

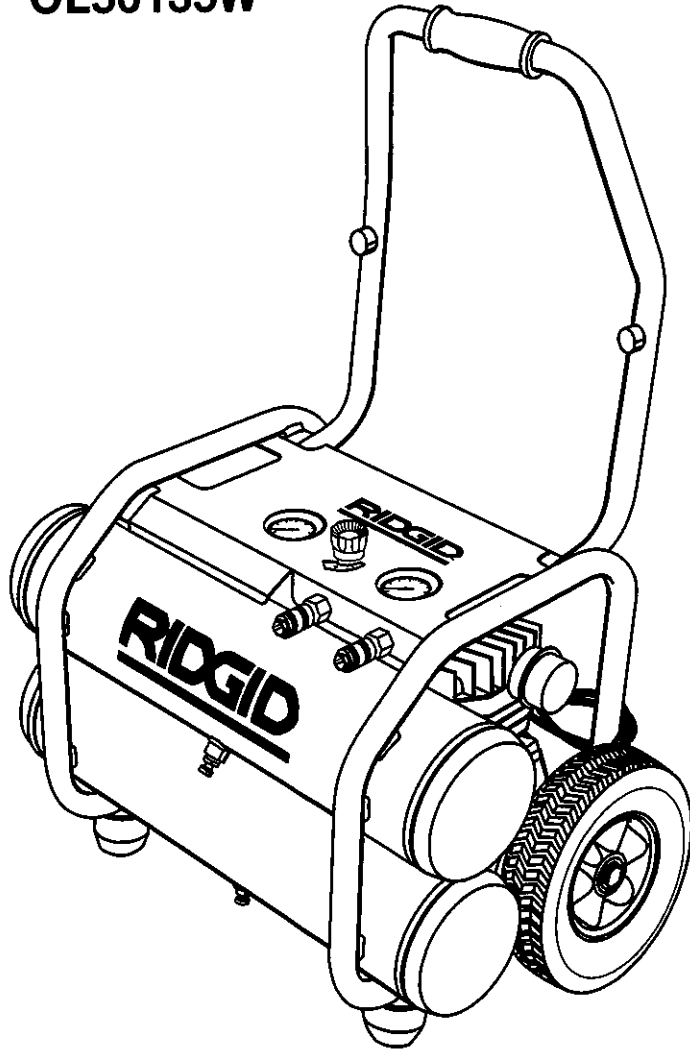
RIDGID®

OPERATOR'S MANUAL

5 GALLON PORTABLE
AIR COMPRESSOR

OIL LUBRICATED
DIRECT DRIVE

OL50135W



Your air compressor has been engineered and manufactured to our high standard for dependability, ease of operation, and operator safety. When properly cared for, it will give you years of rugged, trouble-free performance.

⚠ WARNING:

To reduce the risk of injury, the user must read and understand the operator's manual before using this product.

Thank you for buying a RIDGID product.

SAVE THIS MANUAL FOR FUTURE REFERENCE

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INTRODUCTION

This tool has many features for making its use 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.

DANGER:

This compressor/pump is not equipped and should not be used to supply breathing quality air. Additional equipment would be necessary to properly filter and purify the air to meet minimal specifications for Grade D breathing as described in Compressed Gas Association Commodity Specification G 7.1 - 1966, OSHA 29 CFR 1910.134. Compressed Gas Association, 4221 Walney Road, Fifth Floor, Chantilly, VA 20151-2923, (703) 788-2700, www.cganet.com. Any such additional equipment has not been examined and no implication of proper use for breathing air is intended or implied.

If this compressor is altered in any way, existing warranties shall be voided.
RIDGID disclaims any liabilities whatsoever for any loss, personal injury, or damage.

DISCLAIMER OF WARRANTIES

In the event the compressor is used for the purpose of breathing air application and proper in-line safety and alarm equipment is not simultaneously used, existing warranties shall be voided, and RIDGID disclaims any liabilities whatsoever for any loss, personal injury, or damage.

GENERAL SAFETY RULES

WARNING:

Read and understand all instructions. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious personal injury.

SAVE THESE INSTRUCTIONS

WORK AREA

- **Keep your work area clean and well lit.** Cluttered benches and dark areas invite accidents. Floor must not be slippery from wax or dust.
- **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.** Power tools create sparks which may ignite the dust or fumes.
- **Keep bystanders, children, and visitors away while operating tools.** Distractions can cause you to lose control.
- **Operate air compressor in an open area at least 18 in. away from any wall or object that could restrict the flow of fresh air to ventilation openings.**

ELECTRICAL SAFETY

- **Avoid body contact with grounded surfaces such as pipes, radiators, ranges, and refrigerators.** There is an increased risk of electric shock if your body is grounded.
- **Don't expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- **Do not abuse the cord. Never use the cord to carry the tool or pull the plug from an outlet. Keep cord away from heat, oil, sharp edges, or moving parts. Replace damaged cords immediately.** Damaged cords increase the risk of electric shock.
- **When operating a power tool outside, use an outdoor extension cord marked "W-A" or "W".** These cords are rated for outdoor use and reduce the risk of electric shock.

PERSONAL SAFETY

- **Eye protection which conforms to ANSI specifications and provides protection against flying particles both from the FRONT and SIDE should ALWAYS be worn by the operator and others in the work area when loading, operating, or servicing this tool.** Eye protection is required to guard against flying fasteners and debris, which could cause severe eye injury.
- **The employer and/or user must ensure that proper eye protection is worn.** We recommend a Wide Vision Safety Mask for use over eyeglasses or standard safety glasses that provide protection against flying particles both from the front and side. Always use eye protection which is marked to comply with ANSI Z87.1.
- **Additional safety protection will be required in some environments.** For example, the working area may include exposure to a noise level which can lead to hearing

damage. The employer and user must ensure that any necessary hearing protection is provided and used by the operator and others in the work area. Some environments will require the use of head protection equipment. When required, the employer and user must ensure that head protection marked to comply with ANSI Z89.1 is used.

- **Stay alert, watch what you are doing, and use common sense when operating a power tool. Do not use tool while tired or under the influence of drugs, alcohol, or medication.** A moment of inattention while operating power tools may result in serious personal injury.
- **Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing, and gloves away from moving parts.** Loose clothes, jewelry, or long hair can be caught in moving parts.
- **Do not overreach. Keep proper footing and balance at all times.** Proper footing and balance enables better control of the tool in unexpected situations.
- **Use safety equipment. Always wear eye protection.** Dust mask, nonskid safety shoes, hard hat, or hearing protection must be used for appropriate conditions.
- **Do not use on a ladder or unstable support.** Stable footing on a solid surface enables better control of the tool in unexpected situations.

TOOL USE AND CARE

- **Do not exceed the pressure rating of any component in the system.**
- **Protect material lines and air lines from damage or puncture.** Keep hose and power cord away from sharp objects, chemical spills, oil, solvents, and wet floors.
- **Check hoses for weak or worn condition before each use, making certain all connections are secure.** Do not use if defect is found. Purchase a new hose or notify an authorized service center for examination or repair.
- **Release all pressures within the system slowly.** Dust and debris may be harmful.
- **Store idle tools out of the reach of children and other untrained persons.** Tools are dangerous in the hands of untrained users.
- **Maintain tools with care.** Follow maintenance instructions. Properly maintained tools are easier to control.
- **Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tool's operation. If damaged, have the tool serviced before using.** Many accidents are caused by poorly maintained tools.
- **Never point any tool toward yourself or others.**
- **Keep the exterior of the air compressor dry, clean, and free from oil and grease.** Always use a clean cloth when cleaning. Never use brake fluids, gasoline, petroleum-based products, or any strong solvents to clean the unit. Following this rule will reduce the risk of deterioration of the enclosure plastic.

