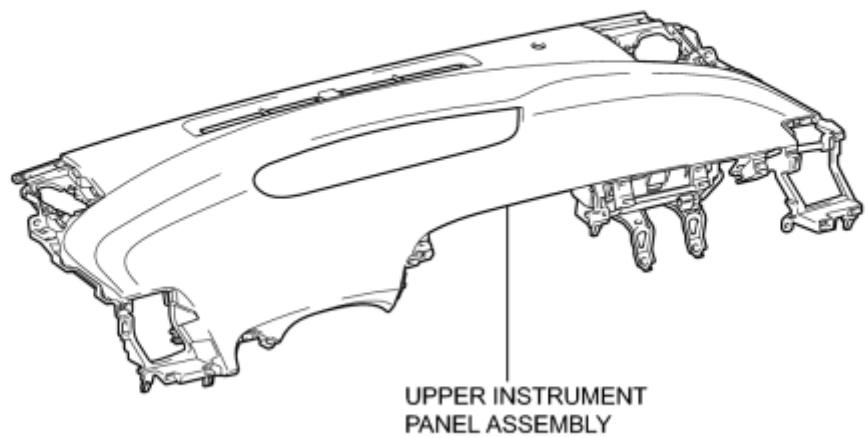


# COMPONENTS

## ILLUSTRATION

AUTOMATIC LIGHT CONTROL SENSOR



P

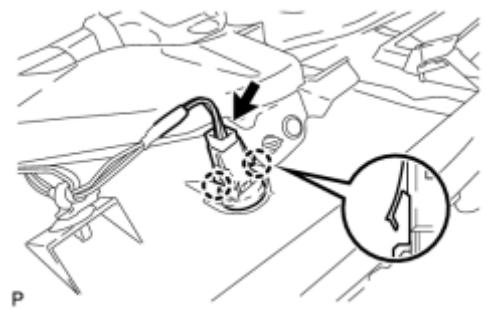
# REMOVAL

## 1. REMOVE UPPER INSTRUMENT PANEL ASSEMBLY

HINT:

Refer to the procedure up to Remove Upper Instrument Panel Assembly .

## 2. REMOVE AUTOMATIC LIGHT CONTROL SENSOR



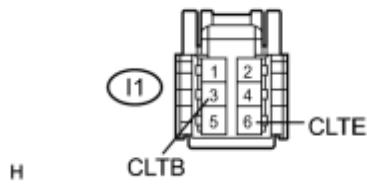
(a) Disconnect the connector.

(b) Disengage the 2 claws and remove the automatic light control sensor.

# INSPECTION

## 1. INSPECT AUTOMATIC LIGHT CONTROL SENSOR

\*1



(a) Disconnect the I1 automatic light control sensor connector.

(b) Measure the voltage and resistance according to the value(s) in the table below.

Standard Voltage:

Tester Connection	Condition	Specified Condition
I1-3 (CLTB) - I1-6 (CLTE)	Power switch off	Below 1 V
	Power switch on (IG)	10 to 14 V

Standard Resistance:

Tester Connection	Condition	Specified Condition
I1-6 (CLTE) - Body ground	Always	Below 1 Ω

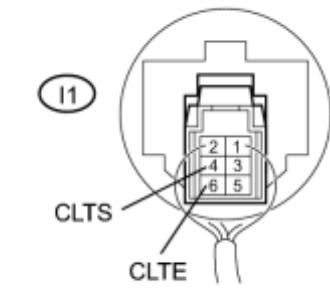
### *Text in Illustration*

*1	Front view of wire harness connector (to Automatic Light Control Sensor)
----	---

If the result is not as specified, there may be a malfunction on the wire harness side.

(c) Reconnect the I1 automatic light control sensor connector.

\*1



H

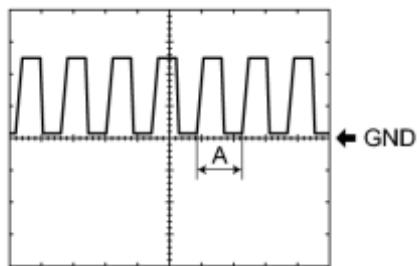
(d) Connect an oscilloscope to the automatic light control sensor connector.

**Text in Illustration**

*1	Component with harness connected (Automatic Light Control Sensor)
----	--

(e) Check the waveform.

OK:



H

Tester Connection	Tool Setting	Condition	Specified Condition
I1-6 (CLTE) - I1-4 (CLTS)	5 V/DIV., 5 ms./DIV	Power switch on (IG), light control switch in AUTO position	Correct waveform is as shown

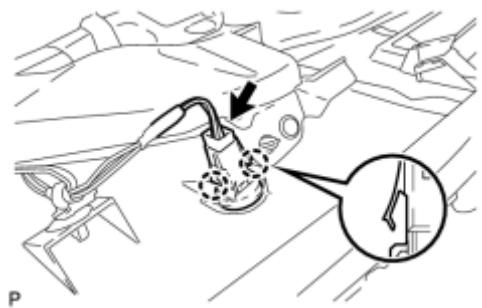
HINT:

If the ambient light becomes brighter, width A becomes narrower.

If the result is not as specified, the automatic light control sensor may have a malfunction.

# INSTALLATION

## 1. INSTALL AUTOMATIC LIGHT CONTROL SENSOR



(a) Engage the 2 claws and install the automatic light control sensor.

(b) Connect the connector.

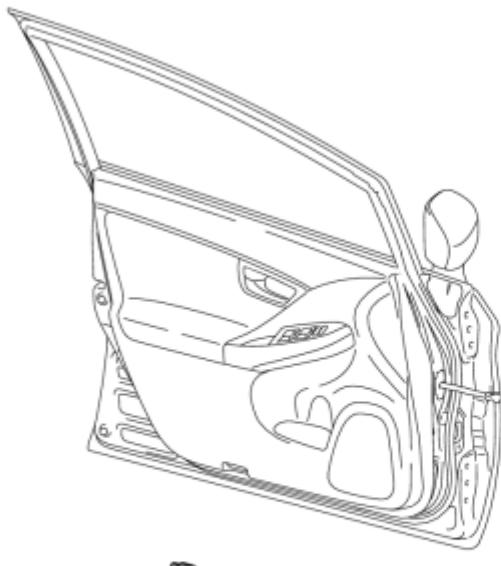
## 2. INSTALL UPPER INSTRUMENT PANEL ASSEMBLY

HINT:

Refer to the procedure from Install Upper Instrument Panel Assembly INFO.

# COMPONENTS

## ILLUSTRATION

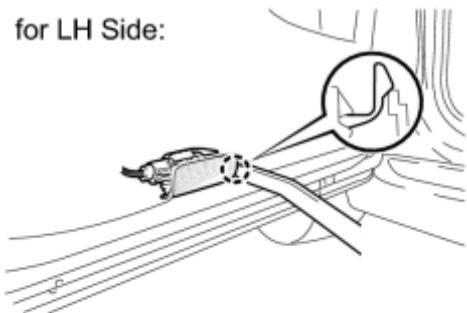


COURTESY LIGHT ASSEMBLY

# REMOVAL

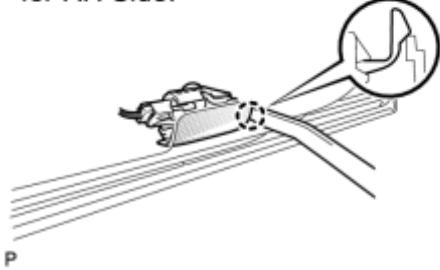
## 1. REMOVE COURTESY LIGHT ASSEMBLY

for LH Side:



(a) Using a moulding remover, disengage the claw.

for RH Side:



(b) Disconnect the connector and remove the courtesy light assembly.

# INSPECTION

## 1. INSPECT COURTESY LIGHT ASSEMBLY

\*1



(a) Connect a positive (+) lead from the battery to terminal 1 and a negative (-) lead to terminal 2.

(b) Check that the courtesy light comes on.

OK:

Courtesy light comes on.

### *Text in Illustration*

\*1

Component without harness connected  
(Courtesy Light Assembly)

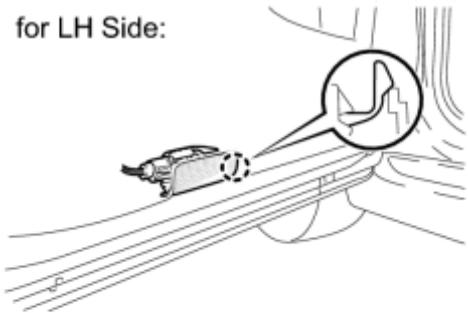
If the result is not as specified, replace the bulb or courtesy light assembly.

# INSTALLATION

## 1. INSTALL COURTESY LIGHT ASSEMBLY

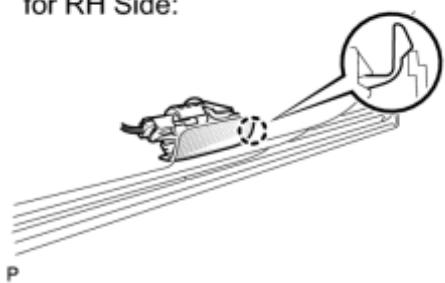
(a) Connect the connector.

for LH Side:



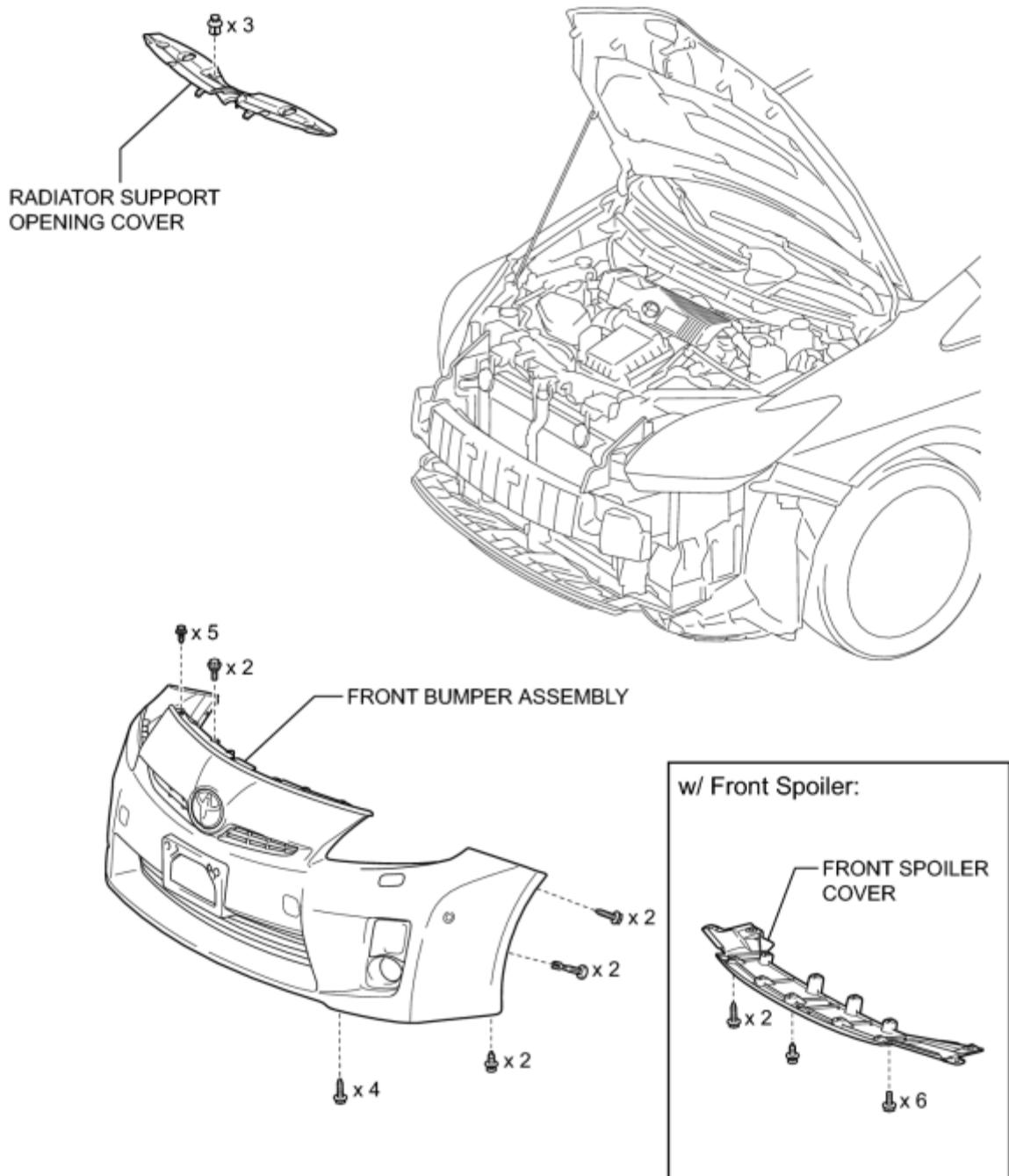
(b) Engage the claw to install the courtesy light assembly.

for RH Side:



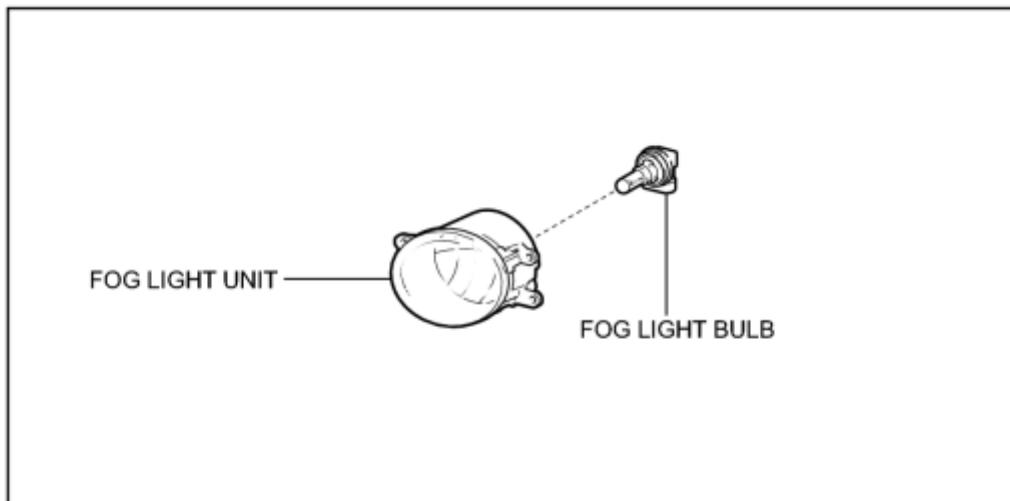
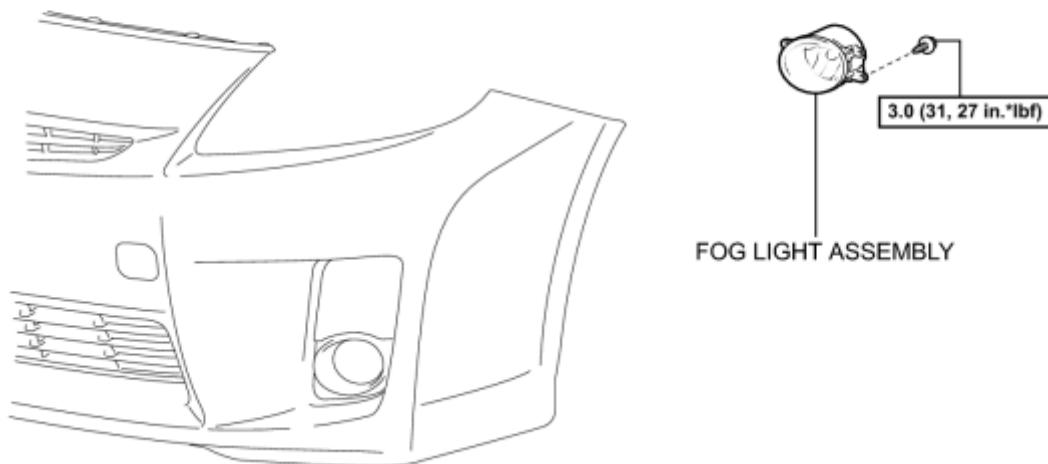
# COMPONENTS

## ILLUSTRATION



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## ILLUSTRATION



**N\*m (kgf\*cm, ft.\*lbf)**: Specified torque

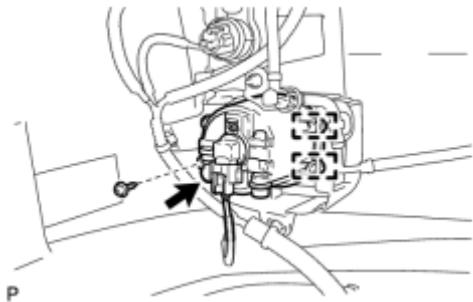
P

# REMOVAL

1. REMOVE RADIATOR SUPPORT OPENING COVER INFO

2. REMOVE FRONT BUMPER ASSEMBLY INFO

3. REMOVE FOG LIGHT ASSEMBLY



(a) Disconnect the connector.

(b) Remove the screw.

(c) Disengage the 2 guides and remove the fog light assembly.

# DISASSEMBLY

## 1. REMOVE FOG LIGHT BULB



P

(a) Turn the fog light bulb in the direction indicated by the arrow shown in the illustration and remove it.

NOTICE:

Do not touch the bulb glass.

# ADJUSTMENT

## HINT:

It is possible that a bulb is incorrectly installed, affecting fog light aim. Bulb installation should be considered prior to performing the adjustment procedure.

## 1. PREPARE VEHICLE FOR FOG LIGHT AIM ADJUSTMENT

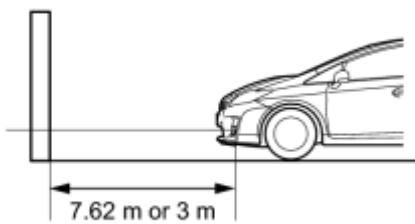
### (a) Prepare the vehicle:

- Ensure there is no damage or deformation to the body around the fog lights.
- Fill the fuel tank.
- Make sure that the oil is filled to the specified level.
- Make sure that the coolant is filled to the specified level.
- Inflate the tires to the appropriate pressure.
- Unload the trunk and vehicle, ensuring that the spare tire, tools and jack are in their original positions.
- Sit a person of average weight (68 kg, 150 lb) in the driver's seat.

## 2. PREPARE FOR FOG LIGHT AIMING

### (a) Prepare the vehicle:

- Place the vehicle in a location that is dark enough to clearly observe the cutoff line. The cutoff line is a distinct line, below which light from the fog lights can be observed and above which it cannot.
- Place the vehicle at a 90° angle to the wall.
- Create a 7.62 m (25 ft.) distance between the vehicle (fog light bulb center) and the wall.
- Make sure that the vehicle is on a level surface.
- Position the front wheels straight ahead.
- Bounce the vehicle up and down to settle the suspension.



### NOTICE:

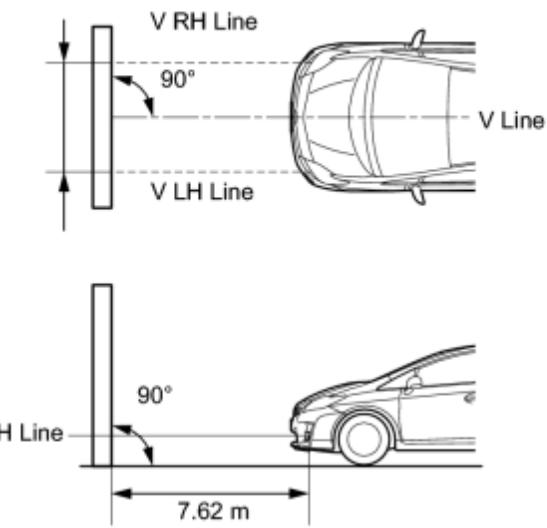
A distance of 7.62 m (25 ft.) between the vehicle (fog light bulb center) and the wall is necessary for proper aim adjustment. If sufficient space is not available, secure a distance of exactly 3 m (9.84 ft.) to allow for checking and adjustment of fog light aim. (The size of the target zone will change with the distance, so follow the instructions in the illustration.)

(b) Prepare a piece of thick white paper (approximately 2 m (6.6 ft.) (height) x 4 m (13.1 ft.) (width)) to use as a screen.

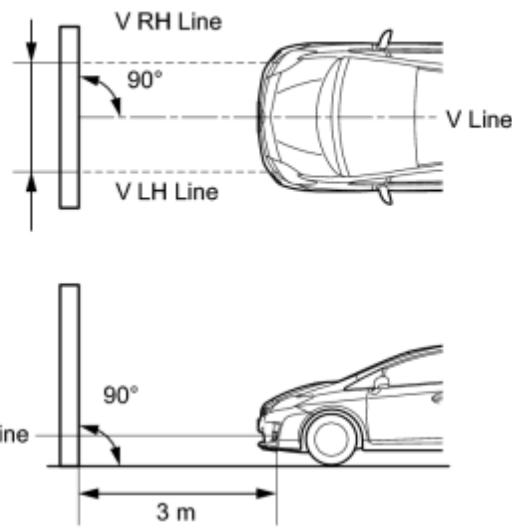
(c) Draw a vertical line down the center of the screen (V line).

(d) Set the screen as shown in the illustration.

Alignment distance is 7.62 m:



Alignment distance is 3 m:



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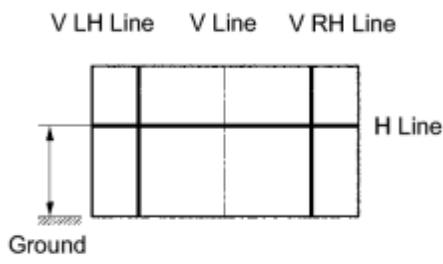
HINT:

- Stand the screen perpendicular to the ground.
- Align the V line on the screen with the center of the vehicle.

(e) Draw base lines (H, V LH, and V RH lines) on the screen as shown in the illustration.

HINT:

Mark the fog light bulb center marks on the screen. If the center mark cannot be observed on the fog light, use the center of the fog light bulb or the manufacturer's name marked on the fog light as the center mark.



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(1) H Line (Fog light height):

Draw a horizontal line across the screen so that it passes through the center marks. The H line should be at the same height as the fog light bulb center marks of the fog lights.

(2) V LH Line, V RH Line (Center mark position of left-hand (LH) and right-hand (RH) fog lights):

Draw two vertical lines so that they intersect the H line at each center mark (aligned with the center of the fog light bulbs).

### 3. INSPECT FOG LIGHT AIMING

(a) Cover the fog light or disconnect the connector of the fog light on the opposite side to prevent light from the fog light that is not being inspected from affecting the fog light aiming inspection.

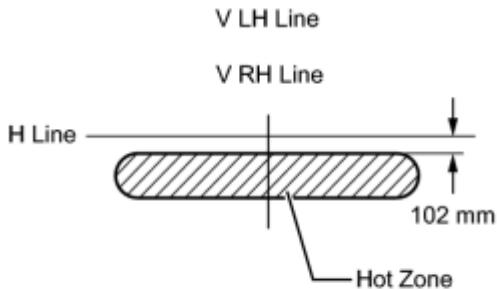
## NOTICE:

Do not keep the fog light covered for more than 3 minutes. The fog light lens is made of synthetic resin, which may melt or be damaged due to excessive heat.

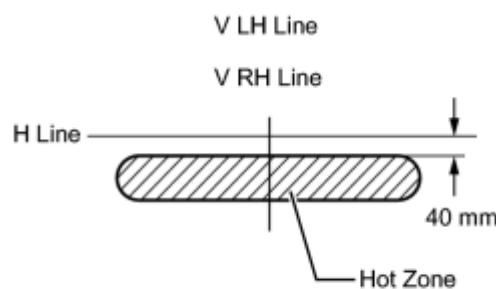
(b) Start the engine.

(c) Turn on the fog lights and check if the upper edge of the hot zone for each fog light matches the upper edge as shown in the illustration.

Alignment distance is 7.62 m:



Alignment distance is 3 m:



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## HINT:

- If the alignment distance is 7.62 m (25 ft.):

The upper edge of the hot zone for the fog light should be 102 mm (4.02 in.) below the H line.

- If the alignment distance is 3 m (9.84 ft.):

The upper edge of the hot zone for the fog light should be 40 mm (1.58 in.) below the H line.

