Rabin

MODEL: XA4230-10L

10L

PORTABLE AIR COMPRESSOR

Operator's Manual

SAVE THIS MANUAL
You will need this manual for safety instructions, operating procedures and warranty. Put it and the original sales receipt in a safe dry place for future reference.

IMPORTANT SAFETY INSTRUCTIONS

WARNING! When using electric tools, machines or equipment, basic safety precautions should be followed to reduce the risk of fire, electric shock, and personal injury.

READ ALL INSTRUCTIONS BEFORE USING THIS TOOL

1. **KEEP WORK AREA CLEAN.** Cluttered areas invite injuries.
2. **CONSIDER WORK AREA ENVIRONMENT.** Don't use power tools in damp, wet or flooded areas. Don't expose power tools to rain. Keep the work area well lit. Don't use tools in the presence of flammable gases or liquids.
3. **KEEP CHILDREN AND BYSTANDERS AWAY.** All children should be kept away from the work area. Don't let them handle machines, tools or extension cords. Don't let children or visitors touch the tool or the extension cord.
4. **GROUNDED TOOLS** must be plugged into an outlet that itself is properly installed and grounded. Grounding provides a low-resistance path to carry electricity to the ground and away from the operator, should the tool malfunction electrically. Do not remove the grounding prong from the plug for convenience. If the plug will not fit the outlet, have the proper outlet grounded according to code, check with a qualified electrician.
5. **OBSERVE PROPER PRECAUTIONS REGARDING DOUBLE INSULATION.** This tool is double insulated, it is equipped with a polarized plug. One blade is wider than the other, so it will fit into a polarized outlet only one way. If the plug does not fit fully into the outlet, reverse the plug. If it still doesn't fit, do not alter the plug, have a qualified electrician install a polarized outlet.
6. **AVOID ELECTRIC SHOCKS.** Prevent body contact with grounded surfaces: pipes, radiators, ranges, and refrigerator enclosures. When your body is grounded the risk of electric shock increases. When working wherever "live" electrical wires may be exposed, try to ascertain whether there is a danger of shock. Even so, DO NOT TOUCH ANY METAL PARTS OF THE TOOL. Use only the insulated surfaces on the plastic grip to prevent electric shock if you contact a live wire.
7. **HANDLE THE CORD CAREFULLY.** Never carry your tool by the cord or pull on the cord to unplug it. Protect the cord from extreme sources of damage: heat, oil & solvents, sharp edges, or moving parts. Replace damaged cords immediately.
8. **WHEN WORKING OUTDOORS, USE AN OUTDOOR-RATED EXTENSION CORD.** An extension cord rated for outdoor use must be marked "W-A" or "W".
9. **DO NOT EXPOSE ELECTRICAL POWER TOOLS TO MOISTURE.** Rain or wet conditions can cause water to enter the tool and lead to electric shock.
10. **ENSURE THE EXTENSION CORD YOU USE IS OF SUFFICIENT GAUGE FOR ITS LENGTH.**

Recommended Minimum Wire Gauge for Extension Cords

Amps Rated Next Horsepower	25' (7.62 m)	50' (15.24 m)	100' (30.48 m)	150' (45.72 m)	200' (60.96 m)
	Wire Gauge	Wire Gauge	Wire Gauge	Wire Gauge	Wire Gauge
0 - 2 amps	18 ga.	18 ga.	18 ga.	16 ga.	14 ga.
2.1 - 3 amps	18 ga.	18 ga.	16 ga.	14 ga.	Do Not Use
3.1 - 5 amps	18 ga.	16 ga.	14 ga.	12 ga.	Do Not Use
5.1 - 10 amps	16 ga.	14 ga.	12 ga.	10 ga.	Do Not Use
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12. **DON'T FORCE THE TOOL.** It will do the job better and more safely at the rate for which it was intended.
13. **USE THE RIGHT TOOL.** Don't force a small tool or attachment to do the work of a larger industrial tool. Don't use a tool for a purpose for which it was not intended.
14. **DRESS PROPERLY.** Don't wear loose clothing or jewelry; they can be caught in moving parts. Protective, nonskid/steady, nonconductive gloves and non-skid footwear are recommended when working. Wear protective hair covering to contain long hair and keep it from hair.
15. **USE EYE PROTECTION.** Also use face or dust mask if the work you're doing produces metal filings, dust or wood chips. Goggles are acceptable in other situations. Wear a clean dust mask if the work involves creating a lot of fine or coarse dust.
16. **SECURE WORK.** Use clamps or a vise to hold the work. It's safer than using your hand, it frees both hands to operate the tool.
17. **DON'T OVERREACH.** Keep proper footing and balance at all times. Do not reach over or across machines that are running.
18. **MAINTAIN TOOLS WITH CARE.** Keep tools sharp and clean for better and safer performance. Follow instructions for lubricating and safe performance. Follow instructions for lubricating and changing accessories. Keep handles dry, clean and free from oil and grease.
19. **AVOID UNINTENTIONAL STARTING.** Be sure the switch is in the OFF position before plugging in.
20. **ALWAYS CHECK AND MAKE SURE YOU REMOVE ANY ADJUSTING KEYS OR WRENCHES** before turning the tool on. Left attached, these parts can fly off a rotating part and result in personal injury.
21. **DO NOT USE THE TOOL IF IT CANNOT BE SWITCHED ON OR OFF.** Any tool that cannot be controlled is dangerous.
22. **DISCONNECT THE PLUG FROM POWER BEFORE MAKING ANY ADJUSTMENTS.** Changing attachments or accessories can be dangerous if the tool could accidentally start.
23. **STAY ALERT!** Watch what you are doing & use common sense. Don't operate any tool when you are tired.
24. **CHECK FOR DAMAGED PARTS.** Before using this tool, any part that is damaged should be carefully checked to determine that it will operate properly & perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mountings, and other conditions that may affect its operation. Inspect covers and tighten any cover that are loose. Any part that is damaged should be properly repaired or replaced by an authorized service center unless otherwise indicated elsewhere in this manual. Have defective switches replaced by an authorized service center. Do not use the tool if switch does not turn it on and off properly.
25. **REPLACEMENT PARTS.** When servicing, use only identical replacement parts.
26. **SERVICE AND REPAIRS** should be made by qualified repair technicians at an authorized repair centre. Improperly repaired tools could cause serious shock or injury.

