

Owner's Manual

IndustrialAir

AIR COMPRESSOR

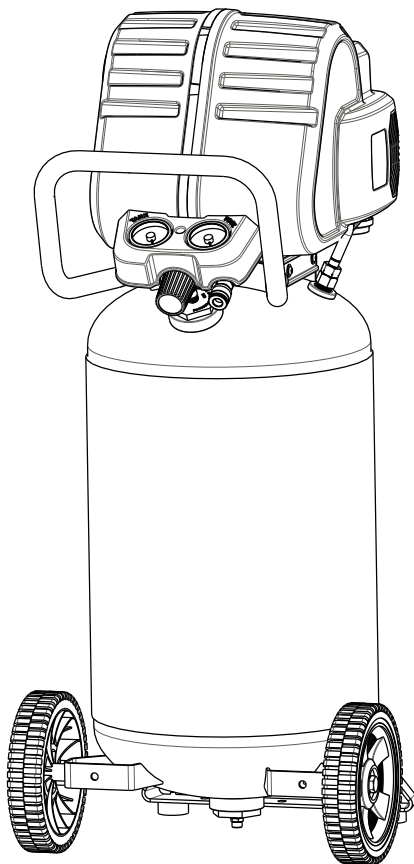
15-gallon

1.7 HP

Oil-Free, UMC

Model No. C151I

U3A2251I



CAUTION:

Before using this product, read this manual and follow all its Safety Rules and Operating Instructions.

- Safety Instructions
- Installation & Operation
- Maintenance & Storage
- Troubleshooting Guide
- Parts List
- Español, p. 22
- French, p. 45

MAT Industries, LLC, Jackson, TN 38301 U.S.A.
www.powermate.com

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TWO YEAR LIMITED WARRANTY

What Does This Warranty Cover? MAT Industries, LLC, (the Company) warrants from the date of purchase by the original retail purchaser only, parts and labor to remedy substantial defects found in materials, or workmanship.

How Long Does The Coverage Last? The duration of this warranty is Two Years. This warranty is not transferable to subsequent owners.

What MAT Industries Will Do: MAT Industries, LLC will cover parts and labor to remedy substantial defects due to materials and workmanship during the first year of ownership, with the exceptions noted below, and parts only, to remedy substantial defects due to material and workmanship for the remaining term of coverage with the exceptions noted below. Parts used in repair of whole goods or accessories are warranted for the balance of the original warranty period.

What is Not Covered Under This Warranty? Failure by the original retail purchaser to install, maintain, and operate said equipment in accordance with standard industry practices. Modifications to the product, or tampering with components, or failure to comply with the specific recommendations of the Company set forth in the owner's manual, will render this warranty null and void. The Company shall not be liable for any repairs, replacements, or adjustments to the equipment, or any costs for labor performed by the purchaser without the Company's prior written approval. The effects of corrosion, erosion, surrounding environmental conditions, cosmetic defects, and routine maintenance items, are specifically excluded from this warranty. Routine maintenance items such as: oil, lubricants, and air filters, as well as changing oil, air filters, belt tensioning, etc.... fall under the owner's responsibility. Additional exclusions include: freight damage, failures resulting from neglect, accident, or abuse, induction motors when operated from a generator, oil leaks, air leaks, oil consumption, leaky fittings, hoses, petcocks, bleeder tubes, and transfer tubes.

- If the compressor is used for commercial, industrial, or military applications, the warranty will apply for 90 days from the date of purchase. Two stage compressors are not limited to a 90 day warranty when used in commercial or industrial applications.
- Rental applications render this warranty null and void.
- The following components are considered normal wear items and are not covered after the first year of ownership: Belts, sheaves, flywheels, check valves, pressure switches, air unloaders, throttle controls, electric motors, brushes, regulators, o-rings, pressure gauges, tubing, piping, fittings, fasteners, wheels, quick couplers, gaskets, seals, air filter housings, piston rings, connecting rods, and piston seals.
- Labor, service calls, and travel charges, are not covered after the first year of ownership on stationary compressors (compressors without handles, or wheels). Repairs requiring overtime, weekend rates, or any other charges beyond the standard shop labor rate are not covered.
- Time required for orientation training for the service center to gain access to the product, or additional time due to inadequate egress.
- Damage caused by incorrect voltage, improperly wired, or failure to have a certified licensed electrician install the compressor, will render this warranty null and void.
- Damage caused from inadequate filter maintenance.
- Pump wear or valve damage caused by using oil not specified.
- Pump wear or damage caused by any oil contamination.
- Pump wear or valve damage caused by failure to follow proper maintenance guidelines.
- Operation below proper oil level or operation without oil.
- Gas Engines, if product is equipped with a gas engine, see engine manual for specific engine manufacturer's warranty coverage.

Parts purchased separately: The warranty for parts purchased separately such as: pumps, motors, etc..., are as follows:

From Date of Purchase

- All single & two stage pumps 1 year
- Electric motors 90 days
- Universal motor/pump 30 days
- All other parts 30 days
- No return authorization will be issued for electrical components once items are installed.

