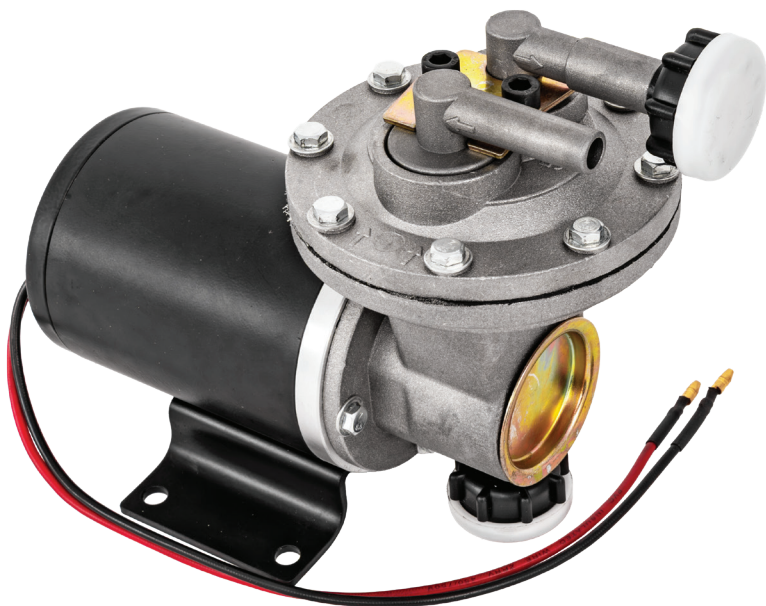


# **Installation Guide**

**Electric Vacuum Pump Kit  
18 in. to 22 in. Hg**

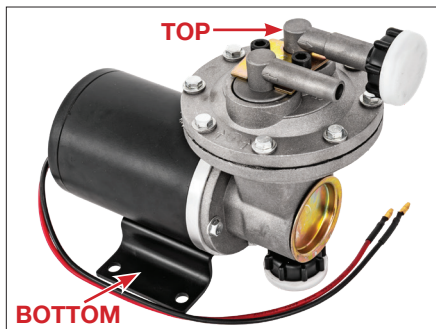
555-63016



## Read Before Use

Thank you for your purchase of this JEGS Electric Vacuum Pump. Please be sure to read this installation guide to ensure proper placement and wiring.

Correct orientation is critical for the function and longevity of this product. The pump must be installed with the ports to the top, and the mounting plate at the bottom. Failure to properly mount the pump will impede oil circulation and lead to premature wear. (See image below.)



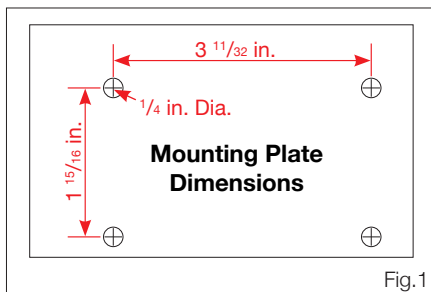
Before installation verify kit components.

If you have any issues, or if this vacuum pump is damaged, please contact customer service at: 1.800.345.4545.

**Return Information:** *Once the vacuum pump has been modified, it will not be accepted for return.*

## Installation

1. First install the pump in a suitable location, using the rubber insulators to mount to the vehicle. See Figure 1.



2. Next, mount the vacuum switch in a suitable location, making sure that the switch is grounded to vehicle.

### WARNING

**IF THE SWITCH BODY IS NOT PROPERLY GROUNDED, THE ELECTRICAL CIRCUIT WILL NOT WORK PROPERLY!**

3. Install the vacuum hoses as shown in Figure 2 on next page.
  - NOTE: Switch is unidirectional. It will still function if the vacuum lines are reversed.
  - Screw filter onto Pump Exhaust.
4. Begin electrical wiring by mounting the relay in a suitable location.
  - NOTE: Relay mounting tab does not have to be grounded.

