

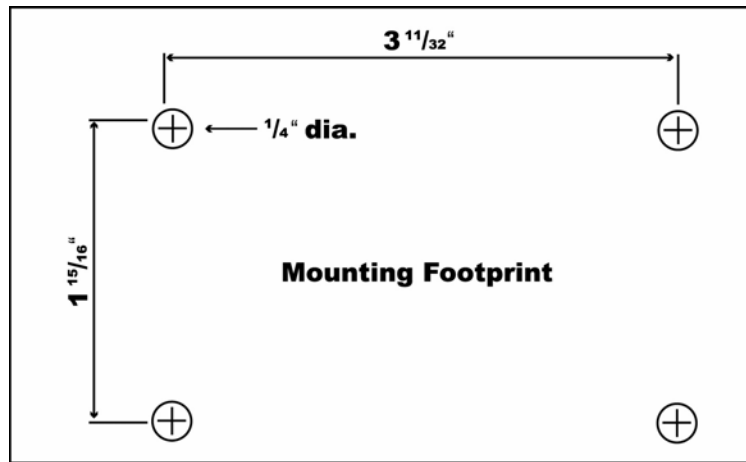
#5500 Electric Vacuum Pump Kit

Thank you for choosing COMP Cams® products; we are proud to be your manufacturer of choice. Please read this instruction sheet carefully before beginning installation, and also take a moment to review the included limited warranty information.



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





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



If switch body is not properly grounded, the electrical circuit will not work properly!



3. Run vacuum hoses as shown below.

NOTE: Switch is unidirectional. (Switch will still function if vacuum lines are reversed.)



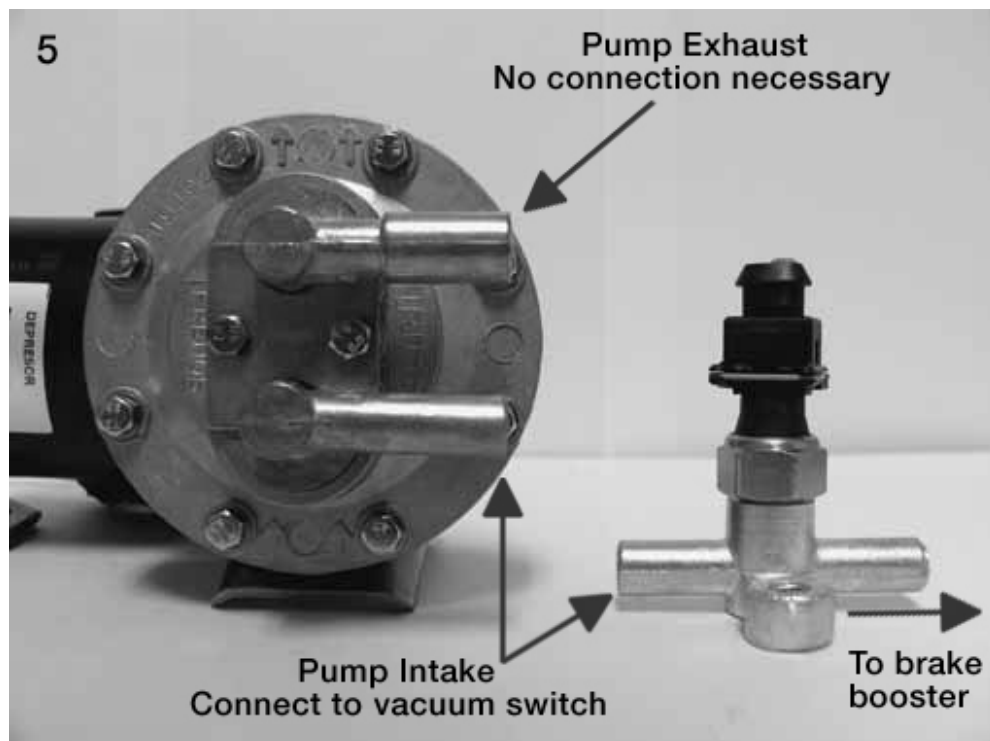
4. Begin electrical wiring by mounting the relay in a suitable location.

Note: Relay mounting tab does not have to be grounded!

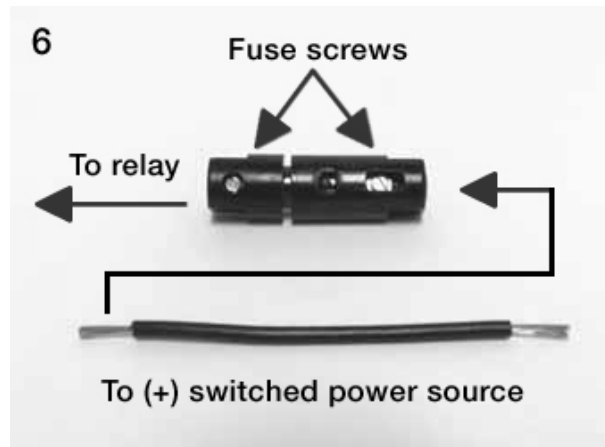


Caution: When installing relay and vacuum switch, make sure that the vacuum switch (the switch with the rubber hoses attached to it) is not wired to the positive (+) side. If vacuum switch is wired incorrectly, the switch will burn out and will not work!

