



30-Gallon 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.

Item #75859

READ & SAVE THESE INSTRUCTIONS

Thank you very much for choosing a NorthStar® 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 1-888-895-4549.

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Intended Use

The NorthStar 30-Gallon Electric Air Compressor provides compressed air for air tools and pressurized objects that require high air pressure. It features:

- **Maximum Efficiency:** Heavy-duty induction motor for maximum performance and efficiency.
- **Long Lasting Operation:** Cast iron oil-lubricated pump for long service life.
- **Versatile Operation:** Dual voltage motor is wired for standard 120V outlets but can be converted to 240V applications.

Note: Do not use for low-pressure objects such as balloons, air mattresses, and sport balls, which can explode quickly and easily. Special precautions are necessary when used for cleaning to prevent flying debris hazards. It is not to be used to supply breathing air.

Packaging Contents

- Air Compressor
- Isolator C-Channel Vibration Pads (2)
- Owner's Manual
- Compressor Insert Sheet

Technical Specifications

Property	Specification
Model	NSLA1683066
Weight	165 lb. (75 kg)
Height	48"
Width	24.12"
Running HP	1.6
Tank Capacity	30 Gallons
Voltage/Amps/Phase	120/240 Volts / 15/7.5 Amps / 1 Phase
Kick-in Pressure	125 PSI (8,62 bar)
Kick-out Pressure	155 PSI (10,69 bar)
Air Delivery	5.3 CFM @ 90 PSI
	6.2 CFM @ 40 PSI
Noise Rating	77 dB
Pump Type	Belt Drive

Safety Signal Words

The definitions below describe the level of severity for each signal word. 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**.
- NOTICE:** Indicates a practice **not related to personal injury** which, if not avoided, **may** result in **property damage**.

Important Safety Information

⚠WARNING

- 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.

⚠WARNING

PROP 65

- This product can expose you to chemicals including lead, 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.
- Oil can leak or spill and could result in fire or breathing hazard; serious injury or death can result. Oil leaks will damage carpet, paint or other surfaces in vehicles or trailers. Always place compressor on a protective mat when transporting to protect against damage to vehicle from leaks. Remove compressor from vehicle immediately upon arrival at your destination. Always keep compressor level and never lie on its side.

⚠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 fit-ting 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.
- The compressor is too heavy to be lifted by one person. Obtain assistance from others before lifting.

Specific Operation Warnings

⚠WARNING

- 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. Never use compressor to inflate small low-pressure objects such as children's toys, footballs, basketballs, etc.
- 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.

Main Parts of Compressor

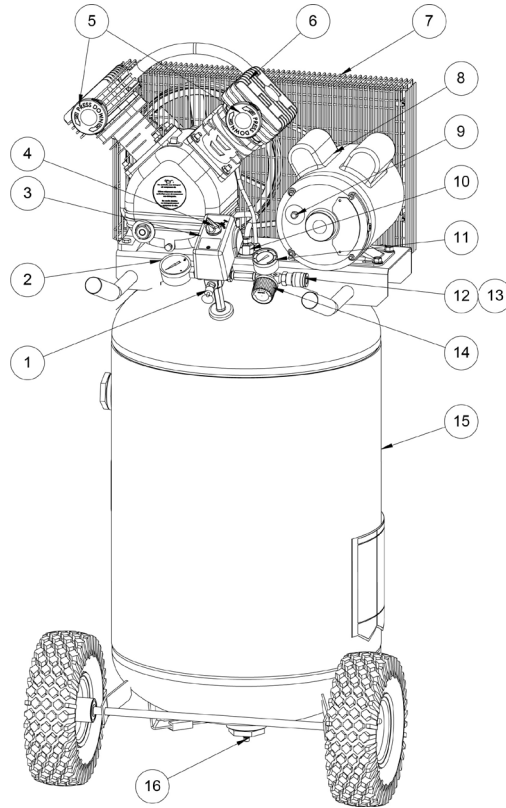


Figure A

Components	
1.	Safety Valve: This valve is designed to prevent system failures by relieving pressure from the system when the compressed air reaches a predetermined level. The valve is preset by the manufacturer and must not be removed or modified in any way.
2.	Tank Pressure Gauge: The tank pressure gauge indicates the reserve air pressure in the tank.
3.	Pressure Switch: The pressure switch automatically starts the motor when the air tank pressure drops below the factory set cut-in pressure. It stops the motor when the air tank pressure reaches the factory set cut-out pressure.
4.	Pressure Auto (-) / Off (O) Switch: Place this switch in the AUTO (-) position to provide automatic power to the pressure switch and OFF (O) to remove power at the end of each use. NOTE: ALWAYS ensure the switch is in the OFF (O) position before removing or replacing the pressure switch cover.
5.	Air Intake Filters: The filters are designed to clean air entering the pump. To ensure the pump continually receives a clean, cool, and dry air supply, the filters must always be clean and the filter intakes must be free from obstructions.
6.	Air Compressor Pump: The pump compresses air into the air tank. Working air is not available until the compressor has raised the air tank pressure above that required at the air outlet.
7.	Belt Guard: This covers the engine pulley, pump flywheel, and belt. Never operate without the belt guard in place.
8.	Motor: The electric motor powers the pump. The electric motor is equipped with an overload protector to help prevent possible motor burnout.

Components	
9.	<p>Motor Overload Protector: The motor has a thermal overload protector. If the motor overheats for any reason, the overload protector will shut off the motor. The motor must be allowed to cool down before restarting. To restart:</p> <ol style="list-style-type: none"> 1. Set the Auto/Off switch to OFF (O) and unplug unit. 2. Allow the motor to cool. 3. Depress the red reset button on the motor. 4. Plug the power cord into the correct branch circuit receptacle.
10.	<p>Check Valve: When the air compressor is operating, the check valve is open, allowing compressed air to enter the air tank. When the air compressor reaches cut-out pressure, the check valve closes, allowing air pressure to remain inside the air tank.</p>
11.	<p>Regulated Pressure Gauge: The regulated pressure gauge indicates the air pressure available at the outlet side of the regulator. This pressure is controlled by the regulator and is always less or equal to the air tank pressure.</p>
12.	<p>Universal Quick Connect Body: The universal quick connect body accepts the three most popular styles of quick connect plugs: Industrial, Automotive and ARO. One hand push-to-connect operation makes connections simple and easy.</p>
13.	<p>Air Outlet: Connect an air hose to this outlet.</p>
14.	<p>Regulator: The regulator knob controls the air pressure coming from the air tank. To adjust the regulator, turn the knob clockwise to increase regulated pressure and counter-clockwise to decrease regulated pressure.</p>
15.	<p>Air Tank: The 30 Gallon ASME tank stores the compressed air.</p>
16.	<p>Air Tank Drain Valve: The drain valve is located at the base of the air tank and is used to drain condensation at the end of each use.</p>

Hot Surfaces

⚠WARNING

- 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.

