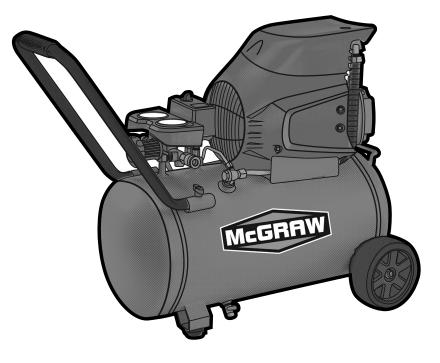
## **Owner's Manual & Safety Instructions**

**Save This Manual** Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference.



## 10 GALLON OIL LUBE PORTABLE AIR COMPRESSOR



Visit our website at: http://www.harborfreight.com Email our technical support at: productsupport@harborfreight.com

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When unpacking, make sure that the product is intact and undamaged. If any parts are missing or broken, please call 1-888-866-5797 as soon as possible.

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### 

Read this material before using this product. Failure to do so can result in serious injury. SAVE THIS MANUAL.

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WARNING SYMBOLS AND DEFINITIONS			
	This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.		
	Indicates a hazardous situation which, if not avoided, will result in death or serious injury.		
	Indicates a hazardous situation which, if not avoided, could result in death or serious injury.		
<b>A</b> CAUTION	Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.		
NOTICE CAUTION	Addresses practices not related to personal injury.		

## **IMPORTANT SAFETY INFORMATION**

### **General Safety Warnings**



#### WARNING Read all safety warnings and instructions.

Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury. Save all warnings and instructions for future reference.

The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

#### 1. Work area safety

- a. Keep work area clean and well lit. Cluttered or dark areas invite accidents.
- b. Do not operate the Compressor in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Compressor motors produce sparks which may ignite the dust or fumes.
- c. Keep children and bystanders away from an operating compressor.

#### 2. Electrical safety

- a. Compressor plugs must match the outlet. Never modify the plug in any way.
   Do not use any adapter plugs with grounded compressors. Standard plugs and matching outlets will reduce risk of electric shock.
- b. Do not expose compressor to rain or wet conditions. Water entering a compressor will increase the risk of electric shock.
- c. Do not abuse the cord. Never use the cord for unplugging the compressor. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.

MAINTENANCI

#### 3. Personal safety

- a. Stay alert, watch what you are doing and use common sense when operating this compressor. Do not use this compressor while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating a compressor may result in serious personal injury.
- b. Use personal protective equipment. Always wear ANSI-approved eye protection during setup and use.
- c. Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source or moving the compressor.
- 4. Compressor use and care
  - a. Do not use the compressor if the switch does not turn it on and off. Any compressor that cannot be controlled with the switch is dangerous and must be repaired.
  - b. Disconnect the plug from the power source before making any adjustments, changing accessories, or storing the compressor. Such preventive safety measures reduce the risk of starting the compressor accidentally.

### Air Compressor Safety Warnings

- 1. Risk of fire or explosion do not spray flammable liquid in a confined area or towards a hot surface. Spray area must be well-ventilated. Do not smoke while spraying or spray where spark or flame is present. Arcing parts - keep compressor at least 20 feet away from explosive vapors, such as when spraying with a spray gun.
- 2. Risk of bursting do not adjust regulator higher than marked maximum pressure of attachment.
- 3. Risk of injury do not direct air stream at people or animals.
- 4. Do not use to supply breathing air.
- 5. Do not leave compressor unattended for an extended period while plugged in. Unplug compressor after working.
- 6. Keep compressor well-ventilated. Do not cover compressor during use.
- 7. Drain Tank daily and after use. Internal rust causes tank failure and explosion.
- 8. Add correct amount of compressor oil before first use and every use. Operating with low or no oil causes permanent damage and voids warranty.
- 9. Do not remove the valve cover or adjust internal components.
- 10. Compressor head gets hot during operation. Do not touch it or allow children nearby during or immediately following operation.

11. Do not use the air hose to move the compressor.

c. Store an idle compressor out of the reach of children and do not allow persons

unfamiliar with the compressor or these

instructions to operate it. A compressor is

dangerous in the hands of untrained users.

compressor clean for better and safer

performance. Follow instructions for lubricating and changing accessories.

parts, breakage of parts and any other

**repaired before use.** Many accidents are caused by a poorly maintained compressor.

e. Use the compressor in accordance with

these instructions, taking into account

the working conditions and the work to

be performed. Use of the compressor for

**qualified repair person using only identical replacement parts.** This will ensure that the safety of the compressor is maintained.

operations different from those intended

could result in a hazardous situation.

a. Have your compressor serviced by a

Keep dry, clean and free from oil and grease.

