



20 Gallon Oil-Free Electric Air Compressor

Owner's Manual



⚠ WARNING: Read carefully and understand all ASSEMBLY AND OPERATION INSTRUCTIONS before operating. Failure to follow the safety rules and other basic safety precautions may result in serious personal injury.

Model # AC1221

READ AND SAVE THESE INSTRUCTIONS

Ironton

Thank you very much for choosing a Ironton® product!

For future reference, please complete the owner's record below:

Serial Number/Lot Date Code:

Purchase Date:

Save the receipt, warranty, and this manual. It is important that you read the entire manual to become familiar with this product before you begin using it.

This air compressor is designed for certain applications only. Northern Tool and Equipment is not responsible for issues arising from modification or improper use of this product such as an application for which it was not designed. We strongly recommend that this product not be modified and/or used for any application other than that for which it was designed.

For technical questions, please call 1-800-222-5381.



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INTENDED USE

The Ironton® 20 Gallon Electric Oil-Free Air Compressor is ideal for inflating tires, air mattresses, pool toys, and sports balls. The air compressor can be used for operating pneumatic tools including: air nailers, impact wrenches, air ratchets, drills, and cutting tools. It's the perfect air compressor for medium to heavy automotive, farm, and shop-type applications. It features:

- Maximum Efficiency: High performance pump provides 125 max. psi for longer tool run times.
- Compact Power: Power and performance of a large compressor in a portable size.
- Efficient Operation: Low maintenance, oil-free pump produces cleaner air for tools.

PACKAGING CONTENTS

- Air compressor and tank
- Handle
- Wheels
- Owner's Manual

TECHNICAL SPECIFICATIONS

Property	Specification
Model	AC1212
Lubrication Type	Oil free
Running Horsepower	1.5
Voltage	120
Hz-Single Phase	60
Minimum Branch Circuit Requirement	15 Amps
Fuse Type	Time Delay
Air Tank Capacity (Vertical)	20 gallons (75.7 liters)
Motor Speed	3,400 RPM
Maximum Operating Air Pressure	125 psi
Maximum Tank Air Pressure	150 psi
CFM @ 40 psi	4.18
CFM @ 90 psi	2.31
Fill Time: 0 psi To 40 psi	1 Minute + 47 Seconds
Fill Time: 0 psi To 90 psi	6 Minutes + 47 Seconds
Fill Time: 0 psi To 125 psi	10 Minutes + 35 Seconds
Recovery Time: 90 - 125 psi	3 Minutes + 28 Seconds
Cut In Operating Pressure	90 psi
Cut Out Operating Pressure	125 psi
Packaging Dimensions	18" x 18" x 43.5"
Item Dimensions (Inches)	24.4" x 20" x 41"
Tank Dimensions	24.6" Height x 15.16" Diameter
Watts At Cut Out / Amps At Cut Out	565 W / 5.3 A
Wheel Diameter	8"
Item Weight / Ship Weight	72.5 lbs / 78 lbs

SAFETY SIGNAL WORDS

The definitions below describe the level of severity for each signal word. Please read the manual and pay attention to the following.

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.

NOTICE

Notice indicates important information, that if not followed, may cause damage to equipment.

IMPORTANT SAFETY INFORMATION



- Read and understand all instructions. Failure to follow all instructions may result in serious injury or property damage.
- The warnings, cautions, and instructions in this manual cannot cover all possible conditions or situations that could occur. Exercise common sense and caution when using this tool. Always be aware of the environment and ensure that the tool is used in a safe and responsible manner.
- Do not allow persons to operate or assemble the product until they have read this manual and have developed a thorough understanding of how it works.
- Do not modify this product in any way. Unauthorized modification may impair the function and/or safety and could affect the life of the product. There are specific applications for which the product was designed.
- Use the right tool for the job. DO NOT attempt to force small equipment to do the work of larger industrial equipment. There are certain applications for which this equipment was designed. This product will be safer and do a better job at the capacity for which it was intended. DO NOT use this equipment for a purpose for which it was not intended.
- Industrial or commercial applications must follow OSHA requirements.



Prop 65

This product can expose you to chemicals including DEHP, which is 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

Work Area Safety

- Inspect the work area before each use. Keep work area clean, dry, free of clutter, and well-lit. Cluttered, wet, or dark work areas can result in injury. Using the product in confined work areas may put you dangerously close to cutting tools and rotating parts.
- Do not use the product where there is a risk of causing a fire or an explosion; e.g., in the presence of flammable liquids, gases, or dust. The product can create sparks, which may ignite the flammable liquids, gases, or dust.
- Do not allow the product to come into contact with an electrical source. The tool is not insulated and contact will cause electrical shock.
- Keep children and bystanders away from the work area while operating the tool. Do not allow children to handle the product.
- Be aware of all power lines, electrical circuits, water pipes, and other mechanical hazards in your work area. Some of these hazards may be hidden from your view and may cause personal injury and/or property damage if contacted.
- Keep your work area clean and well lit. Ensure floors are not slippery from wax or dust.
- 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. 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.
- 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.
- The air tank is designed to withstand specific operating pressures. Never make adjustments or parts substitutions to alter the factory set operating pressures.
- Over inflation of tires could result in serious injury and property damage. NOTE: Air tanks, compressors and similar equipment used to inflate tires can fill small tires very rapidly. Adjust pressure regulator on air supply to no more than the rating of the tire pressure. Add air in small increments and frequently use the tire gauge to prevent over inflation.