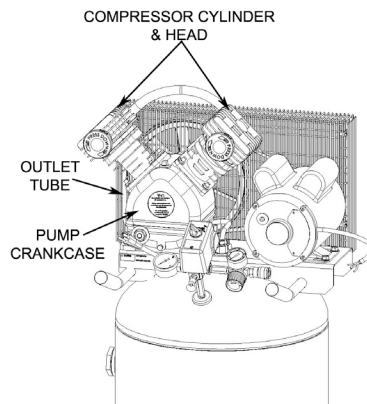


Figure B

Assembly

⚠WARNING

- This compressor was shipped with oil in the pump crankcase. Check oil before operating the air compressor.

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. The carton should contain the following:

- Air compressor
- Vibration pads (2)
- Owner's Manual
- Air Compressor Information Sheet

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.

Attaching Vibration Pads

Attach the two vibration pads to the bottom of the compressor feet as shown:

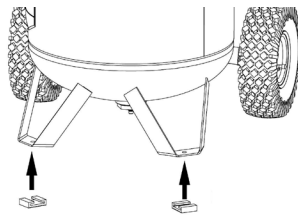


Figure C

Installing Hoses

⚠WARNING

- Risk of unsafe operation. Firmly grasp hose in hand when installing or disconnecting to prevent hose whip.

1. Ensure the regulated pressure gauge reads 0 PSI.
2. Apply sealant tape to hose threads.
3. Assemble hose to air outlet. **IMPORTANT:** Do not assemble splitters directly to the air outlet.

NOTE: Assembling quick connect bodies to air outlet and quick connect plugs to hose ends make connecting and disconnecting hoses simple and easy. Quick connect bodies and plugs are available for purchase from your local dealer or authorized service center.

Disconnecting Hoses

1. Ensure regulated pressure gauge reads 0 PSI.
2. Remove hose from air outlet.

Installation

Lubrication and Oil

The air compressor pump was filled WITH oil at the manufacturer. Check air compressor pump oil level before operating unit. See the **Compressor Pump Oil** section under *Pump Oil*.

Compatibility

Air tools and accessories that are run off the compressor must be compatible with petroleum-based products. If you suspect that a material is not compatible with petroleum products, an air line filter for removal of moisture and oil vapor in compressed air is required.

NOTE: Always use an air line filter to remove moisture and oil vapor when spraying paint.

Location

- Locate the air compressor in a clean, dry, and well-ventilated area.
- Locate the air compressor at least 12" (30.5 cm) away from the wall or other obstructions that will interfere with the flow of air.
- Locate the air compressor as close to the main power supply as possible to avoid using long lengths of electrical wiring. NOTE: Long lengths of electrical wiring could cause power loss to the motor.
- **THE AIR FILTERS MUST BE KEPT CLEAR OF OBSTRUCTIONS WHICH COULD REDUCE AIR FLOW TO THE AIR COMPRESSOR.**

Humid Areas

In frequently humid areas, moisture may form in the pump and produce sludge in the oil, causing running parts to wear out prematurely. Excessive moisture is especially likely to occur if the unit is located in an unheated area that is subject to large temperature changes. Two signs of excessive humidity are external condensation on the pump when it cools down and a milky appearance in compressor oil. You may be able to prevent moisture from forming in the pump by increasing ventilation or operating for longer intervals.

Wiring

⚠WARNING

- Improper electrical installation of this product may void its warranty and your fire insurance. Have circuit wiring performed by qualified personnel such as a licensed electrician who is familiar with the current national electrical code and any prevailing local electrical codes.
- Risk of electrical shock. Improper electrical grounding can result in electrical shock. The wiring should be done by a qualified electrician.
- **Risk of electrical shock.** Electrical wiring must be located away from hot surfaces such as manifold assembly, compressor outlet tubes, heads or cylinders.

Wiring Instructions

A qualified electrician needs to know the following before wiring:

1. The amperage rating of the electrical box should be adequate. Refer to the Technical Specifications (page 4) for this information.
2. The supply line should have the same electrical characteristics (voltage, cycle, phase) as the motor. Refer to the motor nameplate, on the side of motor, for this information.

NOTE: The wiring used must be rated for the motor nameplate voltage. Refer to local codes for recommended wire sizes, correct wire size, and maximum wire run; undersize wire causes high-amp draw and overheating to the motor.

Grounding

⚠WARNING

- 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.
- **Risk of electrical shock.** In the event of a short circuit, grounding reduces the risk of shock by providing an escape wire for the electric current. This air compressor must be properly grounded.
- Do not modify the plug provided. If it does not fit the available outlet, a correct outlet should be installed by a qualified electrician.
- Repairs to the cord set or plug **MUST** be made by a qualified electrician.

Grounding Instructions

The portable air compressor is equipped with a cord having a grounding wire with an appropriate grounding plug.

1. The cord set and plug with this unit contains a grounding pin. This plug **MUST** be used with a grounded outlet.

IMPORTANT: The outlet being used must be installed and grounded in accordance with all local codes and ordinances.

2. Ensure the outlet being used has the same configuration as the grounded plug. **DO NOT USE AN ADAPTER.**
3. Inspect the plug and cord before each use. Do not use if there are signs of damage.
4. If these grounding instructions are not completely understood, or if in doubt as to whether the compressor is properly grounded, have the installation checked by a qualified electrician.

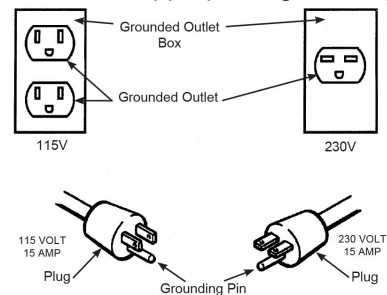


Figure D

Extension Cords

⚠WARNING

- **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.

If an extension cord must be used, be sure it is:

- 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,
- in good condition,
- plug is not worn,
- no longer than 50 feet (15.2 m),
- 12 gauge (AWG) or larger. (Wire size increases as gauge number decreases. 10 AWG and 8 AWG may also be used. **DO NOT USE 14 OR 16 AWG.**)

NOTICE: The use of an undersized extension cord will cause voltage to drop resulting in power loss to the motor and overheating. Instead of using an extension cord, increase the working reach of the air hose by attaching another length of hose to its end. Attach additional lengths of hose as needed. Always use a minimum 3/8" (9.5 mm) or greater air hose rated at 300 PSI.