GENERAL SAFETY RULES

SERVICE

- **Tool service must be performed only by qualified repair personnel.** Service or maintenance performed by unqualified personnel may result in a risk of injury.
- **Disconnect power supply, open drain valve to decompress tank and allow water to drain, and allow air compressor to become cool to the touch before**

servicing. Turn pressure regulator knob fully clockwise after shutting off compressor.

- **When servicing a tool, use only identical replacement parts. Follow instructions in the Maintenance section of this manual.** Use of unauthorized parts or failure to follow Maintenance instructions may create a risk of injury.












SPECIFIC SAFETY RULES

- **Know your power tool.** Read operator's manual carefully. Learn its applications and limitations, as well as the specific potential hazards related to this tool. Following this rule will reduce the risk of electric shock, fire, or serious injury.
- **Drain tank of moisture after each day's use.** If unit will not be used for a while, it is best to leave drain valve open until such time as it is to be used. This will allow moisture to completely drain out and help prevent corrosion on the inside of tank.
- **Risk of Fire or Explosion.** Do not spray flammable liquid in a confined area. Spray area must be well ventilated. Do not smoke while spraying or spray where spark or flame is present. Keep compressors as far from the spraying area as possible, at least 15 feet from the spraying area and all explosive vapors.
- **Risk of Bursting.** Do not adjust regulator to result in output pressure greater than marked maximum pressure of attachment. Do not use at pressure greater than 135 PSI.
- **If connected to a circuit protected by fuses, use time-delay fuses with this product.**
- **To reduce the risk of electric shock, do not expose to rain. Store indoors.**
- **Inspect tank yearly for rust, pin holes, or other imperfections that could cause it to become unsafe.** Never weld or drill holes in the air tank.
- **Make sure the hose is free of obstructions or snags.** Entangled or snarled hoses can cause loss of balance or footing and may become damaged.
- **Use the air compressor only for its intended use. Do not alter or modify the unit from the original design or function.**
- **Always be aware that misuse and improper handling of this tool can cause injury to yourself and others.**
- **Never leave a tool unattended with the air hose attached.**
- **Do not operate this tool if it does not contain a legible warning label.**
- **Do not continue to use a tool or hose that leaks air or does not function properly.**
- **Always disconnect the air supply and power supply before making adjustments, servicing a tool, or when a tool is not in use.**
- **Do not attempt to pull or carry the air compressor by the hose.**

- **Your tool may require more air consumption than this air compressor is capable of providing.**
- **Always follow all safety rules recommended by the manufacturer of your air tool, in addition to all safety rules for the air compressor.** Following this rule will reduce the risk of serious personal injury.
- **Never direct a jet of compressed air toward people or animals. Take care not to blow dust and dirt towards yourself or others.** Following this rule will reduce the risk of serious injury.
- **Do not use this air compressor to spray chemicals.** Your lungs can be damaged by inhaling toxic fumes. A respirator may be necessary in dusty environments or when spraying paint. Do not carry white painting.
- **Inspect tool cords and hoses periodically and, if damaged, have repaired at your nearest Authorized Service Center. Constantly stay aware of cord location.** Following this rule will reduce the risk of electric shock or fire.
- **Never use an electrical adaptor with this grounded plug.**
- **Check damaged parts. Before further use of the air compressor or air tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced by an authorized service center.** Following this rule will reduce the risk of shock, fire, or serious injury.
- **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. A wire gauge size (A.W.G.) of at least 14 is recommended for an extension cord 25 feet or less in length. A cord exceeding 50 feet is not recommended. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating.**
- **Save these instructions.** Refer to them frequently and use them to instruct others who may use this air compressor. If you loan someone this tool, loan them these instructions also.




SYMBOLS

Some of the following symbols may be used on this tool. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the tool better and safer.

SYMBOL	NAME	DESIGNATION/EXPLANATION
V	Volts	Voltage
A	Amperes	Current
Hz	Hertz	Frequency (cycles per second)
~	Alternating Current	Type of current
	Class II Construction	Double-insulated construction
	Wet Conditions Alert	Do not expose to rain or use in damp locations.
	Read The Operator's Manual	To reduce the risk of injury, user must read and understand operator's manual before using this product.
	Eye Protection	Always wear safety goggles, safety glasses with side shields, or a full face shield when operating this product.
	Safety Alert	Precautions that involve your safety.
	Risk of Bursting	Do not adjust regulator to result in output pressure greater than marked maximum pressure of attachment. Do not use at pressure greater than 135 PSI.
	Risk of Fire or Explosion	Do not spray flammable liquid in a confined area. Spray area must be well ventilated. Do not smoke while spraying or spray where spark or flame is present. Keep compressors as far from the spraying area as possible, at least 15 feet from the spraying area and all explosive vapors.
	Risk of Electrical Shock	Hazardous Voltage: Disconnect from power source before servicing. Compressor must be grounded.
	Hot Surface	To reduce the risk of injury or damage, avoid contact with any hot surface.
	Risk to Breathing	Air obtained directly from the air compressor should never be used to supply air for human consumption.
	Pinch Point	To reduce the risk of injury or damage, avoid contact with any pinch point.


SYMBOLS

The following signal words and meanings are intended to explain the levels of risk associated with this product.

SYMBOL	SIGNAL	MEANING
	DANGER:	Indicates an imminently hazardous situation, which, if not avoided, will result in death or serious injury.
	WARNING:	Indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury.
	CAUTION:	Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury.
	CAUTION:	(Without Safety Alert Symbol) Indicates a situation that may result in property damage.

SERVICE

Servicing requires extreme care and knowledge and should be performed only by a qualified service technician. For service we suggest you return the product to the nearest **AUTHORIZED SERVICE CENTER** for repair. When servicing, use only identical replacement parts.

 **WARNING:** To avoid serious personal injury, do not attempt to use this product until you read thoroughly and understand completely the operator's manual. Save this operator's manual and review frequently for continuing safe operation and instructing others who may use this product.

WARNING:



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

SAVE THESE INSTRUCTIONS

ELECTRICAL

EXTENSION CORDS

Use only 3-wire extension cords that have 3-prong grounding plugs and 3-pole receptacles that accept the tool's plug. When using a power tool at a considerable distance from the power source, use an extension cord heavy enough to carry the current that the tool will draw. An undersized extension cord will cause a drop in line voltage, resulting in a loss of power and causing the motor to overheat. Use the chart provided below to determine the minimum wire size required in an extension cord. Only round jacketed cords listed by Underwriter's Laboratories (UL) should be used.

**Ampere rating (on tool data plate)

Cord Length	Wire Size (A.W.G.)					
	0-2.0	2.1-3.4	3.5-5.0	5.1-7.0	7.1-12.0	12.1-16.0
25'	16	16	16	16	14	14
50'	16	16	16	14	14	12
100'	16	16	14	12	10	—

**Used on 12 gauge - 20 amp circuit.

NOTE: AWG = American Wire Gauge

When working with the tool outdoors, use an extension cord that is designed for outside use. This is indicated by the letters "W-A" or "W" on the cord's jacket.

Before using an extension cord, inspect it for loose or exposed wires and cut or worn insulation.

⚠ WARNING:

Keep the extension cord clear of the working area. Position the cord so that it will not get caught on lumber, tools or other obstructions while you are working with a power tool. Failure to do so can result in serious personal injury.

