



AIR-ZENITH OB2 COMPRESSOR OWNER'S MANUAL

Congratulations! Thank you for purchasing the world's fastest 12 volt air compressor by AIR-ZENITH. This installation manual will help guide you through the proper and safe installation of your compressor to ensure years of reliable service.

PRODUCT SPECIFICATIONS

- Voltage: 12 Volt DC
- Motor: 3/4 HP Permanent Magnetic Motor
- Max. Working Pressure: 200 PSI
- Max. Amp Draw: 35A
- Duty Cycle: 100% (at 200PSI at 72°F)
- Air Flow: 4.25 CFM @ 10 PSI
2.47 CFM @ 100 PSI
1.46 CFM @ 200 PSI
- Max. Ambient Air Temp.: 158°F
- Min. Ambient Start Temp: -40°F
- Thermal Protection: Auto Reset



STANDARD FEATURES

- Oil-Free Design, Non-lube Piston & Cylinder.
- Patented Interchangeable Piston Technology.
- Long-Life, PTFE Compound Piston Ring.
- Balanced Connecting Rod, Low Vibration, Low Sound Levels.
- Direct Driven Motor with Automatic Reset Thermal Overload Protection.
- Waterproof Cooling Fan.
- 1/2-Inch DOT Certified PTFE-Lined Stainless Steel Braided Air Hose.
- 1/2-NPT Air Hose to Air Tank Fitting.
- Serviceable Heavy Duty Check Valve.
- Remote Mountable Air Filter.
- 80A Continuous Duty Power Relay with Prewired Relay Socket.
- Integrated Rotatable Mounting Brackets with Vibration Isolators.
- Nylock Self-Locking Mounting Hardware (nuts, bolts, locking washers).

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1. PRE-INSTALLATION NOTES

- Disconnect your vehicle's battery before installation, wear proper eye and hand protection during installation.
- **Removing or altering factory pre-installed power relay wiring void warranty.**
- Make sure that your compressor setup is properly fused. Install a 70A or larger fuse as close to the (+) battery positive post as possible. Note: High quality (70A or larger) ANL-fuse and fuse holder is highly recommended.
- Mount compressor in area with good air flow and away from excessive water and dirt conditions.

2. INSTALLATION GUIDELINES

- To maximize air compressor performance mount compressor as close to the (+) power source as possible.
- This compressor is moisture & splash resistant, but not water proof! Do not mount compressor in locations where compressor is likely to come in contact with water.
- This compressor comes with pre-installed 80A relay. Connect your battery positive power wire (+) to the bigger terminal on the relay. **Run minimum 6-AWG wires. If wire length runs more than 6 feet please use 4-AWG**
- Install a 200 PSI (or under 200 PSI) pressure switch on the air tank (Maximum 5-gallon air tank per OB2 compressor). Connect one pressure switch wire to (+) Key Ignition positive power wire. Connect the other pressure switch wire to the smaller terminal on the relay. (See Fig. 1 for standard wiring diagram).
- This compressor comes with a serviceable heavy duty check valve. Open and clean check valve at least once a year to prolong air compressor life.
- Do not remove factory pre-installed check valve! Connect supplied braided air hose to check valve (**thread seal tape is not required on the check valve thread**), and then connect air hose to air tank with supplied ½-NPT air tank fitting (**thread seal tape is required on the ½-NPT air tank fitting thread**).
- Connect compressor ground wire to vehicle chassis. You will want a place clear of paint and debris; you can lightly sand away body paint if needed. Drill a mounting hole for your fastener. Attach your compressor ground wire and apply a light coat of grease or paint to keep the connection clean. Note: If possible, connect compressor ground wire to your battery negative post for maximum performance.

