Model #HDC802000

USE AND CARE GUIDE

80-GALLON STATIONARY AIR COMPRESSOR

Questions, problems, missing parts?
Before returning to the store, call
Husky Customer Service
8 a.m. - 7 p.m., EST, Monday - Friday
9 a.m. - 6 p.m., EST, Saturday

1-888-HD-HUSKY

HUSKYTOOLS.COM

THANK YOU

We appreciate the trust and confidence you have placed in Husky through the purchase of this air compressor. We strive to continually create quality products designed to enhance your home. Visit us online to see our full line of products available for your home improvement needs. Thank you for choosing Husky!

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Safety Information

This manual contains information that is very important 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 symbols.

DANGER: Indicates an imminently hazardous situation which, if not avoided, **WILL** result in **death or serious injury.**

WARNING: Indicates a potentially hazardous situation which, if not avoided, **COULD** result in **death or serious injury.**

CAUTION: Indicates a potentially hazardous situation which, if not avoided, **MAY** result in **minor or moderate injury.**

IMPORTANT: Indicates important information, that if not followed, **MAY** cause damage to equipment.

NOTE: Information that requires special attention.

CALIFORNIA PROPOSITION 65

WARNING: This product can expose you to chemicals, including lead, which are known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

WARNING: Wear eye and mask protection. You can create dust when you cut, sand, drill or grind materials such as wood, paint, metal, concrete, cement, or other masonry. This dust often contains chemicals known to cause cancer, birth defects, or other reproductive harm. Wear protective gear.

GENERAL SAFETY

DANGER: Breathable Air Warning: This compressor/pump is NOT equipped and should NOT be used "as is" to supply breathing quality air. For any application of air for human consumption, you must fit the air compressor/pump with suitable in-line safety and alarm equipment. This additional equipment is necessary to properly filter and purify the air to meet minimal specifications for Grade D breathing as described in Compressed Gas Association Commodity Specification G 7.1, OSHA 29 CFR 1910.134, and/or the Canadian Standards Associations (CSA).

Disclaimer of Warranties: In the event the compressor is used for the purpose of breathing air application and proper in-line safety and alarm equipment is not simultaneously used, existing warranties are void, and the Manufacturer disclaims and liability whatsoever for any loss, personal injury, or damage.

GENERAL SAFETY

- □ Read all manuals included with this product carefully. Be thoroughly familiar with the controls and the proper use of the equipment.
- □ Only persons well acquainted with these rules of safe operation should be allowed to use the compressor.
- □ Tanks rust from moisture build-up, which weakens the tank. Make sure to drain the tank regularly and inspect periodically for unsafe conditions, such as rust formation and corrosion.
- □ Fast moving air will stir up dust and debris which may be harmful. Release air slowly when draining moisture or depressurizing the compressor system.

DANGER: Never attempt to repair or modify a tank! Welding, drilling, or any other modification will weaken the tank, resulting in damage from rupture or explosion. Always replace worn, cracked, or damaged tanks.

CAUTION: See the compressor specification decal for maximum operating pressure. Do not operate with pressure switch or pilot valves set higher than the maximum operating pressure.

IMPORTANT: Drain liquid from the tank daily.

NOTE: The **DANGER, WARNING, CAUTION, IMPORTANT and NOTE** notifications and instructions in this manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that caution is a factor which cannot be built into this product, but must be supplied by the operator.

WORK SAFETY AREA

- □ Keep visitors away from the compressor, and NEVER allow children in the work area.
- □ Before each use, inspect the compressed air system and electrical components for signs of damage, deterioration, weakness, or leakage. Repair or replace defective items before using.
- □ Check all fasteners at frequent intervals for proper tightness.
- □ If the equipment should start to vibrate abnormally, STOP the engine/motor and check immediately for the cause. Vibration is generally a warning of trouble.
- □ To reduce fire hazard, keep the engine/motor exterior free of oil, solvent, or excessive grease.
- □ Never attempt to adjust the ASME safety valve. Keep the safety valve free from paint and other accumulations.

WARNING: Motors, electrical equipment, and controls can cause electrical arcs that will ignite a flammable gas or vapor. Never operate or repair in or near a flammable gas or vapor. Never store flammable liquids or gases in the vicinity of the compressor.

WARNING: An ASME code safety relief valve with a setting no higher than the maximum allowable working pressure (MAWP) MUST be installed in the tank for this compressor. The ASME safety valve must have sufficient flow and pressure ratings to protect the pressurized components from bursting.

WARNING: Never use plastic (PVC) pipe for compressed air. Serious injury or death could result.

WARNING: This compressor is extremely top heavy. The unit must be bolted to the floor with isolation pads before operating to prevent equipment damage, injury, or death.

WARNING: Do not modify this compressor. Do not use or create accessories not recommended for use with this compressor. Alterations and/or modifications are a form of misuse, which could result in a hazardous condition leading to possible personal injury or equipment damage.

CAUTION: Do not use this compressor in an environment where the air is contaminated or dusty. Using the compressor in such an environment may cause equipment damage.

PERSONAL SAFETY

- □ Wear safety glasses and use hearing protection when operating the unit.
- □ Do not stand on or use the unit as a hand hold.
- □ Do not wear loose clothing or jewelry that will get caught in the moving parts of the unit.
- □ Keep fingers away from a running compressor; fast moving and hot parts will cause injury and/or burns. Compressor parts may be hot even if the unit is stopped.

WARNING: Never operate the compressor without a beltguard. This unit can start automatically without warning. Personal injury or property damage could occur from contact with moving parts.

CAUTION: Compressor parts may be hot even if the unit is stopped.

ELECTRICAL SAFETY

- □ Follow all local electrical and safety codes as well as in the United States, the National Electrical Codes (NEC), and Occupational Safety and Health Act (OSHA).
- □ Avoid body contact with grounded surfaces such as pipes, radiators, ranges, and refrigerators. There is an increased risk of electric shock if your body is grounded.
- □ Do not expose power equipment to rain or wet conditions. Water entering the power equipment will increase the risk of electric shock.
- □ Replace damaged cords/wiring immediately. Damaged cords/wiring increase the risk of electric shock.

WARNING: Improper electrical grounding can result in electrical shock. The wiring should be done by a qualified electrician.

CAUTION: Improper electrical installation of this product may void its warranty. Have circuit wiring performed by qualified personnel, such as a licensed electrician who is familiar with the current national and local electrical codes.

SPRAYING PRECAUTIONS

- □ Do not smoke when spraying paint, insecticides, or other flammable substances.
- □ Use a face mask/respirator when spraying and spray in a well ventilated area to prevent health and fire hazards.
- □ Do not direct paint or other sprayed material at the compressor. Locate the compressor as far away from the spraying area as possible to minimize overspray accumulation on the compressor.
- □ When spraying or cleaning with solvents or toxic chemicals, follow the instructions provided by the chemical manufacturer.

WARNING: Do not spray flammable materials in the vicinity of an open flame or near ignition sources including the compressor unit.

Warranty

LIMITED TWO-YEAR WARRANTY

WHAT IS COVERED

From the date of purchase, parts and labor are covered to remedy substantial defects due to material and workmanship during the first year of ownership with the exceptions noted below. From the date of purchase, parts only are covered to remedy substantial defects due to material and workmanship during the second year of coverage with exceptions noted below.

This warranty applies only to the original retail purchaser and may not be transferred. If the compressor is used for commercial, industrial, or rental purposes, the warranty will apply for ninety (90) days from the date of purchase. Two-stage compressors are not limited to a ninety (90) day warranty when used in commercial or industrial applications. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

WARRANTOR: Campbell Hausfeld a Marmon/Berkshire Hathaway Company, 225 Pictoria Drive, Suite 210, Cincinnati, Ohio, 45246.

The responsibilities of the warrantor under this warranty is to repair or replace, at the warrantor's option, this compressor or components which are defective, have malfunctioned, and/or have failed to conform within the duration of the specific warranty period. Repair or replacement will be scheduled and serviced according to the normal work-flow at the servicing location and will depend on the availability of replacement parts.

The responsibilities of the purchaser under this warranty are as follows: a) provide dated proof of purchase and maintenance records; b) call to obtain your warranty service options (freight costs must be borne by the purchaser); c) use reasonable care in the operation and maintenance of the products as described in the owner's manual(s); d) repairs requiring overtime, weekend rates, or anything beyond the standard manufacturer warranty repair labor reimbursement rate; e) time required for any security checks, safety training, or similar for service personnel to gain access to facility; and f) location of unit must have adequate clearance for service personnel to perform repairs and be easily accessible.

WHAT IS NOT COVERED

This warranty does not cover normal wear and tear or any malfunction, failure, or defect resulting from misuse, abuse, neglect, alteration, modification, or repair by other than a service center authorized by the manufacturer to repair this air compressor. Expendable materials, such as motor brushes, seals, etc., are not covered by this warranty. This warranty does not apply to this compressor used in industrial applications or for rental purposes. Husky makes no warranties, representations, or promises as to the quality or performance of its air compressors other than those specifically stated in this warranty.

Implied warranties, including those of merchantability and fitness for a particular purpose, are limited to two years from the date of original purchase by the consumer. Any incidental, indirect, or consequential loss, damage, or expense that may result from any defect, failure, or malfunction of the manufacturer's product is not covered by this warranty. Some states do not allow the exclusion or limitations of incidental or consequential damages, so the above limitation or exclusion may not apply to you. The warranty does not cover any failure that results from an accident, purchaser's abuse, neglect, or failure to operate products in accordance with instructions provided in the owner's manual(s) supplied with compressor.

This warranty does not cover pre-delivery service, i.e. assembly, oil or lubricants, and adjustment. This warranty does not cover items or service that is normally required to maintain the product, i.e. lubricants, filters, gaskets, etc.

Gasoline engines and components are expressly excluded from coverage under this limited warranty. The purchaser must comply with the warranty given by the engine manufacturer which is supplied with the product.

