

WASHER MOTOR (for Front Side) > INSTALLATION

for Preparation [Click here](#)

1. INSTALL WINDSHIELD WASHER MOTOR AND PUMP ASSEMBLY

- a. Install the windshield washer motor and pump to the packing of the washer jar.

2. INSTALL WINDSHIELD WASHER JAR ASSEMBLY

- a. Attach the guide to install the washer jar, and then install the 3 screws.

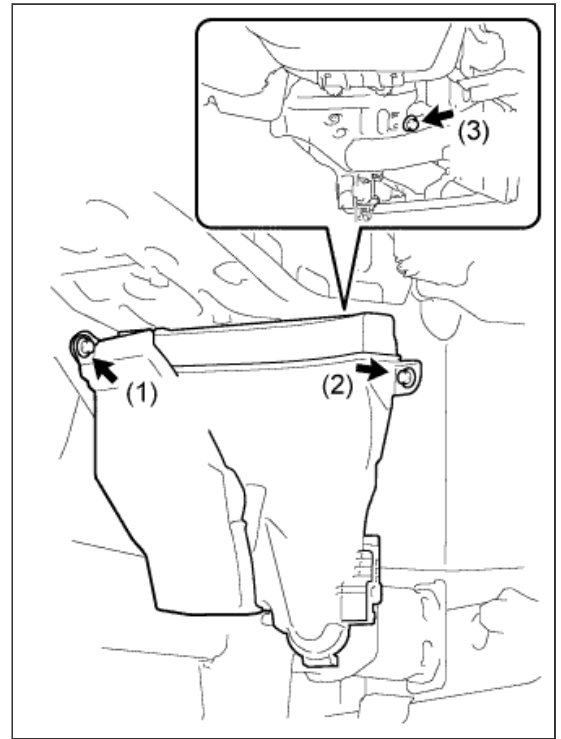
Torque:

5.5 N*m { 56 kgf*cm , 49 in.*lbf }

NOTICE:

Tighten the screws in the order shown in the illustration.

- b. w/o Headlight Cleaner System:
Connect the connector.
- c. w/ Headlight Cleaner System:
Connect the 3 connectors.



3. INSTALL WASHER INLET SUB-ASSEMBLY

- a. Attach the claw to install the washer inlet sub-assembly.

4. FILL WASHER JAR WITH WASHER FLUID

- a. Connect the washer hose to the hose of the windshield washer motor and pump assembly and fill the washer jar with washer fluid.

5. INSTALL FRONT FENDER SPLASH SHIELD SUB-ASSEMBLY RH

- a. Attach 14 new grommets to install the front fender splash shield sub-assembly.
- b. Install the 3 screws.

6. INSTALL FRONT WHEEL

7. INSTALL FRONT BUMPER COVER

- a. w/ LEXUS Parking Assist-sensor System:
Connect the connector.
- b. Connect the headlight cleaner hose and 2 fog light connectors.
- c. Attach the 14 claws to install the front bumper cover.
- d. Install the 4 screws.

- e. Install the 2 bolts labeled A, 2 bolts labeled B, 2 screws and 4 clips.

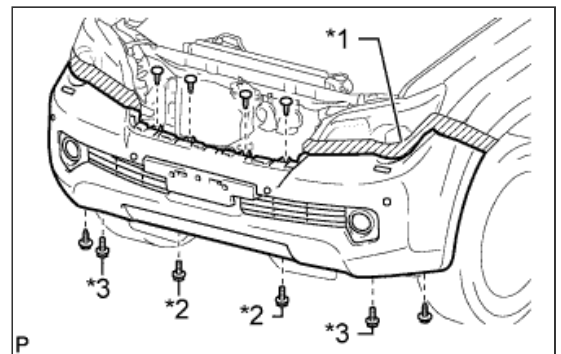
Torque:

for bolt A:

8.0 N*m { 82 kgf*cm , 71 in.*lbf }

Text in Illustration

*1	Protective Tape
*2	Bolt A
*3	Bolt B



8. INSTALL RADIATOR GRILLE

- a. Install the radiator grille ([Click here](#)).

9. FOG LIGHT AIMING (w/ Fog Light)

- a. Prepare the vehicle:
 - Make sure that there is no damage to or deformation of 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, making sure that the spare tire, tools and jack are also removed.
 - Have a person of average weight (75 kg, 165lb) sit in the driver seat.

