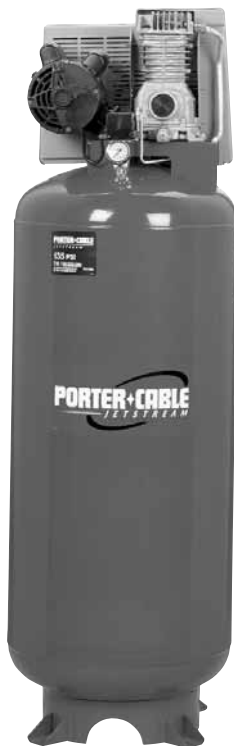


# Instruction manual

**MODEL**  
**CPLC7060V**

# Single Stage Oillube Compressor



### **IMPORTANT**

Please make certain that the person who is to use this equipment carefully reads and understands these instructions before starting operations.

To learn more about Porter-Cable  
visit our website at:  
<http://www.porter-cable.com>

**PORTER-CABLE®**  
PROFESSIONAL POWER TOOLS

The Model and Serial No. plate is located on the frame. Record these numbers in the spaces below and retain for future reference.

Model No. \_\_\_\_\_

Type \_\_\_\_\_

Serial No. \_\_\_\_\_

## SAFETY GUIDELINES - DEFINITIONS

This manual contains information that is important for you to know and understand. This information relates to protecting **YOUR SAFETY** and **PREVENTING EQUIPMENT PROBLEMS**. To help you recognize this information, we use the symbols below. Please read the manual and pay attention to these sections.

<p><b>⚠ DANGER</b> indicates an imminently hazardous situation which, if not avoided, will result in <b>death or serious injury</b>.</p>	<p><b>⚠ CAUTION</b> indicates a potentially hazardous situation which, if not avoided, <b>may</b> result in <b>minor or moderate injury</b>.</p>
<p><b>⚠ WARNING</b> indicates a potentially hazardous situation which, if not avoided, <b>could</b> result in <b>death or serious injury</b>.</p>	<p><b>⚠ CAUTION</b> used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, <b>may</b> result in <b>property damage</b>.</p>
<p>Call our <b>Toll Free Number 1-888-559-8550</b>, to obtain the location of the nearest Authorized Service Center for ordering repair parts and for warranty repairs.</p> <p>When ordering repair parts from your local Authorized Service Center, always give the following information:</p> <ul style="list-style-type: none"><li>• Model number of your compressor</li><li>• Part number and description of the item you wish to purchase</li></ul>	
<p><b>Retain Original Sales Receipt as Proof of Purchase for Warranty Repair Work.</b></p>	

## IMPORTANT SAFETY INSTRUCTIONS

**⚠ WARNING** When using electric tools, basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injury, including the following:

### READ AND FOLLOW ALL INSTRUCTIONS.

This tool was designed for certain applications. Porter-Cable strongly recommends that this tool NOT be modified and/or used for any application other than for which it was designed. If you have any questions relative to its application, DO NOT use the tool until you have written Porter-Cable and we have advised you.

Technical Service Manager  
Porter-Cable Corporation  
4825 Highway 45 North  
P.O. Box 2468  
Jackson, TN 38302-2468

# IMPORTANT SAFETY INSTRUCTIONS (cont'd)

## SAVE THESE INSTRUCTIONS



### ⚠ WARNING



IMPROPER OPERATION OR MAINTENANCE OF THIS PRODUCT COULD RESULT IN SERIOUS INJURY AND PROPERTY DAMAGE. READ AND UNDERSTAND ALL WARNINGS AND OPERATING INSTRUCTIONS BEFORE USING THIS EQUIPMENT.

## HAZARD

### RISK OF EXPLOSION OR FIRE



WHAT CAN HAPPEN	HOW TO PREVENT IT
<p>IT IS NORMAL FOR ELECTRICAL CONTACTS WITHIN THE MOTOR AND PRESSURE SWITCH TO SPARK.</p> <p>IF ELECTRICAL SPARKS FROM COMPRESSOR COME INTO CONTACT WITH FLAMMABLE VAPORS, THEY MAY IGNITE, CAUSING FIRE OR EXPLOSION.</p> <p>RESTRICTING ANY OF THE COMPRESSOR VENTILATION OPENINGS WILL CAUSE SERIOUS OVERHEATING AND COULD CAUSE FIRE.</p> <p>UNATTENDED OPERATION OF THIS PRODUCT COULD RESULT IN PERSONAL INJURY OR PROPERTY DAMAGE. TO REDUCE THE RISK OF FIRE, DO NOT ALLOW THE COMPRESSOR TO OPERATE UNATTENDED.</p>	<p>ALWAYS OPERATE THE COMPRESSOR IN A WELL VENTILATED AREA FREE OF COMBUSTIBLE MATERIALS, GASOLINE OR SOLVENT VAPORS.</p> <p>IF SPRAYING FLAMMABLE MATERIALS, LOCATE COMPRESSOR AT LEAST 20 FEET AWAY FROM SPRAY AREA. AN ADDITIONAL LENGTH OF HOSE MAY BE REQUIRED.</p> <p>STORE FLAMMABLE MATERIALS IN A SECURE LOCATION AWAY FROM COMPRESSOR.</p> <p>NEVER PLACE OBJECTS AGAINST OR ON TOP OF COMPRESSOR. OPERATE COMPRESSOR IN AN OPEN AREA AT LEAST 12 INCHES AWAY FROM ANY WALL OR OBSTRUCTION THAT WOULD RESTRICT THE FLOW OF FRESH AIR TO THE VENTILATION OPENINGS.</p> <p>OPERATE COMPRESSOR IN A CLEAN, DRY, WELL VENTILATED AREA. <b>DO NOT OPERATE UNIT INDOORS OR IN ANY CONFINED AREA.</b></p> <p>ALWAYS REMAIN IN ATTENDANCE WITH THE PRODUCT WHEN IT IS OPERATING.</p> <p>ALWAYS DISCONNECT ELECTRICAL POWER BY MOVING PRESSURE SWITCH LEVER TO THE OFF POSITION AND DRAIN TANK DAILY OR AFTER EACH USE.</p>

### RISK OF BURSTING



**AIR TANK:** THE FOLLOWING CONDITIONS COULD LEAD TO A WEAKENING OF THE TANK, AND RESULT IN A VIOLENT TANK EXPLOSION AND COULD CAUSE PROPERTY DAMAGE OR SERIOUS INJURY.

