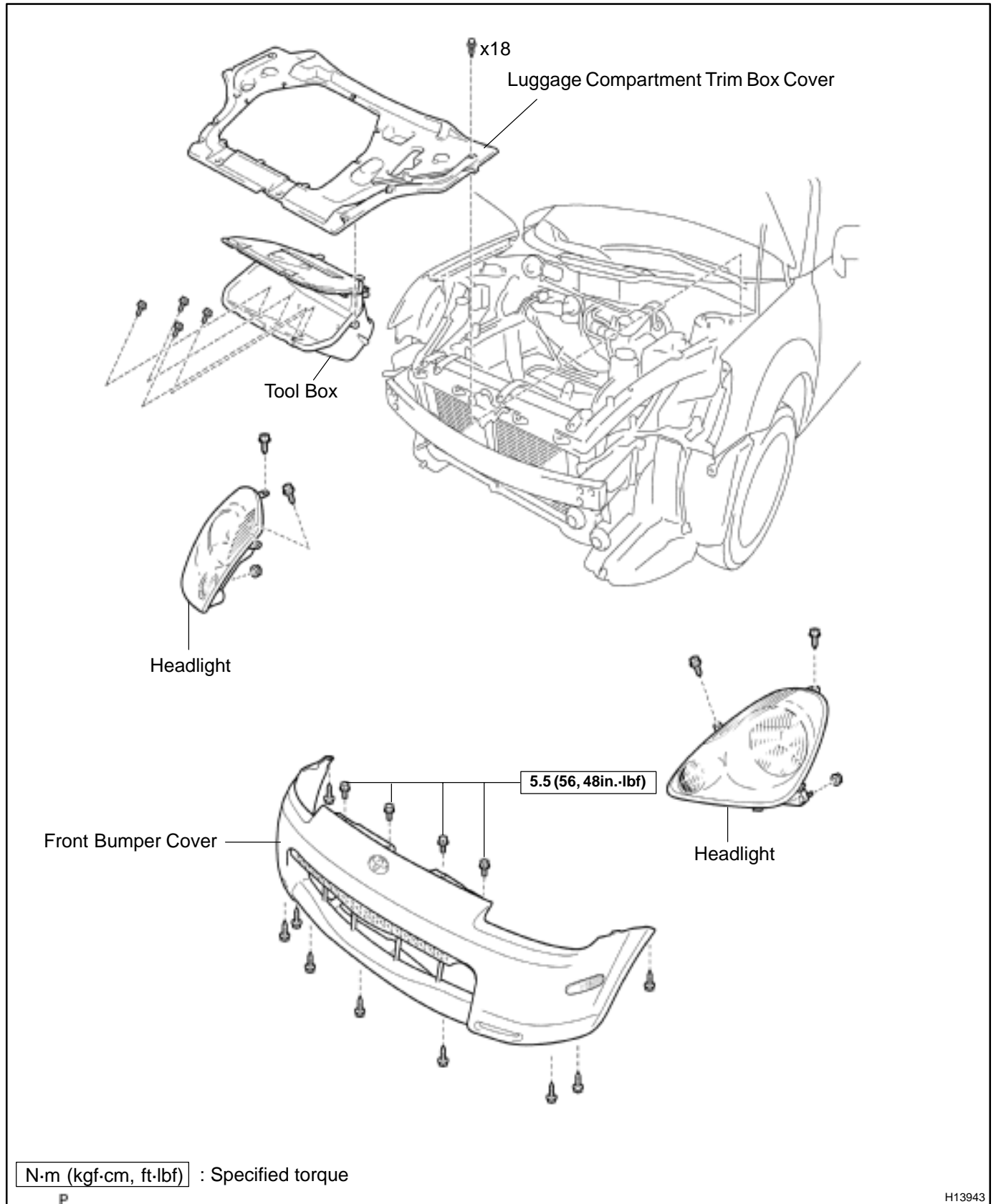
# REAR BUMPER COMPONENTS

BO1DH-03



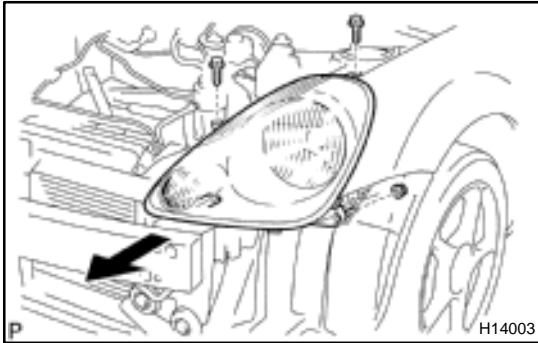
# HEADLIGHT COMPONENTS

BO2NB-02



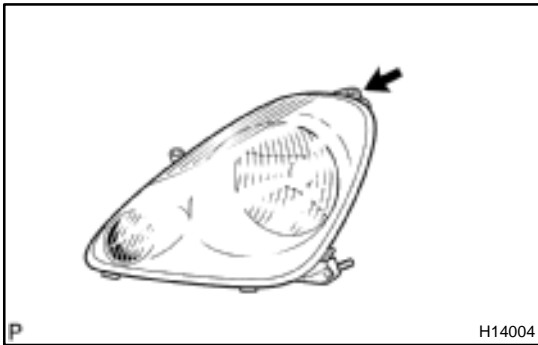
## REMOVAL

1. REMOVE FRONT BUMPER COVER  
(See page [BO-4](#))
2. REMOVE LUGGAGE COMPARTMENT TRIM BOX COVER
3. REMOVE TOOL BOX



4. REMOVE HEADLIGHT

- (a) Remove the 2 bolts and nut.
- (b) Disconnect the connectors, then remove the headlight as shown in the illustration.
- (c) Employ the same manner described above to the other side.



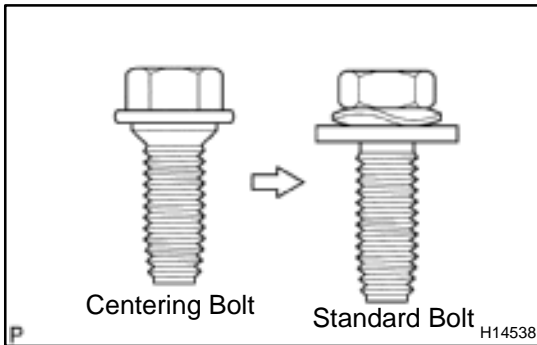
**HINT:**

At the time of installation, please refer to the following item.  
If the shown part of the headlight is damaged, the headlight can be reinstalled to the body by installing a bracket to it.

## INSTALLATION

Installation is in the reverse order of removal (See page [BO-6](#)).



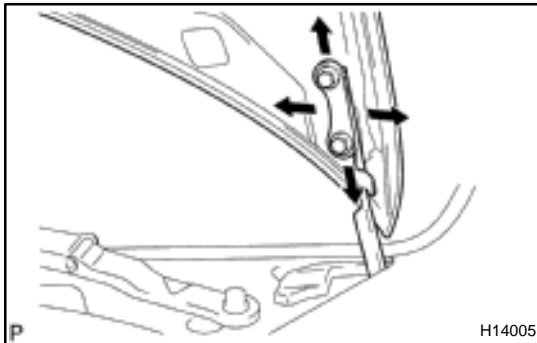


## HOOD ADJUSTMENT

BO2NE-03

### HINT:

Since the centering bolt is used as the hood hinge and lock set bolt, the hood cannot be adjusted with it. Substitute the standard bolt for the centering bolt.



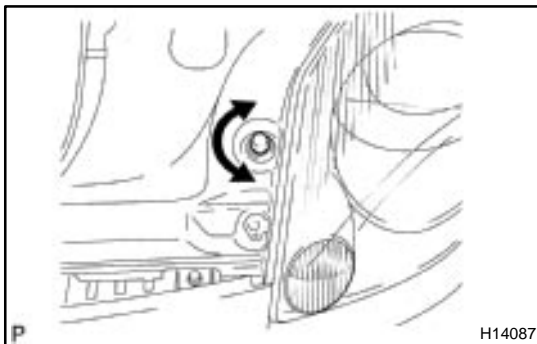
### 1. ADJUST HOOD IN FORWARD/REARWARD AND LEFT/LIGHT DIRECTIONS

- (a) Adjust the hood by loosening the hood side hinge bolts.
- (b) Tighten the loosened bolts again.

#### Torque:

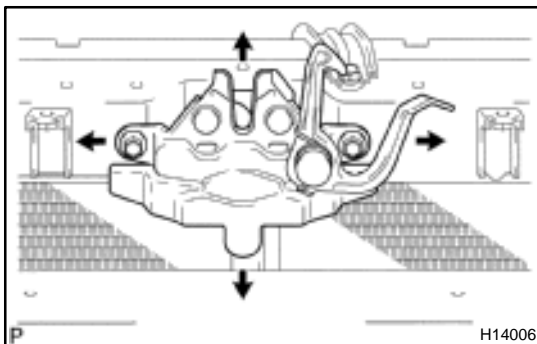
**Centering bolt: 13 N·m (130 kgf·cm, 9 ft·lbf)**

**Standard bolt: 12 N·m (120 kgf·cm, 9 ft·lbf)**



### 2. ADJUST FRONT EDGE OF HOOD IN VERTICAL DIRECTION

Adjust the hood by turning the cushions.



### 3. ADJUST HOOD LOCK

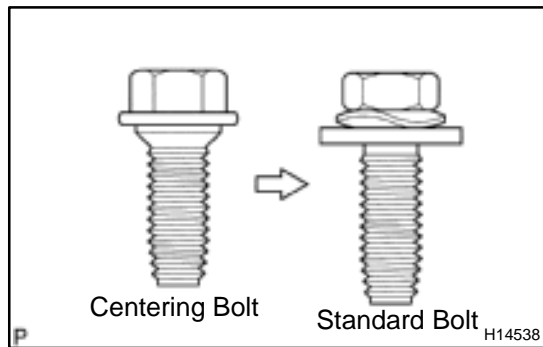
- (a) Remove the front bumper (See page [BO-4](#)).
- (b) Adjust the hood lock by loosening the bolts.
- (c) Tighten the loosened bolts again.

#### Torque:

**Centering bolt: 8.0 N·m (80 kgf·cm, 70 in.-lbf)**

**Standard bolt: 7.0 N·m (70 kgf·cm, 60 in.-lbf)**

- (d) Reinstall the removed parts.

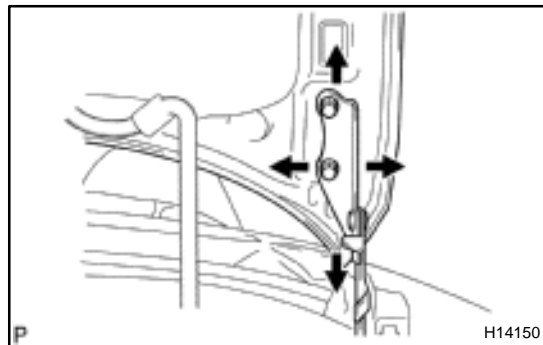


## ENGINE HOOD ADJUSTMENT

BO34Y-01

### HINT:

Since the centering bolt is used as the hood hinge and lock set bolt, the hood cannot be adjusted with it. Substitute the standard bolt for the centering bolt.



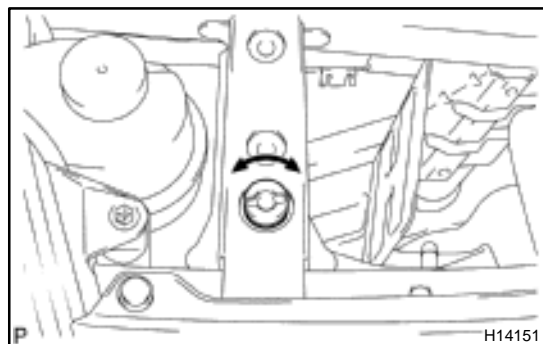
### 1. ADJUST HOOD IN FORWARD/REARWARD AND LEFT/ LIGHT DIRECTIONS

- (a) Adjust the hood by loosening the hood side hinge bolts.
- (b) Tighten the loosened bolts again.

#### Torque:

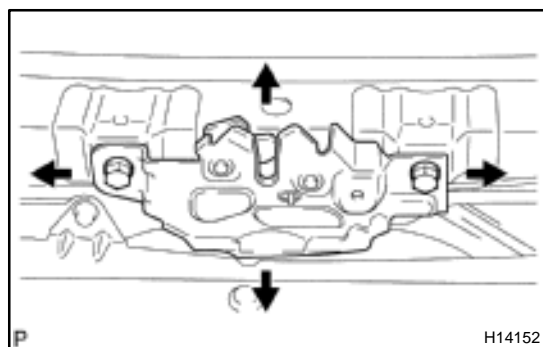
**Centering bolt: 8.0 N-m (80 kgf-cm, 70 in.-lbf)**

**Standard bolt: 7.0 N-m (70 kgf-cm, 60 in.-lbf)**



### 2. ADJUST FRONT EDGE OF HOOD IN VERTICAL DIRECTION

Adjust the hood by turning the cushions.



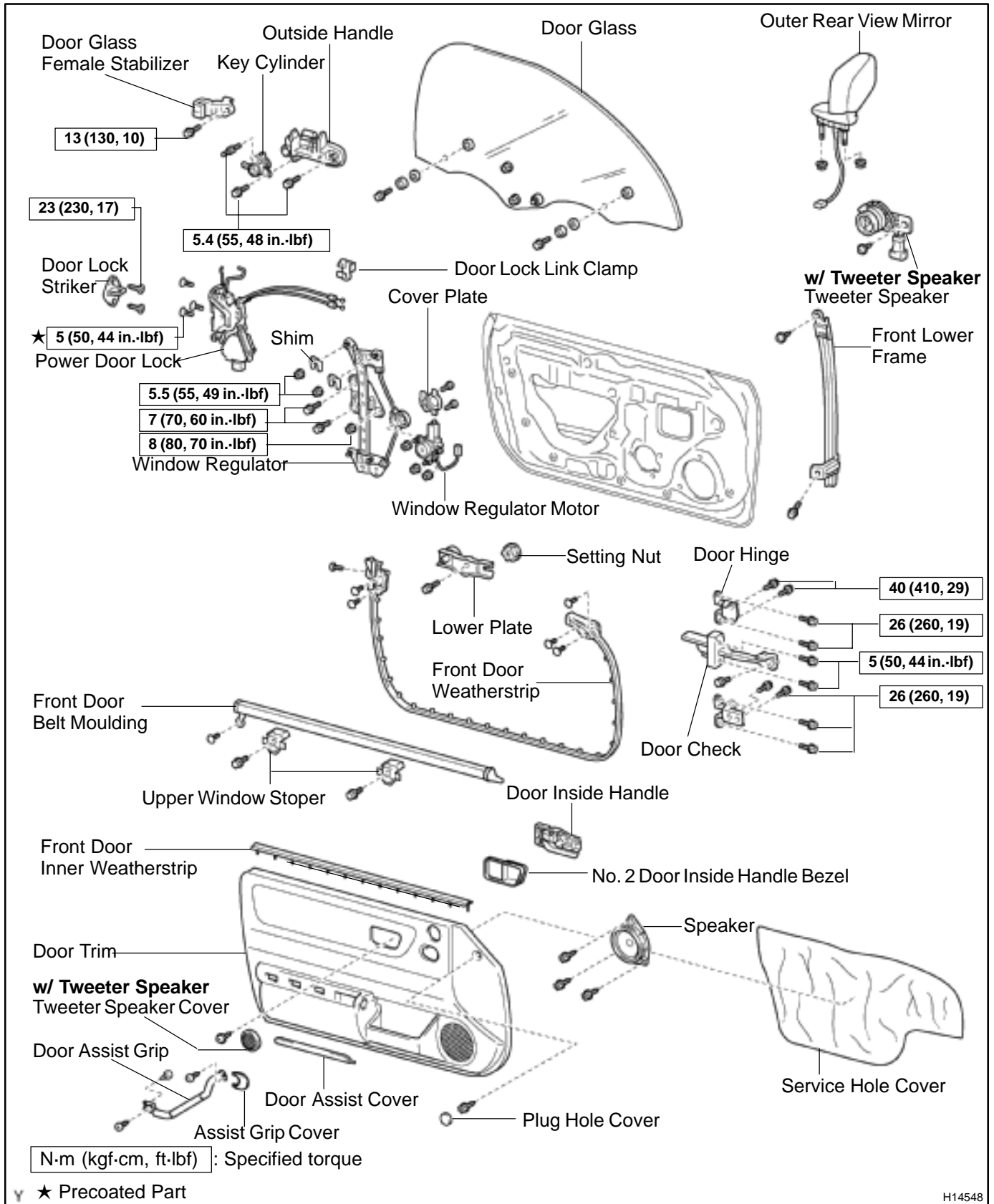
### 3. ADJUST HOOD LOCK

- (a) Adjust the hood lock by loosening the bolts.
- (b) Tighten the loosened bolts again.

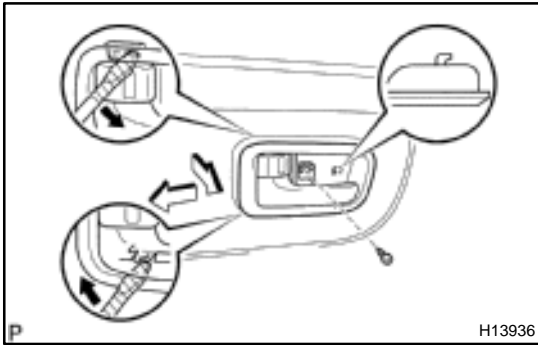
**Torque: 17.5 N-m (180 kgf-cm, 13 ft-lbf)**

# FRONT DOOR COMPONENTS

BO1DJ-03



H14548



## DISASSEMBLY

### 1. REMOVE NO. 2 DOOR INSIDE HANDLE BEZEL

- (a) Using a screwdriver, remove the No. 2 door inside handle bezel.

**HINT:**

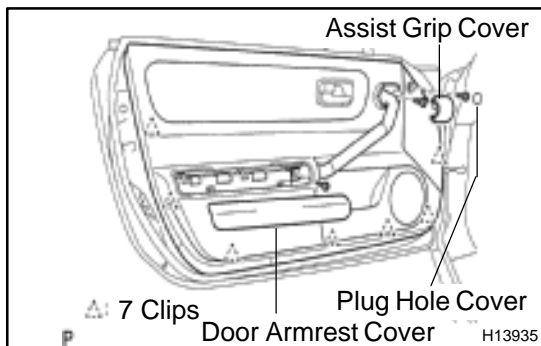
Tape the screwdriver tip before use.

- (b) Remove the screw.

- (c) Using a screwdriver, remove the inside handle bezel as shown in the illustration.

**HINT:**

Tape the screwdriver tip before use.



### 2. REMOVE DOOR TRIM

- (a) w/ Tweeter speaker:

Using a screwdriver, remove the tweeter speaker cover.

**HINT:**

Tape the screwdriver tip before use.

- (b) Using a screwdriver, remove the plug hole cover and screw.

**HINT:**

Tape the screwdriver tip before use.

- (c) Using a screwdriver, remove the door armrest cover and assist grip cover.

**HINT:**

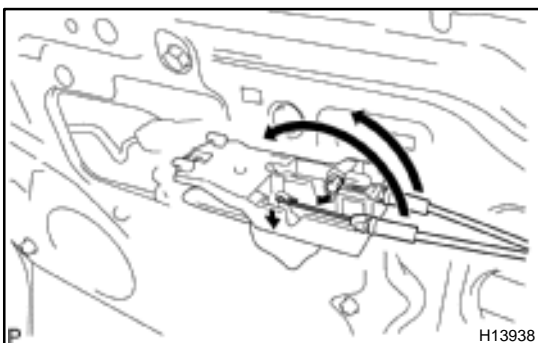
Tape the screwdriver tip before use.

- (d) Remove the 2 screws.

- (e) Insert a screwdriver between the door panel and door trim to pry the trim out.

**HINT:**

Tape the screwdriver tip before use.



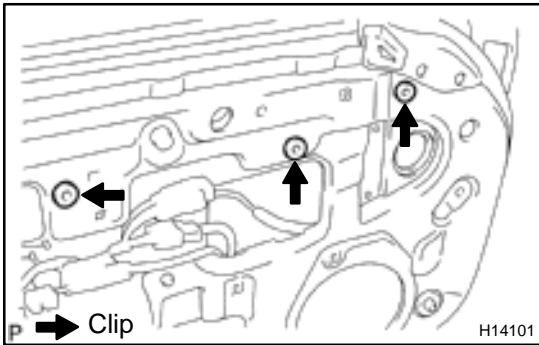
- (f) Pull the trim upward to remove it, then disconnect the locking cable and open cable from the door inside handle.

**HINT:**

At the time of reassembly, please refer to the following items.

- Check that a ball at the end of the locking cable is pressed (The cable should be locked.).
  - Turn the locking knob of the inside handle fully to the lock side and install the locking cable.
- (g) Remove the screw and door inside handle from the door trim.

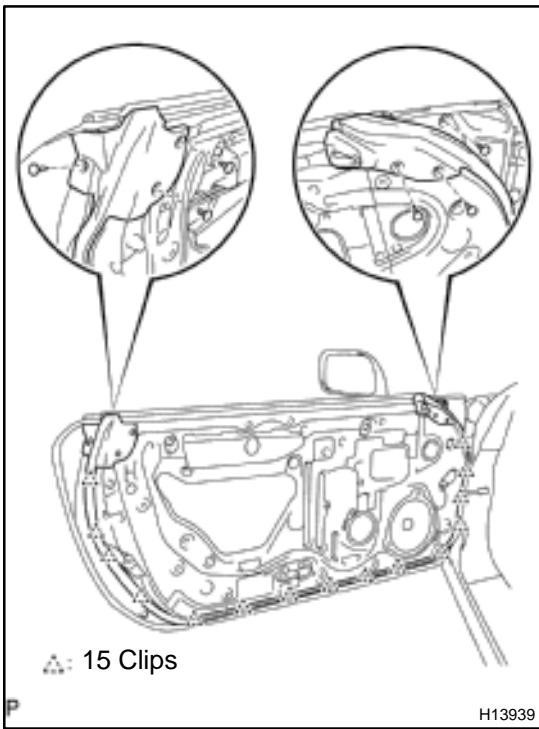
- (h) Using a screwdriver, remove the front door inner weatherstrip from the door trim.
- 3. **w/ Tweeter speaker:**  
**REMOVE TWEETER SPEAKER**



- 4. **REMOVE SERVICE HOLE COVER**  
Remove the 3 clips and service hole cover.

**NOTICE:**  
**Do not tear the cover.**

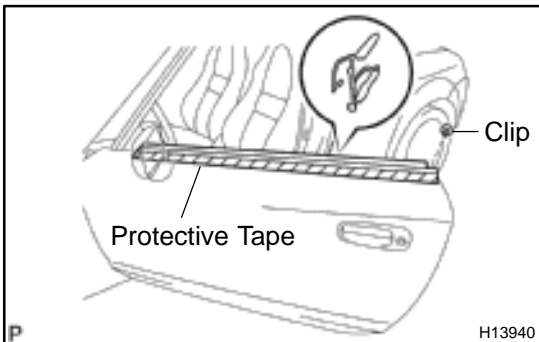
**HINT:**  
At the time of reassembly, please refer to the following item.  
Bring out the 2 cables and wire harness through the slits of service hole cover.



- 5. **REMOVE FRONT DOOR WEATHERSTRIP**

- (a) Using a clip remover, remove the 6 clips.
- (b) Using a screwdriver, remove the front door weatherstrip.

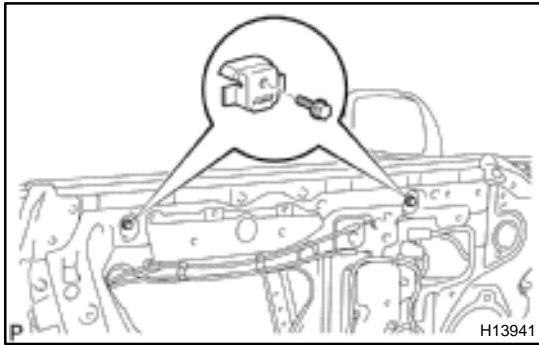
**HINT:**  
Tape the screwdriver tip before use.



- 6. **REMOVE FRONT DOOR BELT MOULDING**

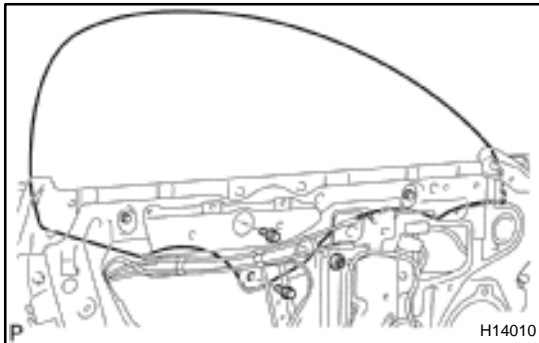
- (a) Using a clip remover, remove the clip.
- (b) Using a moulding remover, remove the front door belt moulding.

**HINT:**  
Apply protective tape to the outer surface to keep the surface from being scratched.

**7. REMOVE UPPER WINDOW STOPS**

Remove the 2 bolts and 2 upper window stops.

**Torque: 13 N·m (130 kgf-cm, 10 ft-lbf)**

**8. REMOVE DOOR GLASS**

(a) Close the door glass until the nuts appear in the service hole.

(b) Remove the nut and 2 bolts.

**Torque:**

**Nut: 8 N·m (80 kgf-cm, 70 in.-lbf)**

**Bolt: 7 N·m (70 kgf-cm, 60 in.-lbf)**

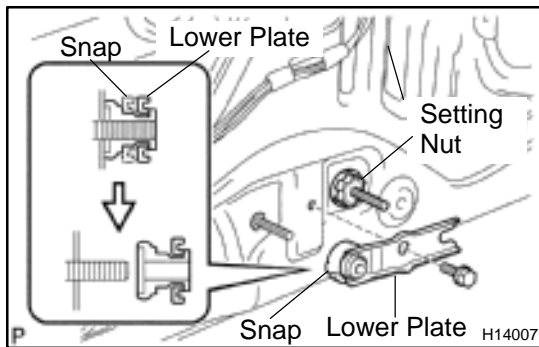
(c) Take the door glass out of the panel carefully.

**NOTICE:**

**Be careful not to drop the door glass.**

**HINT:**

At the time of reassembly, please refer to the following item.  
Insert a shop rag inside the panel to prevent the glass from being scratched.

**9. REMOVE WINDOW REGULATOR**

(a) Remove the bolt of lower plate.

**Torque: 5 N·m (50 kgf-cm, 44 in.-lbf)**

(b) Unlock the snap by pulling the lower plate.

(c) Remove the snap and lower plate from the stud bolt of lower bracket.

(d) Remove the setting nut.

(e) Disconnect the connector.

(f) Remove the 2 nuts and window regulator.

**Torque: 5.5 N·m (55 kgf-cm, 48 in.-lbf)**

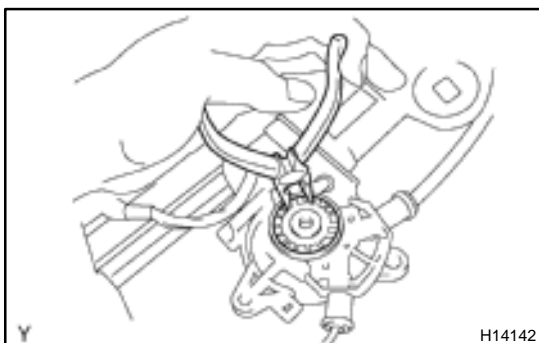
**10. If replacing window regulator:****REMOVE WINDOW REGULATOR FROM MOTOR**

(a) Remove the 2 screws and cover plate.