The following items are not covered under this warranty. This warranty excludes these items (pertaining to all compressors) as follows: a) any component damaged in shipment or any failure caused by installing or operating unit under conditions not in accordance with installation and operation guidelines or damaged by contact with tools or surroundings; b) pump or valve failure caused by rain, excessive humidity, corrosive environments, or other contaminants; c) cosmetic defects that do not interfere with compressor functionality; d) rusted tanks, including but not limited to rust due to improper drainage or corrosive environments; e) any components that are considered normal wear items and are not covered after the first year of ownership (the electric motor, check valve, pressure switch, regulator, pressure gauges, hose, tubing, pipe, fittings and couplers, screws, nuts, hardware items, belts, pulleys, flywheel, air filter and housing, gaskets, seals, oil leaks, air leaks, oil consumption or usage, piston rings); f) the tank drain valves; g) damage due to incorrect voltage or improper wiring; h) other items not listed but considered general wear parts; i) pressure switches, air governors, load/unload devices, throttle control devices, and safety valves modified from factory settings; j) damage from inadequate filter maintenance; and k) induction motors operated with electricity produced by a generator.

The following items are not covered under this warranty. This warranty excludes these items (specific to lubricated compressors) as follows: a) pump wear or valve damage caused by using oil not specified; b) pump wear or damage caused by any oil contamination; and c) pump wear or damage caused by failure to follow proper oil maintenance guidelines, operation below proper oil level, or operation without oil.

Labor, service calls, or transportation charges after the first year of ownership are not covered on stationary air compressors. Stationary air compressors are defined as those units not including a handle or wheels.

This Limited Warranty applies in the U.S., Canada, and Mexico only. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

How to get service: Call 1-888-43-HUSKY or visit www.HUSKYTOOLS.com.

Pre-Installation

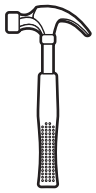
PLANNING INSTALLATION

It is extremely important to install the compressor in a clean, well ventilated area where the surrounding air temperature will not be more than 100°F. Provide a minimum clearance of 18 in. between the compressor flywheel or fan and the wall, and ensure clear access to the drain valve to facilitate condensate drainage. Do not locate the compressor air inlet near steam, paint spray, sandblast areas, or any other source of contamination.

WARNING: Disconnect, tag, and lock out the power source before attempting to install or relocate the compressor.

IMPORTANT: This compressor is not intended for outdoor installation.

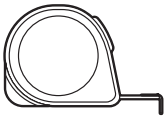
TOOLS REQUIRED


Claw Hammer

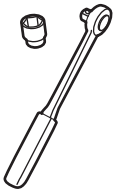

Safety Goggles


Phillips Screwdriver

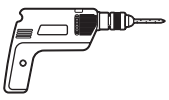

Flathead Screwdriver

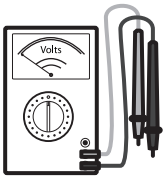

Measuring Tape


Adjustable Wrenches (2)


Ratchet and
1/2 in. Socket
1/1/4 in. Socket
9/16 in. Socket


Pipe Wrench

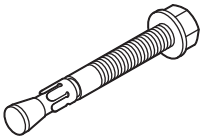

Hammer Drill and Masonry Bit

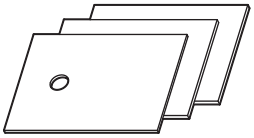


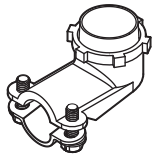
Voltage Meter

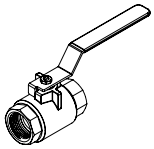

Work Gloves

HARDWARE REQUIRED (Not supplied with unit)


Concrete Wedge Anchors

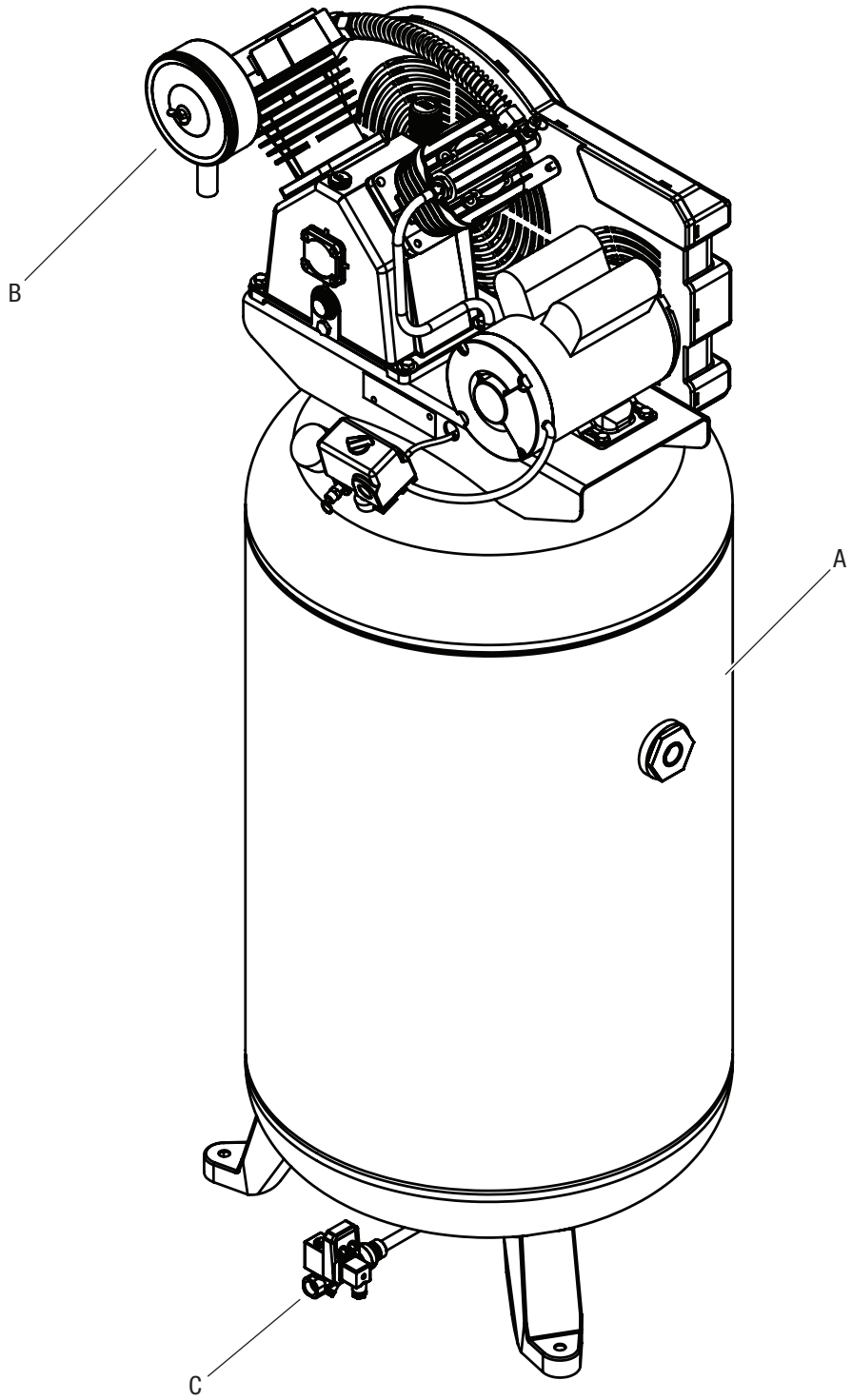

Vibration Isolation Set (3 pads)


Strain Relief


Isolation Valve (3/4 in.)


Nipple (3/4 in.)

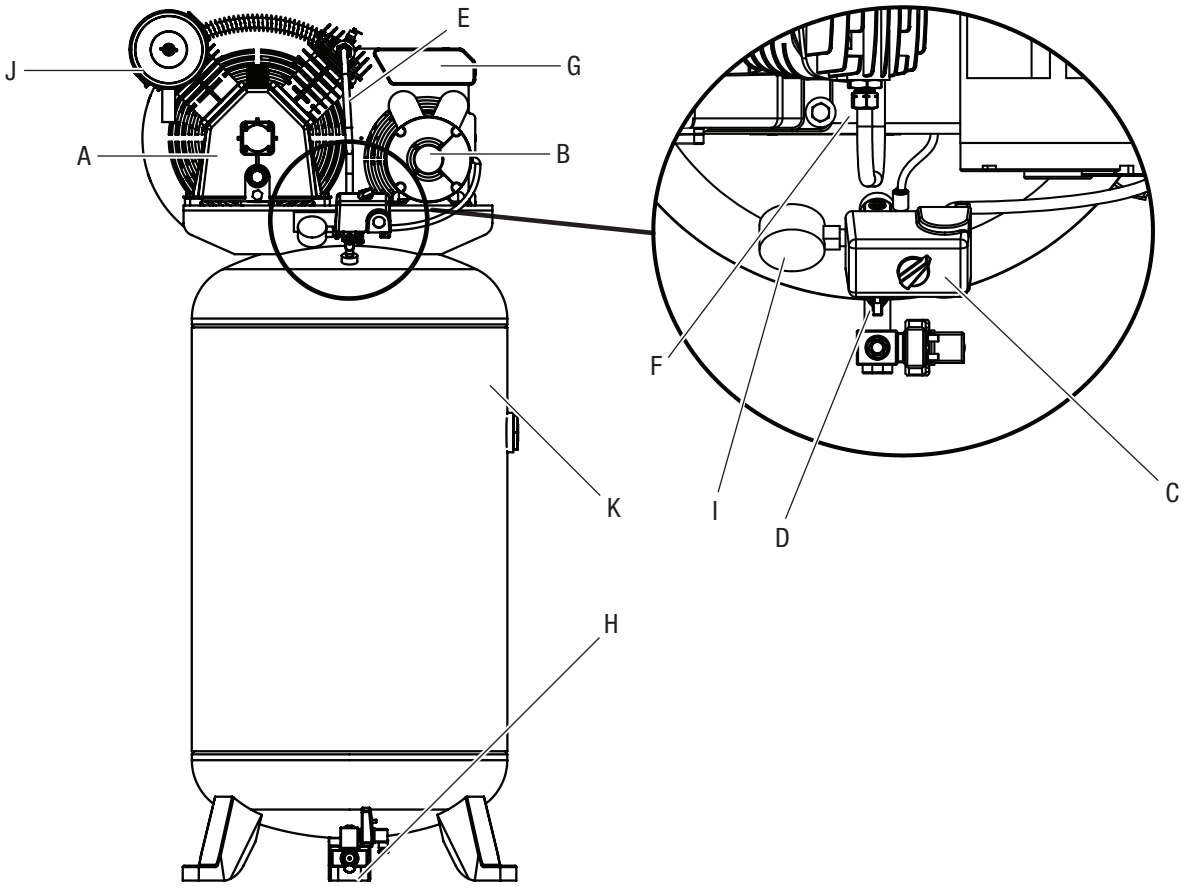
NOTE: Hardware not shown to actual size.