How do You Get Service? In order to be eligible for service under this warranty you must be the original retail purchaser, and provide proof of purchase from one of MAT Industries dealers, distributors, or retail outlet stores. Portable compressors or components must be delivered, or shipped, to the nearest Authorized MAT Industries Service Center. All associated freight costs and travel charges must be borne by the consumer. Please call our toll free number 1-888-895-4549 for assistance.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE. THE COMPANY MAKES NO OTHER WARRANTY OR REPRESENTATION OF ANY KIND WHATSOEVER, EXPRESSED OR IMPLIED, EXCEPT THAT OF TITLE. ALL IMPLIED WARRANTIES, INCLUDING ANY WARRANTY OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE ARE HEREBY DISCLAIMED. LIABILITY FOR CONSEQUENTIAL AND INCIDENTAL DAMAGES UNDER ANY AND ALL WARRANTIES, OTHER CONTRACTS, NEGLIGENCE, OR OTHER TORTS IS EXCLUDED TO THE EXTENT EXCLUSION IS PERMITTED BY LAW.

MAT Industries, LLC, Jackson, TN 38301 U.S.A.

GENERAL SAFETY RULES

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 symbols.

⚠ DANGER: Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury .	⚠ CAUTION: Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury .
⚠ WARNING: Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury .	NOTICE: Indicates a practice not related to personal injury which, if not avoided, may result in property damage .

IMPORTANT SAFETY INSTRUCTIONS

⚠ WARNING: This product contains chemicals known to the State of California to cause cancer, and birth defects or other reproductive harm. *Wash hands after handling.*

⚠ WARNING: Some dust contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm such as asbestos and lead in lead based paint.

⚠ WARNING: To reduce the risk of injury, read the instruction manual.



SAVE THESE INSTRUCTIONS

CALIFORNIA PROPOSITION 65 WARNING: This product contains chemicals known to the State of California to cause cancer, birth defects and/or reproductive harm.

HAZARD



⚠ DANGER: RISK OF EXPLOSION OR FIRE

WHAT CAN HAPPEN	HOW TO PREVENT IT
<ul style="list-style-type: none">It is normal for electrical contacts within the motor and pressure switch to spark.	<ul style="list-style-type: none">Always operate the compressor in a well ventilated area free of combustible materials, gasoline, or solvent vapors.
<ul style="list-style-type: none">If electrical sparks from compressor come into contact with flammable vapors, they may ignite, causing fire or explosion.	<ul style="list-style-type: none">If spraying flammable materials, locate compressor at least 20' (6.1 m) away from spray area. An additional length of air hose may be required.Store flammable materials in a secure location away from compressor.

<ul style="list-style-type: none"> Restricting any of the compressor ventilation openings will cause serious overheating and could cause fire. 	<ul style="list-style-type: none"> Never place objects against or on top of compressor. Operate compressor in an open area at least 12" (30.5 cm) away from any wall or obstruction that would restrict the flow of fresh air to the ventilation openings. Operate compressor in a clean, dry well ventilated area. Do not operate unit in any confined area. Store indoors.
<ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> Always remain in attendance with the product when it is operating. Always turn off and unplug unit when not in use.

HAZARD



▲ DANGER:

RISK TO BREATHING (ASPHYXIATION)

WHAT CAN HAPPEN	HOW TO PREVENT IT
<ul style="list-style-type: none"> The compressed air directly from your compressor is not safe for breathing. The air stream may contain carbon monoxide, toxic vapors, or solid particles from the air tank. Breathing these contaminants can cause serious injury or death. 	<ul style="list-style-type: none"> Never use air obtained directly from the compressor to supply air for human consumption. The compressor is not equipped with suitable filters and in-line safety equipment for human consumption.
<ul style="list-style-type: none"> Exposure to chemicals in dust created by power sanding, sawing, grinding, drilling, and other construction activities may be harmful. Sprayed materials such as paint, paint solvents, paint remover, insecticides, weed killers, may contain harmful vapors and poisons. 	<ul style="list-style-type: none"> Work in an area with good cross ventilation. Read and follow the safety instructions provided on the label or safety data sheets for the materials you are spraying. Always use certified safety equipment: NIOSH/OSHA respiratory protection or properly fitting face mask designed for use with your specific application.

HAZARD



▲ WARNING: RISK OF BURSTING

Air Tank: On February 26, 2002, the U.S. Consumer Product Safety Commission published Release # 02-108 concerning air compressor tank safety:

Air compressor receiver tanks do not have an infinite life. Tank life is dependent upon several factors, some of which include operating conditions, ambient conditions, proper installations, field modifications, and the level of maintenance. The exact effect of these factors on air receiver life is difficult to predict.