## 4. ADJUST FOG LIGHT AIMING

(a) Adjust the aim vertically:

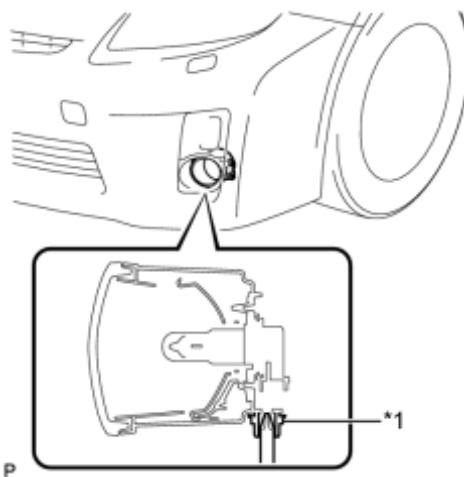
Adjust the aim of each fog light to the specified range by turning each aiming screw with a screwdriver.

## Text in Illustration

*1	Aiming Screw
----	--------------

## NOTICE:

The final turn of the aiming screw should be made in the clockwise



direction. If the screw is tightened excessively, loosen it and then retighten it, so that the final turn of the screw is in the clockwise direction.

**HINT:**

If it is not possible to correctly adjust fog light aim, check bulb, fog light unit and fog light unit reflector installation.

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# REASSEMBLY

## 1. INSTALL FOG LIGHT BULB



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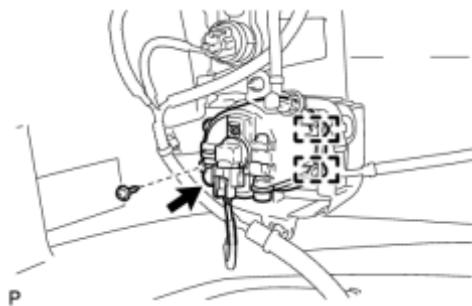
(a) Turn the fog light bulb in the direction indicated by the arrow shown in the illustration to install it.

NOTICE:

Do not touch the bulb glass.

# INSTALLATION

## 1. INSTALL FOG LIGHT ASSEMBLY



(a) Engage the 2 guides.

(b) Install the fog light assembly with the screw.

Torque: **3.0 N·m (31 kgf·cm, 27 in·lbf)**

(c) Connect the connector.

## 2. INSTALL FRONT BUMPER ASSEMBLY INFO

## 3. INSTALL RADIATOR SUPPORT OPENING COVER INFO

## 4. ADD WASHER FLUID (w/ Headlight Cleaner System) INFO

## 5. PREPARE VEHICLE FOR FOG LIGHT AIM ADJUSTMENT INFO

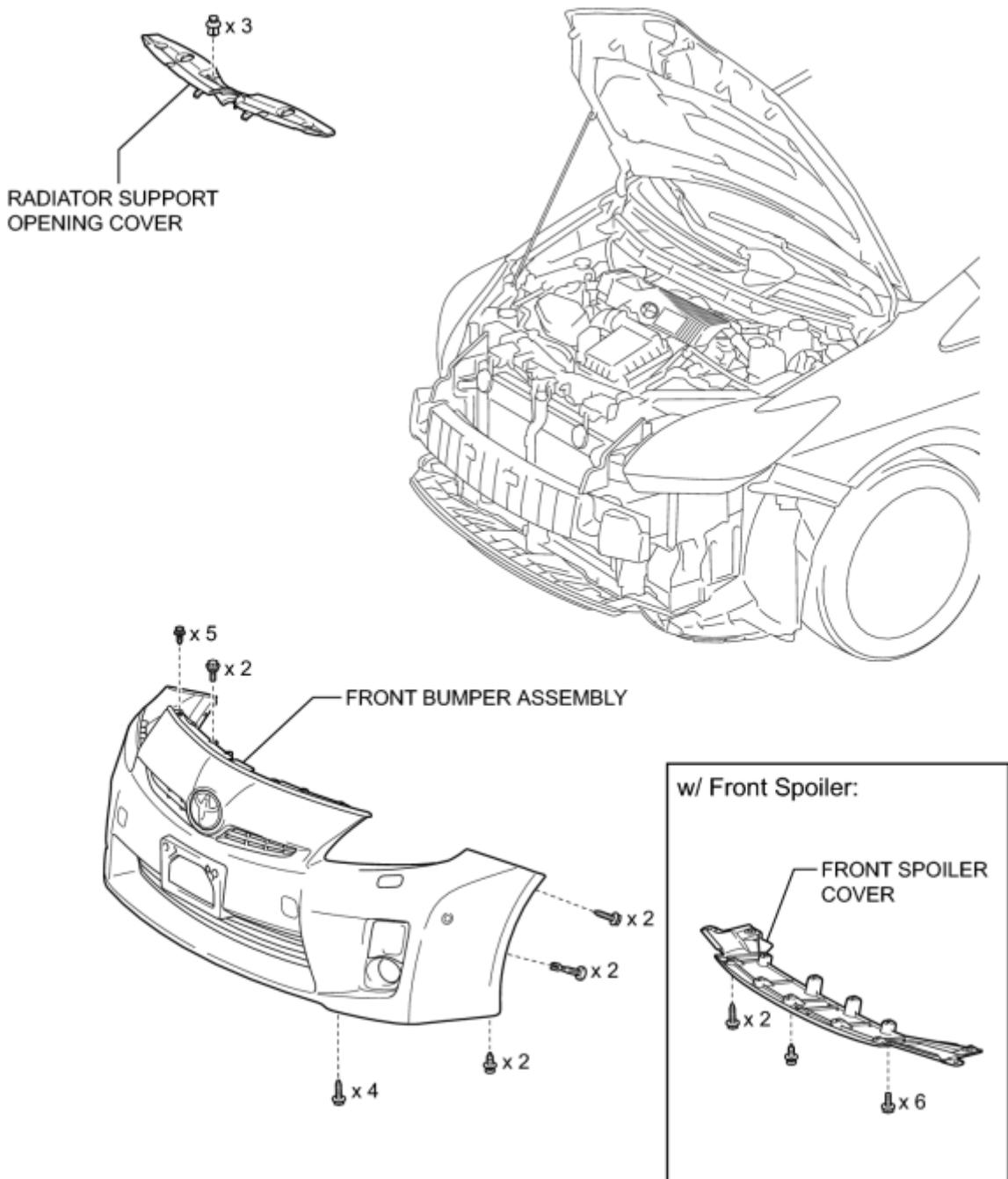
## 6. PREPARE FOR FOG LIGHT AIMING INFO

## 7. INSPECT FOG LIGHT AIMING INFO

## 8. ADJUST FOG LIGHT AIMING INFO

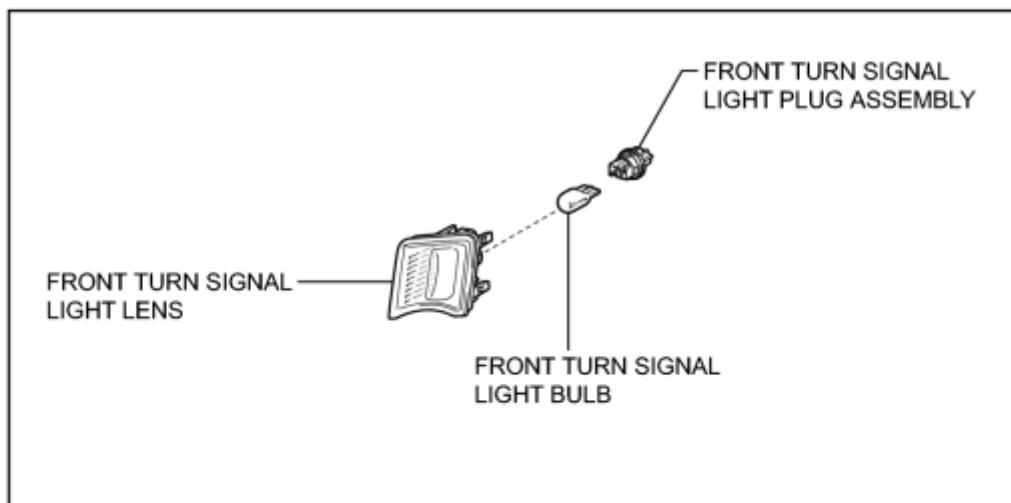
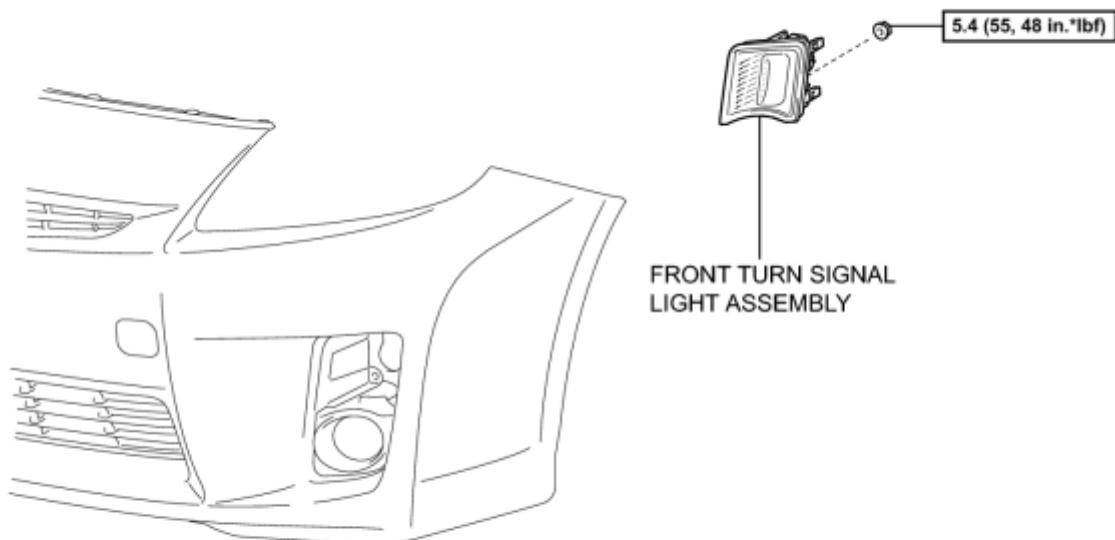
# COMPONENTS

## ILLUSTRATION



P

## ILLUSTRATION



**N·m (kgf·cm, ft.·lbf)**: Specified torque

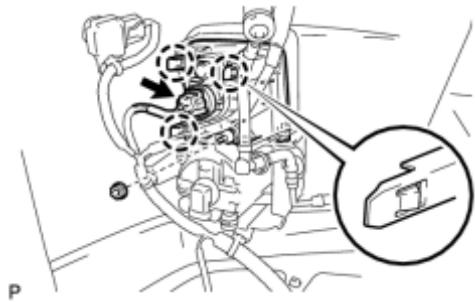
P

# REMOVAL

1. REMOVE RADIATOR SUPPORT OPENING COVER INFO

2. REMOVE FRONT BUMPER ASSEMBLY INFO

3. REMOVE FRONT TURN SIGNAL LIGHT ASSEMBLY

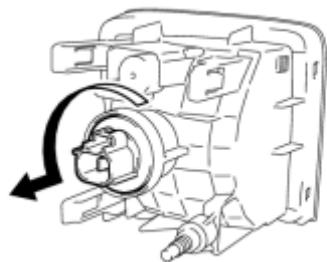


(a) Disconnect the connector.

(b) Remove the nut.

(c) Disengage the 3 claws and remove the front turn signal light assembly.

4. REMOVE FRONT TURN SIGNAL LIGHT BULB



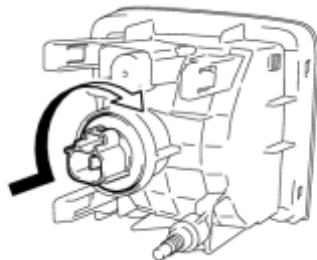
(a) Turn the front turn signal light bulb and front turn signal light plug assembly in the direction indicated by the arrow shown in the illustration, and remove them as a unit.

(b) Remove the front turn signal light bulb from the front turn signal light plug assembly.

# INSTALLATION

## 1. INSTALL FRONT TURN SIGNAL LIGHT BULB

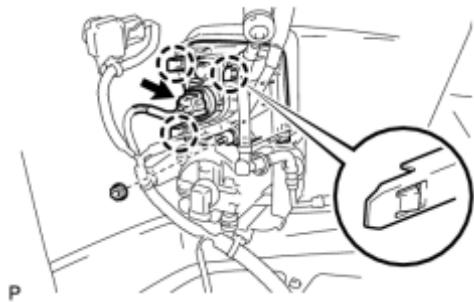
(a) Install the front turn signal light bulb to the front turn signal light plug assembly.



P

(b) Turn the front turn signal light bulb and front turn signal light plug assembly in the direction indicated by the arrow shown in the illustration and install them as a unit.

## 2. INSTALL FRONT TURN SIGNAL LIGHT ASSEMBLY



(b) Install the front turn signal light assembly with the nut.

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

(c) Connect the connector.

## 3. INSTALL FRONT BUMPER ASSEMBLY INFO

## 4. INSTALL RADIATOR SUPPORT OPENING COVER INFO

## 5. ADD WASHER FLUID (w/ Headlight Cleaner System) INFO

## 6. PREPARE VEHICLE FOR FOG LIGHT AIM ADJUSTMENT (w/ Fog Light) INFO

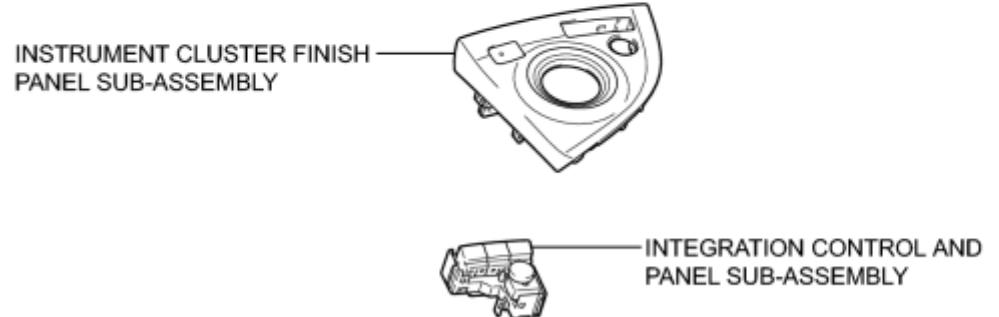
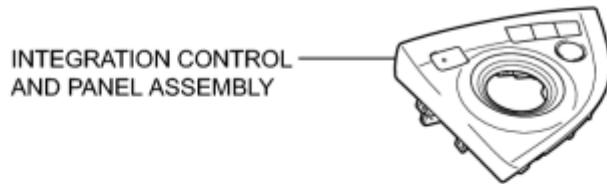
## 7. PREPARE FOR FOG LIGHT AIMING (w/ Fog Light) INFO

## 8. INSPECT FOG LIGHT AIMING (w/ Fog Light) INFO

## 9. ADJUST FOG LIGHT AIMING (w/ Fog Light)

# COMPONENTS

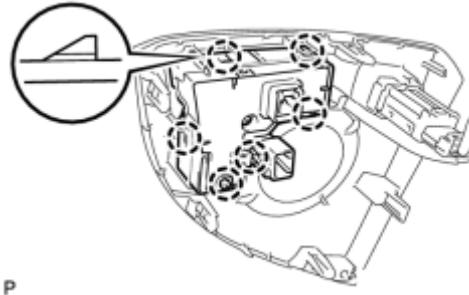
## ILLUSTRATION



# REMOVAL

## 1. REMOVE INTEGRATION CONTROL AND PANEL ASSEMBLY INFO

## 2. REMOVE INTEGRATION CONTROL AND PANEL SUB-ASSEMBLY



(a) Using a screwdriver, disengage the 6 claws and remove the integration control and panel sub-assembly.

P

# INSPECTION

## 1. INSPECT INTEGRATION CONTROL AND PANEL SUB-ASSEMBLY

(a) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

\*1



Tester Connection	Switch Condition	Specified Condition
8 (F) - 5 (E)	Hazard warning switch off	10 kΩ or higher
	Hazard warning switch on	Below 1 Ω

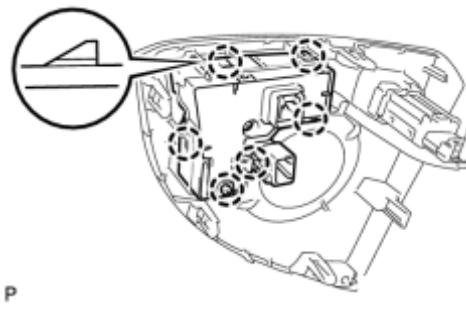
### Text in Illustration

*1	Component without harness connected (Integration Control and Panel Sub-assembly)
----	---

If the result is not as specified, replace the integration control and panel sub-assembly.

# INSTALLATION

## 1. INSTALL INTEGRATION CONTROL AND PANEL SUB-ASSEMBLY

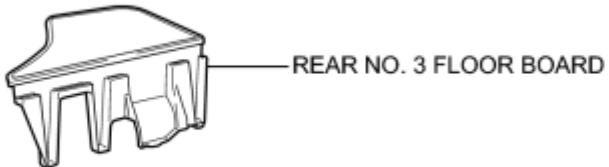


(a) Engage the 6 claws and install the integration control and panel sub-assembly.

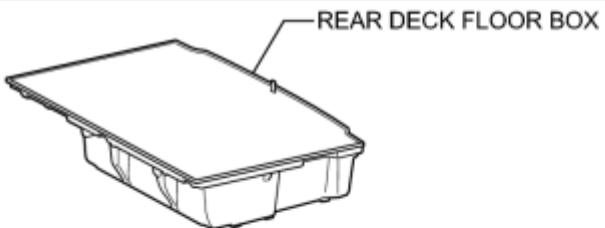
## 2. INSTALL INTEGRATION CONTROL AND PANEL ASSEMBLY INFO

## COMPONENTS

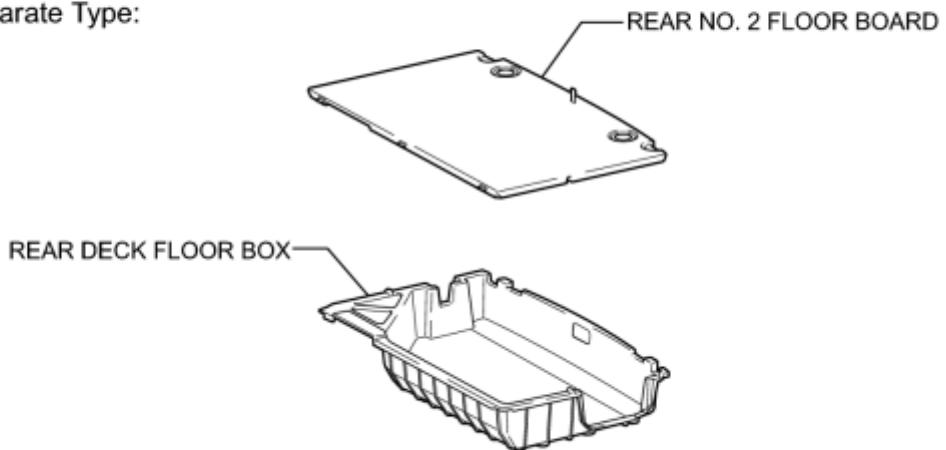
### ILLUSTRATION



for Integrated Type:

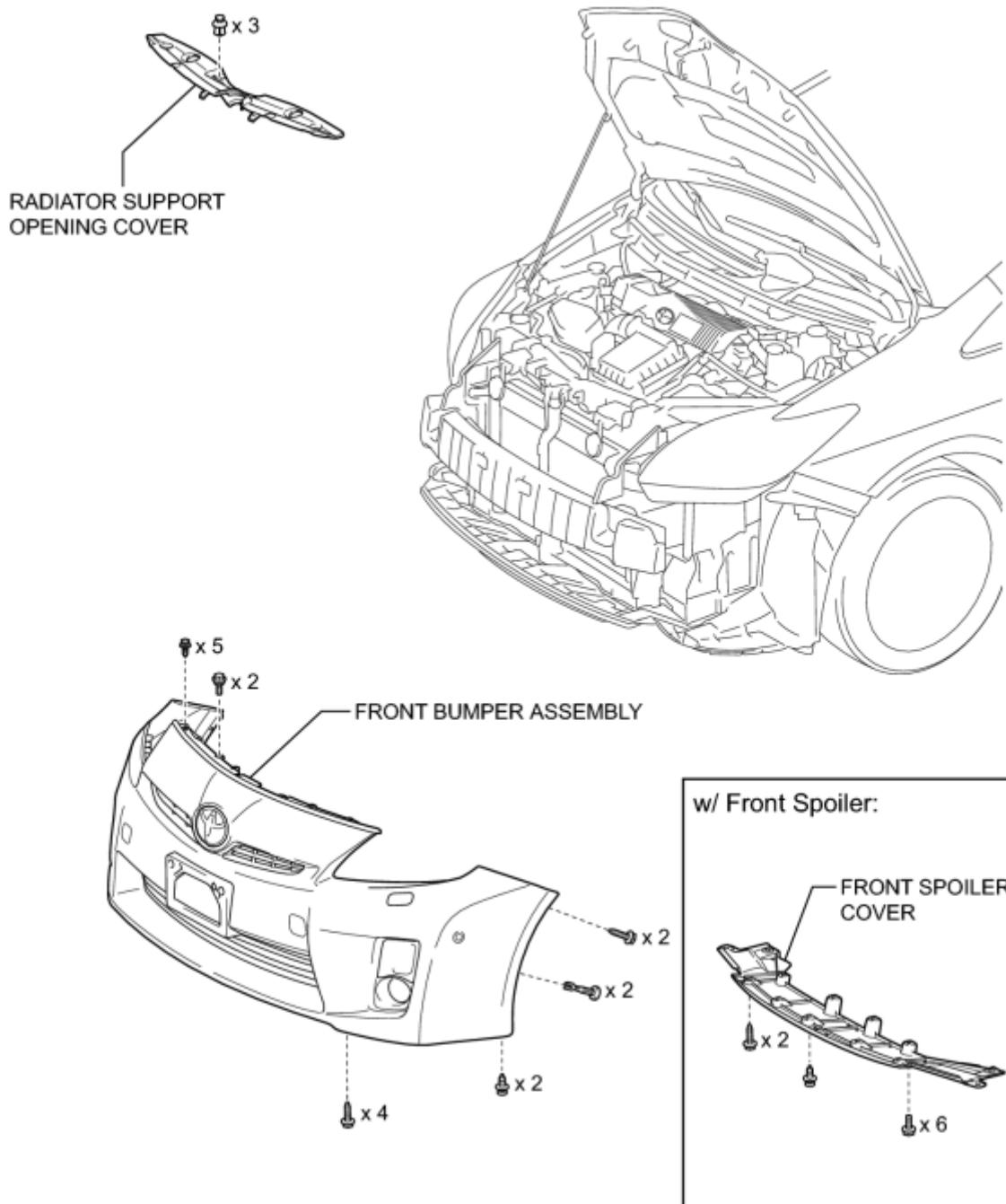


for Separate Type:



