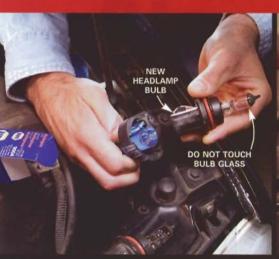
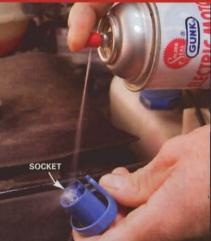
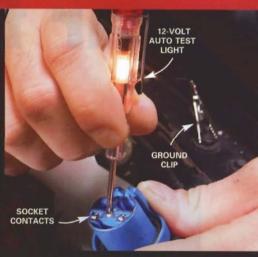
Auto care

Diagnose and fix a bad light socket

by Bob Lacivita and David Radtke







Many new car bulbs are easily accessed from under the hood by turning a retaining ring and pulling the bulb socket out, but if you have to access the bulb by removing a lens (see your owner's manual), you may need to buy a "torx" tip screwdriver. Remove the old bulb and insert the new bulb. Don't touch the glass of the bulb with your bare hands because the oils on your skin can cause the bulb to fail. Reinsert the socket into the headlamp housing and turn on your lights. If they work, you're done; if they don't, go on to the next step.

TEST LIGHT

Turn off the light switch and remove the bulb again. Clean the socket with electrical contact cleaner, which is available at auto parts stores. If you see heavy corrosion, scrape it off with a small screwdriver or wire brush. Then move on to Step 3.



Test for power at the socket. Turn on the light switch, then ground the tester to a clean screw on the body of the car. Probe the contacts to see if the tester lights. If the contacts look corroded, scratch the surface, but be careful not to bend or distort them. The tester should light for two out of three contacts (one won't because it's a ground). If two of them light, insert the bulb. If the bulb still only one or no contact shows power. go to Step 4.

Tip: Be careful not to touch two contacts at the same time or you could cause a short circuit and blow a fuse. hen a headlight goes out, the problem is usually a bad bulb, which is easily replaced. However, the problem could also be a corroded socket or a bad wire. Keep in mind that when several lights are out, such as both headlamps or both taillights, the problem is most likely a fuse. (See "Replacing Auto Fuses," July/August '03,

p. 99. To order a copy, see p. 7.) If the fuse is bad, you can replace it and most likely be on your way.

In this article, we'll show you how to replace the bulb, and if that fails, we'll show you how to diagnose a bad socket and probe the wiring with a simple 12-volt automotive test light (\$8 at an auto parts store).