SAFETY PRECAUTIONS FOR COMPRESSORS

1. **COMPRESSED AIR CAUTIONS.** *Compressed air from this unit may contain carbon monoxide. The air produced is neither suitable for breathing nor food processing without filtering and testing to all applicable legal standards.*
2. **AIR GAUGE.** *Use this compressor for compressing air only. Do not compress other gases.*

SAFETY PRECAUTIONS FOR COMPRESSORS

1. **BREATHING PROTECTION.** *Always use a respirator when spraying paint or chemicals.*
2. **MAINTAIN TOOLS WITH CARE.** *Keep tools clean for better and safer performance. Follow instructions for lubricating and changing accessories. Keep tools dry, clean and free from oil and grease.*
3. **NEVER USE THIS EQUIPMENT** *if it is leaking air, has missing or damaged parts, guards, or blinders, or requires repair. Make sure all screws and caps are securely tightened.*
4. **DO NOT USE THE AIR HOSE** *to move the compressor. Release the pressure in the storage tank before moving.*
5. **DO NOT ATTEMPT ANY MAINTENANCE OR ADJUSTMENT** *with the compressor in operation, the power connected, or an under pressure in the system.*
6. **DON'T OVERREACH.** *Keep proper footing and balance at all times. Do not reach over or across machines that are running.*
7. **CHECK FOR DAMAGED PARTS.** *Make frequent inspections for the correct function of components and safety mechanism.*
8. **REPLACEMENT PARTS.** *When servicing, use only identical replacement parts and fasteners recommended by us.*
9. **EMPLOYERS.** *must enforce compliance with the safety warnings and all other instructions in this manual. Keep it available for use by everyone assigned to use this equipment.*

COMPRESSOR COMPONENTS SAFETY PRECAUTIONS

☐ **ELECTRIC SHOCK.** *This compressor is supplied with a factory pre-set for optimum performance. Do not bypass or remove this switch. Serious damage to equipment or personnel injury could result from high or low pressure.*

☐ **AIR TANKS.** *Over-pressurizing the air receivers, piping or tanks could cause it to explode or burst. To protect from over-pressurizing, the compressor is equipped with a factory preset safety valve. Do not remove, make adjustments or re-substitutions for this valve. Perform a burn of the valve from time to time; pull the ring on the valve to make sure that it operates. If the valve is stuck, replace it. Do not paint the safety valve. Never weld to, drill into, or change the air receivers in any way.*

☐ **TAMPERING.** *If any of the components above are found to have been changed or tampered with, the warranty will be void until. When servicing, we recommend using only identical replacement parts and any replacement parts used must bear the same specification as the original equipment.*

IMPORTANT SAFETY INSTRUCTIONS

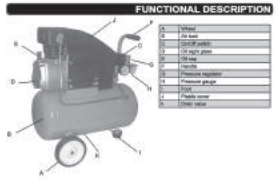
WARNING! *The warnings, cautions, and instructions detailed in this manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that COMMON SENSE AND CAUTION ARE FACTORS that cannot be built into this product, but MUST BE SUPPLIED BY THE OPERATOR.*

SPECIFICATIONS

Your Air Compressor is:

- **OIL-FREE.**
- Oil Lubricated for durability and long life (requires non-detergent SAE 20 base oil)
- Extremely quiet operation
- Equipped with one regulator and dual pressure gauges - allows setting exact line pressure
- One quick-connect air fitting
- Fitted with a 1/4" NPT Male Plug Fitting - allows setting exact line pressure
- Oil breather cap (easy replace attachment to compressor)
- Air filter (may require attachment to compressor)
- Maximum pressure rated

FUNCTIONAL DESCRIPTION



A	Wheel
B	Air tank
C	On/Off switch
D	Oil sight glass
E	Oil cap
F	Handle
G	Pressure regulator
H	Pressure gauge
I	Foot
J	Plastic cover
K	Drain valve

ASSEMBLY

- Remove air filter from plastic bag and screw it into the thread hole. Be sure to remove clean air filter before and after use.
- Remove the oil filler threaded plug and replace it with the oil filler breather cap.