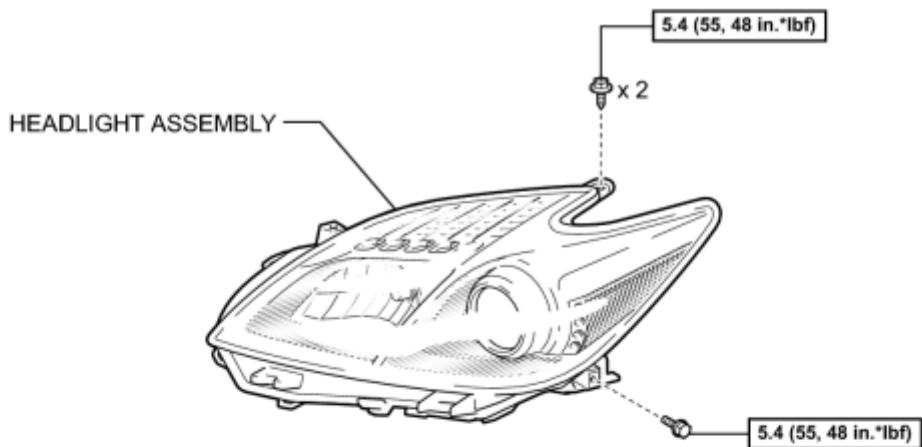
P

### ILLUSTRATION

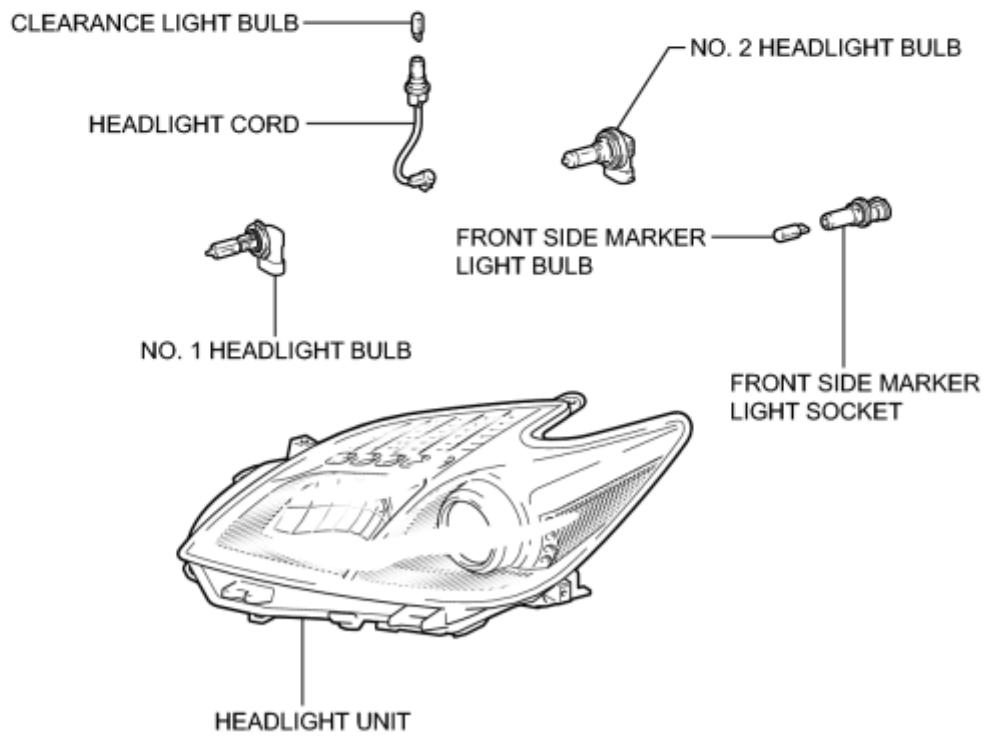


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## ILLUSTRATION



for Halogen Headlight:

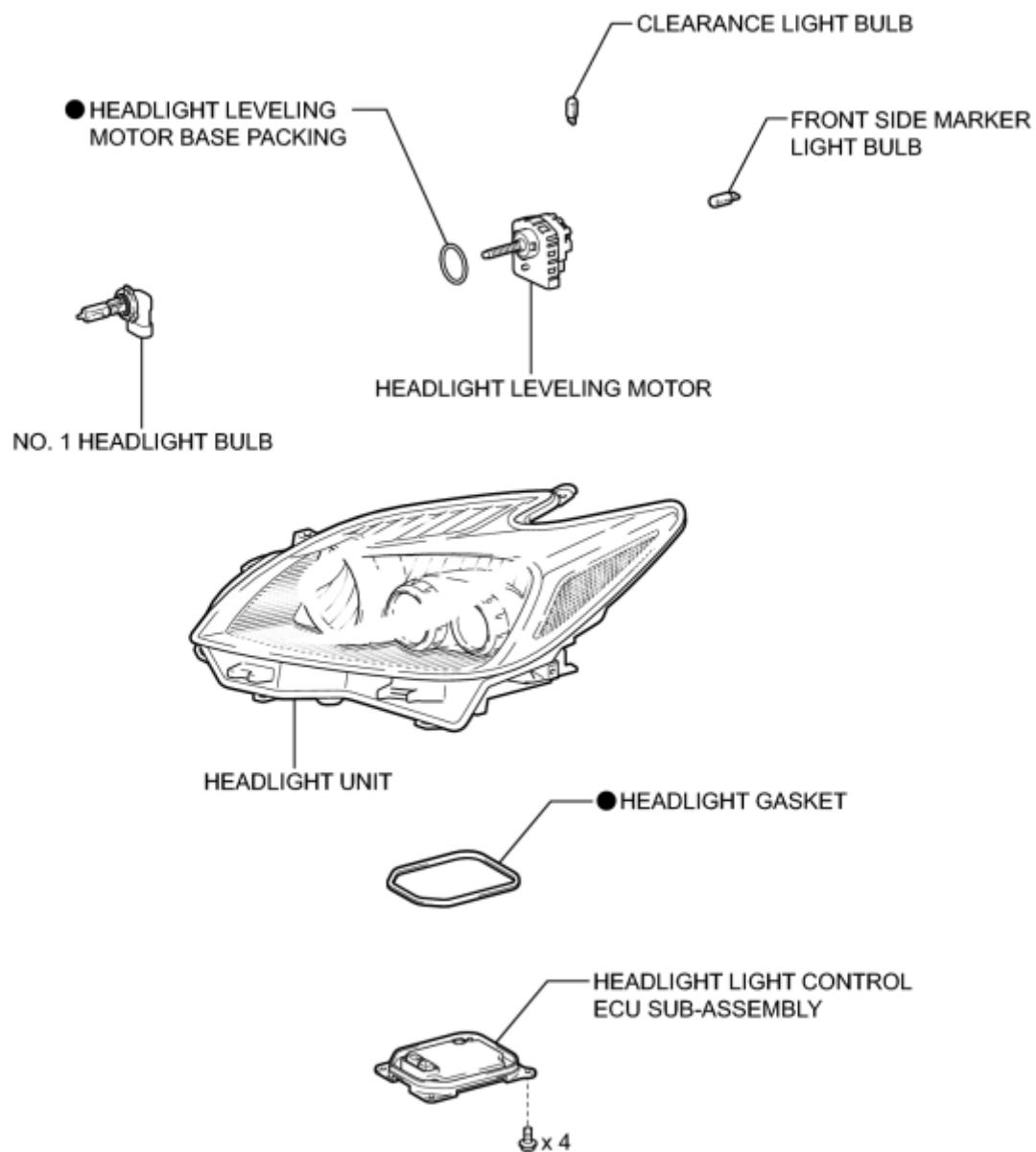


[N·m (kgf·cm, ft.·lbf)]: Specified torque

P

## ILLUSTRATION

for LED Headlight:

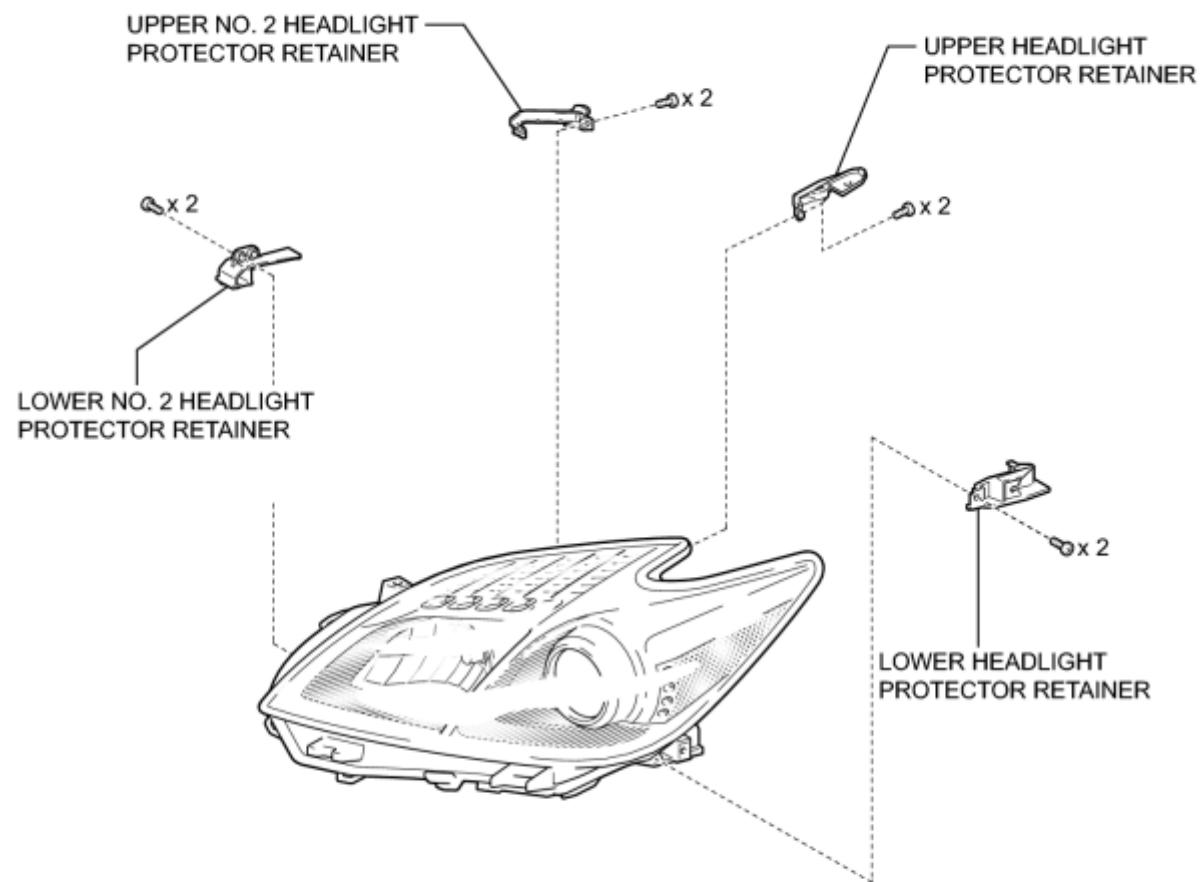


● Non-reusable part

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## ILLUSTRATION

Bracket for Repair:



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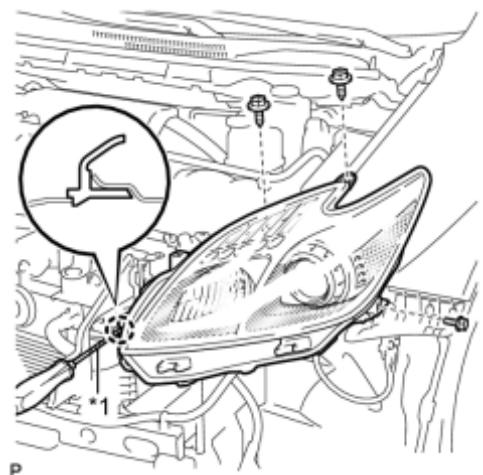
# REMOVAL

1. REMOVE REAR NO. 2 FLOOR BOARD (for Separate Type) INFO
2. REMOVE REAR DECK FLOOR BOX INFO
3. REMOVE REAR NO. 3 FLOOR BOARD INFO
4. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

## NOTICE:

When disconnecting the cable, some systems need to be initialized after the cable is reconnected INFO.

5. REMOVE RADIATOR SUPPORT OPENING COVER INFO
6. REMOVE FRONT BUMPER ASSEMBLY INFO
7. REMOVE HEADLIGHT ASSEMBLY



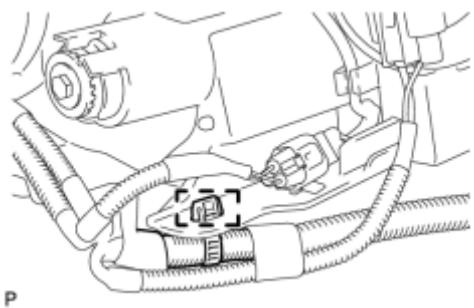
(a) Remove the bolt and 2 screws.

(b) Using a screwdriver wrapped with protective tape, disengage the claw.

### *Text in Illustration*

*1	Protective Tape
----	-----------------

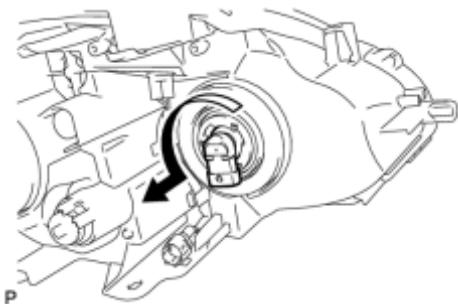
(c) Disengage the clamp.



(d) Disconnect each connector and remove the headlight assembly.

# DISASSEMBLY

## 1. REMOVE NO. 1 HEADLIGHT BULB

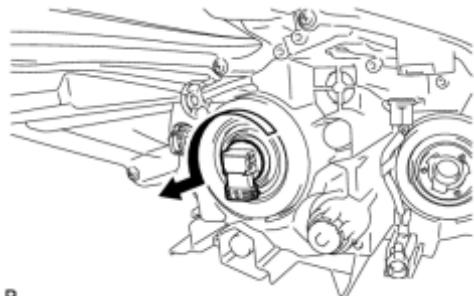


(a) Turn the No. 1 headlight bulb in the direction indicated by the arrow shown in the illustration, and remove it.

NOTICE:

Do not touch the bulb glass.

## 2. REMOVE NO. 2 HEADLIGHT BULB (for Halogen Headlight)

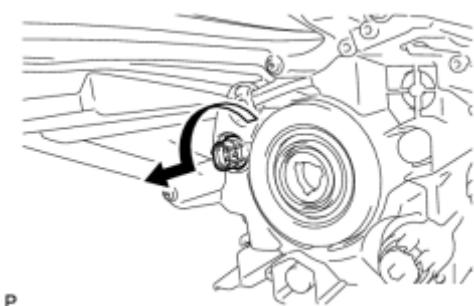


(a) Turn the No. 2 headlight bulb in the direction indicated by the arrow shown in the illustration, and remove it.

NOTICE:

Do not touch the bulb glass.

## 3. REMOVE FRONT SIDE MARKER LIGHT BULB (for Halogen Headlight)

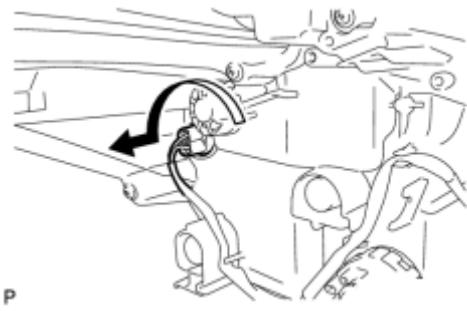


(a) Turn the front side marker light bulb and front side marker light socket in the direction indicated by the arrow shown in the illustration, and remove them as a unit.

(b) Remove the front side marker light bulb from the front side marker light socket.

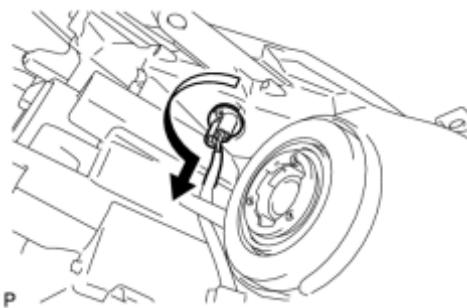
## 4. REMOVE FRONT SIDE MARKER LIGHT BULB (for LED Headlight)

(a) Turn the front side marker light bulb and headlight cord in the direction indicated by the arrow shown in the illustration, and disconnect them as a unit.



(b) Remove the front side marker light bulb from the front side marker light socket.

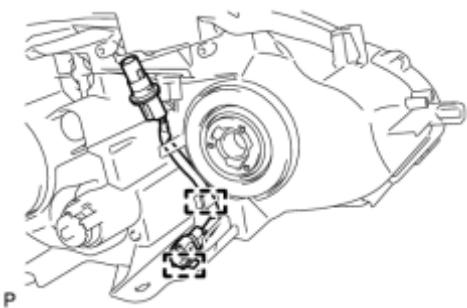
## 5. REMOVE CLEARANCE LIGHT BULB



(a) Turn the clearance light bulb and headlight cord in the direction indicated by the arrow shown in the illustration, and disconnect them as a unit.

(b) Remove the clearance light bulb from the clearance light socket.

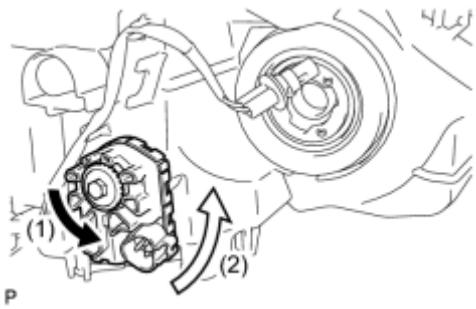
## 6. REMOVE HEADLIGHT CORD (for Halogen Headlight)



(a) Disengage the 2 clamps and remove the headlight cord.

## 7. REMOVE HEADLIGHT LEVELING MOTOR (for LED Headlight)

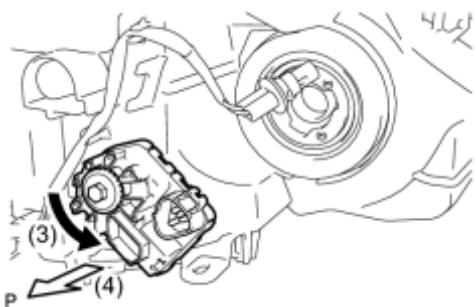
(a) Turn the aiming screw of the headlight leveling motor in the direction indicated by the arrow (1) shown in the illustration.



(b) Turn the headlight leveling motor in the direction indicated by the arrow (2) shown in the illustration to release it.

HINT:

When removing the headlight leveling motor of the headlight assembly RH, turn the headlight leveling motor in the opposite direction indicated by the arrow (2) shown in the illustration.



(c) Turn the aiming screw of the headlight leveling motor in the direction indicated by the arrow (3) shown in the illustration to disengage the shaft.

(d) Pull out the headlight leveling motor in the direction indicated by the arrow (4) shown in the illustration to remove it.

## 8. REMOVE HEADLIGHT LEVELING MOTOR BASE PACKING (for LED Headlight)

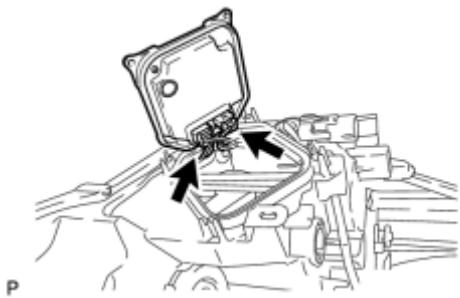
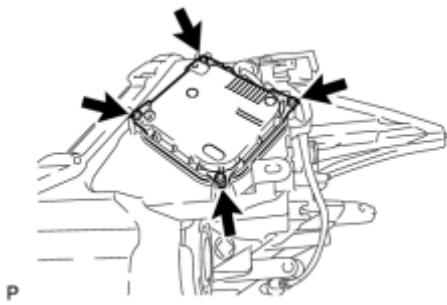
(a) Remove the headlight leveling motor base packing.

NOTICE:

After the headlight leveling motor base packing is removed, be sure to replace it with a new one. Failure to do this may cause water ingress.

## 9. REMOVE HEADLIGHT LIGHT CONTROL ECU SUB-ASSEMBLY (for LED Headlight)

(a) Remove the 4 screws and disconnect the headlight light control ECU sub-assembly.



(b) Disconnect the 2 connectors and remove the headlight light control ECU sub-assembly.

## 10. REMOVE HEADLIGHT GASKET (for LED Headlight)

(a) Remove the headlight gasket.

### NOTICE:

After the headlight gasket is removed, be sure to replace it with a new one. Failure to do this may cause water ingress.

# ADJUSTMENT

## HINT:

It is possible that a bulb is incorrectly installed, affecting headlight aim. Bulb installation should be considered prior to performing the adjustment procedure.

## 1. PREPARE VEHICLE FOR HEADLIGHT AIM ADJUSTMENT

### (a) Prepare the vehicle:

- Ensure there is no damage or deformation to the body around the headlights.
- Fill the fuel tank.
- Make sure that the oil is filled to the specified level.
- Make sure that the coolant is filled to the specified level.
- Inflate the tires to the appropriate pressure.
- Unload the trunk and vehicle, ensuring that the spare tire, tools and jack are in their original positions.
- Sit a person of average weight (68 kg, 150 lb) in the driver's seat.

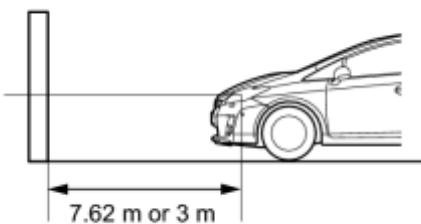
## 2. PREPARE FOR HEADLIGHT AIMING (Using a headlight aim test machine)

### (a) Adjust the headlight aim in accordance with the headlight aim test machine instructions.

## 3. PREPARE FOR HEADLIGHT AIMING (Using a screen)

### (a) Prepare the vehicle:

- Place the vehicle in a location that is dark enough to clearly observe the cutoff line. The cutoff line is a distinct line, below which light from the headlights can be observed and above which it cannot.
- Place the vehicle at a 90° angle to the wall.
- Create a 7.62 m (25 ft.) distance between the vehicle (headlight bulb center) and the wall.
- Make sure that the vehicle is on a level surface.
- Position the front wheels straight ahead.
- Bounce the vehicle up and down to settle the suspension.



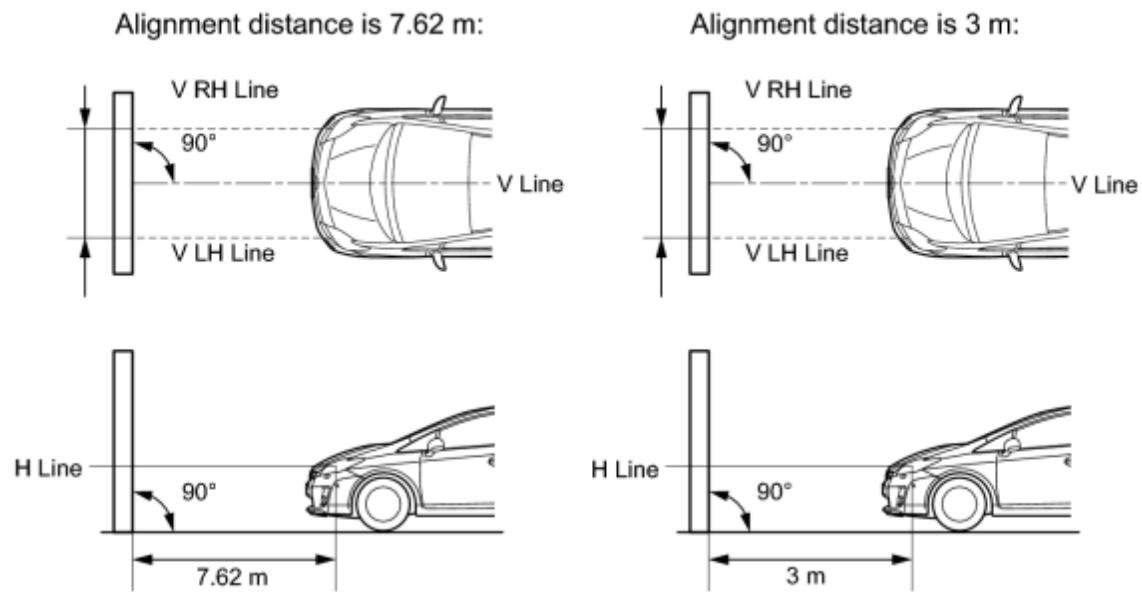
### NOTICE:

A distance of 7.62 m (25 ft.) between the vehicle (headlight bulb center) and the wall is necessary for proper aim adjustment. If sufficient space is not available, secure a distance of exactly 3 m (9.84 ft.) to allow for checking and adjustment of headlight aim. (The size of the target zone will change with the distance, so follow the instructions in the illustration.)

### (b) Prepare a piece of thick white paper (approximately 2 m (6.6 ft.) (height) x 4 m (13.1 ft.) (width)) to use as a screen.

### (c) Draw a vertical line down the center of the screen (V line).

(d) Set the screen as shown in the illustration.

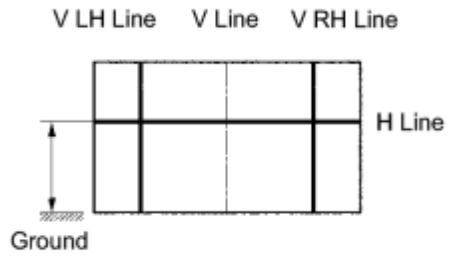


HINT:

- Stand the screen perpendicular to the ground.
- Align the V line on the screen with the center of the vehicle.

(e) Draw base lines (H, V LH, and V RH lines) on the screen as shown in the illustration.

- The base lines differ for "low beam inspection" and "high beam inspection".
- Mark the headlight bulb center marks on the screen. If the center mark cannot be observed on the headlight, use the center of the headlight bulb or the manufacturer's name marked on the headlight as the center mark.



(1) H Line (Headlight height):

Draw a horizontal line across the screen so that it passes through the center marks. The H line should be at the same height as the headlight bulb center marks of the low beam headlights.

(2) V LH Line, V RH Line (Center mark position of left-hand (LH) and right-hand (RH) headlights):

Draw two vertical lines so that they intersect the H line at each center mark (aligned with the center of the low beam headlight bulbs).