⚠ WARNING:

Check extension cords before each use. If damaged replace immediately. Never use tool with a damaged cord since touching the damaged area could cause electrical shock resulting in serious injury.

NOTE: Use longer air hoses instead of long extension cords. Your air compressor will run better and last longer.

ELECTRICAL CONNECTION

This tool is powered by a precision-built electric motor. It should be connected to a **power supply that is 120 volts, 60 Hz, AC only (normal household current)**. Do not operate this tool on direct current (DC). A substantial voltage drop will cause a loss of power and the motor will overheat. If the product does not operate when plugged into an outlet, double check the power supply.

SPEED AND WIRING

The no-load speed of this tool is approximately 3,450 rpm. This speed is not constant and decreases under a load or with lower voltage. For voltage, the wiring in a shop is as important as the motor's horsepower rating. A line intended only for lights cannot properly carry a power tool motor. Wire that is heavy enough for a short distance will be too light for a greater distance. A line that can support one power tool may not be able to support two or three tools.

GROUNDING INSTRUCTIONS

In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This tool is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.

Do not modify the plug provided. If it will not fit the outlet, have the proper outlet installed by a qualified electrician. Improper connection of the equipment-grounding conductor can result in a risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal.

Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded.

Repair or replace a damaged or worn cord immediately.

This tool is intended for use on a circuit that has an outlet like the one shown in figure 1. It also has a grounding pin like the one shown. This product must be grounded.

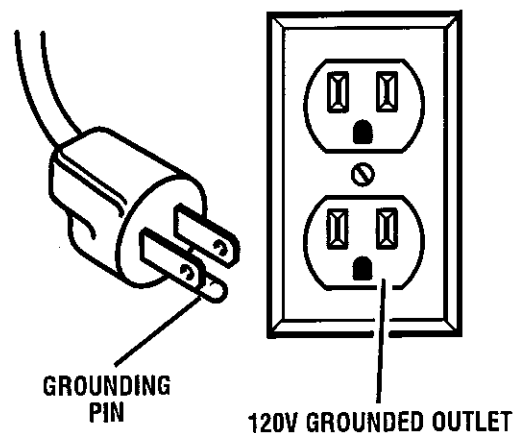


Fig. 1

GLOSSARY OF TERMS

Air Filter

Porous element contained within a metal or plastic housing attached to the compressor cylinder head which removes impurity from the intake air of the compressor.

Air Tank

Cylindrical component which contains the compressed air.

Check Valve

Device that prevents compressed air from flowing back from the air tank to the compressor pump.

Cut-In Pressure

The low pressure at which the motor will automatically restart.

Cut-Off Pressure

The high pressure at which the motor will automatically shut off.

Electric Motor

Device which provides the rotational force necessary to operate the compressor pump.

Manual On/Off Switch

Control which turns the air compressor on or off. The pressure switch will not automatically start and control the compressor unless the manual On/Off Switch is in the **ON (I)** position.

NPT

National Pipe Thread — A seal thread tape must be used to provide a leak-free seal on pipe threaded connections.

Pressure Regulator Knob

Regulates the outgoing pressure from the air outlet to the tool. It is possible to increase or decrease the pressure at the outlet by adjusting this control knob.

Pressure Switch

Automatically controls the on/off cycling of the compressor. It stops the compressor when the cut-off pressure in the tank is reached and starts the compressor when the air pressure drops below the cut-in pressure.

Pounds Per Square Inch (PSI)

Measurement of the pressure exerted by the force of the air. The actual psi is measured by a pressure gauge on the compressor.

Pump

Produces the compressed air with a reciprocating piston contained within the cylinder.

Regulator Pressure Gauge

Displays the current line pressure. Line pressure is adjusted by rotating the pressure regulator knob.

Safety Valve

Prevents air pressure in the air tank from rising over a predetermined limit.

SCFM

Standard cubic feet per minute — a unit of measure of air delivery.

Tank Pressure Gauge

Indicates the pressure in the air tank.

Thermal Overload Switch

Automatically shuts off the compressor if the temperature of the electric motor exceeds a predetermined limit.

FEATURES

PRODUCT SPECIFICATIONS

Air Tank Capacity 5 gal.
 Air Pressure 135 psi max.
 Air Delivery 4.6 SCFM @ 90 psi

Gauges 2 in. diameter
 Input 120 V, 60 Hz, AC only, 12.5 Amps
 Net Weight..... 89 lbs.

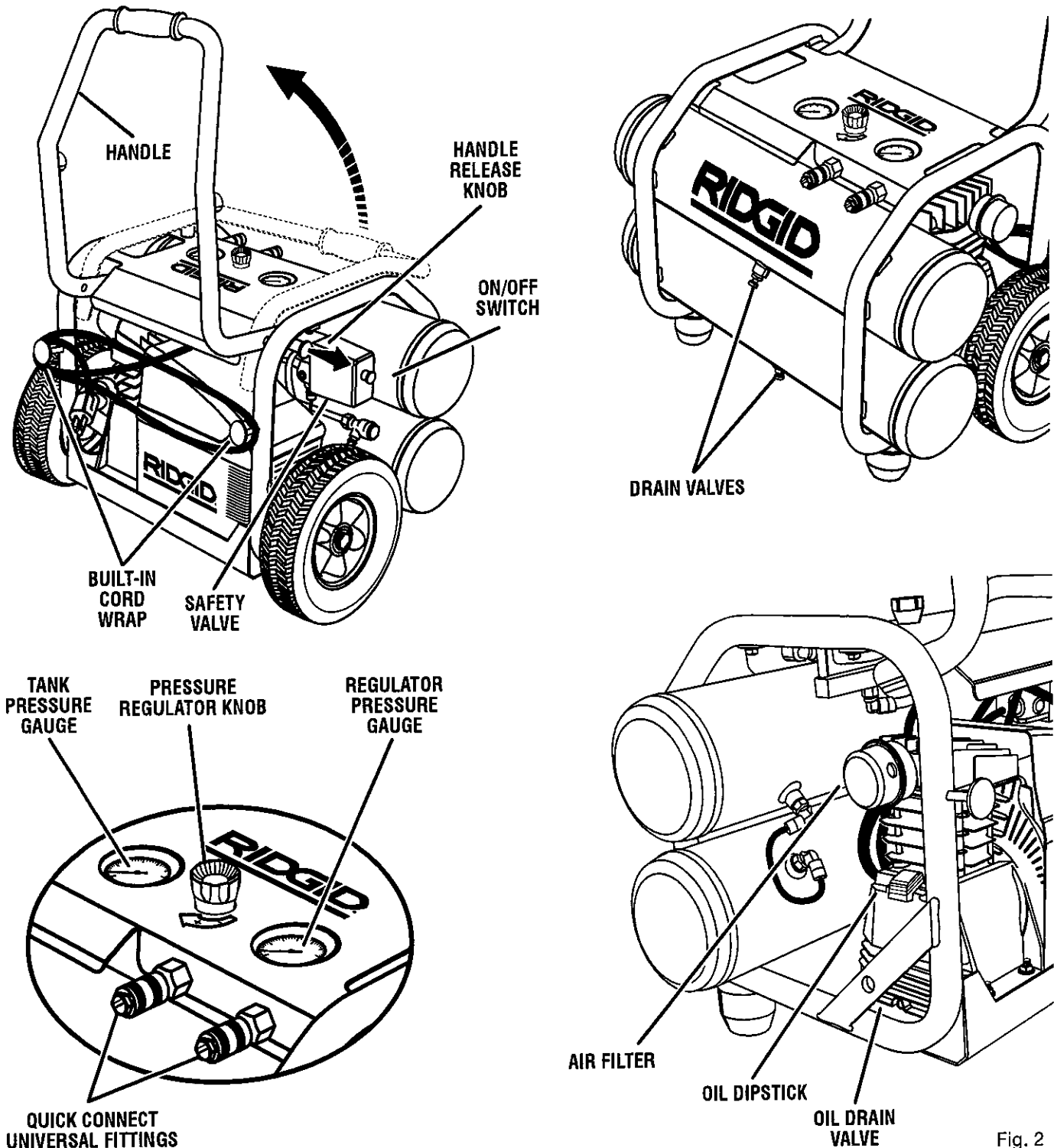


Fig. 2

FEATURES

KNOW YOUR AIR COMPRESSOR

See Figure 2.