(b) Using needle nose pliers, remove the drum and wire guide from the motor.

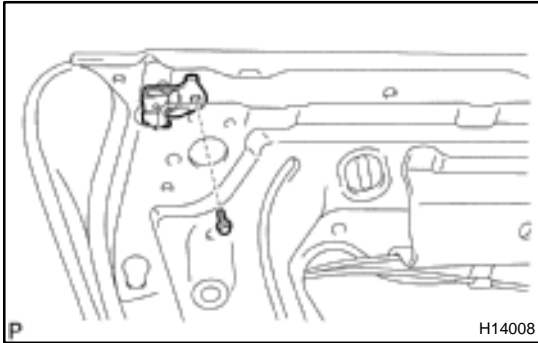
**NOTICE:**

**Do not use a screwdriver etc. to remove them.**



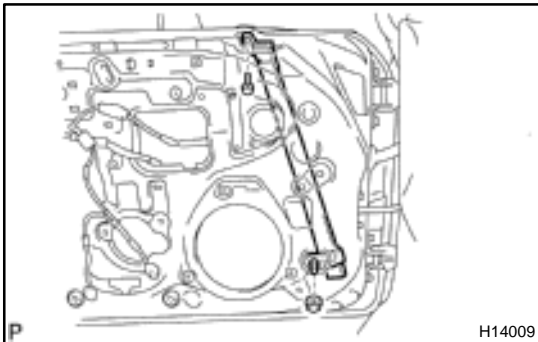
**11. REMOVE SPEAKER**

- (a) Remove the 3 bolts and speaker.
- (b) Disconnect the connector.

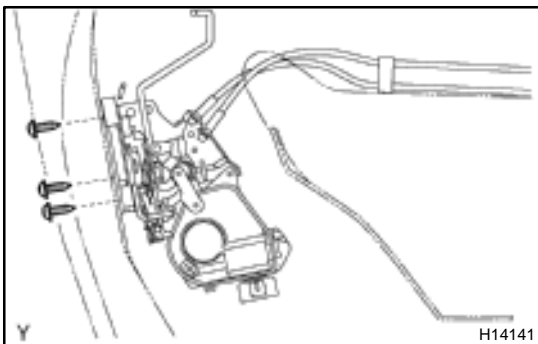
**12. REMOVE DOOR GLASS FEMALE STABILIZER**

Remove the screw and door glass female stabilizer.

**Torque: 13 N·m (130 kgf·cm, 10 ft·lbf)**

**13. REMOVE FRONT LOWER FRAME**

- (a) Remove the bolt and nut.
- (b) Disengage the clamp of door wire harness from the front lower frame.
- (c) Remove the front lower frame through the service hole.
- (d) Remove the door glass run from the lower frame.

**14. REMOVE DOOR LOCK**

- (a) Disconnect the 2 links from the outside handle and key cylinder.
- (b) Disconnect the connector and remove the 3 screws.

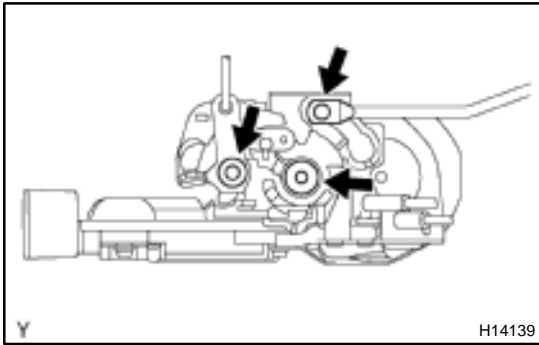
**Torque: 5 N·m (50 kgf·cm, 44 in.-lbf)**

**HINT:**

- At the time of reassembly, please refer to the following item.
- Apply adhesive to 3 screws.

**Adhesive: Part No. 08833-00070, THREE BOND 1324 or equivalent**

- (c) Remove the door lock through the service hole.
- (d) Remove the door lock link clamp.



## HINT:

- At the time of reassembly, please refer to the following item.
- Apply MP grease to the sliding and rotating parts of the door lock.

**15. REMOVE OUTER MIRROR**

- (a) Remove the 2 nuts.
- (b) Remove the connector and mirror.

**16. REMOVE OUTSIDE HANDLE**

- (a) Remove the 2 bolts and outside handle with key cylinder.  
**Torque: 5.4 N·m (55 kgf·cm, 48 in.-lbf)**
- (b) Remove the bolt and key cylinder from the outside handle.

**Torque: 5.4 N·m (55 kgf·cm, 48 in.-lbf)**

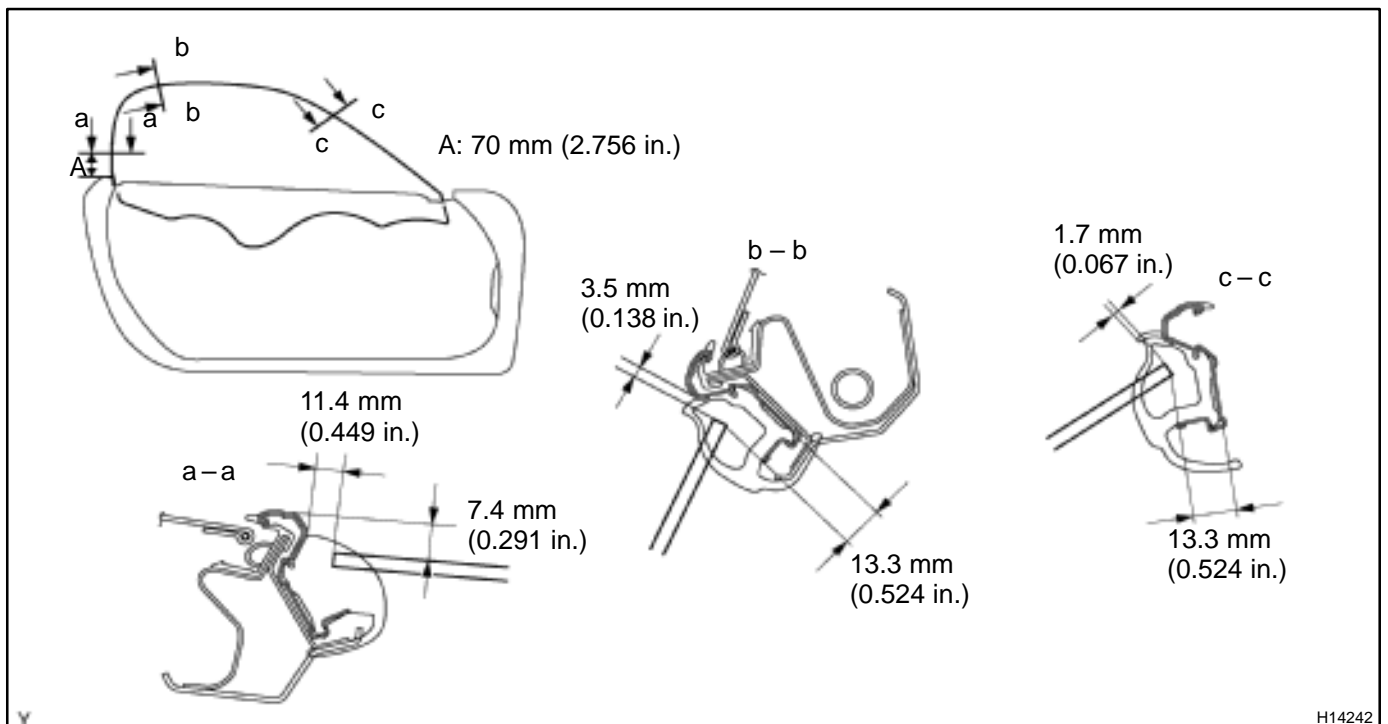


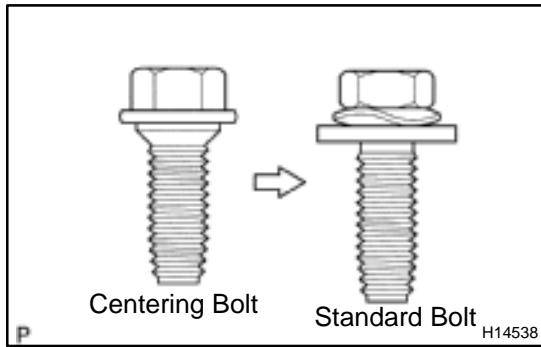
# INSPECTION

## INSPECT FRONT DOOR GLASS

Check the following. If the conditions are not met, readjust the glass.

- (1) When you close the door with the glass fully closed, the a-a, b-b, c-c sections are in the same condition as shown in the illustration.
- (2) When you close the door with the glass fully closed, check that the weatherstrip is not pinched and that the door glass is not in contact with the roof drip moulding.
- (3) When the door glass is fully closed, check that the outside edge of the door glass is in contact with the weatherstrip at the front pillar and roof side and that the edge of the glass cannot be seen.
- (4) Check that the door glass is not loose when it is half open.
- (5) When the door glass is rising up, check that the door glass and roof side weatherstrip are parallel and that the door glass contacts the 2 upper stops.
- (6) Check that the door glass moves up and down smoothly over all areas.



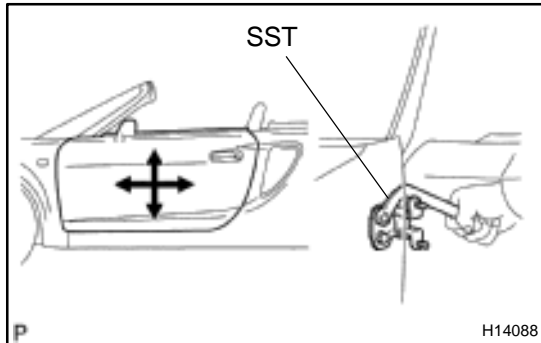


## ADJUSTMENT

### 1. FRONT DOOR ADJUSTMENT

#### HINT:

Since the centering bolt is used as the door side hinge bolt, the door hinge cannot be adjusted with it. Substitute the standard bolt for the centering bolt.



- (a) Adjust the front door in forward/rearward and vertical directions.

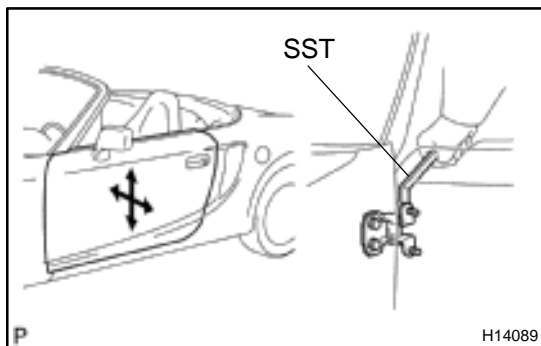
Using SST, adjust the door by loosening the body side hinge bolts.

SST 09812-00010

#### Torque:

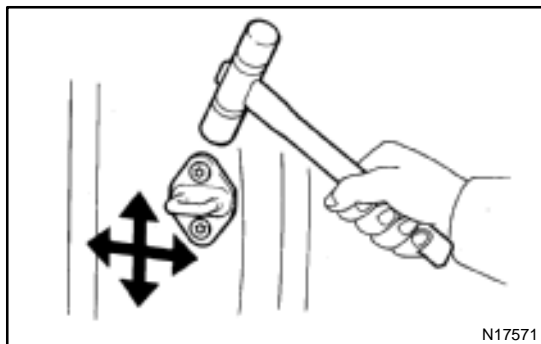
**Upper bolt: 40 N·m (410 kgf-cm, 29 ft-lbf)**

**Lower bolt: 26 N·m (270 kgf-cm, 19 ft-lbf)**



- (b) Adjust the front door in left/right and vertical directions. Adjust the door by loosening the door side hinge bolts.

**Torque: 26 N·m (270 kgf-cm, 19 ft-lbf)**



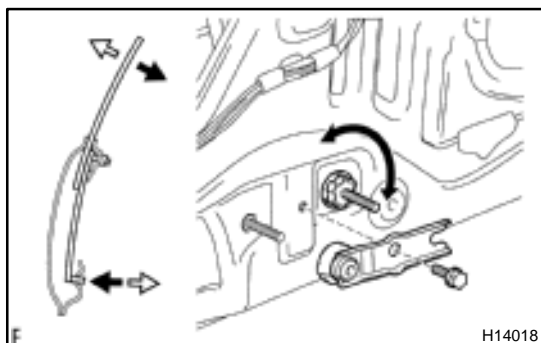
- (c) Adjust the front door lock striker.

(1) Check the door fit and that door lock linkages are adjusted correctly.

(2) Adjust the striker position by slightly loosening the striker mounting screws and hitting the striker with a hammer.

(3) Tighten the striker mounting screws again.

**Torque: 23 N·m (230 kgf-cm, 17 ft-lbf)**



### 2. ADJUST FRONT DOOR GLASS

- (a) Adjust the upper part of the glass inward/outward.

(1) Remove the bolt and lower plate.

(2) Pull the lower plate so that the snap is unlocked.

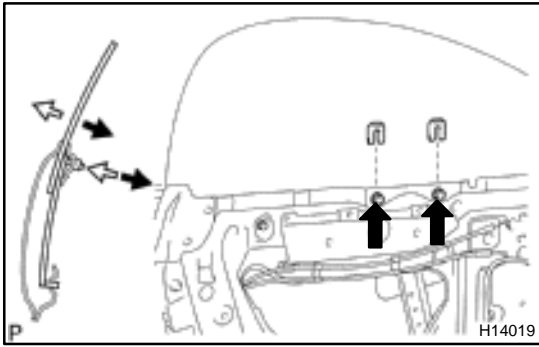
(3) Remove the snap and lower plate.

(4) Adjust the glass by turning the setting nut.

(5) Reinstall the lower plate, snap and bolt.

**Torque: 5.0 N·m (50 kgf-cm, 44 in.-lbf)**

BODY - FRONT DOOR



- (b) Adjust the lower part of the glass inward/outward.
  - (1) Loosen the 2 nuts on the top of the window regulator.
  - (2) Insert the shim to adjust the glass position (inside/outside).

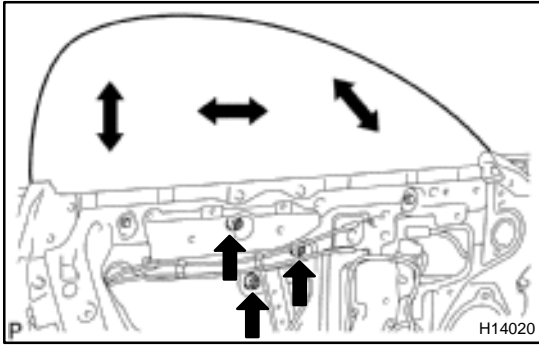
**Shim thickness:**

**1.0 mm (0.039 in.)**

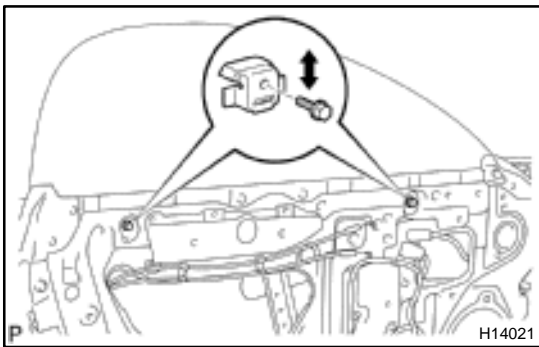
**2.0 mm (0.079 in.)**

- (3) Tighten the 2 nuts.

**Torque: 5.5 N·m (56 kgf-cm, 49 in.-lbf)**



- (c) Adjust the glass to the proper position (forward/rearward). Loosen the 3 nuts of the carrier plate for adjustment.



- (d) Adjust the glass to the proper position vertically (With the glass fully closed).

Adjust the door window upper stops.

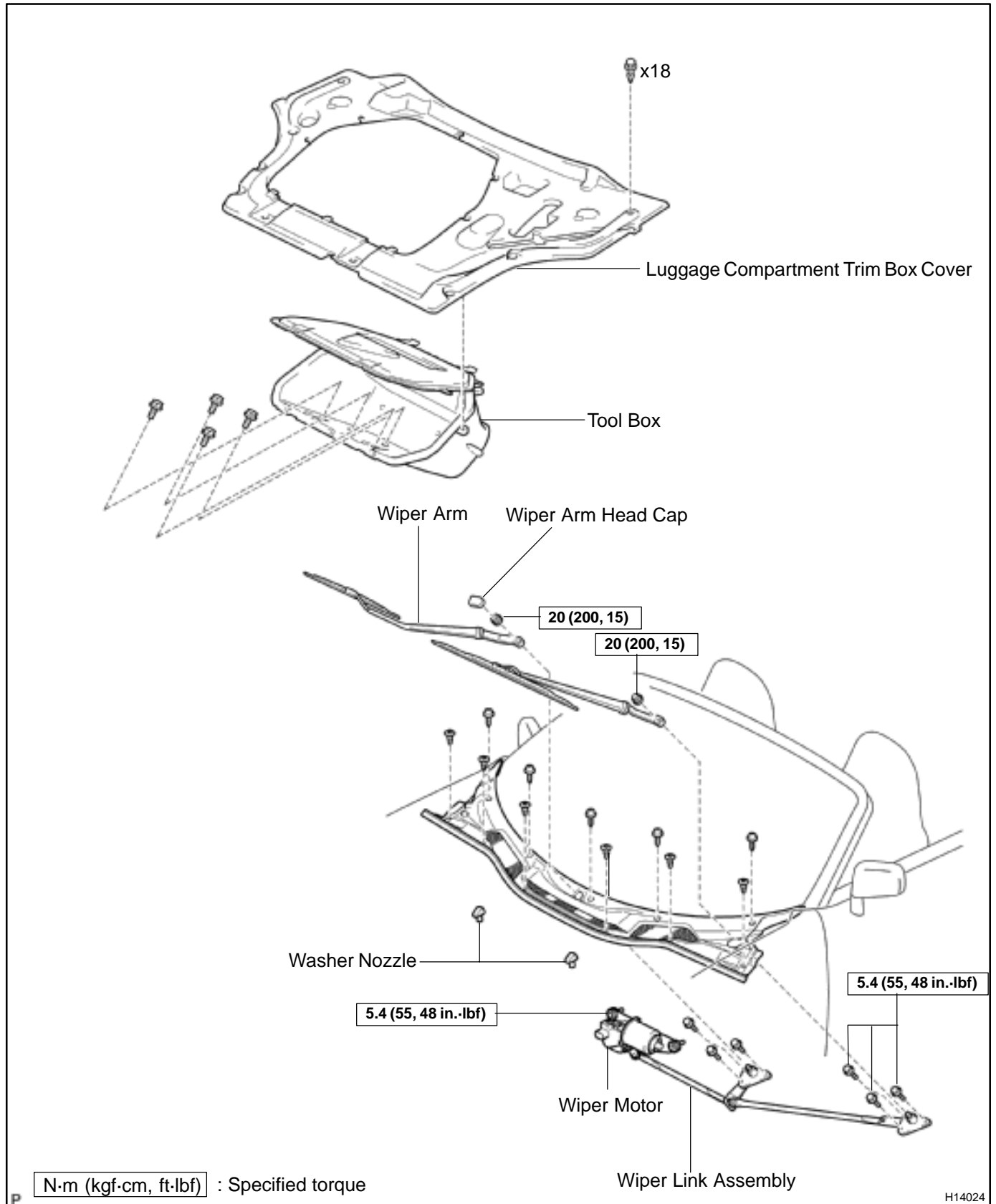
**Torque: 13 N·m (130 kgf-cm, 9 ft-lbf)**

## REASSEMBLY

Reassembly is in the reverse order of disassembly (See page [BO-12](#)).

# FRONT WIPER AND WASHER COMPONENTS

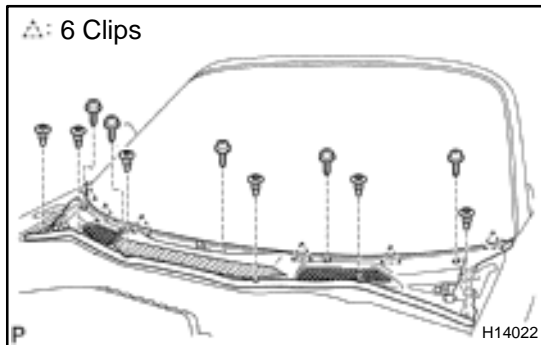
BO1DT-03



## REMOVAL

### 1. REMOVE WIPER ARMS

Remove the 2 wiper arm head caps, 2 nuts and 2 wiper arms.



### 2. REMOVE COWL TOP VENTILATOR LOUVER

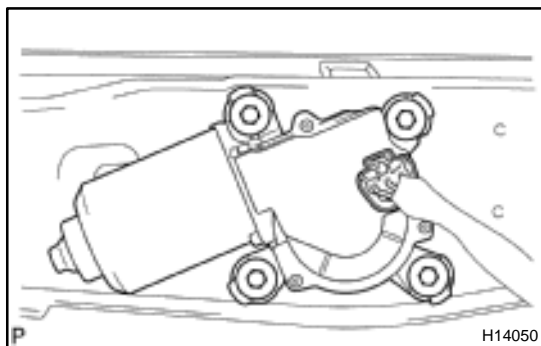
- Remove the 6 clips and 5 screws.
- Using a screwdriver, remove the cowl top ventilator louver.

#### HINT:

Tape the screwdriver tip before use.

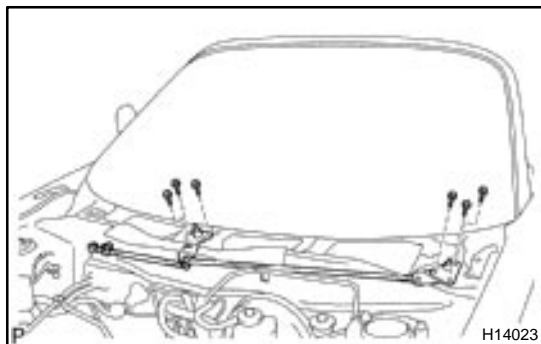
### 3. REMOVE LUGGAGE COMPARTMENT TRIM BOX COVER

### 4. REMOVE TOOL BOX



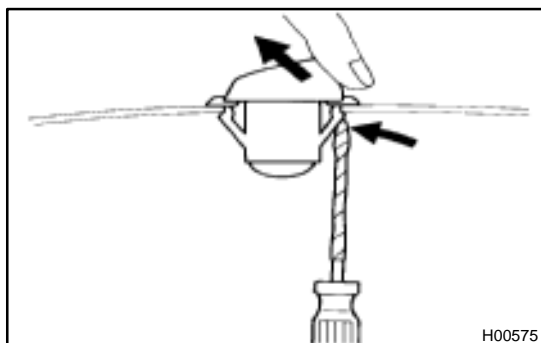
### 5. REMOVE WIPER MOTOR ASSEMBLY

- Disconnect the connector.
- Remove the 4 bolts and disconnect the wiper motor assembly.
- Disconnect the wiper link from the wiper motor assembly.



### 6. REMOVE WIPER LINK ASSEMBLY

Remove 6 bolts and wiper link.



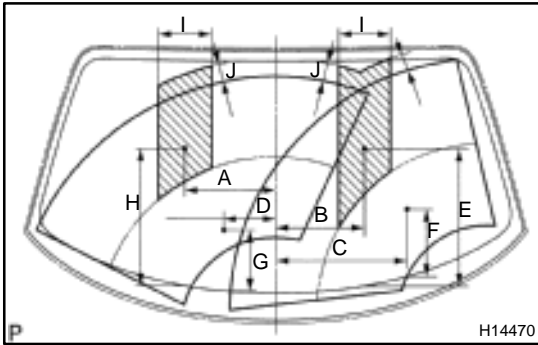
### 7. REMOVE WINDOW WASHER NOZZLE

- Remove the hose from the nozzle.
- Using a screwdriver, remove the nozzle.

#### HINT:

Tape the screwdriver tip before use.

- Employ the same manner described above to the other side.



## INSPECTION

### INSPECT WASHER NOZZLE

While operating the washer, check that points where the washer fluid from the nozzles hits the windshield and applies great amount on certain area is within the range indicated by the hatched line, the washer nozzle is operating normally.

**A: 263.2 mm (10.362 in.)**

**B: 256.7 mm (10.106 in.)**

**C: 379.2 mm (14.929 in.)**

**D: 150.4 mm (5.921 in.)**

**E: 405.2 mm (15.952 in.)**

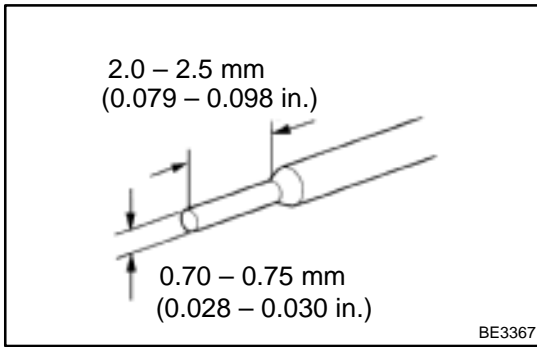
**F: 201.6 mm (7.937 in.)**

**G: 182.2 mm (7.173 in.)**

**H: 406.5 mm (16.003 in.)**

**I: 150.0 mm (5.905 in.)**

**J: 50 mm (1.968 in.)**



## ADJUSTMENT

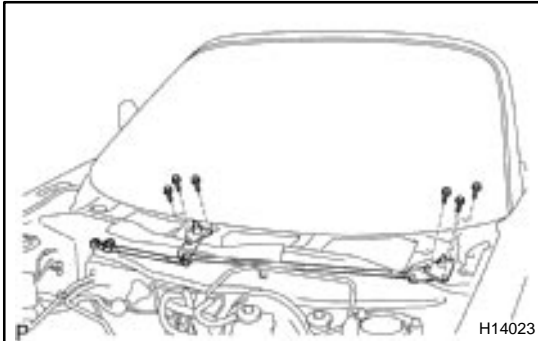
### ADJUST FRONT WASHER NOZZLE

Using a tool like the one shown in the illustration, change the direction of the nozzle hole to adjust the point where washer fluid hits the windshield.



## INSTALLATION

### 1. INSTALL WINDOW WASHER NOZZLE



### 2. INSTALL WIPER LINK ASSEMBLY

Install the wiper link with the 6 bolts.

**Torque: 5.4 N·m (55 kgf·cm, 48 in.-lbf)**

### 3. INSTALL WIPER MOTOR

(a) Install the wiper motor with the 4 bolts.

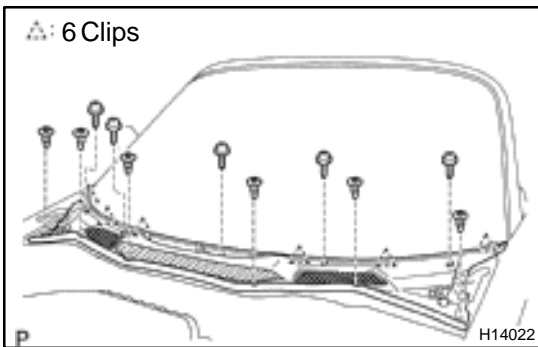
**Torque: 5.4 N·m (55 kgf·cm, 48 in.-lbf)**

(b) Connect the wiper link to the wiper motor.

(c) Connect the connector.

### 4. INSTALL LUGGAGE COMPARTMENT TRIM BOX COVER

### 5. INSTALL TOOL BOX



### 6. INSTALL COWL TOP VENTILATOR LOUVER

Install the cowl top ventilator louver with the 5 screws and 6 clips.

HINT:

Check that the 6 clips on the back side of the cowl top ventilator louver are surely fixed to the body.