 WARNING

Personal Safety

- Stay alert, watch what you are doing, and use common sense when operating the tool. Do not use the tool while you are tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating the tool may result in serious personal injury.
- Dress properly. Do not wear loose clothing, dangling objects, or jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts. Air vents on the tool often cover moving parts and should be avoided.
- Wear the proper personal protective equipment when necessary. Use ANSI Z87.1 compliant safety goggles (not safety glasses) with side shields, or when needed, a face shield. Use a dust mask in dusty work conditions. Also use non-skid safety shoes, hardhat, gloves, dust collection systems, and hearing protection when appropriate. This applies to all persons in the work area.
- 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.
- Do not overreach. Keep proper footing and balance at all times.
- Remove keys or wrenches before connecting the tool to an air supply, power supply, or turning on the tool. A wrench or key that is left attached to a rotating part of the tool may cause personal injury.
- Secure the work with clamps or a vise instead of your hand when practical. This safety precaution allows for proper tool operation using both hands.
- Never touch any exposed metal parts on compressor during or immediately after operation. The compressor will remain hot for several minutes after operation. Do not reach around protective shrouds or attempt maintenance until the unit has been allowed to cool.
- 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. Never point any nozzle or sprayer toward any part of the body or at other people or animals.

 CAUTION

Air Compressor Use And Care

- Do not force the air compressor. Products are safer and do a better job when used in the manner for which they are designed. Plan your work and use the correct product for the job.
- Check for damaged parts before each use. Carefully check that the product will operate properly and perform its intended function. Replace damaged or worn parts immediately. Never operate the product with a damaged part.
- Do not use a product with a malfunctioning switch. Any power tool that cannot be controlled with the power switch is dangerous and must be repaired by an authorized service representative before using.
- Disconnect the power/air supply from the product and place the switch in the locked or off position before making any adjustments, changing accessories, or storing the tool. Such preventive safety measures reduce the risk of starting the tool accidentally.
- Store the product when it is not in use. Store it in a dry, secure place out of the reach of children. Inspect the tool for good working condition prior to storage and before re-use.
- Use only accessories that are recommended by the manufacturer for use with your product. Accessories that may be suitable for one product may create a risk of injury when used with another tool. Never use an accessory that has a lower operating speed or operating pressure than the tool itself.
- Keep guards in place and in working order. Never operate the product without the guards in place.
- Do not leave the tool running unattended.
- Drain the moisture from the tank on a daily basis. A clean, dry tank will help prevent corrosion.
- Pull the pressure relief valve ring daily to ensure that the valve is functioning properly, and to clear the valve of any possible obstructions.
- To provide proper ventilation for cooling, the compressor must be kept a minimum of 12 inches (31 cm) from the nearest wall, in a well-ventilated area.
- Fasten the compressor down securely if transporting is necessary. Pressure must be released from the tank before transporting.
- Protect the air hose and electric cord from damage and puncture. Inspect them weekly for weak or worn spots and replace if necessary.
- To reduce the risk of electric shock, do not expose to rain. Store indoors.
- Never operate the compressor if the power cord or plug are damaged. Take the equipment to the nearest Authorized Service Center and a specialized technician will replace it.

SPECIFIC OPERATION WARNINGS



- Repairs attempted by unqualified personnel can result in serious injury or death by electrocution. 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.
- Failure to provide adequate grounding to this product could result in serious injury or death from electrocution. Refer to Grounding Instructions paragraph in the Installation section. Make certain that the electrical circuit to which the compressor is connected provides proper electrical grounding, correct voltage and adequate fuse protection.
- Under some conditions and duration of use, noise from this product may contribute to hearing loss. Always wear certified safety equipment: ANSI S12.6 (S3.19) hearing protection.
- 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. Follow the equipment manufacturer's recommendation and never exceed the maximum allowable pressure rating of attachments.
- 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.