- 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'
0-6	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	12 AWG	12 AWG	NOT RECOMMENDED	

- 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.

Voltage and Circuit Protection

Refer to the Voltage/Amps/Phase Requirements under Technical Specifications on page 4.

⚠ CAUTION

- Certain air compressors can be operated on a 15-amp circuit if the following conditions are met.

- Voltage supply to circuit must comply with the National Electrical Code.
- Circuit is not used to supply any other electrical needs.
- Extension cords comply with specifications.
- Circuit is equipped with a 15-amp circuit breaker or 15-amp time delay fuse. NOTE: If compressor is connected to a circuit protected by fuses, use only time delay fuses. Time delay fuses should be marked "D" in Canada and "T" in the U.S.

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

Motor Reset

⚠ WARNING

- Make sure that all guards and shrouds are in place before pressing the reset switch to restart the motor.

Motor Reset Switch

If the motor shuts down because of an overload, wait 10–15 minutes so the motor can cool down, then press (NEVER force) the reset switch (see the following Figure E) to restart the motor.

NOTE: Some models are equipped with a dual voltage motor 115/230-volt. Most models are factory wired for 115-volt operation. If conversion from 115-volt to 230-volt is required, refer to the motor nameplate and have the conversion completed by a licensed electrician.

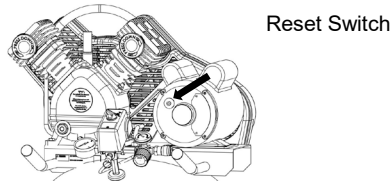


Figure E

How to Use Your Unit

⚠WARNING

- Do not operate this unit until you read this instruction manual for safety, operation, and maintenance instructions.

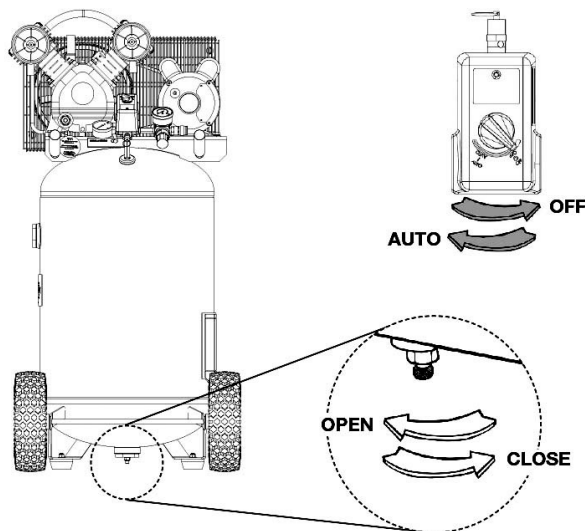


Figure F

How to Stop

Set the Auto/Off switch to OFF.

Break-In Procedure

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

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

1. Make sure the Auto/Off switch is in the OFF position.
2. Check the oil level in the pump. See the **Checking Oil** section in *Pump Oil* for instructions.
3. Plug the power cord into the correct branch circuit receptacle. (Refer to Voltage and Circuit Protection paragraph in the Grounding section of this manual.)
4. Open the drain valve (counter-clockwise) fully to permit air to escape and prevent air pressure build-up in the air tank during the break-in period.
5. Move the Auto/Off switch to the "Auto" position. The compressor will start.
6. Run the compressor for 30 minutes. Make sure the drain valve and all air lines are open so there is only a minimal air pressure build-up in the tank.

NOTE: After about 30 minutes, if the unit does not operate properly, SHUT IT DOWN IMMEDIATELY, and contact Customer Service.

7. Check all air line fittings and connections/piping for air leaks by applying a soap solution. Correct if necessary. NOTE: Minor leaks can cause the air compressor to overwork, resulting in premature breakdown or inadequate performance.
8. Check for excessive vibration.
9. After 30 minutes, turn the Auto/Off switch to the OFF position.
10. Close the drain valve.
11. Turn the Auto/Off switch to the AUTO position. The air receiver will fill to "cut-out" pressure and the motor will stop. The compressor is now ready for use.

Before Each Start-Up

⚠WARNING

- **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.

12. Place Auto/Off switch to OFF.
13. Close the drain valve.
14. Visually inspect the air lines and fittings for leaks.
15. Check safety valve. See the **Checking Safety Valve** section under *Maintenance*.
16. Turn the regulator knob counter-clockwise to set the outlet pressure to zero.
17. Attach the hose and accessories.

NOTE: The hose or accessory will require a quick connect plug.

⚠ CAUTION

- **Risk of unsafe operation.** Compressed air from the unit may contain water condensation and oil mist. Do not spray un-filtered air at an item that could be damaged by moisture. Some air tools and accessories may require filtered air. Read the instructions for the air tools and accessories.

Operating Instructions

⚠ WARNING

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

How to Start

1. Turn the Auto/Off switch to AUTO and allow the tank pressure to build. The motor will stop when the tank pressure reaches the “cut-out” pressure.
2. Turn the regulator knob clockwise to increase pressure.

IMPORTANT: When using the regulator and other accessories, refer to the manufacturer’s instructions. The compressor is ready for use.

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.

3. Move the Auto/Off switch to the OFF position. NOTE: If finished using compressor, follow steps 4-8.
4. Turn the regulator knob counter-clockwise until fully closed. Ensure the regulated pressure gauge reads 0 PSI.
5. Remove the hose and accessory.
6. Drain the air tank. See the **Draining Air Tank** section under *Maintenance*. Ensure the air tank pressure gauge reads 0 PSI.
7. Allow the compressor to cool down.
8. Wipe the air compressor clean with a clean, dry cloth and store in a safe, non-freezing area.

Maintenance

⚠WARNING

- **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. See the Hot Surfaces section with areas identified in Figure B. 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.
- Drain tank to release air pressure before removing the oil fill cap or oil drain plug.

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

Maintenance Interval	Maintenance Point
Daily	Drain air tank
	Check pump oil level
	Oil leak inspection
	Inspect drive belt
	Check for any unusual noise/vibration
	Check for air leaks*
Weekly	Inspect air filter+
	Clean compressor exterior
Monthly	Check drive belt tension
1 Year or 100 operating hours	Change pump oil **+
	Check pulley/flywheel alignment

Maintenance Interval	Maintenance Point
	* To check for air leaks, apply a solution of soapy water around joints. While compressor is pumping to pressure and after pressure cuts out, look for air bubbles to form.
	** The pump oil must be changed after the first 20 hours of operation. Thereafter, when using full synthetic, non-detergent air compressor oil, change oil every 100 hours of operation or once a year, whichever comes first.
	+ Perform more frequently in dusty or humid conditions.