#### 4. INSPECT HEADLIGHT AIMING

(a) Cover the headlight or disconnect the connector of the headlight on the opposite side to prevent light from the headlight that is not being inspected from affecting the headlight aiming inspection.

**NOTICE:**

Do not keep the headlight covered for more than 3 minutes. The headlight lens is made of synthetic resin, which may melt or be damaged due to excessive heat.

**HINT:**

When checking the aim of the high beam, cover the low beam or disconnect the connector.

(b) Start the engine.

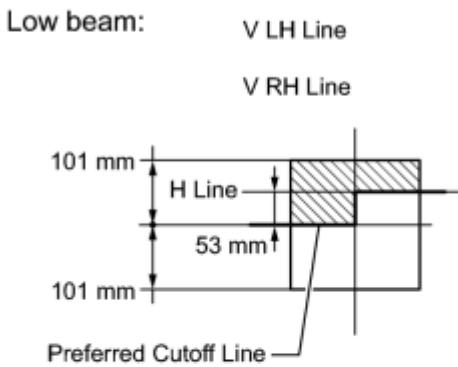
(c) Turn on the headlights and check the aiming of each beam.

**HINT:**

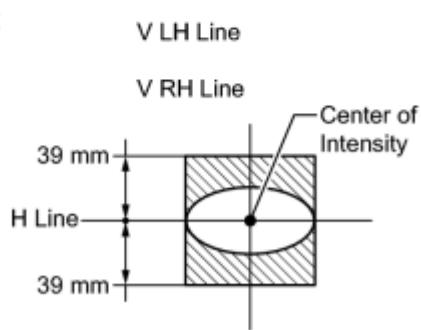
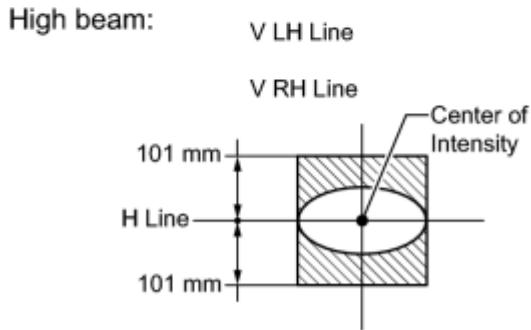
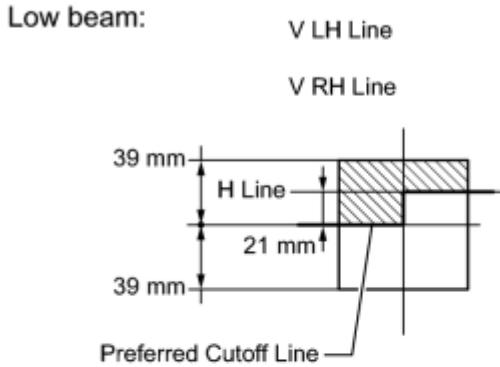
Preferred position for the low beam: Matches preferred cutoff line shown in the illustration

Preferred position for the high beam: Matches center of intensity shown in the illustration

Alignment distance is 7.62 m:



Alignment distance is 3 m:



## HINT:

- Since the low beam light and the high beam light are a unit, if the aim on the low beam is correct, the high beam should also be correct. However, check both beams just to make sure.
- If the alignment distance is 7.62 m (25 ft.):

The left half of the low beam cutoff line should be within 101 mm (3.97 in.) above or below a line drawn 53 mm (2.09 in.) below the H line (SAEJ599).

- If the alignment distance is 3 m (9.84 ft.):

The left half of the low beam cutoff line should be within 39 mm (1.56 in.) above or below a line drawn 21 mm (0.825 in.) below the H line (SAEJ599).

- If the alignment distance is 7.62 m (25 ft.):

The high beam center of intensity should be within 101 mm (3.97 in.) above or below the H line (SAE J599).

- If the alignment distance is 3 m (9.84 ft.):

The high beam center of intensity should be within 39 mm (1.56 in.) above or below the H line (SAE J599).

- If the alignment distance is 7.62 m (25 ft.):

The left half of the low beam cutoff line should be 53 mm (2.09 in.) below the H line (preferred cutoff line target).

- If the alignment distance is 3 m (9.84 ft.):

The left half of the low beam cutoff line should be 21 mm (0.825 in.) below the H line (preferred cutoff line target).

- If the alignment distance is 7.62 m (25 ft.):

The high beam center of intensity should be on the H line (preferred center of intensity).

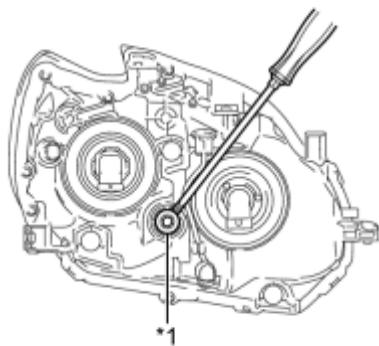
- If the alignment distance is 3 m (9.84 ft.):

The high beam center of intensity should be on the H line (preferred center of intensity).

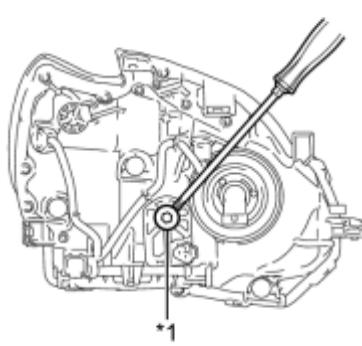
## 5. ADJUST HEADLIGHT AIMING

### (a) Adjust the aim vertically:

for Halogen Headlight:



for LED Headlight:



P

#### **Text in Illustration**

*1	Aiming Screw	-	-
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Adjust the aim of each headlight to the specified range by turning each aiming screw with a screwdriver.

#### **NOTICE:**

The final turn of the aiming screw should be made in the clockwise direction. If the screw is tightened excessively, loosen it and then retighten it, so that the final turn of the screw is in the clockwise direction.

#### **HINT:**

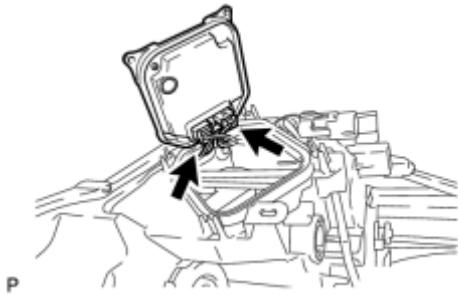
- Since the low beam light and the high beam light are a unit, if the aim on the low beam is correct, the high beam should also be correct. However, check both beams just to make sure.
- If it is not possible to correctly adjust headlight aim, check bulb, headlight unit and headlight unit reflector installation.
- The headlight aim moves down when turning the aiming screw clockwise, and moves up when turning the aiming screw counterclockwise.
- Confirm the direction of rotation of the aiming screw by observing it while it is being adjusted. Due to the position of the screwdriver, the direction of rotation of the adjusting screw can be different than the direction of rotation of the screwdriver being used to adjust it.

# REASSEMBLY

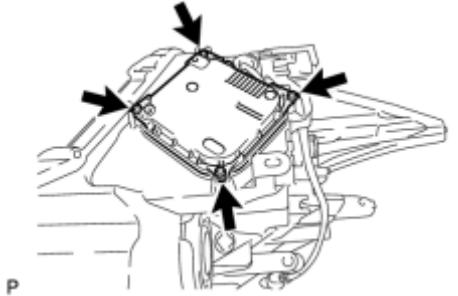
## 1. INSTALL HEADLIGHT GASKET (for LED Headlight)

(a) Install a new headlight gasket.

## 2. INSTALL HEADLIGHT LIGHT CONTROL ECU SUB-ASSEMBLY (for LED Headlight)



(a) Connect the 2 connectors.

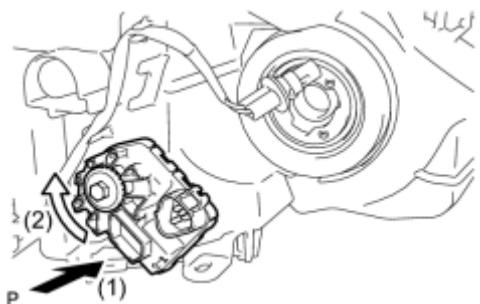


(b) Install the headlight light control ECU sub-assembly with the 4 screws.

## 3. INSTALL HEADLIGHT LEVELING MOTOR BASE PACKING (for LED Headlight)

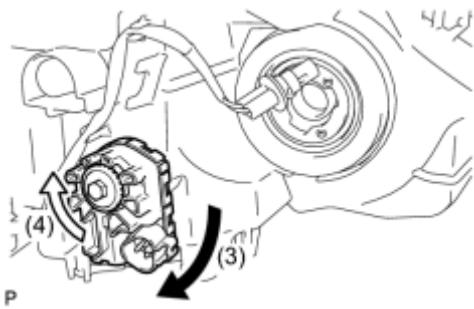
(a) Install a new headlight leveling motor base packing.

## 4. INSTALL HEADLIGHT LEVELING MOTOR (for LED Headlight)



(a) Insert the headlight leveling motor in the direction indicated by the arrow (1) shown in the illustration.

(b) Turn the aiming screw of the headlight leveling motor in the direction indicated by the arrow (2) shown in the illustration to engage the shaft.



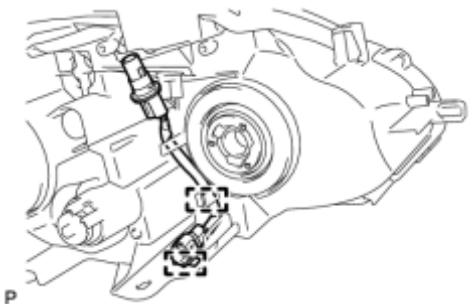
(c) Turn the headlight leveling motor in the direction indicated by the arrow (3) shown in the illustration.

HINT:

When installing the headlight leveling motor of the headlight assembly RH, turn the headlight leveling motor in the opposite direction indicated by the arrow (3) shown in the illustration.

(d) Turn the aiming screw of the headlight leveling motor in the direction indicated by the arrow (4) shown in the illustration to install it.

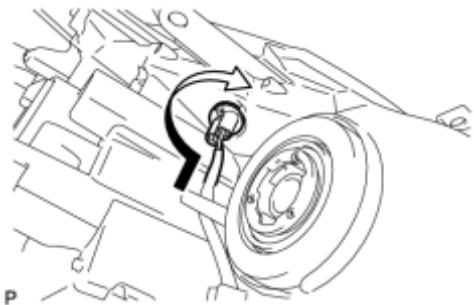
## 5. INSTALL HEADLIGHT CORD (for Halogen Headlight)



(a) Engage the 2 clamps and install the headlight cord.

## 6. INSTALL CLEARANCE LIGHT BULB

(a) Install the clearance light bulb to the headlight cord.

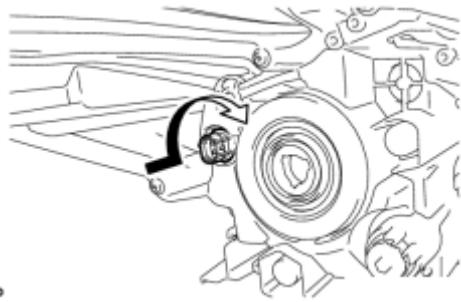


(b) Turn the clearance light bulb and headlight cord in the direction indicated by the arrow shown in the illustration and install them as a unit.

## 7. INSTALL FRONT SIDE MARKER LIGHT BULB (for Halogen Headlight)

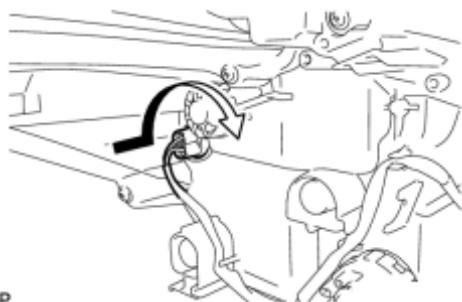
(a) Install the front side marker light bulb to the front side marker light socket.

(b) Turn the front side marker light bulb and front side marker light socket in the direction indicated by the arrow shown in the illustration and install them as a unit.



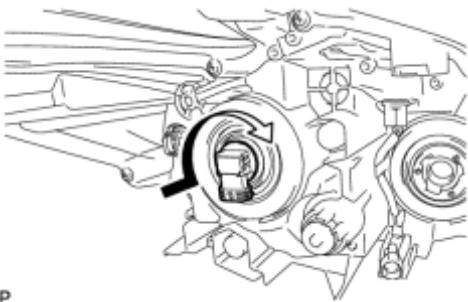
## 8. INSTALL FRONT SIDE MARKER LIGHT BULB (for LED Headlight)

(a) Install the front side marker light bulb to the headlight cord.



(b) Turn the front side marker light bulb and headlight cord in the direction indicated by the arrow shown in the illustration and install them as a unit.

## 9. INSTALL NO. 2 HEADLIGHT BULB (for Halogen Headlight)



(a) Turn the No. 2 headlight bulb in the direction indicated by the arrow shown in the illustration to install it.

NOTICE:

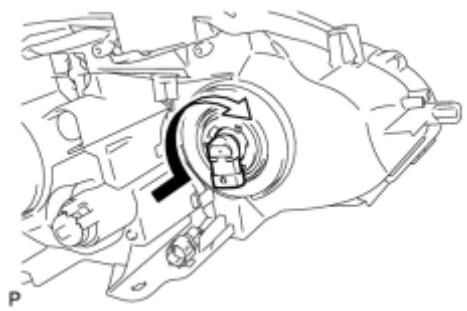
Do not touch the bulb glass.

## 10. INSTALL NO. 1 HEADLIGHT BULB

(a) Turn the No. 1 headlight bulb in the direction indicated by the arrow shown in the illustration to install it.

NOTICE:

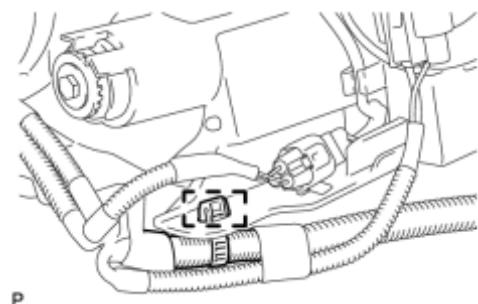
Do not touch the bulb glass.



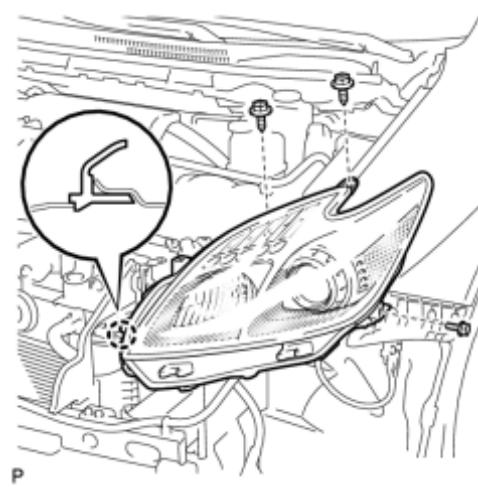
# INSTALLATION

## 1. INSTALL HEADLIGHT ASSEMBLY

(a) Connect each connector.



(b) Engage the clamp.



(c) Engage the claw.

(d) Install the headlight assembly with the bolt and 2 screws.

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

## 2. INSTALL FRONT BUMPER ASSEMBLY INFO

## 3. INSTALL RADIATOR SUPPORT OPENING COVER INFO

## 4. ADD WASHER FLUID (w/ Headlight Cleaner System) INFO

## 5. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

NOTICE:

When disconnecting the cable, some systems need to be initialized after the cable is reconnected INFO.

## 6. INSTALL REAR NO. 3 FLOOR BOARD INFO

7. INSTALL REAR DECK FLOOR BOX [INFO](#)

8. INSTALL REAR NO. 2 FLOOR BOARD (for Separate Type) [INFO](#)

9. PREPARE VEHICLE FOR HEADLIGHT AIM ADJUSTMENT [INFO](#)

10. PREPARE FOR HEADLIGHT AIMING (Using a headlight aim test machine) [INFO](#)

11. PREPARE FOR HEADLIGHT AIMING (Using a screen) [INFO](#)

12. INSPECT HEADLIGHT AIMING [INFO](#)

13. ADJUST HEADLIGHT AIMING [INFO](#)

14. PREPARE VEHICLE FOR FOG LIGHT AIM ADJUSTMENT (w/ Fog Light) [INFO](#)

15. PREPARE FOR FOG LIGHT AIMING (w/ Fog Light) [INFO](#)

16. INSPECT FOG LIGHT AIMING (w/ Fog Light) [INFO](#)

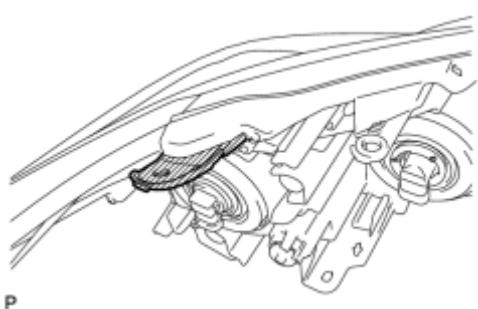
17. ADJUST FOG LIGHT AIMING (w/ Fog Light) [INFO](#)

# REPAIR

## HINT:

- Use the same procedure for the RH side and LH side.
- The procedure listed below is for the LH side.
- If the installation area of the headlight assembly is damaged, use the supply retainer for low-cost repair.
- Ensure that the headlight assembly is not damaged.

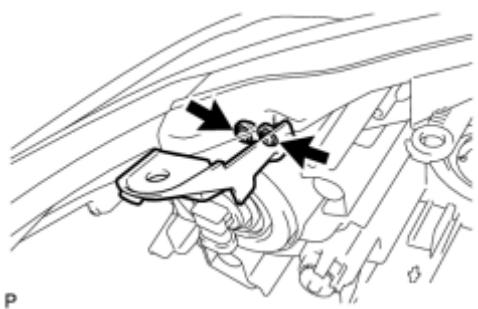
## 1. INSTALL UPPER HEADLIGHT PROTECTOR RETAINER



(a) Cut off the part shaded in the illustration and sand smooth with sandpaper.

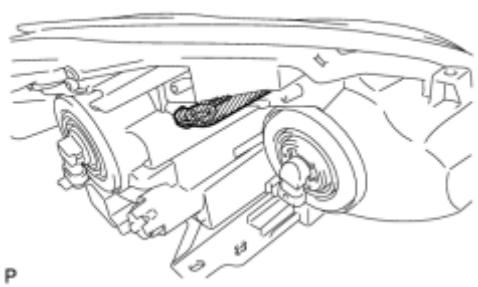
### NOTICE:

After cutting off the part, place the upper headlight protector retainer against the bosses and gradually file away the old bracket if it interferes with the installation of the supply retainer.



(b) Install the upper headlight protector retainer with the 2 screws.

## 2. INSTALL UPPER NO. 2 HEADLIGHT PROTECTOR RETAINER

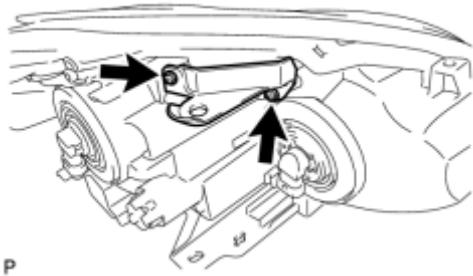


(a) Cut off the part shaded in the illustration and sand smooth with sandpaper.

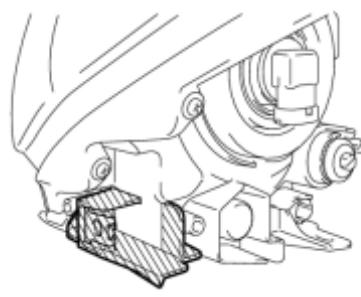
### NOTICE:

After cutting off the part, place the upper headlight protector retainer against the bosses and gradually file away the old bracket if it interferes with the installation of the supply retainer.

(b) Install the upper No. 2 headlight protector retainer with the 2 screws.



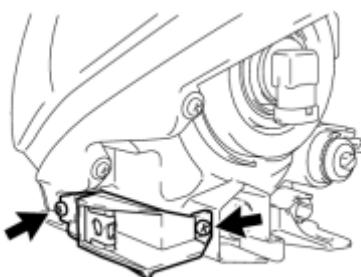
### 3. INSTALL LOWER HEADLIGHT PROTECTOR RETAINER



(a) Cut off the part shaded in the illustration and sand smooth with sandpaper.

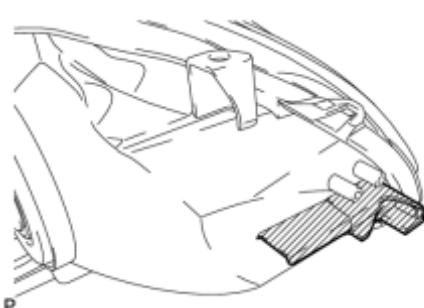
#### NOTICE:

After cutting off the part, place the lower headlight protector retainer against the bosses and gradually file away the old bracket if it interferes with the installation of the supply retainer.



(b) Install the lower headlight protector retainer with the 2 screws.

### 4. INSTALL LOWER NO. 2 HEADLIGHT PROTECTOR RETAINER

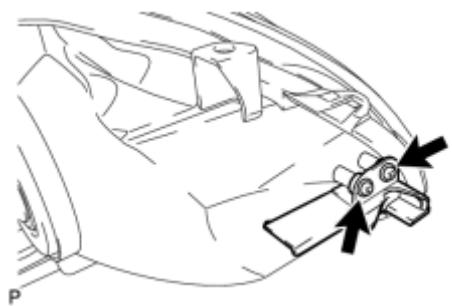


(a) Cut off the part shaded in the illustration and sand smooth with sandpaper.

#### NOTICE:

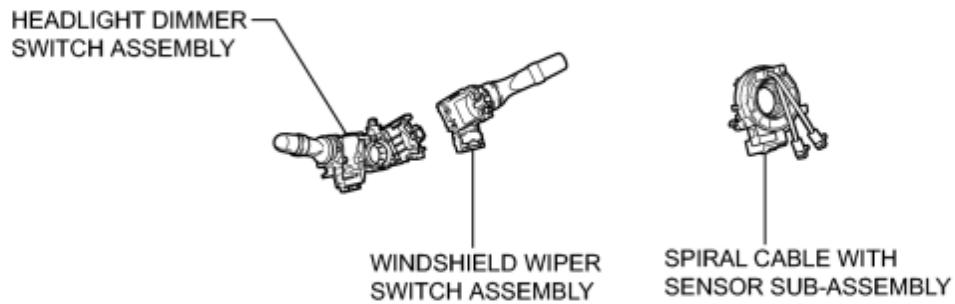
After cutting off the part, place the lower headlight protector retainer against the bosses and gradually file away the old bracket if it interferes with the installation of the supply retainer.

(b) Install the lower No. 2 headlight protector retainer with the 2 screws.



# COMPONENTS

## ILLUSTRATION



# REMOVAL

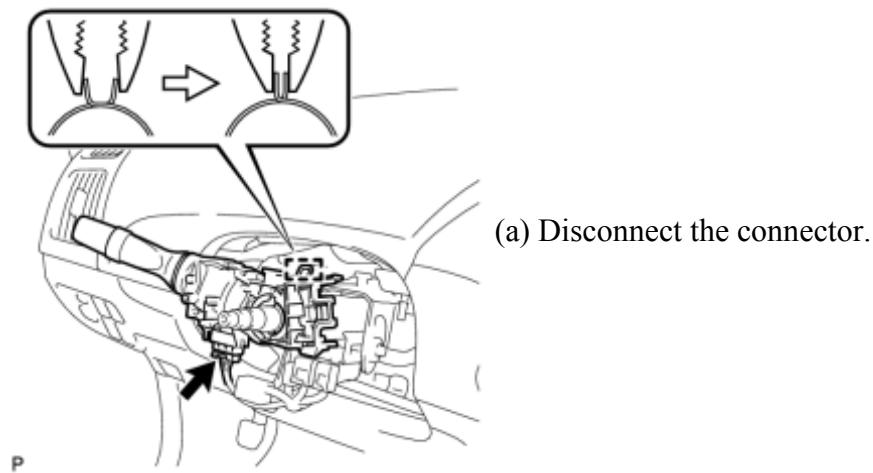
## 1. REMOVE SPIRAL CABLE WITH SENSOR SUB-ASSEMBLY

HINT:

Refer to the procedure up to Remove Spiral Cable with Sensor Sub-assembly [INFO](#).

