ADJUSTMENT

1. VEHICLE PREPARATION FOR HEADLIGHT AIM ADJUSTMENT

- (a) Prepare the vehicle:
 - Ensure that 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.
 - Place the spare tire, tools, and jack in their original positions.
 - Unload the trunk.
 - Sit a person of average weight (68 kg, 150 lb) in the driver side seat.

2. PREPARATION FOR HEADLIGHT AIMING (for Using a Tester)

- (a) Prepare the vehicle for headlight aim check.
- (b) Perform adjustment in accordance with the headlight tester instructions.

3. PREPARATION FOR HEADLIGHT AIMING (for Using a Screen)

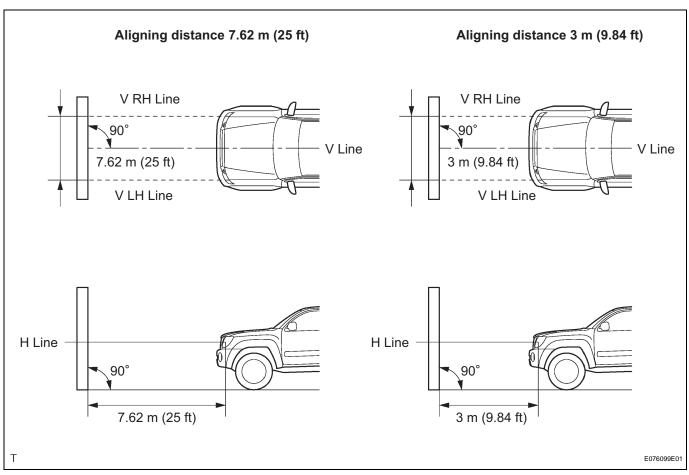
- (a) Prepare the vehicle according to the following conditions:
 - Place the vehicle in a location that is dark enough to clearly observe the cutoff line. The cutoff line is a distinct line, below which light from the headlights can be observed and above which it cannot.
 - Place the vehicle at a 90° angle to the wall.
 - Keep a 7.62 m (25 ft) distance between the center of the headlight bulb and the wall.
 - Place the vehicle on a level surface.
 - Bounce the vehicle up and down to settle the suspension.

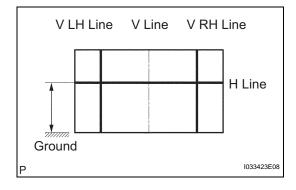
NOTICE:

A distance of 7.62 m (25 ft) between the vehicle (center of the headlight bulb) and the wall is necessary for proper aim adjustment. If unavailable to secure a distance of 7.62 m (25 ft), secure a distance of exactly 3 m (9.84 ft) to check and adjust the headlight aim. (Since the target zone will change with the distance, follow the instructions shown 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 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 line, V LH, V RH lines) on the screen as shown in the illustration. HINT:
 - The base lines differ for "low-beam inspection" and "high-beam inspection".
 - Follow the same procedures as for "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 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. HEADLIGHT AIMING INSPECTION

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

NOTICE:

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

(b) Start the engine.

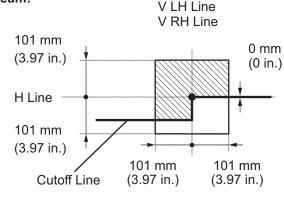
NOTICE:

Engine rpm must be 1,500 or more.

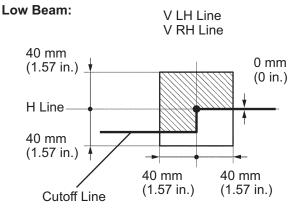
(c) Turn on the headlight and make sure that the cutoff line falls within the specified area, as shown in the illustration.

Aligning distance 7.62 m (25 ft):

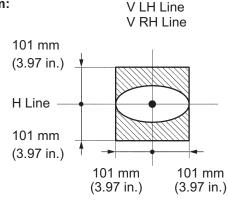
Low Beam:



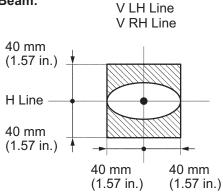
Aligning distance 3 m (9.84 ft):



High Beam:



High Beam:



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HINT:

Alignment distance is 7.62 m (25 ft):
 The cutoff line is 101 mm (3.97 in.) above and below the H line as well as to the left and right of the V line with low-beam (SAEJ599).