WHAT CAN HAPPEN	HOW TO PREVENT IT
<ol style="list-style-type: none"><li>FAILURE TO PROPERLY DRAIN CONDENSED WATER FROM THE TANK, CAUSING RUST AND THINNING OF THE STEEL TANK.</li><li>MODIFICATIONS OR ATTEMPTED REPAIRS TO THE TANK.</li><li>UNAUTHORIZED MODIFICATIONS TO THE UNLOADER VALVE, SAFETY VALVE, OR ANY OTHER COMPONENTS WHICH CONTROL TANK PRESSURE.</li><li>EXCESSIVE VIBRATION CAN WEAKEN THE AIR TANK AND CAUSE RUPTURE OR EXPLOSION.</li></ol> <p><b>ATTACHMENTS &amp; ACCESSORIES:</b> EXCEEDING THE PRESSURE RATING OF AIR TOOLS, SPRAY GUNS, AIR OPERATED ACCESSORIES, TIRES AND OTHER INFLATABLES CAN CAUSE THEM TO EXPLODE OR FLY APART, AND COULD RESULT IN SERIOUS INJURY.</p>	<p>DRAIN TANK DAILY OR AFTER EACH USE. IF TANK DEVELOPS A LEAK, REPLACE IT IMMEDIATELY WITH A NEW TANK OR REPLACE THE ENTIRE COMPRESSOR.</p> <p>NEVER DRILL INTO, WELD, OR MAKE ANY MODIFICATIONS TO THE TANK OR ITS ATTACHMENTS.</p> <p>THE TANK IS DESIGNED TO WITHSTAND SPECIFIC OPERATING PRESSURES. <b>NEVER MAKE ADJUSTMENTS OR PARTS SUBSTITUTIONS TO ALTER THE FACTORY SET OPERATING PRESSURES.</b></p> <p>FOR ESSENTIAL CONTROL OF AIR PRESSURE, YOU MUST INSTALL A PRESSURE REGULATOR AND PRESSURE GAUGE TO THE AIR OUTLET OF YOUR COMPRESSOR. FOLLOW THE EQUIPMENT MANUFACTURERS RECOMMENDATION AND NEVER EXCEED THE MAXIMUM ALLOWABLE PRESSURE RATING OF ATTACHMENTS. <b>NEVER USE COMPRESSOR TO INFLATE SMALL LOW-PRESSURE OBJECTS SUCH AS CHILDREN'S TOYS, FOOTBALLS, BASKETBALLS. ETC.</b></p>

# IMPORTANT SAFETY INSTRUCTIONS (cont'd)

## RISK FROM FLYING OBJECTS



WHAT CAN HAPPEN	HOW TO PREVENT IT
<p>THE <b>COMPRESSED AIR</b> STREAM CAN CAUSE <b>SOFT TISSUE DAMAGE</b> TO EXPOSED SKIN AND CAN PROPEL DIRT, CHIPS, <b>LOOSE PARTICLES</b> AND SMALL OBJECTS <b>AT HIGH SPEED</b>, RESULTING IN PROPERTY DAMAGE OR PERSONAL INJURY.</p>	<p><b>ALWAYS WEAR ANSI Z87.1 APPROVED SAFETY GLASSES WITH SIDE SHIELDS</b> WHEN USING THE COMPRESSOR.</p> <p><b>NEVER POINT ANY NOZZLE OR SPRAYER TOWARD ANY PART OF THE BODY OR AT OTHER PEOPLE OR ANIMALS.</b></p> <p><b>ALWAYS TURN THE COMPRESSOR OFF AND BLEED PRESSURE</b> FROM THE AIR HOSE AND TANK BEFORE ATTEMPTING MAINTENANCE, ATTACHING TOOLS OR ACCESSORIES.</p>

## RISK TO BREATHING



WHAT CAN HAPPEN	HOW TO PREVENT IT
<p>THE <b>COMPRESSED AIR</b> DIRECTLY FROM YOUR COMPRESSOR IS <b>NOT SAFE FOR BREATHING</b>. THE <b>AIR STREAM MAY CONTAIN CARBON MONOXIDE, TOXIC VAPORS, OR SOLID PARTICLES</b> FROM THE TANK. <b>BREATHING THESE CONTAMINANTS CAN CAUSE SERIOUS INJURY OR DEATH.</b></p>	<p><b>AIR OBTAINED DIRECTLY FROM THE COMPRESSOR SHOULD NEVER BE USED TO SUPPLY AIR FOR HUMAN CONSUMPTION.</b> IN ORDER TO USE AIR PRODUCED BY THIS COMPRESSOR FOR BREATHING, <b>SUITABLE FILTERS AND IN-LINE SAFETY EQUIPMENT MUST BE PROPERLY INSTALLED.</b> <b>IN-LINE FILTERS AND SAFETY EQUIPMENT USED IN CONJUNCTION WITH THE COMPRESSOR MUST BE CAPABLE OF TREATING AIR TO ALL APPLICABLE LOCAL AND FEDERAL CODES PRIOR TO HUMAN CONSUMPTION.</b></p> <p><b>WORK IN AN AREA WITH GOOD CROSS-VENTILATION.</b> READ AND <b>FOLLOW THE SAFETY INSTRUCTIONS</b> PROVIDED ON THE LABEL OR SAFETY DATA SHEETS <b>FOR THE MATERIAL YOU ARE SPRAYING.</b> <b>USE A NIOSH/MSHA APPROVED RESPIRATOR</b> DESIGNED FOR USE WITH YOUR SPECIFIC APPLICATION.</p>

SPRAYED MATERIALS SUCH AS PAINT, PAINT SOLVENTS, PAINT REMOVER, INSECTICIDES, WEED KILLERS, CONTAIN HARMFUL VAPORS AND POISONS.

## RISK OF ELECTRICAL SHOCK



WHAT CAN HAPPEN	HOW TO PREVENT IT
<p>YOUR AIR COMPRESSOR IS POWERED BY ELECTRICITY. LIKE ANY OTHER ELECTRICALLY POWERED DEVICE, IF IT IS NOT USED PROPERLY IT MAY CAUSE ELECTRIC SHOCK.</p>	<p><b>NEVER OPERATE THE COMPRESSOR OUTDOORS</b> WHEN IT IS RAINING OR IN WET CONDITIONS.</p> <p><b>NEVER OPERATE COMPRESSOR WITH PROTECTIVE COVERS REMOVED</b> OR DAMAGED. a</p>
<p>REPAIRS ATTEMPTED BY UNQUALIFIED PERSONNEL CAN RESULT IN SERIOUS INJURY OR DEATH BY ELECTROCUTION.</p>	<p>ANY <b>ELECTRICAL WIRING OR REPAIRS</b> REQUIRED ON THIS PRODUCT <b>SHOULD BE PERFORMED BY AUTHORIZED SERVICE CENTER PERSONNEL</b> IN ACCORDANCE WITH NATIONAL AND LOCAL ELECTRICAL CODES.</p>
<p>ELECTRICAL GROUNDING: FAILURE TO PROVIDE ADEQUATE GROUNDING TO THIS PRODUCT COULD RESULT IN SERIOUS INJURY OR DEATH FROM ELECTROCUTION. SEE GROUNDING INSTRUCTIONS.</p>	<p><b>MAKE CERTAIN THAT THE ELECTRICAL CIRCUIT TO WHICH THE COMPRESSOR IS CONNECTED PROVIDES PROPER ELECTRICAL GROUNDING, CORRECT VOLTAGE AND ADEQUATE FUSE PROTECTION.</b></p>