### 7. INSTALL WIPER ARMS

(a) Operate the wipers once and turn the wiper switch OFF.

(b) Install the wiper arms and tighten the nuts by hand.

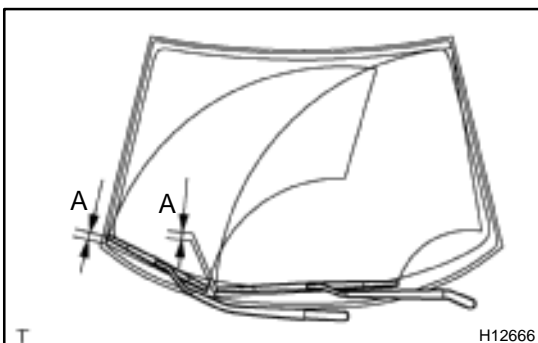
(c) Adjust the installation positions of the wiper arms to the positions as shown in the illustration.

**A: 25 – 40 mm (0.98 – 1.57 in.)**

(d) Torque the nuts.

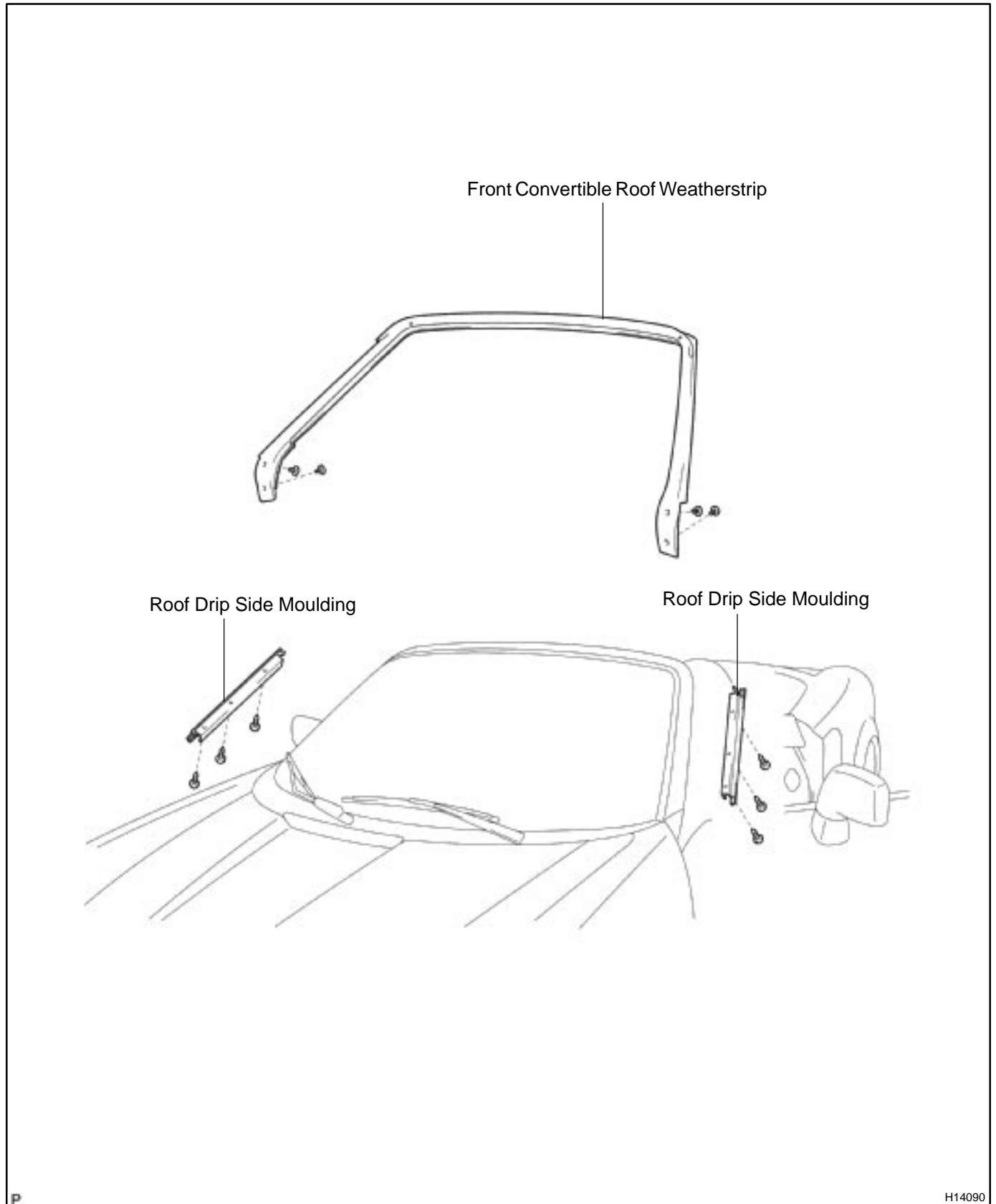
**Torque: 20 N·m (200 kgf·cm, 15 ft·lbf)**

(e) Install the wiper arm head cap.



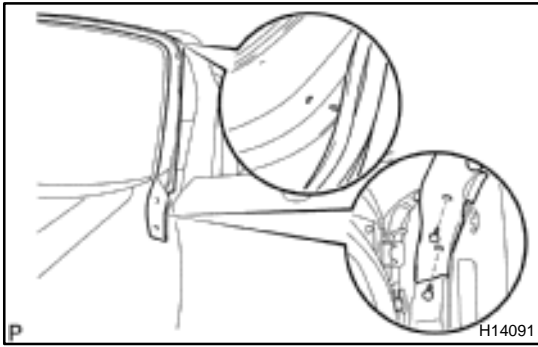
# ROOF DRIP SIDE MOULDING COMPONENTS

BO2NL-02



P

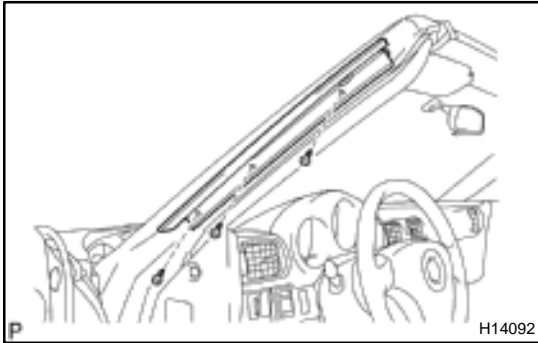
H14090



## REMOVAL

### 1. REMOVE FRONT CONVERTIBLE ROOF WEATHERSTRIP

- (a) Using a clip remover, remove the 6 clips.
- (b) Remove the front convertible roof weatherstrip.



### 2. REMOVE ROOF DRIP SIDE MOULDINGS

Remove the 3 screws and roof drip side moulding. Remove the LH and RH mouldings.

## INSTALLATION

### 1. CLEAN BODY MOUNTING SURFACE

- (a) Using a heat light, heat the body mounting surface to 40 – 60°C (104 – 140°F).

#### NOTICE:

**Do not heat the body excessively.**

- (b) Remove the adhesive tape from the body.
- (c) Wipe off stains with cleaner.

### 2. If reusing the moulding:

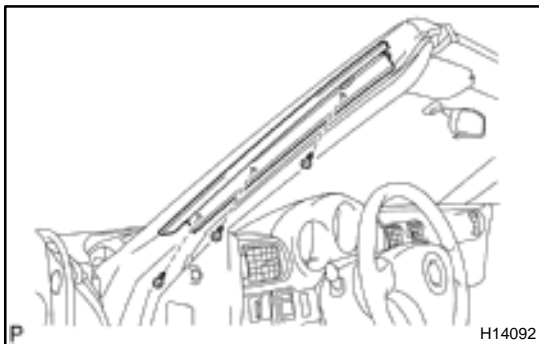
#### CLEAN MOULDING

- (a) Using a heat light, heat the moulding to 20 – 30°C (68 – 86°F).

#### NOTICE:

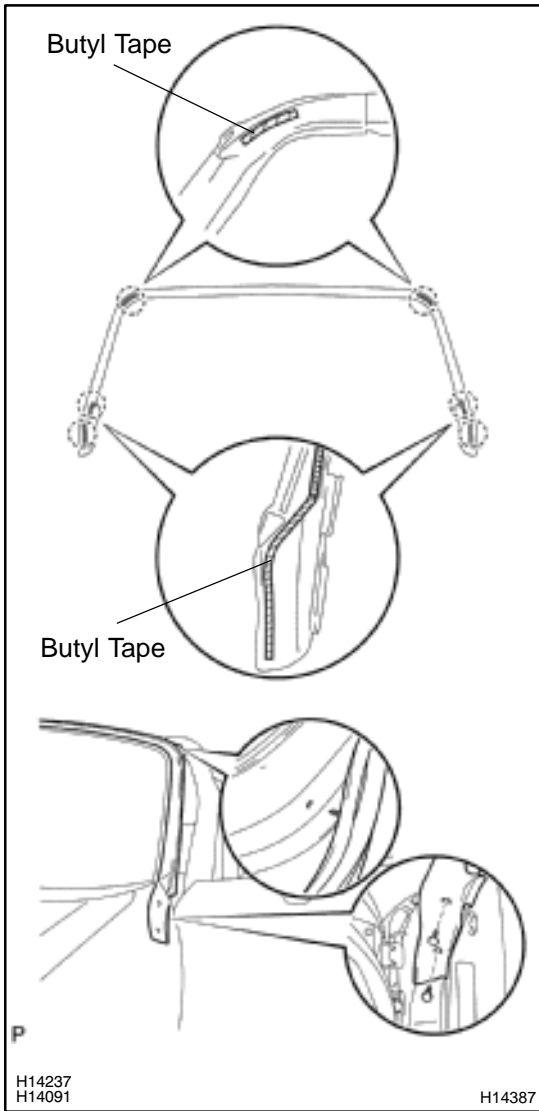
**Do not heat the moulding excessively.**

- (b) Remove the adhesive tape from the moulding.
- (c) Wipe off stains with cleaner.
- (d) Apply a new adhesive tape to the moulding.



### 3. INSTALL ROOF DRIP SIDE MOULDING

Install the roof drip side moulding with the 3 screws.

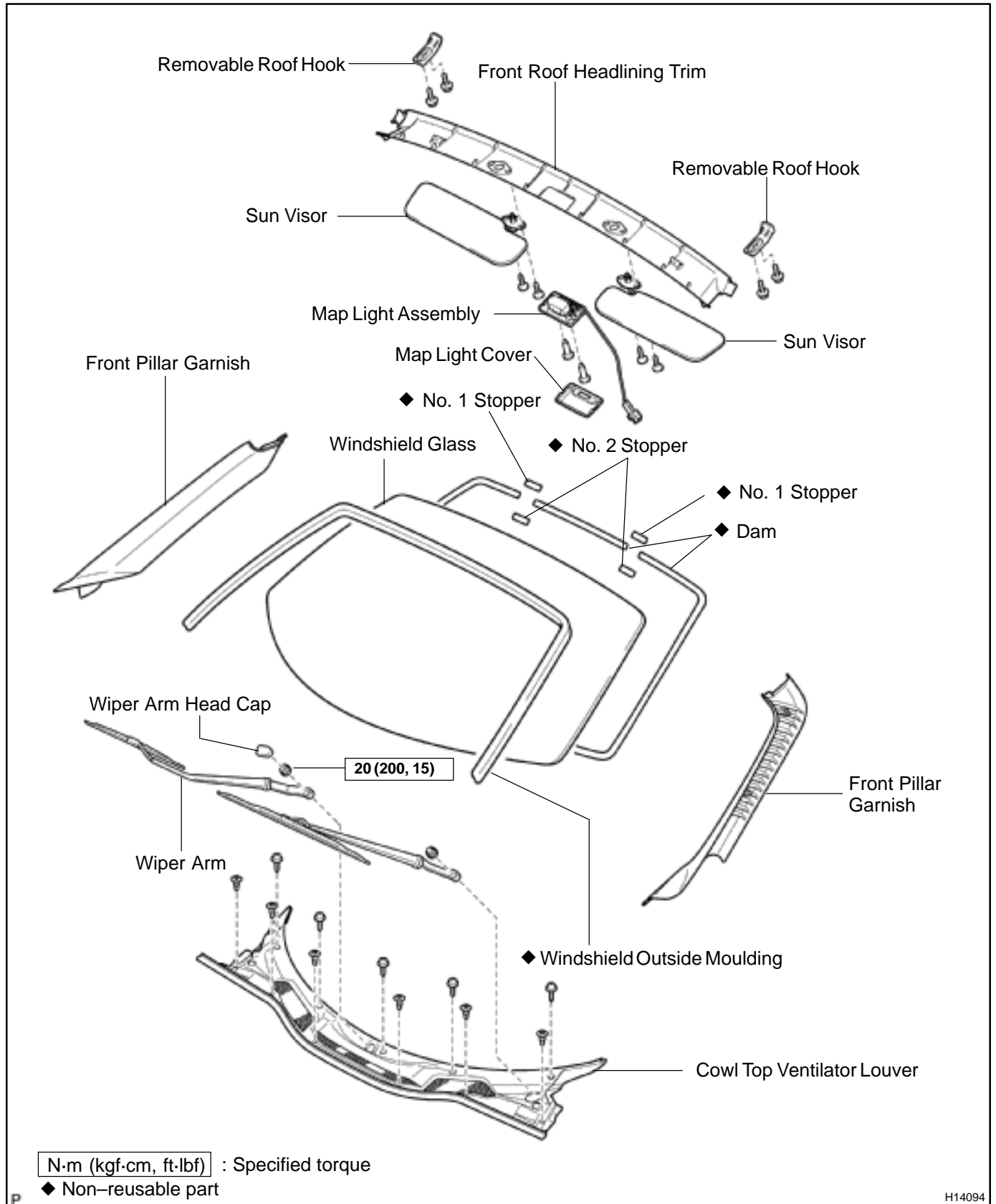


**4. INSTALL FRONT CONVERTIBLE ROOF WEATHERSTRIP**

Install the front convertible roof weatherstrip with the 6 clips as shown in the illustration.

# WINDSHIELD COMPONENTS

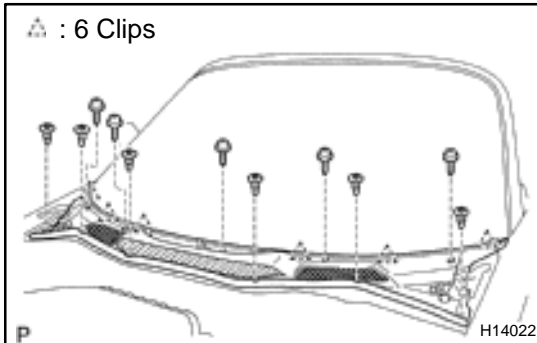
BO1E9-03



## REMOVAL

### 1. REMOVE WIPER ARMS

Remove the wiper arm head cap, 2 nuts and 2 wiper arms.



### 2. REMOVE COWL TOP VENTILATOR LOUVER

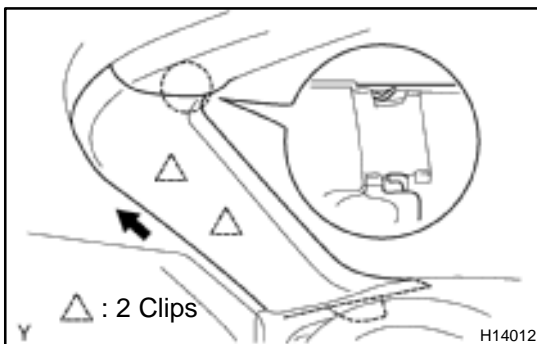
- Remove the 5 screws and 6 clips.
- Using a screwdriver, remove the cowl top ventilator louver.

HINT:

Tape the screwdriver tip before use.

### 3. REMOVE REMOVABLE ROOF HOOK

Remove the 2 screws and removable roof hook.



### 4. REMOVE FRONT PILLAR GARNISHS

- Using a screwdriver, remove the front pillar garnish.

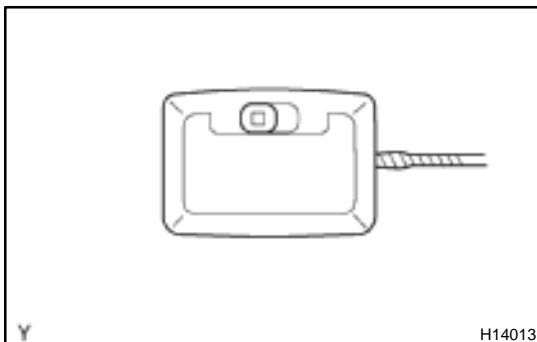
HINT:

Tape the screwdriver tip before use.

- Employ the same manner described above to the other side.

### 5. REMOVE SUN VISORS

Remove the 4 screws and sun visors.



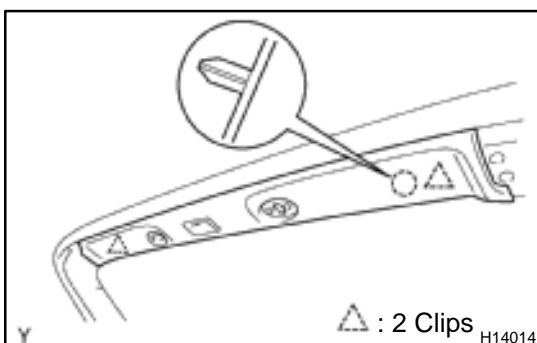
### 6. REMOVE MAP LIGHT ASSEMBLY

- Using a screwdriver, remove the map light cover.

HINT:

Tape the screwdriver tip before use.

- Remove the 2 screws and map light assembly, then disconnect the connector.



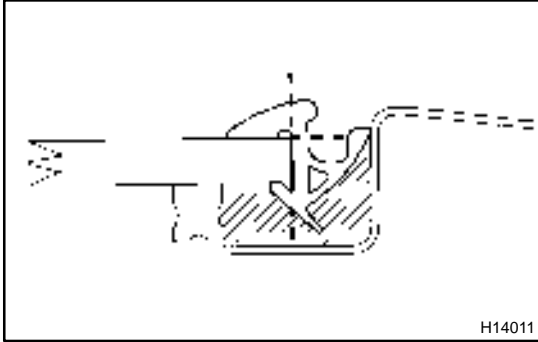
### 7. REMOVE FRONT ROOF HEADLINING TRIM

Using a screwdriver, remove the front roof headlining.

HINT:

Tape the screwdriver tip before use.

### 8. REMOVE INNER REAR VIEW MIRROR ASSEMBLY



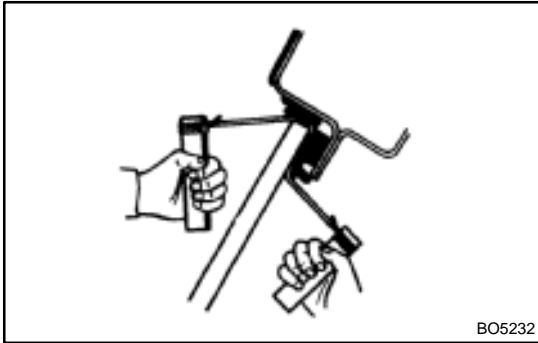
### 9. REMOVE WINDSHIELD OUTSIDE MOULDING

- (a) Using a knife, cut off the moulding as shown in the illustration.

**NOTICE:**

**Do not damage the body with the knife.**

- (b) Remove the remaining moulding.



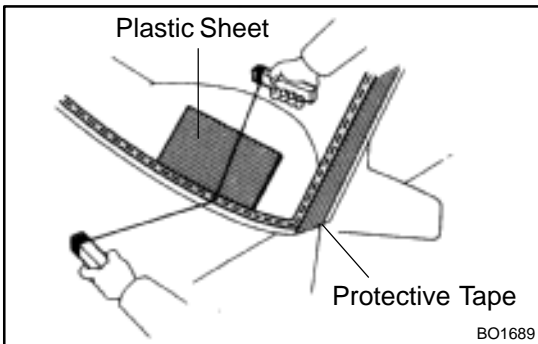
### 10. REMOVE WINDSHIELD GLASS

- (a) Insert a piano wire between the body and glass, let it pass through.

- (b) Tie both wire ends to wooden blocks or similar objects.

**NOTICE:**

**Be careful not to damage the wire harness.**



- (c) Cut the adhesive by pulling the piano wire around it.

**NOTICE:**

**When separating the glass, take care not to damage the paint and exterior ornaments. To prevent the safety pad from being scratched when removing the windshield, place a plastic sheet between the piano wire and safety pad.**

**HINT:**

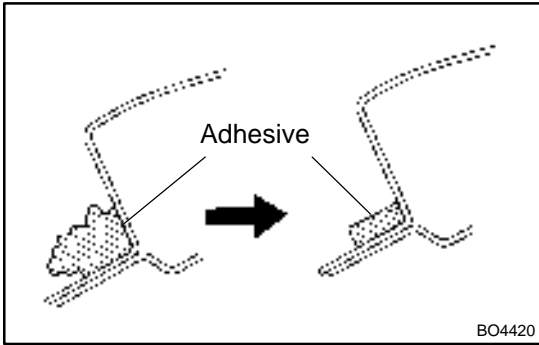
Apply protective tape to the outer surface to keep the surface from being scratched.

- (d) Remove the glass.

**NOTICE:**

**Leave the adhesive on the body as much as possible when cutting off the glass.**





## INSTALLATION

### 1. CLEAN AND SHAPE CONTACT SURFACE OF BODY

(a) Using a knife, cut away any rough areas on the body.

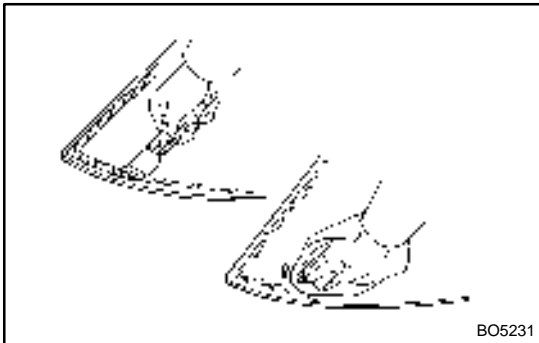
HINT:

Leave the adhesive on the body as much as possible.

(b) Clean the cut surface of the adhesive with a shop rag saturated in cleaner.

HINT:

Even if all the adhesive has been removed, clean the body.



### 2. CLEAN REMOVED GLASS

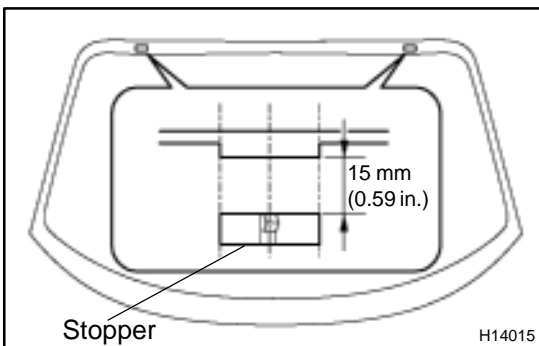
(a) Remove the damaged the No. 2 stoppers and dams.

(b) Using a scraper, remove the adhesive sticking to the glass.

(c) Clean the glass with cleaner.

NOTICE:

- Be careful not to damage the glass.
- Do not touch the glass face after cleaning it.

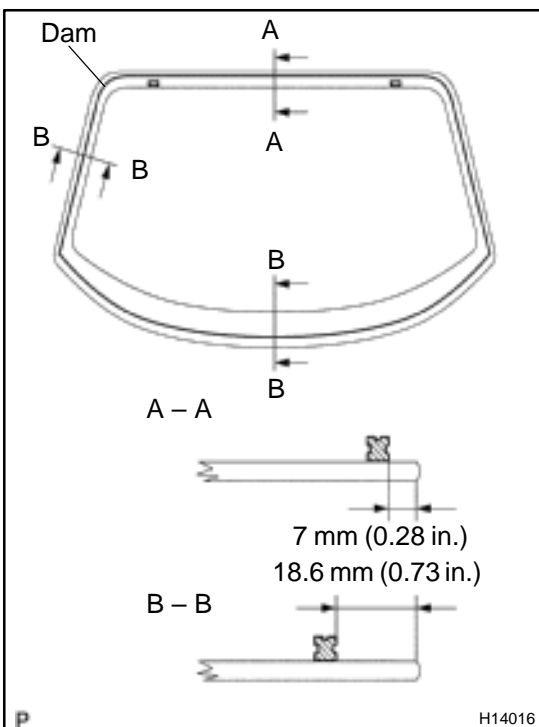


### 3. INSTALL NEW NO. 1 STOPPERS

Attach new stoppers to the glass so that the ceramic notches on the glass will align with the stoppers as shown in the illustration.

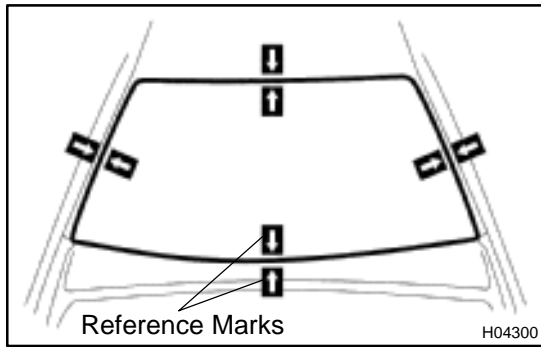
HINT:

Make sure that the stoppers are installed facing the correct direction.



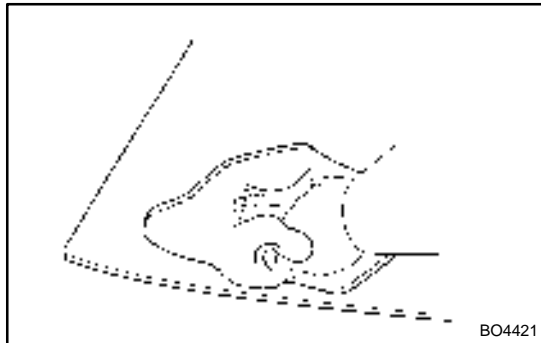
### 4. INSTALL NEW DAMS

Install new dams with double-stick tape as shown in the illustration.



### 5. POSITION GLASS

- Place the glass in the correct position.
- Check that all contacting parts of the glass rim are set perfectly even.
- Place reference marks on the glass and body.
- Remove the glass.

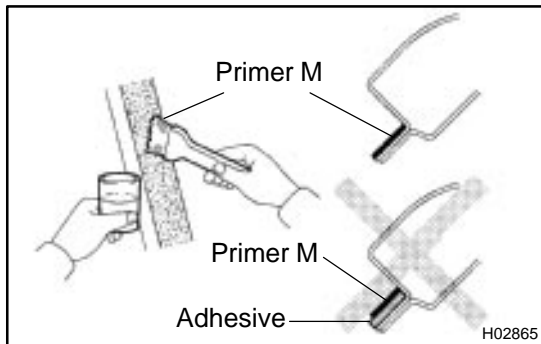


### 6. CLEAN CONTACT SURFACE OF GLASS

Using a cleaner, clean the contact surface which is black-colored area around the entire glass rim.

#### NOTICE:

**Do not touch the glass face after cleaning it.**

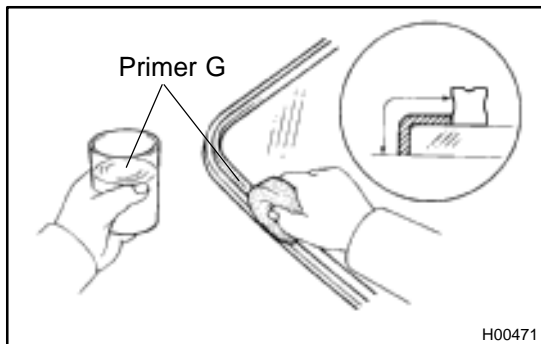


### 7. COAT CONTACT SURFACE OF BODY WITH PRIMER "M"

Using a brush, apply Primer M to the exposed part of the body on the vehicle side.