If proper maintenance procedures are not followed, internal corrosion to the inner wall of the air receiver tank can cause the air tank to unexpectedly rupture allowing pressurized air to suddenly and forcefully escape, posing risk of injury to consumers.

The following conditions could lead to a weakening of the air tank, and result in a violent air tank explosion:

WHAT CAN HAPPEN	HOW TO PREVENT IT
<ul style="list-style-type: none">• Failure to properly drain condensed water from air tank, causing rust and thinning of the steel air tank.	<ul style="list-style-type: none">• Drain air tank daily or after each use. If air tank develops a leak, replace it immediately with a new air tank or replace the entire compressor.
<ul style="list-style-type: none">• Modifications or attempted repairs to the air tank.	<ul style="list-style-type: none">• Never drill into, weld, or make any modifications to the air tank or its attachments. Never attempt to repair a damaged or leaking air tank. Replace with a new air tank.
<ul style="list-style-type: none">• Unauthorized modifications to the safety valve or any other components which control air tank pressure.	<ul style="list-style-type: none">• The air tank is designed to withstand specific operating pressures. Never make adjustments or parts substitutions to alter the factory set operating pressures.

Attachments & accessories:

<ul style="list-style-type: none">• 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.	<ul style="list-style-type: none">• Follow the equipment manufacturers recommendation and never exceed the maximum allowable pressure rating of attachments. Never use compressor to inflate small low pressure objects such as children's toys, footballs, basketballs, etc.
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HAZARD



⚠ WARNING: RISK OF ELECTRICAL SHOCK

WHAT CAN HAPPEN	HOW TO PREVENT IT
<ul style="list-style-type: none">Your compressor is powered by electricity. Like any other electrically powered device, if it is not used properly it may cause electric shock.	<ul style="list-style-type: none">Never operate the compressor outdoors when it is raining or in wet conditions.Never operate compressor with protective covers removed or damaged.
<ul style="list-style-type: none">Repairs attempted by unqualified personnel can result in serious injury or death by electrocution.	<ul style="list-style-type: none">Any electrical wiring or repairs required on this product should be performed by authorized service center personnel in accordance with national and local electrical codes.
<ul style="list-style-type: none">Electrical Grounding: Failure to provide adequate grounding to this product could result in serious injury or death from electrocution. Refer to Grounding Instructions paragraph in the <i>Installation</i> section.	<ul style="list-style-type: none">Make certain that the electrical circuit to which the compressor is connected provides proper electrical grounding, correct voltage and adequate fuse protection.

HAZARD



⚠ WARNING: RISK FROM FLYING OBJECTS

WHAT CAN HAPPEN	HOW TO PREVENT IT
<ul style="list-style-type: none">The compressed air stream can cause soft tissue damage to exposed skin and can propel dirt, chips, loose particles, and small objects at high speed, resulting in property damage or personal injury.	<ul style="list-style-type: none">Always wear certified safety equipment: ANSI Z87.1 eye protection (CAN/CSA Z94.3) with side shields when using the compressor.Never point any nozzle or sprayer toward any part of the body or at other people or animals.Always turn the compressor off and bleed pressure from the air hose and air tank before attempting maintenance, attaching tools or accessories.

HAZARD



▲ WARNING: RISK OF HOT SURFACES

WHAT CAN HAPPEN	HOW TO PREVENT IT
<ul style="list-style-type: none">• Touching exposed metal such as the compressor head, engine head, engine exhaust or outlet tubes, can result in serious burns.	<ul style="list-style-type: none">• Never touch any exposed metal parts on compressor during or immediately after operation. Compressor will remain hot for several minutes after operation.• Do not reach around protective shrouds or attempt maintenance until unit has been allowed to cool.

HAZARD



▲ WARNING: RISK FROM MOVING PARTS

WHAT CAN HAPPEN	HOW TO PREVENT IT
<ul style="list-style-type: none">• Moving parts such as the pulley, flywheel, and belt can cause serious injury if they come into contact with you or your clothing.	<ul style="list-style-type: none">• Never operate the compressor with guards or covers which are damaged or removed.• Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts.• Air vents may cover moving parts and should be avoided as well.
<ul style="list-style-type: none">• Attempting to operate compressor with damaged or missing parts or attempting to repair compressor with protective shrouds removed can expose you to moving parts and can result in serious injury.	<ul style="list-style-type: none">• Any repairs required on this product should be performed by authorized service center personnel.

HAZARD



▲ WARNING: RISK OF UNSAFE OPERATION

WHAT CAN HAPPEN	HOW TO PREVENT IT
<ul style="list-style-type: none">• Unsafe operation of your compressor could lead to serious injury or death to you or others.	<ul style="list-style-type: none">• Review and understand all instructions and warnings in this manual.• Become familiar with the operation and controls of the air compressor.• Keep operating area clear of all persons, pets, and obstacles.• Keep children away from the air compressor at all times.• Do not operate the product when fatigued or under the influence of alcohol or drugs. Stay alert at all times.• Never defeat the safety features of this product.• Equip area of operation with a fire extinguisher.• Do not operate machine with missing, broken, or unauthorized parts.

