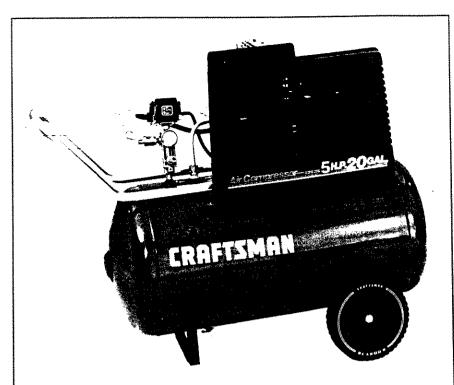
SEARS OWNERS MANUAL

MODEL NO. 919.176850

IMPORTANT:

Read the Safety Guidelines and All Instructions Carefully Before Operating



CRAFTSMAN AIR COMPRESSOR

Record in the spaces provided.

- (1) The model number which can be found on the label on the rear of the air tank.
- (2) The code number which can be found on the foil label on the rear of the air tank.
- (3) The Manufacturers Number (ASME Code Compressors only) is located on the metal data plate which is welded onto the backside of the air tank. (This data plate is painted the same color as the tank.)
- (4) The Motor Manufacturers name which is located on the motor label or specification plate.
- (5) The Motor Mfg. number also located on the motor label or specification plate.

Retain these numbers for future reference.

ASSEMBLY OPERATION MAINTENANCE REPAIR PARTS

Model No.	
Code No.	
Mfg. No.	
Motor Mfg. Name	_
Motor Mfg. No.	

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FULL ONE YEAR WARRANTY ON AIR COMPRESSORS

If this air compressor fails due to a defect in material or workmanship within one year from the date of purchase, return it to the nearest Sears Service Center/Department throughout the United States and Sears will repair it, free of charge.

If this air compressor is used for commercial or rental purposes, the warranty will apply for ninety days from the date of purchase.

This warranty gives you specific legal rights and you may have other rights that vary from state to state

Sears, Roebuck and Co., Sears Tower, Dept. 698/7131 CR-W, Chicago, IL 60684

SAFETY GUIDELINES

This manual contains information that is important for you to know and understand. This information relates to protecting your safety and preventing equipment problems. To help you recognize this information, we use the following symbols. Please read the manual and pay special attention to sections headed by these symbols.



URGENT SAFETY INFORMATION - A HAZARD THAT WILL CAUSE SERIOUS INJURY OR LOSS OF LIFE.



information for preventing damage to equipment.

WARNING

IMPORTANT SAFETY INFORMATION - A HAZARD THAT MIGHT CAUSE SERIOUS INJURY OR LOSS OF LIFE.

NOTE

Information that you should pay special attention to.

ing less than 125 psi.

WARNING

HAZARDS CAN OCCUR IF EQUIPMENT IS NOT USED PROPERLY. PLEASE READ THE FOLLOWING CHART.

WHAT TO LOOK FOR	WHAT COULD HAPPEN	HOW TO PREVENT IT
Compressed Air	Compressed air can propel dust, dirt or loose particles it comes in contact with.	Never point any nozzle or sprayer toward a person or any part of the body.
		Always wear safety goggles or glasses when using the air compressor.
		Always turn the air compressor off and release air pressure from hose before attaching or removing accessories.
	Too much air pressure applied to air tools or accessories can cause damage or risk of bursting.	Check the manufacturer's maximum pressure rating for air tools, accessories, or the item you will pressurize. An air regulator must be added for use with those items having a maximum pressure rat-

WHAT TO LOOK FOR	WHAT COULD HAPPEN	HOW TO PREVENT IT
Unsuitable Solvents	The solvents 1,1,1 – Trichloroethane and Methylene Chloride can chemically react with aluminum used in paint spray guns, paint pumps, etc., and cause an explosion. These solvents can also react with galvanized components and cause corrosion and weakening of parts. This does not affect your air compressor – but it may affect the equipment being used.	If the material you intend to spray contains the solvents listed at left (read the label or data sheet), do not use accessories that contain aluminum or galvanized parts. You must either change the material you intend to spray, or use only stainless steel spray equipment.
Electricity	Like any other electrically powered device, if it is not used properly it can cause electrical shock.	Always unplug the air compressor prior to maintenance or repair.
		Never use the air compressor outdoors when it is raining.
		Always plug the cord into an electrical outlet with the specified voltage and adequate fuse protection.
Moving Parts	This compressor cycles automatically when the switch is in the "On-Auto" position. If you attempt repair or maintenance while the com-	Always unplug the unit and release air pressure from the tank and any accessories before doing repair or maintenance.
	pressor is operating, or with the switch in the "On-Auto" position, you can expose yourself to moving parts. These moving parts can cause serious injury or damage, if they come into contact with you or your clothing.	Never operate the compressor with the belt guard removed.
Toxic Vapors	It is normal for compressed air to contain toxic or irritating vapors. Such vapors are harmful if inhaled.	Never directly inhale the compressed air produced by this unit.
	Certain materials you are spraying (like paint, weed killer, sand or insecticide) can be harmful	Read labels and safety data for all materials you spray. Follow all safety precautions.
	if you inhale them.	Use a mask or respirator if there is a chance of inhaling toxic sprayed materials. Masks and respirators have limits and will only provide protection against some kinds and limited amounts of toxic material. Read mask and respirator instructions carefully. Consult with a safety expert or industrial hygienist if you are not sure about the use of a certain mask or respirator.
Air Tank	Modifications to the air compressor can cause the air tank to rupture or explode.	Do not adjust, remove or tamper with the safety valve or pressure switch. If safety valve or pressure switch replacement is necessary, a part with the same pressure rating must be used.
		For Service Replacement use only the motor, pulley and belt designed as standard service replacement parts indicated in the parts list. Use of improper parts could cause overloading of your unit and electrical supply.
		Do not substitute a gas engine for the motor this compressor was not designed to be powered by a gasoline engine.
		Never replace the compressor pump with a different model.
		Never increase the compressor pump speed.
		Do not fix mount or permanently attach the com- pressor feet. This outfit is intended for portable use (with wheels) only.
	Changing the air tank will cause it to weaken. The tank can rupture or explode.	Never drill into, weld, or in any way modify the air tank. Do not repair a leaking tank, it must be replaced.
		Never replace the air tank with a different model of a larger tank.