Checking Safety Valve

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

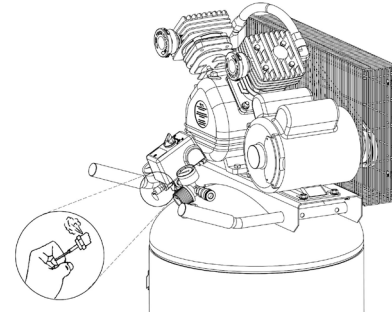


Figure G

Checking Air Filter

A dirty air filter will not allow the compressor to operate at full capacity. Keep the air filter clean at all times.

1. Ensure the Auto/Off switch is in the OFF position.
2. Allow the unit to cool.
3. Remove the two outer metal covers (A) from the base (C) by pushing in on the cover and turning counter-clockwise.
4. Check the filter elements (B). If they are dirty or filled with paint, replace them.
5. Place the outer metal covers back over the filter elements, line up the slots, and push in and turn clockwise.

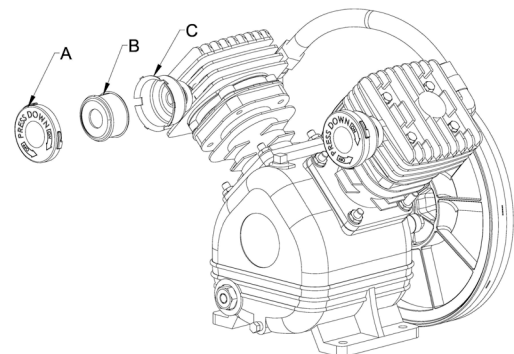


Figure H

Draining Air Tank

NOTE: All compressed air systems generate condensation that accumulates in any drain point (e.g., tanks, filter, aftercoolers, dryers). This condensate contains lubricating oil and/or substances which may be regulated and must be disposed of in accordance with local, state, and federal laws and regulations.

1. Set the Auto/Off switch to OFF.
2. Turn the regulator knob counter-clockwise to set the outlet pressure to zero.
3. Remove the air tool or accessory.
4. Pull the ring on the safety valve allowing air to bleed from the tank until tank pressure is approximately 20 PSI. Release the safety valve ring.
5. Drain the water from the air tank by opening the drain valve (counter-clockwise) on bottom of tank.

NOTICE: Risk of property damage. Drain the water from the air tank may contain oil and rust which can cause stains.

6. After the water is drained, close the drain valve (clockwise). The air compressor can now be stored.

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

Pump Oil

Compressor Pump Oil

NOTICE: Risk of property damage. Use air compressor oil only. Multi-weight automotive engine oils like 10W30 should not be used in air compressors. They leave carbon deposits on critical components, thus reducing performance and compressor life.

NOTE: Use full synthetic, non-detergent air compressor oil.

NOTE: The crankcase oil capacity is approximately 13 fluid ounces (113.6 ml).

Checking Oil

1. The oil level is in the middle of the sight glass (position E in figure I).
2. If needed, remove the oil fill plug (position D in figure I) and slowly add oil until it reaches the middle of the sight glass.

Changing Oil

1. Remove the oil fill plug (position D in figure I).
2. Remove the oil drain plug (position F in figure I) and drain oil into a suitable container.
3. Replace the oil drain plug (position F in figure I) and tighten securely.
4. Slowly add compressor oil until it reaches the middle of the sight glass (position E in figure I). NOTE: When filling the crankcase, the oil flows very slowly into the pump. If the oil is added too quickly, it will overflow and appear to be full.

⚠ CAUTION

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

5. Replace the oil fill plug (position D in figure I) and tighten securely.

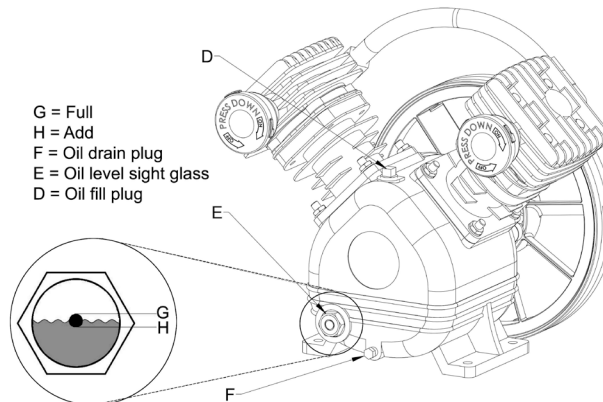


Figure I

Belt Replacement / Belt Tension / Motor Pulley & Flywheel Adjustment

⚠WARNING

- This unit starts automatically. ALWAYS shut off and unplug the compressor and bleed all pressure from the system before servicing the compressor, and when the compressor is not in use. Do not use the unit with the shrouds or belt guard removed. Serious injury could occur from contact with moving parts.
- **Hot surfaces. Risk of burn.** Pump head and surrounding parts are very hot; do not touch. See the Hot Surfaces section with areas identified in Figure B. Allow compressor to cool prior to servicing.
- **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.

Belt Replacement

1. Set the Auto/Off lever to OFF, unplug the unit, and relieve all air pressure from the air tank.
2. Remove the front of the belt guard by removing the screws (I) using a Torx T25 bit.
3. Mark the motor position on the saddle.
4. Loosen the motor mounting screws and slide the motor toward the air compressor.
5. Remove the belt and replace it with a new one.
6. See the following **Adjusting Belt Tension** section before tightening motor mounting screws.

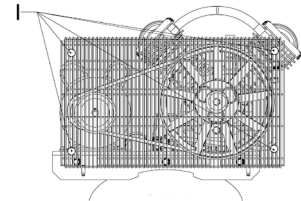


Figure J

Adjusting Belt Tension

1. Slide the motor into its original position and line the motor up with the mark made earlier on the saddle.
2. Tighten the two outside motor mounting screws enough to hold the motor in place for checking pulley and flywheel alignment.
3. The belt should deflect 1/2" (13mm) at midway between the pulley and the flywheel when a 5-pound (2.26 kg.) weight is applied at the midway point.
4. When proper belt tension is achieved, tighten all four motor mounting screws. Torque to 20-25 ft./lb. (27.1–33.9 Nm).

