

MOTOMASTER

Air Compressor

5-gallon

058-7949-6

Owner's Manual



Parts Missing or Damaged? Questions? Toll-Free Help Line – 1-888-942-MOTO (1-888-942-6686)

IMPORTANT: Ensure that all users have read all safety rules and operating instructions carefully before using this product. Keep this Owner's Manual in a safe place for future reference.



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SPECIFICATIONS

Product number	058-7949-6
Peak horsepower	2
Tank size	2 1/2 gallons (x2)
Air delivery (SCFM) @ 40 PSI	5.1
Air delivery (SCFM) @ 90 PSI	4.1
Cut-in pressure (PSI)	95
Maximum pressure (PSI)	125
Pump design	Cast-Iron cylinder, oil-lubricated, direct drive, single phase
Motor	Induction - 3400 RPM
Power	120 V, 60 Hz, 15 A
Weight	55 lb (25 kg)
Power cord	SJT 14 AWG / 78" (1.98 m)

Safety Guidelines

This manual contains information that relates to **PROTECTING PERSONAL SAFETY** and **PREVENTING EQUIPMENT PROBLEMS**. It is very important to read this manual carefully and understand it thoroughly before using the air compressor. The symbols listed below are used to indicate this information.

 **POTENTIAL HAZARD THAT WILL RESULT IN SERIOUS INJURY OR LOSS OF LIFE**

 **POTENTIAL HAZARD THAT COULD RESULT IN SERIOUS INJURY OR LOSS OF LIFE**

 **POTENTIAL HAZARD THAT MAY RESULT IN MODERATE INJURY OR DAMAGE TO EQUIPMENT**

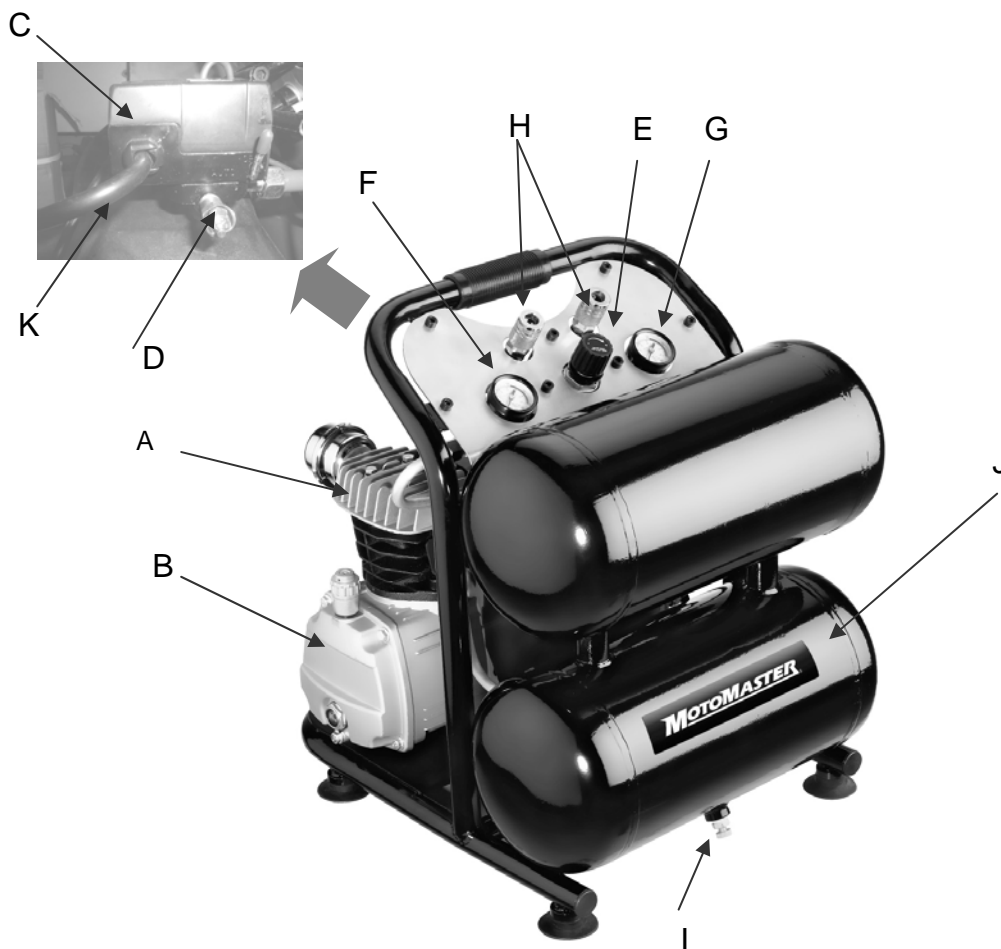
WARNING

- 1) **RISK OF EXPLOSION OR FIRE.** Do not spray flammable liquids in a confined area. It is normal for the motor and pressure switch to produce sparks while operating. If sparks come into contact with vapours from gasoline or other solvents, they may ignite and cause a fire or an explosion. Do not smoke while spraying. Do not spray where sparks or flames are present. Keep the air compressor as far away from the spraying area as possible. Always operate the air compressor in a well-ventilated area.
- 2) **RISK OF ELECTRIC SHOCK.** All wiring must be installed by a licensed electrician, in accordance with all local and national codes. In order to avoid electric shock, do not use an electric air compressor outdoors when it is raining or on a wet surface.
- 3) **RISK OF BURSTING.** Rust can weaken the tank. Drain the condensed water from the tank after each use in order to reduce rusting. Welding or making modifications to the air tank can severely diminish the strength of the tank, and could cause an extremely hazardous condition. Do not weld, drill, or modify the air tank. If a leak is detected in the tank, replace the tank immediately.