#### NOTICE:

- Allow 3 minutes or more to dry the primer coated surface.
- Do not apply Primer M to the adhesive.
- Do not keep any of the opened Primer M for later use.



### 8. COAT CONTACT SURFACE OF GLASS WITH PRIMER "G"

- Using a brush or sponge, coat the edge of the glass and the contact surface with Primer G as shown in the illustration.
- When the primer is applied inappropriately to the area other than the specified, wipe it off with a clean shop rag before the primer dries.

#### NOTICE:

- Allow 3 minutes or more to dry the primer coated surface.
- Do not keep any of the opened Primer G for later use.

### 9. APPLY ADHESIVE

- Cut off the tip of the cartridge nozzle.  
**Part No. 08850-00801 or equivalent**

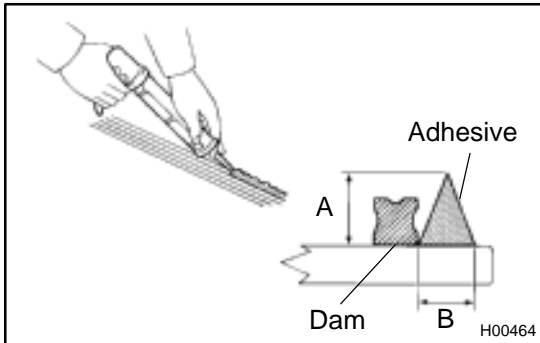
#### HINT:

After cutting off the tip, use all adhesive within the time described in the table on next page.

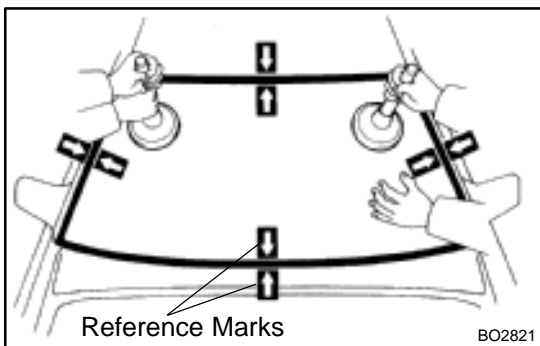
BODY - WINDSHIELD

| Temperature | Tackfree time |
|-------------|---------------|
| 35°C (95°F) | 15 minutes    |
| 20°C (68 F) | 100 minutes   |
| 5°C (41 °F) | 8 hours       |

(b) Load the cartridge into the sealer gun.



(c) Coat the glass with adhesive as shown in the illustration.  
**A: 12.5 mm (0.492 in.)**  
**B: 8.0 mm (0.315 in.)**



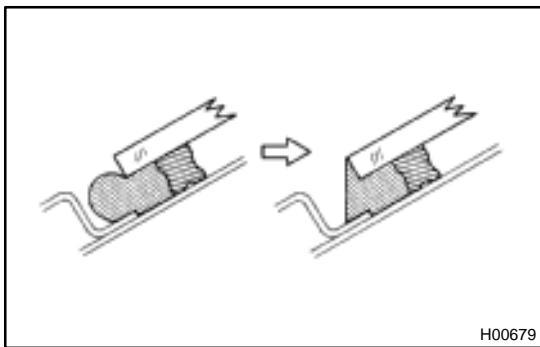
**10. INSTALL WINDSHIELD GLASS AND MOULDING**

(a) Install the glass, aligning the reference marks using a suction rubber.

HINT:

Check to see that the stoppers are attached to the body correctly.

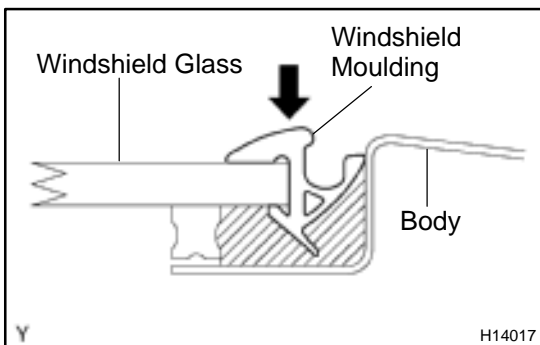
(b) Lightly press the glass front surface for close contact.



(c) Correct insufficient or protruded adhesive agent using a spatula.

HINT:

Apply the adhesive agent up to the windshield glass edge.



(d) Install a new windshield moulding to the windshield glass before the adhesive agent hardens.

HINT:

Install the moulding, aligning the center of moulding with the center of the body.

(e) Remove any excessive adhesive agent before it hardens.

(f) Hold the glass and moulding in place securely with a protective tape or equivalent until the adhesive hardens.

**NOTICE:**

Take care not to drive the vehicle during the time described in the table below.

| Temperature | Minimum time prior to driving the vehicle |
|-------------|---|
| 35°C (95°F) | 1.5 hours                                 |
| 20°C (68°F) | 5 hours                                   |
| 5°C (41°F)  | 24 hours                                  |

**11. INSPECT FOR LEAK AND REPAIR****NOTICE:**

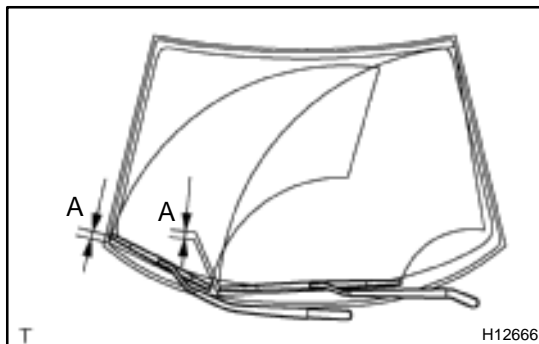
Conduct a leak test after the hardening time has elapsed.

**12. INSTALL INNER REAR VIEW MIRROR****13. INSTALL FRONT ROOF HEADLINING TRIM****14. INSTALL MAP LIGHT ASSEMBLY****15. INSTALL SUN VISORS****16. INSTALL FRONT PILLAR GARNISHS****17. INSTALL COWL TOP VENTILATOR LOUVER****HINT:**

Check that the 6 clips on the back side of the cowl louver are surely fixed to the body.

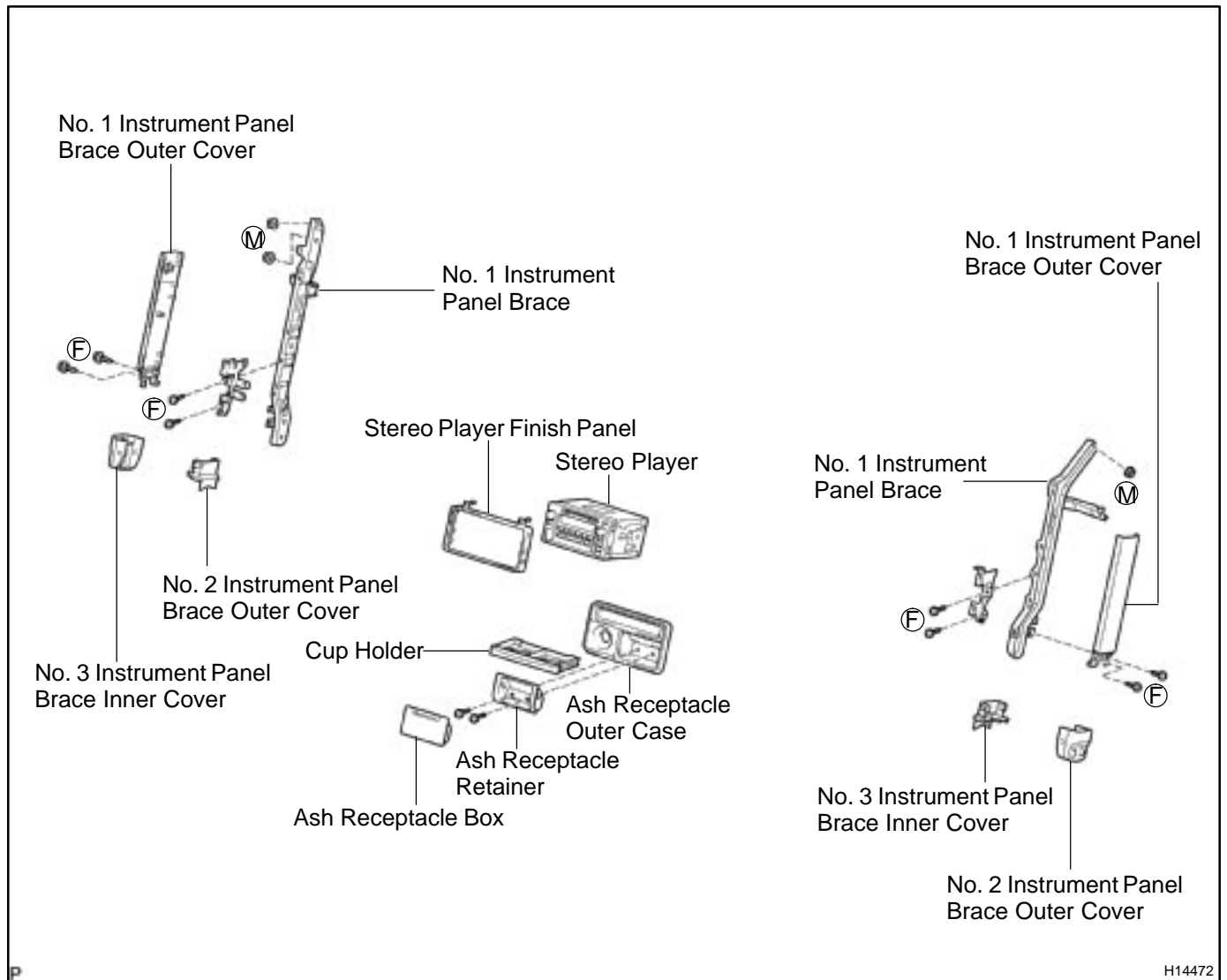
**18. INSTALL WIPER ARMS**

- (a) Operate the wiper motor once and turn the wiper switch OFF.
- (b) Install the wiper arms and tighten the nuts by hand.

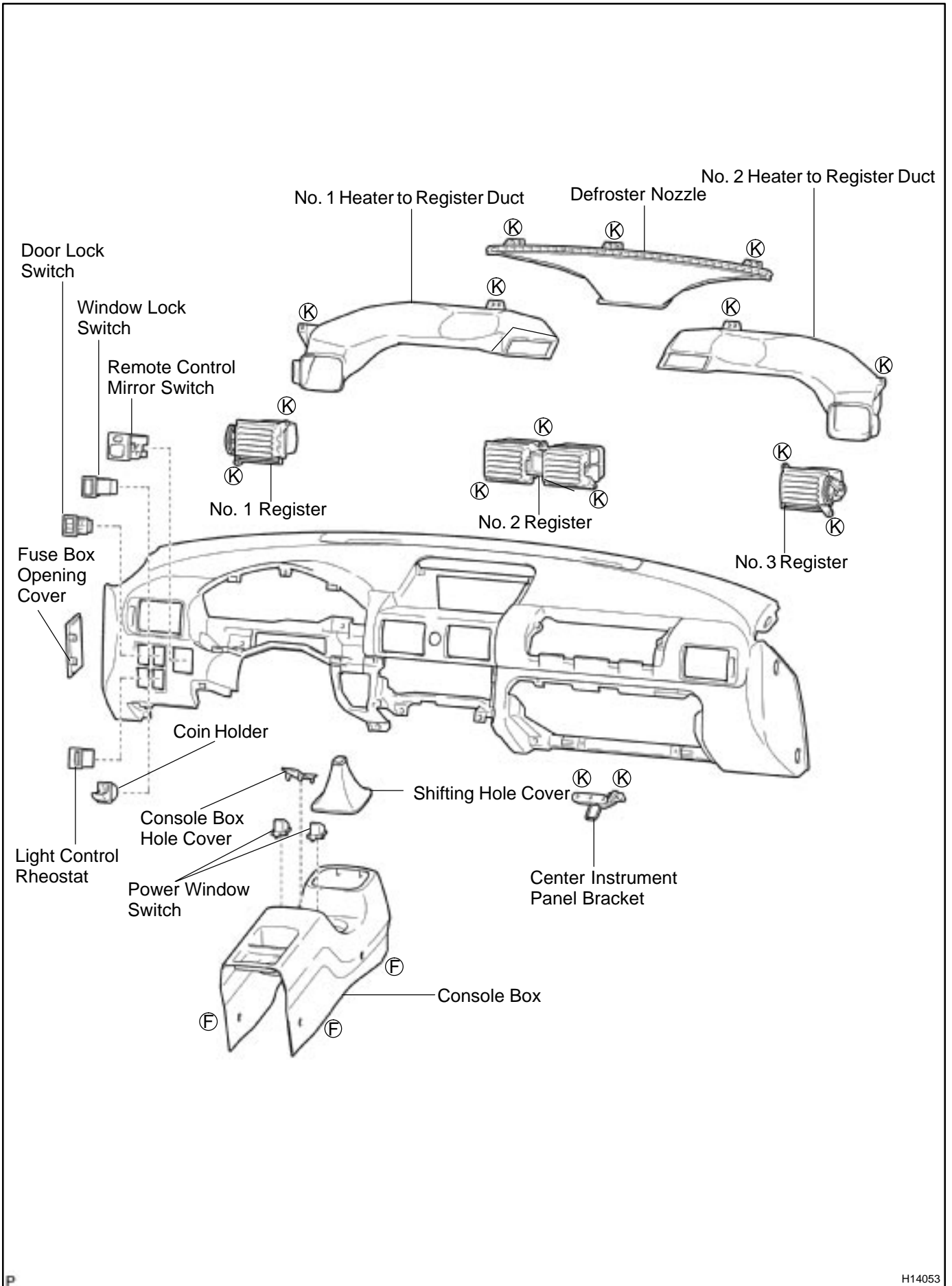


- (c) Adjust the installation positions A of the wiper arms to the positions as shown in the illustration.  
**A: 25 – 40 mm (0.98 – 1.57 in.)**
- (d) Torque the nuts.  
**Torque: 20 N·m (200 kgf·cm, 15 ft·lbf)**
- (e) Install the wiper arm head cap.



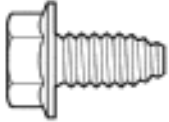
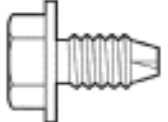

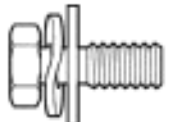
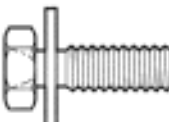
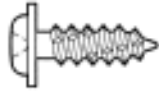
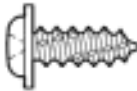

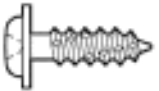
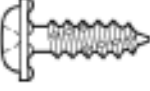
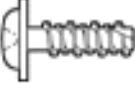
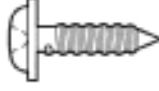





BODY - INSTRUMENT PANEL



HINT:

Screw shapes and sizes are indicated in the table below. The codes ("A" - "O") correspond to those indicated on the previous page.

|   |   |  |   | mm (in.)  |  |
|---|---|--|---|---|--|
|   | Shape   | Size   |   | Shape   | Size   |
| A |      | $\varnothing = 8$<br>(0.32)<br>L = 16<br>(0.63)      | B |      | $\varnothing = 8$<br>(0.32)<br>L = 15<br>(0.59)      |
| C |    | $\varnothing = 6$<br>(0.24)<br>L = 22<br>(0.87)      | D |      | $\varnothing = 6$<br>(0.24)<br>L = 16<br>(0.63)      |
| E |      | $\varnothing = 6$<br>(0.24)<br>L = 18<br>(0.71)      | F |    | $\varnothing = 5.22$<br>(0.2055)<br>L = 16<br>(0.63) |
| G |     | $\varnothing = 5.22$<br>(0.2055)<br>L = 16<br>(0.63) | H |     | $\varnothing = 5$<br>(0.20)<br>L = 18<br>(0.71)      |
| I |   | $\varnothing = 5$<br>(0.20)<br>L = 16<br>(0.63)      | J |    | $\varnothing = 5$<br>(0.20)<br>L = 16<br>(0.63)      |
| K |    | $\varnothing = 5$<br>(0.20)<br>L = 14<br>(0.55)      | L |  | $\varnothing = 4$<br>(0.16)<br>L = 16<br>(0.63)      |
| M |    | $\varnothing = 8$<br>(0.32)                          | N |    | $\varnothing = 6$<br>(0.24)                          |
| O |  | $\varnothing = 6$<br>(0.24)<br>L = 20<br>(0.78)      |   |   |  |

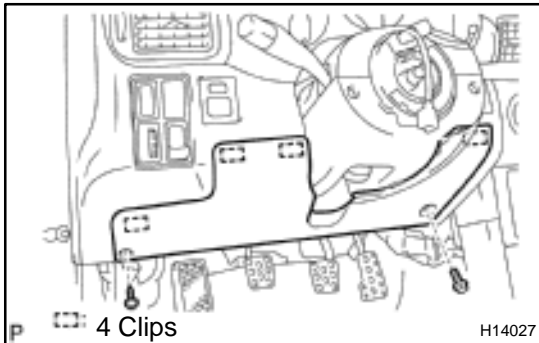
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## REMOVAL

1. REMOVE STEERING WHEEL PAD AND STEERING WHEEL (See page [SR-10](#))
2. REMOVE DOOR SCUFF PLATES
3. REMOVE COWL SIDE TRIMS



### 4. REMOVE NO. 1 LOWER FINISH PANEL

- (a) Remove the bolt, screw and DLC3.
- (b) Using a screwdriver, remove the No. 1 lower finish panel.

HINT:

Tape the screwdriver tip before use.

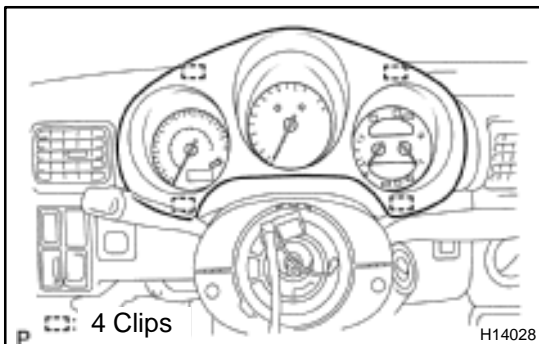
### 5. REMOVE INSTRUMENT PANEL LOWER PAD INSERT

### 6. REMOVE COLUMN COVERS

Remove 3 screws and upper and lower column covers.

### 7. REMOVE SPIRAL CABLE (See page [SR-10](#))

8. REMOVE WIPER AND WASHER SWITCH AND LIGHT CONTROL SWITCH AND HEADLIGHT DIMMER SWITCH (See page [SR-10](#))

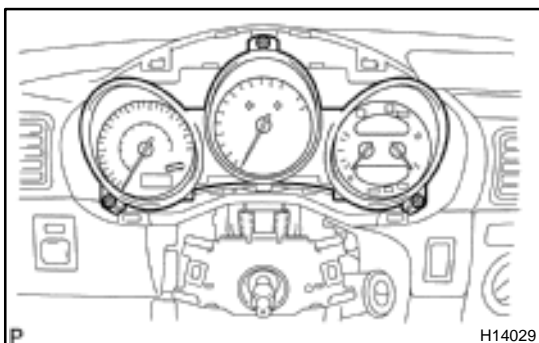


### 9. REMOVE INSTRUMENT CLUSTER FINISH PANEL

Using a screwdriver, remove the cluster finish panel.

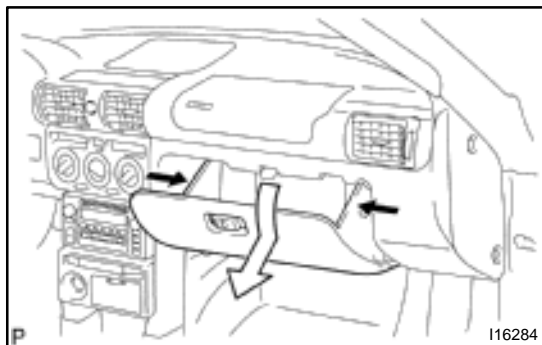
HINT:

Tape the screwdriver tip before use.

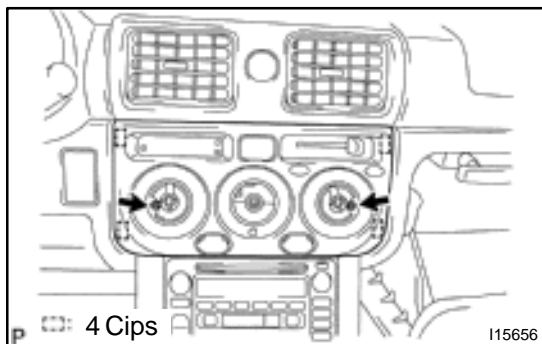


### 10. REMOVE COMBINATION METER

- (a) Remove the 3 screws and combination meter.
- (b) Disconnect the connectors.



11. **REMOVE GLOVE COMPARTMENT DOOR**
  - (a) Open the glove compartment door.
  - (b) Push both sides inward and pull out the glove compartment door.
12. **REMOVE PASSENGER AIRBAG ASSEMBLY**  
(See page RS-26)
13. **REMOVE PASSENGER AIRBAG MANUAL ON-OFF SWITCH** (See page RS-26)
14. **REMOVE HOOD RELEASE LEVER**

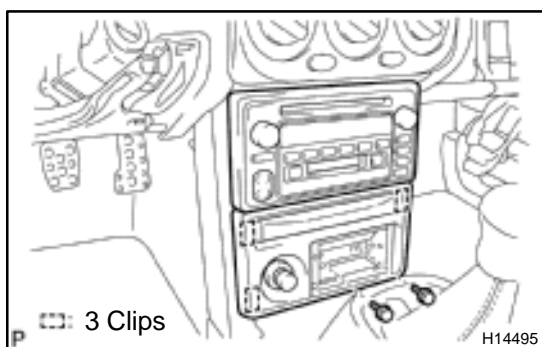


15. **REMOVE CENTER INSTRUMENT CLUSTER FINISH PANEL**
  - (a) Remove the 4 knobs.
  - (b) Remove the 2 screws.
  - (c) Using a screwdriver, remove the center cluster finish panel.

**HINT:**

Tape the screwdriver tip before use.

- (d) Disconnect the clock connector from the clock.



16. **REMOVE ASH RECEPTACLE OUTER CASE AND STEREO PLAYER FINISH PANEL**
  - (a) Remove the ash receptacle box.
  - (b) Remove the 2 bolts ash receptacle retainer.
  - (c) Using a screwdriver, remove the ash receptacle outer case.

**HINT:**

Tape the screwdriver tip before use.

- (d) Using a screwdriver, remove the stereo finish panel.

**HINT:**

Tape the screwdriver tip before use.



17. **REMOVE NO. 1 AND NO. 2 INSTRUMENT PANEL BRACE OUTER COVERS AND NO.3 INSTRUMENT PANEL BRACE INNER COVERS**
  - (a) Using a screwdriver, remove the No. 2 instrument panel brace outer covers and No. 3 instrument panel brace inner covers.

**HINT:**

Tape the screwdriver tip before use.

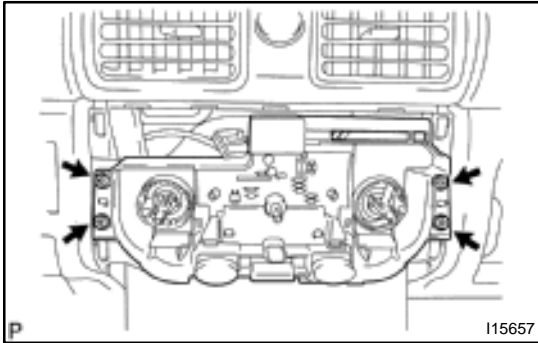
- (b) Remove the 4 screws and No. 1 instrument panel brace outer covers.
- (c) Remove the 4 screws and stereo.

### 18. DISCONNECT HEATER CONTROL CABLES

(See page [AC-83](#))

#### NOTICE:

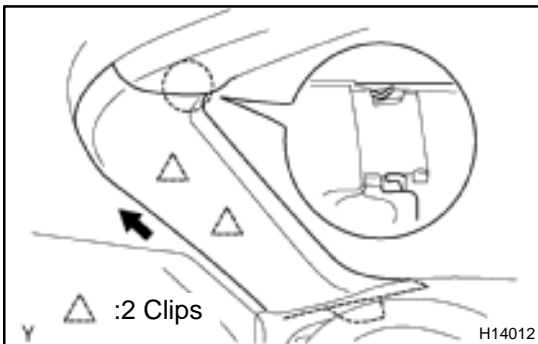
When the air mix damper control cables are disconnected, be careful not to bend the cables.



### 19. REMOVE HEATER CONTROL ASSEMBLY

- (a) Remove the 4 screws and control assembly.
- (b) Disconnect the 2 connectors.

### 20. REMOVE STEERING COLUMN (See page [SR-10](#))



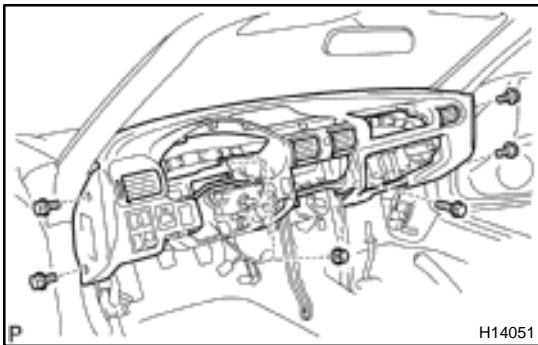
### 21. REMOVE FRONT PILLAR GARNISHS

- (a) Remove the 2 screws and removable roof hook.
- (b) Using a screwdriver, remove the front pillar garnish.

#### HINT:

Tape the screwdriver tip before use.

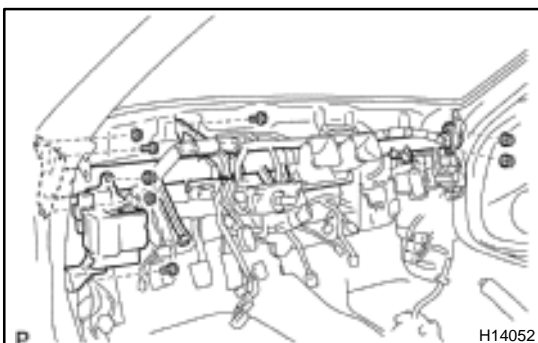
- (c) Employ the same manner described above to the other side.



### 22. REMOVE INSTRUMENT PANEL

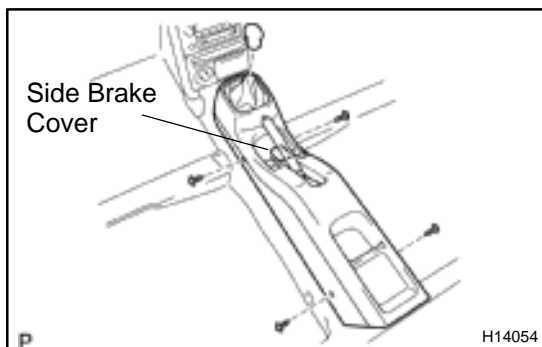
- (a) Remove the nut, screw and No. 1 instrument panel lower mount bracket.
- (b) Remove the 2 screws and center instrument panel bracket.
- (c) Disconnect the connectors.
- (d) Disengage the wire harness clamps.
- (e) Remove the 5 bolts, nut, screw and instrument panel.