OPERATING INSTRUCTIONS

Your new air compressor can be used for operating paint, wood filler, and insecticide sprayers, air tools, grease & caulking guns, sandblasters, inflation, etc. A tool with a higher air demand than this compressor can produce may either not function, or run for a short while. It may also cause the compressor to run without stopping for long periods of time, trying to maintain pressure to the tank. This will cause the motor to overheat and may damage it. Always use tools rated lower than the rate line requirements of your tools can be met by the compressor.

To compress air, the piston in the pump moves up and down in the cylinder. On the down stroke, air is drawn in through the inlet valve. Since the discharge valve remains closed, as the piston goes up, the air in the cylinder is compressed. When the pressure is sufficient, the discharge valve will open and air is forced out into the air receiver. A check valve prevents it from going back into the pump. Pumping at is not immediately available. The pump continues to build air pressure until it reaches the required level on the regulator.

INSTALLATION AND LOCATION

Locate the compressor in a clean, dry and well-ventilated area, on a firm level surface. It should be located 12" to 18" (30 to 45 cm) from a wall or any obstruction that may restrict the ventilation. Do not fold, kink or obstruct the deadstem valves that allow for proper cooling. Keep them and other parts free of dust or dirt that could interfere with cooling. A clean compressor runs cooler and provides longer service. Do not place anything on top of the compressor.

WARNING! Do not use lead-tin solder to join pipes and fittings. It can melt at the discontinuities of the compressor's air discharge and cause the piping to break.

EXTENSION CORDS

If you plan to use an extension cord when operating your air compressor, be sure that it is:

- Maximum length: not to exceed 50 ft. (15 m.)
- Minimum wire size: 14 gauge.
- If the extension cord is too long or the wire size is too small, the air compressor will not start.

COMPRESSOR LUBRICATION

1. CHECK THE OIL quantity and quality before operating the compressor. Do not add or change oil while the compressor is in operation. Use only oil with the correct specifications.
2. Be sure the air compressor is on a level surface.
3. Remove the oil filler breather cap and oil filler transport plug on the top of the crankcase, revealing the oil fill hole.
4. Fill the oil reservoir with SAE-20 heavy-duty, non-detergent compressed oil. For operation in extremely cold conditions, use lighter SAE-10 weight.
5. The reservoir capacity is approximately 550 ml (1.0 fl. oz.). There may be some oil left over from the manufacturing process already in the reservoir. Be careful not to over-fill.

OPERATING INSTRUCTIONS

Fig. 6

6. Check the oil level sight-glass (D, fig.1 & 2). The oil should show level with the red dot in the centre of the viewing window.
7. Find the oil fill breather cap (F, fig.1 & 2).
8. Gently screw the oil breather into the oil fill hole. Do not cross-thread or over-tighten.

INITIAL BREAK-IN

Fig. 7

1. Open (turn the brass knurled knob out, counter-clockwise) the air tank pressure release pressure. Fig. 8) to permit air to escape, so no air pressure builds up in the air tank.

Fig. 8

2. Plug power supply cord into correct power source.
3. Pull up on the Auto-On/Off switch to start the compressor.
4. Run the compressor in the no-load condition for 15 to 30 minutes to lubricate the bushings and pistons.
5. Close (turn the knurled knob in, clockwise) the air tank pressure release valve.
6. Pressure will build in the tank and the Pressure switch will stop the pump when it reaches the pressure set on the regulator. Your compressor is now ready for use.

NOTE: During the break-in period, there may be a slight smell as the electrical motor brushes seat themselves. This may last for about 5 minutes and is normal.

CAUTION! If the compressor does not run properly after 10 minutes of the break-in or if you notice any abnormalities, please contact the service centre.

OPERATING INSTRUCTIONS

BEFORE OPERATING

- Check that all nuts and bolts are all snug.
- Check the quantity and quality of oil (see compressor lubrication, above).

CAUTION! Before operating this unit, check it thoroughly for damage or corrosion. Ensure that tank, compressor, motor and pump are all good condition and caps are tight.

STARTING THE COMPRESSOR

1. Make sure wiring fuse and power supply are correctly installed.
2. Check that the pressure switch is in the OFF position.
3. 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.
4. 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. Pressure regulator must be adjusted to never exceed the maximum pressure rating of the tool.
5. 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.
6. To shut down the compressor and avoid air leakage, see 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 the moisture release petcock (fig. J) underneath the tank and release the air in the tank completely.
3. The pressure gauge should now fall back to 0 PSI.
4. Release all the air from the attached air tool, and then disconnect hose from the quick coupler.

MAINTENANCE

WARNING! Before any maintenance or adjustment to your air compressor, always take the following safety precautions:

1. Disconnect electrical power.
2. Open the moisture release petcock to drain all tank of pressure.

DAILY MAINTENANCE

Before each use:
☐ Check the oil level
☐ Be sure all nuts and bolts are tight
☐ Check for any unusual noise or vibration
☐ After use, open the air tank petcock to drain condensation from tank

MAINTENANCE

WEEKLY MAINTENANCE

☐ Clean air filter by opening air filter cap (C fig. 1). Remove the filter element and clean thoroughly with soap and water. Rinse thoroughly and allow to completely dry before reinstalling.
☐ Clean crankcase breather as oil drains applied.

MONTHLY MAINTENANCE

☐ Inspect air system for leaks by applying soapy water to all joints.
☐ Tighten those joints Privileage is observed.
☐ Check that all nuts and bolts are kept tight.