WHAT TO LOOK FOR	WHAT COULD HAPPEN	HOW TO PREVENT IT
Hot Parts	The compressor head and tubes get hot when the air compressor is running. If you touch them, you can be seriously burned.	Never touch the air compressor head or tubes during or immediately after operation.
Flammable Vapors	It is normal for the motor and pressure switch to spark when the compressor starts or stops. A spark can ignite flammable vapors from gasoline, solvents or some paints and cause a fire or explosion.	Operate the compressor in well ventilated areas that are free of gasoline, flammable paint or solvent vapors.
		If spraying a flammable material – provide ample ventilation. Never spray in a closed area. There must be a flow of fresh air at all times.

SPECIFICATION CHART

Model No.	919.176850
Horsepower	5
Displacement CFM	15.2
Bore	2 ⁷ /8"
Stroke	2"
Voltage-Single Phase	24 <u>0</u>
Minimum Branch Circuit Requirement	<u>15</u> amp
*Fuse Type	Fusetron Type "T"
Air Tank Capacity - Gallons	20 ASME
Approximate Cut-in Pressure	100
Approximate Cut-out Pressure	125
SCFM @ 40 psig	11.3
SCFM @ 90 psig	9.3
SCFM @ 125 psig	8.0
U.L. Listed	Yes

^{*}A circuit breaker is preferred. Use only a fuse or circuit breaker that is the same rating as the branch circuit the air compressor is operated on. If the air compressor is connected to a circuit protected by fuses, use dual element time delay fuses (Buss Fusetron Type "T" only).

CAUTION

This air compressor can be operated on a 15 amp circuit if:

- 1. Voltage supply to circuit is normal.
- 2. Circuit is not used to supply any other electrical needs (lights, appliances, etc.)
- 3. Extension cords comply with specifications in owners manual.

4. Circuit is equipped with 15 amp circuit breaker or 15 amp Fuestron Type "T" time delay fuse.

If any of the above conditions cannot be met, or if operation of the compressor repeatedly causes interruption of the power it may be necessary to operate it from a 20 amp circuit. It is not necessary to change the cordset if this change is made.

GLOSSARY

CFM: Cubic feet per minute.

SCFM: Standard cubic feet per minute; a unit of measure of air delivery.

PSIG: Pounds per square inch gauge; a unit of measure of pressure.

ASME: American Society of Mechanical Engineers; made, tested, inspected and registered to meet the standards of the ASME.

U.L. Listed: Underwriter Laboratories; Samples of compressor outfits, taken from production, were submitted to U.L. and found to comply with their requirements for design and performance.

Cut-in Pressure: While the motor is off, air tank pressure drops as you continue to use your accessory. When the tank pressure drops to a certain low level the motor will re-start automatically. The low pressure at which the motor automatically re-starts is called "cut-in pressure."

Cut-Out Pressure: When you turn on your air compressor and it begins to run, air pressure in the air tank begins to build. It builds to a certain high pressure before the motor automatically shuts off — protecting your air tank from pressure higher than its capacity. The high pressure at which the motor shuts off is called "cut-our pressure."

ACCESSORIES FOR USE WITH SEARS AIR COMPRESSORS

The following accessories are available through the current general sales catalog or at full-line Sears stores.