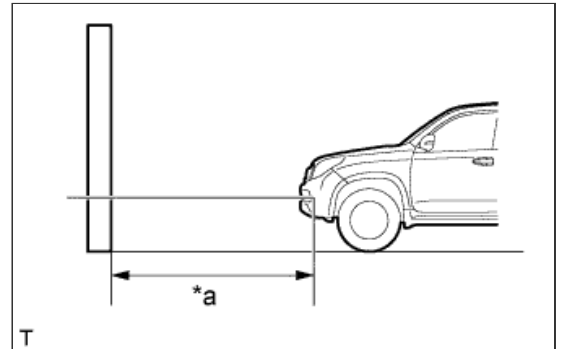
10. PREPARATION FOR FOG LIGHT AIMING (w/ Fog Light)

a. Prepare the vehicle:

Text in Illustration

*a	25 or 3 m
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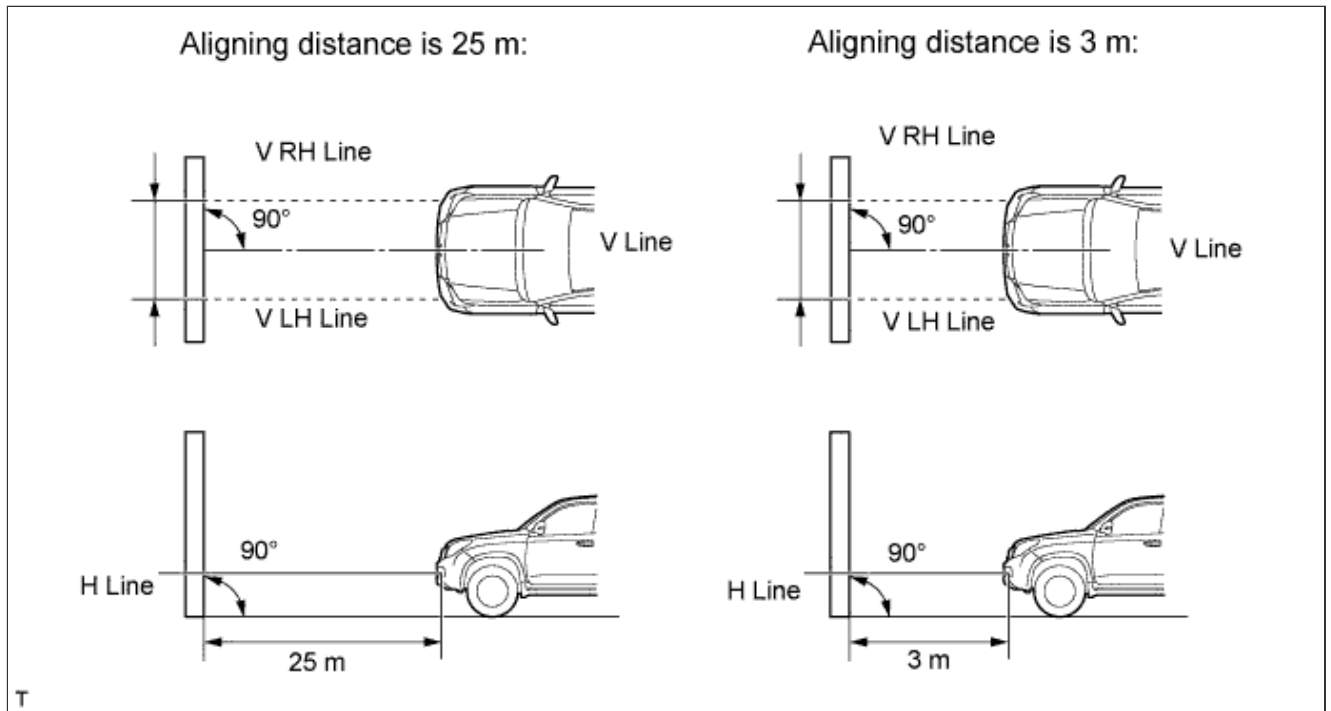
- Place the vehicle in a location that is dark enough to clearly observe the cutoff line. The cutoff line is a distinct line, below which light from the fog lights can be observed and above which it cannot.
- Place the vehicle at a 90° angle to the wall.
- Create a 25 m (82.0 ft.) distance between the vehicle (fog light bulb center) and the wall.
- Make sure that the vehicle is on a level surface.
- Bounce the vehicle up and down to settle the suspension.



