

## Headlamp Adjustment

Adjust headlamps:

- whenever a headlamp is changed, or
- whenever the hood is adjusted, or
- at least every 50,000 miles (80,000 kilometers)

Follow the procedure below to adjust a headlamp

1. Ensure that the hood is properly adjusted (see section "Principles of Hood Adjustment" on page 22-14).
2. Ensure that the hood is closed and completely latched.
3. Ensure that the tires are inflated to an on-highway setting.
4. Ensure that the headlamp surfaces are clean and dry.
5. Position the vehicle on the level surface, as shown in [Figure 22-57](#), with the headlamps turned on to the low-beam level.
6. For vehicles with rear air suspension; ensure the suspension is adjusted to the appropriate setting.

### Rectangular Pod Mounted single or dual headlamps

These headlamps require a special device to complete the headlamp adjustment. Please follow the instructions provided with the headlamp adjustment device.

### Composite and Halogen Projector headlamps

1. Establish a horizontal line, no more than 1 in. (2.5 cm) wide, on a suitable aiming surface at the same height above a level surface as the optical center of the headlamp. The optical center is identified on the cover lens by a small dot. If a dot is not present, the optical center is the center of the beam that is being aimed. (see H-H Line in [Figure 22-57](#)).
2. Determine the headlamp identifier from the cover lens of the headlamp. Look for either the letters 'VOL' or 'VOR'.
3. Establish a second horizontal line, no more that 1 in. (2.5 cm) wide, below the H-H line. This is the A-A line. (See 'A-A line' in [Figure 22-57](#))

4. Turn the headlamp's adjuster until the aim zone visible in the beam pattern is level with the A-A line on the aiming surface; the lamp is now properly adjusted.

5. Repeat for opposite headlamp.

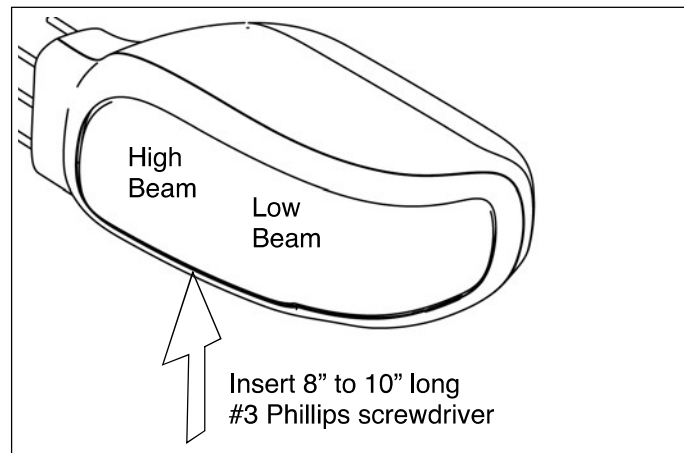
Low beams and high beams are integrated; only low beams need adjustment. The high beams should be level with the H-H line once the low beams are adjusted to the A-A line.



**NOTE:** These lamps only have provisions for vertical adjustment.

### Model 388 and 389

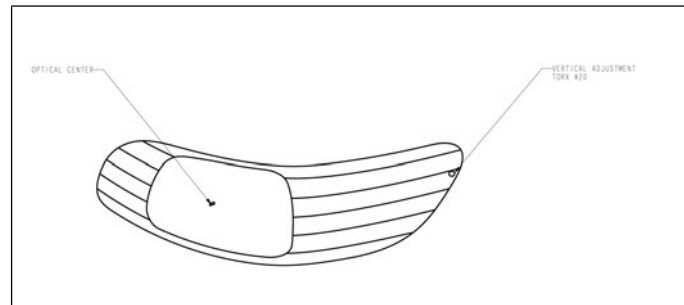
The adjustment screw is accessible through a hole located in the bottom of the headlamp pod. Use a #3 Phillips head screw driver that is at minimum of 8" long.



**Figure 22-55** Halogen Projector Headlamp

### Model 387

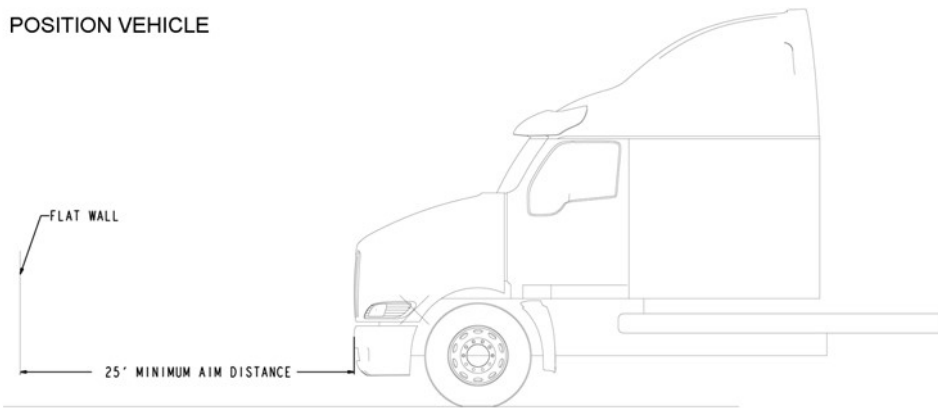
An adjustment screw is accessible through a hole located in the corner of the headlamp. Use a #20 torx screw driver.



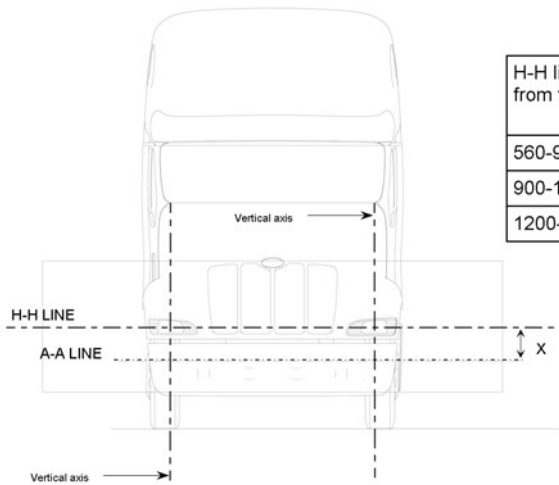
**Figure 22-56** Model 387 Headlamp

# Headlamp Adjustment

POSITION VEHICLE

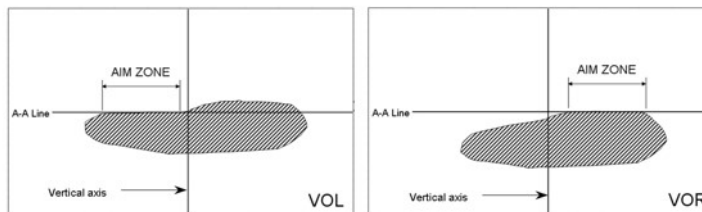


ESTABLISH HORIZONTAL AIM LINE



H-H line distance from floor (mm)	X VOR (mm)	X VOL (mm)
560-900	0	53
900-1200	50	103
1200-1372	64	117

ADJUST AIM ZONE



Beam pattern and aim zone  
(from inside of cab looking at flat wall)

Figure 22-57 Headlamp Aiming Specifications