6511V–01

ADJUSTMENT

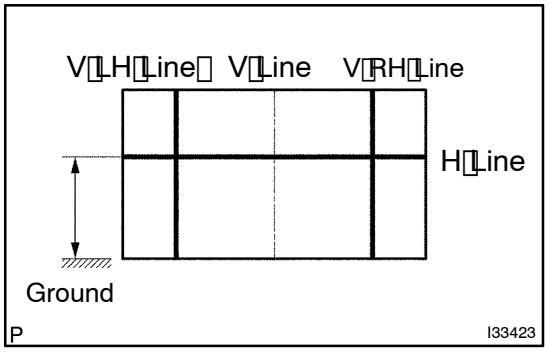
1. HEADLIGHT AIM ONLY

HINT:

- Perform aim adjustment with low–beam.
- Since the low–beam light and the high–beam light are a unit, if aiming on either side is correct, the other side should also be correct. However, check both beams just to make sure.

(a) Prepare the vehicle by performing the following.

- Ensure there is no damage or deformation to the body around the headlamps.
- 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 (see page 28–1).
- Place the spare tire, tools, and jack in their original position.
- Unload the trunk.
- Sit a person of average weight (75 kg, 165 lbs) in the driver's seat.



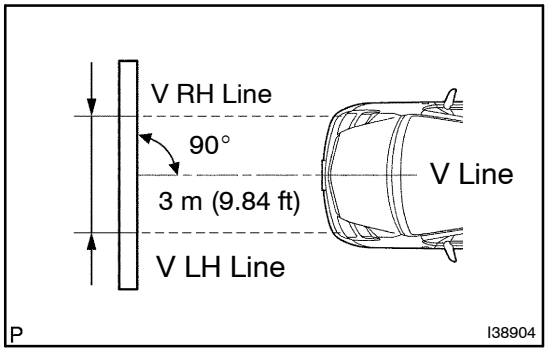
(b) Prepare a piece of thick white paper (draw base lines).

HINT:

- Stand the paper perpendicularly against a wall.
- The base lines differ for "Low–beam inspection" and "High–beam inspection".
  (1) V line (vehicle center position)
  Draw a vertical line down the center of the paper to align with the center of the vehicle.
  (2) H line (headlight height)
  Draw a horizontal line across the paper so that it is at the same height as the center mark of the low–beam light on the vehicle.
  (3) V LH line, V RH line (center mark position of right and left headlamps)
  Draw vertical lines on the left and right sides of the paper so that they line up with the center mark on the low–beam lights on the vehicle.

HINT:

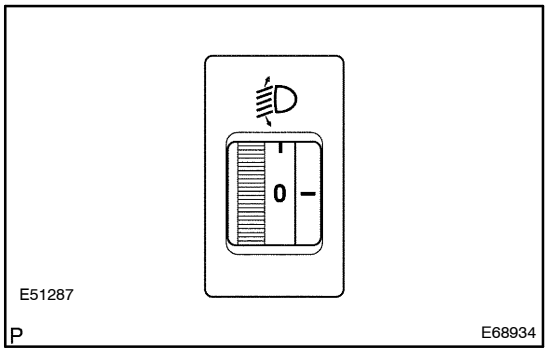
When performing "High–beam inspection", draw an H line, a V LH line, and a V RH line based on the center mark on the high–beam headlamp side.



(c) Check headlamp aim

(1) Align the vehicle with a piece of blank paper.

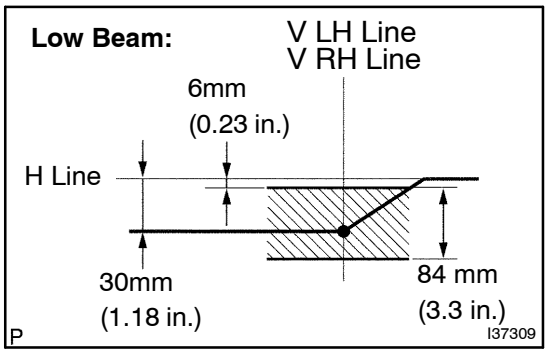
- Make a distance of 3 m (9.84 ft) between the headlamps and the paper. Place the paper against a wall with the H line at the same height as the center mark.
- Align the center of the vehicle with the V line on the paper. Ensure that the paper forms a 90° angle to the V line.

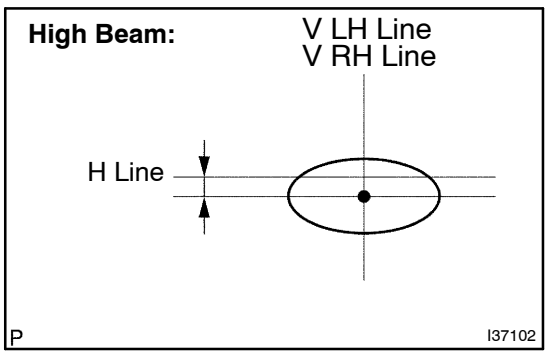


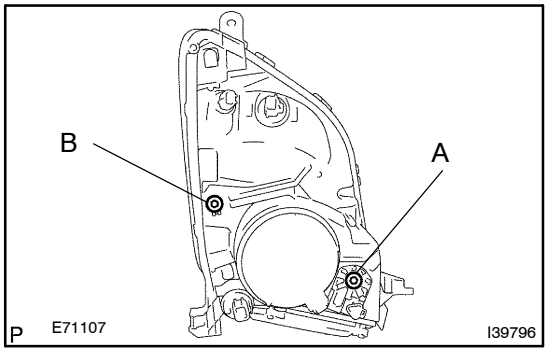
(2) Turn the headlamp leveling switch to 0.

(3) Start the engine.

(4) Turn the headlamps on and check if the aim falls within the standard shown below.







(d) To adjust the vertical aim:
Using a screwdriver, adjust the headlamp aim into the specified range by turning aiming screw A.

NOTICE:

- **Adjust the headlamp aim by turning the screw in the tightening direction.**
- **When the screw is tightened excessively, loosen it once and retighten it to adjust the headlamp aim.**

HINT:

The headlamp aim moves down when turning the screw clockwise, and moves up when turning the screw counterclockwise.

(e) To adjust the horizontal aim:
Using a screwdriver, adjust the headlamp aim into the specified range by turning aiming screw B.

NOTICE:

- **Adjust the headlamp aim by turning the screw in the tightening direction.**
- **When the screw is tightened excessively, loosen it once and retighten it to adjust the headlamp aim.**