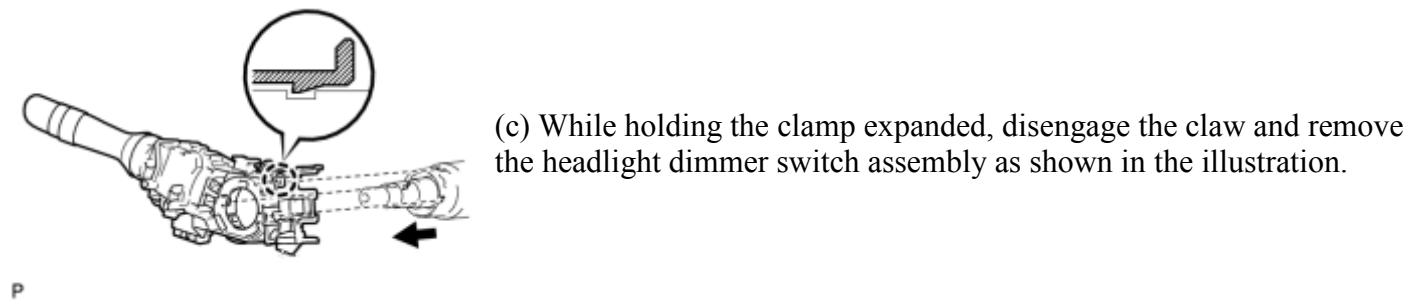
## 2. REMOVE WINDSHIELD WIPER SWITCH ASSEMBLY [INFO](#)

## 3. REMOVE HEADLIGHT DIMMER SWITCH ASSEMBLY



(a) Disconnect the connector.

(b) Using pliers, expand the clamp as shown in the illustration.



(c) While holding the clamp expanded, disengage the claw and remove the headlight dimmer switch assembly as shown in the illustration.

# INSPECTION

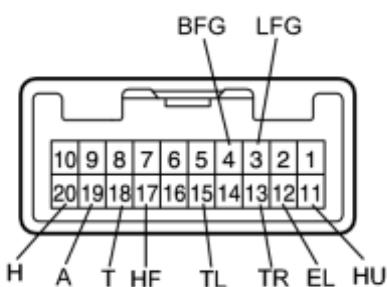
## 1. INSPECT HEADLIGHT DIMMER SWITCH ASSEMBLY

(a) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

### Light Control Switch

Tester Connection	Switch Condition	Specified Condition
12 (EL) - 18 (T)	Light control switch off	10 kΩ or higher
18 (T) - 19 (A)	Light control switch off	10 kΩ or higher
19 (A) - 20 (H)	Light control switch off	10 kΩ or higher
12 (EL) - 18 (T)	Light control switch in tail position	Below 1 Ω
12 (EL) - 18 (T)	Light control switch in head position	Below 1 Ω
18 (T) - 20 (H)	Light control switch in head position	Below 1 Ω
12 (EL) - 19 (A)	Light control switch in AUTO position	Below 1 Ω



### Dimmer Switch

Tester Connection	Switch Condition	Specified Condition
11 (HU) - 12 (EL)	Dimmer switch in high position	Below 1 Ω
12 (EL) - 11 (HU)	Dimmer switch in high flasher position	Below 1 Ω
12 (EL) - 17 (HF)		Below 1 Ω

### Turn Signal Switch

Tester Connection	Switch Condition	Specified Condition
12 (EL) - 13 (TR)	Right turn	Below 1 Ω
12 (EL) - 13 (TR)	Neutral	10 kΩ or higher
12 (EL) - 15 (TL)	Neutral	10 kΩ or higher
12 (EL) - 15 (TL)	Left turn	Below 1 Ω

# Front Fog Light Switch

Tester Connection	Switch Condition	Specified Condition
3 (LFG) - 4 (BFG)	Front fog light switch off	10 kΩ or higher
3 (LFG) - 4 (BFG)	Front fog light switch on	Below 1 Ω

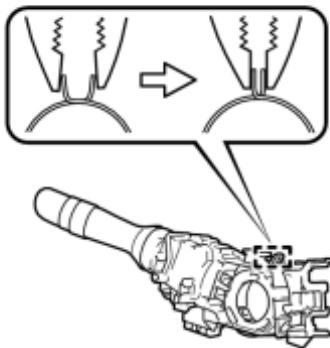
## Text in Illustration

*1	Component without harness connected (Headlight Dimmer Switch Assembly)
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If the result is not as specified, replace the headlight dimmer switch assembly.

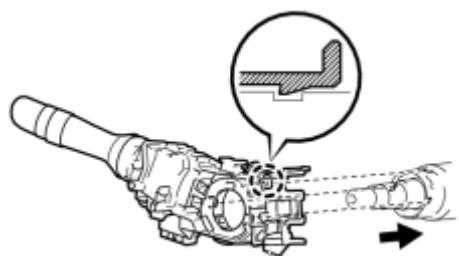
# INSTALLATION

## 1. INSTALL HEADLIGHT DIMMER SWITCH ASSEMBLY



(a) Using pliers, expand the clamp.

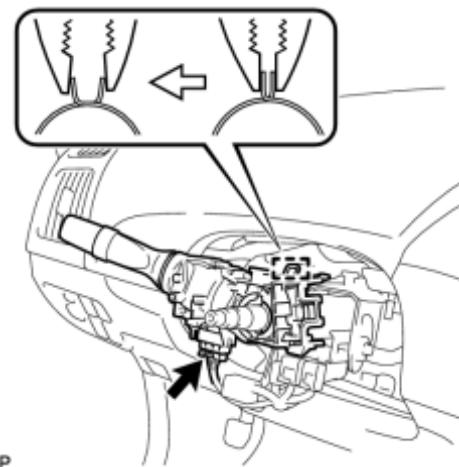
P



(b) While holding the clamp expanded, install the headlight dimmer switch assembly as shown in the illustration.

P

(c) Engage the claw.



(d) Install the headlight dimmer switch assembly with the clamp.

P

(e) Connect the connector.

2. INSTALL WINDSHIELD WIPER SWITCH ASSEMBLY 

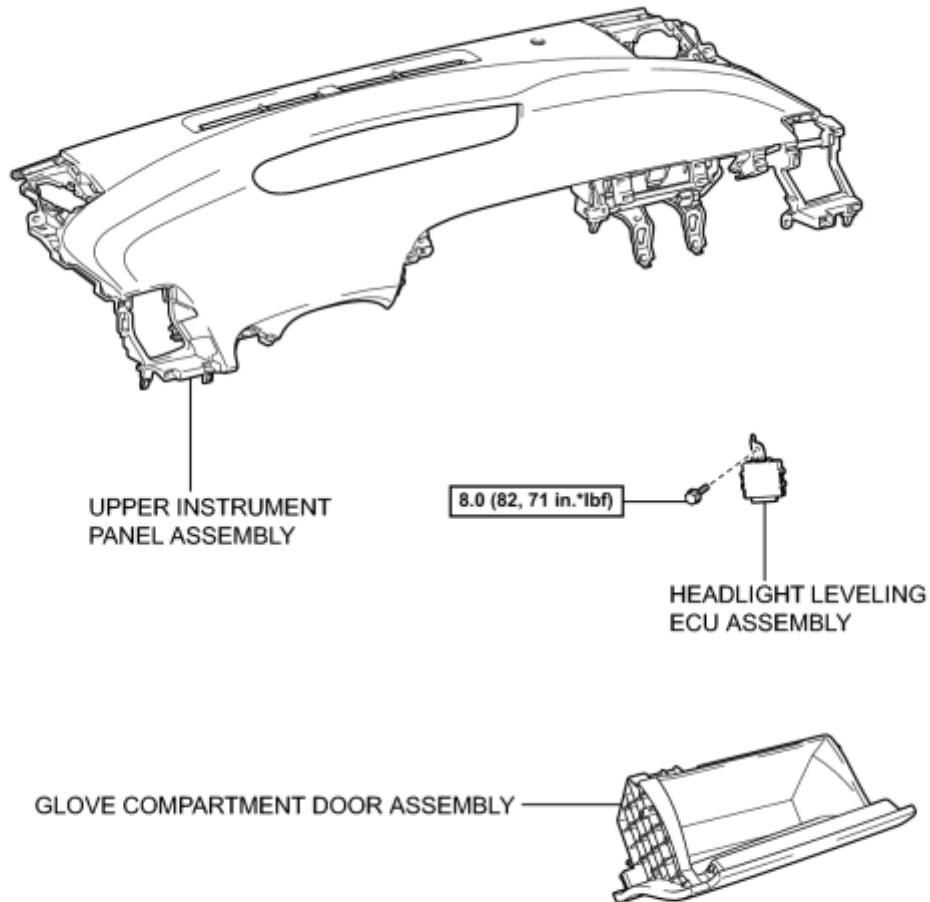
3. INSTALL SPIRAL CABLE WITH SENSOR SUB-ASSEMBLY

HINT:

Refer to the procedure from Install Spiral Cable with Sensor Sub-assembly .

# COMPONENTS

## ILLUSTRATION



**N\*m (kgf\*cm, ft.\*lbf)**: Specified torque

P

# REMOVAL

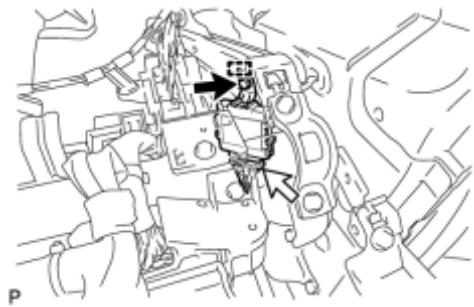
## 1. REMOVE UPPER INSTRUMENT PANEL ASSEMBLY

HINT:

Refer to the procedure up to Remove Upper Instrument Panel Assembly [INFO](#).

## 2. REMOVE GLOVE COMPARTMENT DOOR ASSEMBLY [INFO](#)

## 3. REMOVE HEADLIGHT LEVELING ECU ASSEMBLY



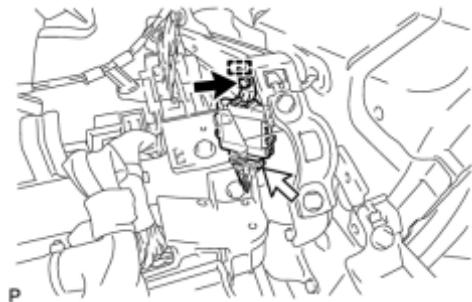
(a) Disconnect the connector.

(b) Remove the bolt.

(c) Disengage the guide and remove the headlight leveling ECU assembly.

# INSTALLATION

## 1. INSTALL HEADLIGHT LEVELING ECU ASSEMBLY



(a) Engage the guide.

(b) Install the headlight leveling ECU assembly with the bolt.

Torque: **8.0 N·m (82 kgf·cm, 71in·lbf)**

(c) Connect the connector.

## 2. INSTALL GLOVE COMPARTMENT DOOR ASSEMBLY INFO

## 3. INSTALL UPPER INSTRUMENT PANEL ASSEMBLY

HINT:

Refer to the procedure from Install Upper Instrument Panel Assembly INFO.

## 4. HEIGHT CONTROL SENSOR SIGNAL INITIALIZATION

INFO

## 5. PREPARE VEHICLE FOR HEADLIGHT AIM ADJUSTMENT INFO

## 6. PREPARE FOR HEADLIGHT AIMING (Using a headlight aim test machine) INFO

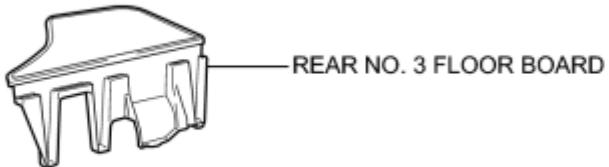
## 7. PREPARE FOR HEADLIGHT AIMING (Using a screen) INFO

## 8. INSPECT HEADLIGHT AIMING INFO

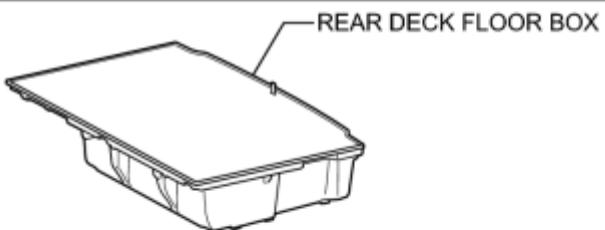
## 9. ADJUST HEADLIGHT AIMING INFO

## COMPONENTS

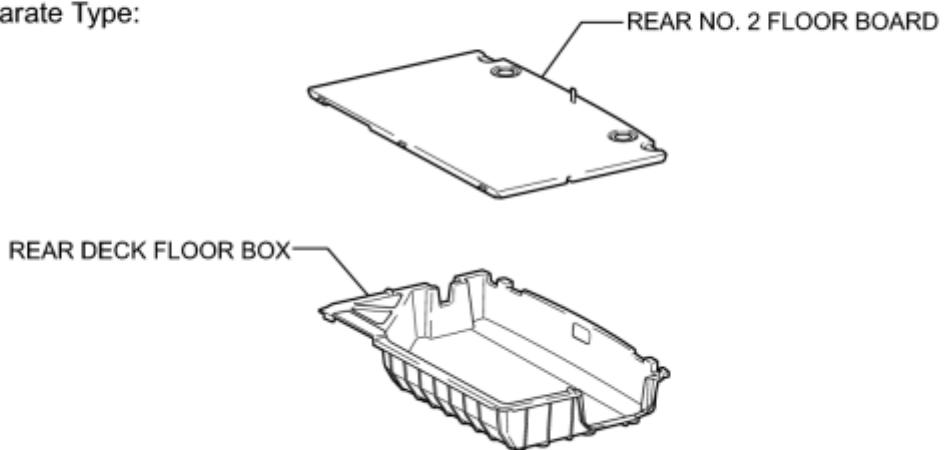
### ILLUSTRATION



for Integrated Type:

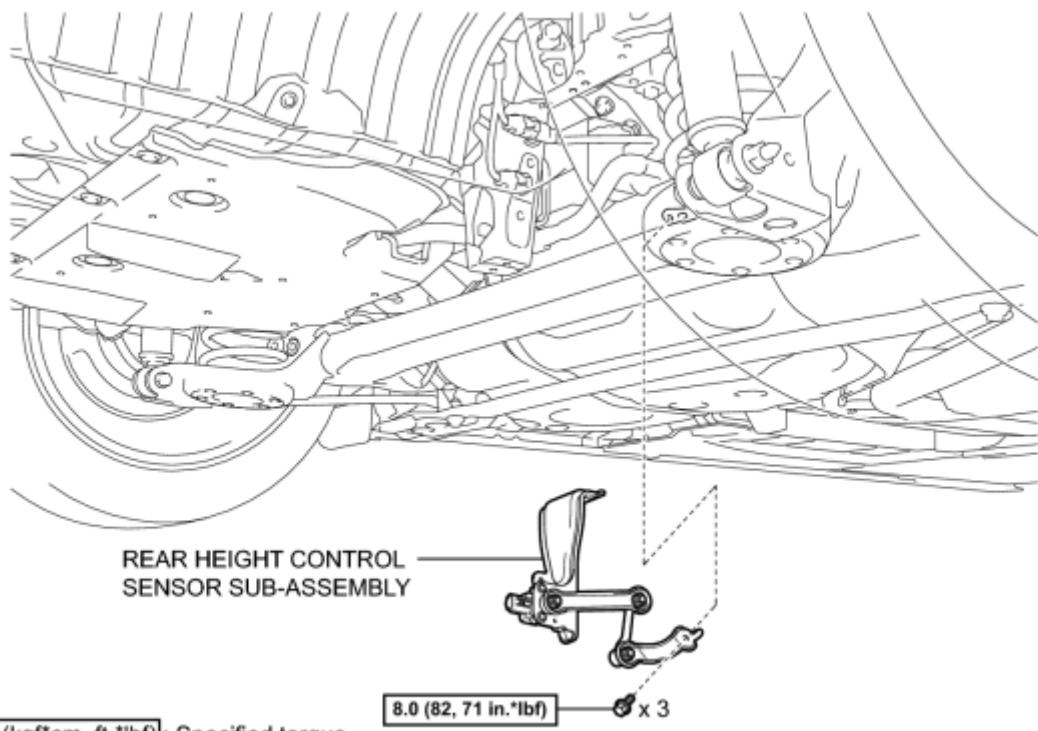


for Separate Type:



P

### ILLUSTRATION



N\*m (kgf\*cm, ft.\*lbf): Specified torque

P

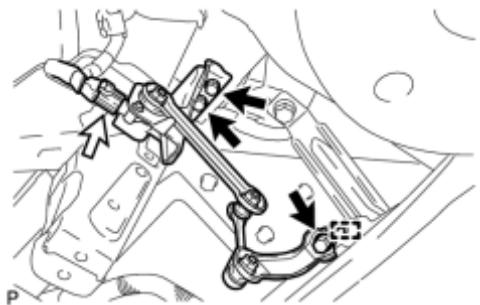
# REMOVAL

1. REMOVE REAR NO. 2 FLOOR BOARD (for Separate Type) INFO
2. REMOVE REAR DECK FLOOR BOX INFO
3. REMOVE REAR NO. 3 FLOOR BOARD INFO
4. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

## NOTICE:

When disconnecting the cable, some systems need to be initialized after the cable is reconnected INFO.

5. REMOVE REAR WHEEL
6. REMOVE REAR HEIGHT CONTROL SENSOR SUB-ASSEMBLY



(a) Disconnect the connector.

(b) Remove the 3 bolts.

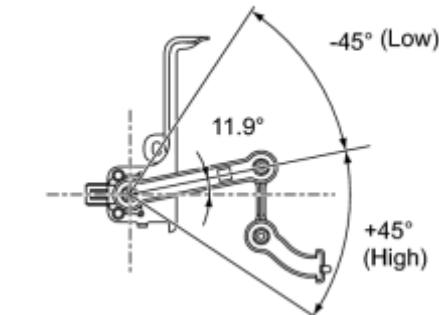
(c) Disengage the guide and remove the rear height control sensor sub-assembly.

## NOTICE:

Do not drop the rear height control sensor sub-assembly. If it is dropped, replace it with a new one.

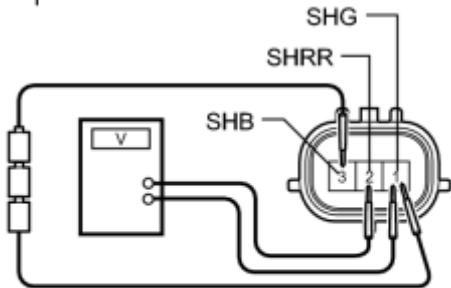
# INSPECTION

## 1. INSPECT REAR HEIGHT CONTROL SENSOR SUB-ASSEMBLY RH



\*1

(a) Connect 3 dry cell batteries (1.5 V) in series.



(b) Connect the positive (+) lead from the batteries to terminal 3 (SHB) and the negative (-) lead from the batteries to terminal 1 (SHG).

(c) Measure the voltage between terminals 2 (SHRR) and 1 (SHG) while slowly moving the link up and down.

Standard Voltage:

Tester Connection	Condition	Specified Condition
2 (SHRR) - 1 (SHG)	+45° (High)	4.05 V
2 (SHRR) - 1 (SHG)	0°(Normal)	2.25 V
2 (SHRR) - 1 (SHG)	-45° (Low)	0.45 V

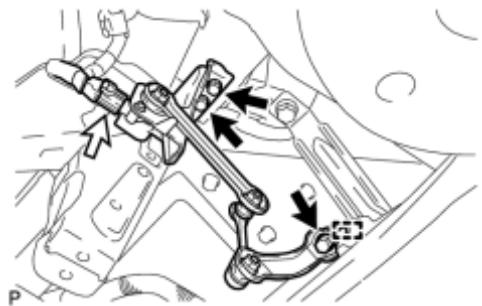
### Text in Illustration

*1	Component without harness connected (Rear Height Control Sensor Sub-assembly RH)
----	---

If the result is not as specified, replace the rear height control sensor sub-assembly RH.

# INSTALLATION

## 1. INSTALL REAR HEIGHT CONTROL SENSOR SUB-ASSEMBLY



(a) Engage the guide and install the rear height control sensor sub-assembly with the 3 bolts.

Torque: **8.0 N·m (82 kgf·cm, 71in·lbf)**

(b) Connect the connector.

## 2. INSTALL REAR WHEEL INFO

## 3. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

### NOTICE:

When disconnecting the cable, some systems need to be initialized after the cable is reconnected INFO.

## 4. INSTALL REAR NO. 3 FLOOR BOARD INFO

## 5. INSTALL REAR DECK FLOOR BOX INFO

## 6. INSTALL REAR NO. 2 FLOOR BOARD (for Separate Type) INFO

## 7. HEIGHT CONTROL SENSOR SIGNAL INITIALIZATION

INFO

## 8. PREPARE VEHICLE FOR HEADLIGHT AIM ADJUSTMENT INFO

## 9. PREPARE FOR HEADLIGHT AIMING (Using a headlight aim test machine) INFO

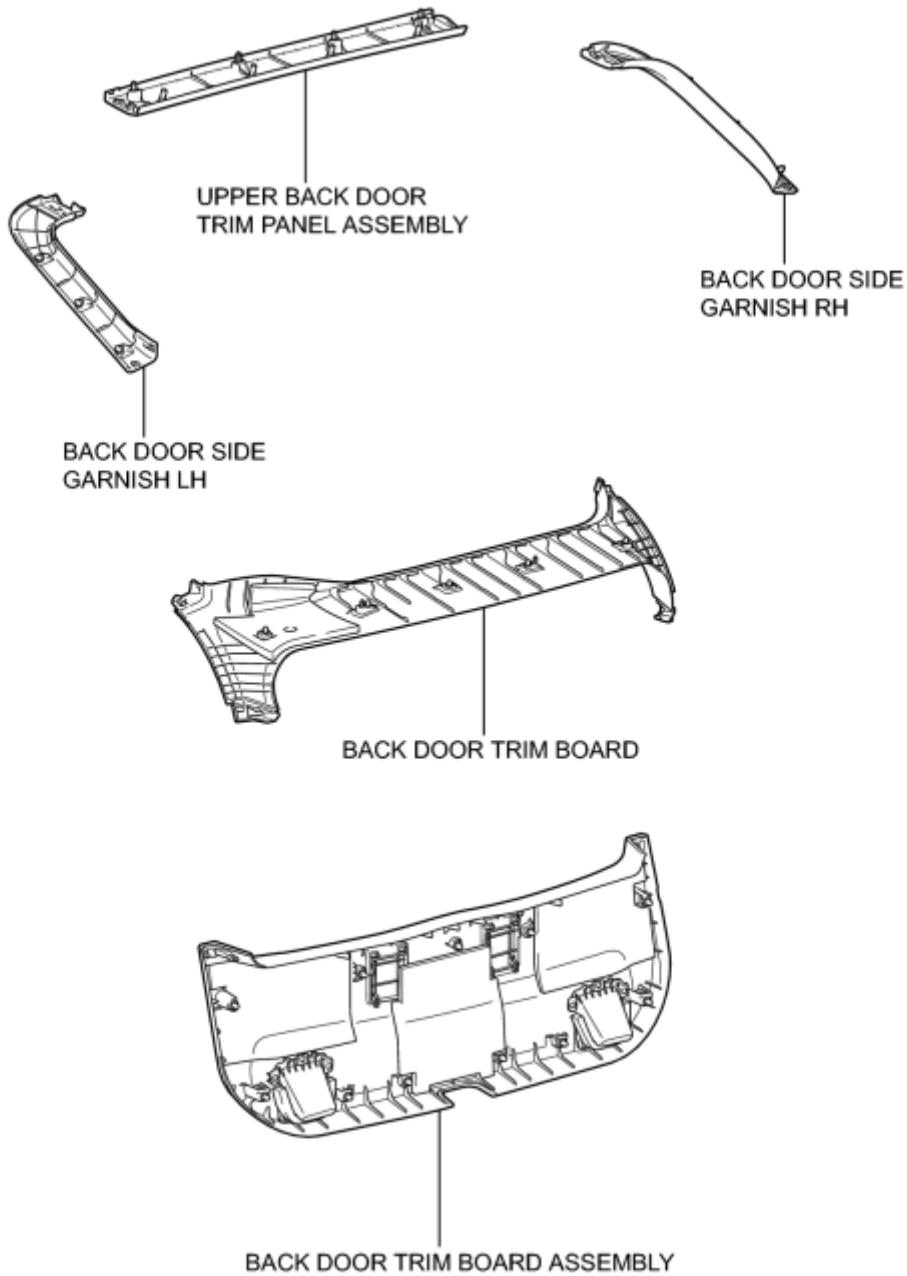
## 10. PREPARE FOR HEADLIGHT AIMING (Using a screen) INFO