- 4) **RISK OF INJURY.** Be sure to shut off the air compressor; unplug it from the outlet. Bleed all pressure from the system before servicing the air compressor or when it is not in use. Do not use the air compressor with the shrouds removed. Contact with moving parts could cause serious injury.
- 5) **RISK OF BURSTING.** Check the maximum pressure rating in the manual or the serial number label. The compressor outlet pressure must be regulated so that it does not exceed the maximum pressure rating. Relieve all pressure in the hose before removing or attaching accessories.
- 6) **RISK OF BURSTING.** Do not adjust the pressure switch or relief valve for any reason. They have been preset at the factory for this air compressor's maximum pressure. Tampering with the pressure switch or the relief valve may cause personal injury or property damage.
- 7) **RISK OF BURNS.** The pump and the manifold generate high temperatures. In order to avoid burns or other injuries, do not touch the pump, the manifold, or the transfer tube while the air compressor is running. Allow the parts to cool down before handling or servicing. Keep children away from the air compressor at all times.
- 8) **RISK TO BREATHING.** Carefully read all labels when you are spraying paints or toxic materials, and follow the safety instructions. Use a respirator mask if there is a chance of inhaling anything that is being sprayed. Do not directly inhale the compressed air produced by an air compressor.
- 9) **RISK OF EYE INJURY.** Wear ANSI Z87.1 approved safety goggles when using an air compressor. Do not point any nozzle or sprayer toward a person or any part of the body. Serious injury may occur if the spray penetrates the skin.

CAUTION

1. Pull the pressure relief valve ring every day in order to ensure that the valve is functioning properly.
2. The air compressor must be located in a well-ventilated area for cooling, and must be a minimum of 12" (31 cm) away from the nearest wall.
3. Protect the air hose and the power cord from damage and puncture. Inspect them for weak or worn spots every week, and replace them if necessary.
4. Always wear hearing protection when using an air compressor. Failure to do so may result in hearing loss.
5. Do not operate the compressor if it is not in a stable position.
6. Do not operate the air compressor on a rooftop or an elevated position that could allow the unit to fall or be tipped over.

KNOW YOUR AIR COMPRESSOR



- A-----ELECTRIC MOTOR (not visible)
- B-----AIR COMPRESSOR PUMP
- C-----PRESSURE SWITCH
- D-----PRESSURE RELIEF VALVE
- E-----AIR PRESSURE REGULATOR
- F-----TANK PRESSURE GAUGE
- G-----REGULATED PRESSURE GAUGE
- H-----AIR LINE OUTLET
- I-----AIR TANK DRAIN VALVE
- J-----AIR TANK
- K-----POWER CORD

