SAFETY INFORMATION

WARNING!!!

You are completely responsible for your own safety and the safety of those with you. Oasis Mfg. will not be responsible and will not assume any liability for indirect, incidental, or consequential loss, damage, injury, expense or inconvenience to property or persons as a result of use or misuse of this product.

Compressor and motor surfaces become extremely hot during use! To avoid serious burns, do not touch any part of this equipment, except for the on/off switch, with bare hands during or for up to 30 minutes immediately following operation

1. Only persons who have read and understand these instructions should be allowed to use this compressor.
2. The air produced by this compressor is not fit for human or animal consumption and it must not be used to provide a breathing air supply.
3. Do not operate compressor with any damaged hose(s) or after the compressor or attachments have been dropped or damaged.
4. Never use while sleepy or drowsy.
5. Do not use near flames.
6. Do not pump anything but air.
7. Never point any air nozzle at any person or animal. Serious injury may result.
8. Do not leave unattended during use.
9. Do not attempt to reach for this equipment if it has fallen into water or any other liquid.
10. Under no circumstances ever rely on a safety valve to protect this compressor in place of a pressure switch.
11. Always use open fittings (male plugs) to terminate air lines coming from compressor and an open tire chuck to terminate the air hose unless a pressure switch is installed. An open tire chuck allows air to flow at all times, even when it is not connected to a tire. If air lines are not free to flow and a pressure switch is not used, excess pressure will build rapidly and either stall the compressor motor, which creates a fire hazard, or a line or hose will burst, which may cause serious bodily injury.
12. Overheating, short circuiting and fire damage will result from inadequate wiring.
13. If the equipment starts to vibrate abnormally, slow down or stall, STOP the motor immediately.
14. Never operate near a flammable gas or liquid. Never store flammable liquids or gasses in the vicinity of the compressor.
15. Keep this equipment's exterior clean and free of oil, solvent and grease to reduce fire hazard.
16. Disconnect power and release all pressure from the system before attempting to install or perform maintenance to the system (tank, air lines, etc.).
17. Be sure any tools or attachments are compatible with the pressure and flow rate of this equipment.
18. Check all fasteners and electrical connections at frequent intervals for proper tightness and cleanliness.
19. Do not attempt to disassemble, modify or repair this equipment.

INSTALLATION

Mounting location should be:

Vertical – The intake and output fittings must be located on top of the compressor for proper lubrication.

Dry – Avoid mounting in a location that may become submerged if possible. For installations subject to submersion under water, relocate the air intake filter to a dry location via a hose barb and 5/8" heater hose. After submersion, allow motor to drain thoroughly before use!

Cool and well ventilated – This will allow the compressor to run for longer periods before motor becomes hot and shuts off automatically.

Away from combustible/meltable materials – Compressor gets extremely hot during operation.

Level – Compressor must be as level as possible during operation for proper lubrication.

Close to battery – The shorter the power cables are, the better your performance will be. New ring terminals and heat shrink are available from the manufacturer if you wish to shorten the power cables. Mounting an isolated auxiliary battery next to the compressor and cutting the cables down to minimum length will provide maximum performance. **Use a deep cycle battery.** If you must mount the compressor farther away than the 10' power cables will allow, use #0AWG wire for runs up to 20' instead of #4AWG cable provided.

Be sure charging system is in top condition, and optimized to deliver maximum charge current to battery. Some applications may require an upgrade to the charging system and/or multiple batteries.

Caution: Do not change power cables to a smaller wire size. Extreme fire danger will result!

Parts list

This package should contain one each of the following:

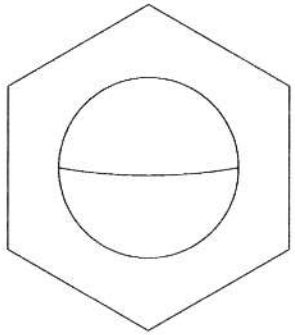
Compressor, air filter,

and four each of the following:

3/8" cap screws, flat washers and lock washers.

1. Temporarily position the compressor in the mounting location to ensure fit and adequate clearance. Be sure location is sturdy enough to support compressor properly.
2. Using the template, drill four 7/16" diameter holes.
3. Mount compressor using the four 3/8" bolts on the bottom of the compressor. Tighten to 25 ft/lbs. Thread locking compound is recommended.
4. Be sure compressor on/off switch is "**off**". Attach black wire to negative terminal of battery and then the red wire to positive terminal of battery. Control wire must eventually go to ground (see wiring diagram).
5. Be sure all electrical connections are clean and secure. Loose or dirty connections will result in poor performance.
6. Install air filter or fitting for a filtered intake line into the suction port.