AFTER 250 HOURS OR SIX (6) MONTHS
(whichever comes first)

CHANGE COMPRESSOR OIL

WARNING! Before any removing the oil drain plug put lower sight glass or the oil breather cap from your air compressor, always take the following safety precautions:

- Disconnect electrical power.
- Open the moisture release petcock to drain all tank of pressure.

1. Replace the oil drain sight glass (D, fig.1 & 2). Use a 24 mm wrench. Allow old oil to drain completely.
2. Replace the oil drain plug and gasket (we recommend also using a sealing compound or tape to avoid leakages). Do not over-tighten.
3. Refill with the reservoir with SAE-30 (API CI/CE heavy duty) non-detergent compressed oil or for extreme winter conditions, use SAE-10 weight.
4. The reservoir capacity is approximately 350 ml (11.8 fl. oz.). Fill to the red dot in the oil level sight glass. Do not over-fill.

IMPORTANT! Replace oil every often if compressor is used near-point spraying operations or in dusty environments.

CAUTION!

☐ *All air line components (including hoses, pipe, connection, filters, & regulators, etc.) must be rated for a minimum working pressure of 150 psi or 1.5MPa at the maximum system pressure, whichever is greater.*

☐ *Disconnect any hose from the air supply before performing maintenance, clearing a jammed fastener, leaving the work area, moving the tool to another location, or handing it to another person.*

☐ *When cleaning air filter, or any parts in direct contact with the air production, do not use any flammable or toxic cleaner or solvent*

☐ *During the break-in period, auto-seal (belt) tank is tendency to loosen up. After two weeks, tighten all nuts and bolts including head bolts.*

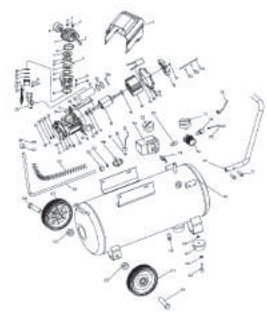
MAINTENANCE

- Keep the vents and cooling holes clear of dust and debris. This will help prevent overheating and will lengthen the life of your tool.
- Inspect the cord regularly and have it replaced by an authorized repair facility if it is damaged.
- Check the tools regularly for debris, sawdust and other damage. Do not use if any part of the unit/tool system is damaged.
- Unauthorized repair centre should do any repairs, modification, or maintenance that involves disassembling the compressor.
- Please call toll-free 1(866) 357-2715 with any questions you have or service advice you may need.

TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSE	SOLUTION
Compressor runs continuously	Petcock is open	Close petcock
	Prolonged or excessive use of air	Decrease air demand
	Compressor is not large enough for job	Check the air requirement of air tool.
	Restricted check valve	Remove and clean, or replace
	Leak in oil hose or connector	Check and replace if necessary
	Tank leaks	Replace tank immediately! Do not attempt to repair!
Blown seals	Ruptured	Replace
Compressor starts and stops excessively when in use	Petcock is partially open	Close petcock
	Fittings leak	Check fittings with soapy water. Tighten or replace if leaks. Do not use tape.
Compressor will not start	Fuse or circuit breaker tripped	Check for cause & replace or reset
	Loose electrical connections	Check wiring connections
	Extension cord not suited	Max. 16 ga (SCA) cord, 15 ga
	Low voltage	Consult electrician
	Overheated motor	Use rated boiler or wait for auto reset
	Check valve is stuck open	Remove and clean or replace
	Pressure bleeder valve on pressure switch has not checked head properly	Move switch to Off and then restart
	Worn spring on internal motor parts	Consult service centre
Circuit breaker trips (or fuse blows) too often	Low voltage	Consult electrician
	Excessive wire length	Try to run compressor without extension cord
	Restricted air passages	Contact service centre
	tank pressure to pump head	Replace check valve
		Replace pressure relief bleeder valve
Low pressure	Air leak in safety relief valve	Check valve manually, pull ring outward
	Restricted air filter	Clean or replace air filter
	Defective check valve	Replace check valve
Safety pressure relief valve opens	Defective pressure switch or improper adjustment	Check for proper adjustment and if problem persists, replace pressure switch
Oil discharge in air	Improper oil viscosity	Replace with SAE-20 non-detergent compressor oil
	Too much oil in crankcase	Drain crankcase and fill to correct level
Compressor overheated	Air pressure regulated too high	Reduce regulator setting
	Restricted air filter	Clean out, replace air filter
	Poor ventilation	Relocate compressor
	Dirty cooling surface	Clean cooling cooling areas

SCHEMATIC DRAWING



PARTS LIST

Please refer to the Schematic Drawing on page 12.