CAUTION

Air Tool Cautions

- DO NOT use air tools that are rated below the maximum rating of the compressor. Select air tools, air hoses, pipes, valves, filters and other fittings accordingly. DO NOT exceed manufacturer's rated safe operating pressures for these items.
- Make sure all hose connections are adequately secured to prevent tools or hose ends from being accidentally disconnected.
- Remove adjusting keys or wrenches before turning the tool on. A wrench or key that is left attached to a moving part of the tool may result in personal injury.
- Keep work area clean and well lit. Cluttered or dark work areas invite accidents.
- Keep children away.
All children should be kept away from the work area. Never let a child handle a tool without strict adult supervision.
- Store idle tools out of the reach of children and untrained persons.
Tools may be dangerous in the hands of untrained users.
- Do not operate any tool if under the influence of alcohol or drugs.
Read warning labels on prescriptions to determine if your judgment or reflexes are impaired while taking drugs. If there is any doubt, do not attempt to operate.
- Do not force tool.
Use the correct tool for your application. The correct tool will do the job better and safer at the rate for which it was designed.
- Do not use the tool if the switch does not turn it on and off.
Any tool that cannot be controlled with the switch is dangerous and must be repaired.
- Check for damage. Check your tool regularly. If part of the tool is damaged it should be carefully inspected to make sure that it can perform its' intended function correctly. If in doubt, the part should be repaired. Refer all servicing to a qualified technician. Consult your dealer for advice.
- Maintain tools with care.
Keep tools sharp and clean. Properly maintained tools, with sharp cutting edges, are less likely to bind and are easier to control.

POWER SOURCE CONNECTION

Power Requirements

This tool is designed to operate on a properly grounded 120 volt, 60 Hz, single phase alternating current (AC) power source fused with a 15 amp time delayed circuit breaker. It is recommended that a qualified electrician verify the ACTUAL VOLTAGE at the receptacle into which the tool will be plugged and confirm that the receptacle is properly grounded. The use of the proper circuit size can eliminate nuisance circuit breaker tripping when using your tool. Improper performance, and/or, damage to the tool will result if operated on inadequate, or excessive power.

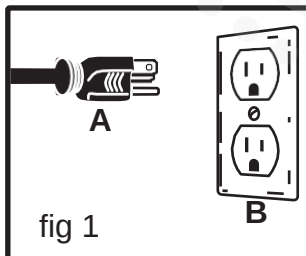
⚠ CAUTION *DO NOT OPERATE THIS TOOL if the ACTUAL power source voltage is less than 105 volts AC or greater than 132 volts AC.*

GROUNDING

- This machine must be grounded while in use to protect the operator from electrical shock. This compressor is equipped with an electrical cord that has an equipment grounding conductor and a grounding plug. The plug **MUST** be plugged into a matching receptacle that is properly installed and grounded in accordance with ALL local codes and ordinances.
- **DO NOT MODIFY THE PROVIDED PLUG.** If it will not fit the receptacle, have the proper receptacle installed by a qualified electrician.
- **CHECK** with a qualified electrician or service person if you do not completely understand the grounding instructions, or if you are not sure the tool is properly grounded.

Grounded Tools: Tools with 3-Prong Plugs

Tools marked with **Grounding Required** have a 3-wire cord and 3-prong grounding plug. The plug must be connected to a properly grounded outlet. If the tool should electrically malfunction or break down, grounding provides a low resistance path to carry electricity away from the user, reducing the risk of electric shock. (See Figure 1.)



The grounding prong in the plug is connected through the green wire inside the cord to the grounding system in the tool. The green wire in the cord must be the only wire connected to the tool's grounding system and must never be attached to an electrically live terminal.

Your tool must be plugged into an appropriate outlet, properly installed and grounded in accordance with all codes and ordinances. The plug and outlet should look like those in the following illustration.

EXTENSION CORDS

- For optimum air compressor performance an extension cord should not be used unless absolutely necessary.

- **USE A PROPER EXTENSION CORD.** 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. An undersized cord will cause a drop in line voltage, resulting in loss of power and cause overheating.
- Be sure your extension cord is properly wired and in good condition. Always replace a damaged extension cord or have it repaired by a qualified person before using it. Protect your extension cords from sharp objects, excessive heat and damp or wet areas.

- Grounded tools require a 3-wire extension cord.
- As the distance from the supply outlet increases, you must use a heavier gauge extension cord. Using extension cords with inadequately sized wire causes a serious drop in voltage, resulting in loss of power and possible tool damage.
- If you must choose between an electrical extension cord and a longer air hose, choose the latter. It is far better for the life of the compressor. If necessary, care must be taken in selecting an extension cord appropriate for use with your specific air compressor.