Part	Description	Quantity
A	Air Compressor Unit	1
B	Air Filter Assembly	1
C	Electronic Drain Assembly	1

Pre-Installation

COMPRESSOR COMPONENTS



Part	Description
A	**Pump -** 2-stage compressor efficiently generates compressed air.
B	**Motor -** Electric induction drive that provides the power to spin the pump.
C	**Pressure Switch** (AUTO/OFF Switch) **-** In the AUTO position, the compressor shuts off automatically when the tank pressure reaches the maximum preset pressure. After air is used from the tank and drops to a preset low level, the pressure switch automatically turns the motor back on. In the OFF position, the compressor will not operate. This switch should be in the OFF position when connecting or disconnecting the power from the unit. When the pressure switch turns the motor off you will hear air leaking out of the pressure switch unloader valve for a short time. This releases the air pressure from the discharge tube and allows the compressor to restart easier.
D	**ASME Safety Valve -** This valve automatically releases air if the tank pressure exceeds the preset maximum.
E	**Discharge Tube -** This tube carries compressed air from the pump to the check valve. This tube becomes very hot during use. To avoid the risk of severe burns, never touch the discharge tube.
F	**Check Valve -** One-way valve that allows air to enter the tank, but prevents air in the tank from flowing back into the compressor pump.
G	**Belt Guard -** Covers the belt, motor pulley, and flywheel.
H	**Drain Valve -** Use this valve to drain moisture from the tank daily to reduce the risk of corrosion.
I	**Tank Pressure Gauge -** Indicates the amount of air pressure stored in the tank.
J	**Air Filter -** Keeps large particulates out of the air flowing into the compressor.
K	**Tank Outlet/Discharge Port -** Air delivery port for transfer of compressed air.

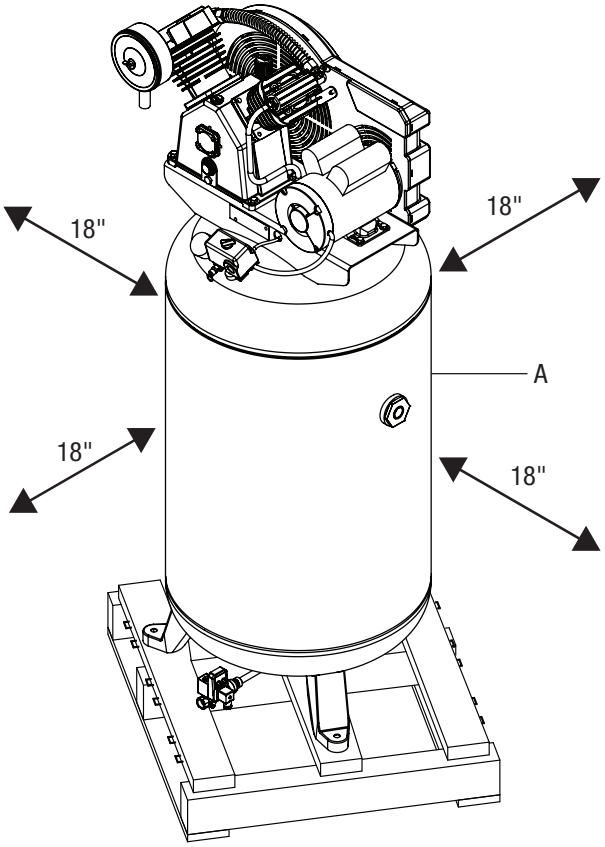
SPECIFICATIONS

Horsepower (HP)	5
Pump Type	2-Stage Oil Lubricated
Voltage	230/240 Volts, 22.0 Amps 60 Hz, 1 Phase
Air Delivery @ 175 psi	12.8 CFM
Air Delivery @ 90 psi	13.4 CFM
Air Delivery @ 40 psi	13.8 CFM
Max. Air Pressure	175 psi
Pump-up Time (0-175 psi)	9 Minutes, 30 Seconds
Recovery Time (145-175 psi)	About 75 Seconds

Tank Outlet Size	3/4 in. NPT
Oil Capacity	Approximately 54 ounces
Depth	22 in.
Width	27.5 in.
Height	69.6 in.
Shipping Weight	270 lbs

PREPARING FOR INSTALLATION

- □ Unbolt the air compressor unit (A) from the shipping skid. Use a ratchet with a 1/2 in. socket.
- □ Remove the air compressor unit (A) from the skid. This requires at least two people - one person to “walk” the unit off the skid and one to help maintain balance so the unit does not topple. Place the air compressor unit (A) where you plan to install it (at least 18 in. from any wall or surface).



WARNING: Disconnect, tag, and lock out power source, and then release all pressure from the system before attempting to install, service, relocate, or perform any maintenance.

WARNING: This compressor is extremely top heavy. Enlist additional help to remove it from the shipping skid.

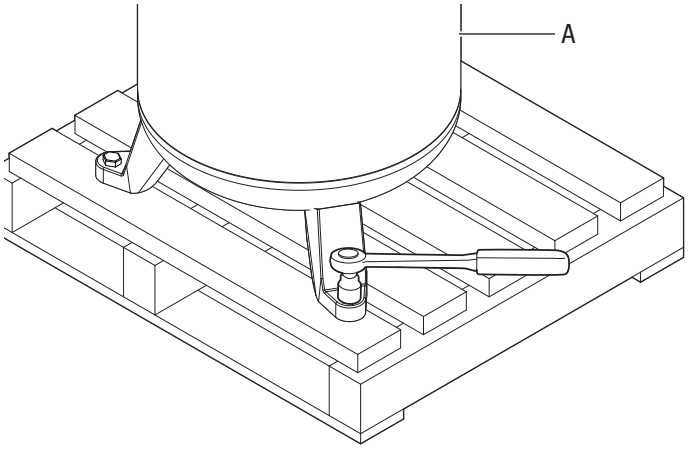
CAUTION: Never use the shipping skid for mounting the compressor.

IMPORTANT: Provide a minimum clearance of 18 in. between the compressor flywheel or fan and the wall, and ensure clear access to the drain valve to facilitate condensate drainage.

IMPORTANT: It is extremely important to install the compressor in a clean, well ventilated area where the surrounding air temperature will not be more than 100 °F.

IMPORTANT: Do not locate the compressor air inlet near steam, paint spray, sandblast areas, or any other source of contamination.

IMPORTANT: This compressor is not intended for outdoor installation.



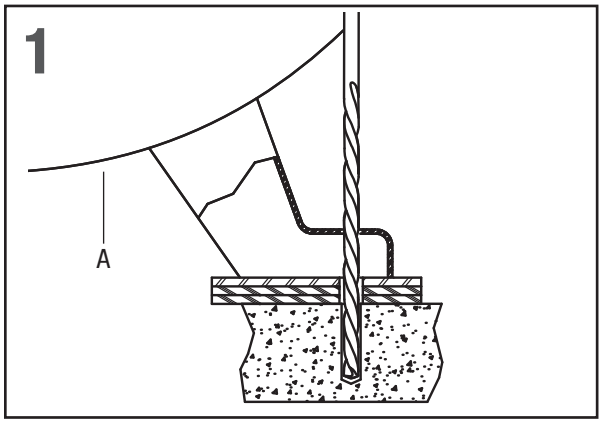
ANCHORING THE AIR COMPRESSOR

WARNING: This compressor is extremely top heavy. The unit must be bolted to the floor with isolation pads before operating to prevent equipment damage, injury, or death.

- □ Place the air compressor in a clean, dry, and well ventilated area.
- □ The air compressor must be positioned at least 18 in. away from the wall or other obstructions that will interfere with the air flow.
- □ Locate the air compressor as close to the main power supply as possible to avoid using long lengths of electrical wiring.
- □ The air filter must be kept clear of obstructions which could reduce the air flow to the air compressor.

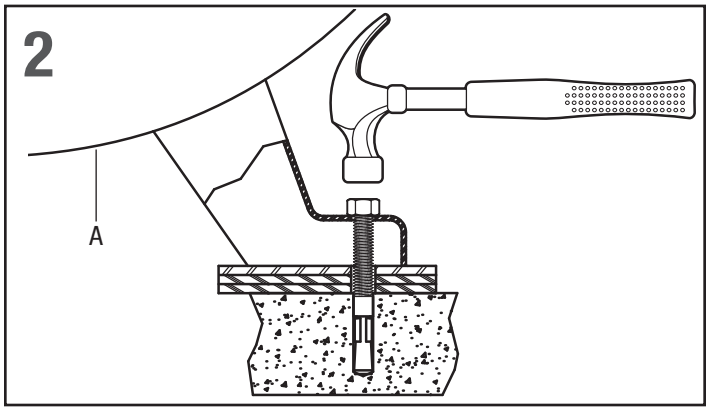
1 Drilling the mounting holes

- □ Place one vibration pad under each air compressor unit (A) foot to avoid unnecessary vibration which could damage the air compressor unit (A).
- □ Using the mounting holes, center the vibration pad so it fully supports each leg. Drill holes through the pad into the concrete using a 3/8 in. masonry bit. Holes drilled must be at least as deep as the concrete wedge anchors being used.