### 23. REMOVE NO. 1 AND NO. 2 BRACES



### 24. REMOVE REINFORCEMENT

- (a) Disconnect the connector.
- (b) Disengage the wire harness clamps.
- (c) Remove the 3 bolts, 5 nuts and reinforcement.

**25. REMOVE CONSOLE BOX**

- (a) Remove the seat (See page [BO-49](#)).
- (b) Remove the shift knob.
- (c) Remove the side brake cover.
- (d) Remove the 4 screws and console box.
- (e) Disconnect the power window switch connector.

## DISASSEMBLY

1. REMOVE INSTRUMENT PANEL WIRE
2. REMOVE NO. 1 HEATER TO REGISTER DUCT
3. REMOVE NO. 2 HEATER TO REGISTER DUCT
4. REMOVE NO. 3 HEATER TO REGISTER DUCT
5. REMOVE NO. 1 INSTRUMENT PANEL RESISTER
6. REMOVE NO. 2 INSTRUMENT PANEL RESISTER
7. REMOVE NO. 3 INSTRUMENT PANEL RESISTER
8. REMOVE LIGHT CONTROL RHEOSTAT
9. REMOVE WINDOW LOCK SWITCH
10. REMOVE CONTROL MIRROR SWITCH

## REASSEMBLY

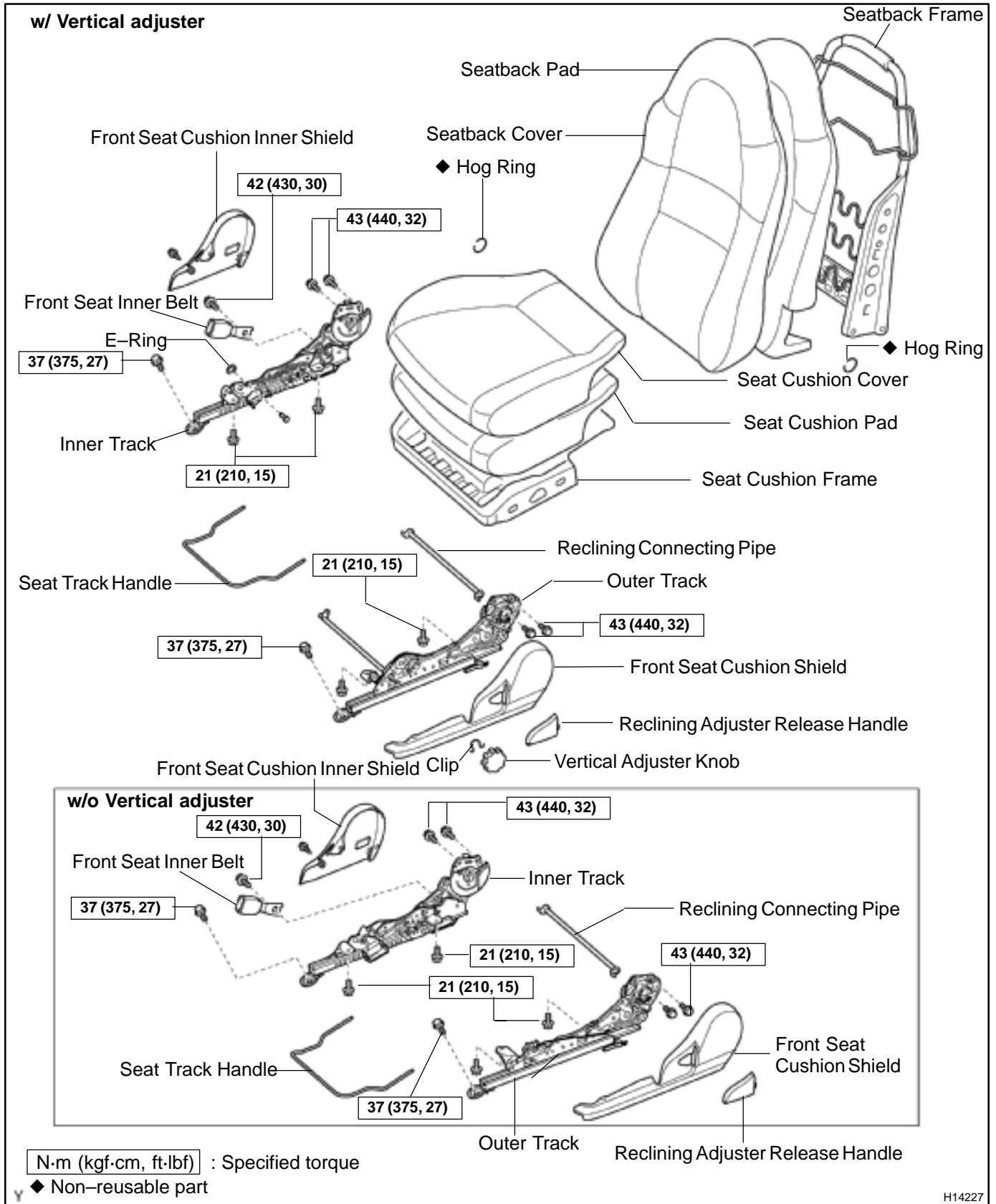
Reassembly is in the reverse order of disassembly (See page [BO-45](#)).

# INSTALLATION

Installation is in the reverse order of removal (See page [BO-41](#)).

# FRONT SEAT COMPONENTS

BO1F6-03



H14227



## REMOVAL

### REMOVE FRONT SEAT

- (a) Remove the 4 bolts.
- (b) Disconnect the connectors.
- (c) Remove the front seat.

#### **NOTICE:**

**Be careful not to damage the body.**

## DISASSEMBLY

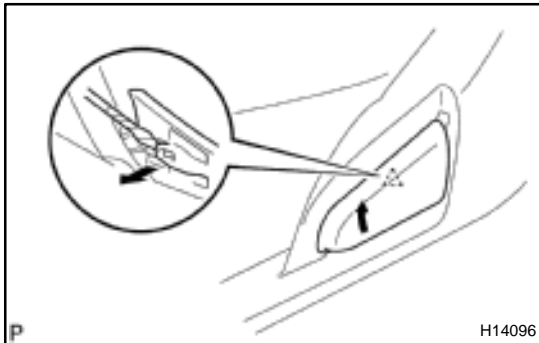
### 1. w/ Vertical adjuster:

#### REMOVE VERTICAL ADJUSTER KNOB

Using a screwdriver, remove the clip and vertical adjuster knob.

HINT:

Tape the screwdriver tip before use.

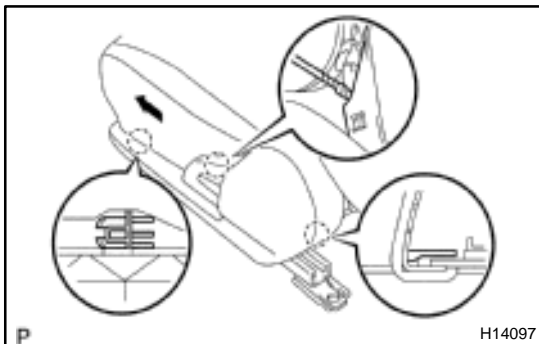


### 2. REMOVE RECLINING ADJUSTER RELEASE HANDLE

Using a screwdriver, remove the reclining adjuster release handle.

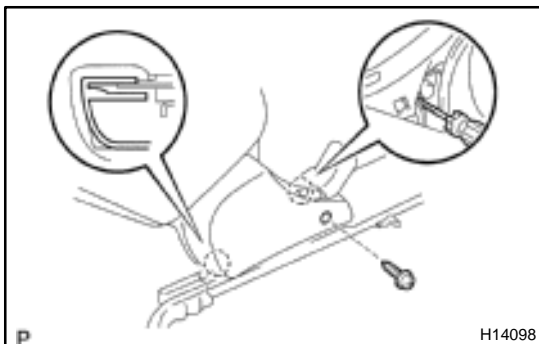
HINT:

Tape the screwdriver tip before use.



### 3. REMOVE FRONT SEAT CUSHION SHIELD

Remove the front seat cushion shield as shown in the illustration.



### 4. REMOVE FRONT SEAT CUSHION INNER SHIELD

Remove the screw and front seat cushion inner shield as shown in the illustration.

### 5. REMOVE FRONT SEAT INNER BELT

- Cut off the clamp and connector.
- Remove the bolt and front seat inner belt.

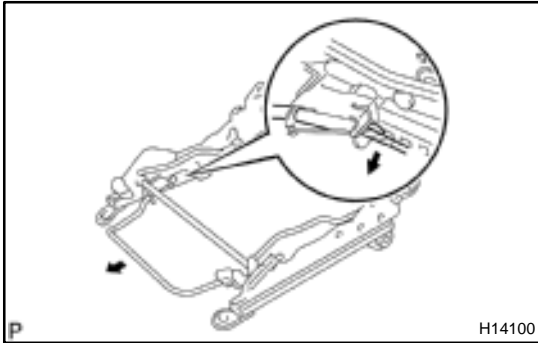
### 6. REMOVE SEAT CUSHION ASSEMBLY

- Remove the 4 bolts and seat cushion assembly.
- Remove the hog rings.
- Disengage that seat cushion cover hooks and remove the seat cushion frame.
- Remove the hog rings between the seat cushion cover and seat cushion pad.
- Remove the seat cushion cover from the seat cushion pad.

### 7. REMOVE SEATBACK ASSEMBLY

- Remove the hog rings.
- Turn over the seatback cover.
- Remove the 4 bolts and seatback assembly

- (d) Remove the hog rings between the seat back cover and the seatback pad.
- (e) Remove the seatback cover and the seatback pad from the seatback frame.

**8. REMOVE SEAT TRACK HANDLE**

Using a screwdriver, remove the seat track handle.

HINT:

Tape the screwdriver tip before use.

**9. REMOVE RECLINING CONNECTING PIPE****10. DISASSEMBLE OUTER AND INNER TRACK**

- (a) Using a screwdriver, remove the E-ring.
- (b) Disassemble the outer track and inner track.

## INSPECTION

### INSPECT RECLINING LOCK POSITION AND SLIDING LOCK POSITION SLIPPING OFF

(a) When reclining the seat, inspect that the outer and inner recliners are released at the same time.

HINT:

When the reclining lock position slips off, disassemble the seat to adjust the position.

(b) When sliding the seat, inspect that the outer and inner tracks are locked at the same time.

HINT:

When sliding lock positions slip off, loosen the bolts to adjust the position.

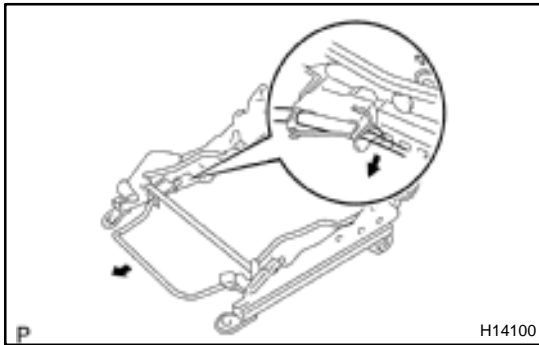
(c) After adjusting the position, tighten the bolt.

## REASSEMBLY

### 1. ASSEMBLE OUTER TRACK AND INNER TRACK

Assemble the outer track and inner track with a new E-ring.

### 2. INSTALL SEAT TRACK HANDLE

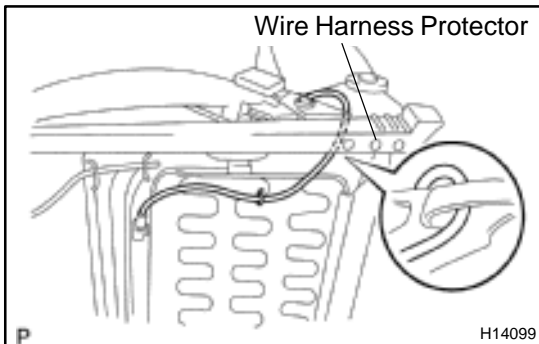


### 3. INSTALL RECLINING CONNECTING PIPE

- Adjust the reclining lock positions of the seat adjusters.
- Slide the seat adjusters to the most front position.
- Place the adjusters on a spacer to adjust the seat rail in parallel and install the connecting pipe.

#### HINT:

When installing the connecting pipe while raising up the adjusters, the lock position adjusted in step-(a) may become detached. When this happens, locking cannot be done properly.



### 4. INSTALL FRONT SEAT INNER BELT

- Pass the wire harness of the front seat inner belt through the wire harness protector of the seat cushion assembly and install the front seat inner belt.

**Torque: 42 N·m (430 kgf-cm, 30 ft-lbf)**

- Install the front seat inner belt wire harness to the seat cushion frame.

### 5. INSTALL SEATBACK COVER

- Install the seatback pad to the seatback frame.
- Install the seatback cover to the seatback pad with new hog rings.

#### HINT:

When installing the hog rings, take care not to have wrinkles on the cover as much as possible.

### 6. INSTALL SEAT CUSHION ASSEMBLY

- Install the seat cushion cover to the seat cushion pad with new hog rings.

#### HINT:

When installing the hog rings, take care not to have wrinkles on the cover as much as possible.

- Install the seat cushion frame to the seat cushion cover with pad.
- Engage the seat cushion hooks and install new hog rings.

#### HINT:

When installing the hog rings, take care not to have wrinkles on the cover as much as possible.

- Install the seat cushion assembly with the 4 bolts.

**Torque: 21 N·m (210 kgf-cm, 15 ft-lbf)**

**7. INSTALL SEAT BACK ASSEMBLY**

- (a) Install the seatback assembly with the 4 bolts.  
**Torque: 43 N·m (440 kgf-cm, 32 ft-lbf)**
- (b) Pull down the seatback cover closed.
- (c) Install new hog rings.

**HINT:**

When installing the hog rings, take care not to twist them as much as possible.

**8. INSTALL FRONT SEAT CUSHION INNER SHIELD****9. INSTALL FRONT SEAT CUSHION SHIELD****10. INSTALL RECLINING ADJUSTER RELEASE HANDLE****11. w/ Vertical adjuster:****INSTALL VERTICAL ADJUSTER KNOB**

## INSTALLATION

### INSTALL FRONT SEAT

- (a) Mount the front seat to the vehicle.

**NOTICE:**

**Be careful not to damage the body.**

- (b) Connect the connectors.  
(c) Slide the front seat to the front most position.  
(d) Tighten the bolts on the rear side temporarily, starting from the bolt on the inner side, then tighten them completely.

**Torque: 37 N·m (375 kgf·cm, 27 ft·lbf)**

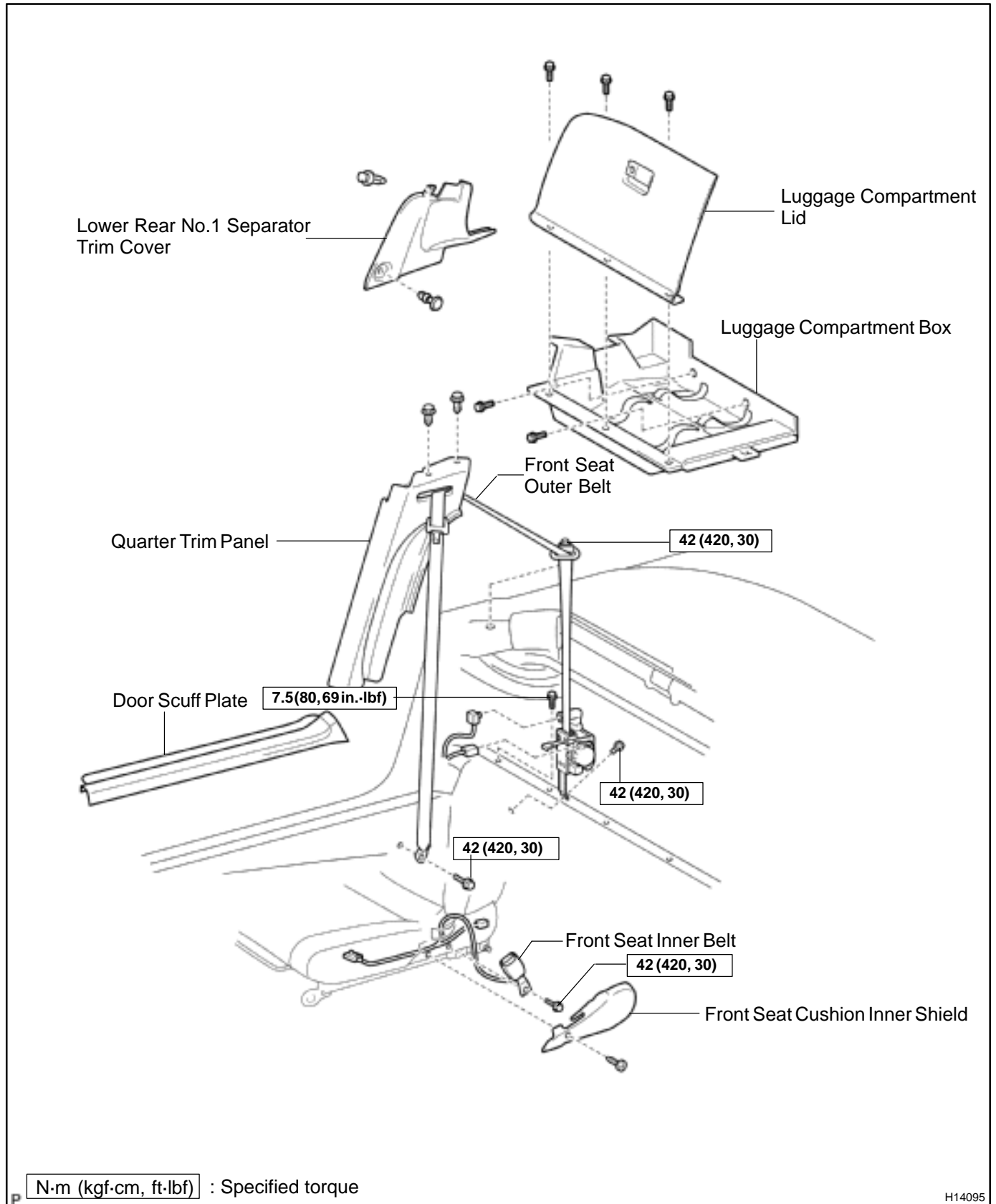
- (e) Slide the seat to the rear most position to install the bolts on the front side.

**Torque: 37 N·m (375 kgf·cm, 27 ft·lbf)**

- (f) Install the seat track covers.

# SEAT BELT COMPONENTS

BO1FH-03





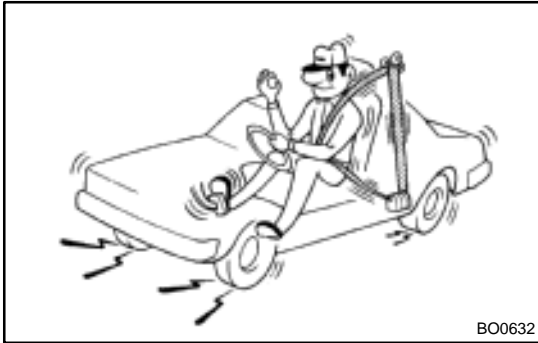
## INSPECTION

### CAUTION:

Replace the seat belt assembly (outer belt, inner belt, bolts and nuts) if it has been used in a severe impact. The entire assembly should be replaced even if damage is not obvious.

#### 1. RUNNING TEST (IN SAFE AREA)

- (a) Fasten the front seat belts.
- (b) Drive the car at 16 km/h (10 mph) and slam on the brakes. Check that the belt locks and cannot be extended at this time.

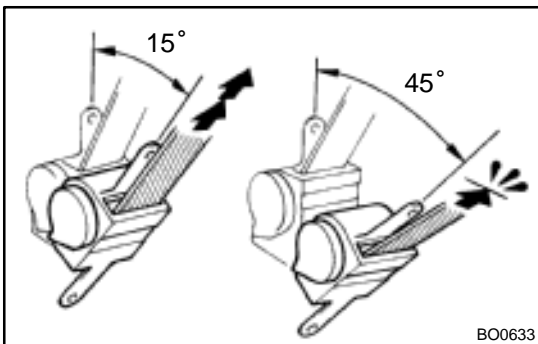


### HINT:

Conduct this test in a safe area. If the belt does not lock, remove the belt mechanism assembly and conduct the following static check. Also, whenever installing a new belt assembly, verify the proper operation before installation.

#### 2. Driver's seat belt (ELR): STATIC TEST

- (a) Make sure that the belt locks when pulled out quickly.
- (b) Remove the locking retractor assembly.
- (c) Tilt the retractor slowly.



- (d) Make sure that the belt can be pulled out at a tilt of 15 degrees or less, and cannot be pulled out over 45 degrees of tilt.

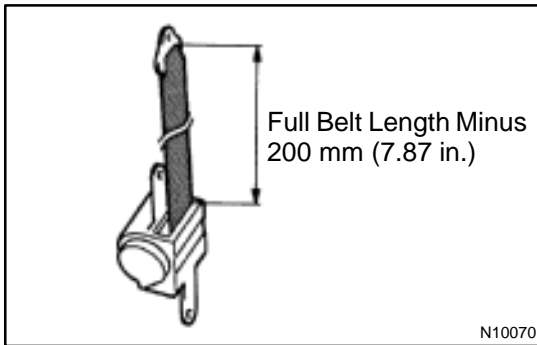
If a problem is found, replace the assembly.

#### 3. Passenger's seat belt (ELR/ALR): STATIC TEST

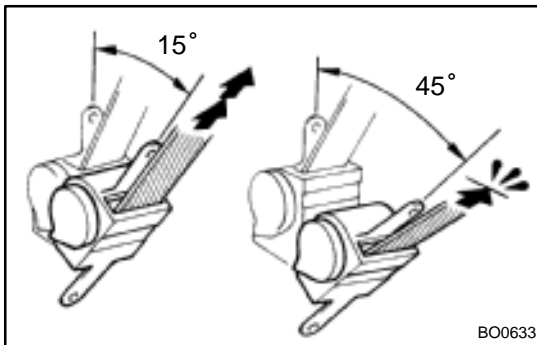
- (a) Make sure that the belt locks when pulled out quickly.
- (b) Remove the locking retractor assembly.
- (c) Pull out the whole belt and measure the length of the whole belt.

Then retract the belt slightly and pull it out again.

- (d) Make sure that the belt cannot be extended further.
- If a problem is found, replace the assembly.



- (e) Retract the whole belt, then pull out the belt until 200 mm (7.87 in.) of belt remains retracted.
- (f) Tilt the retractor slowly.



- (g) Make sure that the belt can be pulled out at a tilt of 15 degrees or less, and cannot be pulled out at over 45 degrees of tilt.

If a problem is found, replace the assembly.

# SEAT BELT PRETENSIONER REMOVAL

BO20E-02

## NOTICE:

- If the wiring connector of the seat belt pretensioner is disconnected with the ignition switch at ON diagnostic trouble codes will be recorded.
- Never use seat belt pretensioner from another vehicle. When replacing parts, replace them with new parts.

### 1. REMOVE FRONT DOOR SCUFF PLATE

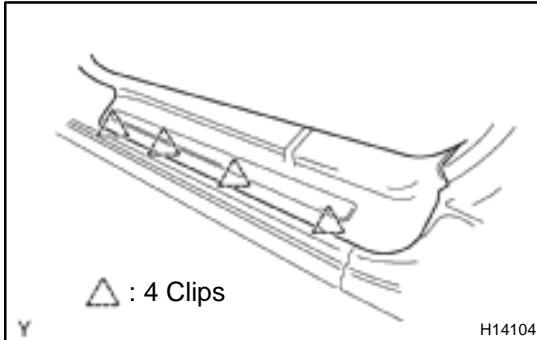
Using a screwdriver, remove the front door scuff plate.

#### HINT:

Tape the screwdriver tip before use.

### 2. REMOVE LUGGAGE COMPARTMENT LIDS

Remove 6 bolts and luggage compartment lids.



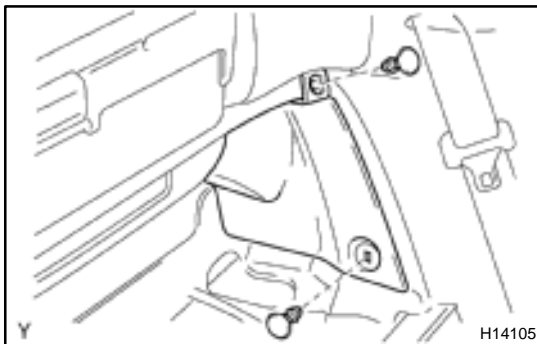
### 3. REMOVE LOWER REAR SEPARATOR TRIM COVER

(a) Remove the screw and scrip

(b) Using a screwdriver, remove the lower rear separator trim cover.

#### HINT:

Tape the screwdriver tip before use.



### 4. REMOVE QUARTER TRIM PANEL

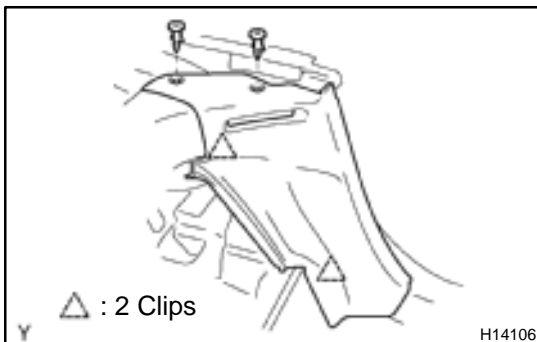
(a) Remove the floor anchor mounting bolt and disconnect the front seat outer belt.

(b) Remove the 2 clips.

(c) Using a screwdriver, remove the quarter trim panel.

#### HINT:

Tape the screwdriver tip before use.



### 5. REMOVE LUGGAGE COMPARTMENT BOX

(a) Remove the 2 screws.

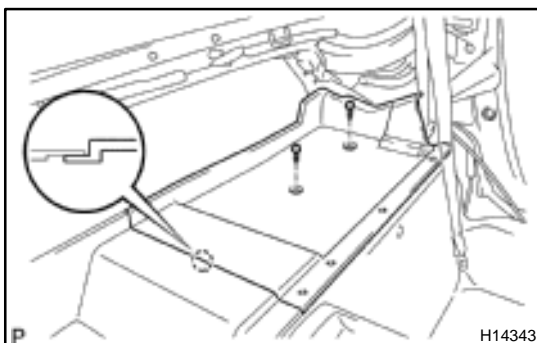
(b) Using a screwdriver, remove the luggage compartment box.

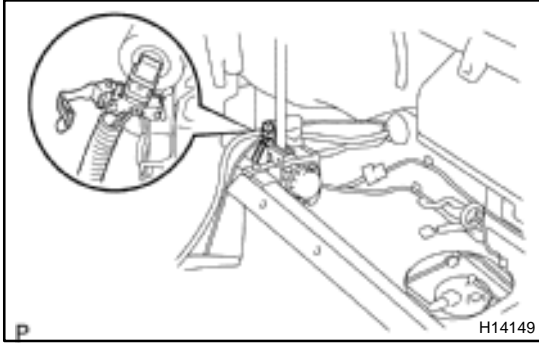
#### HINT:

Tape the screwdriver tip before use.

### 6. REMOVE FRONT SEAT OUTER BELT

(a) Remove the shoulder anchor mounting bolt and disconnect the front seat outer belt.





- (b) Disconnect the pretensioner connector as shown in the illustration.

**NOTICE:**

**When removing the seat belt pretensioner, work must be started 90 seconds after the ignition switch is turned to the "LOCK" position and the negative (-) terminal cable is disconnected from the battery.**

- (c) Remove the 2 bolts and retractor of front seat outer belt.
- (d) Only driver's side:  
Disconnect the connector of the retractor switch.