- The smaller the wire's gauge number, the greater the capacity of the cord. For example, a 14-gauge cord can carry a higher current than a 16-gauge cord. Minimum extension cord wire size is shown in the following table:

Minimum Wire Size of Extension Cords				
Nameplate AMPs	Cord Length			
	25'	50'	100'	150'
0-5	18 AWG	16 AWG	16 AWG	14 AWG
6-10	18 AWG	16 AWG	14 AWG	12 AWG
10-12	16 AWG	16 AWG	14 AWG	12 AWG
12-16	14 AWG	12 AWG	NOT RECOMMENDED	

- Maximum length of extension cord for this compressor should be 50 feet (15 meters). Minimum wire size of extension cord should be 12 gauge.
- Use a heavy-gauge extension, since very thin or very long cord may cause voltage drop and result in loss of power in the compressor and overheating. Select a properly grounded extension cord which will mate directly with the power source receptacle and the air compressor power cord without the use of adapters. Make certain that the extension cord is properly wired and in good electrical condition.
- When using more than one extension cord to make up the total length, make sure each cord contains at least the minimum wire size required.
- If you are using one extension cord for more than one tool, add the nameplate amperes and use the sum to determine the required minimum cord size.
- If you are using an extension cord outdoors, make sure it is marked with the suffix W-A (W in Canada) to indicate it is acceptable for outdoor use.
- Make sure your extension cord is properly wired and in good electrical condition. Always replace a damaged extension cord or have it repaired by a qualified electrician before using it.
- Protect your extension cords from sharp objects, excessive heat, and damp or wet areas.

Main Parts Description		
A	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.
B	Tool Pressure Gauge:	Indicates the outgoing air pressure to the tool and is controlled by the regulator.
C	Tank Pressure Gauge:	Indicates the reserve air pressure in the tank.
D	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.
E	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.
F	Tank Drain Valve:	Used to drain condensation from the air tank, located at bottom of tank.
G	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.
H	Check Valve:	When the pump is not in operation, the valve closes to retain air pressure inside the tank, an internal component.
I	Quick Connect:	Offers a quick release feature for attaching and removing the air hose.
J	Outlet Tube	Transfers pressurized air from the air compressor pump to the tank
K	Handle	For transportability
L	Handle Bolts	Allows attachment of handle & removal for storage
M	Wheels	Allow easy portability
N	Rubber Foot	Provides anti-vibration and stability
O	Air Tank	20 gallons (75.7 liters)

Further Functional Information

TANK SAFETY VALVE -

The safety valve automatically relieves pressure from the air tank in the event of excessive pressure build up. Safety Valve is preset at factory. Do not attempt to make any adjustments to the safety valve. Periodically pull the ring on the safety valve end to check that it is working properly.

PRESSURE -

Controlled by the red-tipped power switch which turns the air compressor on and off. When switch is pulled up to the "Auto / On" position, the pressure switch is engaged and will start the compressor pump automatically when tank pressure is below the factory-set minimum. The pressure switch continues to monitor the pressure and turns the pump off when the pressure reaches the factory-set maximum. Compressor is turned on. When pushed down, the pump is off

NOTICE *Always make sure that the compressor power switch is in the OFF position before performing any maintenance or plugging the compressor into a power supply.*

TANK DRAIN VALVE

(located on bottom of tank) - The tank drain valve can be opened to allow moisture and compressed air to be released from the air tank.

▲ WARNING *The tank drain valve should always be opened slowly to avoid damage to equipment and possible injury.*

MAIN PARTS OF AIR COMPRESSOR



fig.2

GETTING STARTED

1. Unpack the air compressor.
2. 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.
3. 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.
4. Before operating your tool, check the contents of the box to make sure you have everything you will need.

Items included in the box:

- Air Compressor
- Handle and bolts
- 2 Wheels, washers and nuts
- Owner's Manual

NOTICE Save packaging in case you need to return the compressor for servicing or repair.

ASSEMBLY

NOTICE Before performing any assembly or maintenance, make sure compressor is turned off and unplugged from the power supply.

Place compressor on level ground. It is designed to function properly at an incline of no greater than 15 degrees.

PRE-OPERATION

Before operating your air compressor:

- Inspect for damage before using the air compressor, make sure the air tank is not damaged, inspect all parts for damage, and check that all pipes and hoses are firmly connected.
- Do not use the air compressor if any damage is found. If damaged, have an authorized service center inspect and test the air compressor to ensure that it is working properly.
- Pull the ring on the safety valve before each use to make sure the valve is functional.
- Depending on the CFM draw of the tools being operated, your new air compressor can be used for operating paint sprayers, air tools, grease guns, airbrushes, caulking guns, abrasive blasters, tire & plastic toy inflation, spraying weed killer and insecticides, etc. Proper adjustment of the air pressure regulator is necessary for all of these operations. Refer to the air pressure specifications provided with the tool you are using.