Check for misalignment or binding of moving

condition that may affect the compressor's

operation. If damaged, have the compressor

d. Maintain the compressor. Keep the

12. Release the pressure in the storage tank before moving.

5. Service

- 13. The use of accessories or attachments not recommended by the manufacturer may result in a risk of injury to persons.
- All air line components, including hoses, pipe, connectors, filters, etc., must be rated for a minimum working pressure of 150 PSI, or 150% of the maximum system pressure, whichever is greater.
- 15. USE OF AN EXTENSION CORD IS NOT RECOMMENDED. If you choose to use an extension cord, use the following guidelines:

#### TABLE A: RECOMMENDED MINIMUM WIRE GAUGE FOR EXTENSION CORDS (120 VOLT)

NAMEPLATE AMPERES	EXTENSION CORD LENGTH			
(at full load)	25′	50'	100′	150′
0 - 6	18	16	16	14
6.1 – 10	18	16	Do no	ot use.
10.1 – 12	16	16	Do no	ot use.
12.1 – 16	14	12	Do no	ot use.

- a. Make sure your extension cord is in good condition.
- b. Be sure to use an extension cord which is 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 overheating. Table A shows the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.
- 16. Industrial applications must follow OSHA guidelines.

- 17. Maintain labels and nameplates on the compressor. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.
- This product is not a toy. Keep it out of reach of children.
- 19. Operate unit on level surface. Check oil level daily and fill to marked level if needed.
- 20. People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to heart pacemaker could cause pacemaker interference or pacemaker failure.

## SAVE THESE INSTRUCTIONS.

### Grounding

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TO PREVENT ELECTRIC SHOCK AND DEATH

FROM INCORRECT GROUNDING WIRE CONNECTION:

Check with a qualified electrician if you are in doubt as to whether the outlet is

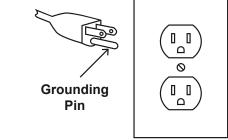
properly grounded. Do not modify the power cord plug provided with the compressor. Never remove the grounding prong from the plug. Do not use the compressor if the power cord or plug

is damaged. If damaged, have it repaired by a service facility before use. If the plug will not fit the outlet, have a proper outlet installed by a qualified electrician.

### 110-120 VAC Grounded Compressors: Compressors with Three Prong Plugs

- In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This compressor is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.
- Do not modify the plug provided if it will not fit the outlet, have the proper outlet installed by a qualified electrician.
- Improper connection of the equipment-grounding conductor can result in a risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipmentgrounding conductor to a live terminal.
- Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the compressor is properly grounded.
- Use only 3-wire extension cords that have 3-prong grounding plugs and 3-pole receptacles that accept the compressor's plug.

 Repair or replace damaged or worn cord immediately.



## 125 VAC 3-Prong Plug and Outlet (for up to 125 VAC and up to 15 A)

- This compressor is intended for use on a circuit that has an outlet that looks like the one illustrated above in 125 VAC 3-Prong Plug and Outlet. The compressor has a grounding plug that looks like the plug illustrated above in 125 VAC 3-Prong Plug and Outlet.
- 8. The outlet must be properly installed and grounded in accordance with all codes and ordinances.
- 9. Do not use an adapter to connect this compressor to a different outlet.

### Symbology

PSI	Pounds per square inch of pressure	
CFM	Cubic Feet per Minute flow	
SCFM	Cubic Feet per Minute flow at standard conditions	
NPT	National pipe thread, tapered	
NPS	National pipe thread, straight	

	Double Insulated
V	Volts
~	Alternating Current
Α	Amperes

### Specifications

Electrical Rating		120VAC / 60Hz / 14A		
		(Dedicated circuit recommended)		
Air Outlet Size		1/4″ -18 NPT		
Shut-off		135 PSI		
Air Pressure	Restart	105 PSI		
Air Tank Capacity		10 Gallons		
Air Flow Capacity		4.0 SCFM @ 90 PSI		
Sound Level		85 dBA @3'		
Oil Capacity		5.6 oz.		
Oil Type		SAE 30W non-detergent air compressor oil		