- Alignment distance is 3 m (9.84 ft):
 The cutoff line is 40 mm (1.57 in.) above and below the H line as well as to the left and right of the V line with low-beam (SAEJ599).
- Alignment distance is 7.62 m (25 ft):
 The cutoff line is 101 mm (3.97 in.) above and below the H line as well as to the left and right of the V line with high-beam (SAEJ599).
- Alignment distance is 3 m (9.84 ft):
 The cutoff line is 40 mm (1.57 in.) above and below the H line as well as to the left and right of the V line with high-beam (SAEJ599).
- Alignment distance is 7.62 m (25 ft):
 The cutoff line is 0 mm (0 in.) below the H line with low-beam.
- Alignment distance is 3 m (9.84 ft):
 The cutoff line is 0 mm (0 in.) below the H line with low-beam.



(a) Adjust the aim vertically:

Adjust the headlight aim into the specified range by turning aiming screw A 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.

(b) Perform low-beam aim adjustment. HINT:

The headlight aim moves up when turning the

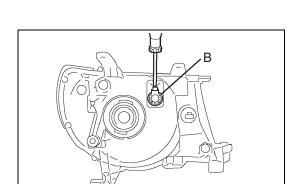
aiming screw clockwise, and moves down when turning the aiming screw counterclockwise.

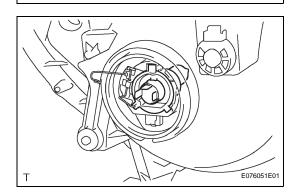
(c) Adjust the aim horizontally:Adjust the headlight aim into the specified range by

turning aiming screw B 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.



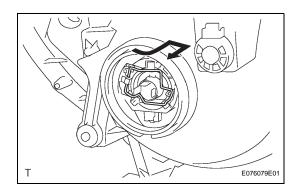


INSTALLATION

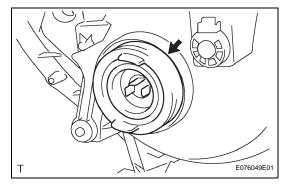
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- 1. INSTALL NO. 1 HEADLIGHT, BULB
 - (a) Install the No. 1 headlight bulb.





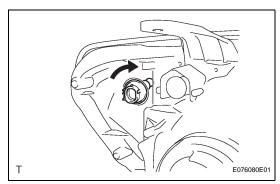
(b) Lock the set spring by moving it in the direction indicated by the arrow in the illustration.



(c) Install the socket cover.

2. INSTALL CLEARANCE LIGHT BULB

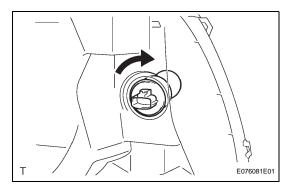
(a) Install the clearance light bulb into the light socket.



(b) To install the clearance light bulb socket and bulb, turn them in the direction indicated by the arrow in the illustration.

3. INSTALL FRONT TURN SIGNAL LIGHT BULB

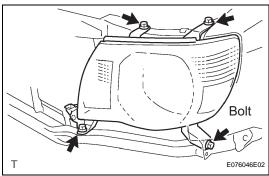
(a) Install the front turn signal light bulb into the light socket.



(b) To install the front turn signal light bulb socket and bulb, turn them in the direction indicated by the arrow in the illustration.

4. INSTALL HEADLIGHT ASSEMBLY

(a) Connect the 3 connectors.



(b) Install the LH headlight assembly with the bolt and 3 screws.

Torque: 2.0 N*m (20 kgf*cm, 17 in.*lbf)

- 5. INSTALL FRONT BUMPER FILLER (See page ET-9)
- 6. INSTALL FRONT BUMPER COVER (See page ET-11)
- 7. INSTALL RADIATOR GRILLE (See page ET-11)
- 8. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

Torque: 3.9 N*m (40 kgf*cm, 35 in.*lbf)

- 9. VEHICLE PREPARATION FOR HEADLIGHT AIM ADJUSTMENT (See page LI-5)
- 10. PREPARATION FOR HEADLIGHT AIMING (for Using a Tester) (See page LI-5)
- 11. PREPARATION FOR HEADLIGHT AIMING (for Using a Screen) (See page LI-5)
- 12. HEADLIGHT AIMING INSPECTION (See page LI-7)
- 13. HEADLIGHT AIMING ADJUSTMENT (See page LI-9)