HAZARD



▲ WARNING: RISK OF FALLING

WHAT CAN HAPPEN	HOW TO PREVENT IT
<ul style="list-style-type: none">• A portable compressor can fall from a table, workbench, or roof causing damage to the compressor and could result in serious injury or death to the operator.	<ul style="list-style-type: none">• Always operate compressor in a stable secure position to prevent accidental movement of the unit. Never operate compressor on a roof or other elevated position. Use additional air hose to reach high locations.

HAZARD



▲ WARNING: RISK OF INJURY FROM LIFTING

WHAT CAN HAPPEN	HOW TO PREVENT IT
<ul style="list-style-type: none">Serious injury can result from attempting to lift too heavy an object.	<ul style="list-style-type: none">The compressor is too heavy to be lifted by one person. Obtain assistance from others before lifting.



▲ CAUTION: RISK FROM NOISE

WHAT CAN HAPPEN	HOW TO PREVENT IT
<ul style="list-style-type: none">Under some conditions and duration of use, noise from this product may contribute to hearing loss.	<ul style="list-style-type: none">Always wear certified safety equipment: ANSI S12.6 (S3.19) hearing protection.

SAVE THESE INSTRUCTIONS FOR FUTURE USE

SPECIFICATION CHART

Model No.	C151I
Running Horsepower	1.7 *
Bore	2.875" (73.025 mm)
Stroke	1.45" (36.83 mm)
Voltage	120
Hz-Single Phase	60
Minimum Branch Circuit Requirement	15 amps
Fuse Type	Time Delay
Air Tank Capacity (Gallon)	15 (56.8 liters)
Maximum Air Pressure	225 PSI
Approximate Cut-in Pressure	175 PSIG
Approximate Cut-out Pressure	225 PSIG
SCFM @ 40 PSI	6.8 *
SCFM @ 90 PSI	5.1 *

* Tested per ISO 1217

Refer to Glossary for abbreviations.

GLOSSARY

Air Filter

Porous element contained within a metal or plastic housing attached to the compressor cylinder head which removes impurities from the intake air of the compressor.

Air Tank

Cylindrical component which contains the compressed air.

Check Valve

Device that prevents compressed air from flowing back from the air tank to

the compressor pump.

Cut-In Pressure

The low pressure at which the motor will automatically restart.

Cut-Off Pressure

The high pressure at which the motor will automatically shut off.

Electric Motor

Device which provides the rotational force necessary to operate the compressor pump.

NPT (National Pipe Thread)

A seal thread tape must be used to provide a leak-free seal on pipe threaded connections.

Pressure Regulator Knob

Regulates the outgoing pressure from the air outlet to the tool. It is possible to increase or decrease the pressure at the outlet by adjusting this control knob.

Pressure Switch

Automatically controls the on/off cycling of the compressor. It stops the compressor when the cut-off pressure in the tank is reached and starts the compressor when the air pressure drops below the cut-in pressure. The pressure switch will not automatically start and control the compressor unless the manual AUTO/Off Switch is in the AUTO position.

PSI (Pounds Per Square Inch)

Measurement of the pressure exerted by the force of the air. The actual PSI is measured by a pressure gauge on the compressor.

Pump

Produces the compressed air with a reciprocating piston contained within the cylinder.

Regulator Pressure Gauge

Displays the current line pressure. Line pressure is adjusted by rotating the pressure regulator knob.

Pressure Relief Valve

Prevents air pressure in the air tank from rising over a predetermined limit.

SCFM (Standard Cubic Feet Per Minute)

A unit of measure of air delivery.

Tank Pressure Gauge

Indicates the pressure in the air tank.

Thermal Overload Switch

Automatically shuts off the compressor if the temperature of the electric motor exceeds a predetermined limit.

DUTY CYCLE

This air compressor pump is capable of running continuously. However, to prolong the life of your air compressor, it is recommended that a 50%-75% average duty cycle be maintained; that is, the air compressor pump should not run more than 30-45 minutes in any given hour.

ACCESSORIES

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

⚠ WARNING:

The use of any other accessory not recommended for use with this tool could be hazardous. Use only accessories rated equal to or higher than the rating of the air compressor.

OVERVIEW

Power Switch

This controls the power to the motor and also the cut-in/cut-out pressure settings. This switch serves as the Auto-On/Off positions for the unit.



Tool Pressure Gauge

Indicates the outgoing air pressure to the tool and is controlled by the regulator.

Tank Pressure Gauge

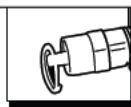
Indicates the reserve air pressure in the tank.

Regulator

The air pressure coming from the air tank is controlled by the regulator. To increase the pressure, turn the knob clockwise, and to decrease the pressure, turn the knob counter-clockwise.