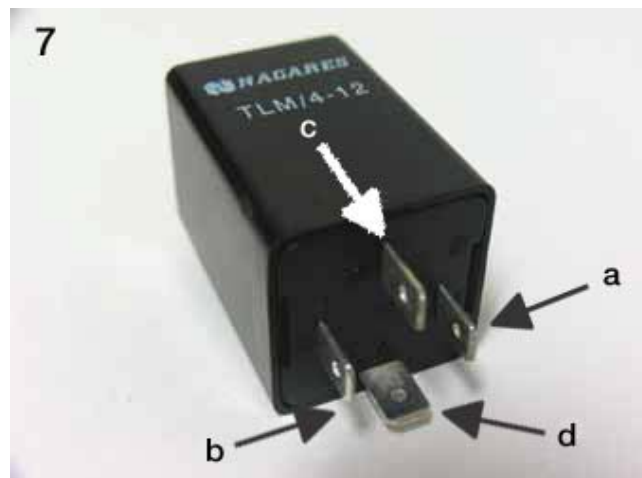
Detailed Diagram of Pump & Vacuum Switch



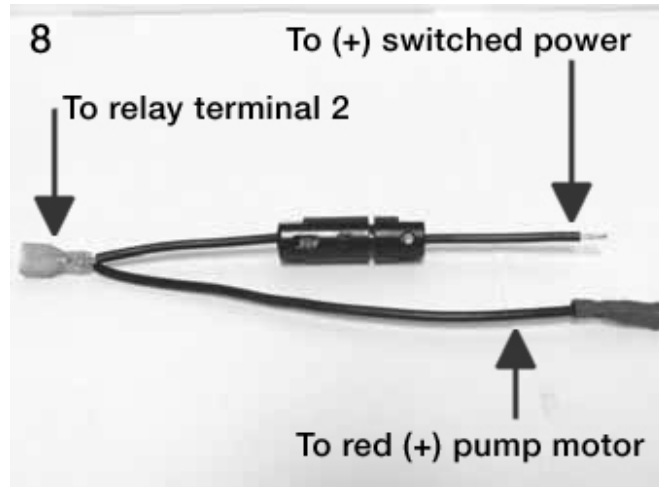
5. Next, wire the fuse to a positive (+) ignition switched power source.
 - a. Positive (+) connection must be switched source or pump will run with key off!
 - b. The circuit used for connection must have an 8 to 10 amp fuse!
 - c. Make sure to tighten down fuse screws!



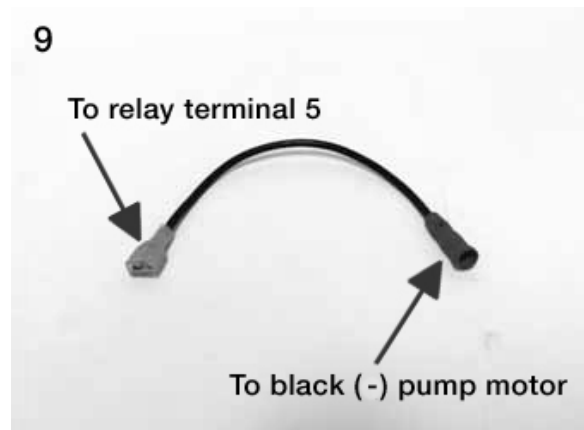
6. Detailed diagram of relay & proper connections: (Terminals are labeled on actual relay!) Proper connections to relay are explained in the following steps.
 - a. To top of vacuum switch
 - b. From (+) fuse, and to red (+) motor
 - c. Vehicle ground, battery (-)
 - d. To black (-) motor



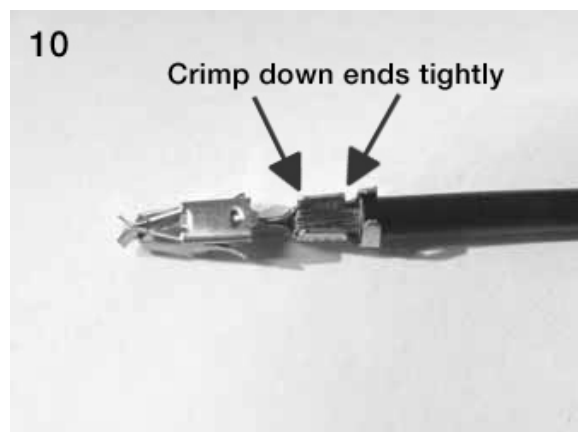
7. Splice two wires together and connect with a female end connector as shown below. The female end connector will connect to terminal 2 on the relay, one wire to the positive (+) switched power source (to fuse), and the last wire to the positive (+) pump motor side.