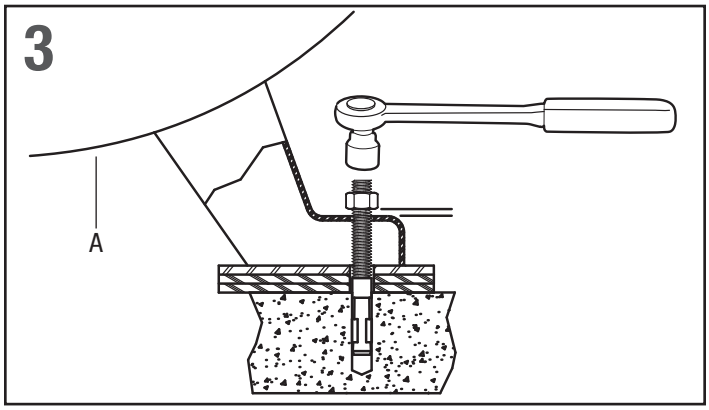
2 Inserting the mounting bolts

- □ Insert the mounting bolts into the drilled holes.
- □ Place a washer on each bolt. Thread a nut onto each bolt until the top of the nuts and bolts are flush.
- □ Strike the bolt heads with a hammer until the nuts and washers are sitting on top of the air compressor unit (A) foot.



3 Setting the mounting bolts

- □ Tighten the nuts using a ratchet with a 9/16 in. socket until the anchors are set.
- □ Use the installation torque specifications of the bolt (provided by the bolt manufacturer).
- □ Loosen the nuts to leave a 1/16 in. (1.6 mm) gap for stress relief during the air compressor unit (A) operation.

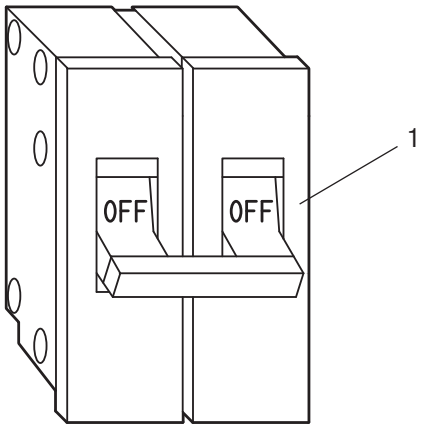


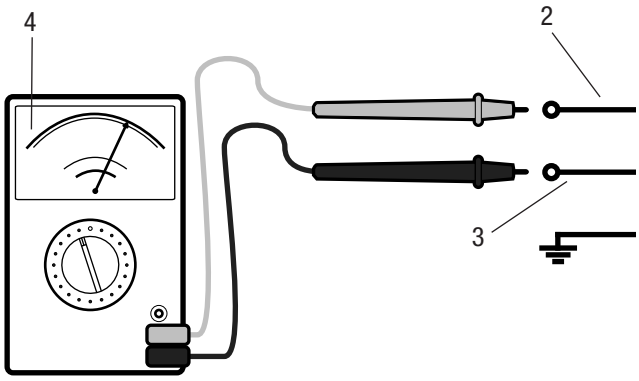
1 Preparing for installation

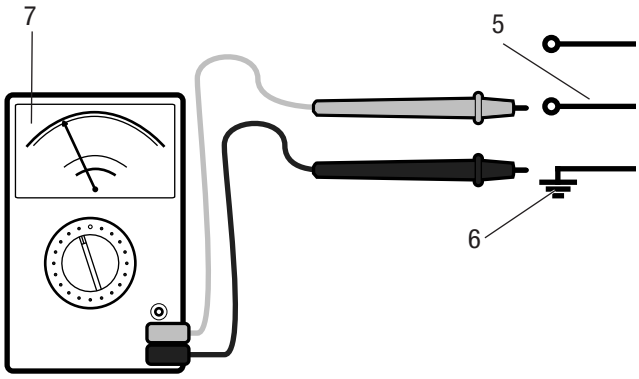
This product must be grounded. For units that do not have a factory installed cord, install permanent wiring from the electrical source to the pressure switch with a ground conductor connected to the grounding screw on the pressure switch. A properly sized cord with a ground conductor and plug may also be installed by the user.

Local electrical wiring codes differ from area to area. Source wiring and protector must be rated for at least the amperage and voltage indicated on the motor nameplate, and meet all electrical codes for this minimum. The minimum wire size should also meet all electrical codes, and wiring used up to 75 ft. long must be 10 AWG. Use a slow-blow fuse type T or a 240-Volt double-pole circuit breaker (1).

- □ Confirm the voltage of the incoming mains (2,3) using a voltage meter (4).
- □ The voltage meter should read 230 / 240 Volts. Do not proceed with installation if the voltage meter gives a different reading.
- □ Confirm the voltage of the incoming mains (5) and ground wire (6) using a voltage meter (7).
- □ The voltage meter should read 120 Volts. Do not proceed with installation if the voltage meter gives a different reading.
- □ The electronic drain valve requires a 120-Volt outlet to plug into.







DANGER: Improperly grounded motors are shock hazards. Make sure all the equipment is properly grounded.

WARNING: All wiring and electrical connections must be performed by a qualified electrician familiar with industrial motor controls. Installation must be in accordance with local and national codes.

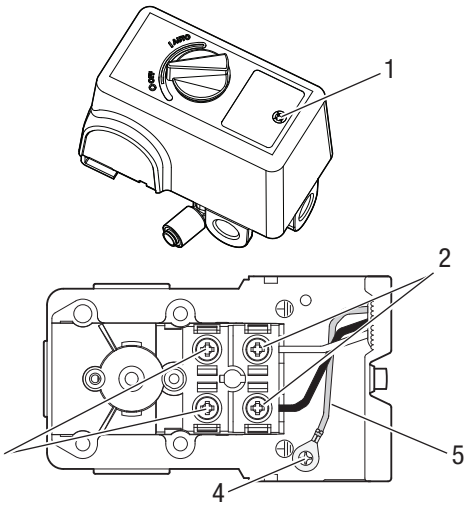
WARNING: Disconnect, tag, and lock out the power source, and then release all pressure from the system before attempting to install, service, relocate, or perform any maintenance.

WARNING: Overheating, short circuiting, and fire damage will result from inadequate wiring.

IMPORTANT: Damage to the motor from improper electrical voltage or connection will void the warranty.

2 Preparing the pressure switch

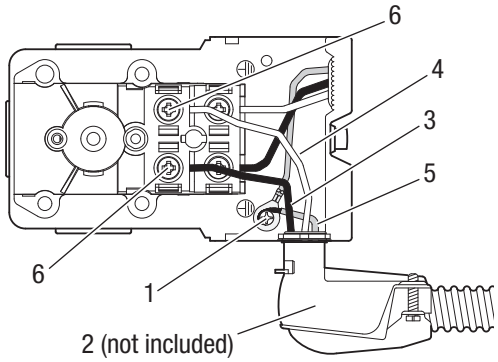
- □ Remove the pressure switch cover by loosening the screw (1), as shown. Use a Phillips screwdriver.
- □ Set the cover aside until wiring is completed.
- □ Familiarize yourself with these internal components of the pressure switch.
- □ Refer to the illustration to identify the motor terminals (2), line terminals (3), ground screw (4), and ground line (5).



3 Making the electrical connections

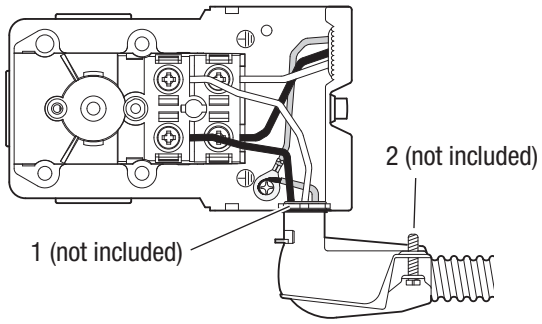
60 and 80 gallon compressors do not include electrical cord or strain relief.

- □ Remove the ground screw (1). Install the strain relief on the pressure switch (2). Do not tighten the strain relief on the power cord until wiring is complete. Insert the bare black (3), white (4), bare/green (5) wires.
- □ Attach the bare/green ground wire (5) first to the ground screw (1) on the pressure switch body.
- □ Look for the “Line” markings on the pressure switch. Install the line wires (3, 4) and tighten the terminal screws (6).



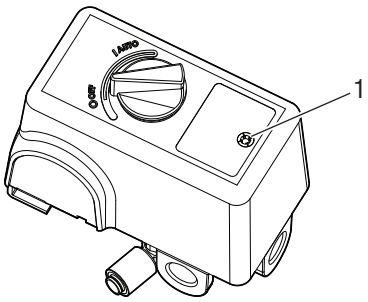
4 Securing the strain relief

- □ Tighten the strain relief nut (1). Place a flathead screwdriver into the raised notch, and tap the screwdriver with a hammer until tight.
- □ Tighten the strain relief screws (2) to hold the power cord securely.



5 Reinstalling the pressure switch cover

- □ Replace the pressure switch cover. The knob must be in the same position as when removed to sit correctly in place.
- □ Tighten the pressure switch screw (1) with a Phillips screwdriver. Check that the switch is in the OFF position. Follow the break-in procedure from the owner’s manual.

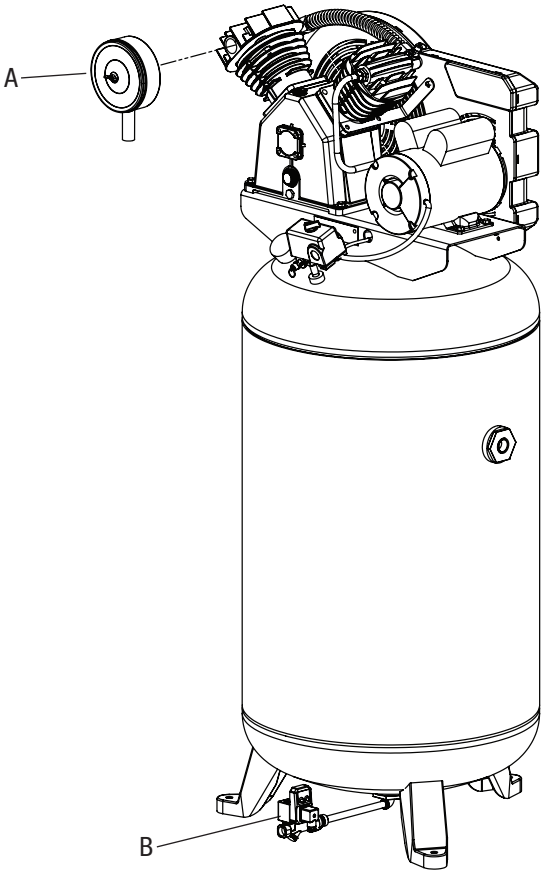


1 Assembling the air compressor unit

This air compressor unit can be installed as part of an air distribution system. Any tube, pipe, or hose used in an air distribution system must have a pressure rating higher than 175 psi. The minimum recommended pipe size is 1/2 in. diameter. Using a larger diameter pipe is always better.

