

Did you know?

- Headlights don't just burn out—they dim over time.
- Poor visibility can make nighttime driving both difficult and potentially dangerous.
- For maximum visibility on the road, we recommend replacing bulbs in pairs at least every other year. High performance headlights may require more frequent replacement intervals.
- Your headlights should be aimed each time you replace them or when deemed necessary.
- It's easy. You can install and aim lights yourself in about an hour.

Get set, go!

- 1** Remove old headlights
- 2** Install new headlights
- 3** Check your aim

Begin with the Best

As a longtime leader in automotive lighting, SYLVANIA gives you the brightest, most innovative lighting options on the market. Our complete line of premium lighting products are designed to provide you with the highest quality light output on the road. For you, this premium standard means only one thing—increased driving visibility and safety. Whether you need low or high beam headlights, signal lights or fog lights, SYLVANIA Automotive Lighting gives you the vision to see farther, wider and better.

Install with Ease

Quality products are just the beginning of the SYLVANIA Automotive Lighting story. Our wide variety of headlights are designed for easy installation. Once you've replaced your headlights, be sure to aim them properly.

Consider an Upgrade

Our SilverStar® ULTRA line of high performance halogen headlights go the lighting distance with up to 40% increased downroad visibility, up to 50% more side road visibility and up to 50% brighter light compared to worn standard halogen headlights. Need a headlight replacement? Consider an upgrade with SYLVANIA SilverStar® ULTRA high performance halogen headlights.

SYLVANIA Automotive Lighting Light Work. Bright Results.

For more information
visit www.sylvania.com/auto



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- 1** Do-It-Yourself
- 2** Save Time
- 3** Save Money

Changing and Aiming Your Headlights Is As Easy As 1-2-3.

Presented by



In times past, it was necessary only to replace your headlights when they went out, but today since the manufacturing processes are better controlled it is likely that when one fails, the other is not far behind. It is strongly recommended that both sides (both low beams, or both high beams) be replaced at the same time. This is why replaceable headlights are commonly sold in pairs. This also allows better color match.



Precautions

- Consult owner's manual for bulb/headlight replacement procedures, needed tools and safety precautions.
- Always wear safety glasses— headlight bulbs are pressurized. Remove watches and loose jewelry. In extreme cases, fenders and other hardware must be removed (professional shop recommended).
- Make sure vehicle is on a level surface, in park (or in gear for standard), with emergency brake applied and engine cooled down. Remove the non-grounded terminal of the battery if applicable.

Recommended Tools

- Safety glasses
- Clean cloth gloves
- Clean cloth
- Phillips® Head Screwdriver or Torx® Screwdriver



Bulb Type Headlight Replacement



- 1 In the example shown here, the entire headlamp is accessed by easily removing a pin.
- 2 Unplug the connectors from the bulb(s) by pulling and gently rocking. If there is a rubber boot, brace the bulb while removing the connector.
- 3 Remove the old bulbs by twisting and pulling. In some cases, first remove the retaining ring or spring clip.
- 4 Clean the seating surfaces. Prevent dirt or water intrusion.
- 5 Wearing gloves, remove the bulb from its package (do not touch the bare bulb). Inspect to insure o-ring is properly fitted. Insert bulb into the headlamp.
- 6 Rotate bulb into place. Be sure to replace all retaining rings and rubber boots if applicable.
- 7 Plug in the electrical connectors and battery to check for operability. Reinstall and secure headlamp.
- 8 Replace any other parts removed during installation.
- 9 Check engine and surfaces carefully and remove tools and parts before closing the hood. Make sure the hood is fully latched.

Once both sides are finished, and the plastic lenses have been cleaned, you are ready to aim the headlamps (see **Aiming Instructions**).



Sealed Beam Headlight Replacement

- 1 Remove the exterior fascia.
- 2 The metal retainer ring is held in with 3-4 screws and should not be confused with the aiming screws. Remove the retainer ring while supporting the sealed beam (which may come out at the same time). Remove the electrical connector by pulling and gently rocking (note: if the wire length is short it may be necessary to remove the plug from the back side while temporarily holding the sealed beam back in position).
- 3 Carefully, clean the retainer and fascia.
- 4 Inspect the new sealed beam for excess epoxy or glue and remove if present.
- 5 Plug the electrical connector into the sealed beam securely. Support sealed beam to test low and/or high beam operation before proceeding.
- 6 Insert the sealed beam insuring that the lettering/labeling in the glass lens is upright. Work the sealed beam to insure it seats properly (if it does not you may have the wrong type). Replace the retainer ring and screws, then tighten.

Note: Go to **Aiming Instructions** before completing steps 7 & 8.

- 7 Replace and secure exterior fascia.
- 8 Check the engine compartment and surfaces carefully and remove tools and parts before closing the hood. Make sure the hood is fully latched.



Aiming Instructions

- The aiming method described below relies on best beam appearance.
 - For sealed beams, consult your owner's manual for alternate aiming method using raised pads.
- 1 Find a location where there is at least 40' (12 m) of FLAT ground from a garage door or wall.
 - 2 Pull the vehicle straight up to within 6" (15 cm) from the wall. With vehicle in park and emergency brake set, turn on the LOW BEAMS and mark the center of each light with a masking tape "+" target on the wall.
 - 3 a. Back the vehicle STRAIGHT back until you are about 25' (7.5 m) from the wall. Put the vehicle in park and set the emergency brake. b. Using the vertical adjustment* only: adjust the low beam. c. The top of the beam pattern should be about 1-2" (3-5 cm) below the horizontal line created by the targets. Horizontal adjustment is not usually required but the beam pattern created by each headlight should be down and to the right of each respective target.
 - 4 IF THE HIGH BEAMS ARE AIMED INDEPENDENTLY OF THE LOW BEAMS: follow the same general procedure for low beam aiming, except that the beam centers will now fall on new target centers.
 - 5 Check the engine compartment and surfaces carefully and remove tools and parts before closing the hood. Make sure the hood is fully latched.

*The adjusters are typically addressed with a large Phillips Head screwdriver or Torx screwdriver, depending on the vehicle, and accessed from the top (hood open), and from the front with sealed beams. Consult the owner's manual or dealer if in doubt, or make small adjustments and watch to see the effect on the beam.