GENERAL OVERVIEW

Installation and Location

Locate the compressor according to the following guidelines:

1. Position the compressor near a grounded electrical outlet.
2. The compressor must be at least 12 to 18 inches (31 - 45 cm) from any wall or obstruction which would interfere with airflow, in a clean, well-ventilated area, to ensure sufficient air flow and cooling.
3. In cold climates, store portable compressors in a heated building when not in use; a temperature-controlled area between 32° and 95° Fahrenheit (0 ° and 35 °C). This will reduce problems with the motor starting and freezing from water condensation.
4. 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.
5. The compressor is designed with heat dissipation fins which allow for proper cooling. Keep the fins (and all other parts which collect dust or dirt) clean. A clean compressor runs cooler and provides longer service. Do not place rags, containers or other material on top of the compressor. 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.

BEFORE EACH USE



- Risk of unsafe operation. Firmly grasp air hose in hand when installing or disconnecting to prevent hose whip.
- Risk of unsafe operation. Do not use damaged or worn accessories.
- Risk of bursting. Too much air pressure causes a hazardous risk of bursting. Check the manufacturer's maximum pressure rating for air tools and accessories. The regulator outlet pressure must never exceed the maximum pressure rating.

DUTY CYCLE: This air compressor pump is capable of running continuously. 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 sold separately.

Attaching an air hose

Your air compressor is supplied with a 1/4" push-connect air coupler (fig.3) . With a factory-installed air coupler, your compressor is ready to accept air hoses equipped with 1/4" male air connectors (fig 4).

NOTICE *Use only air hoses rated for use with 150 psi air pressure or higher.*

To install any air hose equipped with a 1/4" male connector (fig 4):

1. Simply push the "connector" or "plug" into the fitting and it automatically engages.
2. Verify that air hose is securely connected to air coupler by pulling on the air hose.

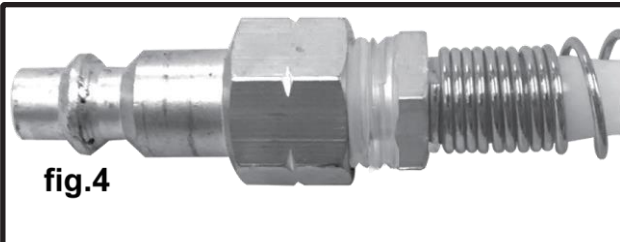


fig.4



fig.3

OPERATING INSTRUCTIONS



- Risk of bursting. If any unusual noise or vibration is noticed, stop the compressor immediately and have it checked by a trained service technician.

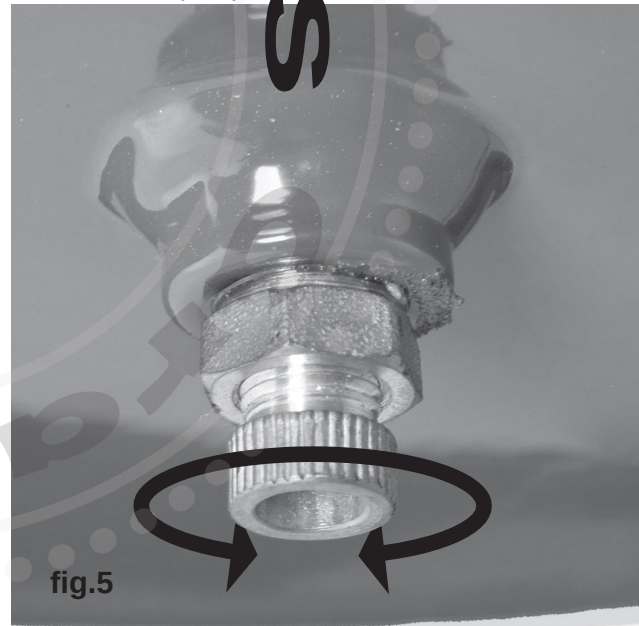
Daily start-up

1. Set the Power Switch to the OFF (0) position (A, fig.2).
2. Inspect the air compressor, air hose, and any accessories/tools being used for damage or obstruction. If any of these mentioned items need repair/replacement, contact your local authorized dealer before use.
3. Close the drain valve (F, fig 2).

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.
5. Firmly grasp the hose prior to inserting it into the quick connect and when removing it from the quick connect socket.
6. Plug the power cord into the proper receptacle.
7. Move the Power Switch to the ON (I) position (pull it up) and the compressor pump will start, building pressure in the tank until cut-out pressure is reached and the unit shuts off automatically (A).
8. 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.