Install a shut-off valve on the discharge port of the tank to control the air flow out of the tank. Locate the valve between the tank and any piping system.

□ Screw the air filter (A) onto the pump air intake.



WARNING: Never use plastic (PVC) pipe for compressed air. Serious injury or death could result.

WARNING: Never install a shut-off valve between the compressor pump and the tank. Personal injury and/or equipment damage may occur. Never use reducers in discharge piping.

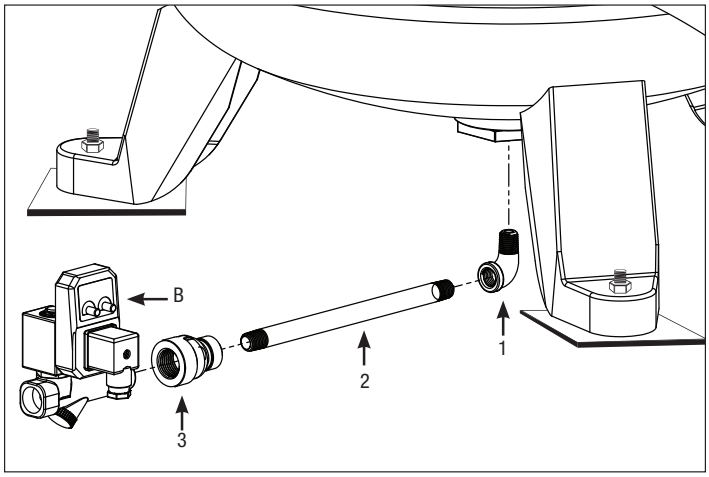
NOTE: Do not overtighten. Over the life of the unit, you will clean or replace the filter as needed.

WARNING: Disconnect, tag, and lock out the power source, and then release all pressure from the system before attempting to install, service, relocate, or perform any maintenance.

NOTE: Thread sealant tape should be used on all threaded connections.

Ref. No.	Description	Part Number	Qty.
1	1/4 in. - 18 90° Street Elbow	ST071211AV	1
2	1/4 in. x 8 in. Nipple	ST070369AV	1
3	1/2 in. NPT to 1/2 in. NPT Reducer	ST175000AV	1
B	Automatic Tank Drain	D-141100AV	1

2 Install the automatic tank drain (B)



□ Remove existing 1/4 in. drain valve from the bottom of the tank.

□ Install 1/4 in. NPT street elbow (1).

□ Install 1/4 in. NPT x 8 in. pipe nipple (2).

□ Install 1/2 in. x 1/4 in. reducing bell fitting (3).

Assembly (continued)

3 Install the automatic tank drain (continued)

- □ Verify direction of water and air flow through the valve and install with the inlet side nearest to the tank.

  Install automatic valve confirming direction of air and water flow.

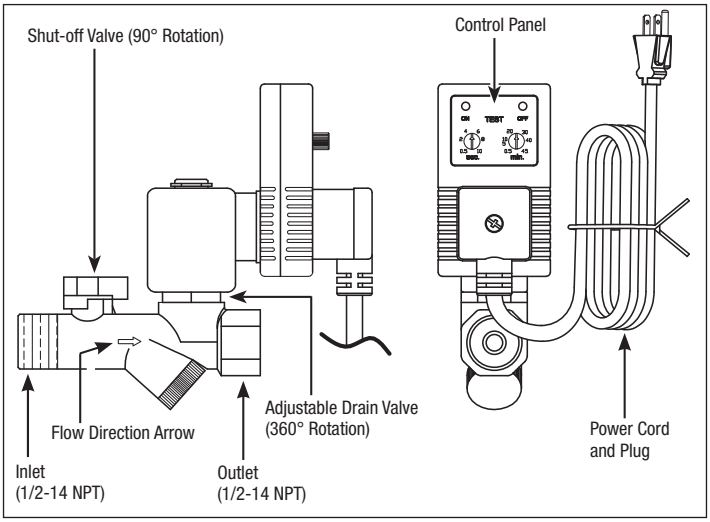
- □ Plug in to 120V outlet.

- □ Perform a manual test to verify operation by pressing the test button on the valve.

- □ Adjust cycle time to the middle of each scale. Monitor periodically during use and adjust the cycle so that all the water is drained from the tank and a minimum of compressed air is vented.

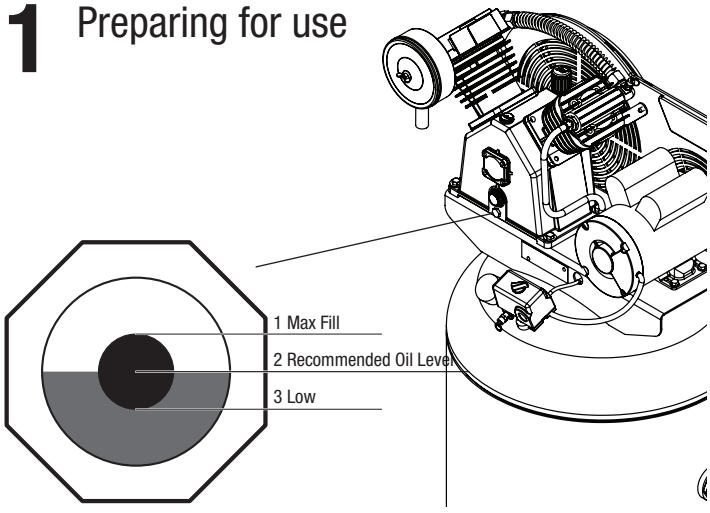
NOTE: Any tubing or hose connected to the outlet of the drain valve must be secured to not allow uncontrolled movement during operation.

Figure 3 - Unit Parts Identification



Operation

1 Preparing for use



- □ Use the sight glass on the pump to determine the oil level.
- □ Add oil to the pump if the oil level is low (3).

CAUTION: Check for proper oil level before operating!

NOTE: The pump oil level is max oil level (1), and the middle of circle is recommended oil level (2).

NOTE: Use SAE 30 industrial grade full synthetic motor oil like Mobil 1® 10W30.

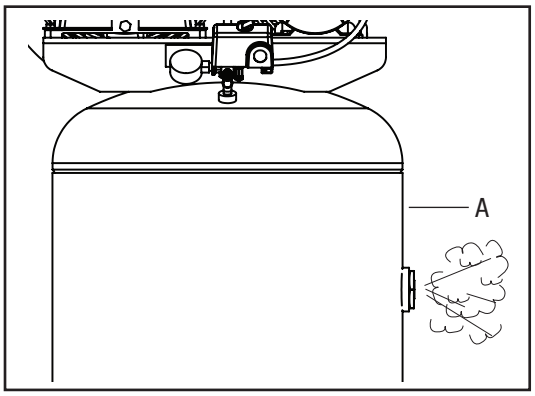
NOTE: Do not exceed the maximum oil capacity of approximately 54 ounces.

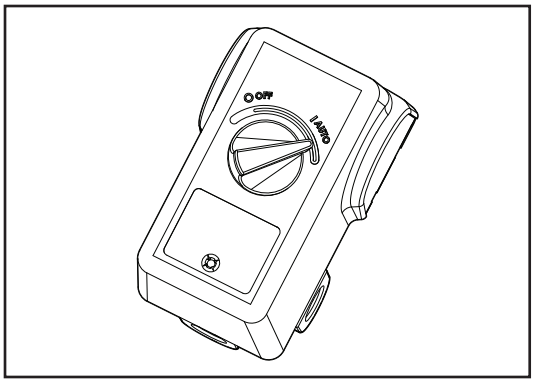
NOTE: Do not use regular automotive oil. Additives in regular motor oil can cause valve deposits and reduce pump life.

NOTE: For maximum pump life, drain and replace oil after the first 50 hours of run time.

2 Starting up and breaking in the compressor

- □ Return power to the air compressor unit (A) from the main.
- □ Leave outlet port open to atmosphere (1). The tank will not readily build up any pressure.
- □ Move the pressure switch to the AUTO position to run the air compressor unit (A).
- □ Run the air compressor unit (A) for thirty (30) minutes at zero (0) psi (under no load) to break in the pump parts.
- □ Move the pressure switch lever or knob to the OFF position, and attach the tank outlet to the air distribution system. The air compressor unit (A) is now ready for use.





ON/OFF CYCLING OF THE COMPRESSOR

The air compressor unit (A) is designed to cycle on and off. With the pressure switch knob in the AUTO position, the compressor pumps air into the tank. When the shut-off (preset "cut-out") pressure is reached, the compressor automatically shuts off.

If the compressor is left in the AUTO position and air is depleted from the tank by use of a tire chuck, tool, etc., the compressor will restart automatically at its preset "cut-in" pressure. When a tool is in use, the compressor will cycle on and off automatically as needed to maintain air pressure in the tank.

MOISTURE IN COMPRESSED AIR

Moisture in compressed air will form into droplets as it comes from an air compressor pump. When humidity is high or when a compressor is in continuous use for an extended period of time, this moisture will collect in the tank. When using a paint spray or sandblast gun, this water will be carried from the tank through the hose, and out of the gun as droplets mixed with the spray material.

Follow the tank draining instructions in the Maintenance section of this manual.

WARNING: Do not attach air tools to the open end of the hose until start-up is completed and the unit checks okay.

WARNING: Never disconnect threaded joints with pressure in the tank!

WARNING: Drain the tank every day to prevent corrosion and possible injury due to tank damage.
For optimal performance of the manual tank drain, the tank pressure should be between 40-50 psi. Do not operate the manual drain with more than 40 psi in the tank or the drain valve may be damaged. Drain the tank of moisture daily using the manual drain valve or by installing the electric drain at the bottom of the tank.