Standard Equipment

25' recoil hose with 1/4" NPT connector and quick connector

KNOW YOUR AIR COMPRESSOR

- A. **ELECTRIC MOTOR:** The motor is used to power the pump. It has a thermal overload protector and an automatic reset. If the motor overheats for any reason, the thermal overload protector will shut it down to prevent the motor from being damaged. The motor will automatically restart when it completely cools.
- B. **AIR COMPRESSOR PUMP:** The pump is used to compress the air and discharge it into the tank via the piston moving up and down in the cylinder.
- C. **PRESSURE SWITCH:** The switch is used to start or stop the air compressor. It is operated manually. When in ON position, it allows the motor to start when the air tank pressure is below the factory set cut-in pressure and allows the motor to stop when the air tank pressure reaches the factory set cut-out pressure. ALWAYS set this switch to OFF when the unit is not being used, and before unplugging the unit.
- D. **PRESSURE RELIEF VALVE:** The valve is used to prevent system failures by relieving pressure from the system when the pressure reaches the preset level while the pressure switch does not shut down the motor. It will pop open automatically or you can pull the ring on the valve to make it.
- E. **AIR PRESSURE REGULATOR:** The regulator is used to adjust line pressure to the tool you are using. Turn the knob clockwise to increase pressure and counter-clockwise to decrease pressure.



Never exceed the maximum working pressure of the tool.

- F. **TANK PRESSURE GAUGE:** The gauge is used to measure the pressure level of the air stored in the tank. It is not adjustable by the operator, and does not indicate line pressure.
- G. **REGULATED PRESSURE GAUGE:** The gauge is used to measure the regulated outlet pressure.
- H. **AIR LINE OUTLET:** The outlet is used to connect 1/4" NPT air hose.
- I. **AIR TANK DRAIN VALVE:** The drain valve is used to remove moisture from the air tank after the unit is shut off.



Never attempt to open the drain valve when over 10 PSI of air pressure is in the tank.

- J. **AIR TANK:** The tank is used to store the compressed air.
- K. **POWER CORD:** This product is for use on a nominal 115-volt circuit and should be grounded. A cord with a grounding plug, as K showed, should be used. Make sure that the product is connected to an outlet having the same configuration as the plug (see Figure 1). No adapter should be used with this product.

BEFORE YOU START

General Performance & Usage

This **Motomaster®** Air Compressor is ideal for a wide-range of automotive applications from fastening to greasing and engine cleaning. The 5-gallon twin tank design provides optimum pressure. It features a **2 HP** (peak) induction motor for quiet operation and a cast-iron, oil-lubricated pump for long-lasting, reliable performance. It comes standard with a 25' coil hose and attachment fittings.

Compatible Compressor & Air Tool - Guidelines for Proper Usage & Operation

Always ensure the use of appropriately matched air tools with your Motomaster® Air Compressor. Be sure that the air compressor being used can supply the appropriate volume, pressure and delivery rate of air to the tool(s) without running continuously. Using tools or combinations of tools that together or separately require more than the air compressor can deliver will void the air compressor guarantee/warranty.

EXTENSION CORDS:

Avoid the use of extension cords whenever possible. If an extension cord must be used, it must have a minimum wire size of 12 AWG, and must be no longer than 50' (15 m). Use only a 3-wire extension cord that has a 3-pronged grounding plug, and plug it into a 3-holed outlet that is suitable for the compressor's plug.

Whenever possible, utilize a longer air hose instead of an extension cord.

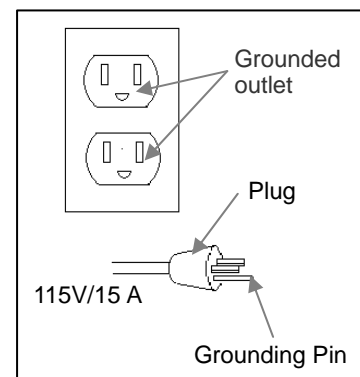
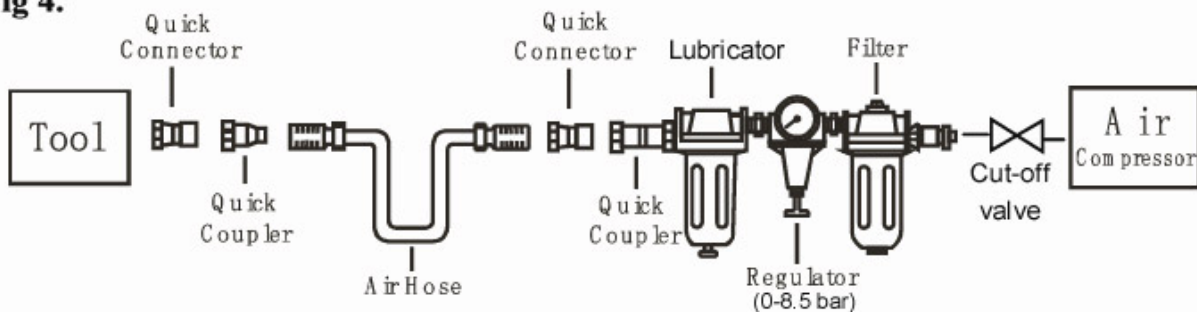