# IMPORTANT SAFETY INSTRUCTIONS (cont'd)

## RISK FROM MOVING PARTS



WHAT CAN HAPPEN	HOW TO PREVENT IT
<p><b>MOVING PARTS</b> SUCH AS THE PULLEY, FLY-WHEEL AND BELT <b>CAN CAUSE SERIOUS INJURY</b> IF THEY COME INTO CONTACT WITH YOU OR YOUR CLOTHING.</p> <p><b>ATTEMPTING TO OPERATE COMPRESSOR WITH DAMAGED OR MISSING PARTS</b> OR ATTEMPTING TO REPAIR COMPRESSOR WITH PROTECTIVE SHROUDS REMOVED CAN EXPOSE YOU TO MOVING PARTS AND <b>CAN RESULT IN SERIOUS INJURY.</b></p>	<p><b>NEVER OPERATE THE COMPRESSOR WITH GUARDS OR COVERS WHICH ARE DAMAGED OR REMOVED.</b></p> <p>ANY <b>REPAIRS</b> REQUIRED ON THIS PRODUCT <b>SHOULD BE PERFORMED BY AUTHORIZED SERVICE CENTER PERSONNEL.</b></p>

## RISK OF BURNS



WHAT CAN HAPPEN	HOW TO PREVENT IT
<p><b>TOUCHING EXPOSED METAL</b> SUCH AS THE COMPRESSOR HEAD OR OUTLET TUBES, <b>CAN RESULT IN SERIOUS BURNS.</b></p>	<p><b>NEVER TOUCH ANY EXPOSED METAL PARTS ON COMPRESSOR</b> DURING OR IMMEDIATELY AFTER OPERATION. <b>COMPRESSOR WILL REMAIN HOT</b> FOR SEVERAL MINUTES AFTER OPERATION.</p> <p><b>DO NOT REACH AROUND PROTECTIVE SHROUDS OR ATTEMPT MAINTENANCE UNTIL UNIT HAS BEEN ALLOWED TO COOL.</b></p>

## RISK OF FALLING



WHAT CAN HAPPEN	HOW TO PREVENT IT
<p>A PORTABLE <b>COMPRESSOR CAN FALL</b> FROM A TABLE, WORKBENCH OR ROOF <b>CAUSING DAMAGE TO THE COMPRESSOR AND COULD RESULT IN SERIOUS INJURY OR DEATH TO THE OPERATOR.</b></p>	<p>ALWAYS <b>OPERATE COMPRESSOR IN A STABLE SECURE POSITION</b> TO PREVENT ACCIDENTAL MOVEMENT OF THE UNIT. <b>NEVER OPERATE COMPRESSOR ON A ROOF OR OTHER ELEVATED POSITION.</b> USE ADDITIONAL AIR HOSE TO REACH HIGH LOCATIONS.</p>

## RISK OF PROPERTY DAMAGE WHEN TRANSPORTING COMPRESSOR

*(Fire, Inhalation, Damage to Vehicle Surfaces)*



WHAT CAN HAPPEN	HOW TO PREVENT IT
<p><b>OIL CAN LEAK OR SPILL</b> AND COULD RESULT IN FIRE OR BREATHING HAZARD, SERIOUS INJURY OR DEATH CAN RESULT. OIL LEAKS WILL DAMAGE CARPET, PAINT OR OTHER SURFACES IN VEHICLES OR TRAILERS.</p>	<p>ALWAYS <b>PLACE COMPRESSOR ON A PROTECTIVE MAT WHEN TRANSPORTING</b> TO PROTECT AGAINST DAMAGE TO VEHICLE FROM LEAKS. REMOVE COMPRESSOR FROM VEHICLE IMMEDIATELY UPON ARRIVAL AT YOUR DESTINATION.</p>

# GLOSSARY

Become familiar with these terms before operating the unit.

**CFM:** Cubic feet per minute.

**SCFM:** Standard cubic feet per minute; a unit of measure of air delivery.

**PSIG:** Pounds per square inch gauge; a unit of measure of pressure.

**ASME:** American Society of Mechanical Engineers; made, tested, inspected and registered to meet the standards of the ASME.

**Code Certification:** Products that bear one or more of the following marks: UL, CUL, ETL, CETL, have been evaluated by OSHA certified independent safety laboratories and meet the applicable Underwriters Laboratories Standards for Safety.

**Cut-In Pressure:** While the motor is off, air tank pressure drops as you continue to use your accessory. When the tank pressure drops to the factory set low pressure the motor will restart automatically. The low pressure at which the motor automatically restarts is called "cut-in" pressure.

**Cut-Out Pressure:** When an air compressor is turned on and begins to run, air pressure in the air tank begins to build. It builds to a factory set high pressure before the motor automatically shuts off - protecting your air tank from pressure higher than its capacity. The high pressure at which the motor shuts off is called "cut-out" pressure.

**Branch Circuit:** Circuit carrying electricity from electrical panel to outlet.

## SPECIFICATIONS

### Model No.

Horsepower Peak  
Voltage/Hertz/Phase  
Minimum Branch Circuit Requirement  
\* Fuse Type  
Air Tank Capacity (Gallon)  
Approximate Cut-in Pressure  
Approximate Cut-out Pressure  
SCFM @ 40 PSIG  
SCFM @ 90 PSIG

### CPLC7060V

7.0  
240V/60/1  
15 Amp  
Time Delay  
60 ASME, Vertical  
110 PSIG  
135 PSIG  
12.1  
9.7

\* **CAUTION** This air compressor can be operated on a 15 amp circuit if:

1. Voltage supply to circuit is normal.
2. Circuit is not used to supply any other electrical needs (lights, appliances, etc.)
3. Extension cords comply with specifications in owners manual.
4. Circuit is equipped with 15 amp circuit breaker or 15 amp time delay fuse marked Type D.

If any of the above conditions cannot be met, or if operation of the air compressor repeatedly causes interruption of the power it may be necessary to operate it from a 20 amp circuit. It is not necessary to change the cord set.

\* A circuit breaker is preferred. Use only a fuse or circuit breaker that is the same rating as the branch circuit on which the air compressor is operated. If the air compressor is connected to a circuit protected by fuses, use dual element time delay fuses.

## ACCESSORIES

Accessories for this unit are available at the store the unit was purchased.

# ASSEMBLY

## Tools Required for Assembly

- 1 - 9/16" socket or open end wrench  
Electric drill

## Unpacking

1. Remove all packaging.

**⚠ CAUTION** It may be necessary to brace or support one side of the outfit when removing the pallet because the air compressor will have a tendency to tip.

2. Remove and discard the (4) screws and washers holding the compressor to the pallet.
3. With the help of another person carefully remove air compressor from pallet and place on a level surface.