- **•SPRAY GUNS**
- **•BLOW GUNS**
- **-AIR CAULKING GUNS**
- **•AIR POWERED WASHER GUNS**
- SAND BLASTERS
- **•AIR BRUSHES**
- **•AIR LINE FILTERS**
- **•TIRE AIR CHUCKS**

- PAINT TANKS
- **•AIR TANKS**
- INFLATOR KITS
- **•QUICK CONNECTOR SETS**
 - (various sizes)
- VISCOSIMETER
- **•AIR PRESSURE REGULATORS**
- •OIL FOG LUBRICATORS

·AIR TOOLS:

Sanders

Drills

Impact wrenches

Hammers

·AIR HOSE:

1/4", 5/16" OR 3/8" I.D.

in various lengths.

GENERAL INFORMATION

You have purchased an air compressor unit consisting of a 2 cylinder, single stage air compressor pump, an air ank, air hose, wheels, handle, air chuck and associated controls and instruments.

Your air compressor can be used for operating paint spray guns, air tools, caulking guns, grease guns, air orushes, sandblasters, power washers, inflating tires and plastic toys, spraying weed killers, insecticides, etc.

This model is not equipped with a pressure regulator. An air pressure regulator is usually necessary for most of hese applications. An Air Line Filter is usually required

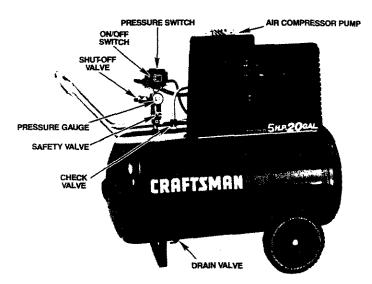
for removal of moisture and oil vapor in compressed air when a paint spray gun is used.

An in-line lubricator is usually required for air tools to prolong tool life.

Separate air transformers which combine the functions of air regulation and/or moisture and dirt removal should be used where applicable.

These accessories can be purchased from most Sears stores or through the Sears General catalog or Power Tool catalog.

DESCRIPTION OF OPERATION



Air Compressor Pump: To compress air, the pistons move up and down in the cylinders. On the downstroke, air is drawn in through the air intake filter and then through the air intake valves. The exhaust valve remains closed. On the upstroke of the piston, air is compressed. The intake valves close and compressed air is forced out through the exhaust valve, through the outlet tube, through the check valve and into the air tank. Working air is not available until the compressor has raised air tank pressure above that required at the air outlet.

Check Valve: When the air compressor is operating, the check valve is "open", allowing compressed air to enter the air tank. When the air compressor reaches "cut-out" pressure, the check valve "closes", allowing air pressure to remain inside the air tank.

Pressure Switch: The pressure switch automatically starts the motor when the air tank pressure drops below the factory set "cut-in" pressure. It stops the motor when the air tank pressure reaches the factory set "cut-out" pressure.

Pressure Release Valve: The pressure release valve located on the side of the pressure switch, is designed to automatically release compressed air from the compressor head and the outlet tube when the air compressor reaches "cut-out" pressure or is shut off. If the air is not released, the motor will try to start, but will be unable to. The pressure release valve allows the motor to restart freely. When the motor stops running, air will be heard escaping from the valve for a few seconds. No air should be heard leaking from the valve when the motor is running.

Safety Valve: If the pressure switch does not shut off the air compressor at or near its cut-out pressure setting, the safety valve will protect against high pressure by "popping out" at its factory-set pressure (slightly higher than the pressure switch cut-out setting).

Shut-Off Valve: Turn the knob counterclockwise to open the valve and clockwise to close.

ASSEMBLY INSTRUCTIONS

Items You Will Need To Assemble Your Compressor

- 16 oz. compressor oil, Sears 9-16426 or SAE 20-20W SF or SG motor oil
- · pipe thread sealant
- · an adjustable wrench for attaching the shut-off valve
- a 9/16" socket or open-end wrench for attaching the wheels and hose adapter

Installing Handle

WARNING

THE WHEELS AND HANDLE DO NOT PROVIDE ADEQUATE CLEARANCE, STABILITY OR SUPPORT FOR PULLING THE UNIT UP AND DOWN STAIRS OR STEPS. THE UNIT MUST BE LIFTED OR PUSHED UP A RAMP. DO NOT LIFT THE UNIT BY THE MANIFOLD ASSEMBLY. THE UNIT CAN BE DAMAGED.

- 1. Insert the open end of the handle under the saddle (Fig. 1). Before attaching handle, you may have to pull the open ends of the handle apart so they fit tightly against the side of the saddle. Looking in from the open end of the saddle, position the handle towards the two bent tabs, on the inside walls of the saddle. Slowly push the open ends of the handle onto both tabs at the same time (Fig. 2). Continue pushing the handle into the saddle until the holes on the side of the saddle and handle are in line.
- 2. Guide the straight end of each retaining clip through the saddle hole and both handle holes (Fig. 3).
- 3. Rotate each retaining clip clockwise and press down until it snaps into place over the pull handle (Fig. 4).
- 4. If the handle has excessive movement, it is improperly installed. Check the following:
 - A. Are both tabs inside the handle (Step #1)?
 - B. Does each clip pass through both the saddle and handle (Step #2)?