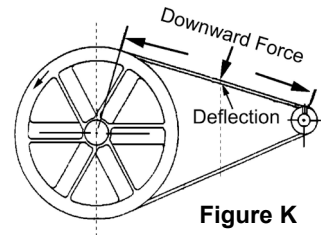


Figure K

NOTE: Once the motor pulley has been moved from its factory set location, the grooves of the flywheel and pulley must be aligned to within 1/16" (1.6mm) to prevent excessive belt wear. Verify the alignment by performing the following alignment steps.

Motor Pulley/Flywheel Alignment

NOTE: Once the motor pulley has been moved from its factory set location, the grooves of the flywheel and pulley must be aligned to within 1/16" (1.6 mm) to prevent excessive belt wear. The air compressor flywheel and motor pulley must be in-line (in the same plane) within 1/16" (1.6 mm) to assure belt retention within the flywheel belt grooves. To check alignment, perform the following steps:

1. Set the Auto/Off lever to OFF, unplug the unit, and relieve all air pressure from the air tank.
2. Remove the belt guard.
3. Place a straightedge against the outside of the flywheel and the motor drive pulley.
4. Measure the distance between the edge of the belt and the straightedge at points A1 and A2 in figure L. The difference between measurements should be no more than 1/16" (1.6 mm).
5. If the difference is greater than 1/16" (1.6 mm), loosen the set screw holding the motor drive pulley to the shaft and adjust the pulley's position on the shaft until the A1 and A2 measurements are within 1/16" (1.6 mm) of each other.
6. Tighten the motor drive pulley set screw.
7. Visually inspect the motor drive pulley to verify that it is perpendicular to the drive motor shaft. Points B1 and B2 of figure L should appear to be equal. If they are not equal, loosen the setscrew of the motor drive pulley and equalize B1 and B2.
8. Retighten the motor drive pulley setscrew. Torque to 15-20 ft.-lb. (20.3-27.1 Nm).
9. Reinstall the belt guard.

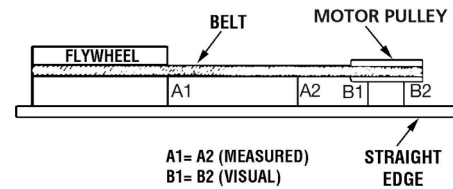


Figure L

Air Compressor Pump Intake and Exhaust Valves

Once a year, have a trained service technician inspect the air compressor pump intake and exhaust valves.

Inspect Air Lines and Fittings for Leaks

1. Set the Auto/Off lever to OFF, unplug the unit, and relieve all air pressure from the air tank.
2. Apply a soap solution to all air line fittings and connections/piping.
3. Correct any leaks found.

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

Air Compressor Head Bolts - Torqueing

The air compressor pump head bolts should be kept properly torqued. Check the torques of the head bolts after the first five hours of operation. Torque to 14-16 ft./lb. (19-22 Nm).

Service and Adjustments

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

To Replace or Clean Check Valve

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

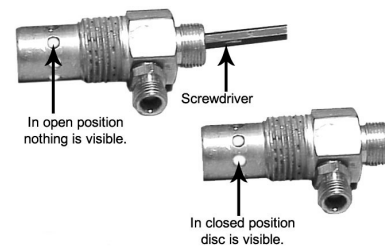


Figure M

⚠WARNING

- **Risk of bursting.** Do not drill into, weld, or otherwise modify air tank or it will weaken. The air tank can rupture or explode.

Troubleshooting

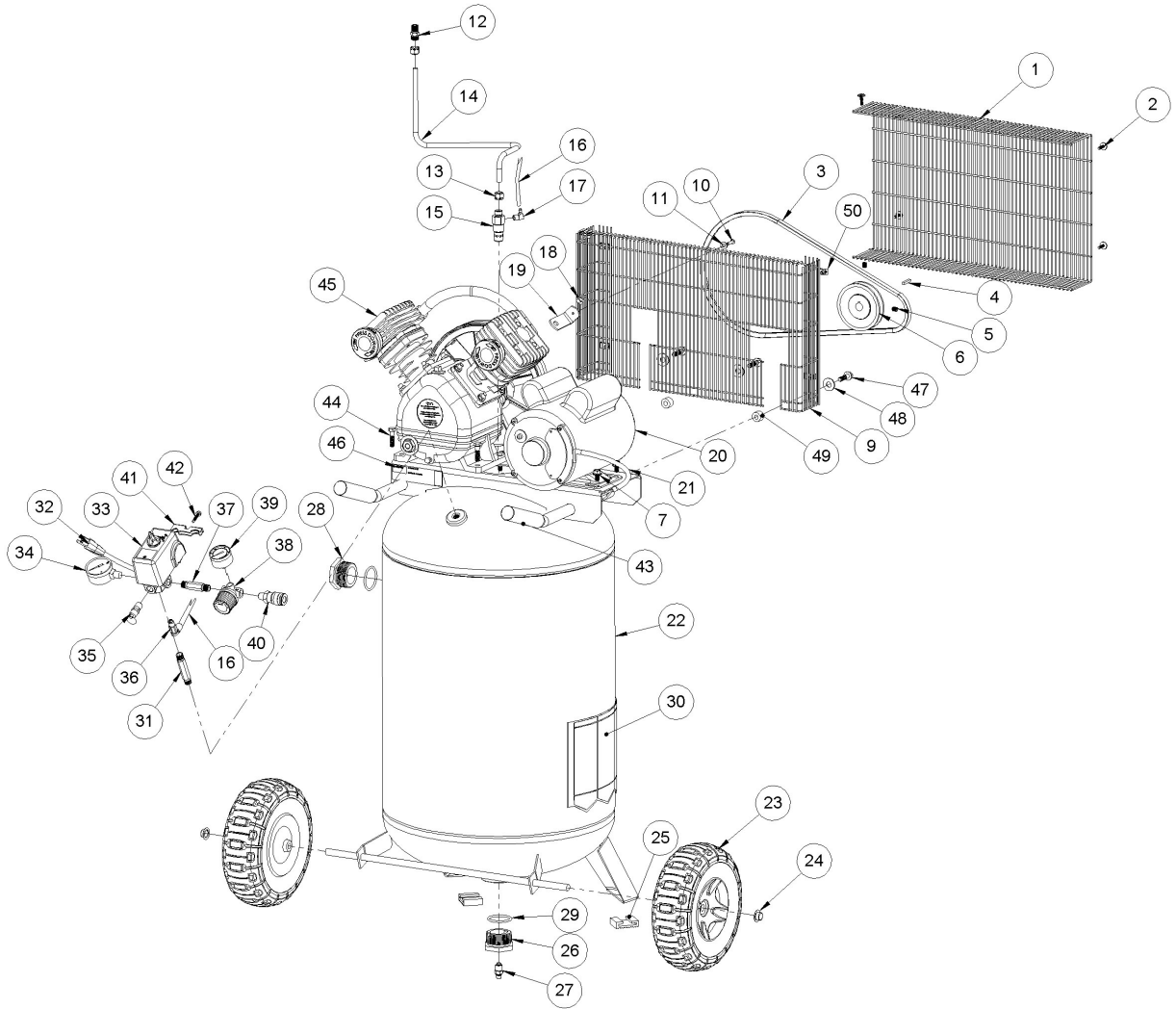
Failure	Possible Cause	Corrective Action
Air leaks	Fittings are not tight	Tighten fittings where air can be heard escaping. Check fittings with soapy water solution. DO NOT OVERTIGHTEN.
Air leaks in air tank or at air tank welds	Defective air tank	Air tank must be replaced. Do not repair the leak. Warning: Risk of bursting. Do not drill into, weld, or otherwise modify air tank or it will weaken. The air tank can rupture or explode.
Air leaks between head and valve plate	Leaking seals	Contact an authorized service center.
Air leaks from safety valve	Defective safety valve	Operate safety valve manually by pulling on ring. If valve still leaks, it must be replaced.
Compressor is not supplying enough air to operate accessories	Fittings are not secure and tight	Tighten fittings where air can be heard escaping. Check fittings with soapy water solution. DO NOT OVERTIGHTEN.
	Prolonged excessive use of air	Decrease amount of air usage.
	Compressor is not large enough for accessory	Check the accessory air requirement. If it is higher than the SCFM or pressure supplied by your air compressor, a larger compressor is needed to operate accessory.
	Hole in air hose	Check and replace air hose, if required.
	Restricted air intake filter	Clean or replace air intake filter.
	Loose belt	Check the belt tension. See Adjusting Belt Tension under Belt Replacement / Belt Tension / Motor Pulley & Flywheel Adjustment.
Restricted air intake	Restricted air intake filter	Clean or replace air intake filter.
Oil in discharge air	Restricted air intake filter	Clean or replace air intake filter.
	Piston rings are damaged or worn	Contact an authorized service center.