NOTICE:

A distance of 25 m (82.0 ft.) between the vehicle (fog light bulb center) and wall is necessary for proper aim adjustment. If unavailable, secure a distance of exactly 3 m (9.84 ft.) for the check and adjustment (the target zone will change with the distance, so follow the instructions in the illustration).

- b.** Prepare a piece of thick white paper approximately 2.0 m (6.56 ft.) (height) x 4.0 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.



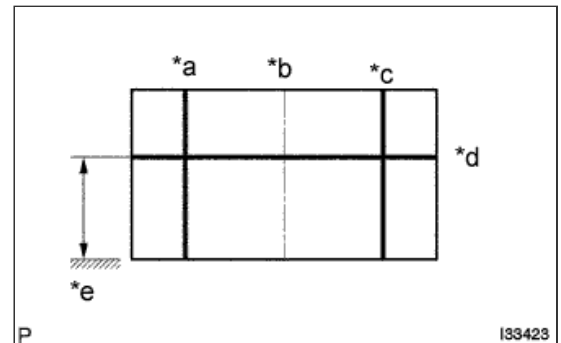
HINT:

- 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.

Text in Illustration

*a	V LH Line
*b	V Line
*c	V RH Line
*d	H Line
*e	Ground



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 name of the manufacturer marked on the fog light as the center mark.

- 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.
- 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.

11. INSPECT FOG LIGHT AIMING (w/ Fog Light)

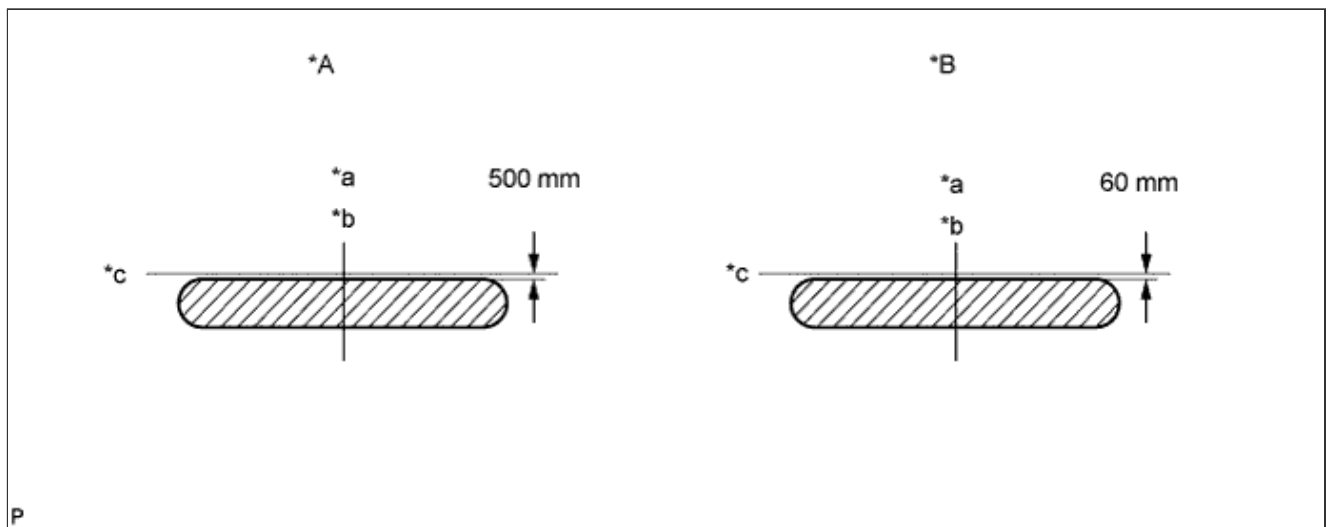
- a. Cover the fog light or disconnect the connector of the fog light on the opposite side to prevent light from the fog light that is not being inspected from affecting the fog light aiming inspection.

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 light and check if the cutoff line falls within the specified area in the following illustration.



Text in Illustration

*A	Aligning distance is 25 m	*B	Aligning distance is 3 m
*a	V LH Line	*b	V RH Line
*c	H Line	-	-

12. ADJUST FOG LIGHT AIMING (w/ Fog Light)

- a. Adjust the aim vertically.

Text in Illustration

*1	Aiming Screw
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Adjust the aim of each fog light to the specified range by turning the 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:

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

