Wiring Fuel Pump Relay for 6V (+) Ground Cars



Bosch SPDT
6V 30 amp Relay
0332204001
Used as dimmer relay
In 1950 to 1966 VW
Also listed as:
Merced 0035340245
Porsche PCG61510100
John Deere AR91168

The Bosch Relay is a high quality metal cased relay, but it is fairly expensive, a cheaper alternative is the plastic style such as:
Durakool DG85B-8011-96-1006-M1
TE Connectivity / Potter & Brumfield 1432873-1



Instructions:

Add a 10 ga. wire from a power source to pin #30 on the relay. This will be the power to the Fuel Pump.

Connect a 10 ga. Wire from relay pin #87 to the Fuel Pump negative lead. Connect the Fuel Pump (+) lead to a good ground. Could use the mounting bracket screw/bolt if it is a good, clean ground.

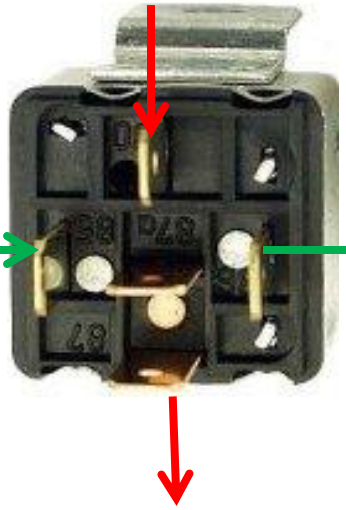
Add a 14 ga. wire from a switched power source (toggle switch, ignition switch, etc.) and connect it to pin #85. This is the relay control.

Add a 14 ga. Wire from pin #86 to a good ground. This could be to the relay mounting screw/bolt if it is a good clean ground.

Notes: a 30 amp fuse can be used between power source and Relay

I would add a cutoff like a modern impact sensor. Wire it between pin #87 and the fuel pump

10 ga. Wire from Power Source such as Battery, hot side of Starter Relay, main power connection doing into Circuit Breakers, Etc.



14 ga wire from a switched power source.

14 ga wire to a good ground

10 ga wire to (-) Fuel Pump lean.

Wiring Fuel Pump Relay for 6V (+) Ground Cars – Relay Connections

Note: Polarity may or may not matter, some relays have a diode between pins 86 & 85. Therefore the connects need to be reversed from a negative ground car. To account for a diode, use the connections shown below.

Pin 87 is the Power Out Terminal to the Fuel Pump.
Pin 87a (not used)

Pin 86 is normally the Trigger terminal, but with a diode it should be used as the ground connection



Pin 85 is normally the ground Terminal, but with a diode it should be used as the Trigger Terminal and connects to switched power source.

Pin 30 is the Power In Terminal and connects to power source.