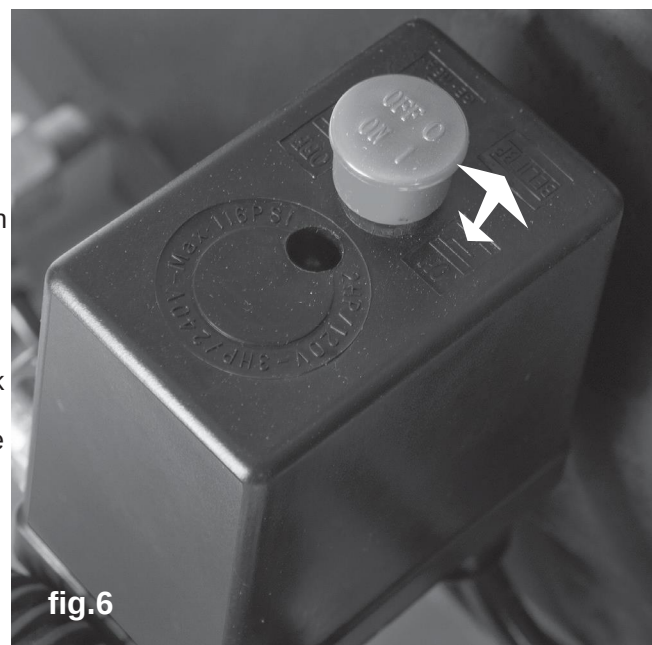
Drain Valve

- Make sure the tank drainage valve (fig.5) is closed and not in the open position.



Pressure Switch

1. Check that the red pressure switch button is pushed down to the OFF position (fig 6).
2. Ensure that the power supply you are going to use is operating normally.
3. Insert the power supply cord into the power supply socket.
4. Turn the pressure switch on, pulling the red button up to the ON position.
5. On the tank pressure gauge fig.2C), you can watch pressure build in the tank until the pump stops at the factory-set pressure, about 115 to 125 psi.
6. This first time running your compressor and periodically thereafter, check for air leaks. If the gauge indicates pressure is going down in the tank or you hear leakage, you could apply soapy water to all joints in the air transport piping. Tighten these joints if bubbles form.



Adjusting the air pressure

Your air compressor is supplied with an air pressure regulator. This regulator adjusts the air pressure supplied to the tools through the hose.

- To increase air pressure, turn air regulator knob (fig.7,E) clockwise.
- To decrease air pressure, turn air regulator knob counterclockwise.
- Use the outlet pressure gauge (fig.7,B) to see the resulting pressure.

Shutting off your compressor

1. Push the red pressure switch button down to the OFF position (fig.6).
2. Unplug the compressor from the electrical power.
3. If not draining the tank, reduce tank pressure through the air hose.
4. Drain the tank by slowly opening the drain valve (fig.5). Place a catch basin under the valve to protect the surface from water damage.

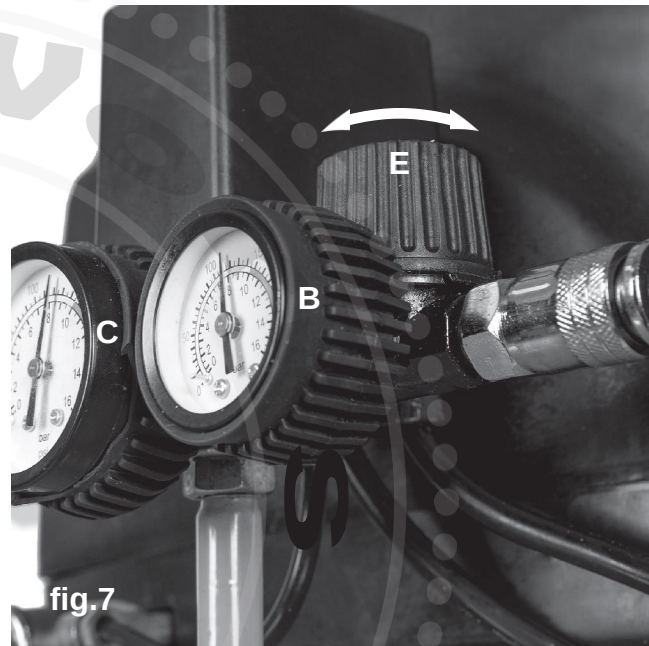


fig.7

Cold Weather Starting

Temperatures below freezing (32 °F / 0 °C) cause the metal parts of your air compressor to contract and that makes starting more difficult. To assist the air compressor in starting in cold weather, follow these tips:

1. Try to keep the air compressor stored in temperatures above 32 °F (0 °C).
2. Open the air tank drain valve and release all air pressure from the air tank before attempting to start in cold weather. (After air is released from air tank, close drain valve.)
3. Pull the ring on the safety valve before each use to make sure the valve is functional.
4. Plug the air compressor directly into a 120 volt electrical outlet. Do not use an extension cord when starting your air compressor in cold weather.

After Each Use

WARNING

- Risk of unsafe operation. Firmly grasp air hose in hand when installing or disconnecting to prevent hose whip.
- Risk of bursting. Drain air tank daily. Water will condense in air tank. If not drained, water will corrode and weaken the air tank causing a risk of air tank rupture.

Daily shut-down

1. Set the Power Switch to the OFF (0) position.
2. Unplug the power cord from the receptacle.
3. Set the outlet pressure to zero on the regulator.
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 build-up in the valve.