Part	Description	Qty	Part	Description	Qty
1	Cover	1	31	Screw M5 x 8	10
2	Shroud	1	32	Wire set (Inductor/Protector)	1
3	Shaft - Motor	1	33	Oil Seal	1
4	Screw Phillips M6	4	34	Bearing	1
5	Screw M8 x 30	4	35	Bearing	1
6	Air Filter	1	36	Washer	1
7	Cylinder Head	1	37	Rotor	1
8	Valve Gasket	1	38	Automatic Thermal Protector	1
9	Valve Plate	1	39	Fan Cover	1
10	Valve Gasket	1	40	Fan	1
11	Valve	1	41	Circlip	1
12	Cylinder Body Gasket	1	42	Flat Washer 5	4
13	Cylinder	1	43	Spring Washer 8	4
14	Stud M8 x 30	4	44	Nut M8	4
15	Connecting Rod Set	1	45	Connector	1
16	Piston Gasket	1	46	M10 Pressure Gauge	1
17	Pin	1	47	Pressure Switch	1
18	Compression Ring	1	48	Adjuster Valve	1
19	Oil Ring	1	49	Pipe	1
20	Piston Assembly	1	50	Elbow	1
21	Piston	1	51	Check Valve	1
22	Connecting Rod	1	52	Fitting	1
23	Screw M8 x 65	4	53	Tee	1
24	Hex Nut M8	4	54	Flanged Tube	1
25	Crankshaft	1	55	Coupling	1
26	Oil Plug	1	56	Quick Plug	1
27	Oil Tube	1	57	Stud M12 x 65	4
28	Carburetor	1	58	Hex Nut M12	4
29	Screw M6 x 20	1	59	Knob - Valve	1
30	Crankcase Gasket	1	60	Cord Plug	1
31	Oil Plug	1	61	Washer	4
32	Screw M6 x 16	1	62	Screw M6 x 30	1
33	Oil Sight Glass	1	63	Clip	1
34	Screw M6 x 16	1	64	Stud M6 x 16	6
35	Handle	1	65	Handle	1
36	Screw Plug M8 x 16	1	66	Rubber Spring	2
37	Oil Cap	1	67	Pressure Regulator	1
38	Oil Plug	1	68	Elbow Cover	1
39	Crankcase Cover Gasket	1	69	Quick Coupler	1
40	Plastic Crankcase	1	70	Gasket Protector Gasket	1
41	Washer M8	10	71	Plug	1

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MODEL: FL-24L/50L

24L/50L

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3. **KEEP CHILDREN AND BYSTANDERS AWAY.** All children should be kept away from the work area. Don't let them handle machines, tools or extension cords. Store idle tools out of reach of children and other untrained persons.
4. **GROUNDED TOOLS** must be plugged into an outlet that itself is properly installed and grounded. Grounding provides a low-resistance path to carry electricity to the ground and away from the operator, should the tool malfunction electrically. Do not remove the grounding prong from the plug for any reason. If in doubt, have the outlet checked by a qualified electrician. If grounded according to code, check with a qualified electrician before installing a polarized outlet.
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22. **DISCONNECT THE PLUG FROM POWER BEFORE MAKING ANY ADJUSTMENTS.** Changing attachments or accessories can be dangerous if the tool could accidentally start.
23. **STAY ALERT!** Watch what you are doing & use common sense. Don't operate any tool when you are tired.
24. **CHECK FOR DAMAGED PARTS.** Before using this tool, any part that is damaged should be carefully checked to determine that it will operate properly & perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mountings, and other conditions that may affect its operation. Inspect screws and tighten any ones that are loose. Any part that is damaged should be properly repaired or replaced by an authorized service center unless otherwise indicated elsewhere in this manual. Have defective switches replaced by an authorized service center. Do not use the tool if switch does not turn it on and off properly.
25. **REPLACEMENT PARTS.** When servicing, use only identical replacement parts.
26. **SERVICE AND REPAIRS** should be made by qualified repair technicians at an authorized repair center. Improperly repaired tools could cause serious shock or injury.

SAFETY PRECAUTIONS FOR COMPRESSORS

1. **COMPRESSED AIR CAUTIONS.** *Compressed air from this unit must contain carbon monoxide. The air produced is neither suitable for breathing nor food processing without filtering and testing to all applicable legal standards.*
2. **AIR GAUGE.** *Use this compressor for compressing air only. Do not compress other gases.*

SAFETY PRECAUTIONS FOR COMPRESSORS

3. **BREATHING PROTECTION.** *Always use a respirator when spraying paint or chemicals.*
4. **MAINTAIN TOOLS WITH CARE.** *Keep tools clean for better and safer performance. Follow instructions for lubricating and changing accessories. Keep dry, clean and free from oil and grease.*
5. **NEVER USE THIS EQUIPMENT** *if it is leaking air, has missing or damaged parts, guards, or blankets, or requires repair. Make sure all screws and caps are securely tightened.*
6. **DO NOT USE THE AIR HOSE** *to move the compressor. Release the pressure in the storage tank before moving.*
7. **DO NOT ATTEMPT ANY MAINTENANCE OR ADJUSTMENT** *with the compressor in operation, the power connected, or an under pressure in the system.*
8. **SECURE WORK.** *Use clamps or a vise to hold the work. It's safer than using your hand and frees both hands to operate the tool.*
9. **DON'T OVERREACH.** *Keep proper footing and balance at all times. Do not reach over or across machines that are running.*
10. **MAINTAIN TOOLS WITH CARE.** *Keep tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories. Keep handles dry, clean and free from oil and grease.*
11. **AVOID UNINTENTIONAL STARTING.** *Be sure the switch is in the OFF position before plugging in.*
12. **ALWAYS CHECK AND MAKE SURE YOU REMOVE ANY ADJUSTING KEYS OR WRENCHES** *before turning the tool on. Left attached, these parts can fly off a rotating part and result in personal injury.*
13. **DO NOT USE THE TOOL IF IT CANNOT BE SWITCHED ON OR OFF.** *Any tool that cannot be controlled is dangerous.*
14. **DISCONNECT THE PLUG FROM POWER** *BEFORE MAKING ANY ADJUSTMENTS. Changing attachments or accessories can be dangerous if the tool could accidentally start.*
15. **STAY ALERT!** *Watch what you are doing & use common sense. Don't operate any tool when you are tired.*
16. **CHECK FOR DAMAGED PARTS.** *Before using this tool, any part that is damaged should be carefully checked to determine that it will operate properly & perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mountings, and other conditions that may affect its operation. Inspect screws and tighten any ones that are loose. Any part that is damaged should be properly repaired or replaced by an authorized service center unless otherwise indicated elsewhere in this manual. Have defective switches replaced by an authorized service center. Do not use the tool if switch does not turn it on and off properly.*
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COMPRESSOR COMPONENTS SAFETY PRECAUTIONS