Before attempting to use this product, familiarize yourself with all operating features and safety rules.

BUILT-IN CORD WRAP

A built-in cord wrap is provided for convenience in moving and storing the unit.

DRAIN VALVES

A drain valve is located on each tank for draining condensation to help prevent tank corrosion.

HANDLE

The handle of your air compressor lifts up for use and folds down for storage or transportation.

PRESSURE REGULATOR KNOB

Use the pressure regulator knob to adjust the amount of air being delivered through the hose. Pressing down on the knob will lock it into place. This prevents movement of the knob caused by vibration during use.

REGULATOR PRESSURE GAUGE

The current line pressure is displayed on the regulator pressure gauge. This pressure can be adjusted by rotating the pressure regulator knob.

SAFETY VALVE

The safety valve is designed to automatically release air if the air receiver pressure exceeds the preset maximum.

TANK PRESSURE GAUGE

The tank pressure gauge indicates the pressure of the air in the tank.

ASSEMBLY

UNPACKING

This product has been shipped completely assembled.

- Carefully remove the air compressor and any accessories from the box. Make sure that all items listed in the packing list are included.
- Inspect the air compressor 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 product.
- If any parts are damaged or missing, please call 1-866-539-1710 for assistance.

PACKING LIST

Air Compressor
Oil Dipstick
Operator's Manual

⚠ WARNING:

If any parts are damaged or missing do not operate this tool until the damaged or missing parts are replaced. Failure to do so could result in possible serious personal injury.

⚠ WARNING:

Do not attempt to modify this tool or create accessories not recommended for use with this tool. Any such alteration or modification is misuse and could result in a hazardous condition leading to possible serious personal injury.

INSTALLING THE DIPSTICK

See Figure 3.

To prevent oil from spilling during shipping, the air compressor has a plug installed in the oil fill hole. Before using the unit the first time, replace the plug with the oil fill dipstick and check the oil level.

- Remove the plug from the oil fill hole.
- Insert the dipstick into the oil fill hole.
- Remove the dipstick and check the oil level, making sure the oil registers between the MIN and MAX reference levels on the dipstick. If the level does not register between those areas, refer to **Checking the Oil** in the *Operation* section of this manual.
- Replace the dipstick.

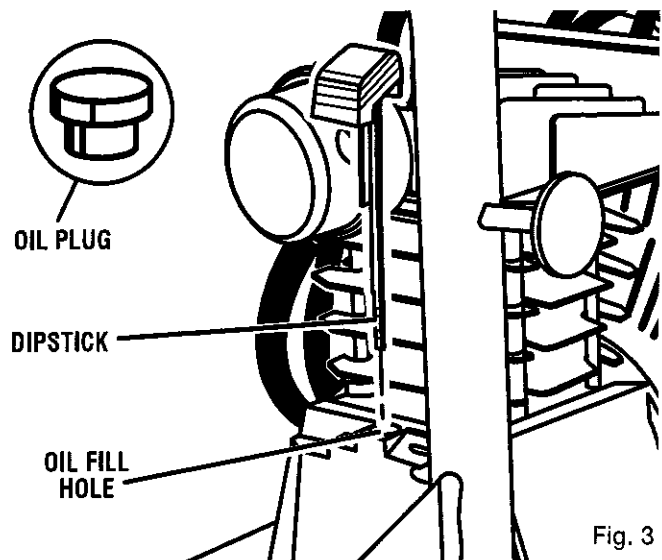


Fig. 3

ASSEMBLY

BREAKING IN THE PUMP

See Figures 4 - 5.

Perform the following steps to break in the pump before using the air compressor for the first time.

- Make sure the plug in the oil fill hole has been replaced with the dipstick and the oil level falls within the MIN and MAX range.
- Turn the pressure regulator knob fully clockwise to open the air flow. Lift the knob to adjust the air flow, and push down to lock.
- Place the switch in the **OFF (O)** position and plug in the power cord.
- Open both drain valves completely.

NOTE: The air compressor has two separate tanks: an upper tank and a lower tank. Be sure to open drain valves for both.

- Connect the air compressor to a power supply.
- Turn the air compressor **ON (I)** and run the air compressor for 10 minutes to break in pump parts.
- Place the switch in the **OFF (O)** position.
- Close the drain valves.

ATTACHING A HOSE

See Figure 6.

- Make sure the air compressor is off and unplugged.
- Rotate pressure regulator knob fully counterclockwise.
- Attach hose with male connector to quick connect universal fitting on air compressor.

⚠ WARNING:

Do not attach any tools to the open end of the hose until start-up has been completed.