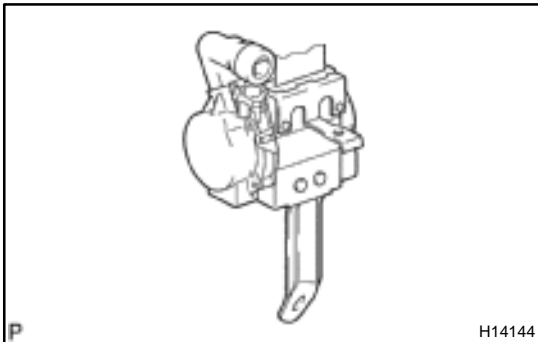
## INSPECTION

### 1. PRETENSIONER IS NOT ACTIVATED

- (a) Perform a diagnostic system check (See page [DI-237](#)).



- (b) Perform a visual check which includes the following items with the front seat outer belt removed from the vehicle.
- Check for cuts and cracks in, or marked discoloration on the quarter trim panel.
  - Check for cuts and cracks in wire harness, and for chipping in connectors.
  - Check for deformation of the center floor No. 3 crossmember.

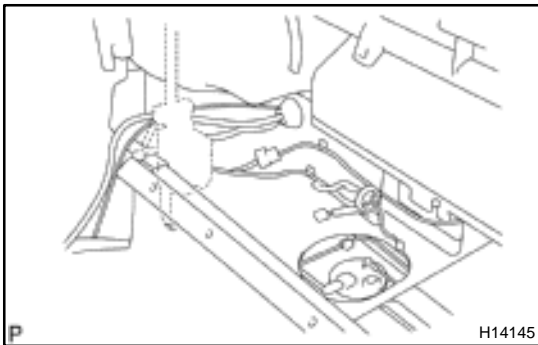


### NOTICE:

For removal and installation of the front seat outer belt, see pages [BO-59](#) and [BO-68](#).

### 2. PRETENSIONER IS ACTIVATED

- (a) Perform a diagnostic system check (See page [DI-237](#)).

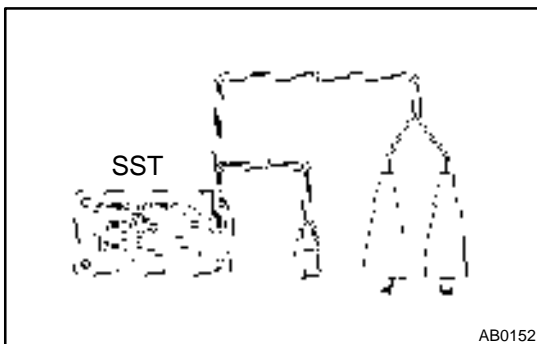


- (b) Perform a visual check which includes the following items with the front seat outer belt removed from the vehicle.
- Check for deformation of the center floor No. 3 crossmember.
  - Check for damage on the connector and wire harness.

## DISPOSAL

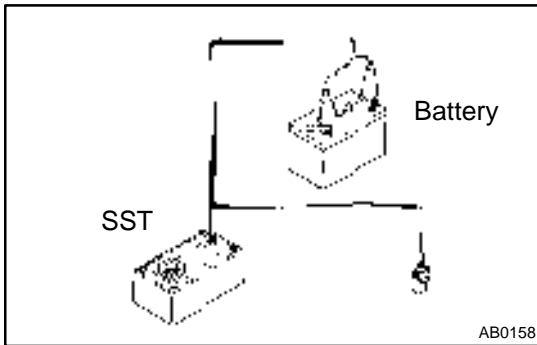
### HINT:

When scrapping vehicles equipped with a seat belt pretensioner or disposing of a front seat outer belt (with seat belt pretensioner) always first activate the seat belt pretensioner in accordance with the procedure described below. If any abnormality occurs in the seat belt pretensioner operation, contact the SERVICE DEPT. of TOYOTA MOTOR SALES, U.S.A.,INC. When disposing of a front seat outer belt (with seat belt pretensioner) activated in a collision, follow the same procedure given in step 1-(e) in "DISPOSAL".



### NOTICE:

- Never dispose of front seat outer belt which has an in-activated pretensioner.
- The seat belt pretensioner produces a sizeable exploding sound when it activates, so perform the operation out-of-door and where it will not disturb nearby residents.
- When activating the seat belt pretensioner, always use the specified SST. (SRS Airbag Deployment Tool) Perform the operation in a place away from electrical noise.  
SST 09082-00700, 09082-00740
- When activating a front seat outer belt (with seat belt pretensioner), perform the operation at least 10 m (33 ft) away from the front seat outer belt.
- Use gloves and safety glasses when handling a front seat outer belt with activated pretensioner.
- Always wash your hands with water after completing the operation.
- Do not apply water, etc. to a front seat outer belt with activated pretensioner.



## 1. SEAT BELT PRETENSIONER ACTIVATION WHEN SCRAPPING VEHICLE

### HINT:

Have a battery ready as the power source to activate the seat belt pretensioner.

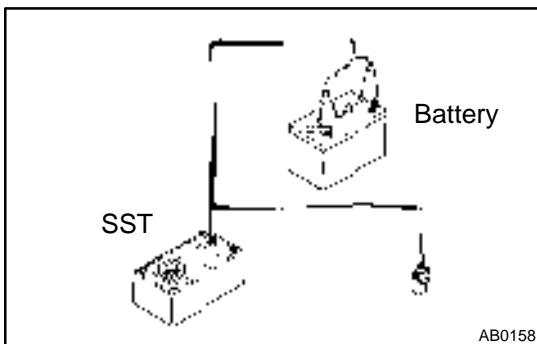


(a) Check functioning of SST.

### NOTICE:

**When activating the seat belt pretensioner, always use the specified SST: SRS Airbag Deployment Tool.**

SST 09082-00700, 09082-00740

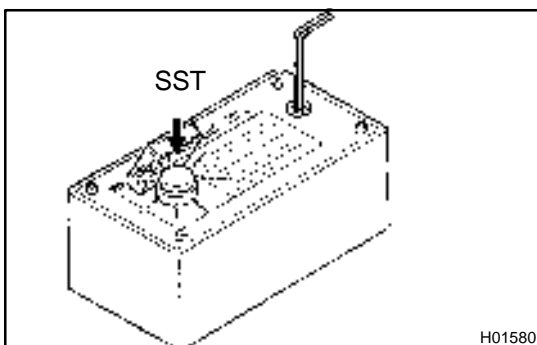


(1) Connect the SST to the battery.

Connect the red clip of the SST to the battery positive (+) terminal and the black clip to the battery negative (-) terminal.

### HINT:

Do not connect the yellow connector which will be connected with the seat belt pretensioner.



(2) Check functioning of SST.

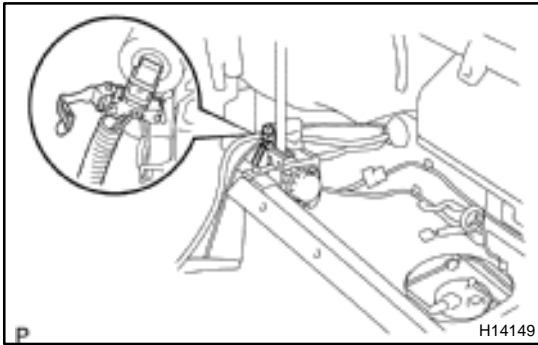
Press the SST activation switch, and check the LED of the SST activation switch lights up.

### NOTICE:

**If the LED lights up when the activation switch is not being pressed, SST malfunction is probable, so definitely do not use the SST.**

(b) Disconnect the pretensioner connector.

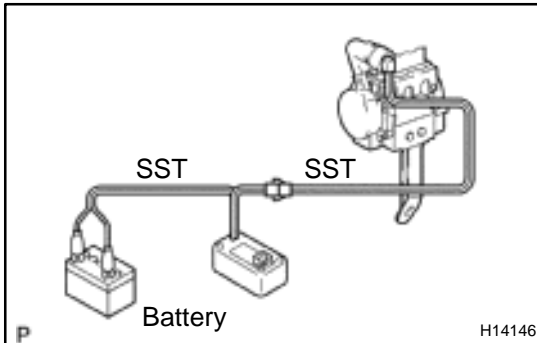
- (1) Remove the door scuff plate.
- (2) Remove the luggage compartment lid.
- (3) Remove the lower rear separator trim cover.
- (4) Remove the floor anchor mounting bolt and disconnect the front seat outer belt.
- (5) Remove the quarter trim panel.
- (6) Remove the luggage compartment box.
- (7) Remove the shoulder anchor mounting bolt and disconnect the front seat outer belt.



(8) Disconnect the pretensioner connector as shown in the illustration.

(c) Install the SST.

(1) Install the floor anchor of the seat belt.

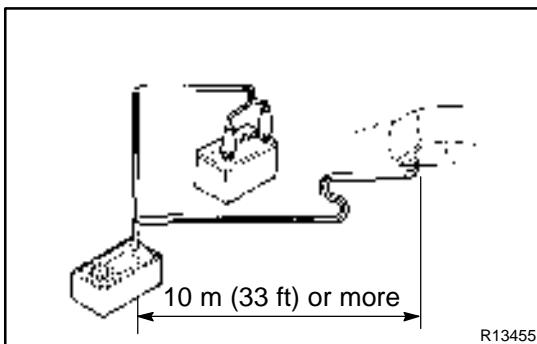


(2) Connect the 2 SST, then connect them to the seat belt pretensioner.

SST 09082-00700, 09082-00740

**NOTICE:**

**To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock.**



(3) Move the SST to at least 10 m (33 ft) away from the front of the vehicle.

(4) Close all the doors and windows of the vehicle.

**NOTICE:**

**Take care not to damage the SST wire harness.**

(5) Connect the SST red clip to the battery positive (+) terminal and the black clip to the negative (-) terminal.

(d) Activate the seat belt pretensioner.

(1) Confirm that no one is inside the vehicle or within 10 m (33 ft) area around of the vehicle.

(2) Press the SST activation switch and activate the seat belt pretensioner.

**HINT:**

The seat belt pretensioner operates simultaneously as the LED of the SST activation switch lights up.

(e) Dispose of front seat outer belt (with seat belt pretensioner).

**NOTICE:**

- **The front seat outer belt is very hot when the seat belt pretensioner is activated, so leave it alone for at least 30 minutes after activation.**
- **Use gloves and safety glasses when handling a front seat outer belt with activated seat belt pretensioner.**
- **Always wash your hands with water after completing the operation.**
- **Do not apply water, etc. to a front seat outer belt with activated seat belt pretensioner.**



**HINT:**

When scrapping a vehicle, activate the seat belt pretensioner and scrap the vehicle with activated front seat outer belt still installed.

**2. ACTIVATION WHEN DISPOSING OF FRONT SEAT OUTER BELT ONLY**

**NOTICE:**

- **When disposing of the front seat outer belt (with seat belt pretensioner) only, never use the customer’s vehicle to activate the seat belt pretensioner.**
- **Be sure to follow the procedure given on the next page when activating the seat belt pretensioner.**

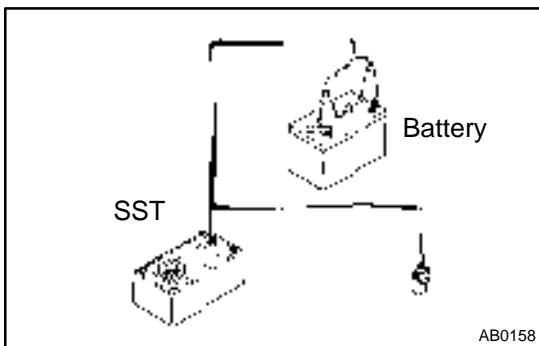
**HINT:**

Have a battery ready as the power source when activating the seat belt pretensioner.

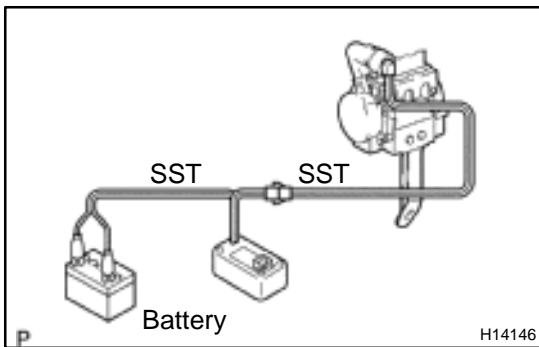
(a) Remove the front seat outer belt (See page BO-59).

**HINT:**

Cut the belt near the seat belt retractor.



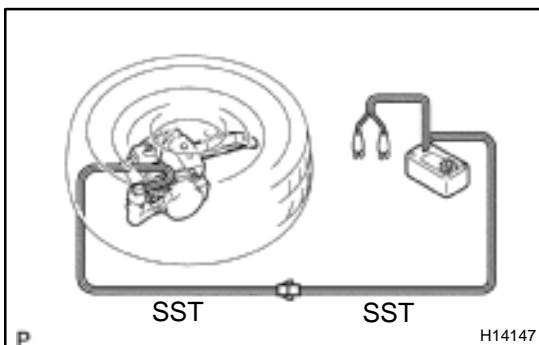
(b) Check functioning of SST (See step 1-(a)).  
SST 09082-00700, 09082-00740



(c) Install the SST.  
(1) Connect the 2 SST, then connect them to the seat belt pretensioner.  
SST 09082-00700, 09082-00740

**NOTICE:**

**To avoid damaging the SST connector and wire harness, do not lock the secondary lock of the twin lock.**



(2) Place the front seat outer belt on the ground and cover it with the disc wheel with tire.

**NOTICE:**

**Place the front seat outer belt as shown in the illustration.**

(3) Move the SST as least 10 m (33 ft) away from the disc wheel.

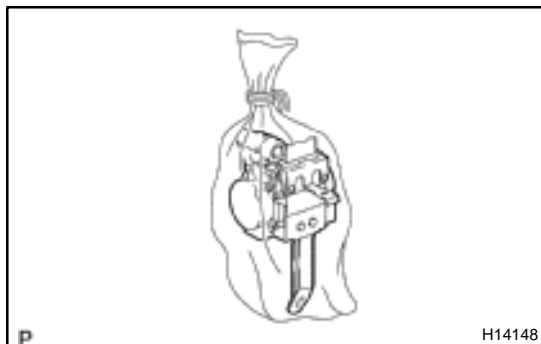
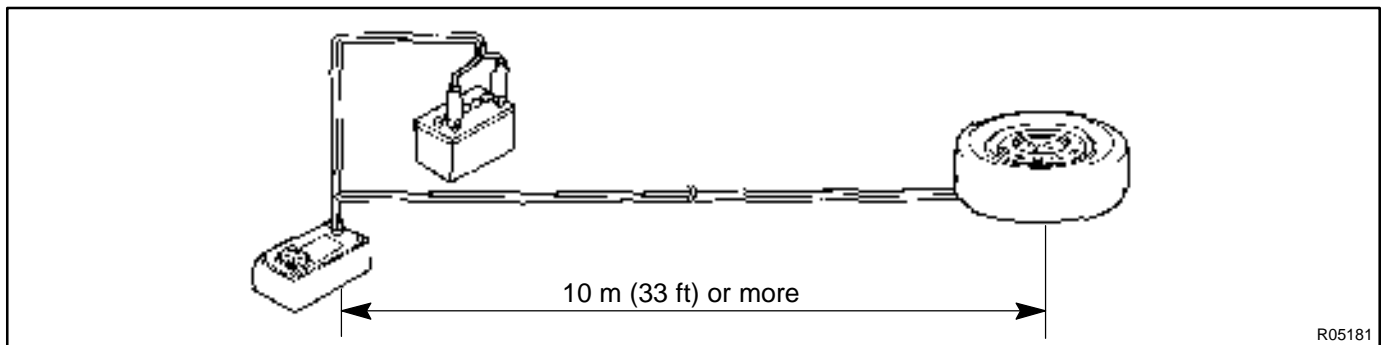
**NOTICE:**

**Take care not to damage the SST wire harness.**

- (d) Activate the seat belt pretensioner.
- (1) Connect the SST red clip to the battery positive (+) terminal and black clip to the battery negative (-) terminal.
  - (2) Check that no one is within 10 m (33 ft) area around the disc wheel.
  - (3) Press the SST activation switch and activate the seat belt pretensioner.

**HINT:**

The seat belt pretensioner operates simultaneously as the LED of the SST activation switch lights up.



- (e) Dispose of front seat outer belt (with seat belt pretensioner).

**CAUTION:**

- **The front seat outer belt is very hot when the seat belt pretensioner is activated, so leave it alone for at least 30 minutes after activation.**
  - **Use gloves and safety glasses when handling a front seat outer belt with activated seat belt pretensioner.**
  - **Always wash your hands with water after completing the operation.**
  - **Do not apply water, etc. to a front seat outer belt with activated seat belt pretensioner.**
- (1) Remove the disc wheel and SST.
  - (2) Place the front seat outer belt in a vinyl bag, tie the end tightly and dispose of it in the same way as other general parts.

# REPLACEMENT

## REPLACE REQUIREMENTS

In the following cases, replace the seat belt pretensioner.

- If the seat belt pretensioner has been activated.
- If the seat belt pretensioner has been found to be faulty in troubleshooting.
- If the front seat outer belt has been found to be faulty during checking item 1-(a) or 2-(b).
- If the front seat outer belt has been dropped.

## CAUTION:

**For removal and installation of the seat belt pretensioner, see pages [BO-59](#) and [BO-68](#).**

**Be sure to follow the correct procedure.**

## INSTALLATION

### NOTICE:

- Never use seat belt pretensioner from another vehicle. When replacing parts, replace them with new parts.
- Make sure that the front seat outer belt is installed with the specified torque.
- If the front seat outer belt has been dropped, or there are cracks, dents or other defects in the case or connector, replace the front seat outer belt with a new one.
- When installing the front seat outer belt, take care that the wiring does not interfere with other parts and is not pinched between other parts.

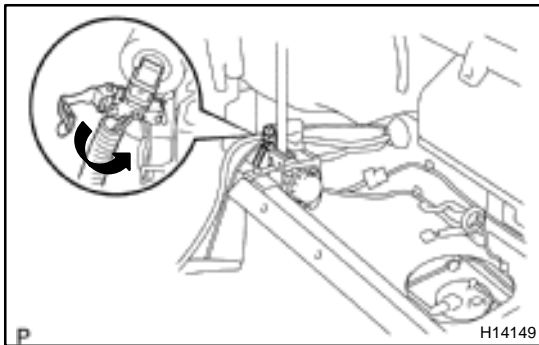
### 1. INSTALL RETRACTOR OF FRONT SEAT OUTER BELT

- (a) Install the retractor of the front seat outer belt with the 2 bolts.

#### Torque:

Upper bolt: 7.5 N·m (76 kgf·cm, 66 in.-lbf)

Lower bolt: 43 N·m (440 kgf·cm, 32 ft-lbf)



- (b) Connect the pretensioner connector as shown in the illustration.

- (c) Only driver side:

Connect the retractor switch connector.

### 2. INSTALL FRONT SEAT OUTER BELT SHOULDER ANCHOR

Torque: 42 N·m (420 kgf·cm, 30 ft-lbf)

### 3. INSTALL LUGGAGE COMPARTMENT BOX

### 4. INSTALL QUARTER TRIM PANEL

### 5. INSTALL FRONT SEAT OUTER BELT FLOOR ANCHOR

Torque: 42 N·m (420 kgf·cm, 30 ft-lbf)

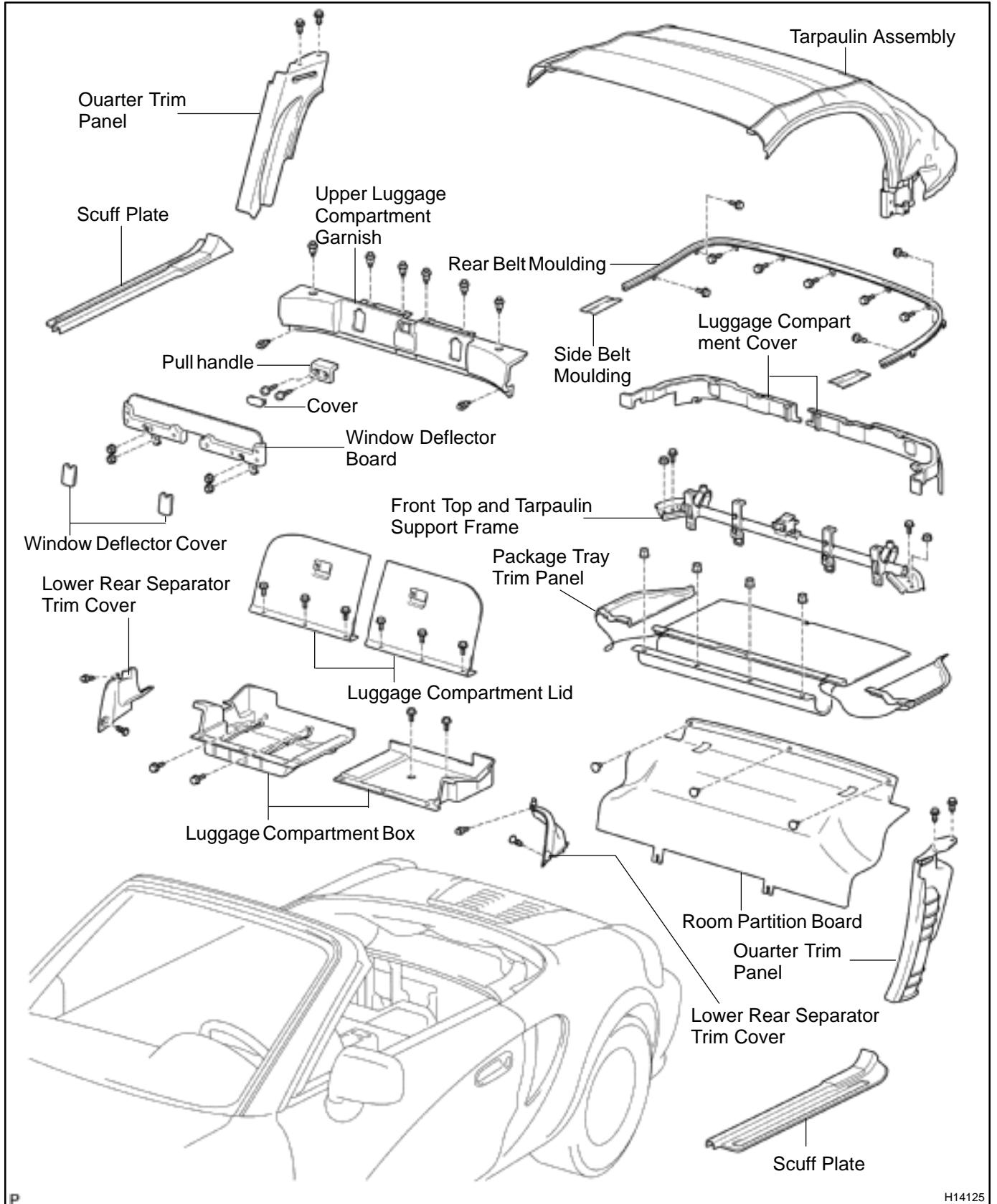
### 6. INSTALL LOWER REAR SEPARATOR TRIM COVER