#### Installation



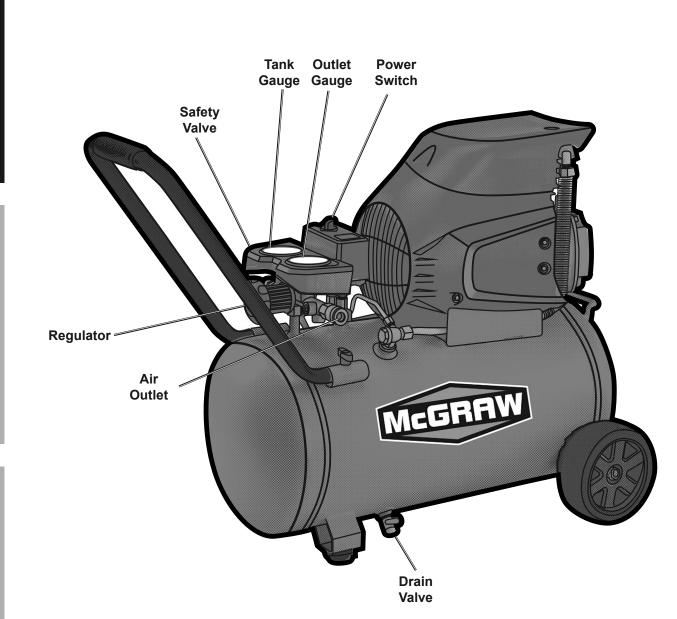
Read the <u>ENTIRE</u> IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

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TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION: Turn the Power Switch "OFF" and unplug the Air Compressor from its electrical outlet before assembling or making any adjustments to the compressor.

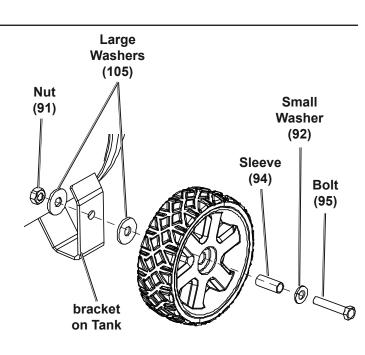
**Note:** For additional information regarding the parts listed in the following pages, refer to the Assembly Diagram near the end of this manual.

### Functions



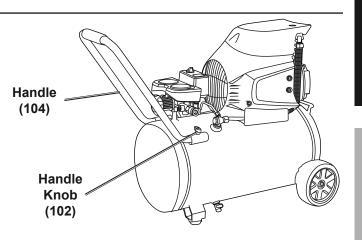
### **Attach Tires**

- 1. Slide Small Washer (92) and Sleeve (94) onto Bolt (95), then insert Bolt through Tire.
- 2. Slide Large Washer (105) onto Bolt, then slide Bolt through hole in bracket.
- 3. Secure Bolt with Large Washer and Nut (91), tighten securely.
- 4. Repeat for other Tire.



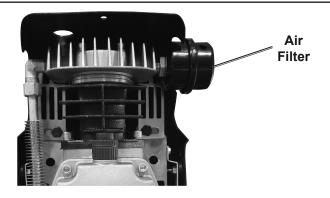
### Attach Handle

Attach Handle (104) to Tank with Handle Knobs (102).



### **Install Air Filter**

Thread the Air Filter onto the side of the Pump/Motor Assembly.

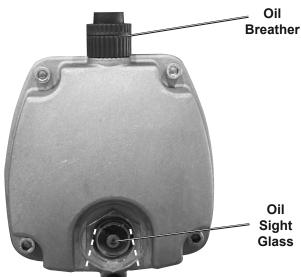


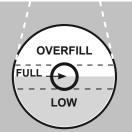
### **Checking the Oil**

 Check the oil level before operation. Fill the Pump Crankcase with included SAE 30W, non-detergent, Air Compressor Oil.

# **IMPORTANT:** Running the Air Compressor with no oil or low oil will cause damage to the equipment and void the warranty.

 The oil level should be at the center of the "full" level on the Oil Sight Glass. Add oil as needed to maintain this level. Do not let the oil level go below the center dot and do not overfill the oil so that it is above the center dot.





- Breaking in the Compressor
- 1. Turn the Power Switch OFF and unplug Power Cord.
- 2. Fully open Drain Valve.
- 3. Plug in the Power Cord.
- 4. Turn the Power Switch ON.