7 Compressor is shipped with oil. Check oil sight glass after compressor has been sitting level for at least one hour. Hold a carpenter's level next to the unit if necessary to ensure it is level. If no oil is visible in window, remove the oil plug from either side of compressor. This will relieve the crankcase and allow oil in the overflow reservoir to drain back into the crankcase. If oil level is not visible within a few minutes, add oil until it is visible in window. Use a full synthetic, 30 weight air compressor oil.



Oil Sight Glass

8 Install air hose, quick disconnect plug, or air line fitting to a tank into discharge port. Read items #10 & 11 under SAFETY INFORMATION!

9 If you use a closed tire chuck, air tools or a tank, you must install a pressure switch that will shut the compressor off at 200psi or less. A pressure switch automatically turns the motor off when the tank or line pressure reaches a preset high level, and back on again when pressure drops to a preset low level. To wire a pressure switch to the compressor, disconnect the .250" electrical quick connector located under the power cables on top of the motor and connect the leads from the pressure switch to this point.

We recommend the use of an unloader valve if the compressor will be operated at pressures of 150 psi or greater. Unloader valves are available from the manufacturer.

For installations involving tanks, some applications may require the use of a one way check valve at the output of the compressor to prevent air flow back into the compressor, and an air line filter at the output of the tank to separate oil mist and moisture out of the air line. The filter must be rated at least 175 deg. and be located at least 3' away from the compressor due to the high temperatures at the compressor. Both items are available from the manufacturer.

If you are unsure about any part of installation or operation, contact the manufacturer for clarification.

OPERATING INSTRUCTIONS

Turning the on/off switch to the "on" position will start the compressor. It may now be used to inflate tires, operate air tools, etc. **On the HP3000 model only**, when the motor reaches its maximum operating temperature, it will shut off automatically until it cools off to a safe level and will then turn back on again, unless the switch is turned "off". Occasionally small amounts of smoke can be seen coming from the unit as it warms up. This is normal.

Since this is an oil bath type compressor, some oil discharge is normal. If an application requires oil free air delivery, a coalescing air line filter may be required. Filters are available from the manufacturer.

This equipment draws large amounts of current during operation. We recommend your vehicle engine be left running to prevent excessive discharge of your battery, and to maximize compressor performance. Some applications may require the use of a throttle positioning device to maintain engine RPM at a point where the alternator delivers maximum output.

This unit is equipped with a low voltage cut off circuit. If the power supply voltage drops to dangerously low, this circuit will stop the motor, and the LED next to the manual on-off switch will light indicating a low power condition. The circuit will latch in this mode until it is manually reset. To reset the circuit, turn the manual on-off switch to the off position, then back to the on position. This circuit is designed to protect the compressor motor from damage due to stalling. **It is not designed to protect a battery!**

Use heat resistant hose if connected directly to compressor. Attach a quick disconnect male plug to compressor, female quick disconnect coupler to hose and use an open tire chuck to prevent damage from excessive pressure if no pressure switch is used. Use gloves to disconnect hose after use.

Factors that affect tire inflation times: Battery and connection condition, tire size, valve stem flow rate, temperature and altitude.

MAINTENANCE

Check oil level after every 50 hours of operation at 12 Vdc, or every 10 hours of operation at 24 Vdc. If no oil is visible in window, remove the oil plug from either side of compressor and add oil until visible in window. Use a full synthetic, 30 weight air compressor oil.