Tank Safety Valve

Used to allow excess tank pressure to escape into the atmosphere. This valve should only open when the tank pressure is above the maximum rated pressure.



Quick Connect

Offers a quick release feature for attaching and removing the air hose.



Tank Drain Valve

Used to drain condensation from the air tank. Located at bottom of tank.



Air Intake Filter

Provides clean air to the pump and must always be kept free of debris. Check on a daily basis or before each use.



Outlet Tube

Check Valve

When the pump is not in operation the valve closes to retain air pressure inside the tank. An internal component.



ASSEMBLY

ASSEMBLING THE COMPRESSOR

WARNING

The air compressor should be turned off, unplugged from the power source, the air bled from the tank and the unit allowed time to cool before any maintenance is performed. Personal injuries could occur from moving parts, electrical sources, compressed air or hot surfaces. The quick connect assembly must be attached before use. Failure to assemble correctly could result in leaks and possible injury. If unsure of assembly instructions or you experience difficulty in the assembly please call your local service department for further information.

1. Unpack the air compressor. Inspect the unit for damage. If the unit has been damaged in transit, contact the carrier and complete a damage claim. Do this immediately because there are time limitations to damage claims.
2. Check the compressor's serial label to ensure that you have received the model ordered, and that it has the required pressure rating for its intended use.
3. Locate the compressor according to the following guidelines:
 - a. Position the compressor near a grounded electrical outlet.
 - b. The compressor must be at least 12 inches (31 cm) from any wall or obstruction, in a clean, well-ventilated area, to ensure sufficient air flow and cooling.
 - c. In cold climates, store portable compressors in a heated building when not in use. This will reduce problems with motor starting and freezing of water condensation.
 - d. Remove the compressor from the carton and place it on the floor or a hard, level surface. The compressor must be level to ensure proper drainage of the moisture in the tank.

INSTALLATION

GETTING STARTED

Location of the Air Compressor

The air compressor should always be located in a clean, dry and well ventilated environment. The unit should have at minimum, 12 inches of space on each side. The air filter intake should be free of any debris or obstructions. Check the air filter on a daily basis to make sure it is clean and in working order.

Risk Of Fire Or Explosion

This product incorporates snap action switch contacts and a universal electric motor which tends to produce arcs and sparking and therefore should not be exposed to flammable liquids or vapors. This product is not intended for installation or use in a commercial garage or shop environment.

Grounding Instructions

This product must be grounded. In the event of an electrical short circuit, grounding reduces the risk of electric shock by providing an escape wire for the electric current. This product is equipped with a cord having a grounding wire with an appropriate grounding plug. (See Figure 3.) The plug must be plugged into an outlet that is properly installed and grounded in accordance with all local codes and ordinances. Check with a qualified electrician or service personnel if these instructions are not completely understood or if in doubt as to whether the tool is properly grounded.



▲ WARNING:

Improper installation of the grounding plug will result in a risk of electric shock. If repair or replacement of the cord or plug is necessary, do not connect the grounding wire to either flat blade terminal. The wire with insulation having an outer surface that is green

with or without yellow stripes is the grounding wire. Substitution of the signal word "DANGER" for "WARNING" is not prohibited when the risk associated with the product is such that a situation exists which if not avoided will result in death or serious injury. Check with a qualified electrician or serviceman if the grounding instructions are not completely understood, or if in doubt as to whether the product is properly grounded. Do not modify the plug provided; if it will not fit the outlet, have the proper outlet installed by a qualified electrician.

This product is for use on a nominal 120-V circuit and has a grounding plug similar to the plug illustrated in (Figure 3). Only connect the product to an outlet having the same configuration as the plug. Do not use an adapter with this product.

INSTALLATION

GETTING STARTED

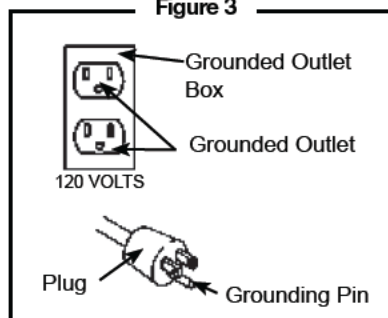
Extension Cords

Use only a 3-wire extension cord that has a 3-blade grounding plug, and a 3-slot receptacle that will accept the plug on the product. Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. Cords must not exceed 50 feet and No. 12 AWG size must be used. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating.

Break In Procedures

No break in procedure is required by the user. This product is factory tested to ensure proper operation and performance.