### Air Connection Setup

 Connect a 1/4" NPT air hose (sold separately) to the Air Outlet. The air hose must be long enough to reach the work area with enough extra length to allow free movement while working.

- 3. To add oil:
  - a. Remove the Oil Breather.
  - b. Using a funnel to avoid spills, pour enough oil into the Pump Crankcase to reach the "full" level in the Oil Sight Glass.
  - c. Replace the Oil Breather.

<u>Note:</u> SAE 30W, non-detergent, Air Compressor Oil (sold separately) is recommended for use with this compressor.

- 4. If uncertain which oil to use for this compressor, call Harbor Freight Tools customer service at 1-888-866-5797 for assistance.
- 5. Change the compressor oil after the first hour of use to remove any debris.

<u>CAUTION!</u> TO PREVENT INJURY FROM BURNS: Do not add or change the oil while the compressor is in operation. Allow the compressor to cool before replacing oil.

- 5. Let the unit run for 30 minutes. Air will expel freely through the Drain Valve.
- 6. Turn the Power Switch OFF.
- 7. Unplug the Power Cord and close Drain Valve.
- 2. Consult air tool's manual for needed accessories.

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#### **Operating Instructions**



Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

### **Compressor Area Set Up**

- Designate a work area that is clean and well-lit. 1 The work area must not allow access by children or pets to prevent injury.
- 2. Locate the Compressor on a flat level surface to ensure proper pump lubrication and to prevent damage to the unit. Keep at least 12" of space around the unit to allow air circulation.

### **General Operation**

- 1. Close the Drain Valve.
- 2. Check for oil leaks and check the oil level (See Checking the Oil on page 8).
- 3. Close the in-line Shutoff Valve between the compressor and the air hose.
- 4. Plug the Power Cord into a grounded 120 VAC electrical outlet.
- 5. Pull the ring on Safety Valve to release pressure.
- 6. Turn the Power Switch to AUTO.
- 7. Allow the Air Compressor to build up pressure until it cycles off.

Note: At the beginning of the day's first use of the Air Compressor, check for air leaks by applying soapy water to connections while the Air Compressor is pumping and after pressure cutout. Look for air bubbles. If air bubbles are present at connections, tighten connections. Do not use the Air Compressor unless all connections are air tight, the extra air leaking out will cause the compressor to operate too often, increasing wear on the compressor.

**Note:** As long as the Power Switch is ON, the operation of the Air Compressor is automatic, controlled by an internal pressure switch. The Compressor will turn on automatically when the air pressure drops to 105 PSI, and will turn off automatically when the air pressure reaches 135 PSI.

### Emergency Depressurization

Route the power cord from the compressor 3. to the grounded wall outlet, along a safe path without creating a tripping hazard or exposing the power cord to possible damage.



#### WARNING! TO PREVENT SERIOUS **INJURY AND DEATH FROM EXPLOSION:** Do not adjust the internal

pressure switch. Any change to the automatic pressure levels may cause excess pressure to accumulate, causing a hazardous situation.

- 8. Adjust the Regulator so that the air output is enough to properly power the tool, but the output will not exceed the tool's maximum air pressure at any time. Turn the knob clockwise to increase the pressure and counter-clockwise to decrease pressure. Adjust the pressure gradually, while checking the air output gauge to set the pressure.
- Make sure the air tool's throttle or switch is in the 9 off position. Connect the air tool to the air hose.
- 10. Open the in-line Shutoff Valve.
- 11. Use the air tool as needed.
- 12. After the job is complete, turn the Power Switch OFF.
- 13. Unplug the Air Compressor.
- 14. Close the in-line Shutoff Valve.
- 15. Bleed air from the tool then disconnect the tool.
- 16. Drain Tank according to Draining Moisture from the Tank on page 11.
- 17. Clean, then store the Air Compressor indoors.

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**OPERATION** 

If it is necessary to quickly *depressurize* the Compressor, turn the Power Switch OFF. Then, pull on the ring on the Safety Valve to quickly release stored air pressure.

### Automatic Shut off System

- If the Compressor automatically shuts off 1. before reaching its normal cutoff pressure:
  - a. Shut off all tools.
  - b. Turn Power Switch OFF
  - c. Unplug Compressor and wait until the Compressor cools down (about 10 minutes);
  - d. Plug in Compressor.
  - e. Turn Power Switch ON.