MAINTENANCE

NOTICE 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.



- Risk of unsafe operation. Unit cycles automatically when power is on. When performing maintenance, you may be exposed to voltage sources, compressed air, or moving parts. Personal injuries can occur. Before performing any maintenance or repair, disconnect power source from the compressor and bleed off all air pressure.
- Risk of bursting. If the safety valve does not work properly, over-pressurization may occur, causing air tank rupture or an explosion.
- Risk of burn. Tubes, pump head, and surrounding parts are very hot; do not touch these. Allow compressor to cool prior to servicing.
- Risk from flying objects. Always wear certified safety equipment: ANSI Z87.1 eye protection (CAN/CSA Z94.3 with side shields).
- Risk from noise. Use ear protection ANSI S12.6 (S3.19) as air flow noise is loud when draining.
- Risk of bursting. Water will condense in the air tank. If not drained, water will corrode and weaken the air tank causing a risk of air tank rupture.
- This compressor is equipped with an automatic reset thermal overload protector which will shut off the 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: To reset the motor overload, 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.

CHECKING THE SAFETY VALVE

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 and hearing protection, 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

To store 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, cool, dry, safe, and indoor location.

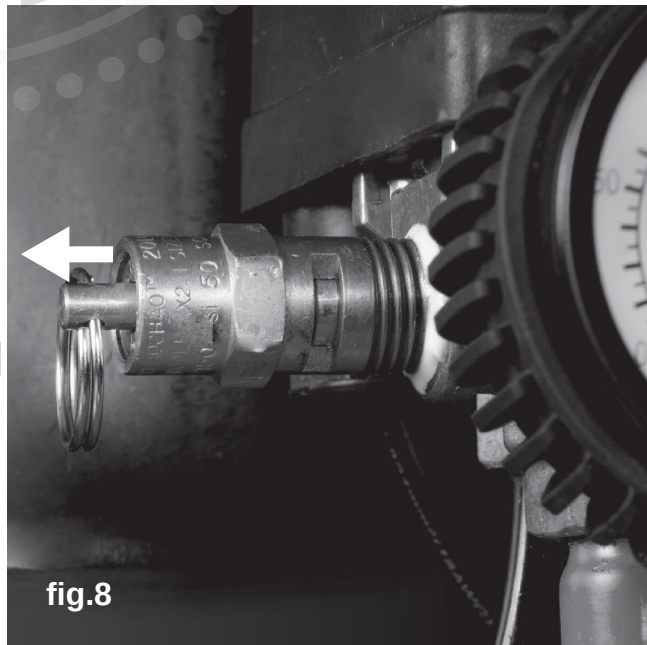


fig.8

Daily Maintenance

- Before each use,
 1. check for any unusual noise or vibration.
 2. be sure all nuts and bolts are tight.
- After each use, drain condensation from the air tank.

Monthly Maintenance

- Inspect air system for leaks by applying soapy water to all joints. Tighten these joints if leaks are discovered.