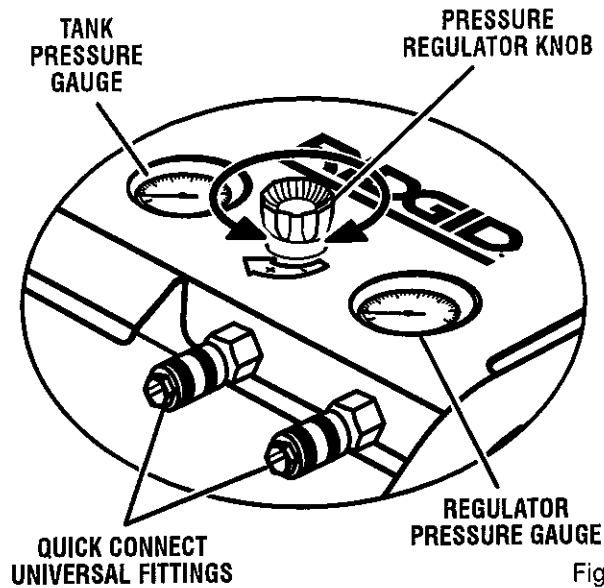


Fig. 4

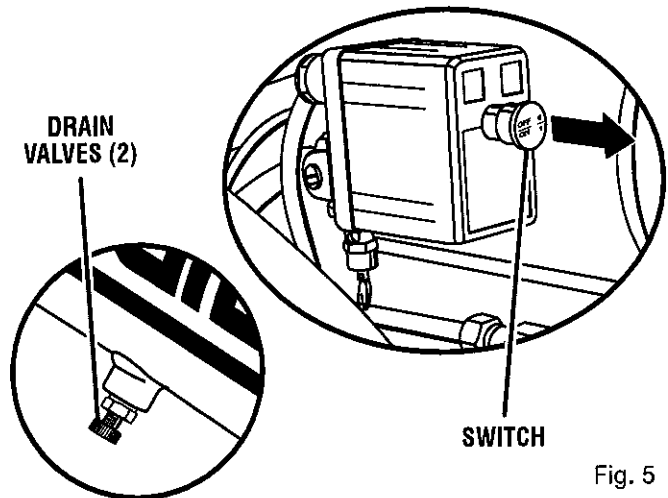


Fig. 5

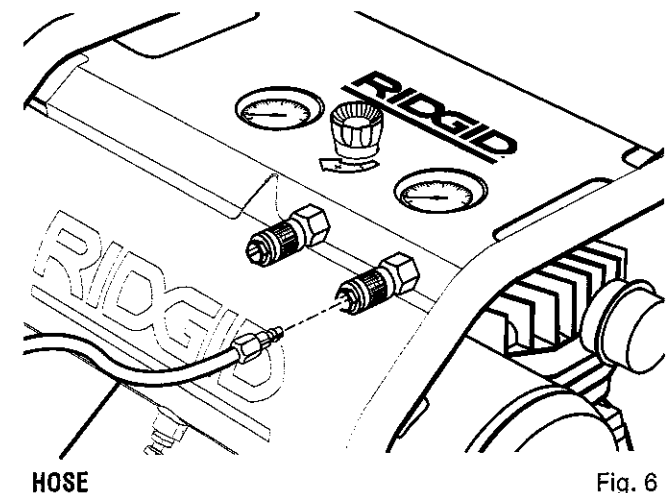


Fig. 6

OPERATION

⚠ WARNING:

Do not allow familiarity with tools to make you careless. Remember that a careless fraction of a second is sufficient to inflict severe injury.

⚠ WARNING:

Always wear safety goggles or safety glasses with side shields when operating tools. Failure to do so could result in objects being thrown into your eyes resulting in possible serious injury.

⚠ WARNING:

This equipment incorporates parts, such as snap switches, that tend to produce arcs or sparks. Therefore, when located in a garage, it should be in a room or enclosure provided for the purpose, or should be 18 in. or more above the floor.

⚠ CAUTION:

Do not use in an environment that is dusty or otherwise contaminated. Using the air compressor in this type of environment may cause damage to the unit.

APPLICATIONS

Air compressors are utilized in a variety of air system applications. Match hoses, connectors, air tools, and accessories to the capabilities of the air compressor.

You may use this air compressor for the purposes listed below:

- Operating some air-powered tools
- Operating air accessories such as air nozzles and inflators

RAISING/LOWERING THE HANDLE

See Figure 7.

The handle of the air compressor can be raised for use and lowered for storage or transportation.

To lift the handle, pull the handle release knob straight out and raise the handle until it stops. Release the knob. You will hear a click when the handle locks into place.

To lower the handle, pull the handle release knob straight out and fold it all the way down. Release the knob.

⚠ CAUTION:

When lowering the handle, avoid placing hands or fingers on top of the air compressor frame. This could cause fingers to be pinched when the handle is folded down.

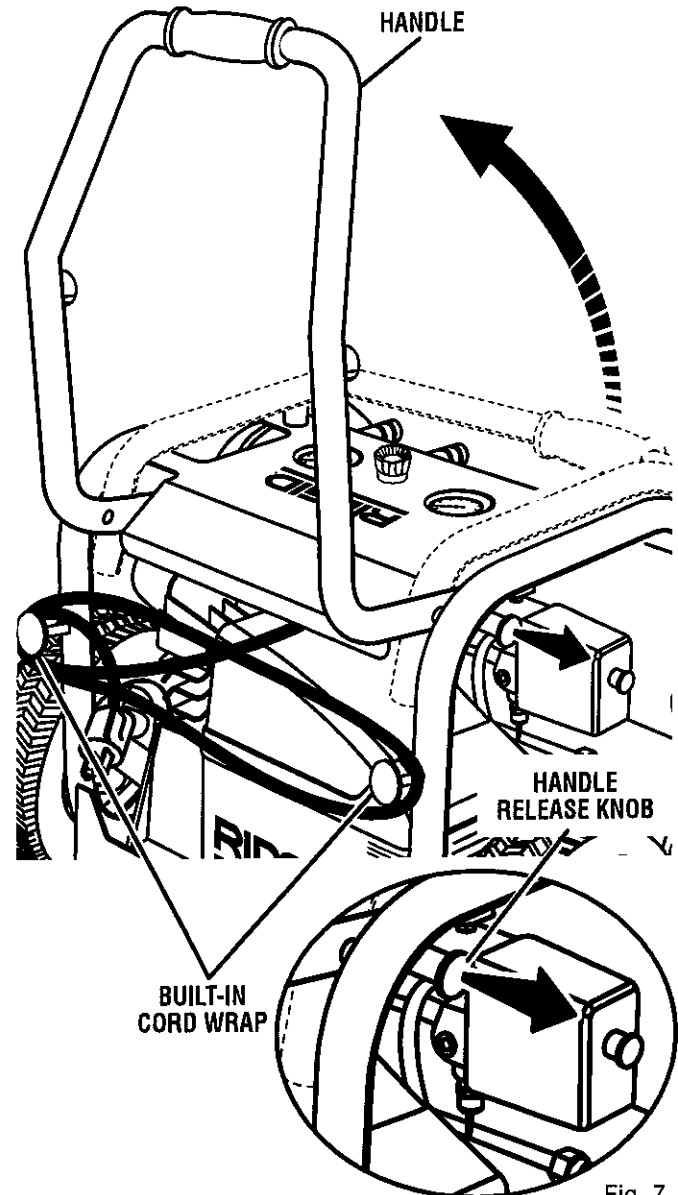


Fig. 7

BUILT-IN CORD WRAP

See Figure 7.

A built-in cord wrap is provided for keeping the cord out of the way when the unit is in storage or when it is being rolled from one location to another.

OPERATION

CHECKING THE OIL

See Figures 8 - 9.

The air compressor is pre-filled with the proper type and quantity of oil. However, it is necessary to check the oil level before each use, and add oil if needed.

NOTE: Always check the oil when the unit is sitting on a level surface.

- Insert the dipstick into the oil fill hole until it stops. Remove the dipstick and check the oil level.
- Make sure the reading is between the MIN and MAX reference levels on the dipstick.

NOTE: Never let the oil drop to a level lower than MIN. Maximum level is reached when the oil reaches the MAX level reference on the dipstick.

- Reinsert the dipstick securely into the oil fill hole.

To add oil:

- Remove the dipstick.
- Using a funnel, carefully pour oil into the oil fill hole. Refill only with synthetic oil **SAE 5W40**.

NOTE: Avoid using too much oil. Ensure that the level of the oil does not exceed the maximum reference level on the dipstick.

- Reinsert the dipstick securely into the oil fill hole.