Failure	Possible Cause	Corrective Action
	Oil level is too high	Reduce oil to proper level. See Compressor Pump Oil under Pump Oil.
Knocking sound	Defective safety valve	Operate safety valve manually by pulling on the ring. If the valve still leaks, it must be replaced.
	Loose belt	Check belt tension. See Adjusting Belt Tension under Belt Replacement / Belt Tension / Motor Pulley & Flywheel Adjustment.
	Loose pulley	Tighten pulley set screw, torque to 15-20 ft./lb. (20.3-27.1 Nm).
	Loose flywheel	Tighten flywheel screw, torque to 14–18 ft./lb. (20.0–24.4 Nm).
	Carbon build-up in pump	Contact an authorized service center.
	Belt too tight	Check belt tension. See Adjusting Belt Tension under Belt Replacement / Belt Tension / Motor Pulley & Flywheel Adjustment.
	Pump oil is low	Add full synthetic, non-detergent air compressor oil to pump. See Compressor Pump Oil under Pump Oil.
Excessive belt wear	Loose belt	Check belt tension. See Adjusting Belt Tension under Belt Replacement / Belt Tension / Motor Pulley & Flywheel Adjustment.
	Loose pulley	Tighten flywheel screw, torque to 14–18 ft./lb. (20.0–24.4 Nm).
	Belt too tight	Check belt tension. See Adjusting Belt Tension under Belt Replacement / Belt Tension / Motor Pulley & Flywheel Adjustment.
	Pulley misalignment	See Motor Pulley/Flywheel Alignment under Belt Replacement / Belt Tension / Motor Pulley & Flywheel Adjustment.
Squealing sound	Loose belt	Check belt tension. See Adjusting Belt Tension under Belt Replacement / Belt Tension / Motor Pulley & Flywheel Adjustment.

Failure	Possible Cause	Corrective Action
Moisture in pump crankcase	Fittings are not tight	Tighten fittings where air can be heard escaping. Check fittings with soapy water solution. DO NOT OVERTIGHTEN.
	Leaking seals	Contact an authorized service center.
	Unit operating in damp or humid conditions	Move unit to a dry, well-ventilated area.
	Detergent type oil being used in pump	Drain oil and refill pump with full synthetic, non-detergent air compressor oil.
	Extremely light duty cycles	Run unit for longer duty cycles. It is recommended to run at high throttle 50-75% of the run time and idle for 25% of the run time.
	Piston rings damaged or worn	Contact an authorized service center.
	Cylinder or piston damaged or worn	Contact an authorized service center.
	Compressor cylinder finish worn	Contact an authorized service center.
	Water in pump oil	Drain oil and refill pump with full synthetic, non-detergent air compressor oil.
Moisture in pump crankcase	Belt too tight	Check belt tension. See Adjusting Belt Tension under Belt Replacement / Belt Tension / Motor Pulley & Flywheel Adjustment.
	Low voltage or motor is overloaded	Check that the power supply is adequate and that compressor is on a dedicated circuit. If using an extension cord, try operating without. If the compressor is connected to a circuit protected by a fuse, use dual element time delay fuses (Buss Fusetron™ type "T" only).
	Restricted air passages	Inspect and replace the transfer tubes or check valve, as required.
Compressor won't start in cold temperatures	Detergent type oil being used in pump	Drain the oil and refill the pump with full synthetic, non-detergent air compressor oil.
	Too much back pressure in tank	Open the drain valve when starting the motor.
	Compressor is too cold	Move the compressor to a warmer location.

Failure	Possible Cause	Corrective Action
Pressure reading on the regulated pressure gauge drops when an accessory is used.	Regulator is not adjusted correctly for accessory being used.	It is normal for some pressure drop to occur when an accessory is used. Adjust the regulator as instructed (see the Components table under <i>Main Parts of Compressor</i>) if the pressure drop is excessive. NOTE: Adjust the regulated pressure under flow conditions while the accessory is being used.
Regulator knob has continuous air leak	Damaged regulator	Replace regulator.
Regulator will not shut off air outlet	Damaged regulator	Replace regulator.
Air tank pressure will not build	Regulator open	Rotate the regulator knob counter-clockwise to its built-in stop.
Compressor stalls	Low voltage motor	Furnish adequate power.
	Check valve is in poor condition	Replace check valve.
	Seized pump	Contact an authorized service center.
Overheating	Restricted air passages	Inspect and replace transfer tubes or check valve, as required.
	Poor ventilation	Relocate compressor to an area with cool, dry, well-circulated air, at least 12 inches from nearest wall.
	Dirty cooling surfaces	Clean all cooling surfaces thoroughly.