# Installation

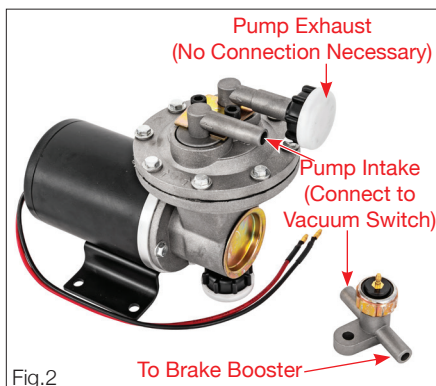


Fig.2

## CAUTION

WHEN INSTALLING THE RELAY AND VACUUM SWITCH, MAKE SURE THAT THE VACUUM SWITCH (THE SWITCH WITH THE RUBBER HOSES ATTACHED TO IT) IS NOT WIRED TO THE POSITIVE (+) SIDE. IF THE VACUUM SWITCH IS WIRED INCORRECTLY, THE SWITCH WILL BURN OUT AND NOT WORK!

5. Next, wire the fuse to a positive (+) ignition switched power source.
  - Positive (+) connection must be a switched source or pump will run with key off!
  - The circuit used for connection must have a 10 amp fuse!
6. A detailed diagram of relay and proper connections. Proper connections to relay explained in Figure 3.

- (1) To top of vacuum switch
- (2) From (+) fuse, and to red (+) motor
- (3) Vehicle ground, battery (-)
- (5) To black (-) motor

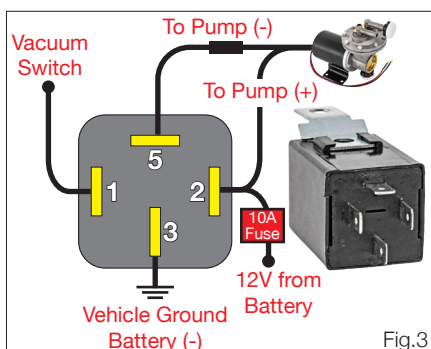


Fig.3

7. The female end connector will connect to terminal #2 on the relay, one wire to the positive (+) switched power source (to fuse), and the last wire to the positive (+) pump motor side. See Figure 4.

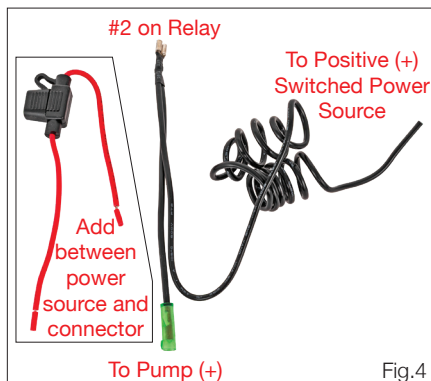


Fig.4

# Installation

- 8. Connect female terminal connector to relay terminal #5, and the female bullet nose connector to the pump motor black (-) side.
- 9. Connect female terminal to relay terminal #1 and Female Bullet to top of Vacuum Switch.
- 10. Lastly, Connect female Terminal to Relay Terminal #3 and the Ring Terminal to Vehicle Ground
- 11. At this point you have completed installation of the vacuum pump. Before you start the vehicle, review the wiring diagram, Figure 5, to make sure all of your connections are correct:

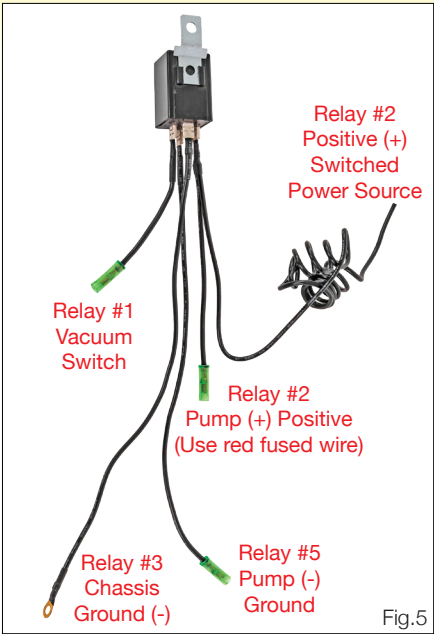


Fig.5

# Troubleshooting

| FAULT                  | POSSIBLE CAUSE                        | SOLUTION                   |
|------------------------|---------------------------------------|----------------------------|
| Pump Doesn't Work      | Blown Fuse                            | Replace Fuse               |
|                        | Switch Not Grounded                   | Check Wiring & Ground      |
|                        | Vacuum Switch Connector Not Connected | Check Top of Vacuum Switch |
| Vacuum Pump Won't Stop | Vacuum Switch Failure                 | Replace Vacuum Switch      |
|                        | Relay Failure                         | Replay Relay               |