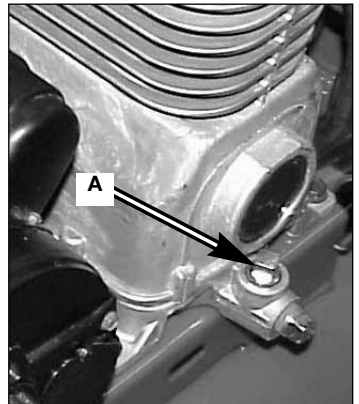
## To Add Oil To Pump

**⚠ CAUTION** Compressors are shipped without oil. A small amount of oil may be present in the pump upon receipt of the air compressor. This is due to plant testing and does not mean the pump contains oil. Do not attempt to operate this air compressor without first adding oil to the crankcase. Serious damage can result from even limited operation unless filled with oil and broken in correctly. Make sure to closely follow initial start-up procedures.

**⚠ CAUTION** Multi-Viscosity motor oils, like 10W 30, should not be used in an air compressor. They leave carbon deposits on critical components, thus reducing performance and compressor life. Use air compressor oil only.

**NOTE:** Use an air compressor oil such as SAE-20 API CG/CD heavy duty motor oil. Under extreme winter conditions use SAE-10 weight oil.

1. Place unit on a level surface.
2. Remove oil fill plug (A) and slowly add a compressor oil until it is even with the top of the oil fill hole. **NOTE:** Do not allow oil to be lower than 3/8" (6 threads) from the top at any time. When filling the crankcase, the oil flows very slowly into the pump. If the oil is added too quickly, it will overflow and appear to be full. **NOTE:** Crankcase oil capacity is approximately 16 fluid ounces.
3. Replace oil fill plug.



# INSTALLATION

## Location of the Air Compressor

- Locate the air compressor in a clean, dry, and well ventilated area.
- Located the air compressor at least 12" away from the wall or other obstructions that will interfere with the flow of air.
- Locate the air compressor as close to the main power supply as possible to avoid using long lengths of electrical wiring. Long lengths of electrical wiring could cause power loss to the motor.
- The air filter must be kept clear of obstructions which could reduce air flow to the air compressor.

## Anchoring of the Air Compressor

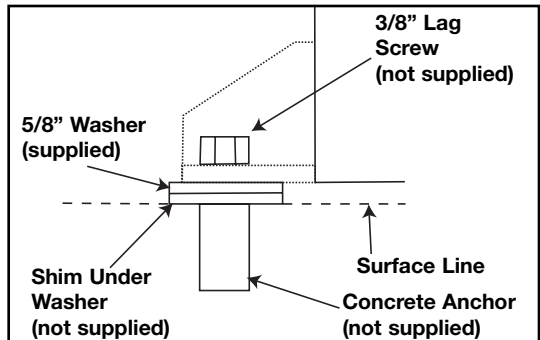


**WARNING** Excessive Vibration can weaken the air tank and cause an explosion. The compressor must be properly mounted.

The air compressor MUST be bolted to a solid, level surface.

Hardware needed:

- 4 - Concrete anchors (not supplied)
  - 4 - 3/8" Lag screw to fit concrete anchors (not supplied)
  - 4 - 5/8" Washer (found in parts bag)
    - shims (if needed)
1. Place the air compressor on on a solid, level surface.
  2. Mark the surface using the holes in the air compressor feet as a template.
  3. Drill holes in the surface for the concrete anchors. Install concrete anchors.
  4. Line-up holes in surface with holes in air compressor feet.
  5. Place the (4) washers (supplied) between the floor and air compressor feet. If needed, solid shims may be placed between the washers and floor to evenly distribute weight on all four feet. See next figure.
  6. Place the (4) 3/8" lag screws through the air compressor feet, washers, shims, and into the anchors.
  7. Torque 3/8" lag screws to 7-10 ft.-lbs.





## Wiring Instructions

**⚠ CAUTION** Improper electrical installation of this product may void its warranty and your fire insurance. Have circuit wiring performed by qualified personnel such as a licensed electrician who is familiar with the current national electrical code and any prevailing local electrical codes.

**⚠ WARNING** **RISK OF ELECTRICAL SHOCK.** Improper electrical grounding can result in electrical shock. The wiring should be done by a qualified electrician

A qualified electrician needs to know the following before wiring:

1. The amperage rating of the electrical box should be adequate. Refer to the Specification Chart, in the parts manual, for this information.
2. The supply line should have the same electrical characteristics (voltage, cycle, phase) as the motor. Refer to the motor nameplate, on side of motor, for this information.

**NOTE:** The wiring must be the same as the motor nameplate voltage plus or minus 10%. Refer to local codes for recommended wire sizes, correct wire size, and maximum wire run; undersize wire causes high amp draw and overheating to the motor.

**⚠ CAUTION** **Electrical wiring must be located away from hot surfaces such as manifold assembly, compressor outlet tubes, heads, or cylinders.**

## GROUNDING INSTRUCTIONS

This product should be connected to a metallic, permanent wiring system, of an equipment-grounding terminal or lead on the product.

## Voltage and Circuit Protection

Refer to the Parts Manual for the voltage and minimum branch circuit requirements. Certain air compressors can be operated on a 15 amp circuit if the following conditions are met.

1. Voltage supply through branch circuit is 15 amps.
2. Circuit is not used to supply any other electrical needs (lights, appliances, etc.).
3. Circuit is equipped with a 15 amp circuit breaker or 15 amp time delay fuse.

**NOTE:** If compressor is connected to a circuit protected by fuses, use only time delay fuses marked "D".

If any of the above conditions cannot be met, or if operation of the compressor repeatedly causes interruption of the power, it may be necessary to operate it from a 20 amp circuit.