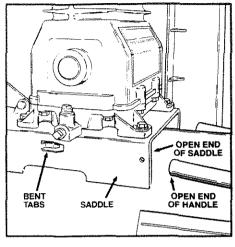


FIG. 1

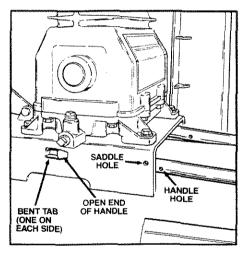


FIG. 2

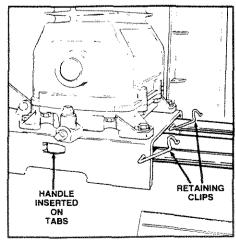


FIG. 3

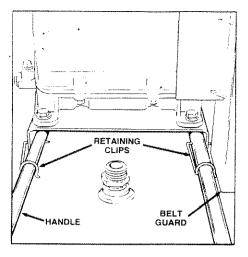


FIG. 4

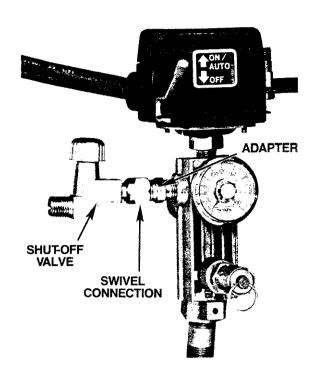
Installing Rubber Foot Strip and Wheels

CAUTION

It may be necessary to brace or support one end of the outfit when attaching the wheels because the air compressor will have a tendency to tip.

- 1. Remove the protective paper strip from the adhesivebacked rubber foot strip. Attach the rubber foot strip to the bottom of the air tank leg. Press firmly into place. (See page 14 key no. 39.)
- 2. The leg bracket on the underside of the air compressor tank has 2 holes on each side for mounting the wheels. Place one shoulder bolt through the hole in a wheel. Next, push the bolt through the LOWER hole of the leg bracket and screw on one hex locking nut. The special locking nut does not turn freely. Tighten the nut firmly until it contacts the leg. See pg. 14. The outfit will set level if the wheels are properly installed.

Installing Shut-off Valve



Apply a small amount of pipe sealant (not supplied) to the tapered pipe threads on the adapter and tighten into the manifold. Install the swivel connection end of the shut-off valve to the straight threaded end of the adapter (pipe sealant is not required) and tighten this connection. See photo above.

INSTALLATION AND BREAK-IN PROCEDURES

Location of the Air Compressor

Operate the air compressor in a clean, dry and well ventilated area. The air filter must be kept clear of obstructions which could reduce air delivery of the air compressor. The air compressor should be located at least 12" away from walls or other obstructions that could interfere with the flow of air through the fan bladed flywheel. The air compressor crankcase and head are designed with fins to provide proper cooling.

If humidity is high, a Sears air filter can be installed to remove excessive moisture, and oil vapor from the air. Closely follow the instructions packaged with the filter for proper installation. It must be installed as close as possible to the accessory.

Extension Cords

To avoid voltage drop and power loss to the motor, use extra air hose instead of an extension cord.

f an extension cord must be used:

use only a 3-wire extension cord that has a 3-blade grounding plug and a 3-slot receptacle that will accept the plug on the product.

make sure the extension cord is in good condition. the extension cord should be no longer than 50 feet.

the minimum wire size is 12 gauge (AWG) Sears #9-83606, 12 g. × 50' lg. ext. cord at your local Sears Service Center. (Wire size increases as gauge number decreases. 10 AWG and 8 AWG may also be used. DO NOT USE 14 AWG or 16 AWG.)

Lubrication and Oil

CAUTION

Compressors are shipped without oil. Do not attempt to operate this air compressor without first adding oil to the crankcase.

Place unit on a level surface. Remove oil fill plug (Key no. 77, pg. 15) and slowly add a special compressor oil such as Sears 9-16426 or SAE 20-20W SF or SG motor oil until it is even with the top of the oil fill hole. (It must not be allowed to be lower than $\frac{3}{6}$ " – 6 threads down – from the top, at any time.) When filling the crankcase, the oil flows very slowly. If the oil is added too quickly, it will overflow and appear to be full. Crankcase oil capacity is 16 fluid ounces. Under winter-type conditions use SAE 10W oil. Multi-viscosity oil, 10W30, will leave carbon deposits on critical components reducing performance and compressor life. Replace oil fill plug.

Grounding Instructions

WARNING

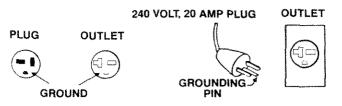
IMPROPER GROUNDING CAN RESULT IN ELECTRICAL SHOCK. IN THE EVENT OF A SHORT CIRCUIT, GROUNDING REDUCES THE RISK OF SHOCK BY PROVIDING AN ESCAPE WIRE FOR THE ELECTRIC CURRENT. THIS AIR COMPRESSOR MUST BE PROPERLY GROUNDED.