IMPORTANT: This condensation will cause water spots in a paint job, especially when spraying other than water based paints. If sandblasting, it will cause the sand to cake and clog the gun, rendering it ineffective. A filter in the air line, located as near to the gun as possible, will help eliminate this moisture.

IMPORTANT: Drain liquid from the tank daily.

Maintenance

All repairs should be performed by an authorized service representative.

1 Checking and changing the oil

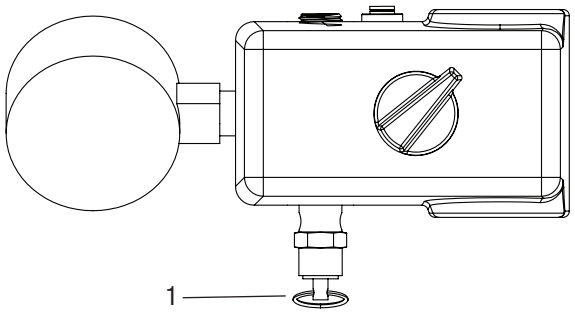
Maintain the proper oil level by checking the oil sight glass (1) daily. Change the oil in the pump every 3 months. Use the following procedure to change (or add) oil.

- □ Run the compressor for ten minutes to warm up the oil if the unit has not been in use for an extended period of time.
- □ Turn the compressor off and disconnect the compressor from the power source.
- □ Position a pan under the pump drain plug (2) to catch the oil.
- □ Remove the pump drain plug (2) and allow the oil to collect in the pan.
- □ Reinsert the oil drain plug. Remove the oil fill cap (3) from the pump. Pour new, unused oil into the pump. Do not overfill.
- □ Reinsert the oil fill cap (3) into position. Return power to the compressor for use.

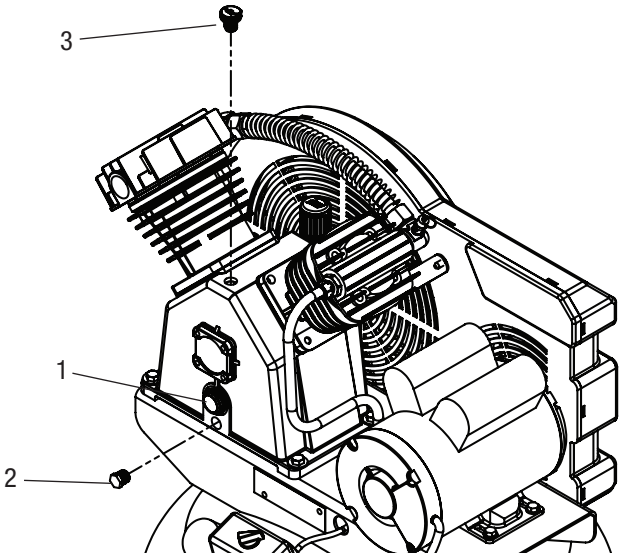
2 Checking the ASME safety valve

- □ Run the air compressor until it reaches cut-out pressure.
- □ Turn the compressor off and disconnect the compressor from the power source.
- □ Put on safety glasses. Protect yourself from fast moving air.
- □ Pull on the ring of the ASME safety valve (1). This releases pressure from the tank. The safety valve should automatically close at approximately 40 - 50 psi.

If the safety valve does not allow air to be released when you pull on the ring, or if it does not close automatically, it MUST be replaced.

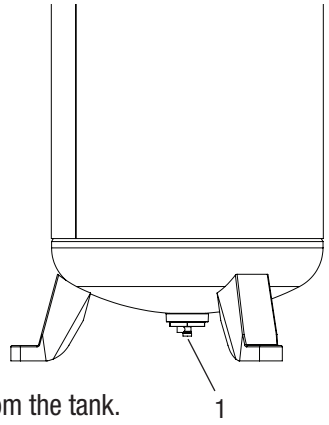


WARNING: Disconnect, tag, and lock out power source, and then release all pressure from the system before attempting to install, service, relocate, or perform any maintenance.



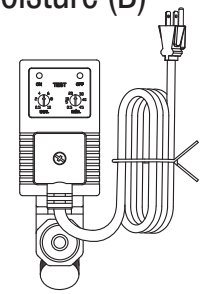
3 Manually draining the tank of moisture (A)

- □ Turn the compressor off and disconnect it from the power source.
- □ Release the pressure from the compressor by pulling on the ASME safety valve. The ASME safety valve should close at approximately 40 - 50 psi.
- □ Open the drain valve (1) underneath the tank. Remaining air pressure will assist in removing moisture from the tank.



Electronically draining the tank of moisture (B)

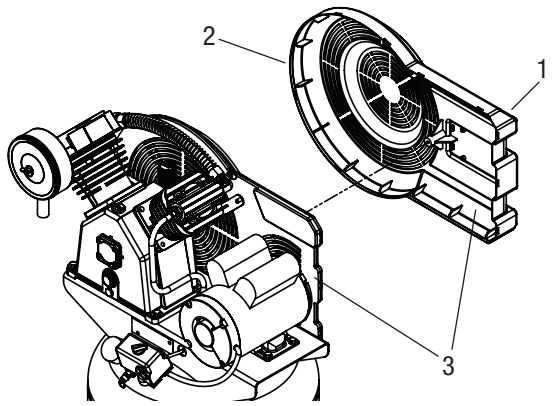
- □ Perform manual test to verify operation.
- □ Adjust cycle time to the middle of each scale. Monitor periodically during use and adjust the cycle so that all the water is drained from the tank and a minimum of compressed air is vented.



NOTE: Any tubing or hose connected to the outlet of the in valve must be secured to not allow uncontrolled movement during operation.

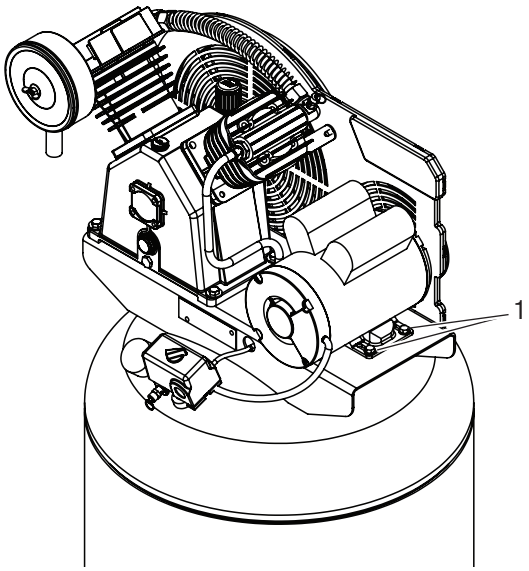
4 Checking the belt

- □ Remove the beltguard screw (1).
- □ Remove the front beltguard (2). The beltguards are held together by pressure snap-latches (3). Wedge a flathead screwdriver between the beltguards at the snap-latches.
- □ Wedge a screwdriver at the other snap-latch junctions. Twist and separate the snap-latches until the front beltguard comes completely off.
- □ If the belt appears to be in working order and has no signs of damage, return the front beltguard to the original position and snap it back in place. Tighten the beltguard screw.
- □ If the belt needs to be replaced, move on to the next step.
- □ If the belt does not need to be replaced, move to step 6



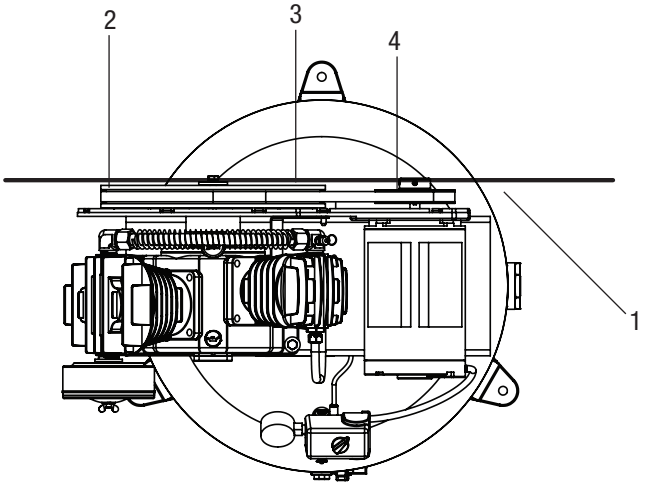
5 Removing the belt

- □ Loosen (but do not remove) the four bolts (1) holding the motor in place.
- □ Shift the motor towards the pump. The belt should be slack and easily removable.
- □ Replace the belt.
- □ Move the motor back to the original position to create belt tension.
- □ Tighten the motor bolts.



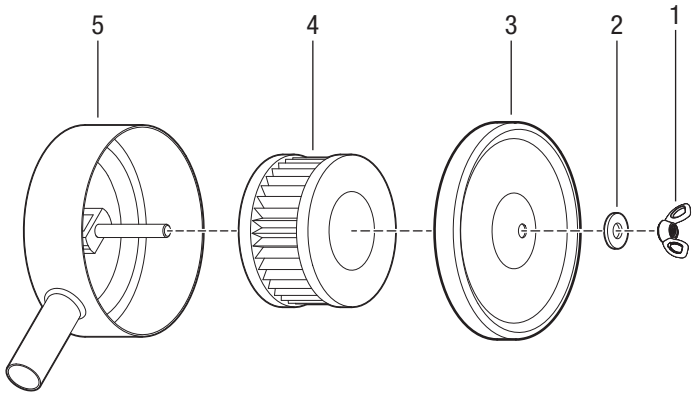
6 Aligning/tensioning the belt

- □ Lay a straightedge (1) against the face of the flywheel touching the rim at two places (2,3).
- □ Adjust the flywheel or motor pulley so that the belt (4) runs parallel to the straightedge. Use a gear puller to move the pulley on the motor shaft. Tighten the setscrew after the pulley is positioned.
- □ Adjust the motor's distance from the pump if needed.
- □ Belt tension is determined by how much the belt moves when weight is applied. The belt should move no more than 3/8 to 1/2 in. downward if normal thumb pressure is placed on it.
- □ Tighten the motor bolts once the proper belt tension is achieved.
- □ Reattach the belt guard.



