

Eastwood®

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Item #31289

3 GALLON, OILLESS PANCAKE COMPRESSOR

INSTRUCTIONS



The **EASTWOOD 3 GALLON, OILLESS PANCAKE COMPRESSOR**, with an Integral Air Regulator, efficiently supplies all compressed air requirements for operating Eastwood Powder Coating Gun systems as well as most airbrushes. The compact, efficient design also works well with some lower demand air tools, tire inflation, blow guns and many other compressed air applications.

SPECIFICATIONS

Power Requirement:	120V 60Hz, 2.5-amp
Motor Horsepower:	1/3 hp
Tank Size:	3 gallon
Air Delivery:	1.0 SCFM @ 40 PSI, 0.6 SCFM @ 90 PSI
Cut-in Pressure:	85 PSI
Cut-out Pressure:	100 PSI
Max. Pressure:	100 PSI
Power Cord:	6ft, 3-prong grounded, 18 AWG

SAFETY INFORMATION

The following explanations are displayed in this manual, on the labeling, and on all other information provided with this product:

DANGER

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

CAUTION used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

NOTICE is used to address practices not related to personal injury.



READ INSTRUCTIONS

- Thoroughly read and understand this manual before using.
- Save for future reference.



WARNING FIRE OR EXPLOSION HAZARD!

- Never 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 vapors from gasoline or other solvents, they may ignite, causing fire or explosion. Always operate the compressor in a well-ventilated area. Do not smoke while spraying. Do not spray where sparks or flame are present. Keep compressor as far from spray area as possible.

SAFETY INFORMATION



⚠ WARNING BURSTING HAZARD!

- Tank can rupture causing personal injury. Failure to drain tank can lead to corrosion and rupture. Drain moisture from the tank on a daily basis.
- Pull the Pressure Relief Valve ring daily to test that the valve is functioning properly, and to clear the valve of any possible obstructions.
- Do not weld, drill or modify the air tank of this compressor. Welding or modifications on the air compressor tank can severely impair tank strength and cause an extremely hazardous condition.
- Check the manufacturer's maximum pressure rating for air tools and accessories. Compressor outlet pressure must be regulated so as to never exceed the maximum pressure rating of the tool. Relieve all pressure through the hose before attaching or removing accessories.
- Do not adjust the Pressure Relief Valve for any reason. The Pressure Relief Valve has been pre-set at the factory for the maximum safe pressure of this unit. Personal injury and/or property damage may result if the relief valve is tampered with.
- Use only hose, pipe and fittings rated for compressed air distribution lines.



⚠ WARNING ELECTRICAL SHOCK HAZARD!

- Never use an electric air compressor outdoors when it is raining or on a wet surface, as it may cause an electric shock.
- Compressor plugs must match the outlet. Never modify the plug in any way. Do not use adapter plugs with grounded compressors. Standard plugs and matching outlets will reduce risk of electric shock.



⚠ WARNING INJURY HAZARD!

- This unit starts automatically. ALWAYS shut off the compressor, remove the plug from the outlet, and bleed all pressure from the tank before servicing the compressor, and when the compressor is not in use. Do not use the unit with the shrouds removed. Serious injury could occur from contact with moving parts