- The air compressor is equipped with a cord having a grounding wire and an appropriate grounding plug. The plug must be used with an outlet that has been installed and grounded in accordance with all local codes and ordinances. The outlet must have the same configuration as the plug. DO NOT USE AN ADAPTER.
- 2. Do not modify the plug that has been provided. If it does not fit the available outlet, the correct outlet should be installed by a qualified electrician.
- 3. Inspect the plug and cord before each use. Do not use if there are signs of damage.

A DANGER

ELECTRICAL SHOCK HAZARD. WHEN REPAIRING OR REPLACING THE CORD OR PLUG, KEEP THE GROUNDING WIRE SEPARATE FROM THE CURRENT-CARRYING WIRES. NEVER CONNECT THE GROUNDING WIRE TO A FLAT BLADE PLUG TERMINAL. (THE GROUNDING WIRE HAS INSULATION WITH AN OUTER SURFACE THAT IS GREEN – WITH OR WITHOUT YELLOW STRIPES.)

If these grounding instructions are not completely understood, or if you are not sure your compressor is properly grounded, have the installation checked by a qualified electrician.



Break-in Procedures



Serious damage may result if the following break-in instructions are not closely followed.

This procedure is required only once, before the air compressor is put into service.

- 1. Set the pressure switch lever to the "OFF" position.
- 2. Plug the power cord into the correct branch circuit receptacle.
- Open the shut-off valve, turn it counterclockwise to open, opening it fully, to prevent air pressure build-up in the tank.
- Move the pressure switch lever to "ON/AUTO". The compressor will start.
- Run the compressor for 30 minutes. Make sure the shut-off valve is open and there is no tank pressure build-up.
- 6. After 30 minutes, close the shut-off valve by turning the knob clockwise. The air receiver will fill to cut-ou pressure and the motor will stop. The compressor is now ready for use.

OPERATING PROCEDURES

- Before attaching an air hose or accessory, make sure the pressure switch lever is in the "OFF" position. Close the shut-off valve by turning the knob clockwise.
- 2. Attach hose and accessory.



TOO MUCH AIR PRESSURE CAUSES A HAZARDOUS RISK OF BURSTING. CAREFULLY FOLLOW STEPS 3 THROUGH 11 EACH TIME THE COMPRESSOR IS USED.

3. Check the manufactur's maximum pressure rating for air tools and accessories. The regulator outlet pressure must never exceed the maximum pressure rating. On this model, a regulator must be installed before using accessories rated at less than 125 psig.



Compressed air from the outfit may contain water condensation and oil mist. Do not spray unfiltered air at an item that could be damaged. Some air operated tools or devices may require filtered air. Read the instructions for the air tool or device.

- 4. Turn the pressure switch lever to the "ON-AUTO" position and allow tank pressure to build. The motor will stop when tank pressure reaches cut-out pressure.
- 5. Open the shut-off valve. Your outfit is ready for use.

When You Are Finished:

- 6. Set the pressure switch lever to "OFF."
- 7. Close the shut-off valve.
- 8. Remove the air tool or accessory.
- 9. Open the shut-off valve and allow the air to slow bleed from the tank. Close the shut-off valve who tank pressure is approximately 20 psi.

WARNING

WATER WILL CONDENSE IN THE AIR TANK. IF NOT DRAINED, WATER WILL CORRODE AND WEAKEN THE AIR TANK; CAUSING A RISK OF AIR TANK RUPTURE.

10. With tank pressure at approximately 20 psi., open the drain cock and allow moisture to drain. Turn drain T-handle counterclockwise to open.

NOTE

If the drain cock valve is plugged, release all air pressure. The valve can then be removed, cleaned, and reinstalled.

 After the water has been drained, close the drain cock (turn clockwise). The air compressor can now be stored.

MAINTENANCE

WARNING

UNIT CYCLES AUTOMATICALLY WHEN POWER IS ON. WHEN DOING MAINTENANCE, YOU MAY BE EXPOSED TO VOLTAGE SOURCES, COMPRESSED AIR OR MOVING PARTS. PERSONAL INJURIES CAN OCCUR. BEFORE PERFORMING MAINTENANCE OR REPAIR UNPLUG THE UNIT AND BLEED OFF ALL AIR TANK PRESSURE. NEVER OPERATE THE UNIT WITH THE BELT GUARD REMOVED.

Air Compressor

A clean air compressor runs cooler and provides longer service. Clean or blow off fins and any other parts of the air compressor that collect dust or dirt. Do not place rags, containers or other material on or against the ventilation openings in the belt guard. Adequate ventilation is necessary to maintain proper air compressor operating temperature.

Air Filter - Inspection and Replacement

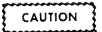
NOTE

Keep the air filter clean at all times. Do not operate the compressor with the air filter removed.

A dirty air filter will not allow the compressor to operate at full capacity. Before you use the compressor, check the air filter to be sure it is clean.

If it is dirty, replace it with a new filter. The filter may be removed by using a pair of needle nosed pliers or a screwdriver. Pull or pry out the old filter. Push in the new air filter.