☐ **TANK SAFETY VALVE.** *This component is designed to limit maximum P.S.I. malfunction in the compressor does occurs. It is factory pre-set at a limit specific to your particular model and adjustment. Do not tamper with it. Tank will automatically vent your warranty.*

☐ **PRESSURE SWITCH.** *The air pressure switch is factory pre-set for optimum performance. Do not bypass or remove this switch. Serious damage to equipment or personal injury could result from high or all pressure.*

☐ **MOTOR AND COMPRESSOR PUMP.** *Air compressors get hot during operation. Do not touch the motor, discharge tubing, or compressor while it is running. The compressor may heat itself on automatically while the power is connected.*

☐ **AIR TANKS.** *Over-pressurizing the air receivers, piping or tanks could cause it to explode or burst. To protect from over-pressurizing, the compressor is equipped with a factory preset safety valve. Do not remove, make adjustments or re-substitutions for this valve. Perform a burn of this valve from time to time: pull the ring on the valve to make sure that it releases air. If it does not release air when you pull the ring, replace it. Never weld to, drill into, or change this air receivers in any way.*

☐ **TAMPERING.** *If any of the components above are found to have been changed or tampered with, the warranty will be made void. When servicing, we recommend using only identical replacement parts and any replacement parts used must bear same specification as the original equipment.*

IMPORTANT SAFETY INSTRUCTIONS

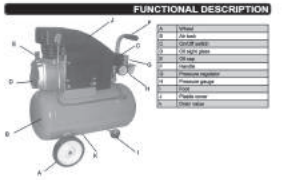
WARNING! *The warnings, cautions, and instructions detailed in this manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that COMMON SENSE AND CAUTION ARE FACTORS that cannot be built into this product, but MUST BE SUPPLIED BY THE OPERATOR.*

SPECIFICATIONS

Your Air Compressor is:

- 2 HP / 50L/6L
- Oil lubricated for durability and long life (requires non-detergent SAE 20 base oil)
- Extremely quiet operation
- Equipped with one regulator and dual pressure gauges - allows setting exact line pressure
- One quick-connect air fitting
- 1/4" Universal Tire Valve - for tire gauge - allows setting exact tire pressure
- 1/2 breather cap (may require optional attachment to compressor)
- Air filter (may require attachment to compressor)
- 6' Rubber Hose
- Maximum pressure **8BAR**

FUNCTIONAL DESCRIPTION



A	Wheel
B	Air tank
C	On/Off switch
D	Oil sight glass
E	Oil cap
F	Handle
G	Pressure regulator
H	Pressure gauge
I	Hook
J	Plastic screw
K	Drain valve

ASSEMBLY

- Remove air filter from plastic bag and screw it into the thread hole. Be sure to securely clean air filter before and after use.
- Remove the oil filler threaded plug and replace it with the oil filler breather cap.

OPERATING INSTRUCTIONS

Your new air compressor can be used for operating paint, wood filler, and insecticide sprayers, air tools, grease & caulking guns, sandblasters, inflation, etc. A tool with a higher air demand than this compressor can produce may either not function, or run for/after well. It may also cause the compressor to run without stopping for long periods of time, trying to maintain pressure to the tank. This will cause the motor to overheat and may damage the motor and/or pump. Note: the rate the requirements of your tools can be met by the compressor.

To compress air, the piston in the pump moves up and down in the cylinder. On the down stroke, air is drawn in through the inlet valve. Since the discharge valve remains closed, as the piston goes up, the air in the cylinder is compressed. When the pressure is sufficient, the compressed air is forced out into the air receiver. A check valve prevents it from going back into the pump. Pumping air is not immediately available. The pump continues to build air pressure until it reaches the required level or the regulator.

INSTALLATION AND LOCATION

Locate the compressor in a clean, dry and well-ventilated area, on a firm level surface. It should be located 12" to 18" (30 to 45 cm) from a wall or any obstruction that may restrict the ventilation flow. Do not locate in damp or poorly ventilated areas that allow for proper cooling. Keep them and other parts free of dust or dirt that could interfere with cooling. A clean compressor runs cooler and provides longer service. Do not place anything on top of the compressor.

WARNING! Do not use near an ignition source, such as pilot lights and fittings. It may result in the decomposition of the compressor's oil discharge and cause the piping to break.

EXTENSION CORDS

If you plan to use an extension cord when operating your air compressor, remember:

- Maximum length: not to exceed 50 ft. (15 m.)
- Minimum wire size: 14 gauge.
- If the extension cord is too long or the wire size is too small, the air compressor will not start.