### 7. INSTALL LUGGAGE COMPARTMENT LID

### 8. INSTALL FRONT DOOR SCUFF PLATE

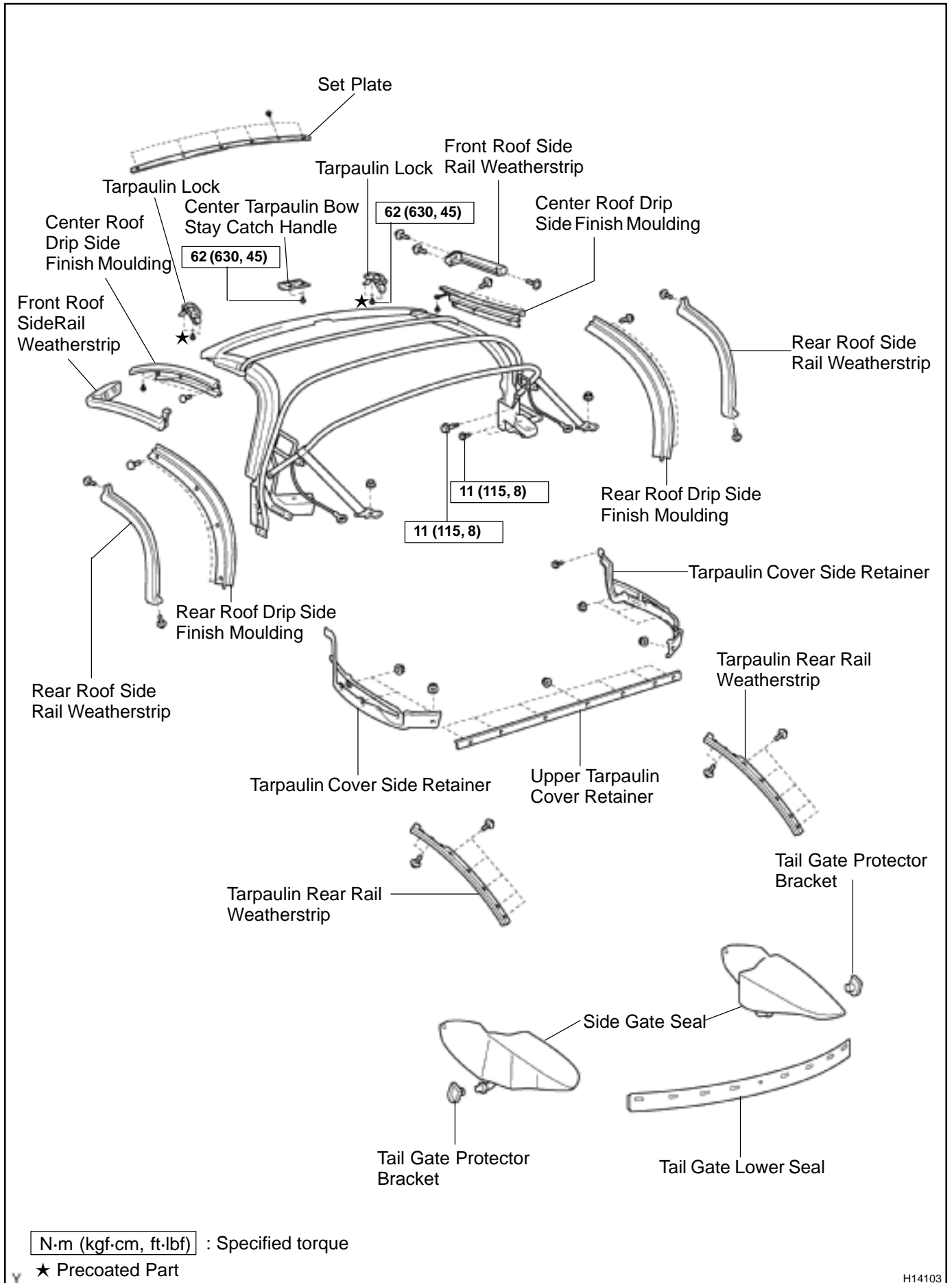
# SOFT TOP COMPONENTS

BO34S-01

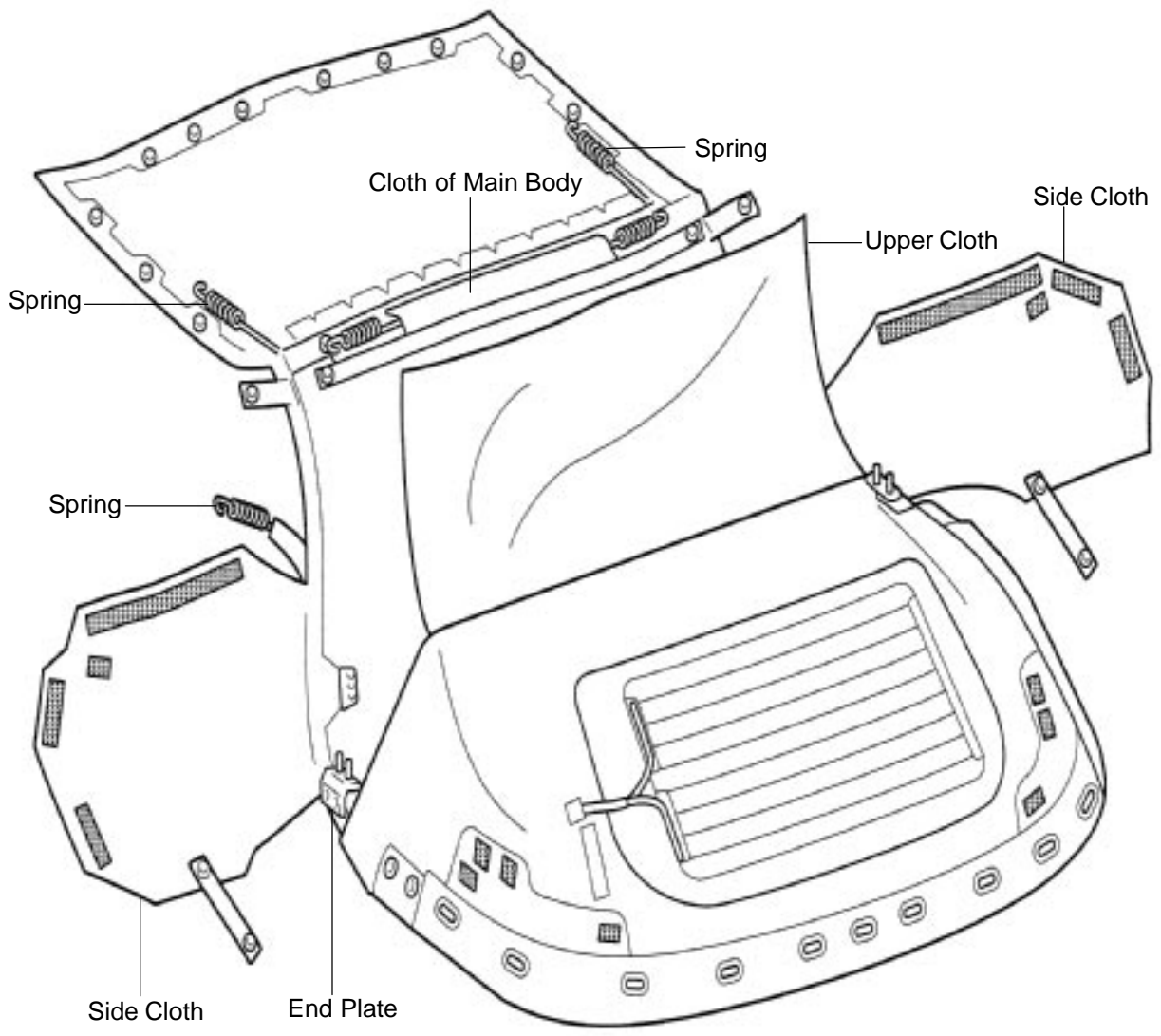


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H14125

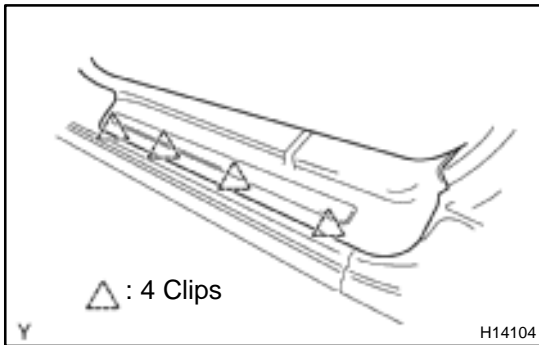


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H14153



## REMOVAL

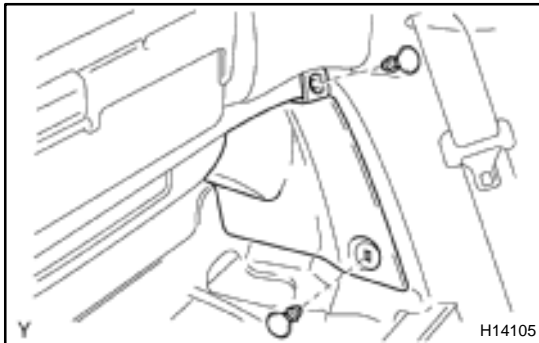
### 1. REMOVE DOOR SCUFF PLATES

- (a) Using a screwdriver, remove the door scuff plate

HINT:

Tape the screwdriver tip before use.

- (b) Employ the same manner described above to the other side.



### 2. REMOVE LOWER REAR SEPARATOR TRIM COVERS

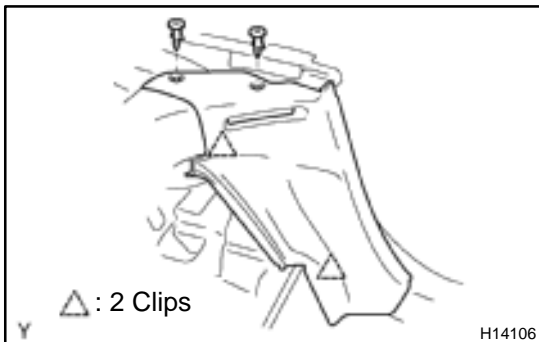
- (a) Remove the 2 clips.

- (b) Using a screwdriver, remove the separator trim cover.

HINT:

Tape the screwdriver tip before use.

- (c) Employ the same manner described above to the other side.



### 3. REMOVE QUARTER TRIM PANELS

- (a) Remove the floor anchor mounting bolt and disconnect the front seat outer belt.

- (b) Remove the 2 clips.

- (c) Using a screwdriver, remove the quarter trim panel.

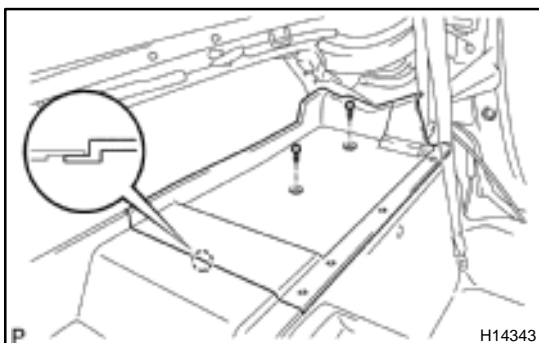
HINT:

Tape the screwdriver tip before use.

- (d) Employ the same manner described above to the other side.

### 4. REMOVE LUGGAGE COMPARTMENT LIDS

Remove 6 bolts and luggage compartment lids.



### 5. REMOVE LUGGAGE COMPARTMENT BOXES

- (a) Remove the 2 screws.

- (b) Using a screwdriver, remove the luggage compartment box.

HINT:

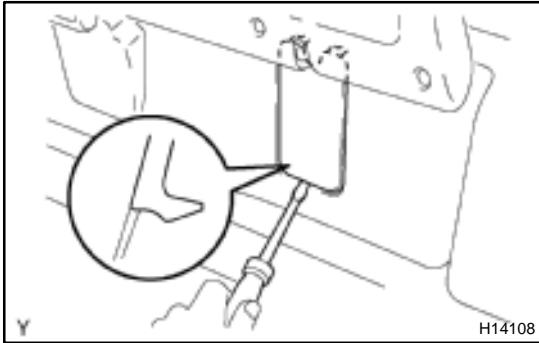
Tape the screwdriver tip before use.

- (c) Employ the same manner described above to the other side.



**6. DISCONNECT FRONT SEAT OUTER BELT**

Remove the shoulder anchor mounting bolt and disconnect the front seat outer belt.

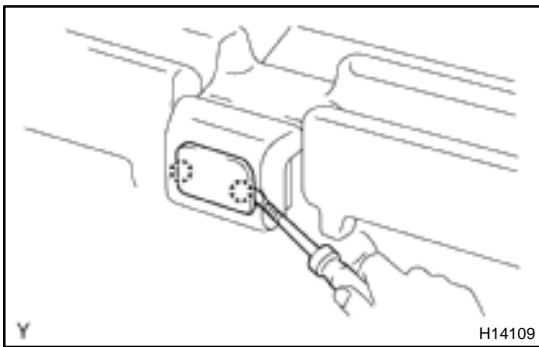
**7. REMOVE WIND DEFLECTOR BOARD**

(a) Using a screwdriver, remove the window deflector cover.

HINT:

Tape the screwdriver tip before use.

(b) Remove the 4 nuts and deflector board.

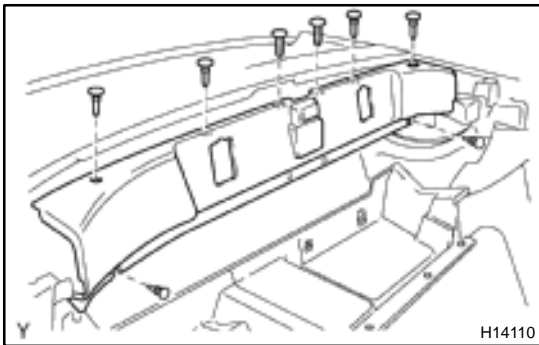
**8. REMOVE PULL HANDLE**

(a) Using a screwdriver, remove the cover.

HINT:

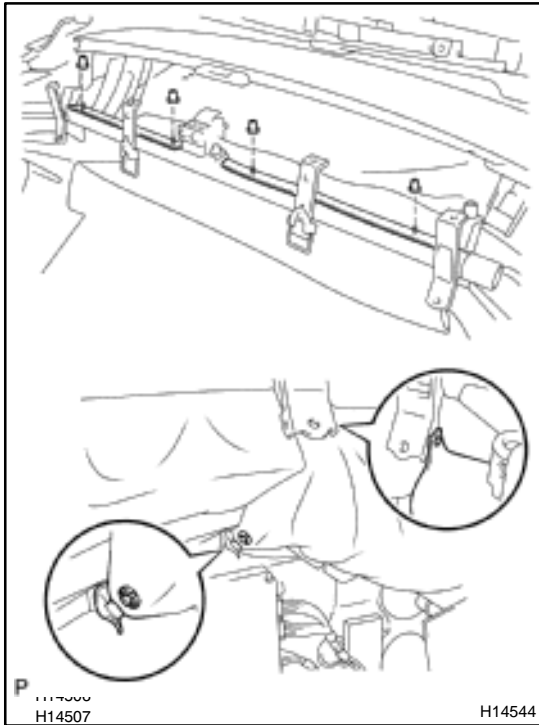
Tape the screwdriver tip before use.

(b) Remove the 2 screws and pull handle.

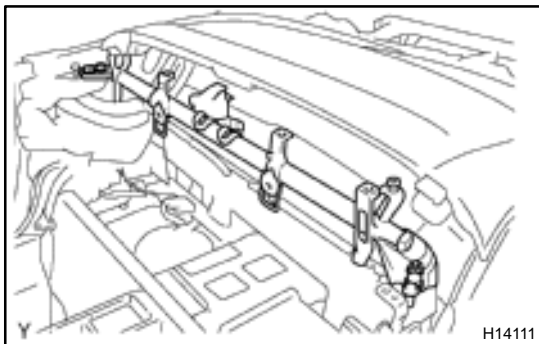
**9. REMOVE UPPER LUGGAGE COMPARTMENT GARNISH**

Remove the 8 clips and upper luggage compartment garnish.

**10. REMOVE LUGGAGE COMPARTMENT COVERS**

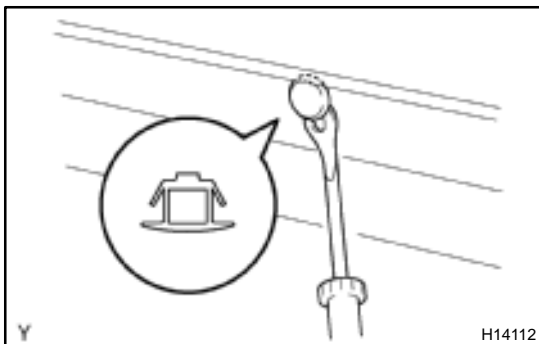


- 11. REMOVE PACKAGE TRAY TRIM PANEL ASSEMBLY**
- Remove the 4 clips.
  - Remove the clip and button.
  - Remove the package tray trim suspender then remove the package tray trim panel.
  - Employ the same manner described above to the other side.



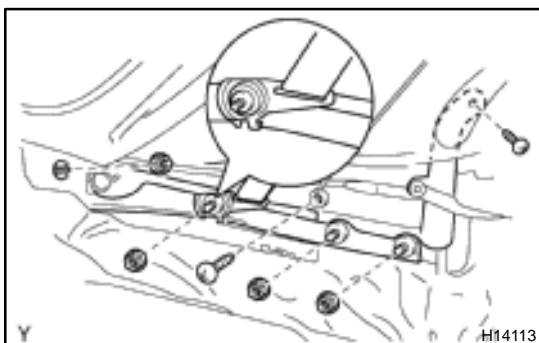
**12. REMOVE FRONT TOP AND TARPAULIN SUPPORT FRAME**

Remove the 2 bolts, 2 nuts and front top and tarpaulin support frame.



**13. REMOVE ROOM PARTITION BOARD**

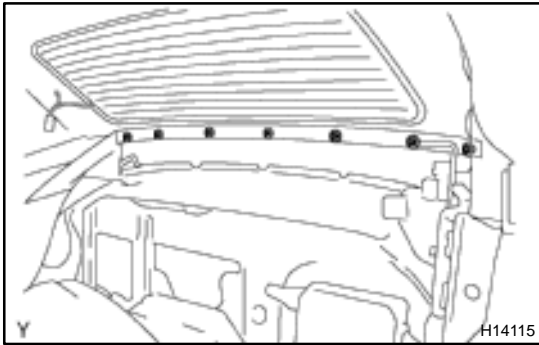
Using a clip remover, remove the 3 clips of room partition board.



**14. REMOVE TARPAULIN COVER SIDE RETAINERS**

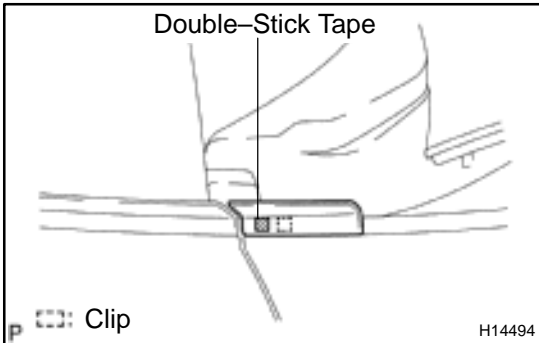
- Pull up the side cloth.
- Remove the screw and wire
- Remove the screw, 4 nuts and tarpaulin cover side retainer.
- Employ the same manner described above to the other side.

**15. REMOVE TAIL GATE LOWER SEAL**



**16. REMOVE UPPER TARPAULIN COVER RETAINER**

Remove the 7 nuts and upper tarpaulin cover retainer.



**17. REMOVE SIDE BELT MOULDING**

(a) Using a screwdriver, remove the side belt moulding.

HINT:

Tape the screwdriver tip before use.

(b) Employ the same manner described above to the other side.

**18. REMOVE REAR BELT MOULDING ASSEMBLY**

(a) Remove the rear end of the tarpaulin from the stud bolt.

**NOTICE:**

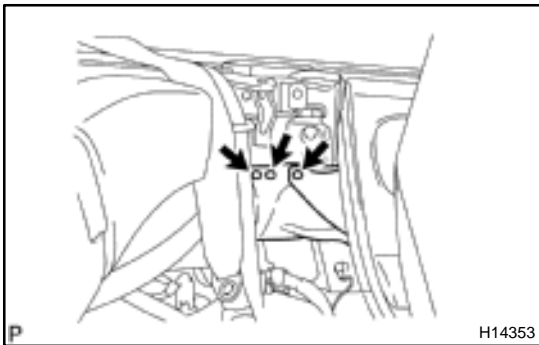
**Take care not to damage the glass.**

(b) Remove the 8 bolts.

(c) Using a screwdriver, remove the rear belt moulding.

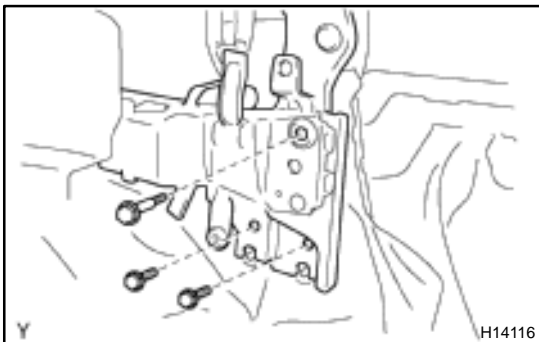
HINT:

Tape the screwdriver, tip before use.

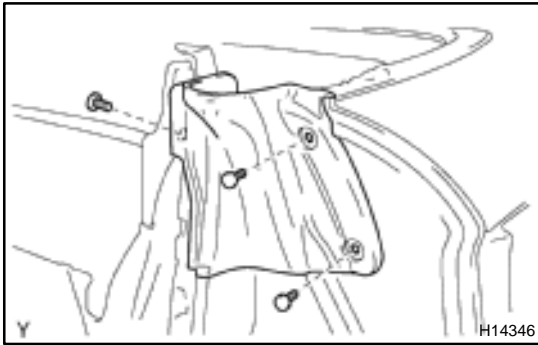


**19. REMOVE TARPAULIN ASSEMBLY**

(a) Remove the 3 clips then disconnect the side gate seal partially.



(b) Remove the 6 bolts and tarpaulin assembly.

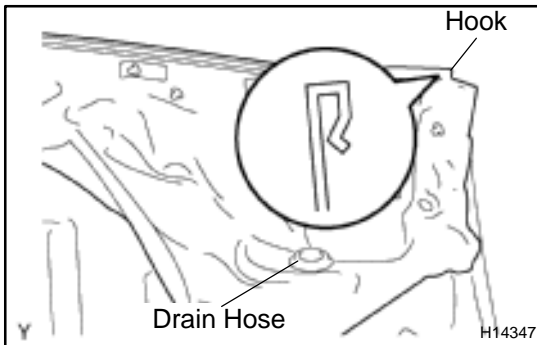
**20. REMOVE DUST ROOF WEATHERSTRIPS**

- (a) Using a screwdriver, remove the 3 clips and dust roof weatherstrips.

**HINT:**

Tape the screwdriver tip before use.

- (b) Employ the same manner described above to the other side.

**21. REMOVE SIDE GATE SEALS**

- (a) Remove the tail gate lower seal partially.
- (b) Unhook the center pillar hook partially.
- (c) Pull out the drain hose and remove the side gate seal.
- (d) Employ the same manner described above to the other side.

## DISASSEMBLY

### 1. REMOVE TARPAULIN LOCKS

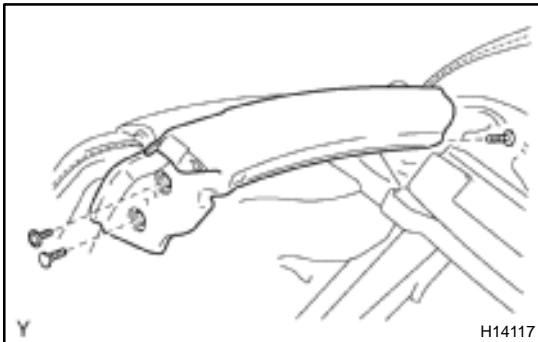
- (a) Remove the 3 screws and tarpaulin lock.
- (b) Remove the RH and LH locks.

### 2. REMOVE CENTER TARPAULIN BOW STAY CATCH HANDLE

Remove the 2 screws and center tarpaulin bow stay catch handle.

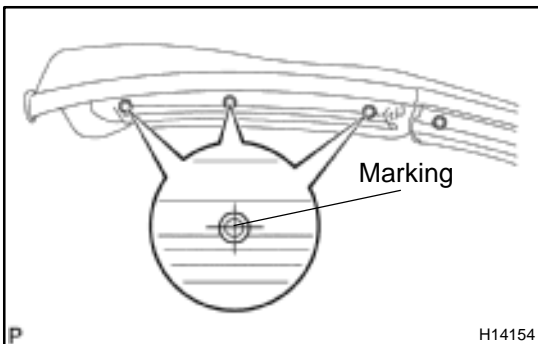
### 3. REMOVE SET PLATE

Remove 6 screws and set plate.



### 4. REMOVE FRONT ROOF SIDE RAIL WEATHERSTRIPS

- (a) Remove the screw, 2 clips and roof side rail weatherstrip.
- (b) Remove the RH and LH weatherstrips.



### 5. REMOVE CENTER ROOF DRIP SIDE FINISH MOULDINGS

- (a) Remove the 4 screws and roof side finish moulding.
- (b) Employ the same manner described above to the other side.

#### NOTICE:

**Before removing the moulding, mark the positioning with a colored pencil on the installation holes.**



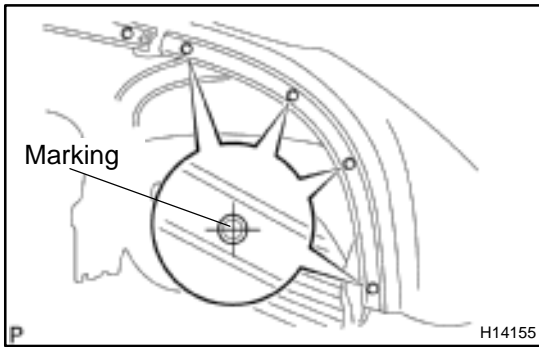
### 6. REMOVE REAR ROOF SIDE RAIL WEATHERSTRIPS

- (a) Using a clip remover, remove the 2 clips and roof side rail weather strip.

#### HINT:

Tape the screwdriver tip before use.

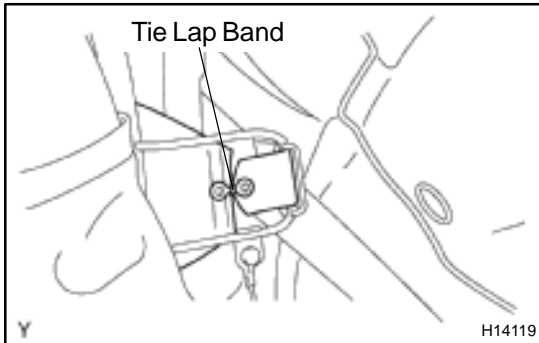
- (b) Employ the same manner described above to the other side.

**7. REMOVE REAR ROOF SIDE FINISH MOULDINGS**

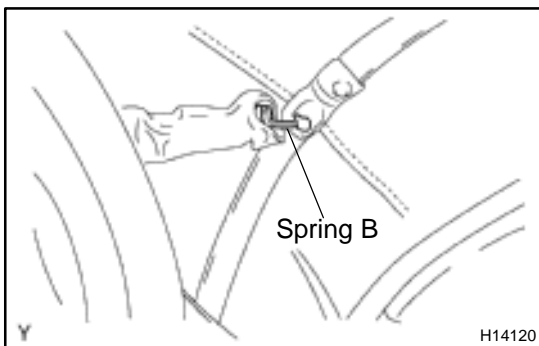
- (a) Remove the 4 screws and rear roof side finish moulding.
- (b) Employ the same manner described above to the other side.

**CAUTION:**

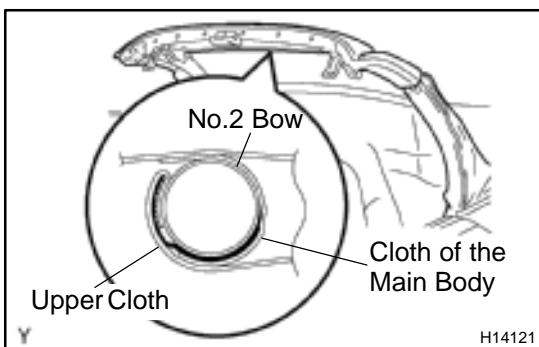
**Before removing the moulding, mark the positioning with a colored pencil on the installation holes.**

**8. REMOVE TARPAULIN COVER**

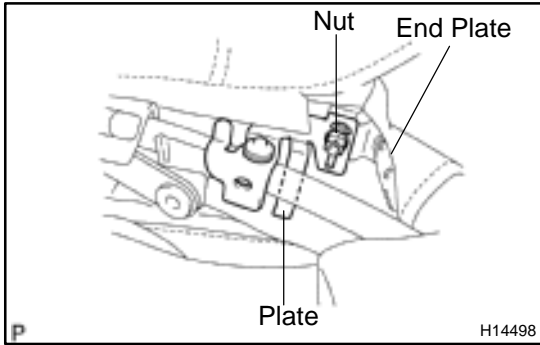
- (a) Close the tarpaulin lightly and cut out the tie lap band.



- (b) Remove the clip.
- (c) Pull up the spring cover and remove the spring B.



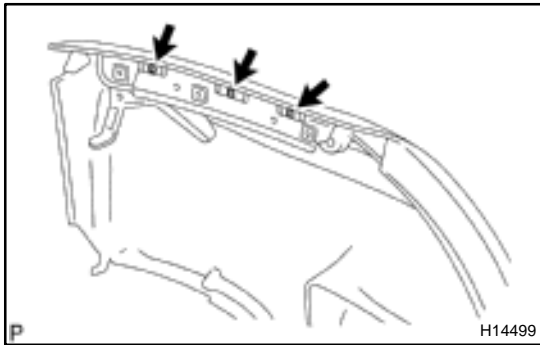
- (d) By marking the tarpaulin assembly in a half-open condition, remove the upper cloth from the No. 2 bow.
- (e) Remove the cloth affixed on the No. 2 bow.
- (f) Remove the upper band.
- (g) Remove the inside cloth of the tarpaulin from the band assembly.



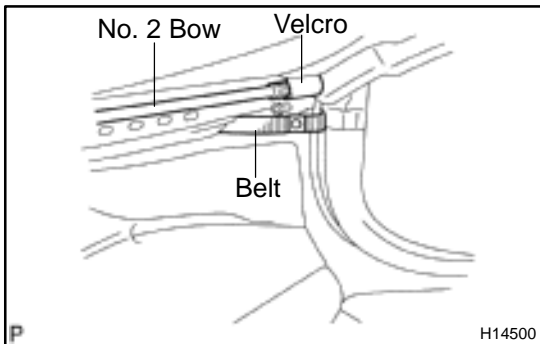
(h) By making the tarpaulin assembly in a full-open condition, remove the nut and end plate.

**NOTICE:**

**Remove the plate pinched in the end plate before hand.**

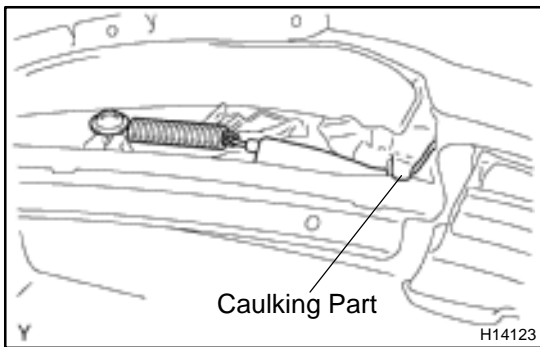


(i) Remove the 6 right and left screws of the tarpaulin cover at the link side.



(j) Remove the tarpaulin belt wrapped around the link side.