3. OPERATION GUIDELINES

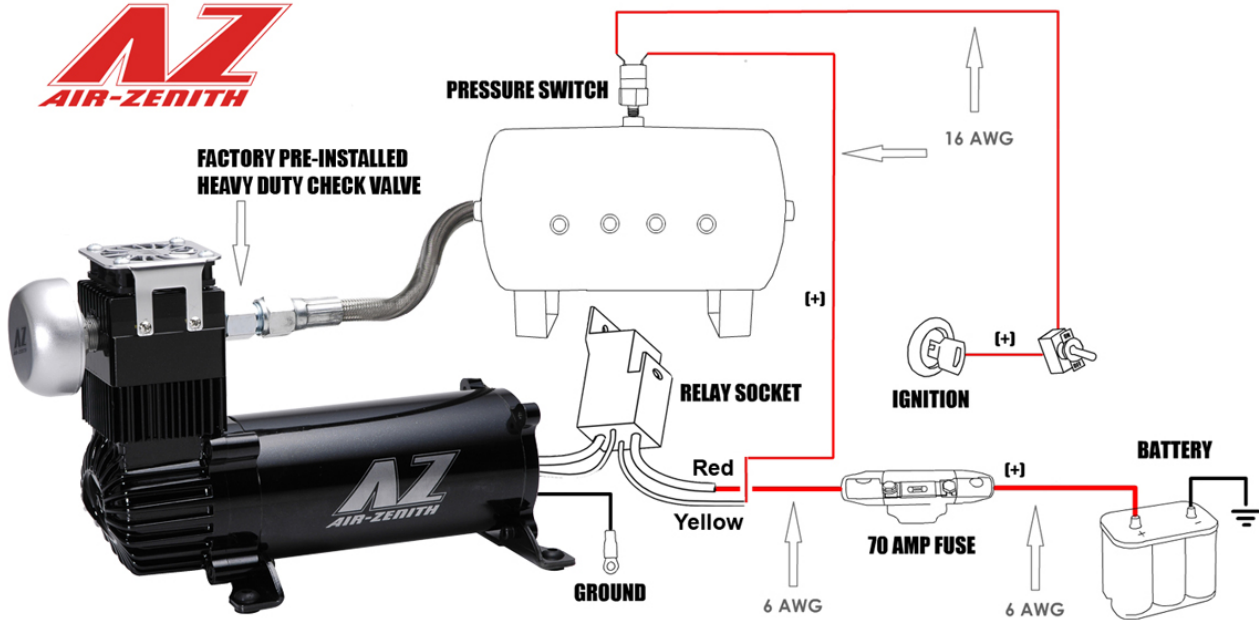
- To prevent unwanted discharge of your vehicle's battery it is strongly recommended that you keep your engine running while operating this compressor.
- This compressor is oil-free. Never try to lubricate piston and cylinder with motor oil or WD-40. Make sure cylinder and piston is clean and free of obstruction.
- Periodically check all electrical components.
- Inspect air hose connections for leaks with soap and water solution. If a leak is detected, tighten connections if needed.
- This compressor will become very HOT during and immediately after use. Do not touch this compressor with bare hands during and immediately after usage.
- This compressor is equipped with Automatic Reset Thermal Protection. In the event this unit reaches an unsafe operating temperature, thermal protector will cut off power and can automatically restart when temperature returns to a safe operating level. **When thermal protection is activated, stop operation for at least 30 minutes.**

4. TWO YEARS LIMITED WARRANTY

Air-Zenith warranties this product to be free from defects in material or workmanship under normal use and service; and limits the remedies to repair or replacement. This warranty shall extend for a period of two years from the original owner and original date of purchase, and is valid only within the continental limits of the United States of America. Air-Zenith reserves the right to examine any warranty claim to determine the cause of failure. Air-Zenith's obligation under this warranty shall be limited to repairing, replacing, or crediting at its option any parts proven defective. No labor, lift, service or storage charges will be reimbursed for any reason. Damages to Air-Zenith compressors resulting from misuse or abuse shall void this limited warranty. Any return freight charges must be prepaid by the customer. Air-Zenith shall not be liable for any damage or injury to persons or property resulting from improper installation or misuse of this product. If it is due to improper installation or misuse, a repair charge will be assessed and the customer will be contacted before work is performed or replacement parts are shipped.

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Installation Manual



Permissible Modifications

1. If extending the height sensor harness is necessary because of the size of the vehicle, order one of two kits:
 - a. 27700 Kit-Height Sensor 4' Ext (2 extension harnesses)
 - b. 27701 Kit-Height Sensor 8' Ext (2 extension harnesses)
2. If it is necessary to extend the display cable beyond the 4-foot cable that is supplied, purchase a USB A/M adapter extension of up to 8 feet. Use an off-the-shelf USB 3.0 cable if possible.
3. If using an Air-Zenith OB2 compressor, follow the wiring diagram below (fig. 33). The 70A fuse, relay, etc. are supplied with compressor. Wiring requirements for the compressor should follow manufacturer's recommendation.

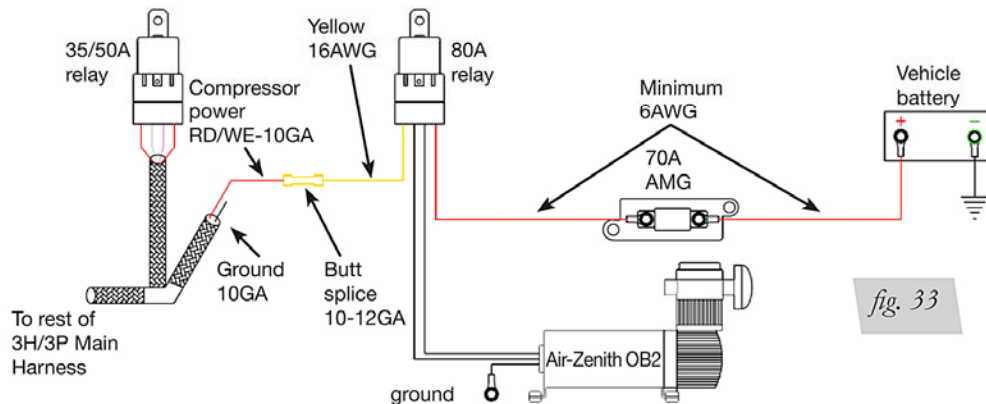


fig. 33

