

IRON HORSE


Portable Oil Free Compressor Operating Instructions

NOTICE

Carefully read this instruction manual before
attempting to operate this compressor.

MODEL # _____ SERIAL # _____

IRON HORSE

A stylized, colorful illustration of a horse's head, facing right, integrated into the letter 'O' of the word 'IRON'.

1-800-551-2406

www.eaglecompressor.com

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Carefully read this instruction manual before attempting to operate this compressor.

SAFETY PRECAUTIONS

Please familiarize yourself with the following information to prevent damage to your compressor unit and injury to the operator.

CAUTION

The air compressor motor and/or engine will get hot while in operation. Never touch the discharge tubing, motor, or compressor pump while in operation. The compressor operates automatically while the power is connected and turned on, or the motor is running.

WARNING

Compressed air from the unit may contain hazardous fumes. Air produced by this compressor is not suitable for breathing purposes. Always use a respirator when spraying paint or chemicals, or when sandblasting. Always wear safety glasses or goggles when using compressed air.

It is not practical or possible to warn you about all of the hazards associated with operating or maintaining this equipment. You must use your own good judgement.

EXTENSION CORDS

The use of extension cords is not recommended. Plug directly into a dedicated circuit. If the use of an extension cord is unavoidable then 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 overheating. Table 1 shows the correct size to use depending on cord length and nameplate amperage rating. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.

Table 1 — Minimum Gauge for Cord						
Ampere Rating		Volts	Total length of cord in feet			
		120 V	25 ft.	50 ft.	100 ft.	150 ft.
More Than	Not More Than	AWG				
0	6		18	16	16	14
6	10		18	16	14	12
10	12		16	16	14	12
12	16		14	14	Not Recommended	

AIR RECEIVER

Over pressurizing the air receiver could cause personal injury or material damage. To protect from over pressurizing, a factory pre-set safety valve is installed.

**⚠ WARNING NEVER WELD, DRILL, OR CHANGE
THE AIR RECEIVER IN ANY WAY.**

Any replacement parts should be purchased with the same specifications as the original equipment. Please contact the authorized dealer for replacement parts or specifications.

SAFETY VALVE

This valve is factory installed to prevent over pressurizing of the air receiver. It is factory set at a specific limit for your particular model, and should never be tampered with.

Adjustment by user will automatically void the warranty.

**⚠ WARNING DO NOT REMOVER, MAKE
ADJUSTMENTS TO OR
SUBSTITUTE THIS VALVE!**

INSTALLATION

1. INSTALLATION

Proper care and maintenance ensure longevity. Do not over tighten foot bolts as excessive vibration may occur. Use only in a clean, dry, and well-ventilated area. The compressor has heat dissipation fins for proper cooling. Keep the fins and other parts that collect dust clean. Do not place rags or other materials on top of the compressor, as this obstructs cooling and can be a fire hazard.

2. BREAK-IN PROCEDURE

Before anything is hooked up, run the compressor 15 minutes with the drain valve open. After the compressor has run for 15 minutes continuously, the unit is ready to use.

**3. BEFORE OPERATING THE AIR COMPRESSOR, PLEASE
CHECK THE FOLLOWING CAREFULLY:**

1. Check to see that nuts and bolts are all snug.
2. If the intake filters are dirty, they should be replaced or cleaned.

4. COMPRESSOR LUBRICATION

These units are oil free. Lubrication is not required.

INSTALLATION (cont..)

5. MAINTENANCE

Before doing any maintenance or adjustments to your air compressor, the following safety precautions should be taken:

- * TURN OFF AND UNPLUG POWER CORD
- * DRAIN AIR RECEIVER AND AIR LINES OF AIR PRESSURE

OPERATING YOUR AIR COMPRESSOR

A) ELECTRIC DRIVE

- 1) Check unit for any damage.
- 2) Pressure switch "Off/Auto" switch should be in "Off" position.
- 3) Plug in power cord to proper electrical outlet.
- 4) Stop/Start (pressure switch) control
Turn pressure switch "Off/Auto" switch to "Auto". Electric motor should now start and fill air receiver(s) with compressed air until cut-out pressure is reached. Compressor should stop and remain stopped until air receiver pressure reaches the cut-in pressure. The unit will continue to cycle in this automatic operation until the pressure switch is turned to the "Off" position.