Air Compressor Parts Diagram



Air Compressor Parts List

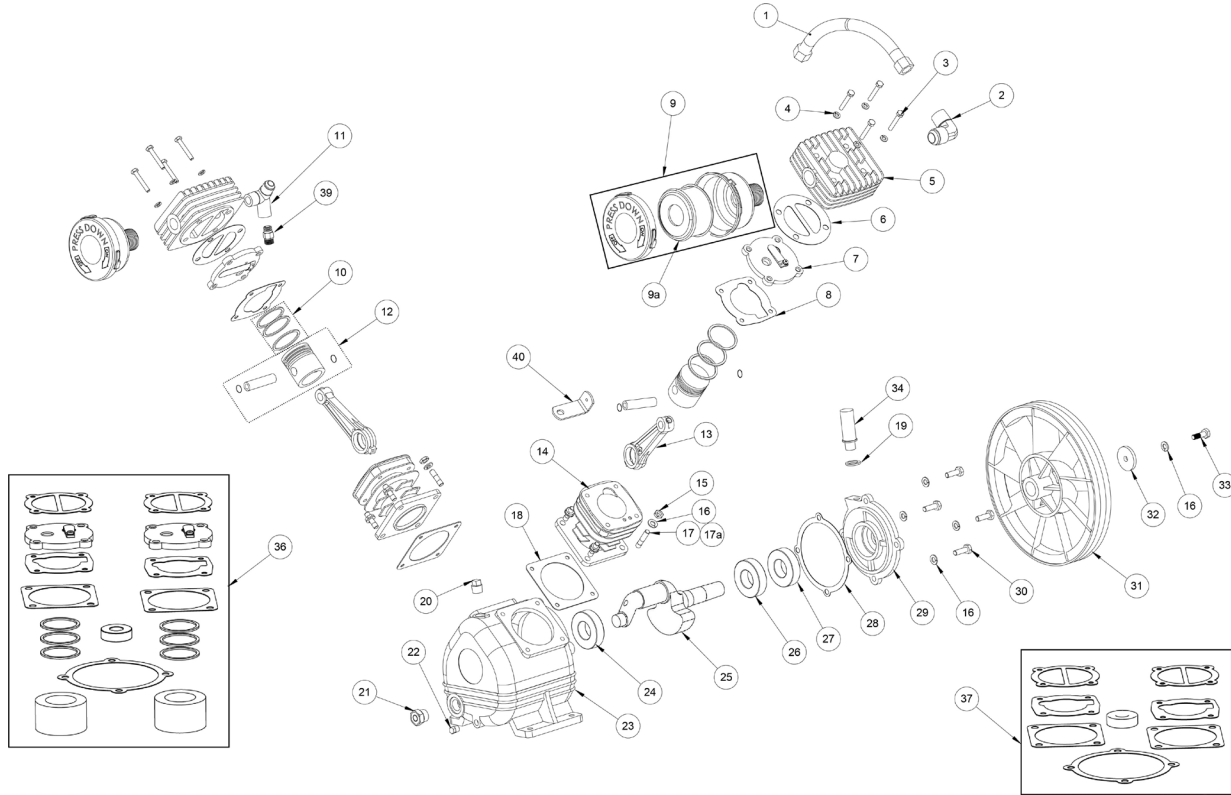
Reference	Part Number	Part Description	Quantity
1	125-0175	Belt guard, outer wire	1
2	061-0255	Screw, 5M x 20mm	5
3	007-0010	V-belt, 4L-460	1
4	146-0016	Key	1
5	061-0238	Setscrew, 5/16"-18	2
6	006-0174	Pulley	1
7	059-0012	Bolt, 5/16 x 1/2	4
9	125-0174	Belt guard, inner, wire	1
10	061-0212	Screw, #10-32 x 3/4"	1
11	060-0146	Washer, #10	1
12	068-0092	Connector	1
13	058-0007	Nut, 3/8" O.D. tube	2

Reference	Part Number	Part Description	Quantity
14	145-0478	Tube, transfer	1
15	031-0037	Check valve, 1/2" x 3/8"	1
16	145-0324	Tube, bleeder 1/4" x 28"	1
17	064-0056	Elbow, 90° brass	1
18	058-0174	Nut, M8	1
19	114-0619	Bracket, belt guard	1
20	160-0345	Motor (BT198K18.00M) (See capacitor table below)	1
or	160-0360	Motor (5KCR160DXP0023Y) (See capacitor table below)	1
or	160-0355	Motor (56S34D2M) (See capacitor table below)	1
21	026-0233	Cord, interconnect	1
22	153-0153	Tank assembly (includes items 23-30 and 43)	1
23	095-0096	Wheel, pneumatic	2
24	033-0001	Hub cap 1/2"	2
25	094-0029	Pad	2
26	512-0035	Bushing, 1-1/2 NPSM x 1/4 NPT	1
27	072-0006	Petcock	1
28	512-0039	Pipe plug, 1-1/2 NPSM	1
29	513-0002	O-ring 1-1/2	2
30	098-3870	Label, warning	1
31	065-0005	Nipple, 1/4" x 2-1/2"	1
32	026-0030	Cord, power	1
33	034-0184	Switch, pressure (includes items 36, 41, and 42)	1
34	032-0144	Gauge, 300# 1/4" bottom connect	1
35	136-0077	Valve, ASME	1
36	136-0090	Valve, bleeder	1
37	065-0004	Nipple, 1/4" x 2"	1
38	019-0167	Regulator	1
39	032-0145	Gauge, 255# 1/8" back connect	1
40	036-0031	Quick connect coupler	1
41	071-0033	Strain relief	1
42	061-0216	Screw	1
43	093-0031	Handle grip	2
44	059-0010	Bolt, 5/16 x 1-1/4	4
45	S040-0469	Pump assembly	1
46	098-2856	Label, warning	1
47	059-0410	Bolt, 5/16-18 x 1.25	3
48	060-0023	Washer, 3/8	3
49	060-0217	Spacer	3
50	103-0205	U-nut, spring	5

CAPACITORS				
	Start capacitor	Start capacitor cover	Run capacitor	Run capacitor cover
160-0345 Motor Capacitors	166-0198 (BT198K18-166-0198)	166-0200 (BT198K18-166-0200)	166-0199 (BT198K18-166-0199)	166-0200 (BT198K18-166-0200)
160-0360 Motor Capacitors	166-0215 (81.409.1.18)	166-0217 (81.14.1.16)	166-0216 (81.409.2.112)	166-0217 (81.14.1.16)