Figure 1

Before You Start – Air System:

1. A filter-regulator-lubricator is recommended and should be located as close to the air-powered tool as possible. (see Fig.4)
2. If a filter-regulator-lubricator is not installed, place 2-6 drops of compressor oil into the NPT inlet plug of your air-powered tools before each use.
3. If installed, keep air filter clean. A dirty filter will reduce the air pressure to the tool causing a reduction in power, efficiency and performance in general.
4. For better performance, install a quick connector in your tool and quick coupler on the hose.
5. Be sure all connections in air supply system are sealed to prevent air loss.

Fig 4.



BEFORE YOU START - ASSEMBLY INSTRUCTIONS

1. Unpack the air compressor. Inspect the unit for damage .If the unit has been damaged in transit, contact the carrier and complete a damage claim, Do this immediately because there is time limitation to damage claims.

The carton should contain:

- Air compressor,
- Accessories,
- Owner's manual.

2. Check the air compressor's identification label to ensure that you have received the model ordered, and that it has the required pressure rating for its intended use.
3. Position the air compressor according to following guidelines:
 - a. Position the air compressor near a grounded electrical outlet.
 - b. The compressor must be at least 12" inches (31 cm) from any wall or obstruction, in a clean, well-ventilated area, to ensure sufficient air flow and cooling.
 - c. In cold climates, store portable air compressors in a heated building when not in use. This will reduce problems with motor starting and freezing of water condensation.
 - d. Place air compressor on the floor or a hard, level surface. The air compressor must be level to ensure proper drainage of the moisture in the tank.
4. Connect an air hose to the compressor hose outlet (see Figure 2).



Figure 2

5. Refer to the air compressor's identification label for the unit's voltage and amperage requirements.

USE A DEDICATED CIRCUIT

For best performance and reliable starting, the air compressor should be plugged into a dedicated circuit, as close as possible to the fuse box or circuit breaker.

The compressor will use the full capacity of a typical 15 amp household circuit. If any other electrical devices are drawing from the compressor's circuit, the air compressor may fail to start. Low voltage or an overloaded circuit can result in sluggish starting that causes the motor overload protection system or circuit breaker to trip, especially in cold conditions.

NOTE: A circuit breaker is recommended. If the air compressor is connected to a circuit protected by a fuse, use dual element time delay fuses (Buss Fusetron type "T" only).

