



#82009 Remote Bottle Valve Opener

Thank you for choosing ZEX™ 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.

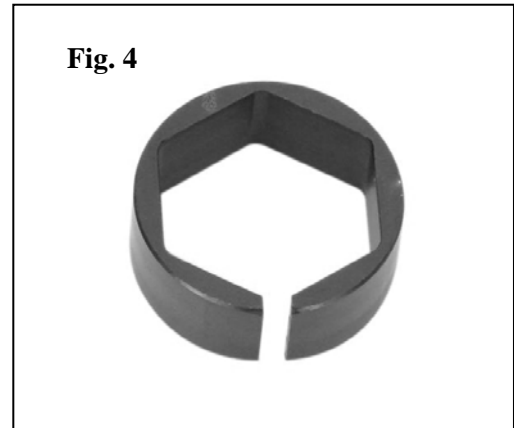


Installation Instructions

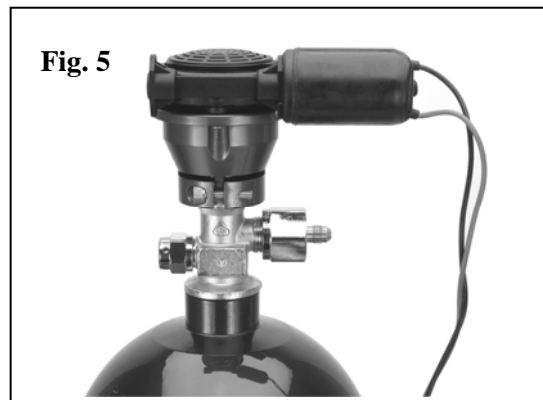
1. Remove bottle from the vehicle (Fig. 1).
2. Using a socket, remove the nut holding the hand wheel to the top of the nitrous bottle valve (Fig. 2).



3. Remove the hand wheel and place it in your glove box or toolbox. While the drive gear that is used in place of the hand-wheel is normally sufficient for manually opening and closing the valve, you may want to use the hand wheel when you take the bottle in for refills.
4. Two different drive gears are included with the kit, install the gear over the square brass stem that properly fits the bottle valve you have (Fig. 3). Some valves may also require the use of the included hex collar for proper fitment (Fig. 4). Reinstall and tighten the nut onto the stem.



5. Slip the opener over the bottle valve and drive gear, making sure the drive gear properly meshes with the motor gear and the unit is aligned straight on the valve (Fig. 5).

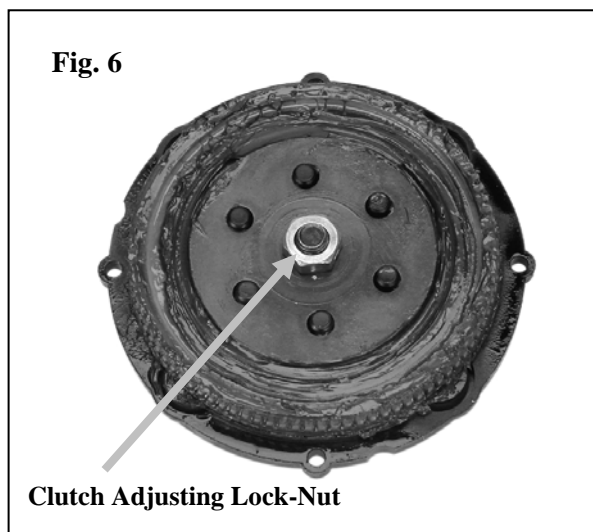


6. Tighten the opener's main clamping screw to securely lock the opener in place.
7. The ZEX™ Remote Bottle Valve Opener motor and switch assembly come pre-wired for easy installation. First, connect the **RED** wire from the toggle switch harness to +12volts; preferably at the battery positive terminal. Then, connect the **BLACK** wire from the switch harness to a good chassis ground.
8. Take the **RED** wire from the opener and connect it to **POST #5** on the toggle switch. Take the **BLACK** wire from the opener and connect it to **POST #2** on the toggle switch.
9. Once all the wiring connections have been made, find a suitable location for the opener switch. Ensure that it is within easy reach while seated in the driver's seat. Drill a 15/32 in. hole and tighten the switch into place.

10. Reinstall your nitrous bottle in the vehicle and reconnect the nitrous feed line. By toggling the control switch, you can open or close the bottle valve. To open the nitrous bottle valve, hold the switch open for at least 2 seconds, likewise, if you want to close the nitrous bottle valve, hold the control switch in the opposite position for at least 2 seconds. Once the valve opens or closes all the way, the motor will still turn as long as you hold the switch down, but a clutch that's attached to the motor will slip when these endpoints are reached.
11. Carefully check the operation of the opener to ensure that the bottle valve is opening and closing properly in both directions.
12. Read the **Additional Installation and Maintenance Information** section at the end of these instructions.

Additional Installation and Maintenance Information

1. The bottle opener motor assembly is equipped with an adjustable clutch mechanism that has been factory pre-set for correct operation. With normal use, over a period of time, some adjustment may be needed. If the nitrous bottle valve starts to “stick”, either open or closed, it often means there is too much force being applied by the clutch mechanism since the grease used for lubrication spreads out and friction increases.
2. To adjust the opener motor's clutch, start by removing the motor assembly from the aluminum housing. Remove the four screws that hold the plastic motor housing together. Remove the vented cover and observe the clutch mechanism with the lock-nut in the center (Fig. 6). Using a Phillips screwdriver to hold the clutch mechanism screw from turning, loosen the lock-nut counter-clockwise ½ turn and then reassemble; check for proper operation. While normally an opener needs to be loosened up for it to return to proper operation, you may in your circumstance need to tighten it instead. Either way, repeat the loosening or tightening procedure until normal opener operation returns.



Limited Warranty

ZEX™ 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.

ZEX'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. ZEX™ 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.