**EXTRA CARE SHOULD BE TAKEN TO AVOID
PERSONAL INJURIES WITH AUTOMATICALLY
CONTROLLED COMPRESSORS**

COMPRESSOR MAINTENANCE SCHEDULE

DAILY OR BEFORE EACH USE

- Drain condensation from air receiver
- Check for any unusual noise or vibration
- Be sure all nuts and bolts are tight

WEEKLY

- Turn off power. Clean dust and foreign matter from cylinder head, motor, fan blades, intercooler and air receiver.
- Clean air filter by opening air filter, removing filter element and cleaning it thoroughly.
- Worn or dirty filters should be replaced.

MONTHLY

- Inspect unit for leaks.
- Tighten joints if leaks are observed.

QUARTERLY OR 300 HOURS (Whichever comes first)

- Inspect the air receiver for corrosion or other damage
- Replace air filter (more often if compressor is used near paint spraying operations or in dusty environments).

TROUBLE SHOOTING

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
Will not start	Check power supply	Make sure power is turned on
Low pressure	Safety valve leaks	Replace safety valve
	Drain cock open	Close drain cock
	Loose tubes or fittings	Tighten fittings
	Dirty or plugged air filter	Clean or replace as necessary
Compressor Overheats	Clogged inlet filter	Clean or replace as necessary
	Dirty compressor, head, cylinder, intercooler	Clean with compressed air
	Operating pressure too high	Reduce operating pressure
	Compressor cycle too long. Proper cycle is 50-60% on Stop/ Start operation.	Allow for longer rest between cycles
Compressor Loads and Unloads or Stops and Starts Excessively	Leaks in air system	Replace worn components as necessary
	Pressure switch differential adjusted too close	Make necessary adjustments
	Defective compressor valves	Replace valves
	Compressor too small for intended use	Upgrade to larger compressor
	Automatic Overload Reset	Wait 20 minutes and the Automatic Overload will reset
Insufficient output, low discharge pressure	Clogged inlet filter	Clean or replace as necessary
	Leaks in air lines, air valves, fittings, etc.	Replace worn components as necessary
	Compressor incorrectly sized	Upgrade to larger compressor
	Drain valve left open	Close drain valve
	Defective pressure gauge	Replace pressure gauge
	Leaking head gasket	Replace head gasket
	Pressure switch adjusted too low, or defective	Make necessary adjustments
	Worn or defective compressor valves	Replace worn parts
	Worn piston work out ring	Replace worn parts
	Restrictive check valve	Clean check valve and replace if necessary

TROUBLE SHOOTING

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
Motor stalls	Faulty unloader / check valve	Replace unloader check valve
	Valves incorrectly installed	Install valves correctly
Excessive Vibration	Loose compressor, motor	Tighten components
	Excessive discharge pressure	Reduce operating pressure
	Leg bolts tightened too tightly to floor	Loosen leg bolts
	Worn rods, wrist pin or main bearings	Check and replace worn parts
Compressor Knocks	Compressor valves loose or broken	Check and replace worn or broken valves
	Inspect check valve, it may knock at low pressures	Remove and clean check valve



WOOD INDUSTRIES STANDARD WARRANTY

Seller warrants products of its own manufacture against defects in workmanship and materials under normal use and service as follows:

COMPRESSORS: TWELVE (12) MONTHS FROM DATE OF START-UP

Notice of the alleged defect must be given to Seller in writing with all identifying details including serial number, model number, type of equipment and date of purchase, within thirty (30) days of the discovery of same during the warranty period.

WII's sole obligation on this warranty shall be, at its option, to repair, replace, or refund the purchase price of any product or part thereof, which proves to be defective, F.O.B. WII shop.

If requested by WII, such product or part thereof must be promptly returned to WII, freight prepaid for inspection.

This warranty shall not apply and WII shall not be responsible nor liable for:

- a) Consequential, collateral, or special losses or damages;
- b) Equipment conditions caused by normal wear and tear, abnormal conditions of use, accident, neglect or misuse of equipment, improper storage or damages resulting during shipment;
- c) Deviation from operating instructions, specification or other special terms of sale;
- d) Labor charges, loss or damage resulting from improper operation, maintenance or repairs made by person(s) other than **WII** or **WII** authorized service representative;
- 3) Improper application of product.

In no event shall WII be liable for any claims, whether arising from breach of contract or warranty of claims of negligence or negligent manufacture, in excess of purchase price.

THIS WARRANTY IS THE SOLE WARRANTY OF WII AND ANY OTHER WARRANTIES, EXPRESSED, IMPLIED IN LAW OR IMPLIED IN FACT, INCLUDING ANY WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR USE, ARE HEREBY SPECIFICALLY EXCLUDED.

NOTES

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