BEFORE YOU START

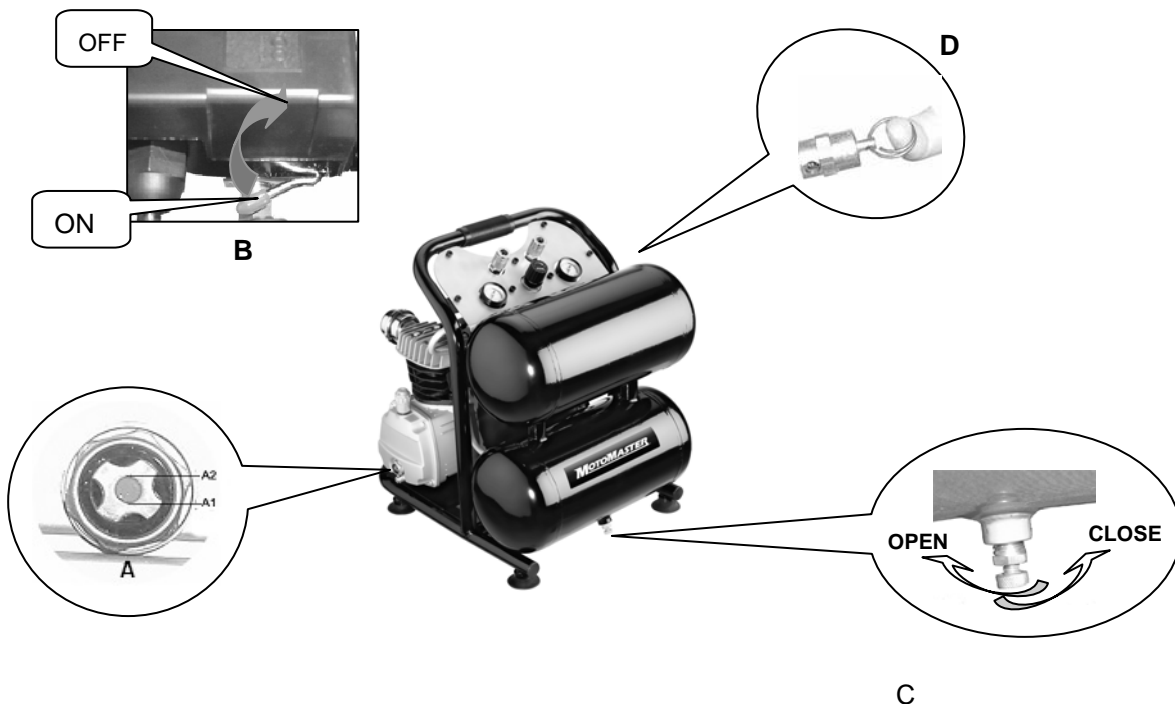
BREAK-IN PERIOD OF THE PUMP

NOTE: The pump is shipped WITHOUT oil. Before starting, the break-in oil provided in an oil bottle should be poured in the pump through the oil nozzle. The break-in oil should be changed after 8 hours of operation. To reduce maintenance and repair problems, use only premium compressor oil. **SAE 10W-30** all weather air compressor oil is recommended for general use.

NOTE: Always dispose of used oil in an environmentally-friendly manner.

1. Check the oil level in the pump through the oil sight glass. The pump oil level must be between A1 and A2. Do not overfill or underfill (see A).
2. Turn the pressure switch to the OFF position (see B).
3. Open the tank drain valve (see C). Turn in the counter-clockwise direction.
4. Plug in the power cord
5. Turn the pressure switch to the ON position (see B). The unit will start. Allow the unit to run for **30 minutes** to break in the internal parts. After **30 minutes**, if the unit does not operate properly, shut down immediately and contact Product Service.
6. After **30 minutes**, turn the pressure switch to the OFF position.
7. Close the tank drain valve. Turn in the clockwise direction.
8. Turn the pressure switch to the ON position. The unit will start and fill the tank to the cut-out pressure and stop.

NOTE: The pressure switch will restart the motor automatically as compressed air is used.



Operating Instructions

Daily Start-Up



If the pump has been transported or turned upside down (even partially), allow the pump to sit in a normal, upright position for approximately 10 minutes before starting.

1. Before starting, check the oil sight glass to ensure that oil level in the pump is at the required level.
2. Turn the pressure switch to the OFF position.
3. Close the tank drain valve.
4. Plug in the power cord.



High temperatures are generated by the electric motor and the pump. To prevent burns or other injuries, DO NOT touch the air compressor while it is running. Allow it to cool before handling or servicing. Keep children away from the air compressor at all times.

5. Turn the pressure switch to the ON position.
6. Adjust the pressure regulator to the working pressure of the tool.
When adjusting from a higher to a lower pressure, turn the knob counter-clockwise past the desired setting, and then turn clockwise to reach the desired pressure. DO NOT exceed operating pressure of the tool or accessory being used.

Shut-Down Procedure

1. Switch the pressure switch to the OFF position.
2. Unplug the power cord.
3. Reduce pressure in the tank through the outlet hose. You can also pull the relief valve ring and keep it open to relieve pressure in the tank (see D).



Escaping air and moisture can propel debris that may cause eye injury. Wear safety goggles when opening drain valve.

4. Open the drain valve (see C) to allow moisture to drain from the tank.

MAINTENANCE



WARNING

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

Regular maintenance will ensure trouble-free operation. The items listed in the chart should be inspected on a regular basis.