## 11. INSPECT HEADLIGHT AIMING INFO

## 12. ADJUST HEADLIGHT AIMING INFO

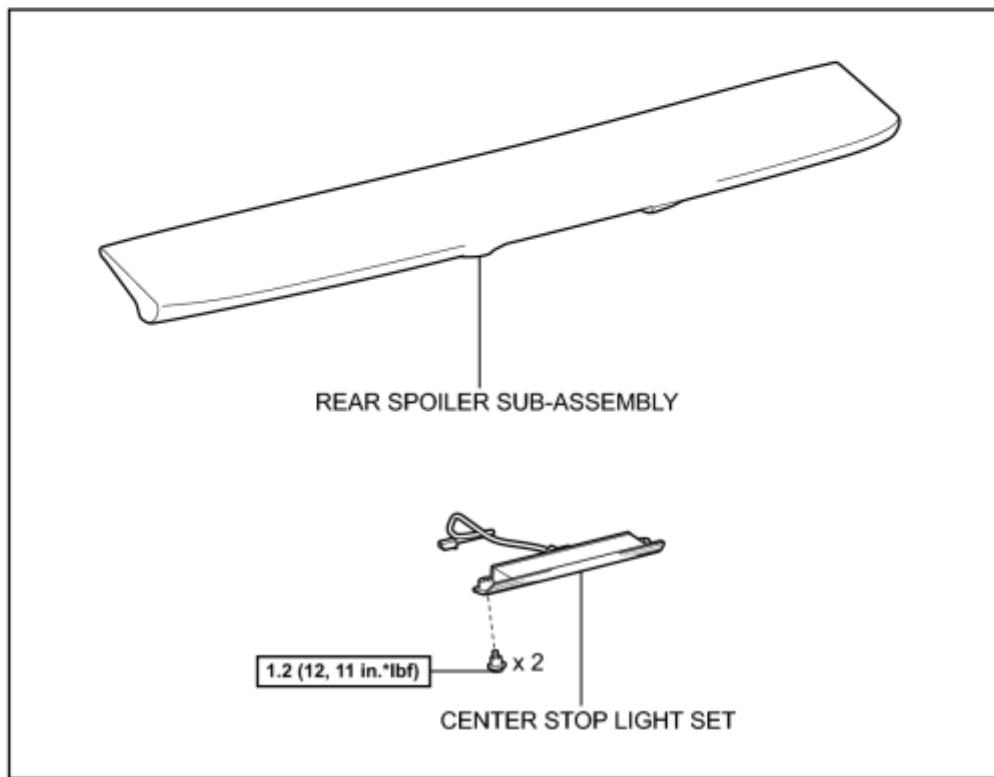
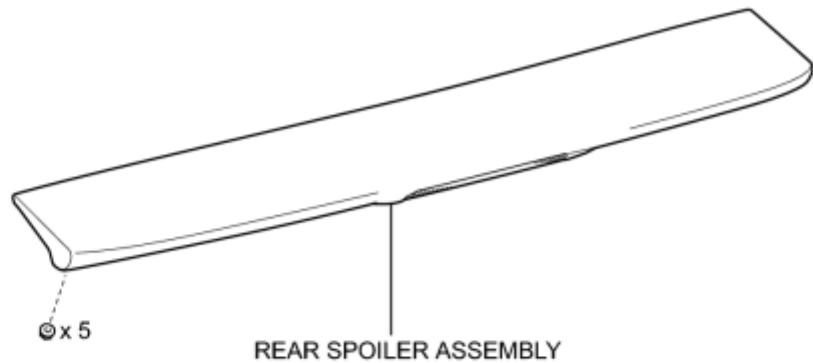
## COMPONENTS

### ILLUSTRATION



P

### ILLUSTRATION



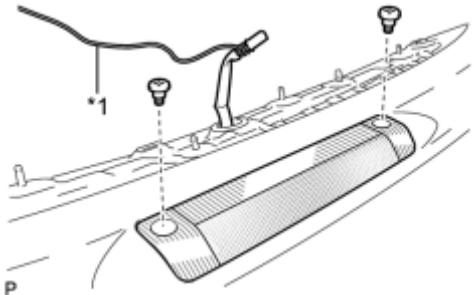
**[N\*m (kgf\*cm, ft.\*lbf)]**: Specified torque

P

# REMOVAL

1. REMOVE UPPER BACK DOOR TRIM PANEL ASSEMBLY [INFO](#)
2. REMOVE BACK DOOR SIDE GARNISH RH [INFO](#)
3. REMOVE BACK DOOR SIDE GARNISH LH [INFO](#)
4. REMOVE BACK DOOR TRIM BOARD ASSEMBLY [INFO](#)
5. REMOVE BACK DOOR TRIM BOARD [INFO](#)
6. REMOVE REAR SPOILER ASSEMBLY [INFO](#)
7. REMOVE CENTER STOP LIGHT SET

(a) Secure a wire around the center stop light set wire harness as shown in the illustration.



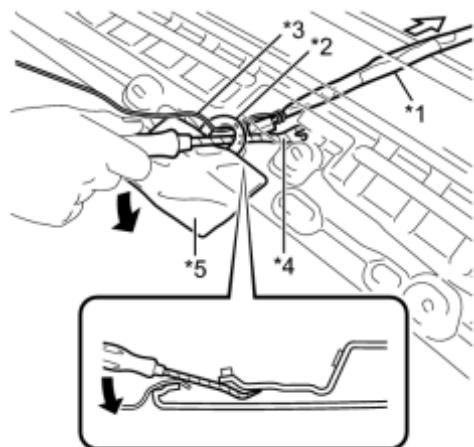
## Text in Illustration

*1	Wire
----	------

### NOTICE:

Use a wire long enough so that the center stop light set wire harness can be passed through the rear spoiler assembly during installation.

(b) Remove the 2 screws.



(c) Place a cloth on the rear spoiler assembly as shown in the illustration.

## Text in Illustration

*1	Wire Harness
*2	Gasket
*3	Wire
*4	Protective Tape
*5	Cloth

P

(d) Using a clip remover wrapped with protective tape, widen the space inside the rear spoiler assembly, and pull the center stop light set wire harness to remove it as shown in the illustration.

NOTICE:

- Do not apply excess force to the rear spoiler assembly or it may be damaged.
- Do not damage the gasket of the rear spoiler assembly.
- Do not apply excess force when pulling the wire harness or it may break.

(e) Remove the wire from the old center stop light set wire harness.

# INSPECTION

## 1. INSPECT CENTER STOP LIGHT SET

\*1



(a) Connect a positive (+) lead from the battery to terminal 2 and a negative (-) lead to terminal 1.

(b) Check that the center stop light comes on.

OK:

The light comes on.

### *Text in Illustration*

\*1

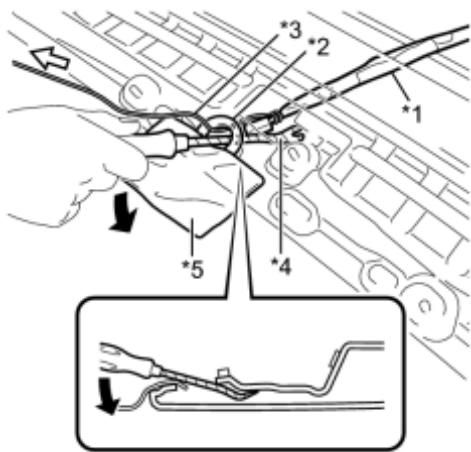
Component without harness connected  
(Center Stop Light Set)

If the result is not as specified, replace the center stop light set.

# INSTALLATION

## 1. INSTALL CENTER STOP LIGHT SET

(a) Secure the wire running through the rear spoiler assembly to the center stop light set wire harness.



(b) Place a cloth on the rear spoiler assembly as shown in the illustration.

### Text in Illustration

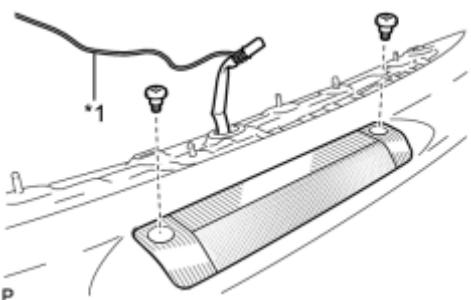
*1	Wire Harness
*2	Gasket
*3	Wire
*4	protective tape
*5	Cloth

P

(c) Using a clip remover wrapped with protective tape, widen the space inside the rear spoiler assembly, and pull the wire to pass the center stop light set wire harness through the spoiler.

#### NOTICE:

- Do not apply excess force to the rear spoiler assembly or it may be damaged.
- Do not damage the gasket of the rear spoiler assembly.
- Do not apply excess force when pulling the wire harness or it may break.



(d) Install the center stop light set with the 2 screws to the rear spoiler assembly.

### Text in Illustration

*1	Wire
----	------

Torque: **1.2 N·m (12 kgf·cm, 11in·lbf)**

(e) Remove the wire from the old center stop light set wire harness.

## 2. INSTALL REAR SPOILER ASSEMBLY INFO

## 3. INSTALL BACK DOOR TRIM BOARD INFO

## 4. INSTALL BACK DOOR TRIM BOARD ASSEMBLY INFO

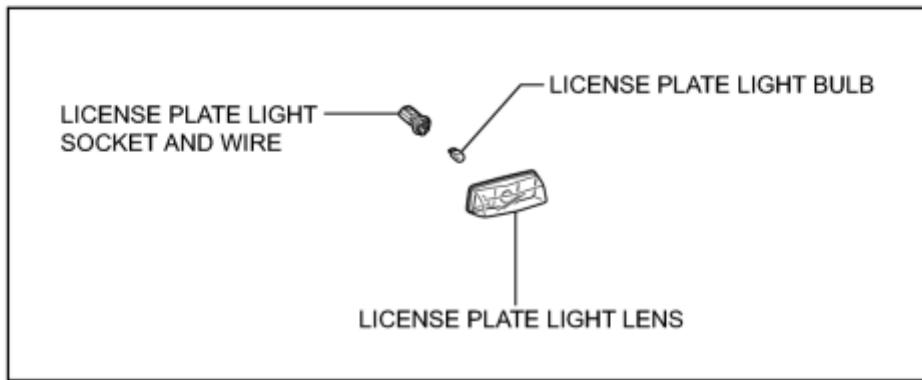
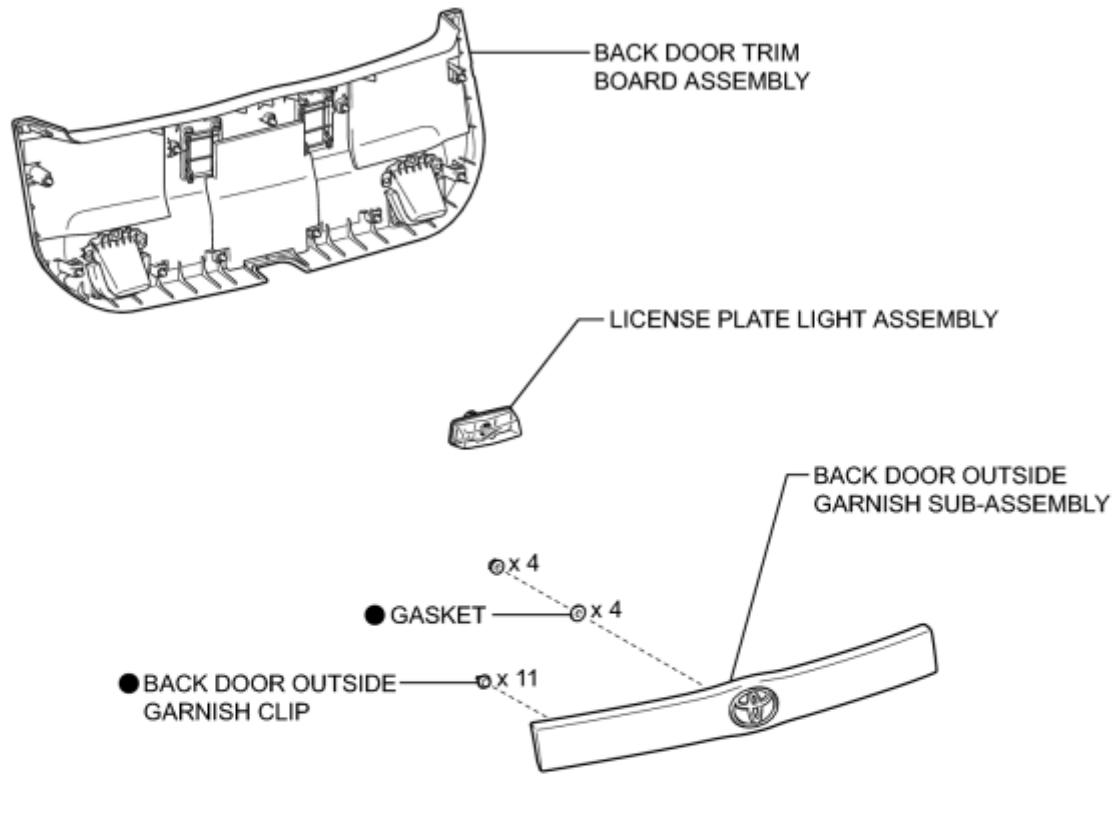
## 5. INSTALL BACK DOOR SIDE GARNISH LH INFO

6. INSTALL BACK DOOR SIDE GARNISH RH 

7. INSTALL UPPER BACK DOOR TRIM PANEL ASSEMBLY 

# COMPONENTS

## ILLUSTRATION

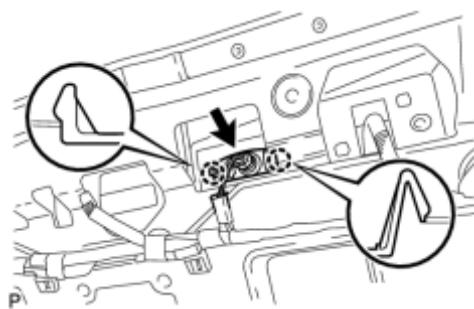


● Non-reusable part

P

# REMOVAL

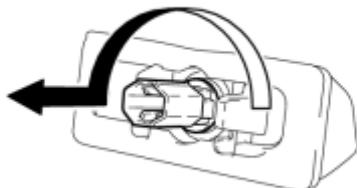
1. REMOVE BACK DOOR TRIM BOARD ASSEMBLY INFO
2. REMOVE BACK DOOR OUTSIDE GARNISH SUB-ASSEMBLY INFO
3. REMOVE LICENSE PLATE LIGHT ASSEMBLY



(a) Disconnect the connector.

(b) Disengage the 2 claws and remove the license plate light assembly.

4. REMOVE LICENSE PLATE LIGHT BULB



(a) Turn the license plate light bulb and license plate light socket and wire in the direction indicated by the arrow shown in the illustration, and remove them as a unit.

(b) Remove the license plate light bulb from the license plate light socket and wire.

# INSPECTION

## 1. INSPECT LICENSE PLATE LIGHT ASSEMBLY

\*1



(a) Connect a positive (+) lead from the battery to terminal 2 and a negative (-) lead to terminal 1.

(b) Check that the license plate light comes on.

OK:

The light comes on.

### *Text in Illustration*

\*1

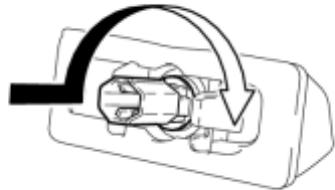
Component without harness connected  
(License Plate Light Assembly)

If the result is not as specified, replace the bulb or license plate light socket and wire.

# INSTALLATION

## 1. INSTALL LICENSE PLATE LIGHT BULB

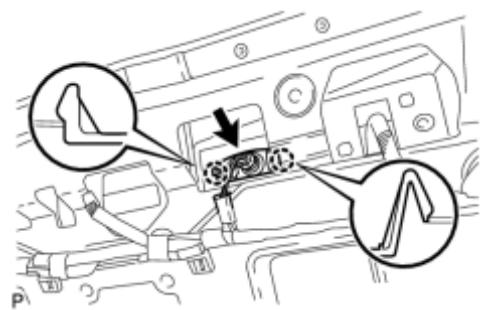
(a) Install the license plate light bulb to the license plate light socket and wire.



P

(b) Turn the license plate light bulb and license plate light socket and wire in the direction indicated by the arrow shown in the illustration and install them as a unit.

## 2. INSTALL LICENSE PLATE LIGHT ASSEMBLY



(a) Engage the 2 claws to install the license plate light assembly.

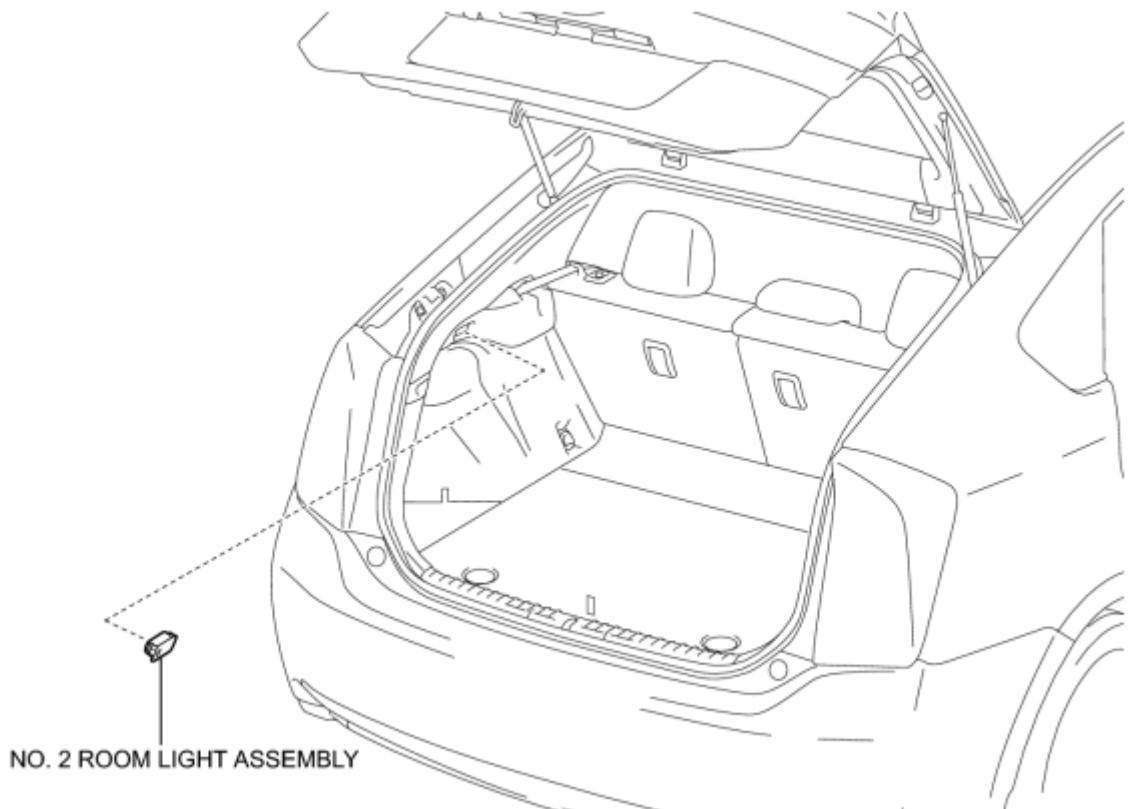
(b) Connect the connector.

## 3. INSTALL BACK DOOR OUTSIDE GARNISH SUB-ASSEMBLY INFO

## 4. INSTALL BACK DOOR TRIM BOARD ASSEMBLY INFO

# COMPONENTS

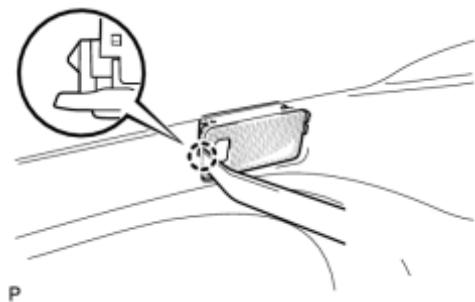
## ILLUSTRATION



P

# REMOVAL

## 1. REMOVE NO. 2 ROOM LIGHT ASSEMBLY



(a) Using a moulding remover, disengage the claw.

(b) Disconnect the connector and remove the No. 2 room light assembly.

# INSPECTION

## 1. INSPECT NO. 2 ROOM LIGHT ASSEMBLY

\*1



(a) Connect a positive (+) lead from the battery to terminal 2 and a negative (-) lead to terminal 1.

(b) Turn the No. 2 room light switch on.

(c) Check that the No. 2 room light comes on.

OK:

No. 2 room light comes on.

### *Text in Illustration*

\*1

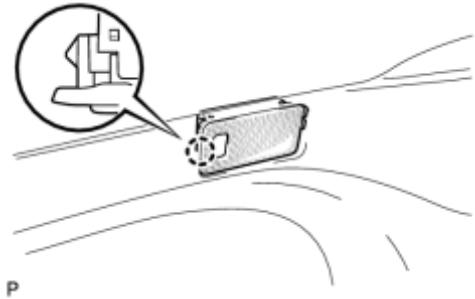
Component without harness connected  
(No. 2 Room Light Assembly)

If the result is not as specified, replace the bulb or No. 2 room light assembly.

# INSTALLATION

## 1. INSTALL NO. 2 ROOM LIGHT ASSEMBLY

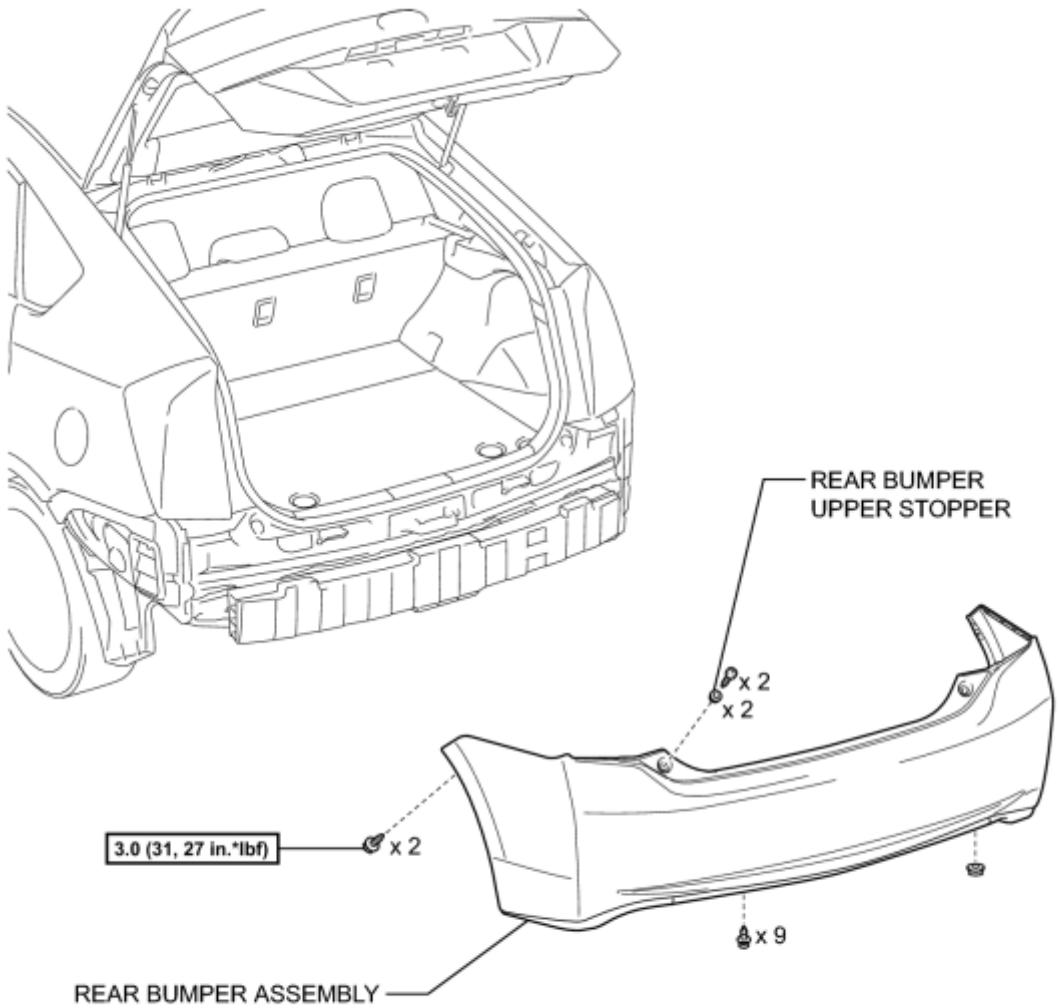
(a) Connect the connector.