8. Now make one length of wire with a female end connector on one end and a female bullet nose connector on the other. Connect female terminal connector to relay terminal 5 and the female bullet nose connector to the pump motor black (-) side.



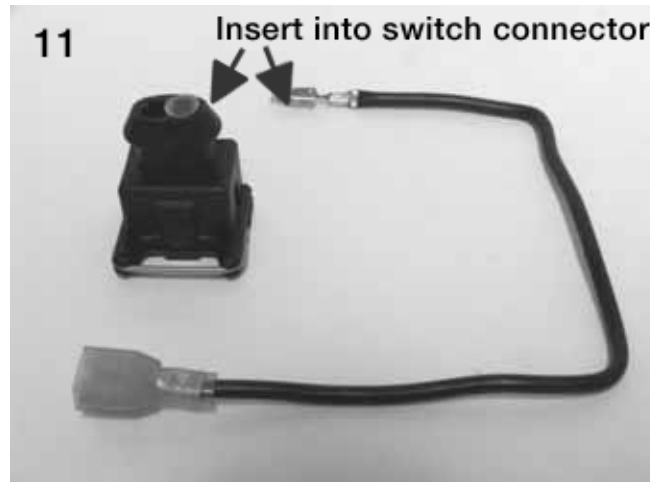
9. Now install vacuum switch clip connector onto the end of a length of wire. Make sure to crimp down ends!



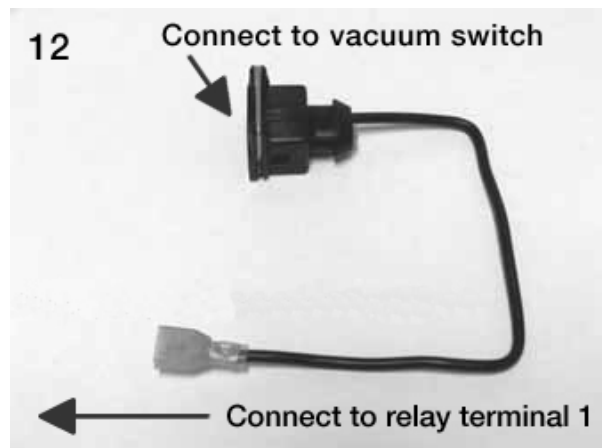
10. Next, install a female end connector to the end of the wire, and insert the vacuum switch clip connector into the vacuum switch connector as shown below.



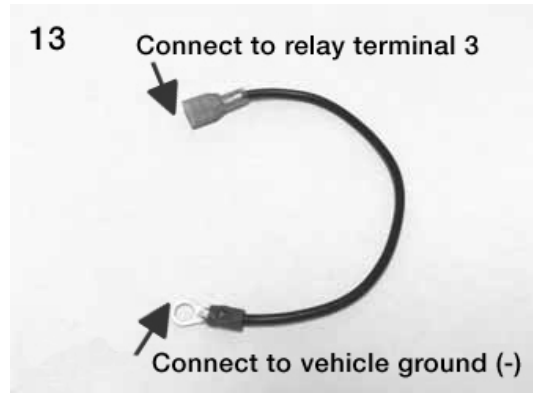
Note: connector pin only inserts into a vacuum switch connector one way! Do not force pin into body! Make sure that the connector lines up with pin on vacuum switch when connecting!



