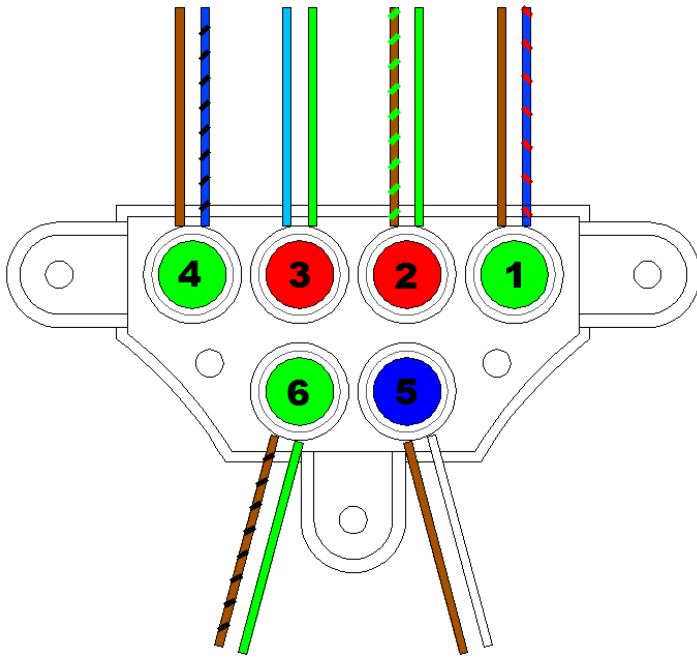


Replacing 1991-95 GS Telltale warning lights w/ leds



View from Rear

- 1 **LEFT Turn:** Brown & Blue w/Red
- 2 **OIL:** Brown w/Green & Green
- 3 **CHARGE light:** MUST STAY BULB
- 4 **RIGHT Turn:** Brown & Blue w/Black
- 5 **HIGH BEAM:** Brown & White
- 6 **NEUTRAL:** Brown w/Black & Green

Prior to disassembling anything- turn your key on and verify all your lights are working. Replacing a bulb with a led will not fix a bad wire terminal, or any wiring or circuit problems.

Disconnect your Battery Ground terminal. This is always a good practice before messing with wires.

Access the interior of the console, remove the 3 mounting screws for the telltale (warning light cluster). You do not need to disconnect the wiring harness plug. Pull off the black cover to get to the actual white plastic Telltale frame. Looking at it from the rear, the functions and colors are indicated above.

Pull the bulb rubber plug sockets out of the rear of the cluster housing one at a time to avoid mixing up the sockets- especially if your number tags are gone. These sockets are NLA- be careful! Pull the glass bulb straight out of the socket. Save any good bulbs for your Charging socket in the future! These bulbs are also NLA.

LEDs have polarity! The current will only flow in one direction and light the led. Before installing the new led bulb you need to look at the bottom of the bulb socket carefully to determine which side is the 12v+ side. It will be the side of the socket with the colored wire. The ground wires are all Brown. I have marked all the leds in your kit with *a dot or a + on the 12v+ side*.

Insert the new led bulb with the marked + end towards the colored wire in the rubber socket. Plug the rubber socket back into its cylinder mount: be sure to push it all the way in, they have a recess and will snap in.

Replace the 5 indicators with the appropriate colored leds. **DO NOT CHANGE THE CHARGE LIGHT TO LED.** The alternator requires the filament in the incandescent bulb to get its initial 'excitement' current when you start the bike – or your battery will not charge.

After you have all the leds installed, **BEFORE** you reassemble your dash: reconnect the battery and test for function. Turn the key and make sure the leds light up. If one led is not working, you probably mixed up the polarity. Pull the led and turn it 180° then re-test for function.

*** replacing gauge bulbs with led bulbs ****

Also part of the late GS kit are new led bulbs for your Speedometer and Tachometer. These photos are from a '89 Speedometer, but the gauge and fitting are the same for the 1991-95 bikes.

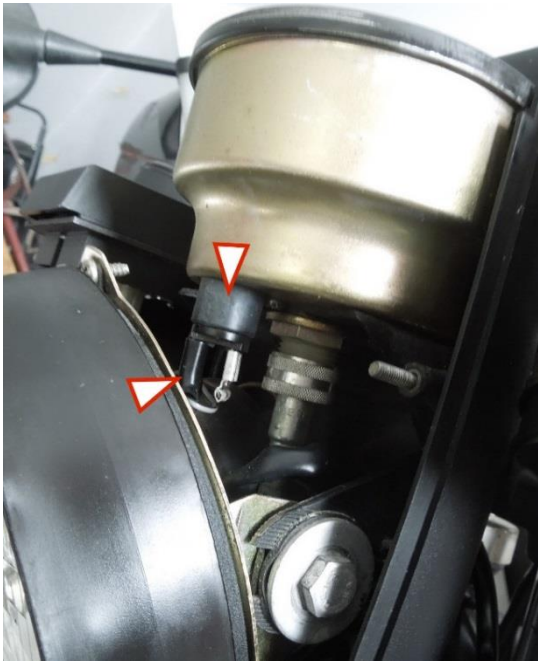
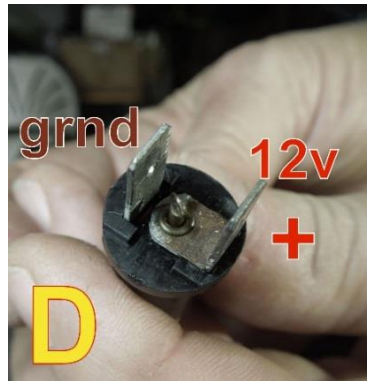


Photo left: speedo light socket. Just pull down to remove.

When installing the new led bulb:

CAUTION!! DO NOT TWIST TOP DECK- it will twist right off! To install the led bulb: Put a small vertical mark (pencil, marker, scratch) on the barrel, under the top rim. Now push the bulb all the way into the socket against the spring. **VERY CAREFULLY** turn the bulb clockwise, 1/4 turn- **WATCHING YOUR MARK**, to make sure the bulb turns and NOT just the top deck with the led chips!!. I actually like to turn the socket, rather than the bulb.



You do not need to disconnect the wires to the socket, but you **DO** need to check that they are connected for the correct polarity! The grey wire is the 12v in and should be connected to the 12v terminal. See photo **D** on the right. The brown is the ground. If you do not have the wire connections correct the led bulb will not light up.