

# INSTALLATION INSTRUCTIONS

## 102040 GROUND STRETCHER KIT 1986-1987 GN/Ttype

Adding this kit to your factory harness provides a better and more secure ground point for all of the sensor and devices related to engine control. Removing grounds from the very poor factory location and relocating them to the junction stud will minimize or eliminate ground related electrical "gremlins" and keep the engine running properly under adverse conditions.

The ground ring terminals are located directly on the rear of the passenger side cylinder head, right up against the firewall. It is difficult to get to the bolts but can be done from under the vehicle. There are a total of seven (7) ground wires in the harness, divided up between four ring terminals. They must be removed from the bolts and pulled upwards to the top of the engine to install this kit. It is easier to do this if the engine harness un-bolted from the engine and firewall, and the oval conduit (wrapped around the heater box) is removed from the harness.

When you cut off the ring terminals and expose the stripped wire, you may find the wire to be tarnished (blackened) under the insulation due to aging. You must scrape the wire with a small knife until the bare shiny copper is revealed. This is required to provide a proper solder connection after the wire is crimped into the barrel crimps included in this kit. When crimping the new barrel crimps, be sure to use the piercing style crimp tool. Use a 100 watt solder gun and rosin flux solder to secure the new crimped connections. After the connections have cooled, slide the pre-installed heatshrink tubing over the barrel crimps and shrink with a heat gun. **DO NOT USE A FLAME** since it is possible that gasoline vapors are present.

Install the ground stud using two sheet metal screws included in this kit. All ground rings must be firmly affixed to this post as it is a central ground connection. Use the illustration below for installation details.  
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