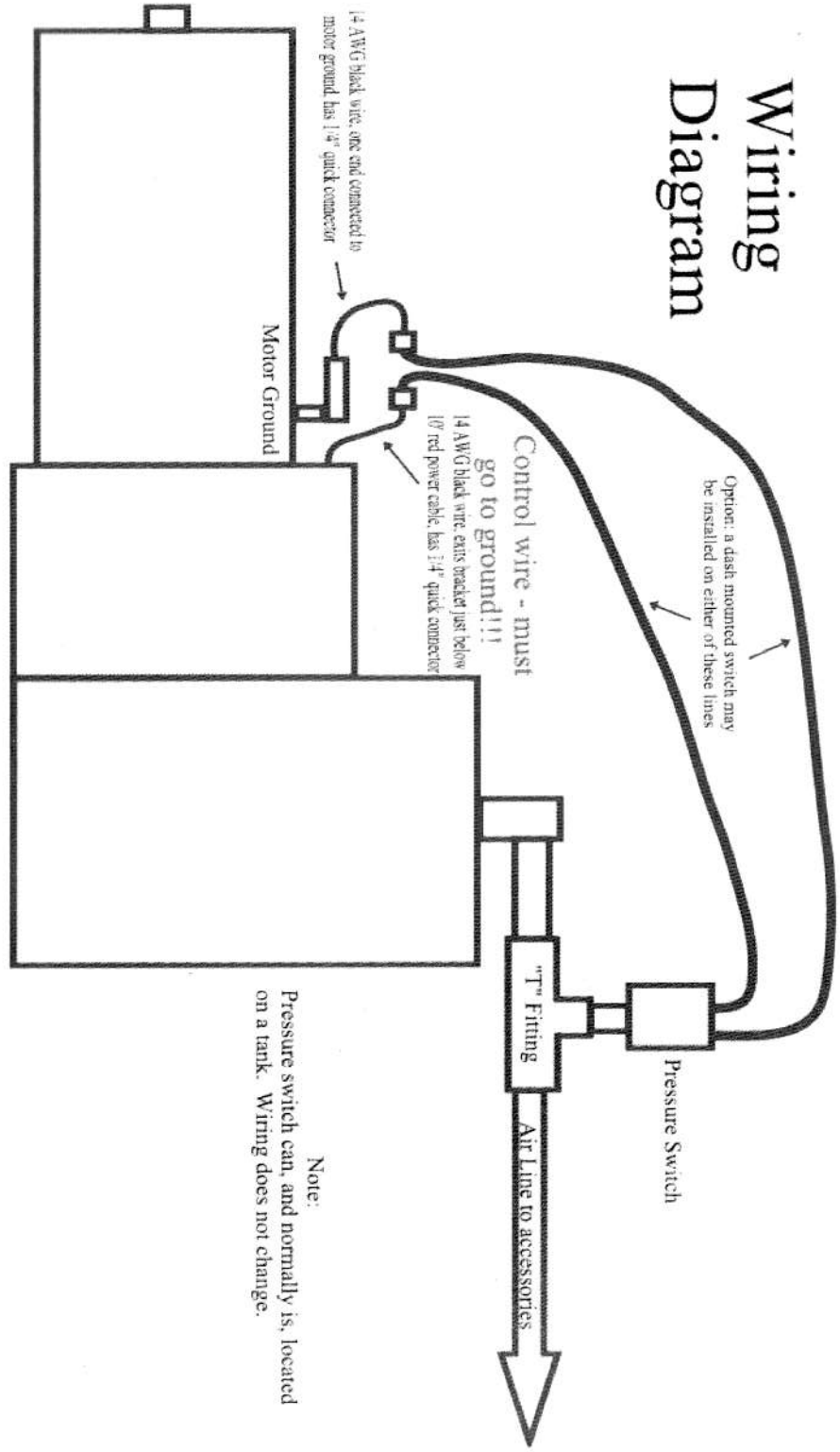
Change air filter element annually. Elements are available from the manufacturer.

All repairs should be performed by the manufacturer. Any attempt to disassemble or repair the unit may void warranty.

TROUBLESHOOTING CHART

Symptom	Possible Cause	Corrective Action
Low discharge pressure	Air leaks	Tighten or replace any leaking fittings or connections.
	Restricted air intake	Replace air filter element
	Compressor defective or worn.	Contact manufacturer
Unit runs slowly and/or low power indicator lights Note: Units fitted with a pressure switch will shut off automatically when pressure builds and restart automatically as pressure drops	Battery voltage low	Check battery, alternator and regulator condition, repair if necessary.
	Dirty or loose connection	Check all electrical connections, clean and tighten if necessary.
	Low oil level	Check oil level. Fill if necessary.
	Compressor damaged or worn	Contact manufacturer.
	Defective check valve	Replace
	Defective pressure switch	Replace
	Misadjusted pressure switch	Readjust
Excessive noise	Loose hardware	Tighten hardware
	Low oil level	Check oil level. Fill if necessary.
	Compressor damaged or worn	Contact manufacturer
Oil in the discharge air	A small amount is normal, especially at initial start up.	Install an air line filter/separator.
	Restricted air intake	Replace air filter element.
	Excessive oil level	Drain oil to proper level.
	Wrong type of oil	Use Oasis Compressor Oil
	Compressor damaged or worn	Contact manufacturer

Wiring Diagram



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