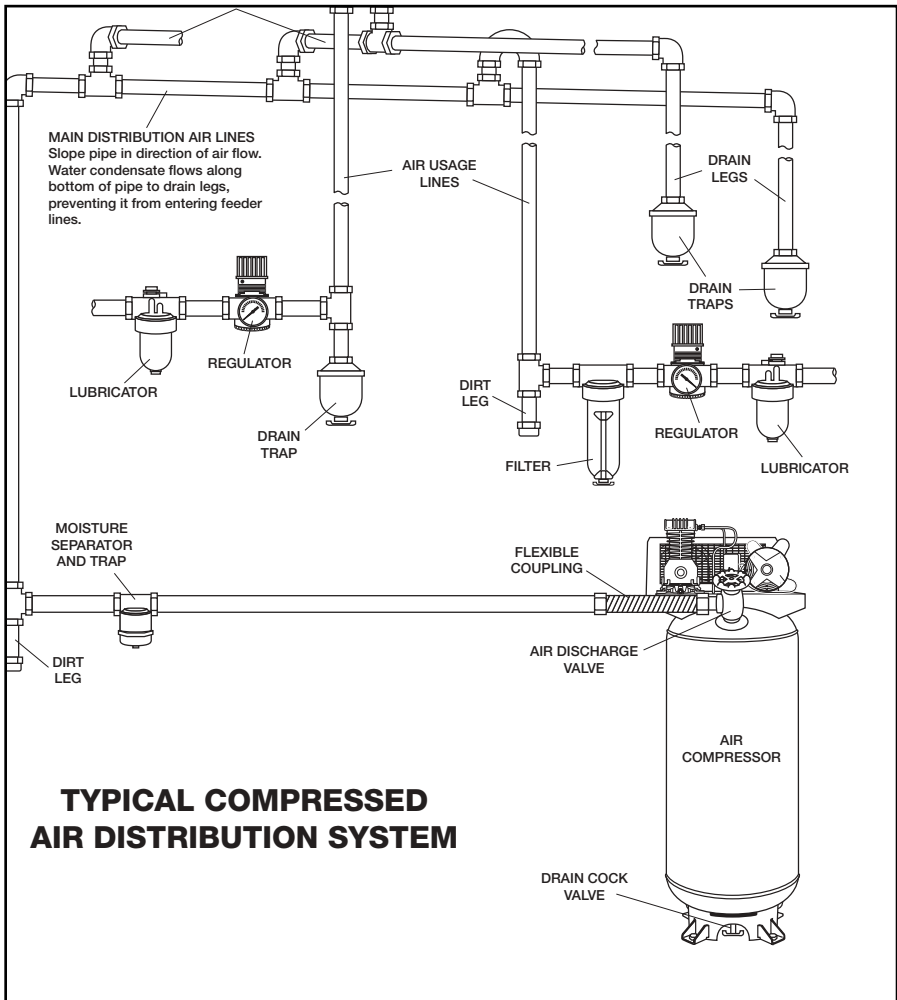
## Air Distribution System

### **⚠ WARNING**

Plastic or PVC pipe is not designed for use with compressed air. Regardless of its indicated pressure rating, plastic pipe can burst from air pressure. Use only metal pipe for air distribution lines.

The next figure represents a typical air distribution system. The following are tips to remember when setting up the air compressor's air distribution system.

- Use pipe that is the same size as the air tank outlet. Piping that is too small will restrict the flow of air.
- If piping is over 100 feet long, use the next larger size.
- Bury underground lines below the frost line and avoid pockets where condensation can gather and freeze. Apply pressure before underground lines are covered to make sure all pipe joints are free of leaks.
- A flexible coupling is recommended to be installed between the air discharge outlet and main air distribution line to allow for vibration.
- A separate regulator is recommended to control the air pressure. Air pressure from the tank is usually too high for individual air driven tools.



# OPERATION

## Know Your Air Compressor

READ THIS OWNER'S MANUAL AND SAFETY RULES BEFORE OPERATING YOUR UNIT. Compare the illustrations with your unit to familiarize yourself with the location of various controls and adjustments. Save this manual for future reference.

### Description of Operation

Become familiar with these controls before operating the unit.

**On/Auto/Off Switch:** Turn this switch ON to provide automatic power to the pressure switch and OFF to remove power at the end of each use.

**Pressure Switch:** The pressure switch automatically starts the motor when the air tank pressure drops below the factory set "cut-in" pressure. It stops the motor when the air tank pressure reaches the factory set "cut-out" pressure.

**Safety Valve:** If the pressure switch does not shut off the air compressor at its "cut-out" pressure setting, the safety valve will protect against high pressure by "popping out" at its factory set pressure (slightly higher than the pressure switch "cut-out" setting).

**Tank Pressure Gauge:** The tank pressure gauge indicates the reserve air pressure in the tank.

**Globe Valve (sold separately):** Opens and closes air discharge valve. Turn knob counter-clockwise to open and clockwise to close.

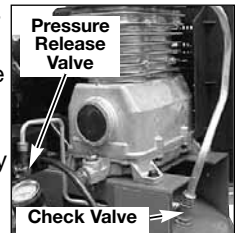
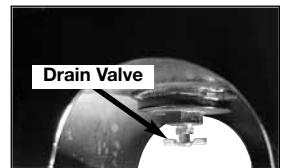
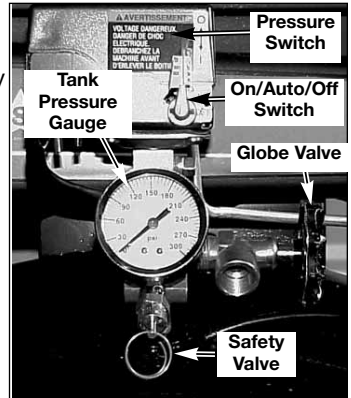
**Drain Valve:** The drain valve is located at the base of the air tank and is used to drain condensation at the end of each use.

**Cooling System (not shown):** This compressor contains an advanced design cooling system. At the heart of this cooling system is an engineered fan. It is perfectly normal for this fan to blow air through the vent holes in large amounts. You know that the cooling system is working when air is being expelled.

**Air Compressor Pump (not shown):** Compresses air into the air tank. Working air is not available until the compressor has raised the air tank pressure above that required at the air outlet.

**Check Valve:** When the air compressor is operating, the check valve is "open", allowing compressed air to enter the air tank. When the air compressor reaches "cut-out" pressure, the check valve "closes", allowing air pressure to remain inside the air tank.

**Pressure Release Valve:** The pressure release valve, located on the side of the pressure switch, is designed to automatically release compressed air from the compressor head and the outlet tube when the air compressor reaches "cut-out" pressure or is shut off. The pressure release valve allows the motor to restart freely. When the motor stops running, air will be heard escaping from this valve for a few seconds. No air should be heard leaking when the motor is running, or continuous leaking after unit reaches "cut-out" pressure.



**Air Intake Filter (not shown)** This filter is designed to clean air coming into the pump. This filter must always be clean and ventilation openings free from obstructions. See "Maintenance".

## How to Use Your Unit

### How to Stop:

1. Set the On/Auto/Off lever to "OFF".

### Before Starting

#### Break-in Procedure

#### **⚠ WARNING**

Serious damage may result if the following break-in instructions are not closely followed.

This procedure is required **before** the air compressor is put into service and when the check valve or a complete compressor pump has been replaced.

1. Make sure the On/Auto/Off lever is in the "OFF" position.
2. Recheck all wiring. Make sure wires are secure at all terminals connections. Make sure all contacts move freely and are not obstructed.
3. Open the globe valve fully to permit air to escape and prevent air pressure build up in the air tank during the break-in period.
4. Move the On/Auto/Off lever to "ON/AUTO" position. The compressor will start.
5. Run the compressor for 30 minutes. Make sure the globe valve is open and there is minimal air pressure build-up in tank.
6. Check all air line fittings and connections/piping for air leaks by applying a soap solution. Correct if necessary. **NOTE:** Minor leaks can cause the air compressor to overwork, resulting in premature breakdown or inadequate performance.
7. Check for excessive vibration. Readjust or shim air compressor feet, if necessary.
8. After 30 minutes, move the On/Auto/Off lever to "OFF" position and close the globe valve.
9. Move the On/Auto/Off lever to "ON/AUTO" position. The air receiver will fill to "cut-out" pressure and the motor will stop.

#### Before Each Start-Up:

1. Place On/Auto/Off lever to "OFF".
2. Close the globe valve.
3. Attach hose and accessories. **NOTE:** A regulator **MUST** be installed when using accessories rated at less than 110 PSI.

#### **⚠ WARNING**

Too much air pressure causes a hazardous risk of bursting. Check the manufacturer's maximum pressure rating for air tools and accessories. The regulator outlet pressure must never exceed the maximum pressure rating.

