



Assembly & Instruction Manual **ITEM 1204**



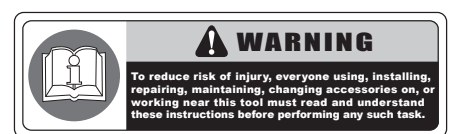
OILESS AIR COMPRESSOR WITH 13 GALLON TANK

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You can purchase additional items at
www.cumminstools.com

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Customer Service Postal Address:
1290 35 Road
Minden, NE 68959
Voice: 1-(308) 832-2070
Fax: 1-(308) 832-2069



WARNING
To reduce risk of injury, everyone using, installing, repairing, maintaining, changing accessories on, or working near this tool must read and understand these instructions before performing any such task.

Your new OILESS AIR COMPRESSOR WITH 13 GALLON TANK has been engineered and manufactured to Cummins Industrial Tools high standards for dependability, ease of operation, and operator safety. Pay close attention to the Rules for Safe Operation, Warnings, and Cautions. If you use your machine properly and only for what it is intended, you will enjoy years of safe, reliable service.

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INTRODUCTION

- THIS PRODUCT has many features for making the use of this product more pleasant and enjoyable. Safety, performance, and dependability have been given top priority in the design of this product making it easy to maintain and operate.

⚠ WARNING: Do not attempt to use this product until you thoroughly read and completely understand the operator's manual. Pay close attention to the safety rules, including Dangers, Warnings, and Cautions. If you use your product properly and only as intended, you will enjoy years of safe, reliable service.

- ⚠ **Look for this symbol to point out important safety precautions. It means attention!!! Your safety is involved.**



⚠ WARNING: The operation of any tool can result in foreign objects being thrown into your eyes, which can result in severe eye damage. Before beginning operation, always wear safety goggles or safety glasses with side shields and a full face shield when needed. We recommend Wide Vision Safety Mask for use over eyeglasses or standard safety glasses with side shields. Always wear eye protection which is marked to comply with ANSI Z87.1.

GENERAL SAFETY RULES

⚠ WARNING: When using tool, basic safety precautions should always be followed to reduce the risk of personal injury and damage to equipment. Read all instructions before using the tool!

- **Work area conditions.** Cluttered areas invite injuries.
- **Additional work area conditions.** Do not use machines or power tools in damp or wet locations. Do not expose to rain. Keep work area well lighted.
- **Keep children away.** Children must never be allowed in the work area. Do not let them handle machines, tools or extension cords.
- **Store idle equipment.** When not in use, tools must be stored in a dry location to inhibit rust. Always lock up tools and keep out of reach of children.
- **Use the right tool for the job.** Do not attempt to force a small tool or attachment to do the work of a larger industrial tool. There are certain applications for which this tool was designed. It will do the job better and more safely at the rate for which it was intended. Do not modify this tool and do not use this tool for a purpose for which it was not intended.
- **Dress properly.** Do not wear loose clothing or jewelry as they can be caught in moving parts. Protective, electrically non-conductive clothes and non-skid footwear are recommended when working. Wear restrictive hair covering to contain long hair.
- **Use eye protection.** Always wear ANSI approved impact safety glasses underneath a full face shield during use. Also, wear heavy duty work gloves.
- **Do not overreach.** Keep proper footing and balance at all times. Do not reach over or across running machines.
- **Maintain tools with care.** Keep tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories. The handles must be kept clean, dry, and free from oil and grease at all times.
- **Remove adjusting keys and wrenches.** Check that keys and adjusting wrenches are removed from the tool or machine work surface before starting work.
- **Stay alert.** Watch what you are doing, use common sense. Do not operate any tool when you are tired.
- **Check for damaged parts.** Before using any tool, any part that appears damaged should be carefully checked to determine that it will operate properly and perform its intended function. Any part that is damaged should be replaced.
- **Replacement parts and accessories.** When servicing, use only identical replacement parts. Use of any other parts will void the warranty. Only use accessories intended for use with this tool. Approved accessories are available from Cummins Industrial Tools.
- **Do not operate tools if under the influence of alcohol or drugs.** Read warning labels on prescriptions to determine if your judgment or reflexes are impaired while taking drugs. If there is any doubt, do not operate the tool.