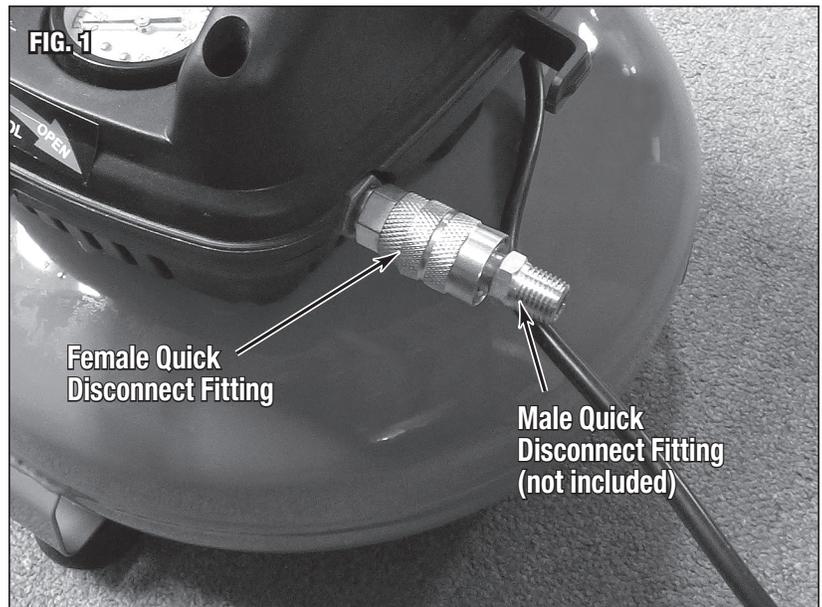
⚠ NOTICE

- To provide proper ventilation for cooling and prevent overheating, the compressor must be kept a minimum of 12 inches (31 cm) from the nearest wall, in a well-ventilated area. Do not cover compressor while in use.

COMPRESSOR SET UP

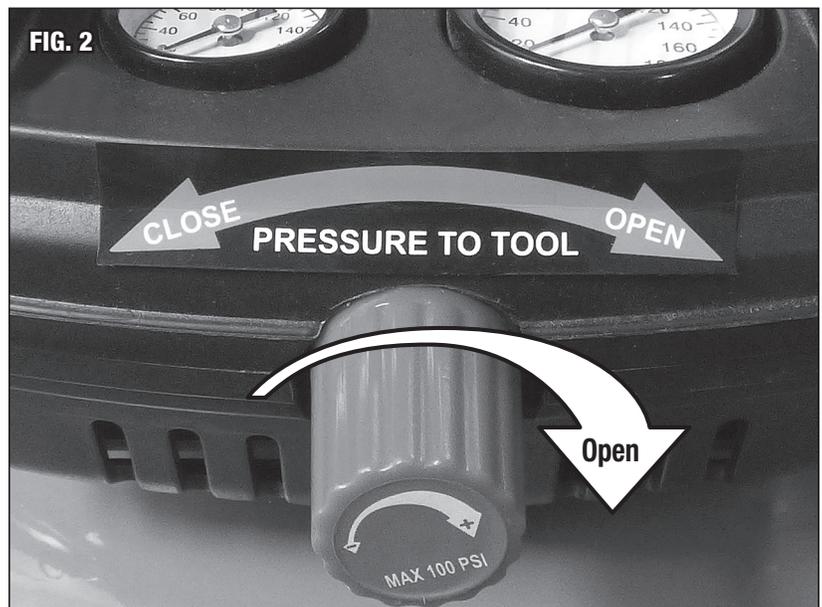
An initial new compressor break-in procedure must be performed for best performance and maximum pump life. To do so:

1. With the Compressor unplugged, Insert a male quick disconnect fitting (NOT INCLUDED) into the installed female Quick Disconnect (FIG 1).
2. Open the Pressure Regulator fully (FIG 2).
3. Make sure the Power Switch is in the "OFF" position.
4. Plug the Power Cord into an appropriate 120 VAC, 15 Amp grounded outlet.
5. Move the Power Switch to the "ON" position.
6. Allow the Compressor to run for 30 minutes. Air will discharge freely from the male quick disconnect fitting.
7. After 30 minutes, move the Power Switch to the "OFF" position and unplug the Power Cord.
8. Remove the previously installed male quick disconnect fitting.
9. The Compressor is now ready for use.