### How to Start

1. Turn the On/Auto/Off lever to "AUTO" and allow tank pressure to build. Motor will stop when tank pressure reaches "cut-out" pressure.
2. When the tank pressure reaches "cut-out" pressure open the globe valve.

**IMPORTANT:** When using regulator and other accessories refer to the manufacturer's instructions.

**NOTE:** Always operate the air compressor in well-ventilated areas free of gasoline or other combustible vapors. If the compressor is being used to operate a sprayer, DO NOT place compressor near the spray area.

# MAINTENANCE

## Customer Responsibilities

	Before each use	Daily or after each use	Every 8 hours	Every 40 hours	Every 100 hours	Every 160 hours	Yearly
Check Safety Valve	●						
Drain Tank		●					
Oil Leaks			●				
Check Oil			●				
Change Oil					●		
Unusual Noise and/or Vibration			●				
Air Filter				● <sup>1</sup>			
Drive Belt Condition				●			
Motor Pulley/Flywheel alignment						●	
Air compressor pump intake and exhaust valves							●
Inspect air lines and fittings for leaks		●					

1- more frequent in dusty or humid conditions

### **⚠ WARNING**

**Unit cycles automatically when power is on. When performing maintenance, you may be exposed to voltage sources, compressed air, or moving parts. Personal injuries can occur. Before performing any maintenance or repair, disconnect power source from the compressor and bleed off all air pressure.**

To ensure efficient operation and longer life of the air compressor outfit, a routine maintenance schedule should be prepared and followed. The following routine maintenance schedule is geared to an outfit in a normal working environment operating on a daily basis. If necessary, the schedule should be modified to suit the conditions under which your compressor is used. The modifications will depend upon the hours of operation and the working environment. Compressor outfits in an extremely dirty and/or hostile environment will require a greater frequency of all maintenance checks.

**NOTE:** See "Operation" section for the location of controls.

### To Check Safety Valve

### **⚠ WARNING**

**If the safety valve does not work properly, over-pressurization may occur, causing air tank rupture or an explosion.**

1. Before starting compressor, pull the ring on the safety valve to make sure that the safety valve operates freely. If the valve is stuck or does not operate smoothly, it must be replaced with the same type of valve.

## To Drain Tank

1. Set the On/Auto/Off lever to "OFF".
2. Close the globe valve.
3. Remove the air tool or accessory.
4. Open the globe valve and allow the air to slowly bleed from the air tank until tank pressure is approximately 20 psi.
5. Close the globe valve.
6. Drain water from air tank by opening drain valve (counter-clockwise) on bottom of tank.

### **⚠ WARNING**

Water will condense in the air tank. If not drained, water will corrode and weaken the air tank causing a risk of air tank rupture.

7. After the water has been drained, close the drain valve (clockwise). The air compressor can now be stored.

**NOTE:** If drain valve is plugged, release all air pressure. The valve can then be removed, cleaned, then reinstalled.

## Oil

### Checking

1. Remove the oil fill plug (A). The oil level should be even with the top of the fill hole and no lower than 6 threads from the top of fill hole.
2. If needed, slowly add oil until it reaches the top of fill hole.

**NOTE:** Use a air compressor oil such as SAE-20 (API CG/CD heavy duty motor oil. Under extreme winter conditions use SAE-10 weight oil.

### Changing

1. Remove the oil fill plug (A).
2. Remove the oil drain plug (B) and drain oil into a suitable container.
3. Replace the oil drain plug (B) and tighten securely

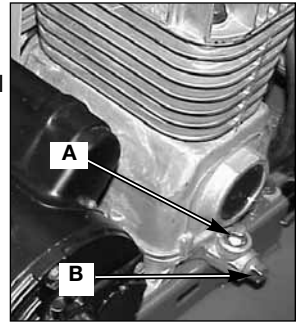
**NOTE:** Use a air compressor oil such as SAE-20 (API CG/CD heavy duty motor oil. Under extreme winter conditions use SAE-10 weight oil.

4. Slowly fill crankcase to the top of the fill hole. Crankcase capacity is 16 fluid ounces (473.2 ml).

### **⚠ CAUTION**

Overfilling with oil will cause premature compressor failure. Do not overfill.

5. Replace oil fill plug (A) and tighten securely.



## Air Filter - Inspection and Replacement

### **⚠ WARNING**

Hot surfaces. Risk of burn. Compressor heads are exposed when filter cover is removed. Allow compressor to cool prior to servicing.

### **⚠ CAUTION**

Keep the air filter clean at all times. Do not operate the air compressor with the air filter removed.

A dirty air filter will not allow the compressor pump to operate at full capacity. Before you use the compressor pump, check the air filter to be sure it is clean and in place.

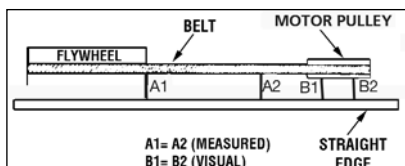
If it is dirty, replace it with a new filter. On some models, the filter may be removed by using a pair of needle nose pliers or a screwdriver. Pull or pry out the old filter and carefully clean the filter area. Push in the new air filter.

## Motor Pulley/Flywheel Alignment

**NOTE:** Once the motor pulley has been moved from its factory set location, the grooves of the flywheel and pulley must be aligned to within 1/16" to prevent excessive belt wear.

The air compressor flywheel and motor pulley must be in-line (in the same plane) within 1/16" to assure belt retention within flywheel belt grooves. To check alignment, perform the following steps:

1. Unplug air compressor from power source.
2. Remove belt guard
3. Place a straightedge against the outside of the flywheel and the motor drive pulley.
4. Measure the distance between the edge of the belt and the straightedge at points A1 and A2 in figure. The difference between measurements should be no more than 1/16".
5. If the difference is greater or less than 1/16" loosen the set screw holding the motor drive pulley to the shaft and adjust the pulley's position on the shaft until the A1 and A2 measurements are within 1/16" of each other.
6. Tighten the motor drive pulley set screw to 70-80 in.-lbs.
7. Visually inspect the motor drive pulley to verify that it is perpendicular to the drive motor shaft. Points B1 and B2 of Figure should appear to be equal. If they are not, loosen the setscrew of the motor drive pulley and equalize B1 and B2, using care not to disturb the belt alignment performed in step 2.
8. Retighten the motor drive pulley setscrew to 70-80 in.-lbs.
9. Reinstall belt guard.



## Air Compressor Pump Intake and Exhaust Valves

Once a year have a Trained Service Technician check the air compressor pump intake and exhaust valves.

## Inspect Air Lines and Fittings for Leaks

1. Turn the air compressor on to inspect for air leaks.
2. Apply a soap solution to all air line fittings and connections/piping.
3. Correct any leaks found.

**IMPORTANT:** Even minor leaks can cause the air compressor to overwork, resulting in premature breakdown or inadequate performance.

## SERVICE AND ADJUSTMENTS

### ⚠ WARNING

Unit cycles automatically when power is on. When doing Maintenance, you may be exposed to voltage sources, compressed air or moving parts. Personal injuries can occur.