ITEM	DESCRIPTION/REASON	SERVICE INTERVAL
Drain the tank.	Through normal operation of your air compressor, condensation water will accumulate in the tank. To prevent corrosion of the tank from the inside, condensation must be drained at the end of every workday. Be sure to wear protective goggles. Relieve the air pressure in the system and open the drain valve on the bottom of the tank to drain. In cold conditions, it is especially important to drain the tank after each use to reduce the chance of problems resulting from the freezing of condensation water.	Daily
Check the oil.	Check the oil level in the pump through the oil sight glass. The pump oil level must be within the red circle. Do not overfill or underfill.	Daily
Check the relief valve.	Pull/activate the relief valve daily to ensure that it is operating properly and to clear the valve of any possible obstructions.	Daily
Clean the air filter.	A dirty air filter will reduce air compressor performance and life. To avoid any contamination of the inside pump, the filter should be cleaned frequently and replaced on a regular basis. Foam filters should be cleaned in warm and soapy water.	Weekly
Test for leakages.	Check that all connections are tight. Small leaks in any of the tank, hoses, connections or transfer tubes will substantially reduce the air compressor and tool performance. Spray a small amount of soapy water around the area of suspected leaks with a spray bottle. If bubbles appear, repair, replace or re-seal the faulty component. Do not over tighten any connections.	Monthly
Storage.	Before storing the unit for a long period, use an air blow gun to clean all dust and debris from the air compressor. Disconnect and coil the power cord up. Clean the filter element and filter housing. Drain all moisture from the tank. Pull the pressure relief valve to release all pressure from the tank. Cover the entire unit to protect it from moisture and dust.	N/A

Troubleshooting



WARNING If any of the following symptoms appears while operating the tool, stop using the tool immediately, or serious personal injury could result. Only authorized service centre should perform repairs on this tool.

Disconnect the electrical plug and disconnect any tools from air supply before attempting any adjustment.

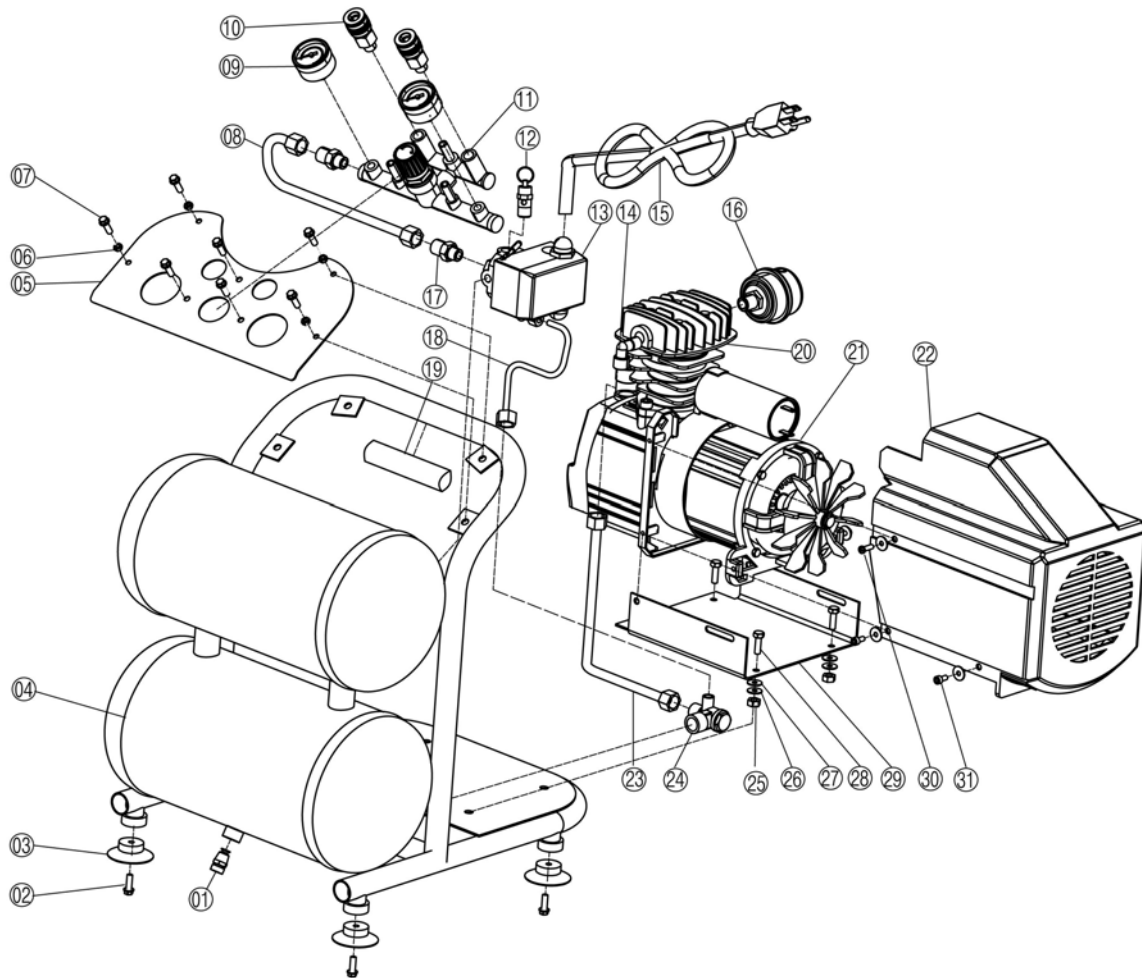
NOTE: Troubleshooting problems may have similar causes and solutions.