COMPRESSOR OPERATION

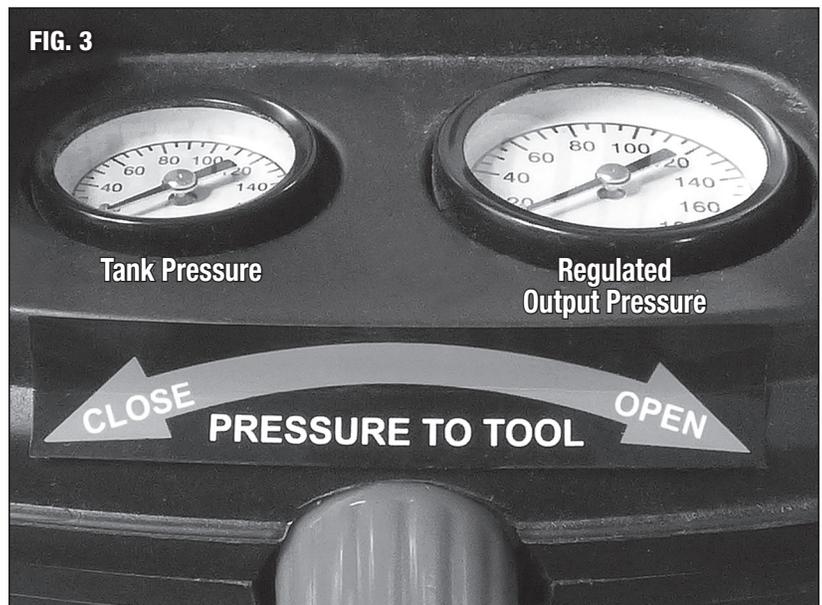
1. Before each use, pull and release the Pressure Release Safety Valve to verify it is not stuck.
2. Plug the power cord into an appropriate 120 VAC, 15 Amp grounded outlet.
3. Move the Power Switch to the "ON" position.
4. Allow the Tank to fill to 85 PSI before each use. With the Air Compressor turned on, operation is automatic and under the control of the internal Pressure Controller. It will turn off @ 100 PSI and automatically restart @ 85 PSI.



PRESSURE REGULATOR ADJUSTMENT

Set the appropriate air pressure output based on the demands of the air tool being used.

1. Turn the Pressure Regulator Adjustment knob to the left (Counter-Clockwise) to decrease output air pressure; to the right (Clockwise) to increase the output air pressure (FIG 2).
2. The output air pressure setting will be indicated on the Output Air Pressure Gauge.
NOTE: The Gauge located on the Left of the Control Panel indicates Tank Pressure while the Gauge located on the Right indicates the Regulator Controlled Output Pressure (FIG 3).



USING THE PRESSURE RELEASE SAFETY VALVE MANUALLY

In addition to emergency over pressure relief function, the Pressure Release Safety Valve can be used when rapid tank air pressure release is desired. To do so:

1. Move the Power Switch to the "OFF" position and unplug Power Cord.
2. Pull and hold the Air Release Safety Valve ring to release pressure from the Tank (FIG 4).
3. When all pressure is released, release the ring on the Air Release Safety Valve.

CONDENSATION DRAIN

In normal use particularly in humid environments, moisture will condense and collect in the tank. It must be used after each use to drain all accumulated moisture. Failure to do so can cause internal tank corrosion, perforation and ultimate failure. Tank moisture draining procedure:

1. Move the Power Switch to the "OFF" position and unplug Power Cord.
2. Pull and hold the Air Release Safety Valve ring to release pressure from the Tank until the Tank Pressure Gauge reads less than 20 PSI (FIG 4).
3. Release the ring.
4. Slowly rotate drain valve counterclockwise to open (FIG 5). Only slightly open the water Drain Valve to blow air and moisture out of the Tank.