Oil - Checking and Changing



Overfilling with oil will cause premature compressor failure. Do not overfill.

Check oil level in the crankcase daily. Remove the oil fill plug (Key no. 77, pg. 15). The oil level should be even with the top of the fill hole and must not be allowed to be lower than 3/8" from the top (6 threads) at any time. It is recommended that the oil be changed after every 100 hours of operation. To drain the oil, remove the oil drain plug and collect the oil in a suitable container. Be sure to replace the plug securely before adding new oil. Use a special compressor oil such as Sears 9-16426 or SAE 20-20W SF or SG motor oil. (Crankcase oil capacity is 16 fluid ounces.) Under extreme winter conditions use SAE

10W. Multi-viscosity oil (10W30) will leave carbon deposits on critical components which will reduce performance and compressor life.

Check Valve - Replacement

- 1. Release air pressure from the air tank.
- Loosen the top and bottom tube nuts and remove the outlet tube.
- 3. Unscrew the check valve (turn counter-clockwise) using socket wrench. (%").
- 4. Check that the valve disc moves freely and that the spring holds the disc in the upper, closed position. The check valve may be cleaned with a solvent – such as paint thinner or carburetor cleaner.
- 5. Apply sealant to the check valve threads. Reinstall the check valve (turn clockwise). Do not over tighten.
- Replace the outlet tube and tighten top and bottom tube nuts.

Safety Valve - Inspection

WARNING

IF THE SAFETY VALVE DOES NOT WORK PROPERLY OVER-PRESSURIZATION MAY OCCUR, CAUSING AIR TANK RUPTURE OR EXPLOSION. OCCASIONALLY PULL THE RING ON THE SAFETY VALVE TO MAKE SURE THAT THE SAFETY VALVE OPERATES FREELY. IF THE VALVE IS STUCK OR DOES NOT OPERATE SMOOTHLY, IT MUST BE REPLACED WITH A VALVE HAVING THE SAME PRESSURE RATING.

Motor

The motor has a manual thermal overload protector. If the motor overheats for any reason, the overload protector will shut off the motor. The motor must be allowed to cool down before restarting. Turn the unit off. To restart, depress the red reset button located on the end of the motor and turn the unit on.

NOTE

If the overload protector shuts the motor off frequently, check for a possible voltage problem. Low voltage can also be suspected when:

- the motor does not get up to full power or speed:
- 2. fuses blow out when the motor is started.
- 3. lights dim when motor is started, and remain dim while it is running.

Belt - Replacement

WARNING

SERIOUS INJURY OR DAMAGE MAY OCCURIF PARTS OF THE BODY OR LOOSE ITEMS GET CAUGHT IN MOVING PARTS. NEVER OPERATE THE OUTFIT WITH THE BELT GUARD REMOVED. THE BELT GUARD SHOULD BE REMOVED ONLY WHEN THE COMPRESSOR IS UNPLUGGED.

To Replace Belt:

- 1. Unplug compressor.
- Remove the front of the belt guard by disengaging the snaps. Insert a flat bladed screwdriver at each snap location and pry the beltguard apart.

- The motor is mounted on a special base. By loosening the wing nut at the motor hold down plate, the motor can be tilted to allow for easy removal of the belt.
- 4. Remove belt and replace.

NOTE

The belt must be centered over the grooves on the flywheel and motor pulley.

- 5. Tighten the wing nut until it makes contact with the washer plus one additional turn.
- 6. Replace the front of the beltquard.

To Adjust Belt Tension:

 Tighten the wing nut until it contacts the washer, plus one more turn.

Pulley and Flywheel - Alignment

The compressor flywheel and motor pulley grooves must be in-line (in the same plane) within 1/32'' to assure belt alignment within grooves. To check alignment, disconnect electrical power and remove the beltguard. Place a straightedge against the outside of the flywheel and measure the distance from it to the nearest groove. Alignment is achieved when the other end of the straightedge is within 1/32'' of the measured dimension at the pulley groves.

STORAGE

Before You Store The Air Compressor:

- 1. Review the "Maintenance" section on the preceding pages and perform maintenance as necessary. Drain the water from the air tank.
- 2. Set the OFF/AUTO switch to the "OFF" position, and unplug the unit.
- 3. Remove the air tool or accessory.
- 4. Protect the electrical cord and air hose from damage (such as being stepped on or run over). Wind them loosely around the outfit handle.
- 5. Store the compressor in a clean and dry location.

TROUBLESHOOTING GUIDE

WARNING

PERFORMING REPAIRS MAY EXPOSE VOLTAGE SOURCES, MOVING PARTS, OR COMPRESSED AIR SOURCES. PERSONAL INJURY MAY OCCUR. PRIOR TO ATTEMPTING ANY REPAIRS THE COMPRESSOR MUST BE UNPLUGGED AND TANK PRESSURE RELIEVED. NEVER OPERATE THE UNIT WITH THE BELT GUARD REMOVED.