COMPRESSOR LUBRICATION

1. CHECK THE OIL quantity and quality before operating the compressor. Do not add or change oil while the compressor is in operation. Use only oil with the correct specifications.
2. Be sure the air compressor is on a level surface.
3. Remove the oil filler breather cap and oil filler transport plug on the top of the crankcase, revealing the oil fill hole.
4. Fill the oil reservoir with SAE-20 heavy-duty, non-detergent compressed oil. For extreme cold weather conditions, use lighter SAE 10 weight.
5. The reservoir capacity is approximately 550 ml (1.0 fl. oz.). There may be some oil left over from the manufacturing process already in the reservoir. Be careful not to over-fill.

OPERATING INSTRUCTIONS

Fig. 6

6. Check the oil level sight-glass (D, fig.1 & 2). The oil should show level with the red dot in the centre of the viewing window.
7. Find the oil fill breather cap (F, fig.1 & 2).
8. Gently screw the oil breather into the oil fill hole. Do not cross-thread or over-tighten.

INITIAL BREAK-IN

Fig. 7

1. Open (turn the brass knurled knob out, counter-clockwise) the air tank moisture release pressure. Fig. 8) to permit air to escape, so no air pressure builds up in the air tank.

Fig. 8

2. Plug power supply cord into correct power source.
3. Pull up on the Auto-On/Off switch to start the compressor.
4. Run the compressor in the no-load condition for 15 to 30 minutes to lubricate the bushings and pistons.
5. Close (turn the knurled knob in, clockwise) the air tank moisture release valve.
6. Pressure will build in the tank and the Pressure switch will stop the pump when it reaches the pressure set on the regulator. Your compressor is now ready for use.

NOTE: During the break-in period, there may be a slight smell as the electrical motor brushes seat themselves. This may last for about 5 minutes and is normal.

CAUTION! If the compressor does not run properly after 10 minutes of the break-in or if you notice any abnormalities, please contact the service centre.

OPERATING INSTRUCTIONS

BEFORE OPERATING

- Check that all nuts and bolts are all snug.
- Check the quantity and quality of oil (see compressor lubrication, above).

CAUTION! Before operating this unit, check it thoroughly for damage or corrosion. Ensure that tank, compressor, motor and pump are all good condition and caps are tight.

STARTING THE COMPRESSOR

1. Make sure wiring fuse and power supply are correctly installed.
2. Plug the power cord into the correct power source.
3. Turn on power switch. The pressure inside the tank will increase until it reaches 90 PSI. The switch will then automatically shut down at this point.
4. 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. Some tools require lower pressure to be regulated to never exceed the maximum pressure rating of the tool.
5. 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.
6. To shut down the compressor and avoid air leakage, see Teflon tape to wrap around male and coupler thread.

AIR RELEASE

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

MAINTENANCE

WARNING! Before any maintenance or adjustment to your air compressor, always take the following safety precautions:

1. Disconnect electrical power.
2. Open the moisture release pressure to drain all tank of pressure.

DAILY MAINTENANCE

Before each use:
☐ Check the oil level
☐ Be sure all nuts and bolts are tight
☐ Check for any unusual noise or vibration
☐ After use, open the air tank petcock to drain condensation from tank

MAINTENANCE

WEEKLY MAINTENANCE

☐ Clean air filter by opening air filter cap (C fig. 1). Remove the filter element and clean thoroughly with soap and water. Rinse thoroughly and allow to completely dry before reinstalling.
☐ Clean moisture from oil sight glass.

MONTHLY MAINTENANCE

☐ Inspect air system for leaks by applying soapy water to all joints.
☐ Tighten those joints if leakage is observed.
☐ Check that all nuts and bolts are tight.

AFTER 250 HOURS OR SIX (6) MONTHS
(whichever comes first)

CHANGE COMPRESSOR OIL

WARNING! Before any removing the oil drain plug (oil level sight glass) or the oil breather cap from your air compressor, always take the following safety precautions:

- Disconnect electrical power.
- Open the moisture release valve to drain all tank of pressure.

1. Remove the oil level sight glass (D, fig.1 & 2). Use a 24 mm wrench. Allow old oil to drain completely.
2. Replace the oil drain plug and gasket (we recommend also using a sealing compound or Teflon to avoid leakage). Do not over-tighten.
3. **Refill** with the reservoir with SAE-20 (API CI/CE heavy duty) non-detergent compressed oil or for extreme winter conditions, use SAE-10 weight.
4. The reservoir capacity is approximately 350 ml (11.8 fl. oz.). Fill to the red dot in the oil level sight glass. Do not over-fill.

IMPORTANT! Replace oil more often if compressor is used near-point spraying operations or in dusty environments.

CAUTION!

- ☐ All air line components (including hoses, pipe, connection, filters, & regulators, etc.) must be rated for a minimum working pressure of 100 psi or 150% of the maximum system pressure, whichever is greater.
- ☐ Disconnect any hose from the air supply before performing maintenance, clearing a jammed fastener, leaving the work area, moving the tool to another location, or handing it to another person.
- ☐ When cleaning air filter, or any parts in direct contact with the air production, do not use any flammable or toxic cleaner or solvent
- ☐ 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.

