

## **LIMITED WARRANTY**

VIAIR Corporation warrants this product, when properly installed and under normal conditions of use, to be free from defects in workmanship and materials for a period of one year from provided date of purchase. To receive a replacement or for repairs, return the complete unit to retailer from whom it was purchased along with proof of purchase.

Returns should be made within the time period and conditions of the retailer's policy for exchanges. If you are unable to contact your dealer, contact VIAIR directly for repairs or replacement at our option.

## **PLEASE NOTE:**

**THIS WARRANTY COVERS PRODUCT DEFECTS ONLY. IT DOES NOT COVER INCIDENTAL OR CONSEQUENTIAL DAMAGES AS RESULT OF MISUSE OR ABUSE.**

# **VIAIR**

*Your Vital Air Source*

**VIAIR CORPORATION**

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# **VIAIR**

*Your Vital Air Source*

## **MODEL NUMBER:**

□ 00090 - 090C AIR COMPRESSOR KIT

## **IMPORTANT:**

It is essential that you and any other operator of this product read and understand the contents of this manual before installing and using this product.

SAVE THIS MANUAL FOR FUTURE REFERENCE



## **USER MANUAL**

## IMPORTANT SAFETY INSTRUCTIONS

### CAUTION - To reduce risk of electrical shock or Electrocutation:

- Do not disassemble. Do not attempt repairs or modifications. Refer to qualified service agencies for all service and repairs.
- Do not use this product in or area where it can fall or be pulled into water or other liquids.
- Do not reach for this product if it has fallen into liquid.
- Use this compressor with 12-volt DC systems only.
- This product should never be left unattended during use.

### WARNING - To prevent injuries:

- Never allow children to operate this compressor. Close supervision is necessary when this compressor is being used near children.
- This compressor will become very HOT during and immediately after use. Do not touch any part of this compressor with bare hands, other than the ON/OFF switch, during and immediately after use.
- Do not use this product near flames or explosive materials or where aerosol products are being used.
- Do not operate this product where oxygen is being administered.
- Do not pump anything other than atmospheric air.
- Never use this product while sleepy or drowsy.
- Do not use any tools or attachments without first determining maximum air pressure for that tool or attachment.
- Never point any air nozzle or air sprayer toward another person or any part of the body.
- Wear safety glass or goggles when operating this product.
- Use only in well ventilated areas.

## INSTALLATION

Please read and follow the Installation Instruction carefully to avoid injury or damage to the compressor or your vehicle.

Each of our air compressor and parts has been carefully produced and packaged. Before you begin installation, please familiarize yourself with this manual.

### Selecting a Mounting Location:

The selection of proper mounting location for your air compressor will help ensure a long and trouble free compressor service life. Please pay close attention to the following guidelines:

1. Select a FLAT AND SECURE location where the compressor can be mounted.
2. To maximize air compressor performance, locate compressor as CLOSE TO THE BATTERY as possible so that length of positive lead wire required is at a minimum.
3. Choose mounting location that is as cool as possible and AWAY FROM HEAT SOURCES. The cooler the ambient temperature the less chance the compressor will overheat.
4. This compressor is not moisture or dust resistant. Do not mount compressor in locations where the unit is likely to come in contact with the elements.
5. If it is necessary to mount the air compressor farther away from the battery, such as inside your vehicle or in the bed of your pickup, use a minimum 16 AWG positive lead wire for remote installation.
6. Do not mount compressor near areas where flammable liquids are stored.

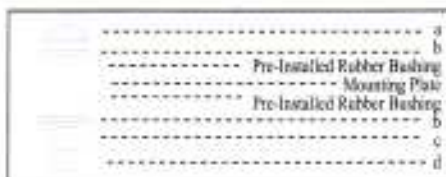
## MOUNTING AND WIRING

1. Disconnect ground cable from vehicle's battery.
2. Temporarily position the air compressor in the location where it will be mounted.
3. Route ground wire to the negative post of the battery or to an appropriate grounding point and cut ground wire to length as needed.
4. Mount air compressor with the four sets of 13/64" (5 mm) bolts, nuts, washers, and locking washers provided. Use of thread sealant recommended.
5. **IMPORTANT:** Please note, your compressor may have a check valve. **DO NOT** remove check valve from the unit.
6. Connect compressor's positive lead wire to one of the leads of your pressure switch.
7. Make sure that your compressor setup is properly fused. For appropriate fuse size, refer to amp draw of compressor in the specifications section of this manual.
8. Always locate fuse as close as possible to power source.
9. Before connecting to power source, re-check to make sure that all connections are properly connected.
10. Connect and test compressor system by running the compressor for a short time to build up pressure in your air tank.
11. Once air pressure reaches preset cut out pressure of your pressure switch, the compressor will shut off. Inspect all air line connections for leaks with soap and water solution. If a leak is detected, the air line may not be cut squarely or pushed all the way in. Fix air fitting connections as needed.