Figure 3

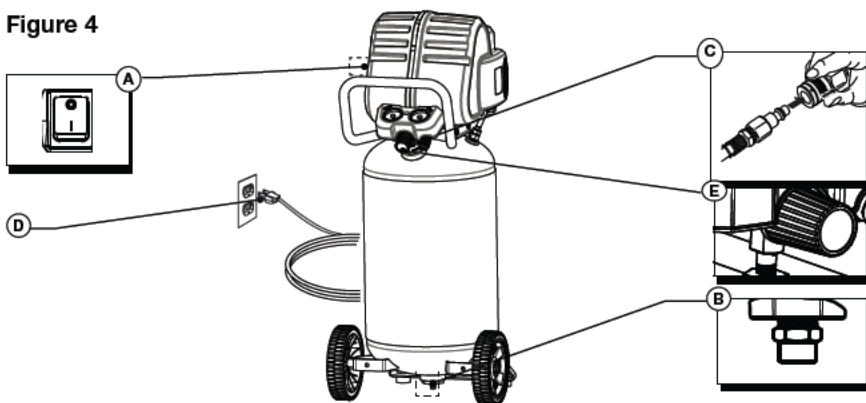


OPERATING PROCEDURES

DAILY STARTUP (Figure 4)

1. Set the Power Switch to the Off position. (A)
2. Inspect the air compressor, air hose, and any accessories/tools being used for damage or obstruction. If any of these mentioned items are in need of repair/replacement, contact your local authorized dealer before use.
3. Close the drain valve. (B)
4. Connect the air hose to the quick connect socket on the regulator assembly by inserting the quick connect plug on the air hose into the quick connect socket. The quick connect socket collar will snap forward and lock the plug into place providing an air tight seal between the socket and plug. To release the air hose push the collar back on the quick connect socket. (C)
5. Plug the power cord into the proper receptacle. (D)
6. Turn the Power Switch to the On position and the compressor will start and build air pressure in the tank to cut-out pressure and then shut off automatically. (A)
7. Adjust the regulator to a PSI setting that is needed for your application and be sure it is within the safety standards required to perform the task. If using a pneumatic tool, the manufacturer should have recommendations in the manual for that particular tool on operating PSI settings. (E)

Figure 4



SHUTDOWN (Figure 4)

1. Set the Power Switch to the Off position. (A)
2. Unplug the power cord from the receptacle. (D)
3. Set the outlet pressure to zero on the regulator. (E)
4. Remove any air tools or accessories.
5. Open the drain valve allowing air to bleed from the tank. After all of the air has bled from the tank, close the drain valve to prevent debris buildup in the valve. (B)

⚠ CAUTION

When draining the tank, always use ear and eye protection. Drain the tank in a suitable location; condensation will be present in most cases of draining.

⚠ WARNING

Water that remains in the tank during storage will corrode and weaken the air tank which could cause the tank to rupture. To avoid serious injury, be sure to drain the tank after each use or daily.

MAINTENANCE

▲ WARNING To avoid personal injury, always shut off and unplug the compressor and relieve all air pressure from the system before performing any service on the air compressor.

▲ WARNING To ensure efficient operation and longer life of the air compressor unit, a routine maintenance schedule should be followed. The following schedule is geared toward a consumer whose compressor is used in a normal working environment on a daily basis.

▲ CAUTION This compressor is equipped with an automatic reset thermal overload protector which will shut off motor if it becomes overheated. If the thermal overload protector is actuated, the motor must be allowed to cool down before start-up is possible.

NOTE: The motor will automatically restart without warning if the unit is left plugged in to an outlet with the Auto-On/Off switch in the on position.

DRAINING THE TANK

▲ WARNING Condensation will accumulate in the tank. To prevent corrosion of the tank from the inside, this moisture must be drained at the end of every workday. Be sure to wear protective eyewear. Relieve the air pressure in the system and open the drain valve on the bottom of the tank and tilt tank to drain.

NOTE: In cold climates, drain the tank after each use to reduce problems with freezing of water condensation.

CHECKING THE SAFETY VALVE (Figure 5)

Check the safety valve by performing these three steps:

1. Plug the compressor in and run until shut-off pressure is reached.
2. Wearing safety glasses, pull out on the safety valve ring to release pressure from the tank.
3. The safety valve should close automatically at approximately at 40-50 PSI. If the safety valve does not allow air to be released when you pull out on the ring, or does not close automatically, it must be replaced.

STORAGE

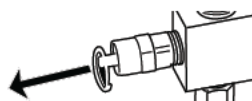
For storing the air compressor, be sure to do the following:

1. Turn the unit off and unplug the power cord from the receptacle.
2. Remove all air hoses, accessories, and air tools from the air compressor.
3. Perform the daily maintenance schedule.
4. Open the drain valve to bleed all air from the tank.
5. Close the drain valve.
6. Protect the electrical cord and air hose from damage (such as being stepped on or run over). Wind them loosely around the compressor handle.
7. Store the air compressor in a clean and dry location.