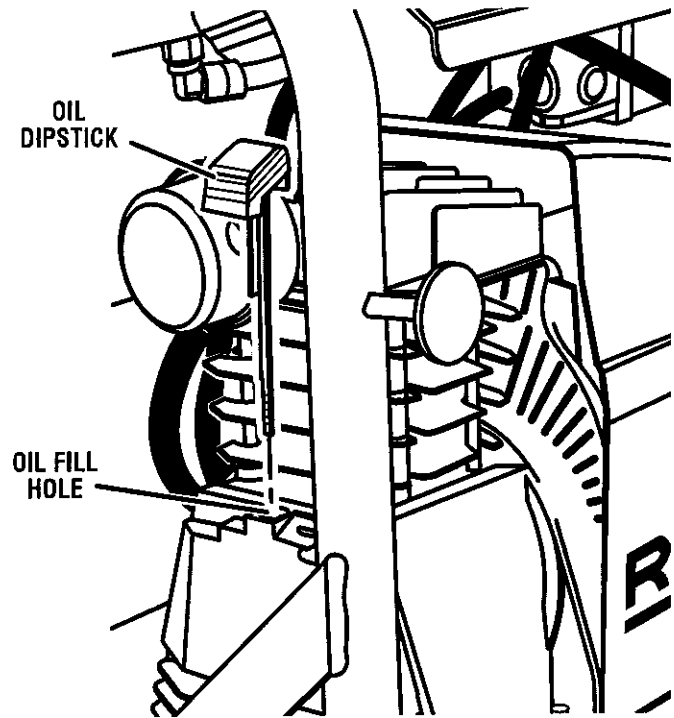


Fig. 8

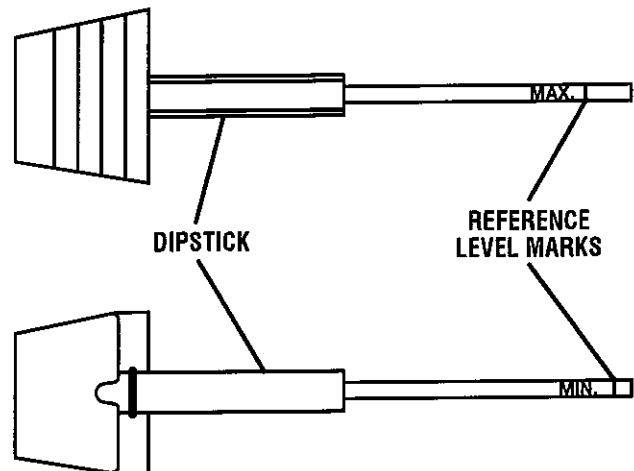


Fig. 9

OPERATION

USING THE AIR COMPRESSOR

See Figures 10 - 11.

- Ensure power switch is in the **OFF (O)** position and air compressor is unplugged.
- If not already installed, attach hose to compressor as previously instructed.
- Attach 1/4 in. NPT male connector fitting to accessory or tool you intend to use.
- Insert the other end of the male connector to the quick coupler on the open end of hose.

⚠ WARNING:

Always ensure the switch is in the **OFF (O)** position and the regulator pressure gauge reads zero before changing air tools or disconnecting the hose from the air outlet. Failure to do so could result in possible serious personal injury.

- Connect the power cord to the power supply.
- Turn the switch **ON (I)**.
- Rotate pressure regulator knob to desired line pressure. Turning the knob clockwise increases air pressure at the outlet; turning counterclockwise reduces air pressure at the outlet.
- Following all safety precautions in this manual and the manufacturer's instructions in the air tool manual, you may now proceed to use your air-powered tool.

⚠ WARNING:

Your tool may require more air consumption than this air compressor is capable of providing. Check the tool manual to avoid damage to the tool or risk of personal injury.

- Control the amount of air flow with the pressure regulator knob. Turning the knob fully counterclockwise will completely stop the flow of air.

NOTE: Always use the minimum amount of pressure necessary for your application. Using a higher pressure than needed will drain air from the tank more rapidly and cause the unit to cycle on more frequently.

- When finished, always drain the tank and unplug the unit. Never leave the unit plugged in and/or running unattended.

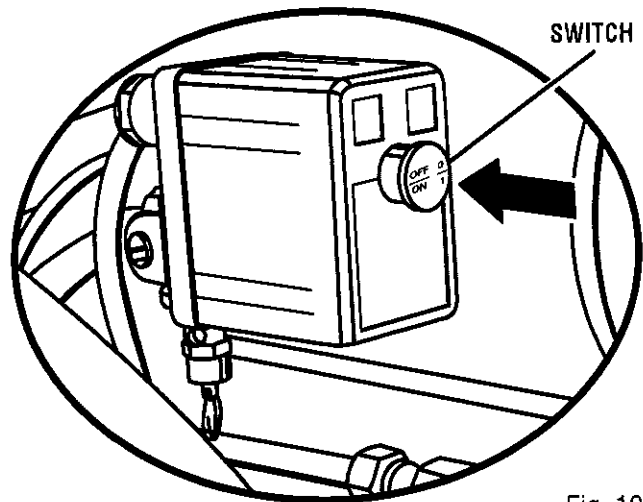


Fig. 10

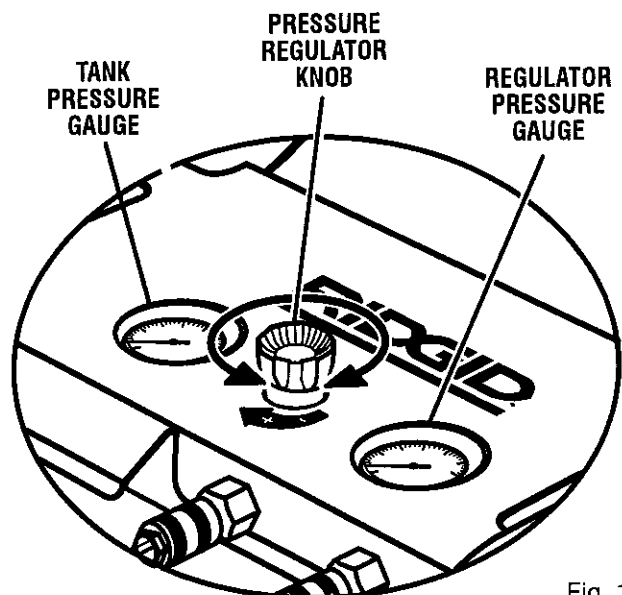


Fig. 11

COLD WEATHER STARTING

- Turn the switch to the **OFF (O)** position.
- Turn the tank drain valves counterclockwise to open.
NOTE: The air compressor has two tanks. Be sure to open both tank drain valves.
- Pull the switch out to the **ON (I)** position and run the compressor for 1 - 2 minutes.
- Turn the switch to the **OFF (O)** position.
- Turn the tank drain valves clockwise to close.
NOTE: The air compressor has two tanks. Be sure to close both tank drain valves.
- Follow normal operating procedures.

OPERATION

DRAINING THE TANKS

See Figure 12.

To help prevent tank corrosion and keep moisture out of the air used, the air tanks of the compressor should be drained daily.

NOTE: The air compressor has two separate tanks: an upper tank and a lower tank. Be sure to open drain valves for both and perform this operation for both tanks.

To drain:

- Rotate drain valves counterclockwise to open.
- Drain moisture from tanks into a suitable container.

NOTE: Condensate is a polluting material and should be disposed of in compliance with local regulations.

- If drain valves are clogged, release all air pressure, remove and clean valves, then reinstall.

⚠ WARNING:

Unplug the air compressor and release all air from the tanks before servicing. Failure to depressurize tanks before attempting to remove valve may cause serious personal injury.

- Rotate drain valves clockwise until tightly closed.

CHECKING THE SAFETY VALVE

See Figure 13.

⚠ DANGER:

Do not attempt to tamper with the safety valve. Anything loosened from this device could fly up and hit you. Failure to heed this warning could result in death or serious personal injury.

The safety valve will automatically release air if the air receiver pressure exceeds the preset maximum. The valve should be checked before each day of use by pulling the ring by hand.

- Turn the air compressor on and allow the tanks to fill. The compressor will shut off when the pressure reaches the preset maximum.
- Turn the air compressor off.
- Pull the ring on the safety valve to release air for three to five seconds.
- Release the ring. Air must immediately stop escaping when the ring is released. Any continued loss of air after releasing the safety valve ring indicates a problem with the safety valve. Discontinue use and seek service before continued use of the air compressor.