- f. Resume operation.
- 2. Possible causes of repeated automatic shut off of the compressor are:
  - a. Using an extension cord that is too long or narrow;
  - b. An air leak or open hose causing the compressor to cycle too often and build up heat.
  - c. Turning Air Compressor off and on again too guickly.

#### Maintenance and Servicing



Procedures not specifically explained in this manual must be performed only by a qualified technician.

### **AWARNING**

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION: Turn the Power Switch "OFF" and unplug the Compressor from its electrical outlet before performing any inspection, maintenance, or cleaning procedures.

TO PREVENT SERIOUS INJURY FROM COMPRESSOR FAILURE: Do not use damaged equipment. If abnormal noise or vibration occurs, have the problem corrected before further use.

### Cleaning, Maintenance, and Lubrication

- 1. **BEFORE EACH USE**, inspect the general condition of the air compressor. Check for:
  - loose hardware,
  - · misalignment or binding of moving parts,
  - cracked or broken parts,
  - · damaged electrical wiring, and
  - any other condition that may affect its safe operation.

- AFTER USE, wipe external surfaces of 2. the compressor with a clean cloth.
- 3. **AWARNING! TO PREVENT SERIOUS** INJURY: If the supply cord of this compressor is damaged, it must be replaced only by a qualified service technician.

### Maintenance Schedule

Following are general guidelines for maintenance checks of the Air Compressor.

Note: The environment in which the compressor is used, and the frequency of use will affect how often you will need to check the Air Compressor components and perform maintenance procedures.

#### **Daily:**

- a. Check oil level.
- b. Check for oil leaks.
- c. Make sure all nuts and bolts are tight.
- d. Drain moisture from air tank.
- e. Check for abnormal noise or vibration.
- f. Check for air leaks.\*
- g. Wipe off any oil or dirt from the compressor.\*\*

#### Weekly:

- a. Inspect Air Filter.
- b. Inspect Oil Breather.

#### Monthly:

Inspect Safety Valve.

#### Every 6 months or 100 Operation Hours:

Replace Pump oil.\*\*\*

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To check for air leaks, apply soapy water to joints while the Air Compressor is pressurized. Look for air bubbles.

<sup>\*\*</sup> To clean the compressor surface, wipe with a damp cloth, using a mild detergent or mild solvent.

<sup>\*\*\*</sup> Use SAE 30W, non-detergent, Air Compressor Oil only (sold separately).

Check the oil periodically for clarity. Replace oil if it appears milky or if debris is present, or every 6 months, or 100 operation hours, whichever comes first. Replace the oil more frequently if compressor is used in harsh environments such as high heat or high humidity.

#### <u>CAUTION!</u> TO PREVENT INJURY FROM BURNS: Allow Air Compressor to cool before changing the oil.

- 1. Place a container under the Oil Drain Bolt.
- 2. Remove the Oil Breather to allow air flow into the Pump.
- 3. Remove the Oil Drain Bolt, allowing the oil to drain into the container.
- 4. When the oil is completely drained from the Pump, replace the Oil Drain Bolt.
- 5. Fill the Pump with new SAE 30W, non-detergent, Air Compressor Oil to the FULL level on the Oil Sight Glass (5.6 oz.).
- 6. Replace and tighten the Oil Breather.
- 7. Discard the old oil according to local, state and federal regulations.

### Draining Moisture from the Tank

The Moisture Drain is located under the Tank. It must be used daily to release all trapped air and moisture from the Tank. Doing this will eliminate condensation and prevent tank corrosion.

For technical questions, please call 1-888-866-5797.

- 1. Turn the Power Switch off.
- 2. Place a collection pan under the Drain Valve.
- 3. Turn the Drain Valve to open it. Tilt Compressor forward to drain.
- 4. When all the pressure and moisture are released, close the Drain Valve.

### Air Filter Maintenance

- 1. Remove Air Inlet Filter by turning it counterclockwise.
- 2. Remove Cover from Air Inlet Filter.
- 3. Check Filter for accumulated dirt.

- To prevent injury from dust and debris, wear ANSI-approved safety goggles, NIOSH-approved dust mask/respirator, and heavy-duty work gloves. In a well-ventilated area away from bystanders, use pressurized air (no more than 15 PSI) to blow dust out of the filter.
- 5. Replace the clean filter. Replace the Cover, the replace the Air Inlet Filter.