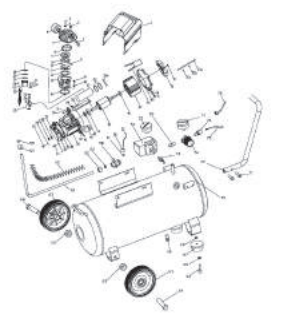
MAINTENANCE

- Keep the vents and cooling holes clear of dust and debris. This will help prevent overheating and will lengthen the life of your tool.
- Inspect the cord regularly and have it replaced by an authorized repair facility if it is damaged.
- Check the tools regularly for debris, sawdust and other damage. Do not use if any part is damaged or jammed.
- Unauthorized repair centre should do any repairs, modification, or maintenance that involves disassembling the compressor.
- Please call toll-free 1(866) 357-2715 with any questions you have or service advice you may need.

TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSE	SOLUTION
Compressor runs continuously	Pressure is worn	Clean/relocate
	Prolonged or excessive use of air	Decrease air demand
	Compressor is not large enough for job	Check the air requirement of air tool.
	Restricted check valve	Remove and clean, or replace
	Leak in oil hose or connector	Check and replace if necessary
	Tank leaks	Replace tank immediately! Do not attempt to repair!
Blown seals	Ruptured	Replace
Compressor starts and stops occasionally or rapidly	Petcock is partially open	Close petcock
	Fittings leak	Locate fittings with soapy water. Tighten or replace. Do not over-tighten.
Compressor will not start	Fuse or circuit breaker tripped	Check for cause & replace or reset
	Loose electrical connections	Check wiring connections
	Extension cord not wired	Min. 16 ga (AWG) min. 10 ga
	Low voltage	Consult electrician
	Overheated motor	Let cool down or wait for auto reset
	Check valve is stuck open	Remove and clean or replace
	Pressure bleeder valve on pressure switch has not checked head properly	Move switch to Off and then restart
	Worn spring on internal motor parts	Consult service centre
Circuit breaker trips (or fuse blows) too often	Low voltage	Consult electrician
	Excessive wire length	Try to run compressor without extension cord
	Restricted air passages	Contact service centre
	Incorrect pressure to pump head	Replace check valve
		Replace pressure switch bleeder valve
Low pressure	Air leak in safety relief valve	Check valve manually, pull ring outward
	Restricted air filter	Clean or replace air filter
	Defective check valve	Replace check valve
Safety pressure relief valve opens	Defective pressure switch or improper adjustment	Check for proper adjustment and if problem persists, replace pressure switch
Oil discharge is air	Improper oil viscosity	Replace with SAE-20 non-detergent compressor oil
	Too much oil in crankcase	Drain crankcase and fill to correct level
Compressor overheated	Air pressure regulated too high	Reduce regulator setting
	Restricted air filter	Clean/ext replace air filter
	Poor ventilation	Relocate compressor
	Dirty cooling surface	Clean pump cooling areas

SCHEMATIC DRAWING



PARTS LIST

Please refer to the Schematic Drawing on page 12.

Part	Description	Qty
1	Screw M6 x 16	4
2	Shroud	1
3	Belt Guard	1
4	Screw Hex Flange M6	4
5	Screw M8 x 30	4
6	Air Filter	1
7	Cylinder Head	1
8	Valve Gasket	1
9	Valve Plate	1
10	Cylinder Gasket	1
11	Cylinder	1
12	Piston Rings Gasket	1
13	Piston	1
14	Ball M8 x 30	4
15	Connecting Rod Set	1
16	Crankshaft Gasket	1
17	Key	1
18	Compression Ring	1
19	Oil Ring	1
20	Piston Retainer	1
21	Wheel	2
22	Connecting Rod	1
23	Screw M6 x 20	4
24	Hex Nut M8	4
25	Crankcase	1
26	Oil Plug	1
27	Oil Fill Cap	1
28	Screw M6 x 30	1
29	Crankcase Gasket	1
30	Hex Nut M6	1
31	Crankcase Cover	1
32	Oil Seal	1
33	Oil Seal Glass	1
34	O-Ring	1
35	Screw Plug M8 x 16	1
36	Oil Dipstick	1
37	Oil Plug	1
38	Crankcase Cover Gasket	1
39	Plastic Crankcase	1
40	Washer M8	12

Part	Description	Qty
41	Screw M8 x 16	12
42	Wire set (Switch/Protector)	1
43	Oil Seal	1
44	Bearing	1
45	Bearing	1
46	Flange	1
47	Thermal Protector	1
48	Belt Cover	1
49	Motor	1
50	Handle	1
51	Plain Washer 8	4
52	Spring Washer 8	4
53	Nut M8	4
54	Connector	1
55	Tank Pressure Gauge	1
56	Pressure Switch	1
57	Adjustable Valve	1
58	Pipe	1
59	Elbow	1
60	Check Valve	1
61	Manifold	1
62	Pipe	1
63	Compact Tube	1
64	Quick Tee	1
65	Elbow	1
66	Tank Pressure Gauge	1
67	Pipe	1
68	Knob	1
69	Quick Plug	1
70	Elbow	1
71	Tank Tee	1
72	Screw M6 x 16	4
73	Plastic Screw	4
74	Tank Assembly	1
75	Rubber Foot	4
76	Drain Valve	1
77	Quick Coupler	1
78	Coupler Protector Gasket	1
79	Plug	1