160-0355 Motor Capacitors	166-0208 (2901)	166-0210 (1401)	166-0209 (1501)	166-0210 (1401)
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Pump Parts Diagram



Pump Parts List

Reference	Part Number	Part Description	Quantity
1	145-0486	Tube with compression nuts	1
2	065-0107	Elbow	1
3	061-0238	Socket head cap screw, M6 x 40mm	8
4	060-0224	Washer, M6	8
5	042-0121	Head, cylinder	2
6	046-0302	Gasket, cylinder head	2
7	043-0207	Valve plate assembly (includes items 6 and 8)	2
8	046-0303	Gasket, cylinder	2
9	019-0305	Filter assembly (includes item 9A)	2
9A	019-0328	Filter element	2
10	054-0250	Ring set	2
11	069-0028	Tee fitting	1
12	048-0121	Piston assembly	2
13	047-0099	Rod	2
14	050-0065	Cylinder	2

Reference	Part Number	Part Description	Quantity
15	058-0188	Nut, Hex M8	8
16	060-0222	Lock washer, M8	13
17	059-0420	Stud bolt, M8 x 32	8
17a	059-0460	Stud bolt, M8 x 35	1
18	046-0304	Gasket, crankcase	2
19	060-0195	Washer, breather	1
20	056-0078	Oil fill plug	1
21	032-0126	Oil sight glass with O-ring	1
22	062-0066	Oil drain plug	1
23	049-0061	Crankcase	1
24	051-0103	Bearing, ball 204	1
25	053-0107	Crankshaft	1
26	051-0104	Bearing, ball 205	1
27	046-0306	Oil seal	1
28	046-0364	Gasket, front cover	1
29	045-0059	Carrier	1
30	059-0415	Bolt, M8 x 20	4
31	044-0082	Flywheel, A groove	1
32	060-0225	Washer, flat	1
33	059-0416	Bolt, M8 x 35	1
34	056-0079	Breather (includes item 19)	1
35	146-0026	Key (not shown)	1
36	165-0277	Overhaul kit (includes items 6-8, 9A, 10, 18, 27 and 28)	1
37	046-0307	Gaskets, complete set (includes items 6, 8, 18, 27 and 28)	1
38	S040-0469	Pump assembly (includes items 1-40)	1
39	068-0092	Connector	1
40	114-0619	Bracket	1

Replacement Parts

- For replacement parts and technical questions, please call Customer Service at 1-888-895-4549.
- Not all product components are available for replacement. The illustrations provided are a convenient reference to the location and position of parts in the assembly sequence.
- When ordering parts, the following information will be required: item description, item model number, item serial number/item lot date code, and the replacement part reference number.
- The distributor reserves the rights to make design changes and improvements to product lines and manuals without notice.

Limited Warranty

Dear Valued Customer:

The NorthStar® Product you just purchased is built with the finest material and craftsmanship. Use this product properly and enjoy the benefits from its high performance. By purchasing a NorthStar® product, you show a desire for quality and durability. Like all mechanical equipment, this unit requires a due amount of care. Treat this unit like the high-quality piece of machinery it is. Neglect and improper handling may impair its performance. Please thoroughly read the instructions and understand the operation before using your product. Always contact NorthStar® Product Support at 1-888-895-4549 prior to having any service or warranty work performed, as some services performed by parties other than NorthStar® approved service centers may void this warranty. This warranty is in lieu of any other warranty expressed or implied and NorthStar® assumes no other responsibility or liability outside that expressed within this warranty.

Limited Warranty

NorthStar® shall warranty any piece of equipment manufactured, or parts of equipment manufactured, to be free from defects in material or workmanship for a period of:

NorthStar® Warranty		
Item #	Consumer Warranty Period	Commercial Warranty Period
75859	4 years from date of purchase by user	2 years from date of purchase by user

“Consumer use” means personal residential household use by a consumer. “Commercial use” means all other uses, including use for commercial, income producing, or rental purposes or when purchased by a business.

This warranty applies to the original purchaser of the equipment (verification of purchase, in the form of a receipt, is the responsibility of the buyer), is non-transferable, and covers parts and labor. Parts will be replaced or repaired at no charge, except when the equipment has failed due to lack of proper maintenance. If a part is no longer available, the part may be replaced with a similar part of equal function. Any misuse, abuse, alteration, or improper installation or operations will void warranty. Determining whether a part is to be replaced or repaired is the sole decision of NorthStar®. NorthStar® will not provide for replacement of complete products due to defective parts. Any costs incurred due to replacement or repair of items outside of a NorthStar® approved facility is the responsibility of the buyer and not covered under warranty. Transportation costs to and from the service center is the responsibility of the customer. For technical repairs, a service center may be dispatched to conduct the repair on-site.

In addition to the normal warranty, NorthStar® shall warrant any normal wear item from defects in material or workmanship for a period of 90 days from the date of purchase by user. Normal wear items include, but are not limited to, 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.

This warranty specifically excludes the following items: 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. Additional exclusions include: loss of running time, inconvenience, loss of income, or loss of use. Additional exclusions include: failure of parts due to damage caused by accident, fire, flood, windstorm, or acts of God, Applications not approved by NorthStar® in writing, corrosion caused by chemicals, use of replacement parts which do not conform to manufacturer’s specifications, and damage related to rodent and/or insect infestation and damage caused by vandalism.

EXCEPT AS PROVIDED HEREIN, NORTHSTAR® BY AND THROUGH ITS OWNER NORTHERN TOOL & EQUIPMENT COMPANY, INC. ("NTE") HEREBY DISCLAIMS ALL WARRANTIES (WHETHER EXPRESS, STATUTORY, OR IMPLIED) INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT. YOU AGREE THAT YOUR SOLE AND EXCLUSIVE REMEDY UNDER THIS LIMITED WARRANTY SHALL BE THE REPAIR OR REPLACEMENT OF YOUR NORTHSTAR® PRODUCT, AT NTE'S DISCRETION. NTE SHALL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL, DIRECT, INDIRECT, OR PUNITIVE DAMAGES ARISING OUT OF YOUR USE OF THE NORTHSTAR® PRODUCT.

You should also be aware of the following:

- 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.
- Power Equipment needs periodic parts and service to perform well, and this warranty does not cover instances when normal use has exhausted the life of a component or the motor.

This warranty does not cover any personal injury or damage to surrounding property caused by failure of any part. Repair or replacement of parts does not extend the warranty period.

Please fill in the following information and have it on hand when you call for a warranty claim.

Customer Number: _____

Date of Purchase: _____

NorthStar® Serial Number: _____

Item Number: _____



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