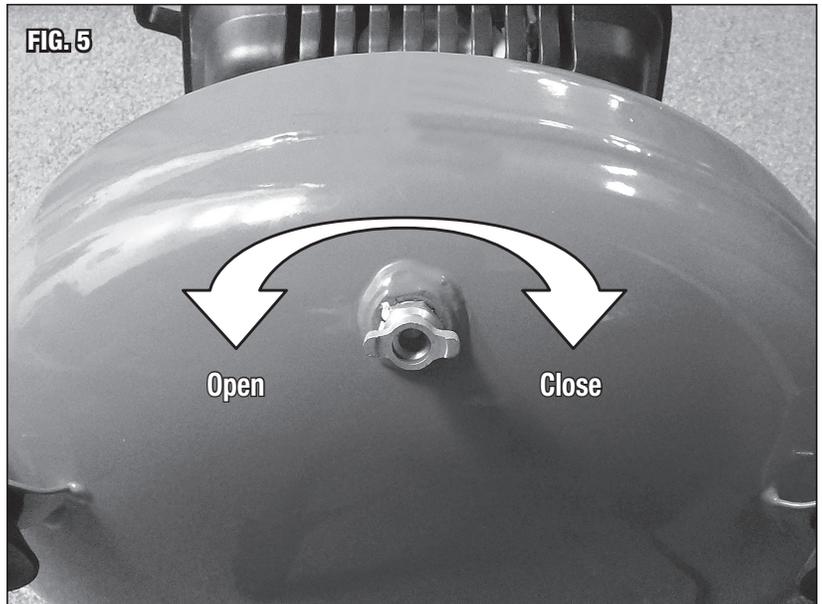
⚠ CAUTION

Opening it all the way or too quickly will cause contaminated water to be blown out at high velocity. Wear appropriate eye protection.

5. Tilt tank to drain moisture from tank into a suitable container.

⚠ NOTICE

Condensate is a polluting material and should be disposed of in compliance with local regulations. If drain valve becomes clogged, release all air pressure, remove and clean valve, then reinstall.



THERMAL BREAKER RESET BUTTON

As long as the SCFM capacity (**1.0 SCFM @ 40 PSI, 0.6 SCFM @ 90 PSI**) of the Eastwood 3 Gallon Oilless Pancake Compressor is not exceeded, it is capable of running continuous automatically controlled on/off cycles. If the SCFM demands are exceeded, the Compressor will run continuously in efforts to meet demand. If this occurs, the motor will overheat and the Thermal Protection Breaker will activate and cause the motor to shut off. If this should occur, allow the motor to cool then press the black Reset Button located next to the ON/OFF switch (**FIG 6**).

NOTE: The motor will only start when it has cooled sufficiently.



MAINTENANCE

IMPORTANT NOTE: The following maintenance should be performed before each use:

- Inspect tank and fittings for damage or leaks.
- Drain moisture from tank.
- Test Pressure Relief Valve.
- Clean dirt and debris from motor air cooling slots.

TROUBLESHOOTING

PROBLEM	CAUSE	CORRECTION
Does Not Run When Switch is Turned On	No Power	Check 120 VAC power source and plug connection.
		Check for tripped Thermal Protection Breaker and overheated motor condition.
Compressor Motor Stops Running	Motor Overheated and Thermal Protection Protection Breaker Tripped	Wait for motor to cool , then press Thermal Protection Breaker Button.
Compressor Runs Too Slow/Develops Low Power	Excessive Voltage Drop	Under-sized and/or too long of an extension cord used. Use only 16 Gauge or larger cord and limit length to 25'.
Compressor Runs Constantly	Excessive Air Supply Demand	Do not exceed 1.0 SCFM @ 40 PSI or 0.6 SCFM @ 90 PSI.
	Air Leak at Fitting or Hose	Stop compressor use, locate leak and perform repair.
Motor Overheats	Excessive Air Supply Demand	Do not exceed 1.0 SCFM @ 40 PSI or 0.6 SCFM @ 90 PSI.
	Dirt and Cutting Debris Buildup in Motor Cooling Air Slots	Use a brush or compressed air to remove debris.

OPTIONAL ITEMS

- #13958 Air Hose
- #34066 Disposable Air Filter
- #13956 Quick Coupler Set
- #13957 Mini Blow Gun Set
- #11476 Compact Infrared Thermometer
- #10027 High Temp Fiberglass Masking Tape
- #21669 High Temp Silicone Masking Tape
- #43045 0.041" Stainless Steel Hanging Wire
- #58041 High-Temp Silicone Masking Plugs and Caps
- #14104 Eastwood Beginner's Powder Coating Handbook
- #15635 Eastwood Bench-Top Powder Coating Oven
- #11676 Eastwood Dual-Voltage Powder-Coating Gun
- #10198 Eastwood Original Powder-Coating Gun

If you have any questions about the use of this product, please contact

The Eastwood Technical Assistance Service Department: 800.544.5118 >> email: techelp@eastwood.com
PDF version of this manual is available online >> eastwood.com/31289manual

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