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

SPECIFIC SAFETY RULES

Electrical Shock Hazard

- Never use the compressor without connection to a properly grounded outlet with the specified voltage and fuse protection.
- Do not use the compressor in a wet or explosive environment.
- Never attempt maintenance or adjustment with power connected of the equipment in operation.

Tank Safety Valve

- This valve is factory installed to prevent the air receiver from damage should a malfunction occurs in the compressor pump.
- It is factory set at a specified limit for your particular model and adjustments should never be tampered by yourself or the warrant will automatically be void otherwise.

Pressure Switch

- The air pressure switch is set at the factory optimum performance of you equipment. Never bypass or remove this switch as serious damage to equipment or personal injury could result from too high an air pressure.

Motor and Compressor Pump

- Air compressor get hot while in operation. Never touch the motor, discharge tubing, or compressor pump while in operation.
- The compressor operates automatically while the power is connected.
- Never attempt any adjustment with the power on.

Compressed Air Caution

- Compressor air from the unit may contain carbon monoxide. Air produced is not suitable for breathing purposes.
- Always use a respirator when spraying paint or chemicals.
- Always wear safety glasses or goggles when spraying air.

Air Receiver

- Over pressurizing the air receiver could cause an explosion or rupture. To protect over pressurizing a factory preset safety valve is included. Do not remove, make adjustments or substitutions to this valve.
- Occasionally pull the ring on the valve to make sure that the valve operates freely. If the valve does not operate freely, it must be replaced. Never weld to, drill into, or change the air receiver in any way.

SPECIFIC SAFETY RULES

- If any of the above conditions are changed or tampered with this will result in voiding of the manufacturer's warranty. Be advised that any replacement parts should be purchased with the same specifications as the original equipment. Please contact your authorized dealer for replacement parts or specifications.

Other

- Do not smoke while operating the air compressor. To avoid the ignition of a fire or explosion, never spray where sparks or flame is present.

PRODUCT SPECIFICATIONS

- 1.5 HP
- 13 Gallon
- 115V, 60Hz, 15 Amp
- 5.2 SCFM @ 40 PSI, 4.2 SCFM @ 90 PSI
- Maximum pressure 115 PSI
- 3400 RPM

UNPACKING

INSTRUCTIONS

When unpacking the tool:

- Carefully remove the tool and accessories from the box.
- Make sure that all items listed in the packing list are included.
- Inspect the tool carefully to make sure no breakage or damage occurred during shipping.
- Do not discard the packing material until you have carefully inspected and satisfactorily operated the tool.

⚠ WARNING: If any part are missing do not operate the tool until the missing parts are replaced. Failure to do so could result in possible serious personal injury.

APPLICATIONS

Depending on the S.C.F.M. draw of the tools being operated, your new air compressor can be used for operating:

- paint sprayers
- air tools
- grease guns
- airbrushes
- caulking guns
- sandblasters
- inflating tires and plastic toys
- spraying weed killer and insecticides
- etc.

Note: An air pressure regulator is usually necessary for most of these applications.

FEATURES

- Tank with one regulator, one coupler and two gauges
- 50% duty cycle
- Single phase, single stage
- ASME approved safety valve
- Finned copper outlet tube
- Direct drive compressor pump
- Oil lubrication for long life
- Thermal overload protection for safety and reliability

OPERATION

General Description of Operation

- To compress air, the pistons move up and down in the cylinder. On the down stroke, air is drawn in through the valve inlet. The discharge valve remains closed. On the upstroke of the piston, air is compressed. The inlet valve closes and compressed air is forced out through the discharge valve, through the check valve and into the air receiver. Working air is not available until the compressor has raised the air receiver's pressure above that required at the air service connection. The air inlet filter openings must be kept clear of obstruction or else it could reduce air delivery of the compressor.

OPERATION

Installation and Location

- Locate the compressor in a clean, dry and well-ventilated area. The compressor should be located 12 to 18 inches away from a wall or any other obstruction that could interfere with the air flow through the fan blade belt wheel. Place the compressor on a firm level surface. The compressor is designed with heat dissipation fins that allow for proper cooling. Keep the fins and other parts that collect dust or dirt clean. A clean compressor runs cooler and provides longer service. Do not place rags, containers, or other material on top of the compressor.

Assembly

- Remove air filter from plastic bag and screw it into the thread hole. Be sure to always clean air filter before and after use.
- Remove the clear plastic oil cap and replace it with the oil cap.

MAINTENANCE

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

- Disconnect electrical power
- Drain air tank of pressure.