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### Troubleshooting

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Problem	Possible Causes	Likely Solutions
Compressor does	1. Tank(s) already pressurized.	1. No problem. Compressor will start when needed.
not start or restart	2. Power cord not plugged in properly.	2. Check that cord is plugged in securely.
	3. Incorrect power supply.	3. Check that circuit matches compressor requirements.
	4. No power at outlet.	<ol> <li>Reset circuit breaker, or have outlet serviced by a qualified technician.</li> </ol>
	<ol> <li>Building power supply circuit tripped or blown fuse.</li> </ol>	<ol> <li>Reset circuit or replace fuse. Check for low voltage conditions. It may be necessary to disconnect other electrical appliances from the circuit or move the compressor to its own circuit.</li> </ol>
	<ol> <li>Cord wire size is too small or cord is too long to properly power compressor.</li> </ol>	<ol> <li>Use larger diameter or shorter extension cord or eliminate extension cord. See Recommended Wire Gauge for Extension Cords in Safety section.</li> </ol>
	7. Compressor needs service.	7. Have unit inspected by a qualified technician.
Compressor builds	1. Incorrect power supply.	1. Check that circuit matches compressor requirements.
pressure too slowly	2. Crankcase oil overfilled or oil too thick.	2. Drain oil and refill to proper level with recommended oil.
	3. Working environment too cold.	<ol> <li>Move compressor to a warmer location. Check that recommended oil is in crankcase.</li> </ol>
	4. Safety valve leaking.	<ol> <li>Listen for air leaking from valve.</li> <li>If leaking, replace with identical valve with same rating.</li> <li>DO NOT SEAL OR TAMPER WITH SAFETY VALVE.</li> </ol>
	5. Loose fittings.	<ol> <li>Reduce air pressure, then check all fittings with a soap solution for air leaks and tighten as needed. Do not overtighten.</li> </ol>
Compressor not	1. Air filter needs cleaning.	1. Check air filter and clean as needed.
building enough	2. Check Valve needs service.	2. Have technician clean or replace, as needed.
air pressure	3. Compressor not large enough for job.	<ol> <li>Check if accessory CFM is met by Compressor. If Compressor cannot supply enough air flow (CFM), use a larger Compressor.</li> </ol>
	4. Loose fittings.	<ol> <li>Reduce air pressure, then check all fittings with a soap solution for air leaks and tighten as needed. Do not overtighten.</li> </ol>
	5. Hose or hose connections too narrow.	5. Replace with wider hose and/or hose connections.
	6. Crankcase oil too thick.	6. Drain oil and refill to proper level with recommended oil.
	7. High altitude reducing air output.	7. Higher altitudes require compressors with greater output.
Overheating	1. Air filter needs cleaning.	1. Check air filter and clean as needed.
	2. Crankcase oil too thin or incorrect type.	2. Drain oil and refill to proper level with recommended oil.
	3. Crankcase oil level too low.	3. Add oil to proper level, check for leaks.
	4. Unusually dusty environment.	4. Clean filter more often or move unit to cleaner environmer
	5. Extension cord used.	5. Eliminate extension cord.
	6. Unit not on level surface.	6. Reposition unit on a level surface.
Compressor starts and stops excessively	1. Loose fittings.	<ol> <li>Reduce air pressure, then check all fittings with a soap solution for air leaks and tighten as needed. Do not overtighten.</li> </ol>
	<ol> <li>Compressor not large enough for job.</li> </ol>	<ol> <li>Check if accessory CFM is met by Compressor. If Compressor cannot supply enough air flow (CFM), use a larger Compressor.</li> </ol>

Disconnect power supply before service.

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Problem	Possible Causes	Likely Solutions	
Excessive noise	1. Loose fittings.	<ol> <li>Reduce air pressure, then check all fittings with a soap solution for air leaks and tighten as needed. Do not overtighten.</li> </ol>	
	2. Crankcase overfilled with oil or oil is incorrect thickness or type.	2. Drain oil and refill to proper level with recommended oil.	
	3. Crankcase oil level too low.	3. Add oil to proper level, check for leaks.	
	4. Unit not on level surface.	4. Reposition unit on a level surface.	
Moisture in discharge air	Too much moisture in air.	Install inline air filter/dryer, and/or relocate to less humid environment.	
Safety Valve "pops"	Safety valve needs service.	Pull on test ring of safety valve. If it still pops, replace.	
Air leaks from pump or fittings	Loose fittings.	Reduce air pressure, then check all fittings with a soap solution for air leaks and tighten as needed. Do not overtighten.	
Air leaks from tank	Defective or rusted tank.	Have tank replaced by a qualified technician. Drain moisture from tank daily to prevent future corrosion.	
Oil in discharge air or high oil	<ol> <li>Crankcase oil too thin or crankcase overfilled with oil.</li> </ol>	1. Drain oil and refill to proper level with recommended oil.	
consumption	2. Unit not on level surface.	2. Reposition unit on a level surface.	
	3. Crankcase vent clogged.	3. Clean Crankcase vent.	