Before performing any Maintenance or repair, unplug the compressor and bleed off all air pressure.

### ALL MAINTENANCE AND REPAIR OPERATIONS NOT LISTED MUST BE PERFORMED BY TRAINED SERVICE TECHNICIAN.

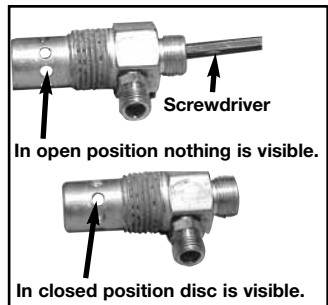
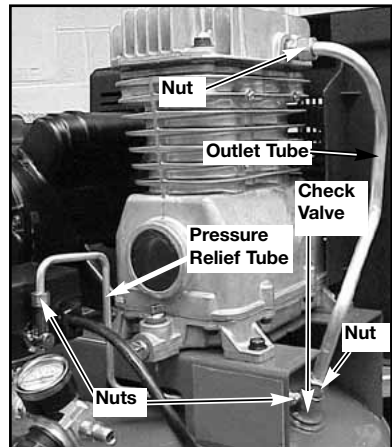
### ⚠ WARNING

Before servicing:

- Unplug or disconnect electrical supply to the air compressor.
- Bleed tank of pressure.
- Allow the air compressor to cool.

### To Replace or Clean Check Valve

1. Release all air pressure from air tank. See “To Drain Tank” in the Maintenance section.
2. Unplug unit.
3. Using an adjustable wrench loosen outlet tube nut at air tank and pump. Carefully move outlet tube away from check valve.
4. Using an adjustable wrench loosen pressure relief tube nut at air tank and pressure switch. Carefully move pressure relief tube away from check valve.
5. Unscrew the check valve (turn counterclockwise) using a 7/8” open end wrench. **Note** the orientation for reassembly.
6. Using a screwdriver, carefully push the valve disc up and down. **NOTE:** The valve disc should move freely up and down on a spring which holds the valve disc in the closed position, if not the check valve needs to be cleaned or replaced.
7. Clean or replace the check valve. A solvent, such as paint or varnish remover can be used to clean the check valve.
8. Apply sealant to the check valve threads. Reinstall the check valve (turn clockwise).
9. Replace the pressure release tube. Tighten nuts.
10. Replace the outlet tube and tighten nuts.
11. Perform the Break-in Procedure. See “Break-in Procedure” in the Operation section.





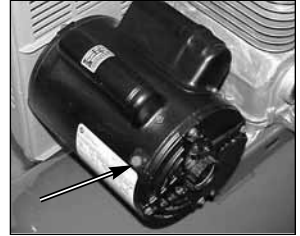
## Motor

This motor has a manual thermal overload protector. If the motor overheats for any reason, the overload protector will shut off the motor. The motor must be allowed to cool down before restarting. To restart:

1. Place the On/Auto/Off lever in the Off position.
2. Allow the motor to cool.
3. Depress the red reset button on the motor.
4. Place the On/Auto/Off lever in the On/Auto position to restart the motor.

**IMPORTANT:** If the overload protector shuts the motor off frequently, check for a possible voltage problem. Low voltage can also be suspected when:

1. The motor does not get up to full power or speed.
2. Fuses blow out when starting the motor; lights dim and remain dim when motor is started and is running.



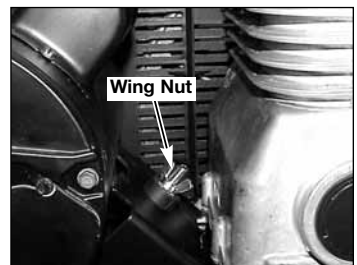
## To Replace Belt

### **⚠ WARNING**

Serious injury or damage may occur if parts of the body or loose items get caught in moving parts.

Never operate the unit with the belt guard removed. The belt guard should be removed only when the compressor is unplugged.

1. Unplug compressor.
2. Remove the front of the belt guard by disengaging the snaps. Insert a flat bladed screwdriver at each snap location and pry the beltguard apart.
3. Loosen the wing nut on hold down plate and tilt motor to allow for easy removal or installation of the belt.
4. Remove belt.
5. Replace belt. **NOTE:** The belt must be centered over the grooves on the fly-wheel and motor pulley.
6. Turn the wing nut on the hold down plate until it makes contact with the washer, plus one additional turn.
7. Replace the belt guard.



## STORAGE

Before you store the air compressor, make sure you do the following:

1. Review the "Maintenance" section on the preceding pages and perform scheduled maintenance as necessary.
2. Set the On/Auto/Off lever to "OFF".
3. Close the globe valve.
4. Remove the air tool or accessory.
5. Open the globe valve and allow the air to slowly bleed from the air tank until tank pressure is approximately 20 psi.
6. Drain water from air tank by opening drain valve (counter-clockwise) on bottom of tank.

### **WARNING**

Water will condense in the air tank. If not drained, water will corrode and weaken the air tank causing a risk of air tank rupture.

7. After the water has been drained, close the drain or drain valve.

**NOTE:** If drain valve is plugged, release all air pressure. The valve can then be removed, cleaned, then reinstalled.

8. Protect the air hose from damage (such as being stepped on or run over).

## TROUBLESHOOTING

### **⚠ WARNING**

Performing repairs may expose voltage sources, moving parts or compressed air sources, moving parts or compressed air sources. Personal injury may occur. Prior to attempting any repairs, unplug the air compressor and bleed off all air tank air pressure.

PROBLEM	CAUSE	CORRECTION
Excessive tank pressure - safety valve pops off.	<p>Pressure switch does not shut off motor when compressor reaches "cut-out" pressure.</p> <p>Pressure switch "cut-out" too high.</p>	<p>Move On/Auto/Off lever to the "OFF" position, if the outfit does not shut off contact a Trained Service Technician.</p> <p>Contact a Trained Service Technician.</p>
Air leaks at fittings.	Tube fittings are not tight enough.	Tighten fittings where air can be heard escaping. Check fittings with soapy water solution. <b>DO NOT OVERTIGHTEN.</b>
Air leaks at or inside check valve	Check valve seat damaged.	A defective check valve results in a constant air leak at the pressure release valve when there is pressure in the tank and the compressor is shut off. Replace check valve. Refer the "To Replace or Clean Check Valve" in the "Operation" section.
Air leaks at pressure switch release valve.	Defective pressure switch release valve.	Contact a Trained Service Technician.
Air leaks in air tank or at air tank welds.	Defective air tank.	<p>Air tank must be replaced. Do not repair the leak.</p> <p style="text-align: center;"><b>⚠ WARNING</b></p> <p>Do not drill into, weld or otherwise modify air tank or it will weaken. The tank can rupture or explode.</p>
Air leaks between head and valve plate.	Leaking seal.	Contact a Trained Service Technician.