PROBLEM	CAUSE	CORRECTION
Excessive tank pressure – safety valve pops off.	Pressure switch does not shut off motor when compressor reaches "cut-out" pressure.	Move the pressure switch lever to the "OFF" position. If the outfit doesn't shut off, and the electrical contacts are welded together, replace the pressure switch.
		If the contacts are good, check to see if the pin in the bottom of the pressure relief valve is stuck. If it does not move freely, replace the valve.
	Pressure switch "cut-out" too high.	Return the outfit to the Sears Service Center to check and adjust or replace switch.
Air leaks at fittings	Tube fittings are not tight enough.	Tighten fittings where air can be heard escaping Check fittings under soapy water solution. DC NOT OVER-TIGHTEN.

TROUBLESHOOTING GUIDE (continued)

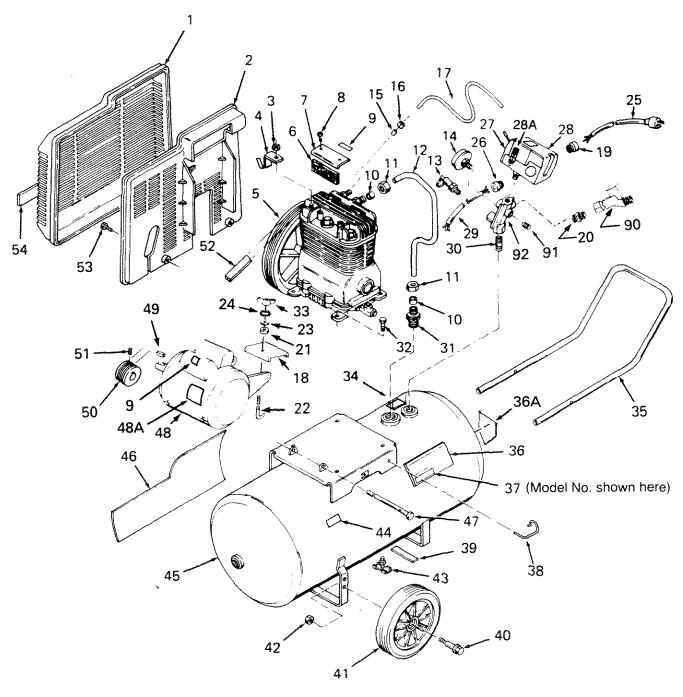
ROBLEM	CAUSE	CORRECTION
ir leaks at check valve	Defective or dirty check valve.	A defective check valve results in a constant air leak at the pressure release valve when there is pressure in the tank and the compressor is shut off. Remove and clean or replace check valve. DO NOT OVER-TIGHTEN.
ir leaks at pressure witch release valve	Defective pressure switch release valve.	Remove and replace the release valve.
	Defective check valve.	A defective check valve results in a constant air leak at the pressure release valve when there is pressure in the tank and the compressor is shut off. Remove and clean or replace check valve. DO NOT OVER-TIGHTEN.
ir leaks in air tank	Defective air tank.	Air tank must be replaced. Do not repair the leak. WARNING
		DO NOT DRILL INTO, WELD, OR OTHER- WISE MODIFY AIR TANK OR IT WILL WEAKEN.
compressor is not supplying nough air to operate acces-	Prolonged excessive use of air.	Decrease amount of air usage.
ories.	Compressor is not large enough for air requirement.	Check the accessory air requirement. If it is higher than the CFM or pressure supplied by your air compressor, you need a larger compressor.
	Restricted air intake filter.	Clean or replace air intake filter.
	Hole in hose.	Check and replace if required.
	Check Valve restricted.	Remove and clean or replace.
	Air leaks.	Tighten Fittings. (See Air Leaks Sections of Troubleshooting Guide.)
nocking noise	Defective check valve.	Remove and clean or replace.
	Loose pulley.	Tighten pulley set screw to 70-80 in. lbs.
	Low oil level.	Maintain prescribed oil level. Add oil.
	Loose flywheel.	Tighten screw to 15-20 ft. lbs.
	Loose compressor mounting screws.	Check screws. Tighten as required to 15-20 ft. lbs.
	Loose belt.	Tighten wing nut on motor mount until it contacts the washer, plus one more turn.
	Carbon build up.	Remove the head and valve plate. Clean the valve plate and the top of the piston. (Be sure carbon does not fall into the cylinder.) Reassemble using new gaskets and torque screws, 25 to 30 ft. lbs.
ir leaks from safety valve	Possible defect in safety valve	Operate safety valve manually by pulling on ring. If valve still leaks, it should be replaced.