(b) Engage the claw to install the No. 2 room light assembly.

## COMPONENTS

## ILLUSTRATION



**N\*m (kgf\*cm, ft.\*lbf)** : Specified torque

P

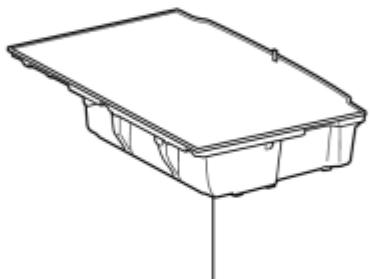
## ILLUSTRATION

for RH Side:



REAR NO. 3 FLOOR BOARD

for Integrated Type:

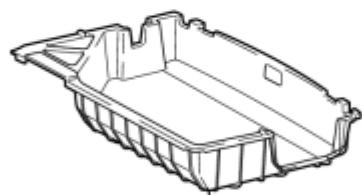


REAR DECK FLOOR BOX

for Separate Type:



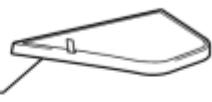
REAR NO. 2 FLOOR BOARD



REAR DECK FLOOR BOX

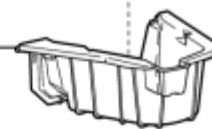
for LH Side:

REAR NO. 4 FLOOR BOARD



a

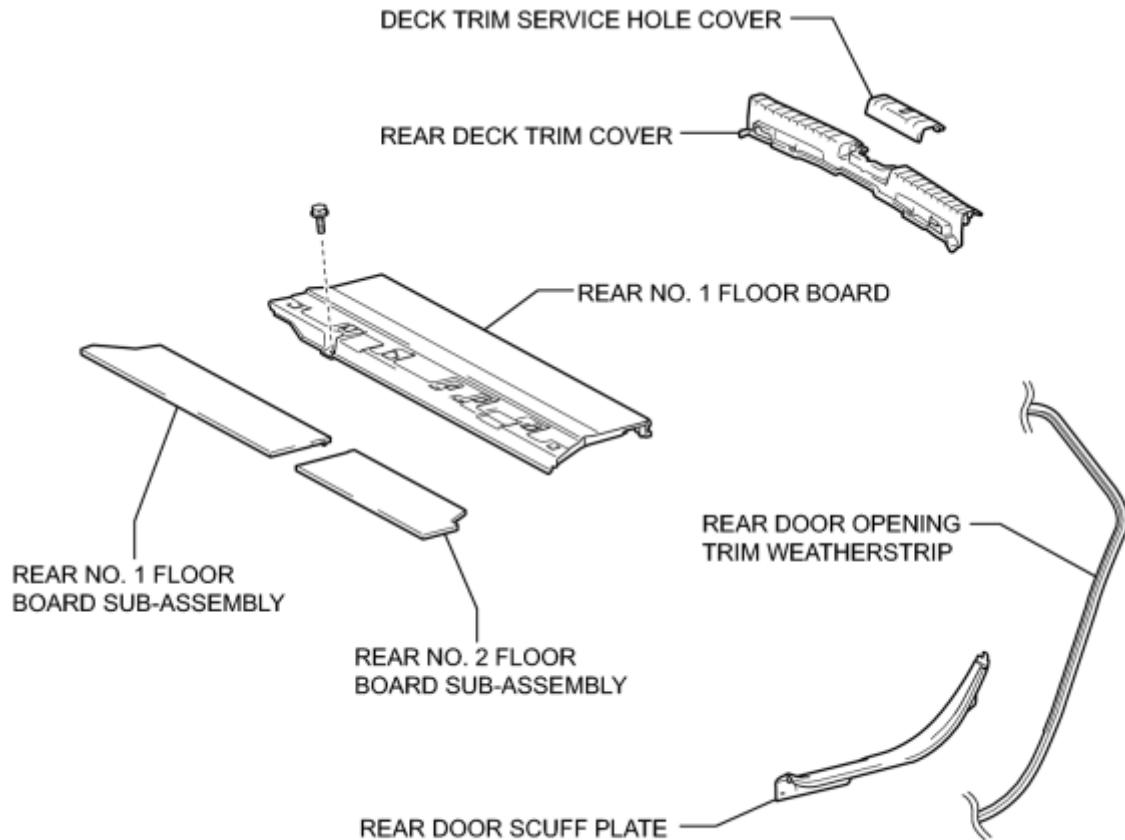
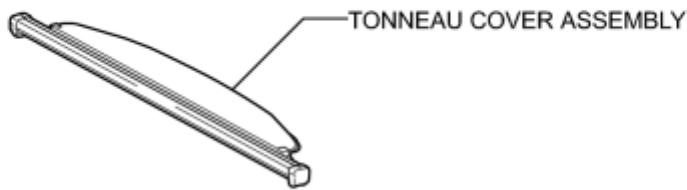
DECK FLOOR BOX LH



P

## ILLUSTRATION

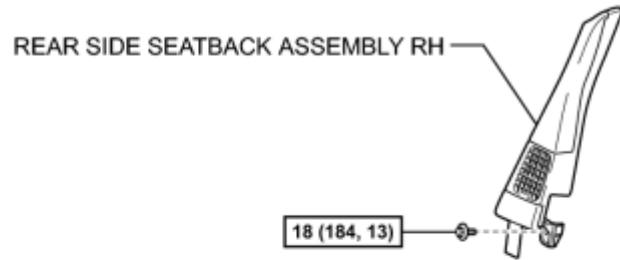
w/ Tonneau Cover:



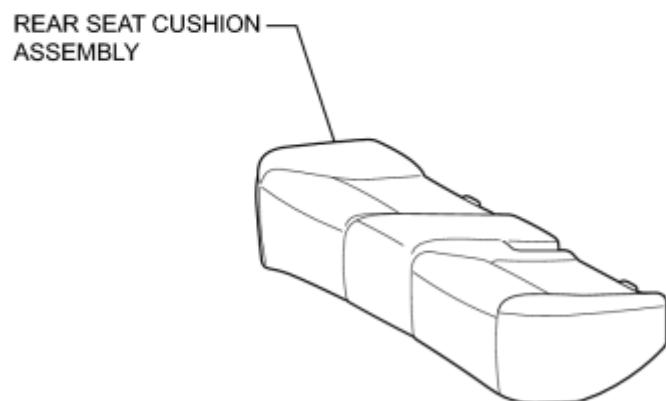
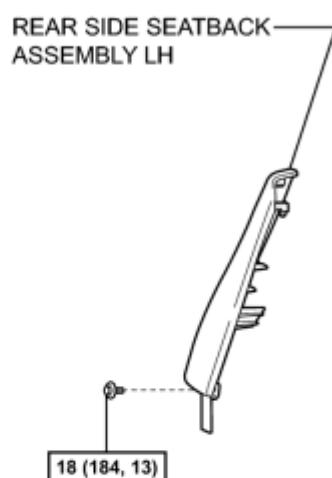
P

## ILLUSTRATION

for RH Side:



for LH Side:

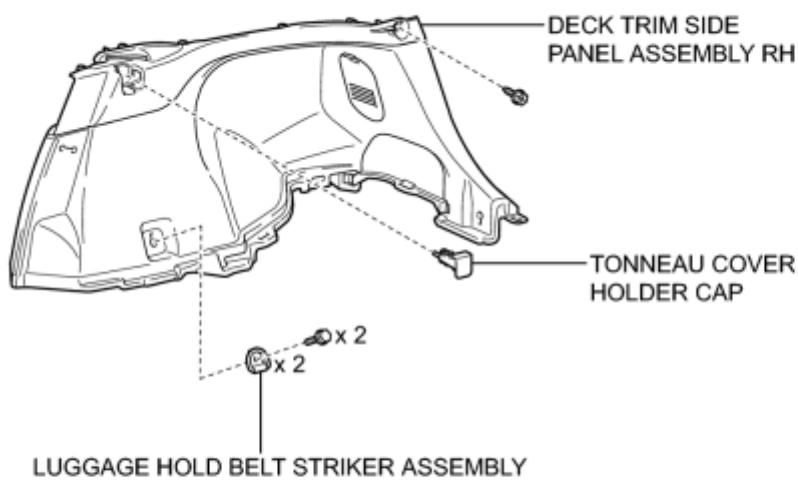


**N\*m (kgf\*cm, ft.\*lbf)**: Specified torque

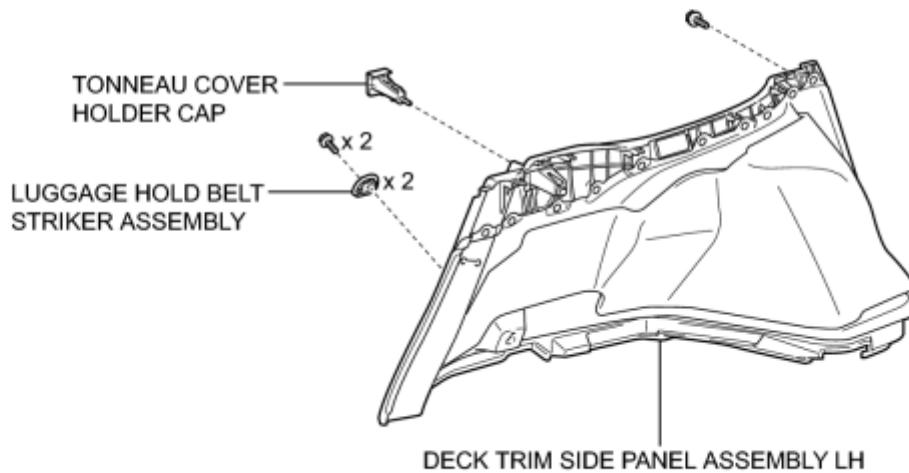
P

## ILLUSTRATION

for RH Side:

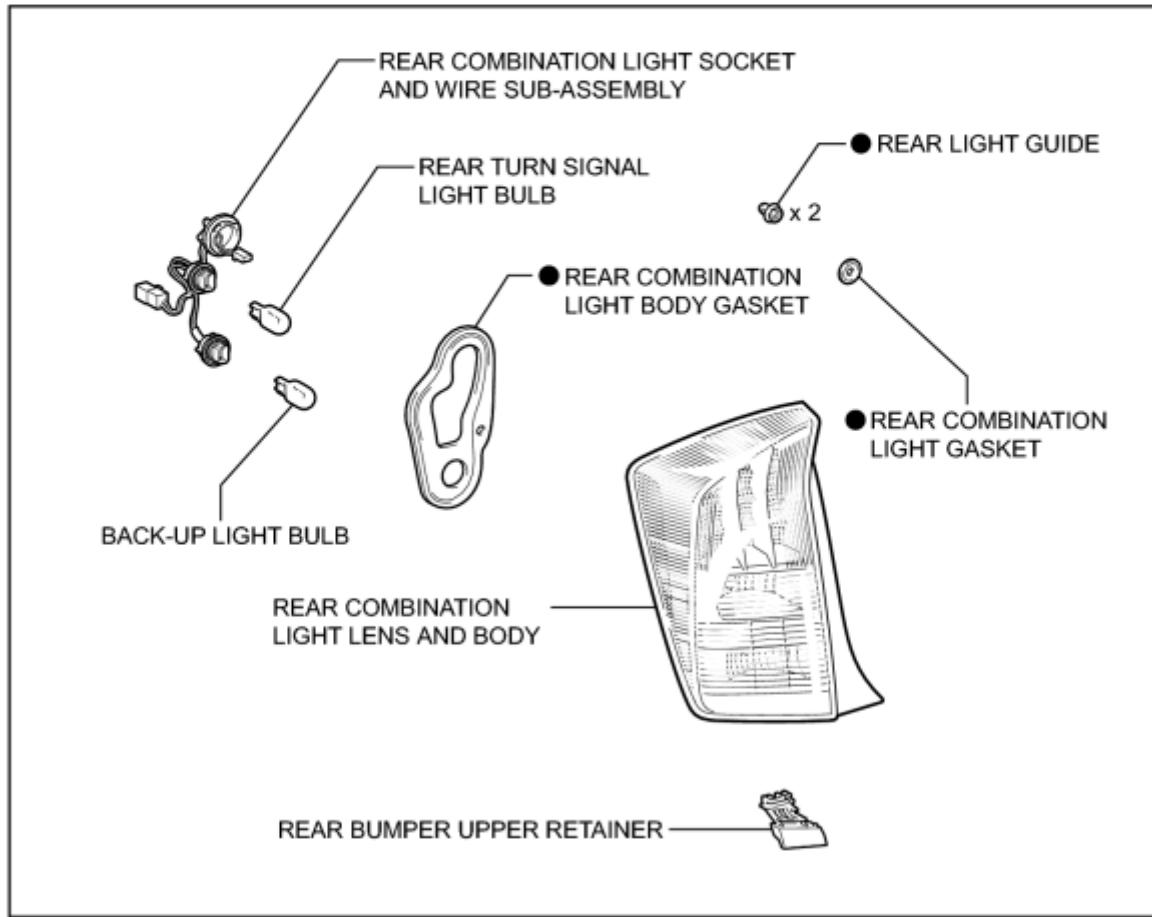
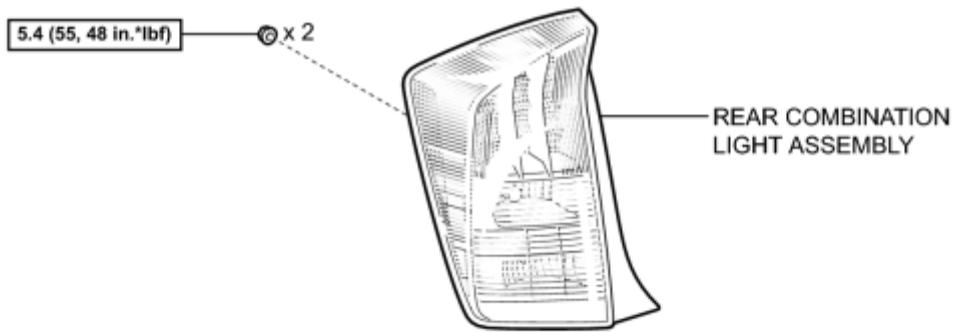


for LH Side:



P

## ILLUSTRATION



**N·m (kgf·cm, ft·lbf):** Specified torque

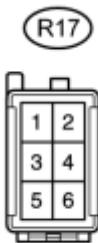
● Non-reusable part

P

# ON-VEHICLE INSPECTION

## 1. INSPECT REAR COMBINATION LIGHT ASSEMBLY LH

\*1



(a) Disconnect the connector from the rear combination light assembly LH.

(b) Measure the voltage according to the value(s) in the table below.

Standard Voltage:

Tester Connection	Condition	Specified Condition
R17-1 - R17-5	Light control switch off	Below 1 V
	Light control switch in tail position	11 to 14 V
R17-2 - R17-5	Brake pedal released	Below 1 V
	Brake pedal depressed	11 to 14 V
R17-3 - R17-5	Turn signal switch in neutral position	Below 1 V
	Power switch on (IG) and turn signal switch in left turn position	11 to 14 V (60 to 120 times per minute)

### *Text in Illustration*

\*1

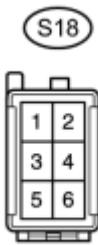
Front view of wire harness connector  
(to Rear Combination Light Assembly LH)

If the result is not as specified, repair or replace the wire harness or connector.

## 2. INSPECT REAR COMBINATION LIGHT ASSEMBLY RH

(a) Disconnect the connector from the rear combination light assembly RH.

\*1



(b) Measure the voltage according to the value(s) in the table below.

Standard Voltage:

Tester Connection	Condition	Specified Condition
S18-1 - S18-5	Light control switch off	Below 1 V
	Light control switch in tail position	11 to 14 V
S18-2 - S18-5	Brake pedal released	Below 1 V
	Brake pedal depressed	11 to 14 V
S18-3 - S18-5	Turn signal switch in neutral position	Below 1 V
	Power switch on (IG) and turn signal switch in right turn position	11 to 14 V (60 to 120 times per minute)

#### Text in Illustration

\*1

Front view of wire harness connector  
(to Rear Combination Light Assembly RH)

If the result is not as specified, repair or replace the wire harness or connector.

# REMOVAL

1. REMOVE REAR BUMPER ASSEMBLY [INFO](#)
2. REMOVE REAR NO. 2 FLOOR BOARD (for Separate Type) [INFO](#)
3. REMOVE REAR DECK FLOOR BOX [INFO](#)
4. REMOVE REAR NO. 3 FLOOR BOARD (for RH Side) [INFO](#)
5. REMOVE REAR NO. 4 FLOOR BOARD (for LH Side) [INFO](#)
6. REMOVE DECK FLOOR BOX LH (for LH Side) [INFO](#)
7. REMOVE REAR DOOR SCUFF PLATE [INFO](#)
8. DISCONNECT REAR DOOR OPENING TRIM WEATHERSTRIP [INFO](#)
9. REMOVE TONNEAU COVER ASSEMBLY (w/ Tonneau Cover) [INFO](#)
10. REMOVE REAR NO. 1 FLOOR BOARD SUB-ASSEMBLY [INFO](#)
11. REMOVE REAR NO. 2 FLOOR BOARD SUB-ASSEMBLY [INFO](#)
12. REMOVE REAR NO. 1 FLOOR BOARD [INFO](#)
13. REMOVE DECK TRIM SERVICE HOLE COVER [INFO](#)
14. REMOVE REAR DECK TRIM COVER [INFO](#)
15. REMOVE REAR SEAT CUSHION ASSEMBLY [INFO](#)
16. REMOVE REAR SIDE SEATBACK ASSEMBLY LH (for LH Side) [INFO](#)
17. REMOVE REAR SIDE SEATBACK ASSEMBLY RH (for RH Side)

HINT:

Use the same procedure described for the LH side.

18. REMOVE LUGGAGE HOLD BELT STRIKER ASSEMBLY (for LH Side) [INFO](#)
19. REMOVE TONNEAU COVER HOLDER CAP (for LH Side) [INFO](#)
20. REMOVE DECK TRIM SIDE PANEL ASSEMBLY LH (for LH Side) [INFO](#)
21. REMOVE LUGGAGE HOLD BELT STRIKER ASSEMBLY (for RH Side)

HINT:

2010 Toyota Prius

Repair Manual

Use the same procedure described for the LH side.

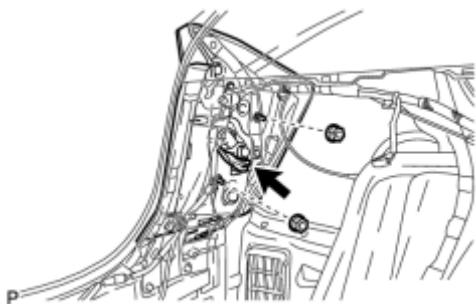
## 22. REMOVE TONNEAU COVER HOLDER CAP (for RH Side)

HINT:

Use the same procedure described for the LH side.

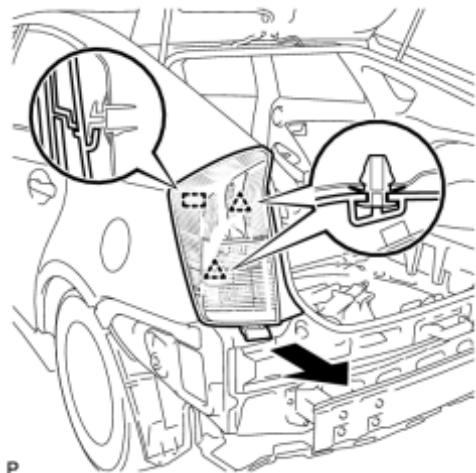
## 23. REMOVE DECK TRIM SIDE PANEL ASSEMBLY RH (for RH Side) INFO

## 24. REMOVE REAR COMBINATION LIGHT ASSEMBLY



(a) Disconnect the connector.

(b) Remove the 2 nuts.



(c) Disengage the 2 clips and guide, and remove the rear combination light assembly as shown in the illustration.

# DISASSEMBLY

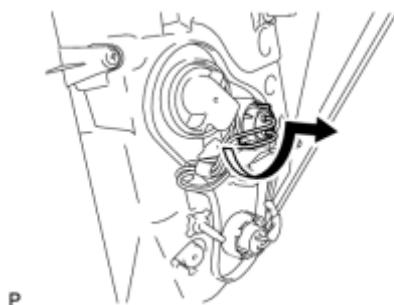
## 1. REMOVE REAR COMBINATION LIGHT BODY GASKET



(a) Remove the rear combination light body gasket.

- Be sure to remove all the traces of the old gasket from the body.
- Do not reuse the removed gasket. Be sure to install a new rear combination light body gasket to prevent water ingress.

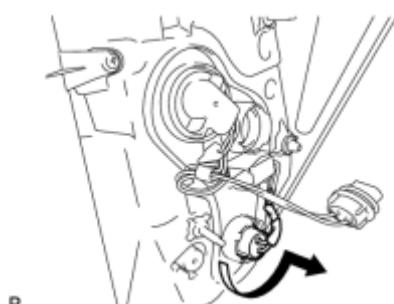
## 2. REMOVE REAR TURN SIGNAL LIGHT BULB



(a) Turn the rear turn signal light bulb and rear combination light socket and wire sub-assembly in the direction indicated by the arrow shown in the illustration, and remove them as a unit.

(b) Remove the rear turn signal light bulb from the rear combination light socket and wire sub-assembly.

## 3. REMOVE BACK-UP LIGHT BULB

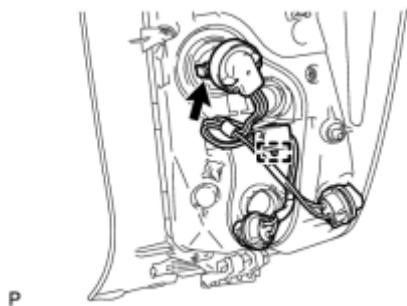
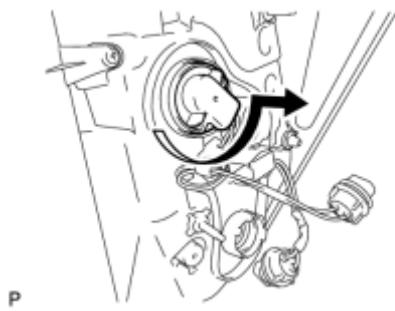


(a) Turn the back-up light bulb and rear combination light socket and wire sub-assembly in the direction indicated by the arrow shown in the illustration, and remove them as a unit.

(b) Remove the back-up light bulb from the rear combination light socket and wire sub-assembly.

## 4. REMOVE REAR COMBINATION LIGHT SOCKET AND WIRE SUB-ASSEMBLY

(a) Turn the cap in the direction indicated by the arrow shown in the illustration and separate it.

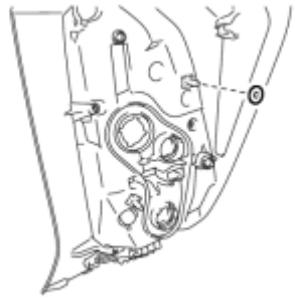


(b) Disconnect the connector.



(a) Using a screwdriver, disengage the claw and remove the rear bumper upper retainer.

## 5. REMOVE REAR BUMPER UPPER RETAINER

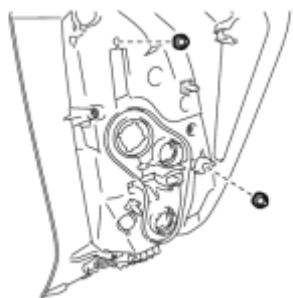


(a) Remove the rear combination light gasket.

- Be sure to remove all the traces of the old gasket from the body.
- Do not reuse the removed gasket. Be sure to install a new rear combination light gasket to prevent water ingress.

## 7. REMOVE REAR LIGHT GUIDE

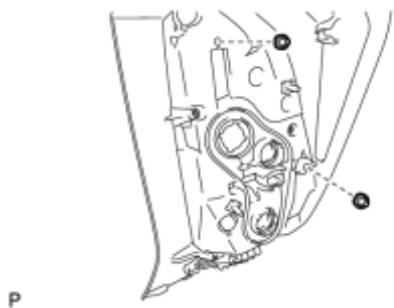
(a) Remove the 2 rear light guides.



P

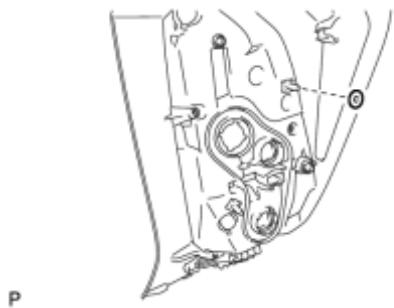
# REASSEMBLY

## 1. INSTALL REAR LIGHT GUIDE



(a) Install 2 new rear light guides.