7 Checking the air filter

- □ Remove the wing nut (1) and the washer (2).
- □ Remove the air filter cover (3) from the air filter base (5).
- □ Remove and inspect the air filter element (4).
- □ If the air filter element is dirty, replace it. Install a new filter element. If the air filter element is clean, reinstall it.
- □ Reattach the air filter cover (3).
- □ Reattach the washer (2) and the wing nut (1). Do not overtighten the wing nut as this maintenance process will be repeated regularly. The wing nut (1) should be snug enough to hold the air filter cover (3) in place.



MAINTENANCE SCHEDULE

Operation	Daily	Weekly	Monthly	Every 3 Months
Check Oil Level	X			
Drain Tank	X			
Check Air Filter		X		
Check Safety Valve		X		
Clean Unit			X	
Check Belt Tension			X	
Change Oil				X

Care and Cleaning

- □ Keep all surfaces clear of debris and dirt.
- □ Do not attempt to clean the unit while running. Turn off the unit, disconnect it from the mains, and allow the unit to cool down.
- □ Check the air filter weekly to see if it needs to be cleaned. Remove the filter element. Use hot, soapy water to clean the filter and allow the filter to dry before reinstalling and returning the unit to active duty. Replace a filter that cannot be cleaned.

WARNING: Disconnect, tag, and lock out the power source, and then release all pressure from the system before attempting to install, service, relocate, or perform any maintenance**.**

IMPORTANT: Change the oil after the first fifty (50) hours of operation. Then perform oil changes every three (3) months.

Notes

Troubleshooting

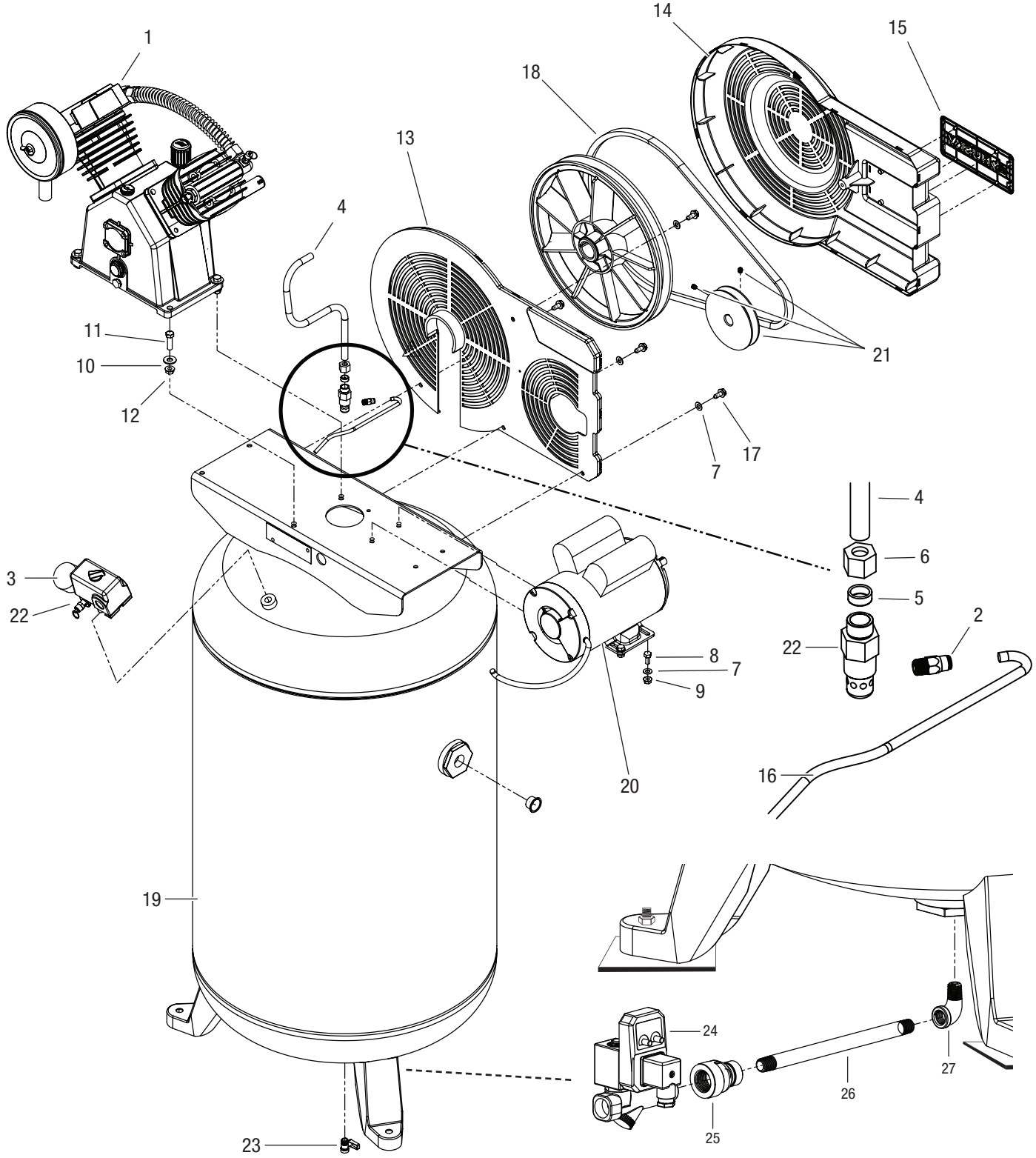
Problem	Possible Cause	Solution
The discharge pressure is low.	□ The air demand exceeds the pump capacity.	□ Reduce the air demand or use a compressor with more capacity.
	□ The air intake is restricted.	□ Clean or replace the air filter element.
	□ There are air leaks in the fittings, tubing on the compressor, or the plumbing outside the unit.	□ Listen for escaping air. Apply soap solution to all fittings and connections. Bubbles will appear at points of leakage. Tighten or replace leaking fittings or connections. Use pipe thread sealant.
	□ There are blown gaskets.	□ Replace any gaskets proven faulty on inspection.
	□ There are leaking or damaged valves.	□ Remove the head and inspect for valve breakage, misaligned valves, damaged valve seats, etc. Replace defective parts and reassemble. Install a new head gasket each time the head is removed.
The air compressor unit is making excessive noise (a knocking sound).	□ The motor pulley or the flywheel is loose.	□ Tighten the pulley / flywheel clamp bolts and the setscrews.
	□ The fasteners on the pump or the motor are loose.	□ Tighten the fasteners.
	□ There is no oil in the crankcase.	□ Check for proper oil level; if the oil level is low, check for possible damage to the bearings. Dirty oil can cause excessive wear.
	□ The connecting rod is worn.	□ Replace the connecting rod. Maintain the oil level and change the oil more frequently.
	□ The piston pin bores are worn.	□ Remove the piston assemblies from the compressor and inspect for excess wear. Replace the excessively worn piston pin or pistons, as required. Maintain the oil level and change the oil more frequently.
	□ The piston is hitting the valve plate.	□ Remove the compressor head and the valve plate and inspect for carbon deposits or other foreign matter on the top of the piston. Replace the head and the valve plate using the new gasket. See the Lubrication section for the recommended oil type.
	□ There is a noisy check valve in the compressor system.	□ Replace the check valve. Do not disassemble the check valve with air pressure in the tank.
There is a large quantity of oil in the discharge air. In an oil lubricated compressor there will always be a small amount of oil in the air stream.	□ The piston rings are worn.	□ Replace with new rings. Maintain the oil level and change the oil more frequently.
	□ The compressor's air intake is restricted.	□ Clean or replace the filter. Check for other restrictions in the intake system.
	□ There is excessive oil in the compressor.	□ Drain oil down to the correct full level.
	□ The oil viscosity is wrong.	□ Only use Mobil 1® 10W-30 or SAE 30 industrial grade compressor oil.
There is water in the discharge air/tank.	□ This is normal during operation. The amount of water increases with humid weather.	□ Drain the tank more often. At least daily during use. □ Add a filter to reduce the amount of water in the air line.
The pressure switch does not release air when the unit shuts off.	□ The unloader valve on the pressure switch is malfunctioning.	□ Replace the unloader valve if it does not release the pressure for a short period of time when the unit shuts off. Do not disassemble the check valve with air pressure in the tank.
	□ The hole to the unloader line on the check valve is plugged.	□ Check for debris in the unloader line or check the valve that could block air flow. Do not disassemble the exhaust tube or unloader tube with air pressure in the tank.

Troubleshooting (continued)

Problem	Possible Cause	Solution
The motor hums and runs slowly, or the motor does not run at all.	□ The voltage is low.	□ Check incoming voltage. It should be approximately 230 volts. The motor will not run properly on less than 208 volts. Low voltage could be due to wires (from electrical source to compressor) being too small in diameter and / or too long. Have a qualified electrician check these conditions and make repairs as needed.
	□ There are too many devices on the same circuit.	□ Limit the circuit to the use of the compressor only.
	□ The electrical connections are loose.	□ Check all the electrical connections.
	□ The pressure switch is malfunctioning - the contacts will not close.	□ Replace the pressure switch.
	□ The check valve is malfunctioning.	□ Replace the check valve. Do not disassemble the check valve with air pressure in the tank.
	□ The unloader valve on the pressure switch is defective.	□ Replace the unloader valve.
	□ The motor capacitor(s) are defective.	□ Replace the capacitor(s).
	□ The motor is defective.	□ Replace the motor.
The reset mechanism cuts out repeatedly or the circuit breaker trips repeatedly.	□ There is not proper ventilation for the air compressor unit, or the room temperature too high.	□ Move the compressor to a well-ventilated area.
	□ There are too many devices on the same circuit.	□ Limit the circuit to the use of only the air compressor.
	□ The air intake is restricted.	□ Clean or replace the air filter element.
	□ The electrical connections are loose.	□ Check all the electrical connections.
	□ The pressure switch shut-off pressure is set too high.	□ Replace the pressure switch.
	□ The check valve is malfunctioning.	□ Replace the check valve. Do not disassemble the check valve with air pressure in the tank.
	□ The unloader valve on the pressure switch is defective.	□ Replace the unloader valve.
	□ The motor capacitor(s) are defective.	□ Replace the capacitor(s).
	□ The motor is defective.	□ Replace the motor.
The tank does not hold pressure when the compressor is off and the shut off valve is closed.	□ There are air leaks in the fittings, tubing on the compressor, or the plumbing outside the unit.	□ Listen for escaping air. Apply soap solution to all fittings and connections. Bubbles will appear at points of leakage. Tighten or replace leaking fittings or connections. Use pipe thread sealant.
	□ The check valve is worn.	□ Replace the check valve. Do not disassemble the check valve with air pressure in the tank.
	□ Check the tank for cracks or pin holes.	□ Replace the tank. Never try to repair a damaged tank.
The pressure switch continuously blows air out the unloader valve.	□ The check valve is malfunctioning.	□ Replace the check valve if the unloader valve on the pressure switch bleeds off constantly when the unit shuts off. Do not disassemble the check valve with air pressure in the tank.
There is excessive vibration.	□ The fasteners on the pump or the motor are loose.	□ Tighten the fasteners.
	□ The belt needs to be replaced.	□ Replace the belt. Make sure to use the correct size.
	□ The belt needs to be aligned.	□ Align the flywheel and the pulley.

