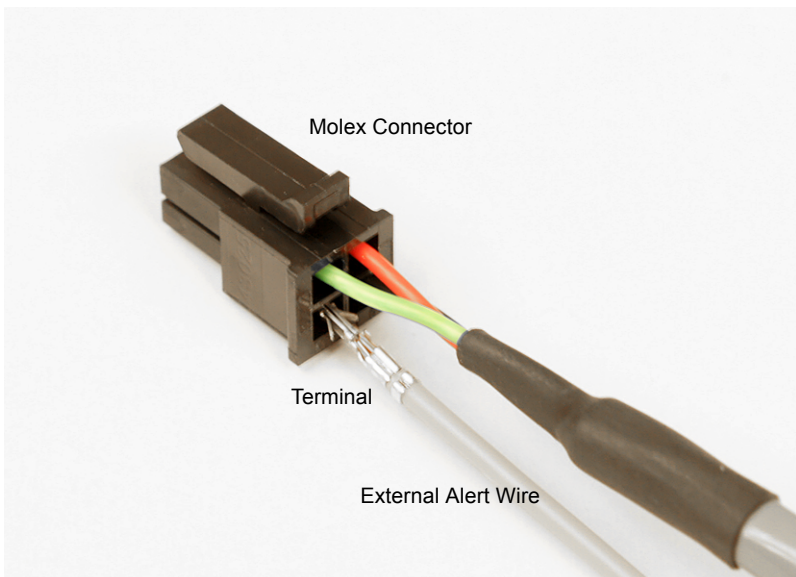


# EA1

## Theory of Operation

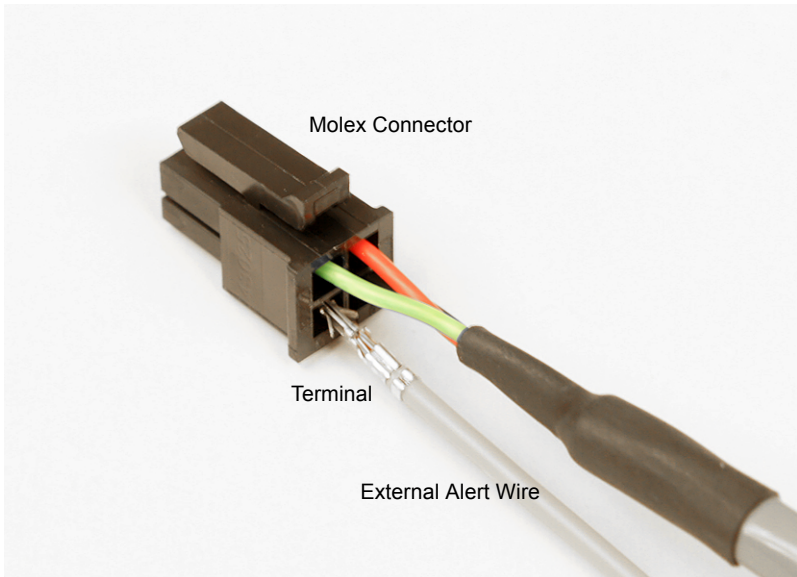
The EA1 external alert wiring kit is designed to be installed into the Molex connector of the D3M4A or D2M4C connection cable and connected to the low oil pressure indicator in an instrument cluster or an oil pressure switch wire. On modern vehicles, the oil pressure switch connects the signal wire to ground when the oil pressure is below a specified set point. The DGauge can emulate this function using oil pressure readings from an actual sensor and provide a fully adjustable set point. In addition to the adjustable oil pressure alert, the DGauge also incorporates an oil temperature alert into the same external output. This alert also has a fully adjustable set point. When either set point (or both) is exceeded, the alert is active and will ground the output pins on both Input 1 and Input 2 connectors. This essentially functions the same as the low oil pressure switch. The external alert output pins are driven by a transistor and care must be taken to prevent damage to it. NEVER connect an inductive load to it, such as a relay or speaker. NEVER exceed 150mA of current through it.



# EA1

## Installation

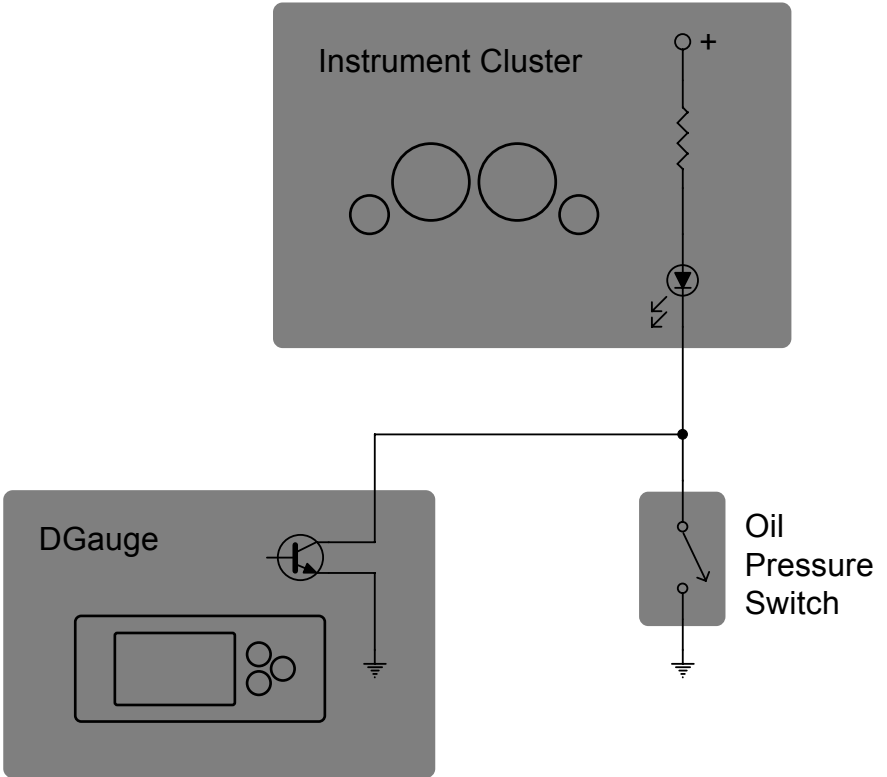
Insert the terminal into the Molex connector. The top side of the terminal is the side with the actual crimp and should point up toward the top of the connector, which is where the latch is located. The terminal is to be inserted into the lower left cavity of the Molex connector, for both the D3M4A and the D2M4C connection cable. Be sure to fully insert the terminal.



Connect the external alert wire to the vehicle wiring. You may need to consult a wiring diagram to determine the best point to tap into the oil indicator wire. It is not necessary to cut the vehicle wiring. You can use the tap splice to connect the external alert wire, resulting in a parallel configuration.

EA1

Diagram



EA1