## 2. INSTALL REAR COMBINATION LIGHT GASKET



(a) Install a new rear combination light gasket.

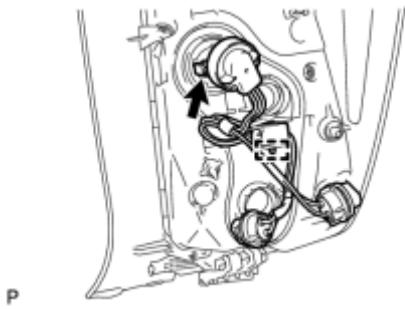
## 3. INSTALL REAR BUMPER UPPER RETAINER



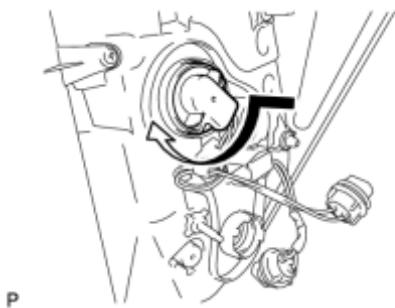
(a) Engage the claw and install the rear bumper upper retainer.

## 4. INSTALL REAR COMBINATION LIGHT SOCKET AND WIRE SUB-ASSEMBLY

(a) Engage the clamp.



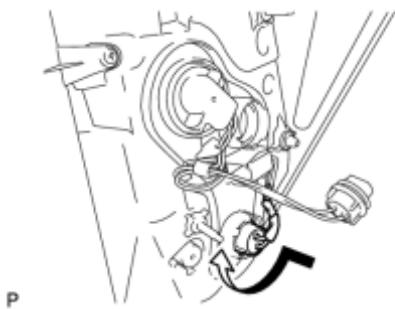
(b) Connect the connector.



(c) Turn the cap in the direction indicated by the arrow shown in the illustration to install the cap of the rear combination light socket and wire sub-assembly.

## 5. INSTALL BACK-UP LIGHT BULB

(a) Install the back-up light bulb to the rear combination light socket and wire sub-assembly.

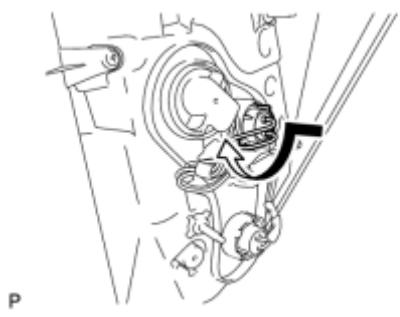


(b) Turn the back-up light bulb and rear combination light socket and wire sub-assembly in the direction indicated by the arrow shown in the illustration to install them as a unit.

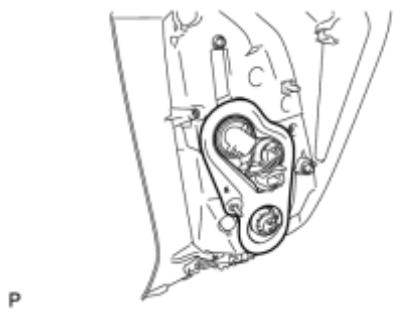
## 6. INSTALL REAR TURN SIGNAL LIGHT BULB

(a) Install the rear turn signal light bulb to the rear combination light socket and wire sub-assembly.

(b) Turn the rear turn signal light bulb and rear combination light socket and wire sub-assembly in the direction indicated by the arrow shown in the illustration to install them as a unit.



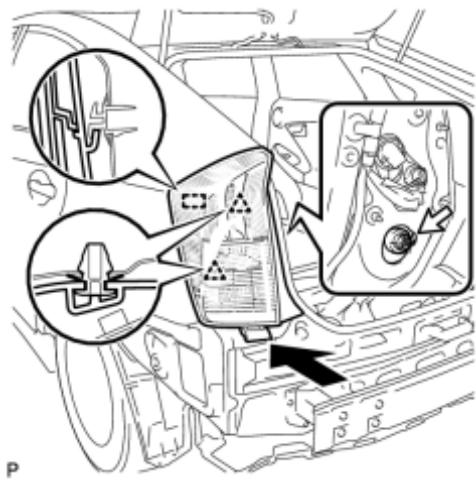
## 7. INSTALL REAR COMBINATION LIGHT BODY GASKET



(a) Install a new rear combination light body gasket.

# INSTALLATION

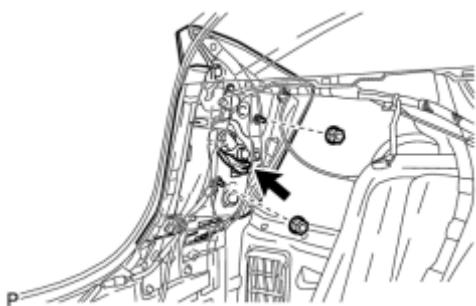
## 1. INSTALL REAR COMBINATION LIGHT ASSEMBLY



(a) Engage the guide and 2 clips, and install the rear combination light assembly as shown in the illustration.

### CAUTION:

When installing the rear combination light assembly, check that the wire harness is not caught between the rear combination light assembly and the body. Failure to do so may cause a short circuit.



(b) Install the 2 nuts.

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

(c) Connect the connector.

## 2. INSTALL DECK TRIM SIDE PANEL ASSEMBLY LH (for LH Side) INFO

## 3. INSTALL TONNEAU COVER HOLDER CAP (for LH Side) INFO

## 4. INSTALL LUGGAGE HOLD BELT STRIKER ASSEMBLY (for LH Side) INFO

## 5. INSTALL DECK TRIM SIDE PANEL ASSEMBLY RH (for RH Side) INFO

## 6. INSTALL TONNEAU COVER HOLDER CAP (for RH Side)

### HINT:

Use the same procedure described for the LH side.

## 7. INSTALL LUGGAGE HOLD BELT STRIKER ASSEMBLY (for RH Side)

### HINT:

Use the same procedure described for the LH side.

8. INSTALL REAR SIDE SEATBACK ASSEMBLY LH (for LH Side) [INFO](#)

9. INSTALL REAR SIDE SEATBACK ASSEMBLY RH (for RH Side)

HINT:

Use the same procedure described for the LH side.

10. INSTALL REAR SEAT CUSHION ASSEMBLY [INFO](#)

11. INSTALL REAR DECK TRIM COVER [INFO](#)

12. INSTALL DECK TRIM SERVICE HOLE COVER [INFO](#)

13. INSTALL REAR NO. 1 FLOOR BOARD [INFO](#)

14. INSTALL REAR NO. 2 FLOOR BOARD SUB-ASSEMBLY [INFO](#)

15. INSTALL REAR NO. 1 FLOOR BOARD SUB-ASSEMBLY [INFO](#)

16. INSTALL TONNEAU COVER ASSEMBLY (w/ Tonneau Cover) [INFO](#)

17. INSTALL DECK FLOOR BOX LH (for LH Side) [INFO](#)

18. INSTALL REAR NO. 4 FLOOR BOARD (for LH Side) [INFO](#)

19. CONNECT REAR DOOR OPENING TRIM WEATHERSTRIP [INFO](#)

20. INSTALL REAR DOOR SCUFF PLATE [INFO](#)

21. INSTALL REAR NO. 3 FLOOR BOARD (for RH Side) [INFO](#)

22. INSTALL REAR DECK FLOOR BOX [INFO](#)

23. INSTALL REAR NO. 2 FLOOR BOARD (for Separate Type) [INFO](#)

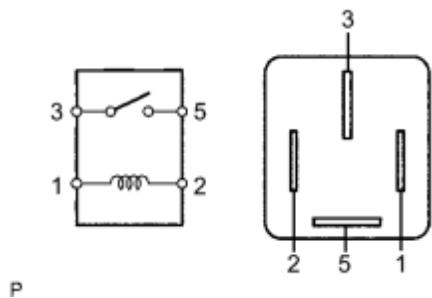
24. INSTALL REAR BUMPER ASSEMBLY [INFO](#)

25. BUMPER POSITION SETTING (w/ Advanced Parking Guidance System)

[INFO](#)

# ON-VEHICLE INSPECTION

## 1. INSPECT HEADLIGHT DIMMER RELAY (DIM)



(a) Remove the headlight dimmer relay from the engine room relay block.

(b) Measure the resistance according to the value(s) in the table below.

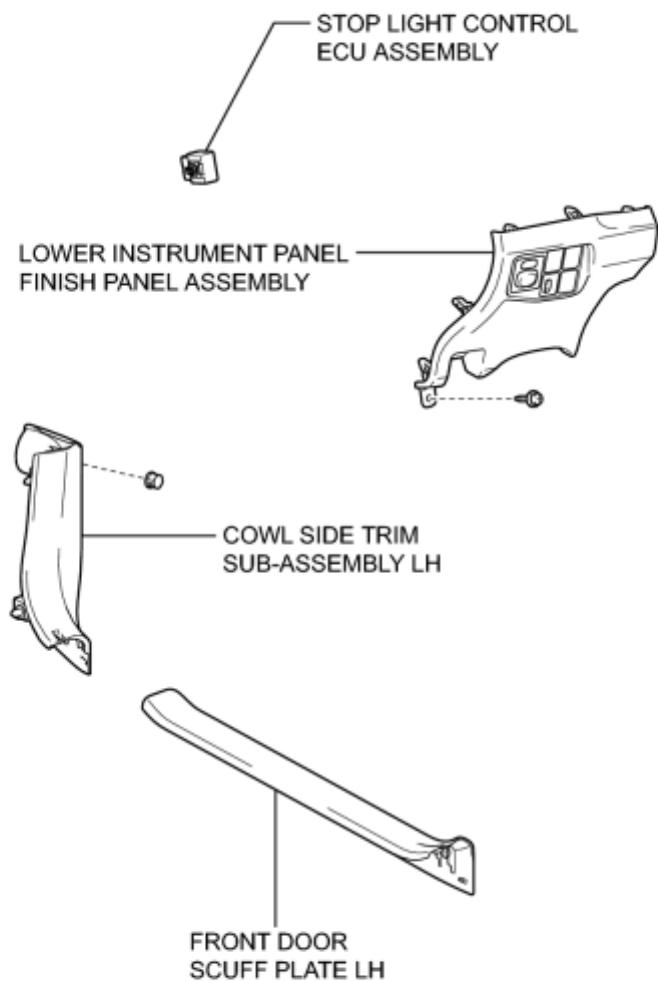
Standard Resistance:

Tester Connection	Condition	Specified Condition
3 - 5	Voltage is not applied between terminals 1 and 2	10 k $\Omega$ or higher
3 - 5	Voltage is applied between terminals 1 and 2	Below 1 $\Omega$

If the result is not as specified, replace the headlight dimmer relay.

# COMPONENTS

## ILLUSTRATION



# REMOVAL

1. REMOVE FRONT DOOR SCUFF PLATE LH INFO
2. REMOVE COWL SIDE TRIM SUB-ASSEMBLY LH INFO
3. REMOVE LOWER INSTRUMENT PANEL FINISH PANEL ASSEMBLY INFO
4. REMOVE STOP LIGHT CONTROL ECU ASSEMBLY



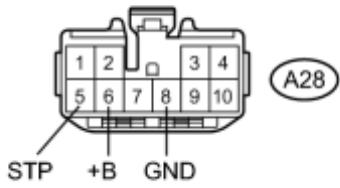
(a) Using a clip remover, disengage the clamp.

(b) Disconnect the connector and remove the stop light control ECU assembly.

# INSPECTION

## 1. INSPECT STOP LIGHT CONTROL ECU ASSEMBLY

\*1



(a) Disconnect the A28 stop light control ECU assembly connector.

(b) Measure the voltage according to the value(s) in the table below.

Standard Voltage:

Tester Connection	Condition	Specified Condition
A28-5 (STP) - Body ground	Brake pedal released	Below 1 V
	Brake pedal depressed	11 to 14 V
A28-6 (+B) - Body ground	Always	11 to 14 V

### *Text in Illustration*

*1	Front view of wire harness connector (to Stop Light Control ECU Assembly)
----	--

If the result is not as specified, repair or replace the wire harness or connector.

(c) Measure the resistance according to the value(s) in the table below.

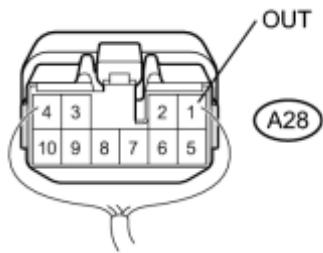
Standard Resistance:

Tester Connection	Condition	Specified Condition
A28-8 (GND) - Body ground	Always	Below 1 Ω

If the result is not as specified, repair or replace the wire harness or connector.

(d) Reconnect the A28 stop light control ECU assembly connector.

\*1



H

(e) Measure the voltage according to the value(s) in the table below.

Standard Voltage:

Tester Connection	Condition	Specified Condition
A28-1 (OUT) - Body ground	Brake pedal released	Below 1 V
	Brake pedal depressed	11 to 14 V

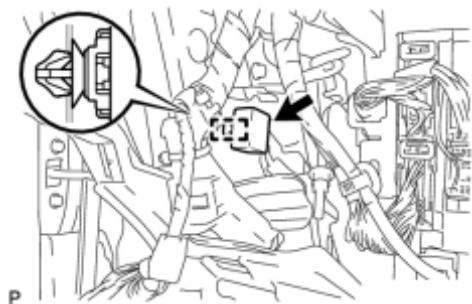
***Text in Illustration***

*1	Component without harness connected (Stop Light Control ECU Assembly)
----	--

If the result is not as specified, the stop light control ECU assembly may have a malfunction.

# INSTALLATION

## 1. INSTALL STOP LIGHT CONTROL ECU ASSEMBLY



(a) Connect the connector.

(b) Engage the clamp to install the stop light control ECU assembly.

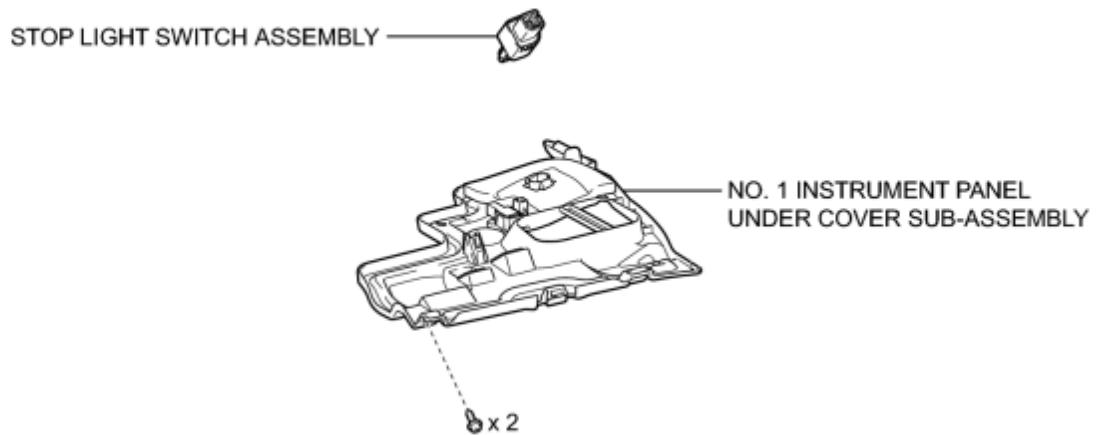
## 2. INSTALL LOWER INSTRUMENT PANEL FINISH PANEL ASSEMBLY INFO

## 3. INSTALL COWL SIDE TRIM SUB-ASSEMBLY LH INFO

## 4. INSTALL FRONT DOOR SCUFF PLATE LH INFO

# COMPONENTS

## ILLUSTRATION



P

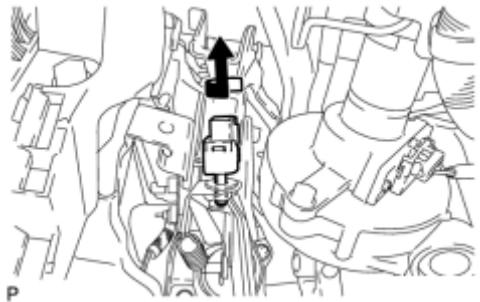
# REMOVAL

1. REMOVE NO. 1 INSTRUMENT PANEL UNDER COVER SUB-ASSEMBLY INFO

2. REMOVE STOP LIGHT SWITCH ASSEMBLY



(a) Disconnect the connector.



(b) Turn the stop light switch assembly counterclockwise and remove it.

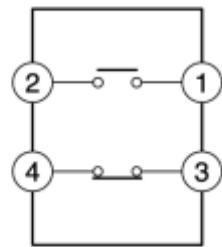
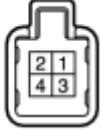
# INSPECTION

## 1. INSPECT STOP LIGHT SWITCH ASSEMBLY

(a) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

\*1



Tester Connection	Switch Condition	Specified Condition
1 - 2	Pushed	10 kΩ or higher
	Not pushed	Below 1 Ω
3 - 4	Pushed	Below 1 Ω
	Not pushed	10 kΩ or higher

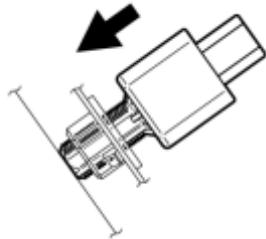
### Text in Illustration

*1	Component without harness connected (Stop Light Switch Assembly)
----	---

If the result is not as specified, replace the stop light switch assembly.

# INSTALLATION

## 1. INSTALL STOP LIGHT SWITCH ASSEMBLY

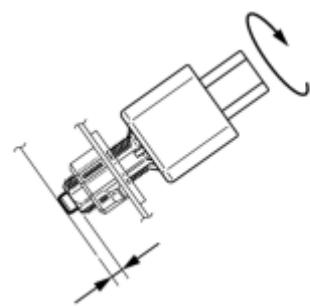


(a) Insert the stop light switch assembly until the rod hits the pedal.

NOTICE:

When inserting the stop light switch assembly, support the pedal from behind so that the pedal is not pushed in.

P



(b) Make a quarter turn clockwise to install the stop light switch assembly.

Torque: **1.5 N·m (15 kgf·cm, 13in·lbf)** or less

NOTICE:

When inserting the stop light switch assembly, support the pedal from behind so that the pedal is not pushed in.

P

(c) Connect the connector.

(d) Check the protrusion of the rod.

Protrusion of the rod:

1.5 to 2.5 mm (0.0591 to 0.0984 in.)

If the protrusion is not as specified, adjust it.

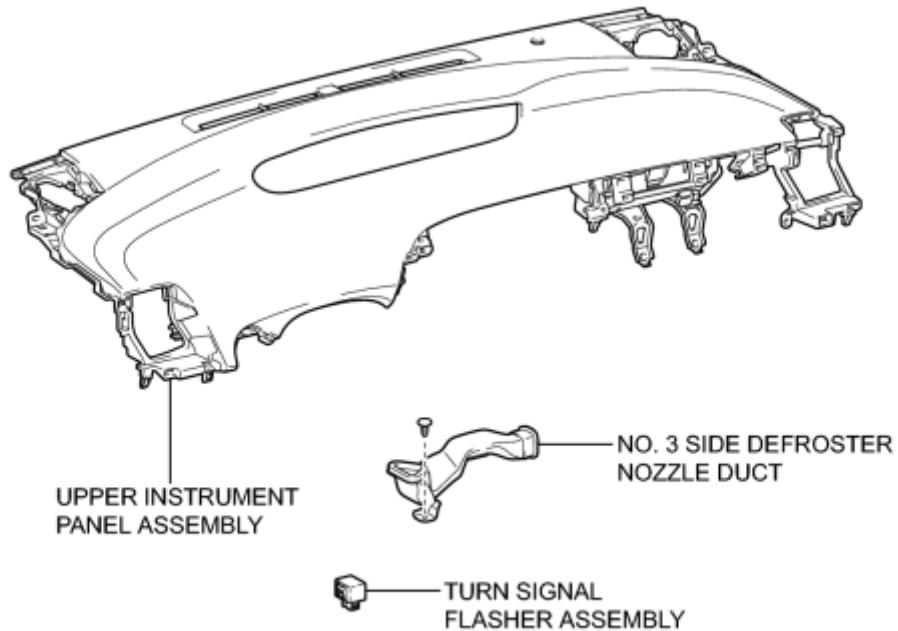
NOTICE:

Do not depress the brake pedal.

## 2. INSTALL NO. 1 INSTRUMENT PANEL UNDER COVER SUB-ASSEMBLY INFO

# COMPONENTS

## ILLUSTRATION



# REMOVAL

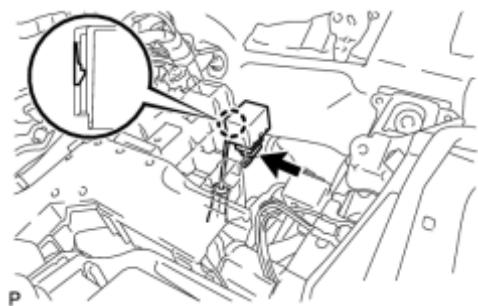
## 1. REMOVE UPPER INSTRUMENT PANEL ASSEMBLY

HINT:

Refer to the procedure up to Remove Upper Instrument Panel Assembly [INFO](#).

## 2. REMOVE NO. 3 SIDE DEFROSTER NOZZLE DUCT [INFO](#)

## 3. REMOVE TURN SIGNAL FLASHER ASSEMBLY



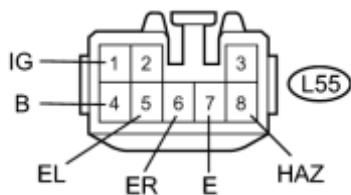
(a) Using a screwdriver, disengage the claw.

(b) Disconnect the connector and remove the turn signal flasher assembly.

# INSPECTION

## 1. INSPECT TURN SIGNAL FLASHER ASSEMBLY

\*1



(a) Disconnect the L55 turn signal flasher assembly connector.

(b) Measure the voltage according to the value(s) in the table below.

Standard Voltage:

Tester Connection	Condition	Specified Condition
L55-1 (IG) - Body ground	Power switch off	Below 1 V
	Power switch on (IG)	11 to 14 V
L55-4 (B) - Body ground	Always	11 to 14 V

### *Text in Illustration*

*1	Front view of wire harness connector (to Turn Signal Flasher Assembly)
----	---

If the result is not as specified, repair or replace the wire harness or connector.

(c) Measure the resistance according to the value(s) in the table below.

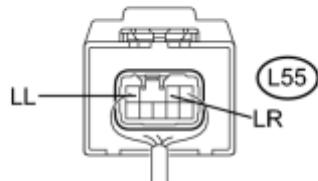
Standard Resistance:

Tester Connection	Switch Condition	Specified Condition
L55-5 (EL) - Body ground	Turn signal switch off	10 kΩ or higher
	Turn signal switch in left turn position	Below 1 Ω
L55-6 (ER) - Body ground	Turn signal switch in neutral position	10 kΩ or higher
	Turn signal switch in right turn position	Below 1 Ω
L55-7 (E) - Body ground	Always	Below 1 Ω

Tester Connection	Switch Condition	Specified Condition
L55-8 (HAZ) - Body ground	Hazard warning switch off	10 kΩ or higher
	Hazard warning switch on	Below 1 Ω

If the result is not as specified, repair or replace the wire harness or connector.

\*1



(d) Reconnect the L55 turn signal flasher assembly connector.

H

(e) Measure the voltage according to the valve(s) in the table below.

Standard Voltage:

Tester Connection	Switch Condition	Specified Condition
L55-2 (LR) - Body ground	Hazard warning switch off	Below 1 V
	Hazard warning switch on	11 to 14 V (60 to 120 times per minute)
	Turn signal switch off	Below 1 V
	Power switch on (IG) and turn signal switch in RH position	11 to 14 V (60 to 120 times per minute)
L55-3 (LL) - Body ground	Hazard warning switch off	Below 1 V
	Hazard warning switch on	11 to 14 V (60 to 120 times per minute)
	Turn signal switch off	Below 1 V
	Power switch on (IG) and turn signal switch in LH position	11 to 14 V (60 to 120 times per minute)

#### Text in Illustration

*1	Component with harness connected (Turn Signal Flasher Assembly)
----	--

If the result is not as specified, the turn signal flasher assembly may have a malfunction.

# INSTALLATION

## 1. INSTALL TURN SIGNAL FLASHER ASSEMBLY



(a) Connect the connector.

(b) Engage the claw to install the turn signal flasher assembly.

## 2. INSTALL NO. 3 SIDE DEFROSTER NOZZLE DUCT INFO

## 3. INSTALL UPPER INSTRUMENT PANEL ASSEMBLY

HINT:

Refer to the procedure from Install Upper Instrument Panel Assembly INFO.