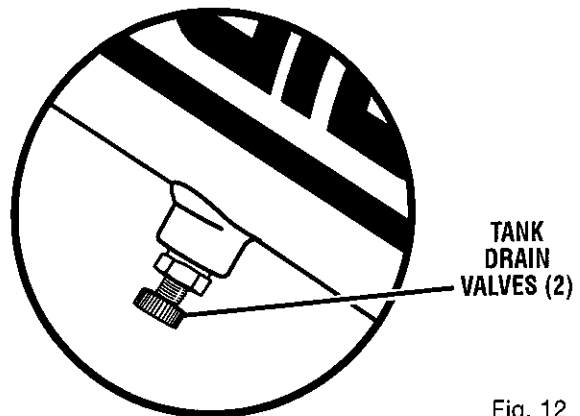


Fig. 12

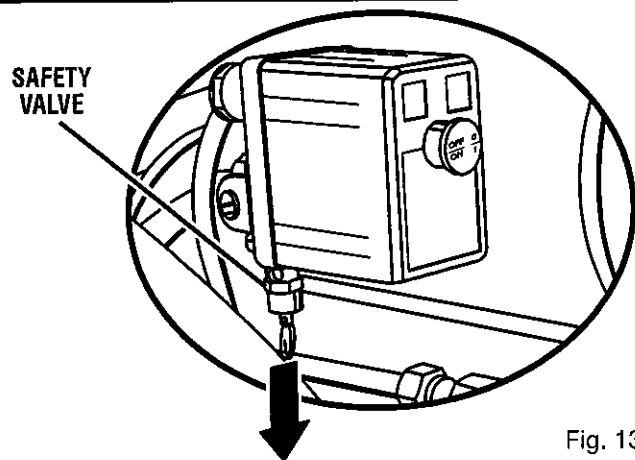


Fig. 13

⚠ WARNING:

If air leaks after the ring has been released, or if the valve is stuck and cannot be actuated by the ring, Do not use the air compressor until the safety valve has been replaced. Use of the air compressor in this condition could result in serious personal injury.

MAINTENANCE

⚠ WARNING:

When servicing use only identical RIDGID replacement parts. Use of any other parts may create a hazard or cause product damage.

⚠ WARNING:

Always wear safety goggles or safety glasses with side shields during power tool operation or when blowing dust. If operation is dusty, also wear a dust mask.

⚠ WARNING:

Always release all pressure, disconnect from power supply, and allow unit to cool to the touch before cleaning or making repairs on the air compressor.

GENERAL MAINTENANCE

Avoid using solvents when cleaning plastic parts. Most plastics are susceptible to damage from various types of commercial solvents and may be damaged by their use. Use clean cloths to remove dirt, dust, oil, grease, etc.

⚠ WARNING:

Do not at any time let brake fluids, gasoline, petroleum-based products, penetrating oils, etc., come in contact with plastic parts. Chemicals can damage, weaken or destroy plastic which may result in serious personal injury.

Electric tools used on fiberglass material, wallboard, spackling compounds, or plaster are subject to accelerated wear and possible premature failure because the fiberglass chips and grindings are highly abrasive to bearings, brushes, commutators, etc. Consequently, we do not recommend using this tool for extended work on these types of materials. However, if you do work with any of these materials, it is extremely important to clean the tool using compressed air.

REPLACING THE AIR FILTER

See Figure 14.

If you notice a reduction in performance of the air compressor, and the air delivery is lower than desired, it may be necessary to replace the air filter. A clogged air filter reduces performance and can cause increased wear.

- Unplug the air compressor. Allow the unit to cool for five minutes if needed.
- To remove the old air filter, turn it counterclockwise.
- Using a clean, dry cloth, wipe away any loose dirt or debris before reinstalling the new filter.
- Insert the new air filter and hand-tighten by turning it clockwise. Do not overtighten.

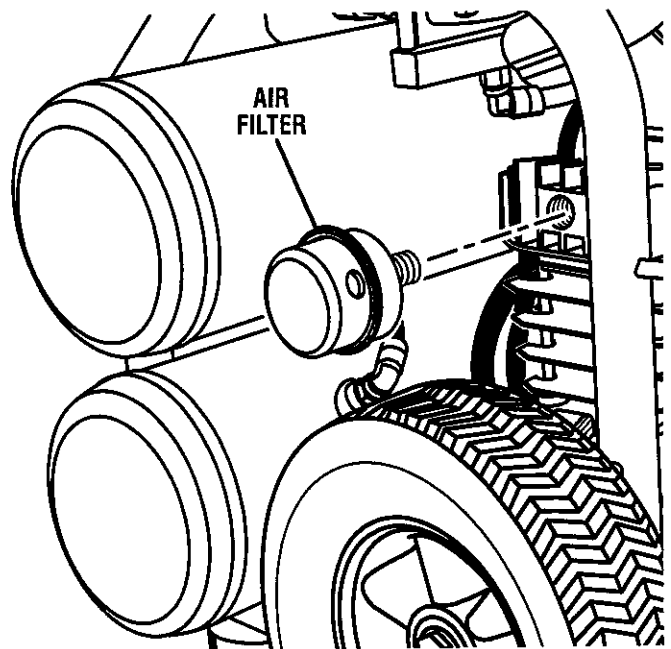


Fig. 14

MAINTENANCE

CHANGING THE OIL

See Figures 15 - 16.

Replace the oil after the first 100 hours of operation and every 300 hours following the first oil change.

NOTE: Though not necessary, you may find it helpful to remove the wheel from the unit to easily access the oil drain.

To remove the wheel for draining the oil:

- Be sure the unit is sitting on a level surface to ensure proper drainage. It is advisable to place a prop, such as a brick or wood block, underneath the frame of the unit to keep it level once the wheel is removed.
- With a wrench, loosen the hex head bolt. Remove the bolt.
- Remove the wheel, spacer, and hex nut.

To drain and replace the oil without removing the wheel:

- Place a suitable container underneath the drain to collect used oil.
- Remove the drain plug with a 3/16 in. hex key.
- When the used oil has drained, reinstall the drain plug and tighten with the wrench.
- Remove the dipstick.
- To refill, use a funnel to pour oil into the fill hole. Refill only with synthetic oil **SAE 5W40**.

NOTE: Avoid refilling with too much oil. Ensure that the level of the oil does not exceed the maximum reference level on the dipstick. The recommended amount of oil for refilling is 6 oz. (170g).

- Reinsert the dipstick securely into the oil fill hole.
- If the wheel was removed, reinstall the wheel, spacer, and hex nut. Tighten the hex nut securely with the wrench. Do not overtighten.