During the break-in period, nuts and bolts have a tendency to loosen up. After two weeks tighten all nuts and bolts including head bolts then check everything once a month to make sure all nuts and bolts stay tight.

Daily or before each use

- 1- Check oil level.
- 2- Drain condensation from tank.
- 3- Check for any unusual noise or vibration.
- 4- Be sure all nuts and bolts are tight.

Weekly

- 1- Clean air filter by opening air filter cap. Remove the filter element and clean thoroughly with soap and water. Rinse thoroughly and allow to dry completely before assembly.
- 2- Clean breather holes on oil check dipstick.

Monthly

- 1- Inspect air system for leaks by applying soapy water to all joints. Tighten those joints if leakage is observed.

MAINTENANCE

250 hours or six (6) months (whichever comes first)

- 1- Change compressor oil
- 2- Replace oil more often if compressor is used near paint spraying operations or in dusty environments.

Compressor Lubrication

Note: Check the oil quantity and quality before operating the compressor. Do not add or change oil while the compressor is in operation. Use only SAE 20 or SAE 30 weight non-detergent oil.

Compressor with oil level sight glass

- 1- Sit air compressor on level surface. The oil level should be at the red dot on the oil level sight glass.
- 2- If oil level is low, remove oil fill plug, add enough oil to bring level to the read dot in the oil level sight glass.
- 3- Replace oil fill plug before starting compressor.

Draining the oil

- 1- Remove the oil drain plug. Allow oil to drain completely.
- 2- Replace the oil drain plug (we recommend the use of a sealing compound or Teflon tape to avoid leakage).
- 3- Refill with the recommended oil to the red dot in the oil level sight glass.

Starting compressor

- 1- Make sure the amount of oil is adequate before each use.
- 2- Check all nuts and screws for secured tightness.
- 3- Make sure wiring fuse and power supply is correctly installed.
- 4- Make sure all pressure and water is released from tank.
- 5- Turn on power switch. The pressure inside the tank will increase until it reaches 90 PSI. The system will then automatically shut down at this point.
- 6- Connect air tool and start the compressor to begin use. Note: Be sure to check manufacturer's maximum pressure rating for air tools and accessories. Compressor outlet pressure must be regulated to never exceed the maximum pressure rating of the tool.
- 7- Use the regulator knob to control the amount of air pressure for the attached air tool. Turn the knob clockwise to increase air pressure and counter-clockwise to reduce air pressure.
- 8- To enable the best air pressure release and avoid air leakage, use Teflon tape to wrap around hose and coupler thread.

Air release

- 1- Turn the power switch off after each use of the compressor.
- 2- Open drain valve underneath the tank and release all the air and moisture inside.
- 3- The pressure gauge should now fall back to 0 PSI.
- 4- Release all the air from the attached air tool, then disconnect hose from the quick coupler.

TROUBLESHOOTING

Trouble

- No start condition
- Low Pressure
- Safety valve releasing
- Oil discharge in air