PROBLEM	POSSIBLE CAUSE	SOLUTION
Compressor motor will not run or start.	Power cord not plugged in.	Plug cord into grounded outlet.
	Pressure Switch in "OFF" position.	Turn switch to "ON" or "AUTO" position.
	Wrong gauge wire or length of extension cord.	Check specifications for proper gauge wire and cord length
	Motor thermal overload switch is tripped.	Turn air compressor off, wait until motor is cool, then check motor circuit breaker.
	Fuse is blown or circuit breaker is tripped.	-Replace fuse or reset circuit breaker. -Check for proper fuse amperage. -Check for low voltage conditions. -Disconnect any other electrical appliances from circuit or operate compressor on its own designated circuit.
	Air tank pressure exceeds preset pressure switch limit.	Motor will start automatically when tank pressure drops below cut-in pressure of pressure tank.
	Check valve is stuck open.	Remove and clean or replace.
	Electrical connections are loose.	Contact authorized service centre or store.
	Possible defective motor, capacitor or check valve.	Contact authorized service centre or store.
Motor hums but cannot run, or runs slowly.	Low Voltage.	Check power source (outlet or generator) with volt-meter.
	Unit is plugged into an extension cord.	Remove extension cord. Tip: It is better to use a longer hose instead of an extension cord.
	Shorted, or open motor winding.	Contact authorized service centre or store. Motor replacement may be required.
	Check valve is defective.	Contact authorized service centre or store. Parts may require replacement.
Fuses blow/circuit breaker trips repeatedly.	Incorrectly sized fuse or circuit – circuit is overloaded.	Check for proper fuse or breaker, use time-delay fuse of the proper size. Disconnect other electrical appliances from circuit or operate air compressor on its own branch circuit
	Circuit is overloaded.	Disconnect any other electrical appliances from circuit or operate air compressor on a dedicated circuit
	Unit is plugged into an extension cord.	Remove extension cord. Tip: It is better to use a longer hose instead of an extension cord.
	Check valve is defective.	Contact authorized service centre or store. Parts may require replacement.