Follow all safety precautions whenever diagnosing or servicing the compressor. Disconnect power supply before service.

### PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

#### Record Product's Serial Number Here:\_

Note: If product has no serial number, record month and year of purchase instead.

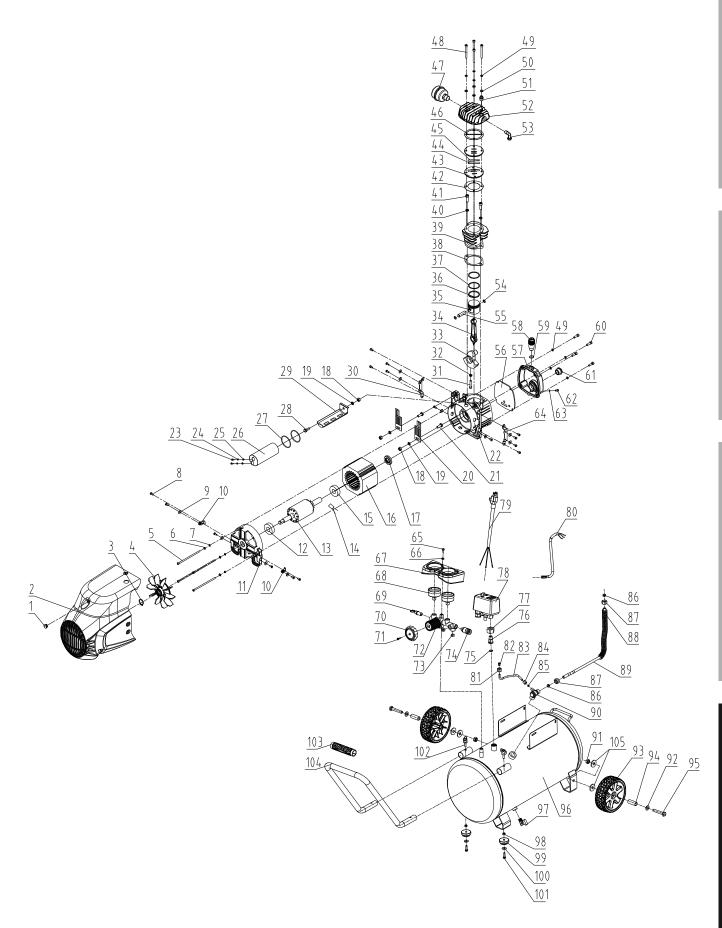
<u>Note:</u> Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts. Specify UPC 193175432872 when ordering parts.