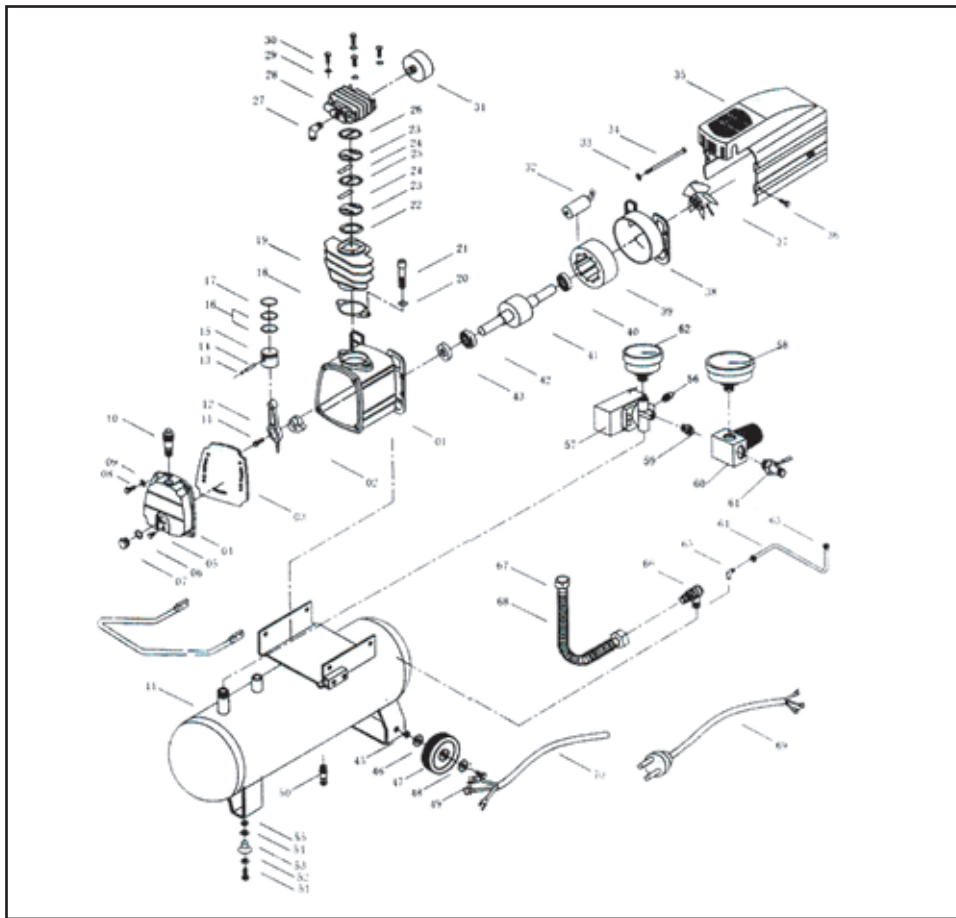
Possible

- Fuse blown or circuit breaker tripped.
- Loose electrical connections.
- Overheated motor.
- Air leak in safety valve.
- Restricted air filter.
- Defective check valve.
- Defective pressure switch or improper adjustment.
- Improper oil viscosity.
- Too much oil in crank case.
- Compressor overheated.
- Restricted air filter.

Corrective Action

- Check for cause of blown fuse/breaker and replace or reset.
- Check wiring connections.
- Press the reset button or wait for automatic reset.
- Check valve manually by pulling upward on rings. If condition persists, replace valve.
- Clean or replace as necessary.
- Replace check valve.
- Check for proper adjustment and if problem persists, replace pressure switch.
- Replace oil with SAE 30 or SAE 20 weight non-detergent oil.
- Drain crank case and fill to proper level.
- Air pressure regulated too high.
- Clean or replace filter.
- For assistance in solving parts problems please refer to the parts and components for our air compressors by number.
- When a new replacement is needed include the model number of the air compressor, part number and quantity required.
- If a new assembly is required, include the model number of the air compressor undergoing repair (according to the nameplate, the part name, part number and quantity required according to the number on the parts diagram).

EXPLODED DIAGRAM & PARTS LIST



1.	Crank Case	19.	Cylinder	37.	Fan	55.	Bolt
2.	Crank Shaft	20.	Washer	38.	Rear Cap	56.	Safety Valve
3.	Crank Case Cover	21.	Bolt	39.	Stator	57.	Pressure Switch
4.	Crank Case Cover	22.	Valve Gasket	40.	Bearing	58.	Pressure Gauge
5.	Bolt	23.	Valve	41.	Rotator	59.	Connect
6.	Cover	24.	Valve Assembly	42.	Bearing	60.	Regulator
7.	Oil Glass	25.	Gasket	43.	Shaft Seal	61.	Air Cock
8.	Bolt	26.	Cylinder Head Gasket	44.	Tank	62.	Pressure Gauge
9.	Spring	27.	Elbow Exhaust	45.	Bolt	63.	Unloading Screen
10.	Breather	28.	Cylinder Heed	46.	Washer	64.	Unloading
11.	Bolt	29.	Washer	47.	Wheel	65.	Unloading Elbow
12.	Connect Rod	30.	Bolt	48.	Washer	66.	Check Valve
13.	Spring	31.	Air Filter	49.	Washer	67.	Exhaust Pipe Unit
14.	Wrist Pin	32.	Capacitance	50.	Drain Cock	68.	Exhaust Pipe
15.	Piston	33.	Washer	51.	Bolt	69.	Cable Connect
16.	Piston Ring	34.	Bolt	52.	Washer	70.	Plug
17.	Washer	35.	Convoy	53.	Cushion Foot		
18.	Gasket	36.	Bolt	54.	Washer		