Maintenance Schedule



Items to Check/Change	Before each use or daily
Check Tank Safety Valve	X
Overall Unit Visual Check	X
Drain Tank	X
Check Power Cord for Damage	X

Figure 5



TROUBLESHOOTING

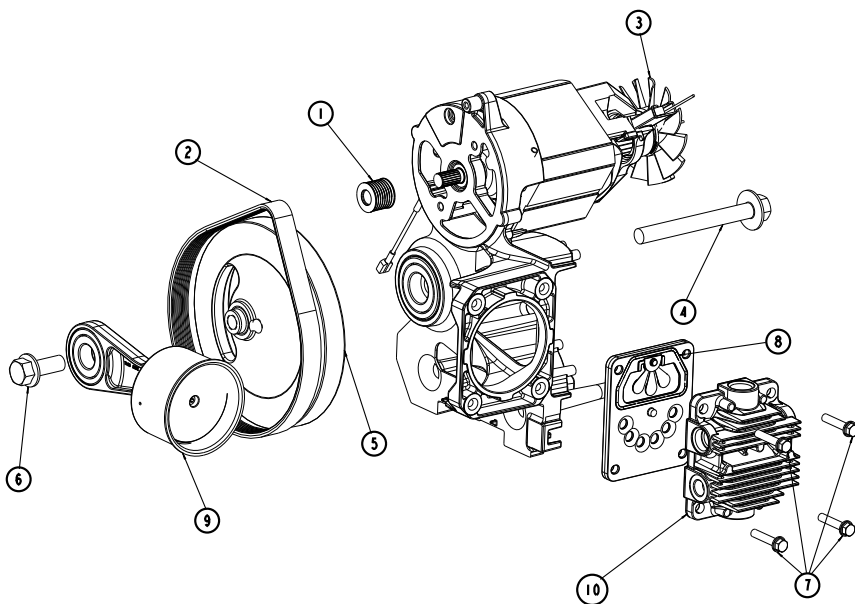
⚠ WARNING: Risk of Unsafe Operation. Unit cycles automatically when power is on. When servicing, you may be exposed to voltage sources, compressed air, or moving parts. Before servicing unit unplug or disconnect electrical supply to the air compressor, bleed tank of pressure, and allow the air compressor to cool.

PROBLEM	CAUSE	CORRECTION
<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">  </div> <div> <p>Low pressure or not enough air or Compressor does not stop</p> </div> </div>	Tank drain valve is open	Close drain valve
	Fittings leak	Check fittings with soapy water. Tighten or reseal leaking fittings. DO NOT OVERTIGHTEN.
	Restricted air intake	Clean or replace intake filter element.
	Prolonged excessive use of air	Decrease amount of air used.
	Compressor not large enough	Check air requirement of accessory. If it is higher than CFM and pressure supplied by compressor, you need a larger compressor. Most accessories are rated at 25% of actual CFM while running continuously.
	Hole in air hose	Check and replace if necessary.
	Tank leaks	⚠ WARNING: Immediately replace tank. DO NOT attempt to repair.
	Blown seals	Replace seals.
	Valve leaks	Replace seals.
<div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">  </div> <div> <p>Air leaks from regulator, or regulator does not regulate pressure</p> </div> </div>	Leaking or worn piston	Replace piston.
	Dirty or damaged regulator internal parts.	Replace regulator or internal parts.

PROBLEM	CAUSE	CORRECTION
Regulated pressure gauge reading drops when air accessory is being used	This is normal	If pressure drops too low, adjust regulator while accessory is used.
	Compressor not large enough	Check air requirement of accessory. If it is higher than CFM and pressure supplied by compressor, you need a larger compressor. Most accessories are rated at 25% of actual CFM while running continuously.
Pressure relief valve opens	Tank pressure exceeded normal operating pressure	Replace pressure switch
	Pressure switch stuck	Replace pressure switch
Motor will not run	Tank pressure exceeds preset pressure switch limit	Motor will start automatically when tank pressure drops below cut- in pressure of pressure tank.
	Make sure the Thermal Overload Switch has not tripped. The motor has a built in thermal cut out that trips when necessary to protect the motor from damage when overheated.	To reset the motor overload toggle turn the Power Switch to the OFF position and unplug the unit from the power outlet. Allow 10 minutes (minimum) for motor overload cut-out to cool and reset. Unit can then be plugged in and re-started.
	Fuse blown or circuit breaker tripped	<ul style="list-style-type: none"> • Replace blown fuse or reset circuit breaker. Do not use fuse or circuit breaker with higher rating than specified for your branch circuit. • Check for proper fuse; "Fusetron" type T is acceptable. • Check for low voltage and proper extension cord size. • Disconnect other applications from circuit. Operate compressor on a dedicated circuit.
	Check valve stuck open	Remove and clean or replace.
	Wrong wire gauge in cord or excessive extension cord length	Check for proper gauge and extension cord length.
	Loose electrical connections	Contact authorized service center.
	Paint spray on internal motor parts	Have checked at service center. Do not operate compressor in the paint spray area
	Possible defective motor	Have checked at service center.