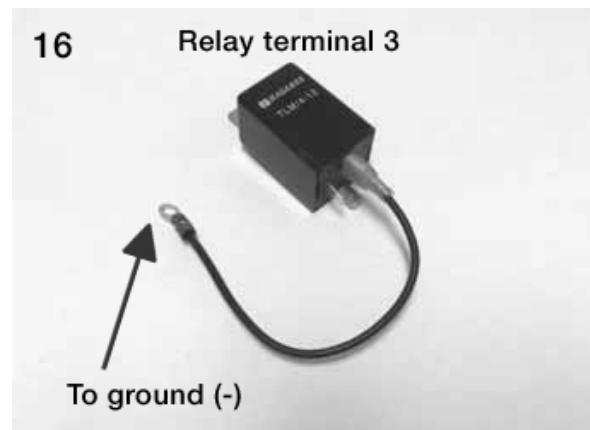
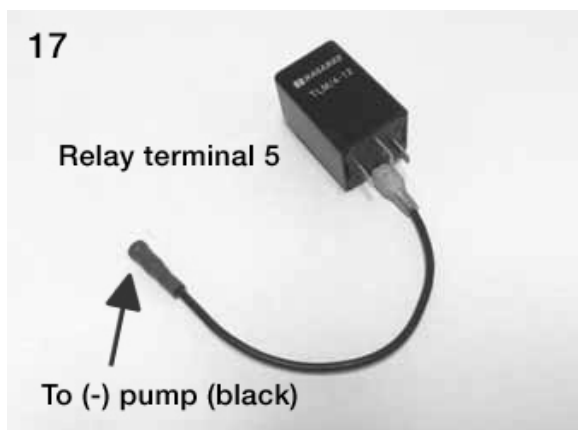
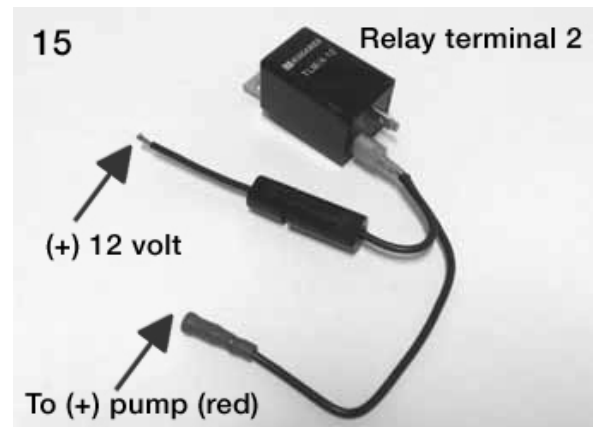
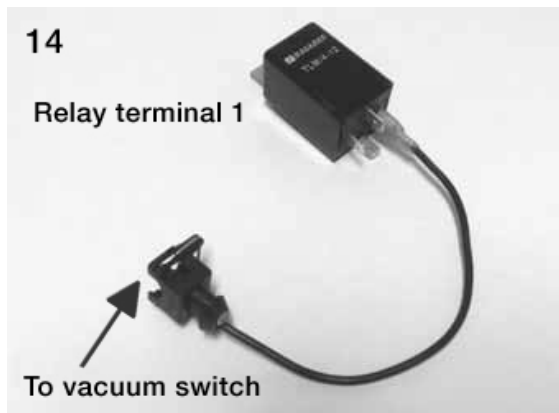
11. Finished assembly should look like the picture below. Now connect black vacuum switch connector to top of vacuum switch, and connect female terminal to relay terminal 1.



12. Last, make one wire as shown in the picture below. One end will have a female end connector connected to relay terminal 3, and the other end will have a ring terminal that will attach to a good ground point on the vehicle.



13. Congratulations, you have completed installation of the vacuum pump! Before you start the vehicle, review the simplified wiring diagram pictures below to make sure all of your connections are correct:



14. After confirming all connections are correct, you are ready to test run the system. Turn IGN to ON or ACC position; the pump should then kick on and will run up to 18-22 inches before the regulator shuts the pump down. Provided the pump cycles accordingly, you are ready for normal operation.

Troubleshooting:

FAULT	POSSIBLE CAUSE	SOLUTION
Pump doesn't work	Blown fuse Switch cannot be grounded Vacuum switch connector not connected	Replace a fuse Check wiring & ground Check top of vacuum switch
Vacuum pump won't stop	Vacuum switch failure Relay failure	Replace vacuum switch Replace relay

Limited Warranty

Competition Cams, Inc. warrants that all of its products are free from defects in material and workmanship, and against excessive wear for a period of (1) one year from the date of purchase. This **limited warranty** shall cover the original purchaser.

Competition Cams, Inc.'s obligation under this warranty is limited to the repair or replacement of its product. To make a warranty claim, the part must be returned within (1) one year of purchase to the address listed below, freight prepaid. Items covered under warranty will be returned to you freight collect.

It is the responsibility of the installer to ensure that all of the components are correct before installation. We assume no liability for any errors made in tolerances, component selection, or installation.

There is absolutely no warranty on the following:

- A) Any parts used in racing applications;**
- B) Any product that has been physically altered, improperly installed or maintained;**
- C) Any product used in improper applications, abused, or not used in conjunction with the proper parts.**

There are no implied warranties of merchantability or fitness for a particular purpose. There are no warranties, which extend beyond the description of the face hereof. Competition Cams, Inc. will not be responsible for incidental and consequential damages, property damage or personal injury damages to the extent permitted by law. Where required by law, implied warranties or merchantability and fitness are limited for a term of (1) one year from the date of original purchase.

This warranty gives you specific legal rights and you may also have other legal rights, which vary from state to state.



COMP Cams®
3406 Democrat Rd.
Memphis, TN 38118
Phone: (901) 795-2400 Fax: (901) 366-1807
www.compcams.com

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