Service Parts - Compressor

MODEL HDC802000



Service Parts - Compressor (continued)

AVAILABLE KITS		
XC001900SV		
Check Valve/Exhaust Tube Kit		
Description	**Location ID**	**Qty in Kit**
1/8 in. (Male) NPT 1/4 in. Tube Connector	2	1
Exhaust Tube	4	1
1/12 in. Ferrule	5	1
1/2 in. Compression Nut	6	1
Unloader Tube	16	1
Check Valve	22	1

BG032700SV		
Belt Guard Kit		
Description	**Location ID**	**Qty in Kit**
5/16 in. Washer	7	4
Composite Belt Guard (Back)	13	1
Composite Belt Guard (Front)	14	1
Composite Belt Guard (Name Plate)	15	1
5/16 in. Self Tapping Hex Screw	17	4

D-141200AV		
E-Drain Kit		
Description	**Location ID**	**Qty in Kit**
Automatic Tank Drain	24	1
1/2 in. NPT to 1/2 in. NPT Reducer	25	1
1/4 in. 8 in. Nipple	26	1
1/4 in. - 18 90° Street Elbow	27	1

PU019600AV		
Motor Pulley Kit		
Description	**Location ID**	**Qty in Kit**
Pulley and Set Screws	21	3

MY001100SV		
Pressure Switch Kit		
Description	**Location ID**	**Qty in Kit**
PS Assembly Vertical 175 PSI 60-Gallon	3	1

AVAILABLE KITS		
BT024700AV		
Replacement Belt		
Description	**Location ID**	**Qty in Kit**
V-Belt	18	1

AR901500CG		
Replacement Tank		
Description	**Location ID**	**Qty in Kit**
Tank	19	1

MC036400SJ		
Replacement Motor		
Description	**Location ID**	**Qty in Kit**
Motor	20	1

XC002500IP		
Replacement Pump		
Description	**Location ID**	**Qty in Kit**
Pump	1	1

SR060513SV		
Manual Drain (Not Pictured)		
Description	**Location ID**	**Qty in Kit**
Manual Quarter Turn Drain Valve (Optional)	23	1

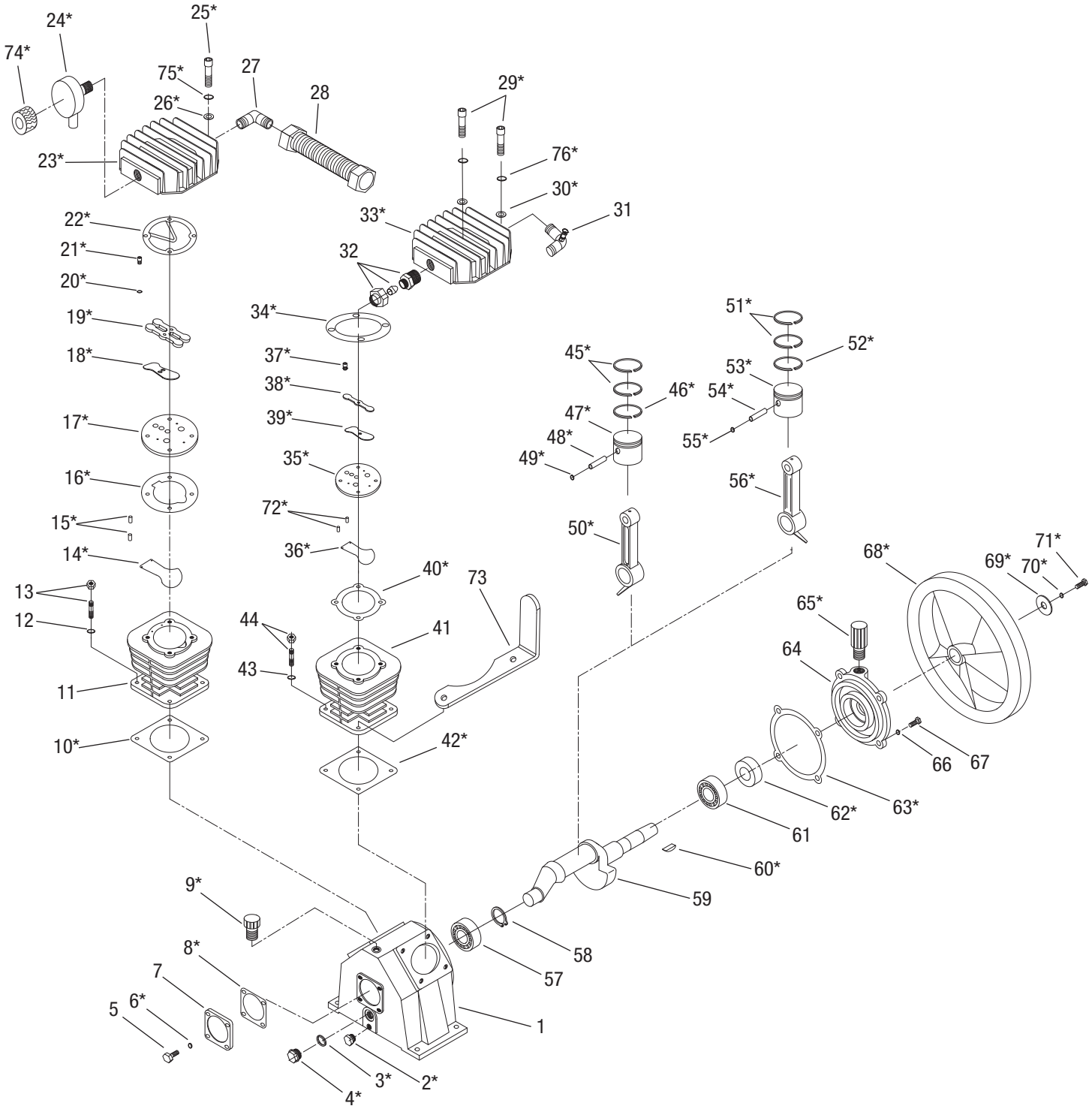
Fastener Sizes:

5/16 in. Motor, Belt Guard, Pulley

3/8 in. Pump

MODEL XC002500AV

Items marked with an asterisk (*) are available in kits only.



Service Parts - Pump (continued)

AVAILABLE KITS		
XC000900AV		
Cylinder Head & Fasteners Kit		
Description	**Location ID**	**Qty in Kit**
Cylinder Head	23, 33	2
Hex Bolt	25, 29	8
Washer	26, 30	8
Spring Washer	75, 76	8

XC001000AV		
Valve Plate Assemblies		
Description	**Location ID**	**Qty in Kit**
Valve Blade	14, 18, 36, 39	4
Plate Pin	15, 72	4
Valve Plate	17, 35	2
Valve Stopper	19, 38	2
Valve Stopper Bolt Washer	20	3
Stopper Bolt	21, 37	3

XC001100AV		
Ring Replacement Kit		
Description	**Location ID**	**Qty in Kit**
Compression Rings	45, 51	4
Wiping Ring	46, 52	2

XC001200AV		
Piston/Connecting Rod Assembly		
Description	**Location ID**	**Qty in Kit**
Piston	47, 53	2
Wrist Pin	48, 54	2
Retaining Ring	49, 55	4
Connecting Rod	50, 56	2

XC001300AV		
Gasket Kit		
Description	**Location ID**	**Qty in Kit**
Sight Glass Gasket	3	1
Bearing Cap Bolt Gasket	6	4
Bearing Cap Gasket	8, 63	2
Cylinder Gasket	10, 42	2
Valve Plate Gasket	16, 40	2
Head Gasket	22, 34	2
Crankshaft Oil Seal	62	1

AVAILABLE KITS		
XC001400AV		
Flywheel Kit		
Description	**Location ID**	**Qty in Kit**
Crankshaft Key	60	1
Flywheel	68	1
Flywheel Washer	69	1
Flywheel Bolt	71	1
Gasket	70	1

XC001500AV		
Pump Accessory Kit		
Description	**Location ID**	**Qty in Kit**
Sight Glass Gasket	3	1
Oil Plug	2	1
Sight Glass	4	1
Oil Fill Cap	9	1
Air Filter Assembly	24	1
Crankcase Breather	65	1

XC001700AV		
Air Filter Element		
Description	**Location ID**	**Qty in Kit**
Air Filter Element	74	1

Available in Belt Guard Kit (Compressor Service Parts)	
Belt Guard Bracket	73

Reference Only - Not Available	
Description	**Location ID**
Crankcase	1
Bearing Cap Bolt	5
Bearing Cap (Small)	7
Cylinder	11
Washer	12
Bolt	13
Elbow	27
Inter Cooler	28
Elbow with Safety Valve	31
Compression Fitting	32
Cylinder	41
Washer	43
Bolt	44
Bearing	57
Bearing Retainging Ring	58
Crankshaft	59
Bearing	61
Bearing Cap	64
Washer	66
Bolt	67

Questions, problems, missing parts? Before returning to the store,
call Husky Customer Service
8 a.m.- 7 p.m., EST, Monday-Friday, 9 a.m. - 6 p.m., EST, Saturday

1-888-43-HUSKY

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Retain this manual for future use.

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