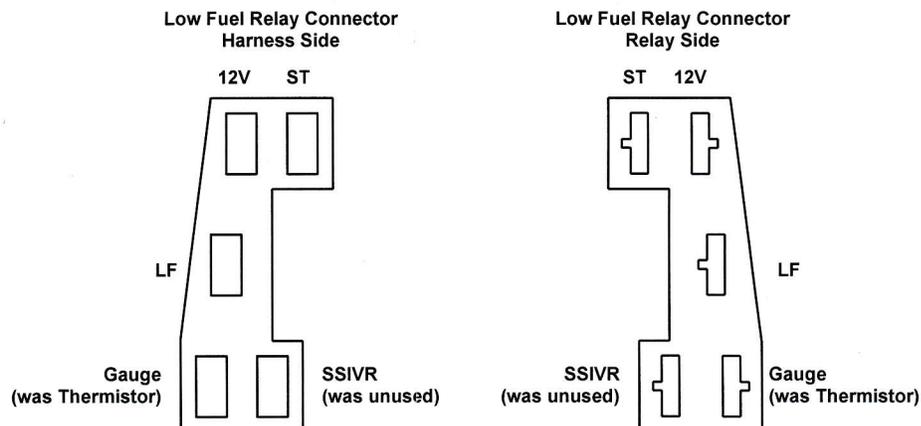
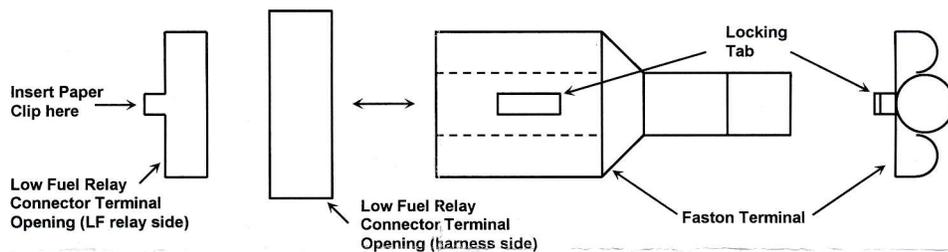


Electronic Low Fuel Indicator (ELFI) and Solid State Instrument Voltage Regulator (SSIVR) installation instructions

1967 and 1968 vehicles:

1. In the vicinity of the fuse block, you will see a bracket with a number of electrical cans mounted to it. The low fuel relay is mounted to this bracket. Unplug the low fuel relay and remove the two mounting screws. The relay will no longer be required.
2. Note: If prior to beginning this installation your low fuel lamp illuminated when the ignition was in the start position, you may skip this step. Test the low fuel lamp by momentarily jumping the 12V terminal to the LF terminal of the low fuel relay connector (Use supplied paper clip or a piece of wire and see LF relay connector illustrations below). Do this test with the ignition in the On (run) position. The low fuel lamp must illuminate under these conditions. If it does not, check the lamp and/or wiring.
3. Remove instrument cluster.
4. Remove Instrument Voltage Regulator (IVR) from the rear of the instrument cluster. The terminals of the instrument cluster wiring harness are Faston style terminals. Carefully pull them from the mating IVR terminals. The IVR is held to the cluster by one #8 stud and hex nut. There is also a ground wire terminal which connects to the cluster housing via the stud. The IVR will no longer be required.
5. Mount the SSIVR in the IVR's place. Reinstall the ground wire terminal under the nut. Position the SSIVR to sit in the same orientation as the IVR did. Note: Interference with one of the speedometer mounting screws may require that the orientation be a little different. Tighten the nut.
6. Plug the instrument cluster wiring harness Faston terminals onto the SSIVR. Temporarily set the instrument cluster aside.
7. Using the supplied paper clip, push the clip wire into the small notch of the low fuel relay connector thermistor terminal opening until it stops (See illustrations below). While holding the paper clip against the stop, pull the thermistor terminal from the connector. Insulate the removed thermistor terminal/wire with electrical tape or heat shrink tubing.



8. With the Faston terminal locking tab facing the low fuel relay connector terminal opening small notch, plug the Faston terminal of the Black wire from the supplied harness into the location in the connector the thermistor wire was just removed from. In the ELFI application, this will now be the Gauge terminal.
9. With the Faston terminal locking tab facing the low fuel relay connector terminal opening small notch, plug the Faston terminal of the Red wire from the supplied harness into the empty spot in the connector (to the right and next to the Gauge terminal). This is the SSIVR terminal of the ELFI.
10. Plug the low fuel relay connector onto the ELFI board but do not mount it, the wiring slack will be needed for making instrument cluster connections. Provide a temporary ground connection from the low fuel relay mounting (or other grounded metal) to one of the mounting holes of the ELFI. This must be done in order for the ELFI to work properly in the tests that follow. Route the end of the supplied harness so that it protrudes from the instrument cluster-mounting opening.
11. Loosen the fuel gauge terminal nut with the Black with Green stripe wire connected to it. Slip the Red wire from the supplied harness underneath the nut. Tighten the nut.
12. Reconnect the instrument cluster to the vehicle wiring harness.
13. Turn the ignition switch to the On (run) position. Test the ELFI low fuel function by momentarily jumping the Black wire from the supplied harness (currently unconnected) to the fuel gauge terminal with the Black with Green stripe wire connected to it (and which the Red wire was just connected to). The low fuel lamp should illuminate while the wire is connected. Momentarily touch the Black wire of the supplied harness to the instrument cluster housing. The low fuel lamp should be extinguished while the wire is connected.
14. Loosen the fuel gauge terminal nut with the Yellow with Black stripe wire connected to it. Slip the Black wire from the supplied harness underneath the nut. Tighten the nut.
15. Reinstall the instrument cluster. Remove the temporary ground wire to the ELFI. Mount the ELFI in the low fuel relay mounting location in the same way the low fuel relay was mounted.
16. Test the ELFI lamp prove out function by starting the car. The low fuel lamp should illuminate while the ignition is in the Start position. For low fuel function, the low fuel lamp should come on and stay on when the fuel gauge reading reaches the red area on the scale. This also indicates approximately 4.5 gallons of fuel remaining in the tank. The lamp will not extinguish until approximately 1 gallon of fuel has been replaced.

Note: If the ELFI ever needs to be removed/unplugged, first remove the two ELFI mounting screws and then carefully pull the ELFI from the connector by grasping the board edges. ***Do not*** use a screwdriver or any tool between the ELFI and its mating connector to facilitate removal. There are surface mounted electronic components on the ELFI that are easily damaged. The printed circuit board may be damaged if the connector is unplugged while the ELFI is mounted because of the force required to remove the ELFI from the connector Faston pins.