## 090C Compressor Installation Parts List:

- a. Mounting Bolts (4pcs)
- b. Flat Washers (8pcs)
- c. Locking Washer (4pcs)
- d. Nuts (4pcs)

(Fig. 1) Compressor Mounting Hardware



- a. Mounting Bolt
- b. Flat Washer
- c. Locking Washer
- d. Nut

## OPERATING INSTRUCTION

1. **IMPORTANT:** Always operate the compressor **BELOW** the **MAXIMUM PRESSURE RATING** of the compressor. Please refer to Application & Specifications Sections of this manual for details.
2. Always observe the **MAXIMUM DUTY CYCLE** of the air compressor. Refer to compressor Applications and Specifications Sections of this manual for details. Operations exceeding maximum pressure ratings and/or duty cycle will result in damage to air compressor.
3. To prevent discharge of your vehicle's battery, we strongly recommend that you keep the vehicle's engine running while using the air compressor.
4. **ONLY OPERATE THE AIR COMPRESSOR IN WELL-VENTILATED AREAS.** Compressor performance is enhanced when operating compressor with vehicle's engine running.

## MAINTENANCE & REPAIRS

1. Periodically check all electrical, fittings connections. Clean and tighten as needed.
2. Periodically check all mounting screws. Tighten as needed.
3. Regularly clean dust and dirt from compressor cooling fins and motor housing.
4. Your air compressor is equipped with permanently-lubricated, maintenance-free motor. Never try to lubricate compressor.
5. All repairs should be performed by Manufacturer or Manufacturer's Authorized Service Agencies only.

**CAUTION:** Never touch the air compressor or fittings connected to the air compressor, with bare hands during or immediately after usage. It will become very HOT during and after use, if necessary, wear heat resistant gloves.

## SPECIFICATIONS

### Part No. 00090/ 090C Air Compressor

Motor Voltage:	12 volts
Max. Current Consumption:	10 amps
Motor Type:	Perm. magnetic
Max. Working Pressure:	120 PSI
Max. Duty Cycle (@72°F & 100 PSI):	9%
Max. Ambient Temperature:	158°F
Min. Ambient Temperature:	-40°F

## TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE(S)	CORRECTIVE ACTION
Compressor will not run	<ol style="list-style-type: none"> <li>1. No power, power switch is OFF</li> <li>2. Blown fuse</li> <li>3. Faulty pressure switch bad. (If compressor is hooked up to pressure switch).</li> </ol>	<ol style="list-style-type: none"> <li>1. Make sure compressor switch is ON</li> <li>2. Disconnect compressor from power and replace fuse. (Refer to Specifications section for correct fuse amperage)</li> <li>3. Replace pressure switch</li> </ol>
Excessive knocking or rattling	<ol style="list-style-type: none"> <li>1. Loose mounting bolts</li> <li>2. Worn bearing on eccentric or motor shaft</li> <li>3. Cylinder or piston ring is worn</li> </ol>	<ol style="list-style-type: none"> <li>1. Tighten bolts</li> <li>2. Replace compressor</li> <li>3. Replace compressor</li> </ol>

## TROUBLESHOOTING CHART

### PROBLEM

### POSSIBLE CAUSE(S)

### CORRECTIVE ACTION

Tank pressure drops when compressor shuts off	<ol style="list-style-type: none"><li>1. Loose drain cock</li><li>2. Check valve leaking</li><li>3. Loose connections</li></ol>	<ol style="list-style-type: none"><li>1. Tighten drain cock</li><li>2. Replace check valve or compressor</li><li>3. Check all connections with soap and water solution and tighten</li></ol>
Compressor runs continuously and air flow lower than normal	<ol style="list-style-type: none"><li>1. Excessive air usage</li><li>2. Loose connections</li><li>3. Worn piston ring or inlet valve.</li></ol>	<ol style="list-style-type: none"><li>1. Decrease air usage</li><li>2. Check all connections with soap and water solution and tighten</li><li>3. Replace compressor</li></ol>
Compressor runs continuously causing safety valve (if equipped) to open.	<ol style="list-style-type: none"><li>1. Bad pressure switch</li><li>2. Defective safety valve</li></ol>	<ol style="list-style-type: none"><li>1. Replace pressure switch</li><li>2. Replace safety valve</li></ol>
Excessive moisture in discharge	<ol style="list-style-type: none"><li>1. Excessive water in air tank</li><li>2. High humidity</li></ol>	<ol style="list-style-type: none"><li>1. Drain tank, tilt tank to drain. Drain tank more frequently.</li><li>2. Move compressor to area with less humidity, or use water separator.</li></ol>

**CAUTION: NEVER DISASSEMBLE COMPRESSOR WHILE COMPRESSOR IS PRESSURIZED.**