<b>PROBLEM</b>	<b>CAUSE</b>	<b>CORRECTION</b>
Knocking Noise.	Possible defect in safety valve.	Operate safety valve manually by pulling on ring. If valve still leaks, it should be replaced.
	Defective check valve.	Remove and clean, or replace.
	Loose pulley	Tighten pulley set screw, 70-80 in.-lbs.
	Loose flywheel	Tighten flywheel screw, 15-20 ft.-lbs.
	Compressor mounting screws loose	Tighten mounting screws, 15-20 ft.-lbs.
	Loose belt	Loosen wingnut and then tighten wingnut until it contacts the washer, plus one turn.
	Carbon build-up in pump	Have checked by a Trained Service Technician.
Compressor is not supplying enough air to operate accessories.	Belt too tight	Loosen wingnut and then tighten wingnut until it contacts the washer, plus one turn.
	Prolonged excessive use of air.	Decrease amount of air usage.
	Compressor is not large enough for air requirement.	Check the accessory air requirement. If it is higher than the SCFM or pressure supplied by your air compressor, you need a larger compressor.
	Hole in hose.	Check and replace if required.
	Check valve restricted.	Remove and clean, or replace.
	Air leaks.	Tighten fittings.
	Restricted air intake filter	Clean or replace air intake filter. Do not operate the air compressor with the filter removed. Refer to the "Air Filter" paragraph in the "Maintenance " section
Loose belt.	Loosen wingnut and then tighten wingnut until it contacts the washer, plus one turn.	

PROBLEM	CAUSE	CORRECTION
Motor will not run.	Motor overload protection switch has tripped	Let motor cool off and overload switch will automatically reset.
	Tank pressure exceeds pressure switch "cut-in" pressure.	Motor will start automatically when tank pressure drops below "cut-in" pressure of pressure switch.
	Extension cord is wrong length or gauge.	Check for proper gauge wire and cord length.
	Check valve stuck open.	Remove and clean, or replace.
	Loose electrical connections.	Check wiring connection inside pressure switch and terminal box area.
	Possible defective motor or starting capacitor.	Have checked by a Trained Service Technician.
	Paint spray on internal motor parts.	Have checked by a Trained Service Technician. Do not operate the compressor in the paint spray area. See flammable vapor warning.
	Pressure release valve on pressure switch has not unloaded head pressure.	Bleed the line by pushing the lever on the pressure switch to the "off" position; if the valve does not open, replace switch.
Fuse blown, circuit breaker tripped.		1. Check fuse box for blown fuse and replace as necessary. Reset circuit breaker. Do not use a fuse or circuit breaker with higher rating than that specified for your particular branch circuit.
		2. Check for proper fuse. You should use a time delay fuse.
		3. Check for low voltage conditions and/or proper extension cord.
		4. Disconnect the other electrical appliances from circuit or operate the compressor on its own branch circuit.

<b>PROBLEM</b>	<b>CAUSE</b>	<b>CORRECTION</b>
Restricted air intake	Dirty air filter.	Clean or replace. See Air Filter paragraph in the Maintenance section.
Excessive belt wear	Loose belt.	Loosen wingnut and then tighten wingnut until it contacts the washer, plus one turn.
	Tight belt.	Loosen wingnut and then tighten wingnut until it contacts the washer, plus one turn.
	Loose pulley.	Have checked by a Trained Service Technician.
	Pulley misalignment.	See Motor Pulley/Flywheel Alignment paragraph in the Maintenance section.
Squealing sound.	Loose belt.	Loosen wingnut and then tighten wingnut until it contacts the washer, plus one turn.
	Compressor pump has no oil.	See Oil-Checking paragraph in the Maintenance section.

# NOTES

## LIMITED WARRANTY

**PORTER-CABLE CORPORATION** warrants to the original purchaser that each new air compressor and service part is free from defects in material and workmanship and agrees to repair or replace under this warranty any defective product or part as follows from the original date of purchase.

**5 YEARS** – Limited warranty on 2-stage oil-free air compressor **pumps** that operate at 1725 RPM and 1 year limited warranty on all other parts.

**3 YEARS** – Limited warranty on oil-lubricated air compressor **pumps** and 1 year limited warranty on all other parts.

**1 YEAR** – Limited warranty on all other air compressor products.

**90 Day** – Service parts

Engine warranties are the responsibility of the engine manufacturer. Warranties of merchandise sold by Porter-Cable which has been manufactured by and identified as the product of another company are the responsibility of the manufacturer of that product.

### **THIS WARRANTY IS NOT TRANSFERABLE AND DOES NOT COVER**

- Products sold damaged or incomplete, sold "as is", sold reconditioned or used as rental equipment.
- Delivery, installation or normal adjustments explained in the owner's manual.
- Damage or liability caused by shipping, improper handling, improper installation, incorrect voltage or improper wiring, improper maintenance, improper modification, or the use of accessories and/or attachments not specifically recommended by PORTER-CABLE for the tool.
- Repairs necessary because of operator abuse or negligence, or the failure to install, operate, maintain and store the product according to the instructions in the owner's manual.
- Damage caused by cold, heat, rain, excessive humidity, corrosive environments and materials, or other contaminants.
- Expendable items that become worn during normal use such as drain valves, fuses, filters, belts, air cleaners, spark plugs, engine oil and pump oil.
- Cosmetic defects that do not interfere with tool functionality.
- Freight costs from customer to Porter-Cable.
- Repair and transportation costs of products or parts determined not to be defective.
- **ANY INCIDENTAL, INDIRECT OR CONSEQUENTIAL LOSS, DAMAGE, OR EXPENSE THAT MAY RESULT FROM ANY DEFECT, FAILURE OR MALFUNCTION OF THE PRODUCT.** Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.
- **IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO ONE YEAR FROM THE DATE OF ORIGINAL PURCHASE.** Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

**WARRANTY SERVICE** is available by delivering or shipping the defective product or part to any Porter-Cable authorized warranty service location. To determine the nearest authorized warranty service location, call the toll free number, 1-888-559-8550, 24 hours a day, 7 days a week. Specific instructions regarding servicing arrangements and scheduling may vary depending on the type and size of the product and the availability of repair parts.

- DO NOT return the defective product to the retailer.
- Retain the original cash register sales receipt as proof of purchase for warranty work.
- Only Air compressors with 60 and 80 gallon tanks will be inspected at the site of installation.
- The customer should contact Porter-Cable directly if the purchaser does not receive satisfactory results from the authorized warranty service center.

**PORTER-CABLE®**

*Porter-Cable Corporation  
4825 Highway 45 North  
P.O. Box 2468  
Jackson, TN 38302-2468  
1-888-559-8550*



## Free Manuals Download Website

<http://myh66.com>

<http://usermanuals.us>

<http://www.somanuals.com>

<http://www.4manuals.cc>

<http://www.manual-lib.com>

<http://www.404manual.com>

<http://www.luxmanual.com>

<http://aubethermostatmanual.com>

Golf course search by state

<http://golfingnear.com>

Email search by domain

<http://emailbydomain.com>

Auto manuals search

<http://auto.somanuals.com>

TV manuals search

<http://tv.somanuals.com>