Troubleshooting

PROBLEM	POSSIBLE CAUSE	SOLUTION
Motor runs continuously when in the Auto mode.	Pressure switch does not shut off motor when air compressor reaches cut-out pressure and safety relief valve activates.	Move the pressure switch to the OFF position. If the motor does not shut off, unplug the air compressor. Contact authorized service centre or store.
	Air compressor is not large enough.	Check air requirement of accessory used. If it is higher than CFM and pressure supplied by compressor, a larger compressor is needed. Most accessories are rated at 25% of actual CFM while running continuously.
Thermal overload protector cuts out repeatedly.	Low voltage.	Check power source (outlet or generator) with volt-meter.
	Clogged Air Filter.	Clean or replace air filter.
	Lack of proper ventilation/room temperature too high.	Relocate compressor to an area with cool, dry and well-circulated air.
	Unit is plugged into an extension cord.	Remove extension cord. Tip: It is better to use a longer hose instead of an extension cord.
	Dirt-covered cooling surfaces.	Allow compressor to cool down. Clean all cooling surfaces of pump and motor thoroughly.
Regulator does not regulate pressure.	Dirty or damaged regulator internal parts.	Replace regulator. Contact authorized service centre or store.
Low pressure or not enough air.	Fittings leak.	Check fittings with soapy water. Tighten or reseal leaking fittings. But do not over tighten.
	Tank drain valve is open.	Close drain valve.
	Restricted air intake.	Clean or replace air filter element.
	Prolonged excessive use of air.	Decrease amount of air used.
	Hole in air hose.	Check and replace if necessary.
	Tank leaks.	Replace unit immediately. DO NOT attempt to repair.
	Valve leaks.	Check and replace worn parts.
Excessive moisture in discharge air.	Excessive water in air tank.	Drain Tank.
	High humidity.	Move air compressor an area of lower humidity or install an in-line air filter.

PARTS SCHEMATIC & PARTS LIST



Key#	Description	Qty
1	Drain valve	1
2	Bolt	4
3	Rubber foot	4
4	Tank	1
5	Panel	1
6	Nut	4
7	Bolt	7
8	Tube	1
9	Pressure gauge	2
10	Quick connector	2
11	Regulator	1
12	Safety valve	1
13	Pressure switch	1
14	Elbow	1
15	Power cord	1
16	Air filter	1

Key#	Description	Qty
17	Brass Nipple	1
18	Copper Tube	1
19	Handle sleeve	1
20	Pump assembly	1
21	Motor assembly	1
22	Shroud	1
23	Transfer tube	1
24	Check valve	1
25	Nut	4
26	Spring Washer	4
27	Flat Washer	4
28	Bolt	2
29	Motor mount	1
30	Cross-head screw	2
31	Hex Head Screw	1

MOTOMASTER® LIMITED WARRANTY

This Motomaster® product is guaranteed **for a period of three (3) years from the date of original retail purchase** against defects in materials and workmanship

Subject to the conditions and limitations described below, this product, if returned to us with proof of purchase within the stated warranty period and if covered under this warranty, will be repaired or replaced (with the same model, or one of equal value or specification), at our option. We will bear the cost of any repair or replacement and any costs of labour relating thereto.

This warranty is subject to the following conditions and limitations:

- a) a bill of sale verifying the purchase and purchase date must be provided;
- b) this warranty will not apply to any product or part thereof which is worn or broken or which has become inoperative due to abuse, misuse, accidental damage, neglect or lack of proper installation, operation or maintenance (as outlined in the applicable owner's manual or operating instructions) or which is being used for industrial, professional, commercial or rental purposes;
- c) this warranty will not apply to normal wear and tear or to expendable parts or accessories that may be supplied with the product which are expected to become inoperative or unusable after a reasonable period of use;
- d) this warranty will not apply to routine maintenance and consumable items such as, but not limited to, fuel, lubricants, vacuum bags, blades, belts, sandpaper, bits, fluids, tune-ups or adjustments;
- e) this warranty will not apply where damage is caused by repairs made or attempted by others (i.e. persons not authorized by the manufacturer);
- f) this warranty will not apply to any product that was sold to the original purchaser as a reconditioned or refurbished product (unless otherwise specified in writing);
- g) this warranty will not apply to any product or part thereof if any part from another manufacturer is installed therein or any repairs or alterations have been made or attempted by unauthorized persons;
- h) this warranty will not apply to normal deterioration of the exterior finish, such as, but not limited to, scratches, dents, paint chips, or to any corrosion or discolouring by heat, abrasive and chemical cleaners; and
- i) this warranty will not apply to component parts sold by and identified as the product of another company, which shall be covered under the product manufacturer's warranty, if any.

Additional Limitations

This warranty applies only to the original purchaser and may not be transferred. Neither the retailer nor the manufacturer shall be liable for any other expense, loss or damage, including, without limitation, any indirect, incidental, consequential or exemplary damages arising in connection with the sale, use or inability to use this product.

Notice to Consumer

This warranty gives you specific legal rights, and you may have other rights, which may vary from province to province. The provisions contained in this warranty are not intended to limit, modify, take away from, disclaim or exclude any statutory warranties set forth in any applicable provincial or federal legislation.

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