



# Twin Tec Installation Instructions for Ignition Power Relay Kit

**CAUTION: CAREFULLY READ INSTRUCTIONS BEFORE PROCEEDING.  
NOT LEGAL FOR USE OR SALE ON POLLUTION CONTROLLED VEHICLES.**

## OVERVIEW

Some motorcycles with high compression or large displacement engines and Twin Tec Model 1005, 1005S, 1006, or 1007 single fire installations may exhibit difficult starting. The starter motor draws more current than the electrical system was originally designed for. The voltage at the battery terminals may drop to around 6 volts during cranking. The single fire coil also draws more current and an additional 1-2 volt drop may occur in the long length of wire between the battery, engine stop/run switch, and the coil. Under these conditions the voltage at the coil may be so low that the spark energy is insufficient to fire the engine. The ignition power relay solves the problem by supplying full battery voltage direct to the coil.

Our kit includes a high quality relay, wire, and all required terminals. If you don't want to buy our kit, you can use a standard 12 volt automotive relay available at most parts stores. Use 1/4" female push-on

terminals for relay connections and 16 AWG stranded copper wire. Use a proper crimping tool.

## INSTALLATION

1. Turn off the ignition switch and disconnect the battery ground cable before proceeding.
2. Identify the wire from engine stop/run switch to the Coil+ terminal (usually white). Disconnect this wire from the coil and connect it to relay terminal 86 (marked on bottom of relay).
3. Run a length of 16 AWG wire from the battery +12V terminal to relay terminal 87.
4. Run a length of 16 AWG wire from relay terminal 30 to the Coil+ terminal.
5. Run a short length of wire from relay terminal 85 to ground.
6. Reconnect the battery ground cable.