### Parts List and Diagram

### Parts List

4       Fan         5       Bolt M5*117         6       Spring Washer         7       Washer         8       Hex Head Bolt M5*16         9       Washer         10       Connecting Klt         11       Front Cover         12       Bearing         13       Rotor Assembly         14       Automatic Thermal Protector         15       Bearing         16       Stator Assembly         17       Oil Seal         18       Nut	$     \begin{array}{r}       1 \\       1 \\       1 \\       1 \\       4 \\       4 \\       4 \\       4 \\       4 \\       4 \\       16 \\       10 \\       2 \\       1 \\   $
3Circlip4Fan5Bolt M5*1176Spring Washer7Washer8Hex Head Bolt M5*169Washer10Connecting Klt11Front Cover12Bearing13Rotor Assembly14Automatic Thermal Protector15Bearing16Stator Assembly17Oil Seal18Nut	1 1 4 4 4 4 4 4 10 2 1 1 1 1 1 1 1 1
4Fan5Bolt M5*1176Spring Washer7Washer8Hex Head Bolt M5*169Washer10Connecting Klt11Front Cover12Bearing13Rotor Assembly14Automatic Thermal Protector15Bearing16Stator Assembly17Oil Seal18Nut	1 4 4 16 10 2 1 1 1 1 1 1
5Bolt M5*1176Spring Washer7Washer8Hex Head Bolt M5*169Washer10Connecting Klt11Front Cover12Bearing13Rotor Assembly14Automatic Thermal Protector15Bearing16Stator Assembly17Oil Seal18Nut	4 4 16 10 2 1 1 1 1 1 1 1
6Spring Washer7Washer8Hex Head Bolt M5*169Washer10Connecting Klt11Front Cover12Bearing13Rotor Assembly14Automatic Thermal Protector15Bearing16Stator Assembly17Oil Seal18Nut	4 16 10 2 1 1 1 1 1 1 1
7Washer8Hex Head Bolt M5*169Washer10Connecting Klt11Front Cover12Bearing13Rotor Assembly14Automatic Thermal Protector15Bearing16Stator Assembly17Oil Seal18Nut	4 16 2 1 1 1 1 1 1
8Hex Head Bolt M5*1619Washer110Connecting Klt111Front Cover112Bearing113Rotor Assembly114Automatic Thermal Protector1515Bearing116Stator Assembly117Oil Seal118Nut1	16 10 2 1 1 1 1 1 1 1
9Washer110Connecting Klt11Front Cover12Bearing13Rotor Assembly14Automatic Thermal Protector15Bearing16Stator Assembly17Oil Seal18Nut	10 2 1 1 1 1 1 1 1
10Connecting Klt11Front Cover12Bearing13Rotor Assembly14Automatic Thermal Protector15Bearing16Stator Assembly17Oil Seal18Nut	2 1 1 1 1 1 1 1
11Front Cover12Bearing13Rotor Assembly14Automatic Thermal Protector15Bearing16Stator Assembly17Oil Seal18Nut	1 1 1 1 1 1
12Bearing13Rotor Assembly14Automatic Thermal Protector15Bearing16Stator Assembly17Oil Seal18Nut	1 1 1 1 1
13Rotor Assembly14Automatic Thermal Protector15Bearing16Stator Assembly17Oil Seal18Nut	1 1 1 1
14       Automatic Thermal Protector         15       Bearing         16       Stator Assembly         17       Oil Seal         18       Nut	1 1 1
15Bearing16Stator Assembly17Oil Seal18Nut	1 1
16     Stator Assembly       17     Oil Seal       18     Nut	1
17         Oil Seal           18         Nut	
18 Nut	4
	1
10 Spring Weeber	3
19 Spring Washer	3
	2
	2
22 Crankcase	1
	2
24 Washer	2
	2
26 Capacitor 130uf/250vac	1
27 O-Ring Ø50.5*2.5	2
28 Hex Head Bolt M8*16	1
29 Capacitor Bracket	1
30 Connecting Kit	1
31 Bolt M6*25	1
	1
	1
34 Connecting Rod	1
	1
36 Oil Ring	1
	2
	1
	1
	2
	2
	1
	2
	1
	1
	1
	1
	4
	8
	4
	1
	1
53 Elbow	1

Part	Description	Qty
54	Circlip	2
55	Piston Pin	1
56	Sealing Pad	1
57	Crankcase Cover	1
58	Oil Breather	1
59	Ο-Ring Φ16.2*2.5	1
60	Bolt M6*20	4
61	Oil Glass	1
62	Crosshead Bolt M5*10	1
63	О-Ring Ф9.1*2.4	1
64	Connecting Kit	1
65	Crosshead Bolt M5*12	1
66	Washer	1
67	Manifold Cover	1
68	Pressure Gauge	2
69	Safety Valve	1
70	Regulator Knob	1
70	Crosshead Screw	1
72	Regulator	1
73	Choke Plug	2
73	Air Outlet	1
		1
75	O-Ring Φ15.5*11.5*2	
76	Connector	1
77	Nut	1
78	Pressure Valve	1
79	Power Cord	1
80	Electric Wire	1
81	Nut	1
82	Funnel	1
83	Tube	1
84	Nut	1
85	Funnel	1
86	Funnel	2
87	Nut	2
88	Cooling Fin	1
89	Tube	1
90	Check Valve	1
91	Nut M10	2
92	Small Washer	2
93	Tire	2
94	Axle Sleeve	2
95	Hex Head Bolt M10*55	2
96	Tank Assembly	1
97	Drain Valve	2
98	Nut M6	
99	Foot	2 2 2
100	Washer	2
100	Bolt M6*2	2
101	Handle Knob	2
102	Handle Grip	1
	Handle	1
104		4
105	Large Washer	4



#### Limited 90 Day Warranty

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