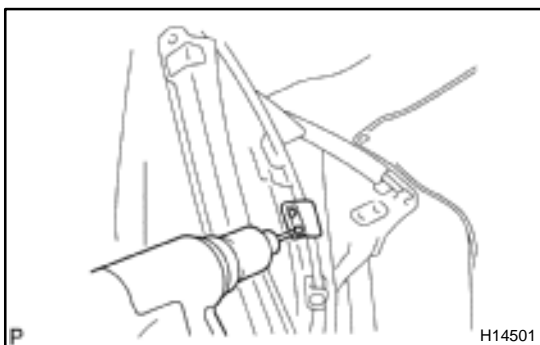
(k) Remove the velcro holding both ends of No. 2 Bow.



(l) Pull up the cover at the link side and remove the caulking of the wire using a screw driver.

(m) Remove the screw and spring.

(n) Remove the front of the tarpaulin cover.



(o) Using a rivet cutter and a drill, drill out the rivets and remove the band.

**HINT:**

Even if flanges are taken off, continue drilling and push out remaining flangments with the drill.

(p) Remove the tarpaulin cover from the rear of the link toward the front then take it out.

**NOTICE:**

**Take out the cover so as not to damage the glass.**

# INSPECTION

## 1. INSPECT WATER LEAKAGE

Check from the outside of the vehicle that there is no water leakage.

- (1) In case of pouring water with hose, do not water with the hose squeezed.
- (2) There is a possibility of water leakage even in a normal condition if you water under the tarpaulin.

**NOTICE:**

In case that the water leaks, Check and adjust the door glass and the tarpaulin alignment.

## 2. INSPECT TARPAULIN COVER FOR PROPER TENSION AND CREASES

Tarpaulin cover tension checking.

By making the tarpaulin in a full-open condition, check the tension of the cover visually and by touching.

**NOTICE:**

Depending on the tension or wrinkling condition, re-spread the cover.

## 3. INSPECT TARPAULIN COVER

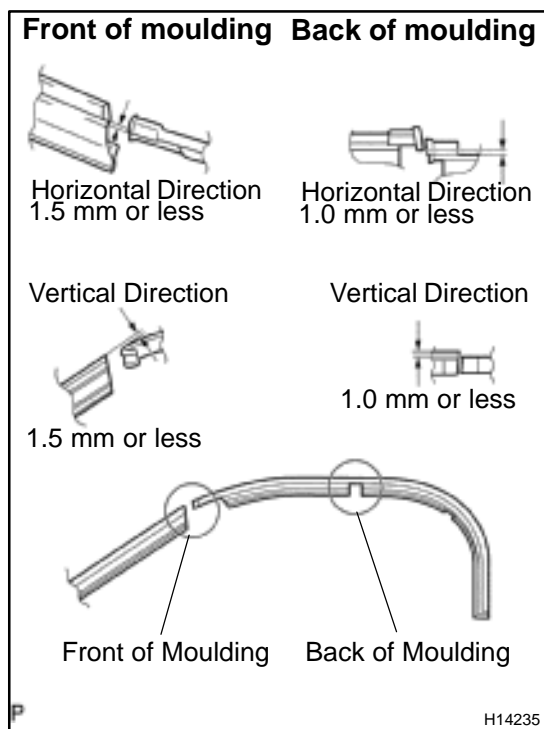
- (a) Inspect the roof drip moulding gap.

**Standard gap:**

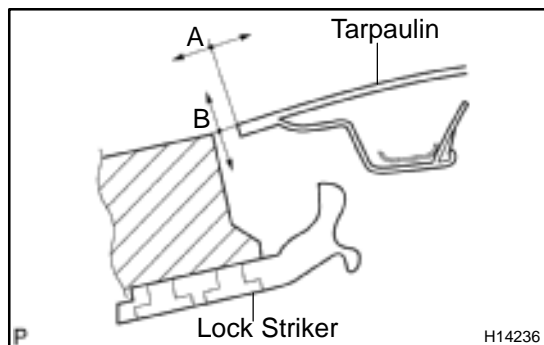
|               | Vertical direction        | Horizontal direction      |
|---------------|---------------------------|---------------------------|
| Frontmoulding | 1.5 mm (0.059 in) or less | 1.5 mm (0.059 in) or less |
| Rearmoulding  | 1.0 mm (0.039 in) or less | 1.0 mm (0.039 in) or less |

**NOTICE:**

In case that it is out of the standard range, adjust or replace the roof drip moulding.



H14235



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- (b) Inspect the roof header measurement.

**Standard measurement:**

**A: 0 ± 2.0 mm (0.079 in.)**

**B: 0 ± 2.0 mm (0.079 in.)**

**NOTICE:**

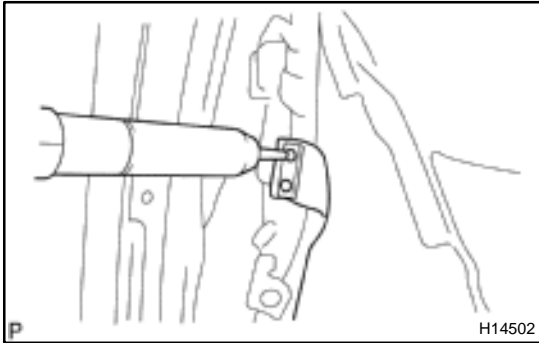
In case that it is out of the standard range, adjust the tarpaulin assembly.



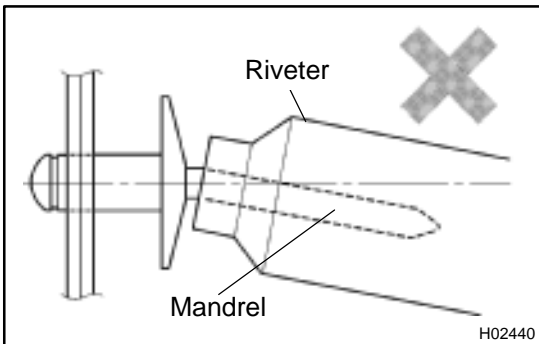
## REASSEMBLY

### 1. INSTALL TARPAULIN COVER

(a) Set the tarpaulin cover on the link assembly.

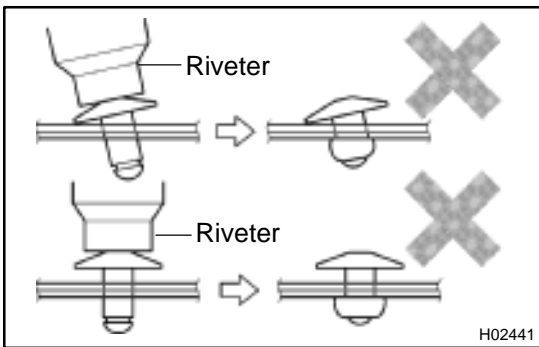


(b) Rivet the band on the link using a pneumatic riveter or hand riveter.

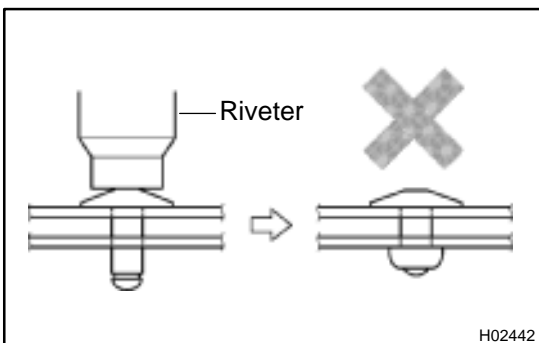


#### NOTICE:

- Do not prize a riveter, as riveter is damaged, it is not tightened and the mandrel is bent.



- Do not tilt the riveter and disconnect the rivet from the material while operating a riveter otherwise, the materials could not be tightened firmly.



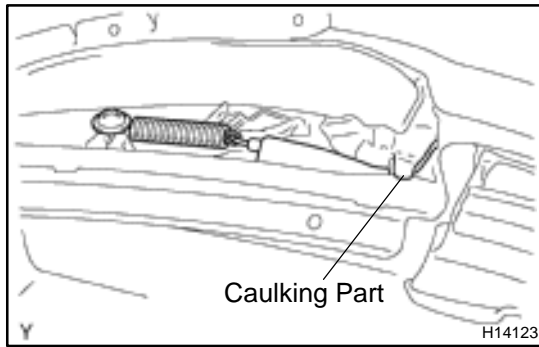
- Install the rivet while attaching materials, as they are not be tightened firmly.

(c) Apply the front part of the tarpaulin cover over the link header part.

(d) Put the front part of the tarpaulin cover over the link.

#### NOTICE:

**Pull the both edges of the cover in order to prevent wrinkles.**



- (e) Tighten the wire at the link side.  
 (f) After caulking the wire, affix the butyl tape to that position.

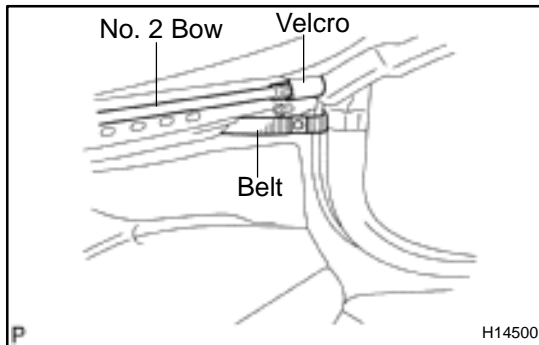
**NOTICE:**

**Failing to tighten the caulking part securely may cause a break of the cover on the side.**

- (g) install the spring with the screw.

**NOTICE:**

**If the spring or the wire is leant toward either right or left, this may cause a wind noise.**

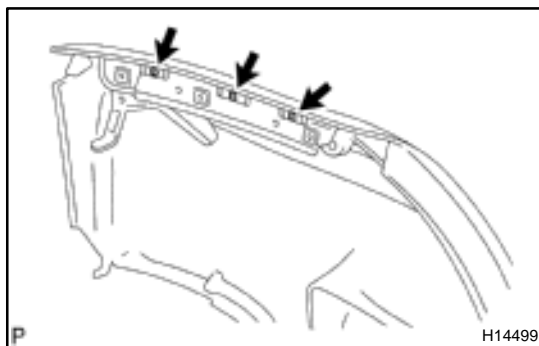


- (h) Retain the tarpaulin belt wound around the link side with a button.

- (i) Wind the velcro of the tarpaulin.

**NOTICE:**

**Secure the space for winding the cloth.**



- (j) Install the tarpaulin cover to the link side part with the 6 screws.

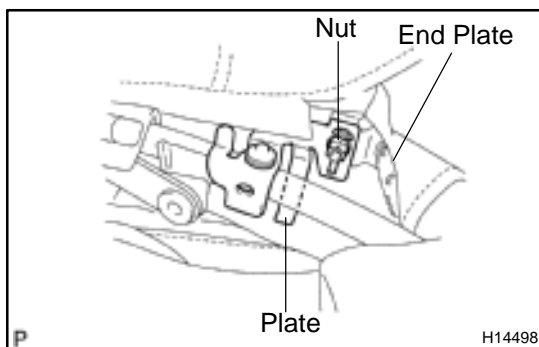
**NOTICE:**

**Pay due attention, because the screws on the vehicle back end are short.**

- (k) Install the set plate with the 6 screws.

**NOTICE:**

**When installing, use the center screw first.**



- (l) Apply adhesive to 2 or 3 threads of the mounting nut.

- (m) Install the end plate.

**Adhesive: Part No. 08833-00070, THREE BOND 1324 or equivalent**

**NOTICE:**

**Do not let the head of the bolt sticking up over the nut upper surface. Pinch the plate, while taking care of the plate facing direction.**

**HINT:**

Over-tightening of the nut causes a wind noise.

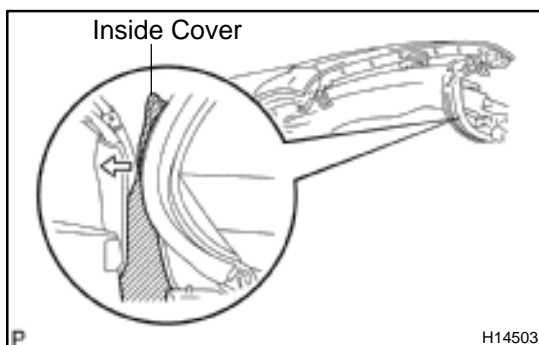
- (n) Put the cloth for the inside tarpaulin cover into the inside.

- (o) Install the rear of the tarpaulin cover to the stud bolt on the body side.

**NOTICE:**

**Take care not to damage the glass.**

- (p) Tighten the upper tarpaulin cover retainer with the 7 nuts.

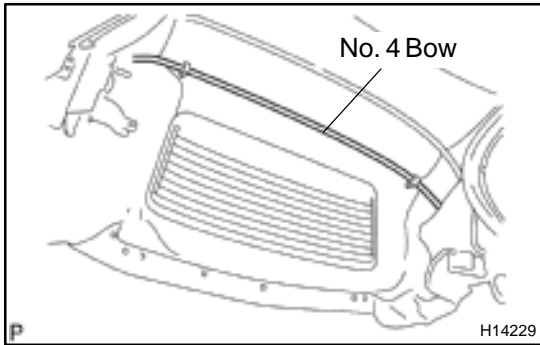


(q) Affix the tailgate lower seal with velcro.

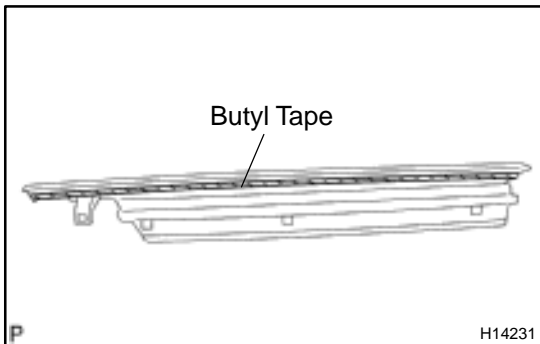
**NOTICE:**

**Be careful that the inside cover or the tarpaulin is not caught.**

(r) By making the tarpaulin assembly in a close condition, lock it.



(s) Pull No. 4 bow as shown in the illustration.



(t) Install the center roof drip side finish mouldings.

(1) Using a scraper, remove the adhesive sticking to the finish moulding.

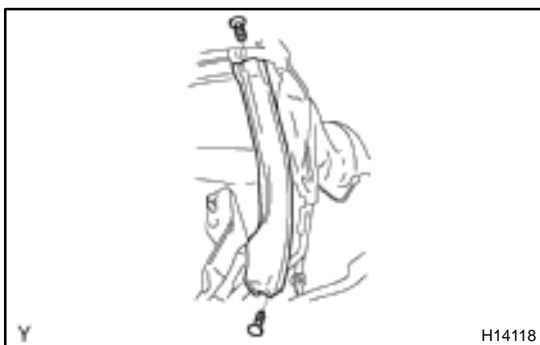
(2) Clean the roof side rail finish moulding.

(3) Apply butyl tape to the groove on the back of the moulding.

(4) Install the roof side rail finish moulding with the screws by matching them with marking.

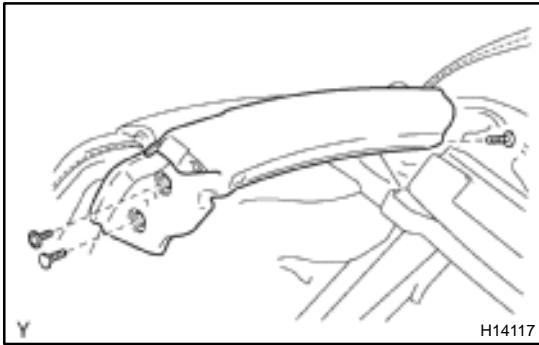
(u) Employ the same manner described above to the other side.

(v) Install the rear roof side finish mouldings.

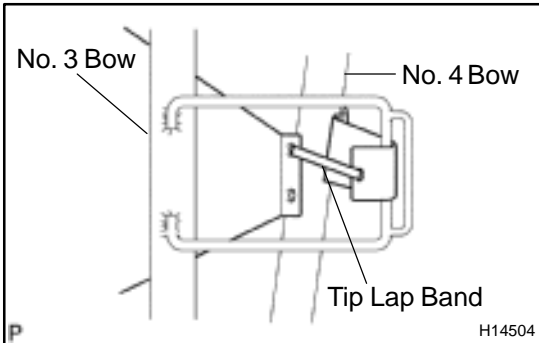


(w) Install the rear roof side rail weatherstrip with the 2 clips.

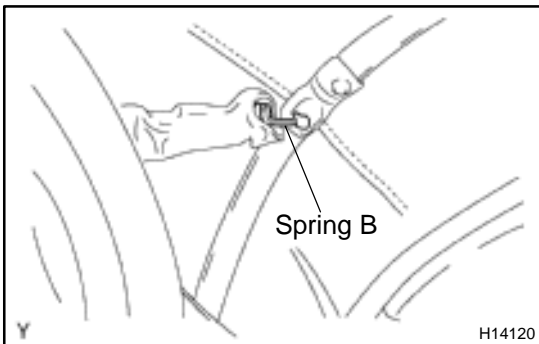
(x) Employ the same manner described above to the other side.



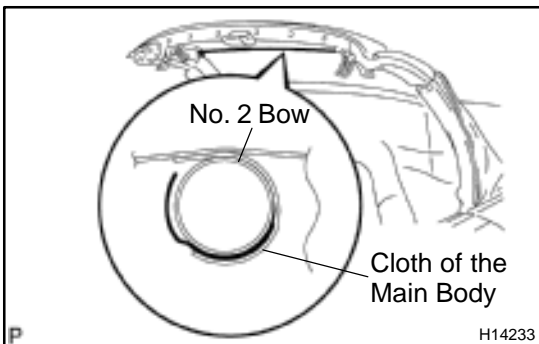
- (y) Install the front roof side rail weatherstrip with the screw and 2 clips.
- (z) Employ the same manner described above to the other side.
- (aa) Affix the inside cover with velcro.



- (ab) As shown in the illustration, put a cloth and a band through No. 3 bow guide, and fix with a tie lap band.
  - Fix with a band while checking the tension at the tarpaulin cover side.
  - After installing the band, cut it by 5 mm (0.20 in.) or less.

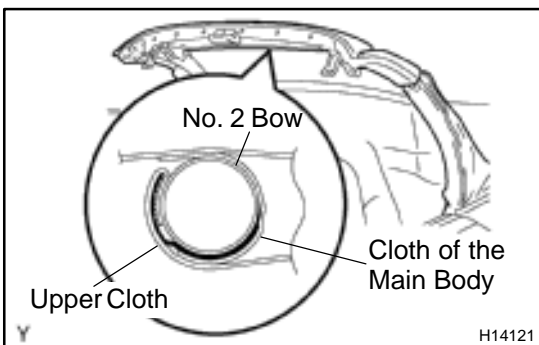


- (ac) Install the spring B.
  - Be sure to install the spring B securely to the groove.
  - Check the tension of the link upper part of the tarpaulin cover.
  - Check that the side of the cover is not caught in the link when opening or closing the tarpaulin assembly.



- (ad) Peel off the parting paper of the double adhesive tape, install the cloth of the main body side to No. 2 bow.

**CAUTION:**  
**Install the cloth of the main body side while checking that it is not stretched too much.**



- (ae) By making the tarpaulin assembly in a half-open condition, install the upper cloth by hanging it on the hook.
- 2. INSTALL CENTER TARPAULIN BOW STAY CATCH HANDLE**  
 Install the center tarpaulin bow stay handle with the 2 screws.  
**Torque: 62 N·m (630 kgf·cm, 45 ft·lbf)**

**3. INSTALL TARPAULIN LOCKS**

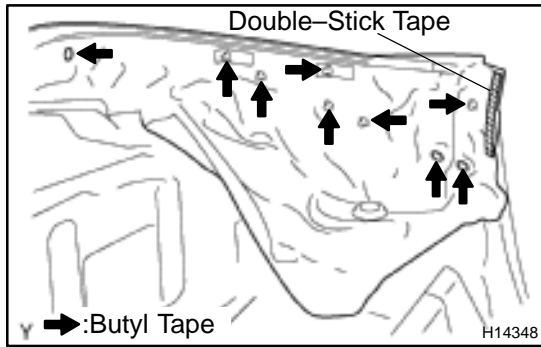
- (a) Apply adhesive to 2 or 3 threads of the mounting screw end.

**Adhesive: Part No. 08833-00070, THREE BOND or equivalent**

- (b) Install the tarpaulin lock with the 3 screws.

**Torque: 62 N·m (630 kgf·cm, 45 ft·lbf)**

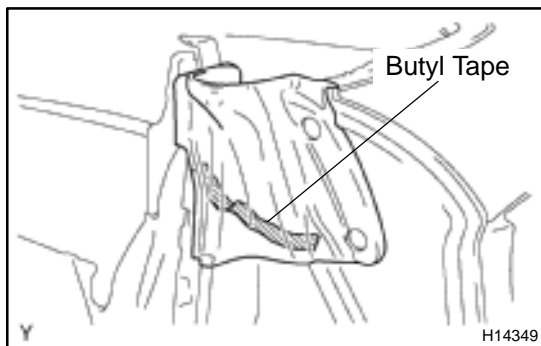
- (c) Employ the same manner described above to the other side.



## INSTALLATION

### 1. INSTALL SIDE GATE SEALS

- Install the double-stick tape as shown in the illustration.
- Apply butyl tape as shown in the illustration.
- Insert the drain hose.
- Insert the hook to the center pillar.
- Peel off the separating sheet of the double adhesive tape and affix the tape to the center pillar.
- Employ the same manner described above to the other side.



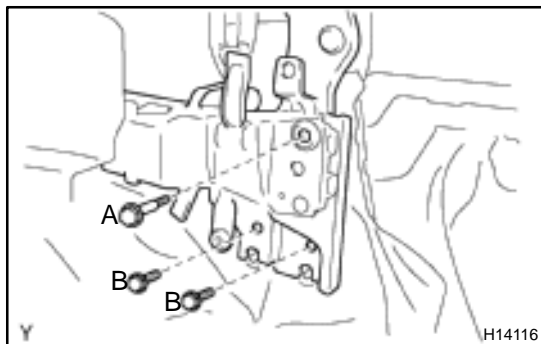
### 2. INSTALL DUST ROOF WEATHERSTRIPS

- Along the groove of the weatherstrip, apply the butyl tape on the weatherstrip.
- Install the pillar seal with the 3 clips.

#### HINT:

Press the weatherstrip with a hand and securely affix the butyl tape.

- Employ the same manner described above to the other side.



### 3. INSTALL TARPAULIN ASSEMBLY

- Install the tarpaulin assembly with the 6 bolts.

#### Torque:

**A: 11 N·m (115 kgf·cm, 8 ft·lbf)**

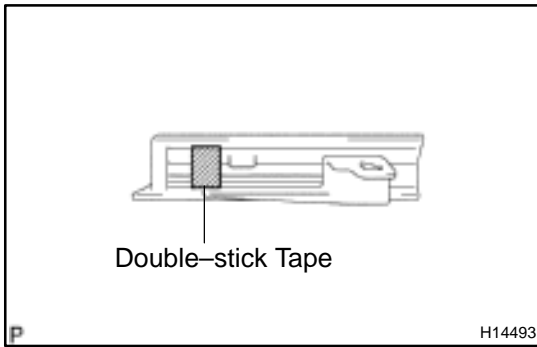
**B: 11 N·m (115 kgf·cm, 8 ft·lbf)**



- Install side gate seal with the clip.

### 4. INSTALL REAR BELT MOULDING

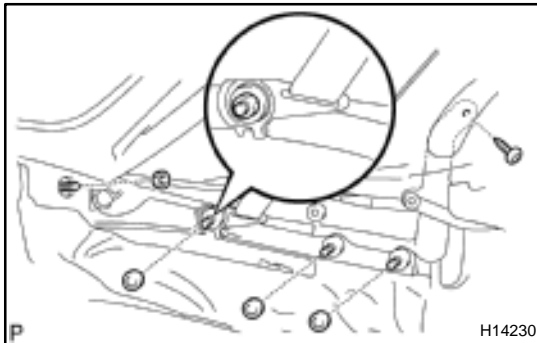
Install the rear belt moulding with the 8 bolts.

**5. INSTALL SIDE BELT MOULDING**

Install the new double-stick tape as shown in the illustration.

**6. INSTALL UPPER TARPAULIN COVER RETAINER**

Install the upper tarpaulin cover retainer with the 7 nuts.

**7. INSTALL TAIL GATE LOWER SEAL****8. INSTALL TARPAULIN COVER SIDE RETAINERS**

- (a) Install the tarpaulin cover side retainer with the 4 nuts and screw.

**NOTICE:**

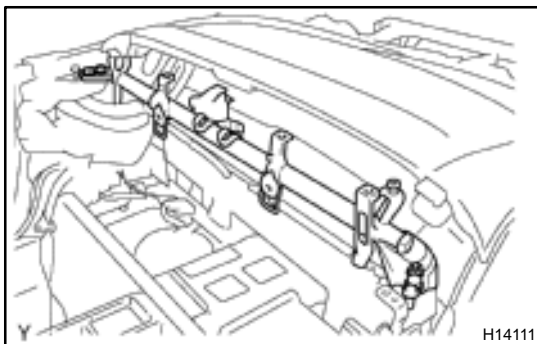
**Tighten the side retainer and band assembly together securely.**

**After opening the tarpaulin, tighten the head of the side retainer together with the side retainer itself.**

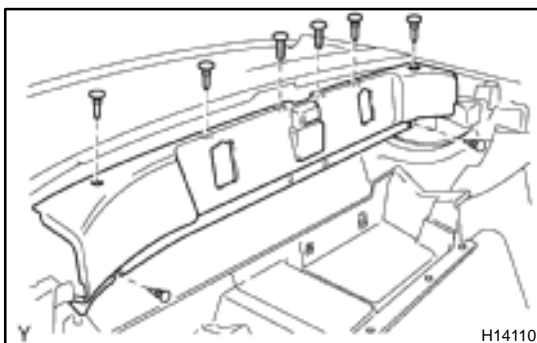
- (b) Install the wire on the side retainer.

**NOTICE:**

**After installation, be sure that the bracket on the wire tip moves lightly.**

**9. INSTALL ROOM PARTITION BOARD****10. INSTALL PACKAGE TRAY TRIM PANEL****11. INSTALL FRONT TOP AND TARPAULIN SUPPORT FRAME**

Install the front top and tarpaulin support frame with the 2 bolts and 2 nuts.

**12. INSTALL LUGGAGE COMPARTMENT COVERS****13. INSTALL UPPER LUGGAGE COMPARTMENT GARNISH**

Install the upper luggage compartment garnish with the 6 clips.

**14. INSTALL PULL HANDLE**

- (a) Install pull handle with the 2 screws.

- (b) Install the cover.

**15. INSTALL WIND DEFLECTOR BOARD**

- (a) Install the deflector board with the 4 nuts.

- (b) Install the window deflector cover.

**16. CONNECT FRONT SEAT OUTER BELTS**

Connect the front seat outer belt with the shoulder anchor mounting bolt.

**Torque: 42 N·m (420 kgf-cm, 30 ft-lbf)**

**17. INSTALL LUGGAGE COMPARTMENT BOXS****18. INSTALL QUARTER TRIM PANELS****19. CONNECT FRONT SEAT OUTER BELTS**

Connect the front seat outer belt with the floor anchor mounting bolt.

**Torque: 42 N·m (420 kgf-cm, 30 ft-lbf)**

**20. INSTALL LOWER REAR NO.1 SEPARATOR TRIM COVERS****21. INSTALL LUGGAGE COMPARTMENT LIDS****22. INSTALL FRONT SCUFF PLATES****23. INSPECT WATER LEAKAGE (See page [BO-80](#))****24. INSPECT TARPAULIN COVER FOR PROPER TENSION AND ALIGNMENT (See page [BO-80](#))**