

# POWER RELAY INSTALLATION INSTRUCTIONS

# Maximizing Ignition Energy with a PerTronix Power Relay

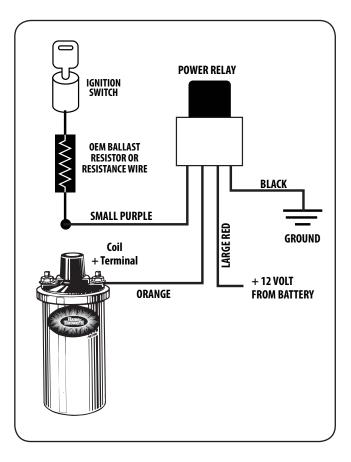
Ignitor II and Ignitor III ignition systems require a full +12V power connection between the ignition switch and the positive coil terminal. Most AMC, Chrysler and Ford vehicles are equipped with OE resistance wires or ballast resistors. All pre 1974 (Non HEI) GM vehicles are equipped with OE resistance wire.

To get the full benefit of our high performance ignition systems the primary resistance needs to be eliminated or bypassed. In most cases, adding a PerTronix Ignition Power Relay may be easier than cutting into the vehicles wiring harness and replacing wires.



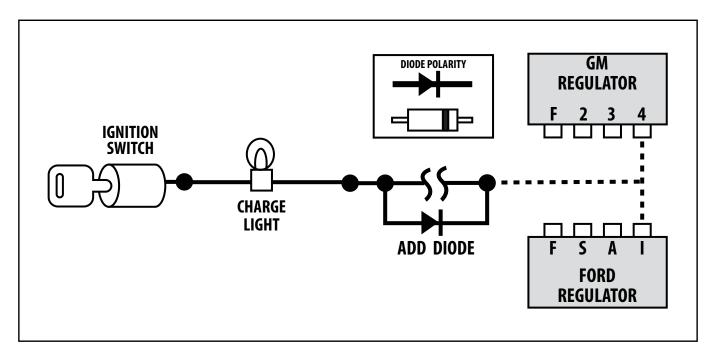
## PARTS INCLUDED WITH POWER RELAY KIT

- 30 Amp auto relay
- Relay socket and harness
- 3 Amp 400 volt diode
- Self tapping sheet metal screw
- Male and female connectors
- Battery ring terminal
- Coil ring terminal
- 1. Determine the best location to mount the relay socket and harness. Common mounting locations include the fire wall or inner fenderwell. Make sure the location you choose enables the wires to be routed clear of headers, exhaust manifolds, fan blades and belts. Also make sure each wire will reach its destination.
- 2. Drill a small pilot hole in the desired location and use the provided sheet metal screw to mount the socket.
- 3. Attach the short black ground wire to a good clean ground.
- 4. Disconnect the ignition switch wire from the coil positive terminal. Use the provided male and female tab connectors to attach the ignition switch wire directly to the small purple wire from the power relay.
- 5. Run the orange wire from the power relay to the coil positive terminal. Determine the proper wire length and cut the wire to size. Attach the provided ring terminal. Attach the orange wire to the positive coil terminal.
- 6. Run the large red wire to the battery positive terminal. Determine the proper length and cut the wire to size. Attach the large ring terminal. Fasten the large red wire to the battery positive post.
- 7. Insert the relay into the relay socket.
- 8. Test for proper operation of the circuit by starting the engine and then turning the ignition key off. If engine continues to run after the key is turned off, remove the relay to stop the engine and proceed to step 9. If the engine stops running when key is turned off, your installation of the ignition power relay is complete.



#### ISOLATION DIODE INSTALLATION

- 9. Most pre 1974 GM vehicles equipped with Delcotron alternators with external regulator, and most Ford vehicles with Autolite / Motorcraft alternators with external regulator, will require isolation diode installation. The isolation diode prevents current from the regulator flowing back to the ignition power relay when the key is turned off.
- 10. Locate the terminal on the voltage regulator that is connected to charge indicator light. This is terminal '1' on most Ford regulators and terminal '4' on most GM regulators. A top view of the regulator is shown in diagram below to help with terminal identification. Break the wire going to this terminal and solder the diode to the wire ends. Observe diode polarity indicated by a "band" on the diode. Wrap diode and wires with electrical tape. Make sure diode or bare wires cannot touch any metal surface.
- 11. Verify proper operation of charging circuit and ignition system. If charge indicator light does not light up when key is turned on before engine is started, diode was probably installed backwards. Correct this error, then try again.



### WARRANTY INFORMATION

#### **OUR RETURNS POLICY**

The returns policy of Pertronix Australia is as follows: In brief, all returns must be authorised prior to forwarding via prepaid freight, with your proof of purchase. (This can be requested via email: pertronix@proquip.com.au). The information you give us when requesting a Return Authorisation will aid us in our analysis of the returned item during the testing process. Products will not be credited or exchanged until testing is complete. The Warranty allows for the repair or replacement of faulty components only (purchased from Pertronix Australia or an Authorised Retailer), and does not offer "money back".



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