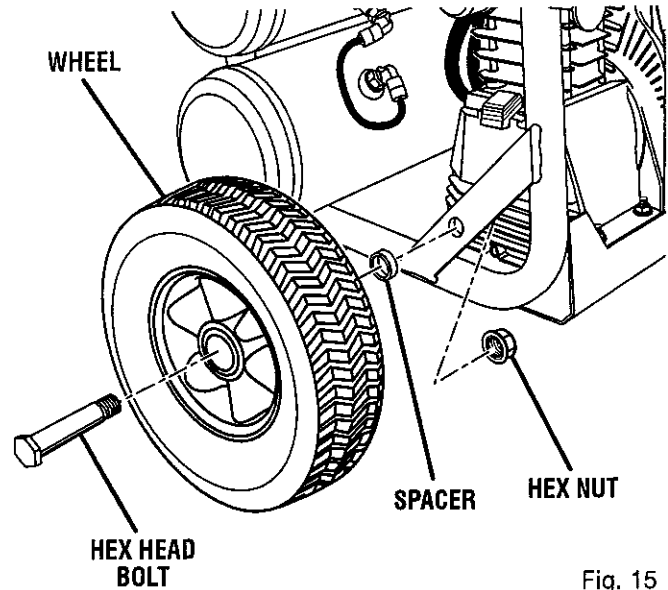


Fig. 15

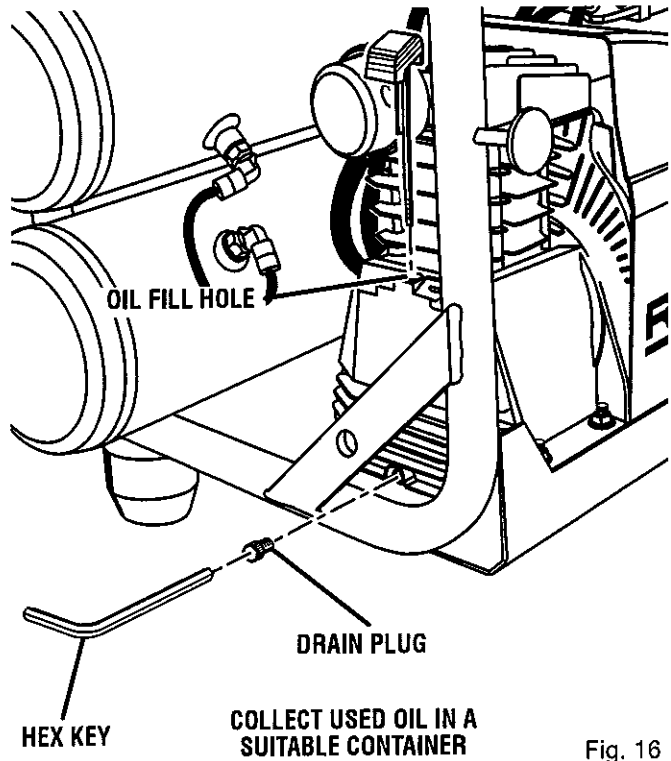


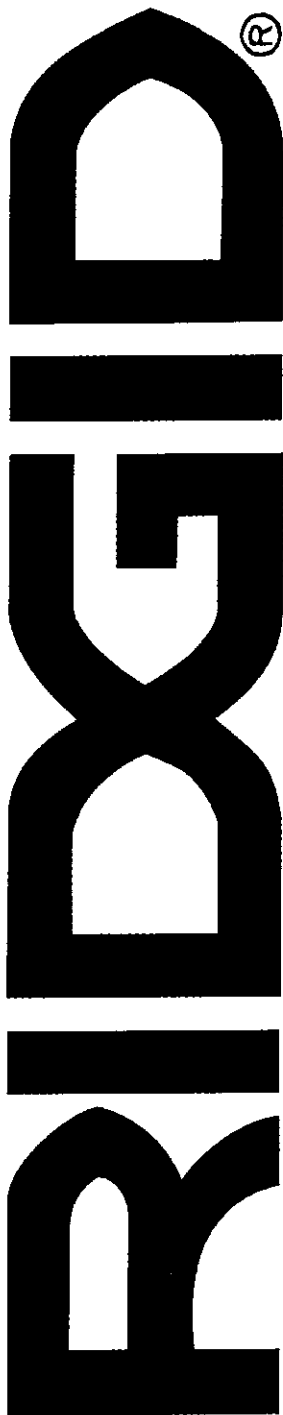
Fig. 16

TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
Compressor will not run	Loss of power or overheating No electrical power Blown shop/house fuse Shop/house breaker open Thermal overload open Pressure switch bad Tank is full of air	Check for proper use of extension cord Check to be sure unit is plugged in Check fuse/breaker Replace shop/house blown fuse Reset shop/house breaker, determining why problem happened Motor will restart when cool Replace pressure switch Compressor will turn on when tank pressure drops to cut-in pressure
Motor hums but cannot run or runs slowly	Low voltage Wrong gauge wire or length of extension cord Shorted or open motor winding Defective check valve or unloader	Check with voltmeter Check for proper gauge wire and cord length Take compressor to service center Take compressor to service center
Fuses blow/circuit breaker trips repeatedly	Incorrect size fuse, circuit overload Wrong gauge wire or length of extension cord Defective check valve or under loader	Check for proper fuse, use time-delay fuse, disconnect other electrical appliances from circuit or operate compressor on its own branch circuit Check for proper gauge wire and cord length Take compressor to service center
Thermal overload protector cuts out repeatedly	Low voltage Lack of proper ventilation/room temperature too high Wrong gauge wire or length of extension cord	Check with voltmeter Move compressor to well-ventilated area Check for proper gauge wire and cord length

TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
Air receiver pressure drops when compressor shuts off	Loose connections (fittings, tubing, etc.) Loose drain valve Check valve leaking	Check all connections with soap and water solution and tighten Tighten drain valve Take compressor to service center ⚠ DANGER: Do not disassemble check valve, tank drain valves or safety relief valve with air in tank – bleed tank.
Excessive moisture in discharge air	Excessive water in air tank High humidity	Drain tank Move to area of less humidity; use air line filter
Compressor runs continuously	Defective pressure switch Excessive air usage	Take compressor to service center Decrease air usage; compressor not large enough for tool's requirement
Compressor vibrates	Loose mounting bolts	Tighten mounting bolts
Air output lower than normal	Broken inlet valves Connections leaking	Take compressor to service center Tighten connections



RIGID® AIR COMPRESSOR LIMITED THREE-YEAR WARRANTY

This product is manufactured by Balma (Shanghai) Air Compressors Co., Ltd, based in Shanghai, China or its North American Operations, Abac American IMC Inc., Rock Hill, SC, or by other Abac Group Operations worldwide. The trademark is licensed from Ridgid, Inc. All warranty communications should be directed to RIDGID air compressor technical service at (toll free) 1-800-4-RIDGID.

WHAT IS COVERED UNDER THE LIMITED THREE YEAR WARRANTY

This warranty covers all defects in workmanship or materials in this RIDGID air compressor for the three-year period from the date of purchase. This warranty is specific to this air compressor. Warranties for other RIDGID products may vary.

HOW TO OBTAIN SERVICE

To obtain service for this RIDGID air compressor you must return it, freight prepaid, to a service center authorized to repair RIDGID air compressors. You may obtain the location of the service center nearest you by calling (toll free) 1-800-4-RIDGID or by logging on to the RIDGID website at www.ridgid.com. When requesting warranty service, you must present the proof of purchase documentation, which includes a date of purchase. The authorized service center will repair any faulty workmanship, and either repair or replace any defective part, at Abac's option at no charge to you.

WHAT IS NOT COVERED

This warranty applies only to the original purchaser at retail and may not be transferred. This warranty does not cover normal wear and tear or any malfunction, failure or defect resulting from misuse, abuse, neglect, alteration, modification or repair by other than a service center authorized to repair RIDGID branded air compressors. Expendable materials, such as oil, filters, etc. are not covered by this warranty. Gasoline engines and components are expressly excluded from coverage and you must comply with the warranty given by the engine manufacturer, which is supplied with the product. **ABAC MAKES NO WARRANTIES, REPRESENTATIONS OR PROMISES AS TO THE QUALITY OR PERFORMANCE OF ITS AIR COMPRESSORS OTHER THAN THOSE SPECIFICALLY STATED IN THIS WARRANTY. RIDGID, INC. MAKES NO WARRANTIES OR REPRESENTATIONS, EXPRESS OR IMPLIED, INCLUDING AS NOTED BELOW.**

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