TROUBLESHOOTING

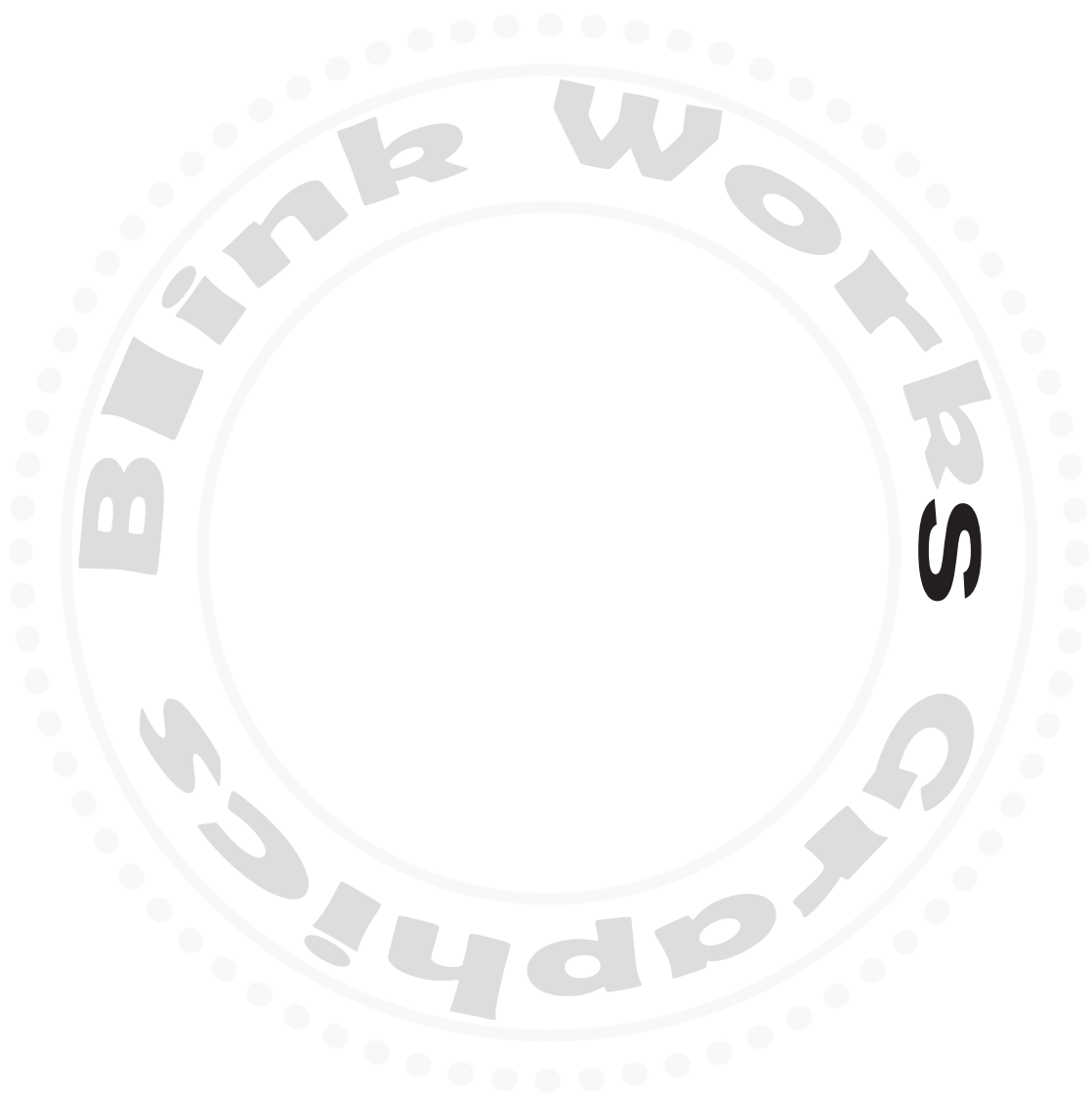
Always inspect the compressor before use, and make sure it is in good working condition. Make sure all air vents are clear. Check the power cable to make sure it is intact and free from cracks, bare wires etc. Avoid using solvents when cleaning plastic parts, most plastics are susceptible to damage from the various types of commercial solvents.

Trouble	Possible Cause	Corrective Action
Compressor will not start	1. Blown fuse or circuit breaker tripped	1. Replace or reset fuse/circuit breaker
	2. Loose electrical connections	2. Check wiring connections
Low pressure	1. Restricted air filter	1. Replace air filter
	2. Defective check valve	2. Replace check valve
	3. Air leak in safety valve	3. Check valve by pulling on ring. If condition persists, replace valve
Safety valve releases	Defective pressure switch	Replace pressure switch
Pressure in tank falls	1. Air leaks at joints	1. Allow the compressor to build pressure in the tank, to the max pressure if possible. Spray or brush soapy water on all air connections and look for bubbles. Tighten leaky connections. Do not over-tighten. 2. If the problem continues, contact customer support for further advice.
Unloader valve leaks when pump is not running	Unloader valve seal defective	Allow air in the air tank out until all pressure is released. Remove the un-loader valve plug and clean the valve seal. If damaged, replace seal and re-install.
Compressor stopped and will not re-start	1. Thermal overload protector has engaged due to motor overheating	1. Check that the main supplied voltage corresponds to the compressor specifications. An inadequate extension cord (too thin or too long) can cause the motor to overheat due to voltage drop. Excessive use (over 1 hour continuous) can cause motor overheating. Allow the motor to cool down.
	2. Motor windings burn-out	Contact customer support
Motor does not start and makes a humming sound	Capacitor burn-out	Contact customer support

TROUBLESHOOTING

Trouble	Possible Cause	Corrective Action
Motor does not start or starts slowly	Low voltage electrical supply to motor	Check that the main supplied voltage corresponds to the compressor specifications. An inadequate extension cord (too thin or too long) can cause the motor to overheat due to voltage drop. Check power quality at outlet
Compressor runs noisily and metallic sounds are heard Compressor will not come to max pressure	Head gasket or reed valve damaged.	Stop the compressor and contact customer support
Compressor doesn't provide as much air as when new and/or cuts off after a much shorter time period.	1. Tank has reduced capacity due to water retention 2. Pressure switch is out of adjustment	1. Open drain valve to release water 2. Contact customer support
Pump unit does not stop when the tank reaches maximum working pressure.	Defective or pressure switch out of adjustment	Stop the compressor immediately (risk of explosion) and contact customer support

For technical questions, please call 1-800-222-5381.



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WARRANTY

Two year limited warranty



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