PARTS DRAWING

PUMP/MOTOR ASSEMBLY

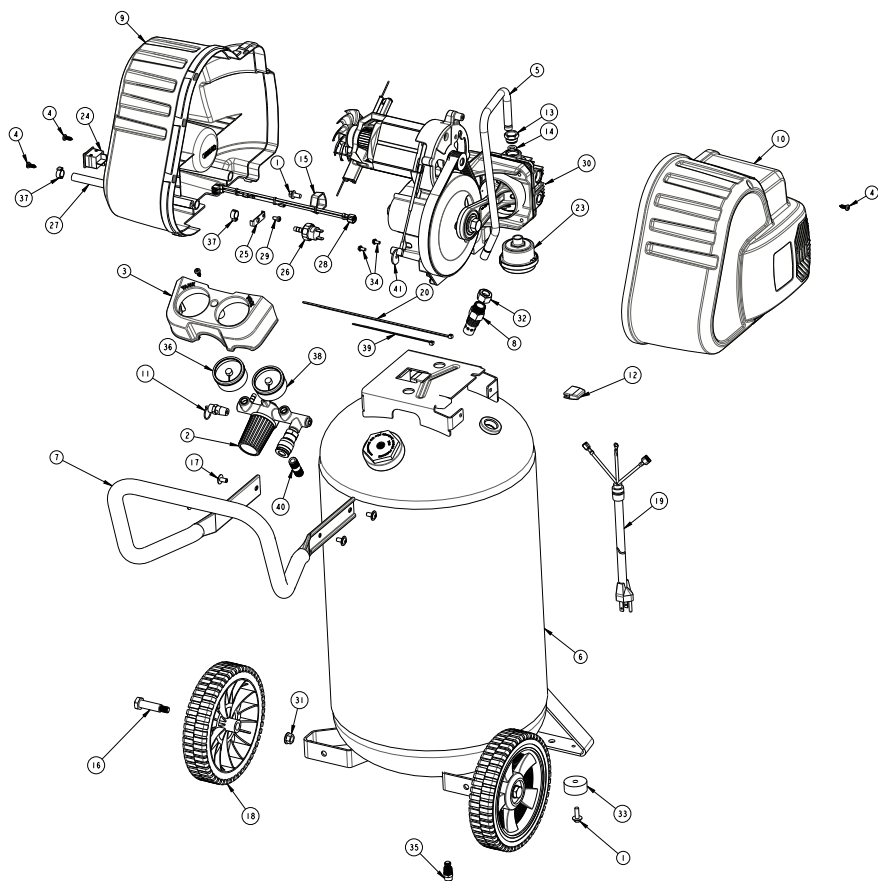


PARTS LIST

REF. NO	PART NO.	DESCRIPTION	QTY
1	E106663	Pulley	1
2	E106664	Belt	1
3	E107844	Fan	1
4	E106666	Screw	1
5	E106667	Flywheel	1
6	E106668	Screw	1
7	E106669	Screw	4
8	E106670	Valve Plate Kit	1
9	E107845	Conrod Kit	1
10	E106672	Head	1

PARTS DRAWING

C151I



PARTS LIST

REF. NO	PART NO.	DESCRIPTION	QTY
1	E106660	SCREW	3
2	E107996	MANIFOLD	1
3	E106917	COVER CONSOLE	1
4	E106614	ASSY FASTENER	4
5	E107856	OUTLET TUBE	1
6	E107847	TANK PTD	1
7	E107848	HANDLE ASSEMBLY, PTD	1
8	E106618	CHECK VALVE	1
*9	E107849	LEFT SHROUD	1
*10	E107850	RIGHT SHROUD	1
11	E107851	SAFETY VALVE	1
12	E106622	ISOLATOR	3
*13	E106623	NUT	1
*14	E106624	O-RING	1
15	E106625	CUP	1
16	E106626	SCREW	2
17	E106627	SCREW	4
18	E107857	WHEEL	2
19	E106629	POWER CORD (14GA)	1
20	E106658	ZIP TIE	1
21	E106630	LABEL/HOT SURFACE	1
22	E106631	LABEL/WARNING, DRAIN TANK	1
23	E106632	FILTER ASSEMBLY	1
24	E106633	SWITCH ROCKER	1
25	E106634	BRACKET	1
26	E107852	PRESSURE SWITCH	1
27	E106655	HOSE	1
28	E106637	ASSY WIRE JUMPER	1
29	E106638	SCREW	1
30	E107853	PUMP	1
31	E106640	NUT	2
32	E106641	ASSY NUT SLEEVE 1/2	1
33	E106661	ISOLATOR	2
34	E106643	SCREW	2
35	E106644	DRAIN VALVE	1
36	E107855	GAUGE	1
37	E106648	CLAMP	2
38	E107854	GAUGE	1
39	E106659	ZIP TIE	1
40	E107858	NIPPLE	1
41	E106657	WASHER	1

REF. NO	NOTES
9 & 10	All snaps on shroud to be fully engaged
13	Torque 100-120 IN LBS
14	Seat o-ring securely in groove on outlet tube before installing in pump head

Note: Descriptions are provided for reference only.