TROUBLESHOOTING GUIDE (continued)

PROBLEM	CAUSE	CORRECTION
Excessive belt wear	Loose belt.	Adjust tension. See Belt Replacement, pg. 11.
	Tight belt.	Adjust tension. See Belt Replacement, pg. 11.
	Loose pulley.	Check for worn keyway or pulley bore. Also check for bent motor shaft. Replace parts if necessary.
	Pulley misalignment.	Motor pulley and flywheel grooves must be in line within $\frac{1}{32}$ ".
Squealing sound	Loose belt.	Adjust tension. See Belt Replacement, pg. 11.
	There is no oil in the compressor.	Add oil.
Motor will not run	Motor overload protection switch has tripped.	Let motor cool off and reset switch by pressing the red button located on the end of the motor.
	Tank pressure exceeds pressure switch "cut-in" pressure.	Motor will start automatically when tank pressur drops below "cut-in" pressure of pressure switch
	Wrong gauge wire or length of extension cord.	Check for proper gauge wire and cord length.
	Check valve stuck open.	Remove and clean or replace. DO NOT OVEF TIGHTEN.
	Loose electrical connections.	Unplug the compressor. Check wiring connection inside pressure switch and motor terminal box area.
	Possible defective capacitor.	Return to Sears Service Center for inspection or replacement if necessary.
	Paint on internal motor parts.	Have motor checked at a Sears Service Center. Do not operate compressor in or near a paint spray area.
	Possible defective motor.	Have checked at a local Sears Service Center.
	Fuse blown, circuit breaker tripped.	 Check fuse box for blown fuse and replace necessary. Re-set circuit breaker. Do not use fuse or circuit breaker with higher rating that that specified for your particular branch circuit. Check for proper fuse; only Buss Fusetron Type "T" fuses are acceptable. Check for low voltage conditions and/or proper extension cord. Remove check valve and clean or replace if it stuck open or closed. Disconnect the other electrical appliances from circuit or operate the compressor on its own branch circuit.
	Pressure release valve on pressure switch has not unloaded head pressure.	Bleed the line by pushing the lever on the pressu switch to the "OFF" position; if valve does n open, replace it.

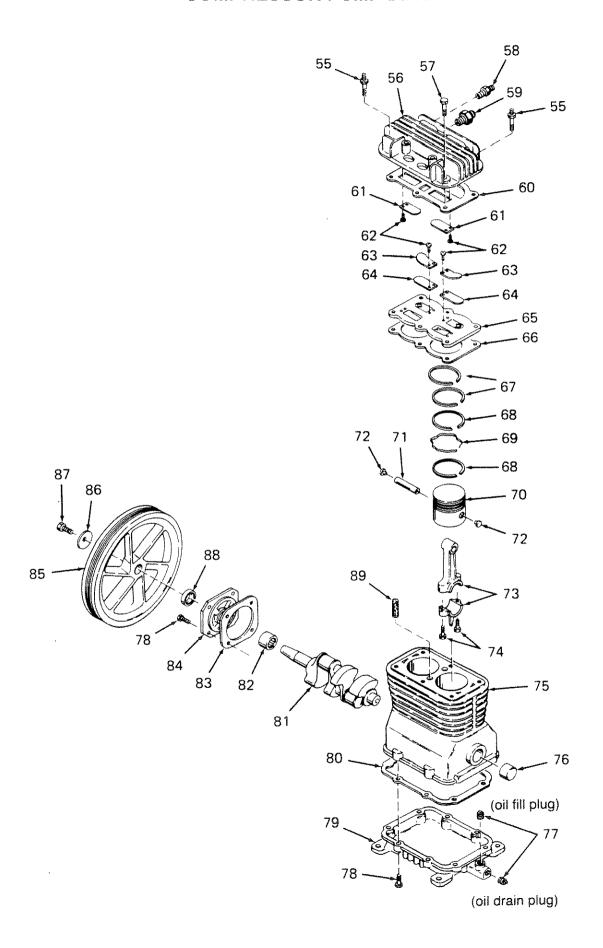
AIR COMPRESSOR DIAGRAM

(view from back)



(See pg. 8, Step 2 for proper wheel placement and assembly)

COMPRESSOR PUMP DIAGRAM



PART LIST (continued)

```
51
            SS-391
                              Set screw
                              Poly-V-Belt, 39" long
   52
            C-BT-223
   53
            SSF-986
                              Self-tapping screw (2 used)
   54
            LA-1951
   55
            SSF-6627
                              Stud 3/8" x 16 both ends (2 used)
   56
            CAC-293
                             - Head
   57
            SSF-955
                              Screw, 3/8-16 x 1-1/2" (4 used)
   58
            SS-8553
                              Adapter
   59
            SSP-9401
                              Adapter
 / 60
            CAC-291
                             - Head gasket
 61
            265-25
                              intake flapper valve - square corners
                              (2 used on head)
 62
            SSF-9821
                              Screw #5-40 × 1/4" (8 used)
  63
            CAC-294
                              Restrictor plate (2 used)
                              Exhaust flapper valve - beveled corners
  64
            265-196
                              (2 used on valve plate)
  65
            CAC-289
                            -Valve plate
            CAC-54-1
✓ 66
                            - Valve plate gasket
            CAC-56
+ 67
                              Compression ring (4 used)
4 68
           CAC-58
                              Oil ring (4 used)
+ 69
            CAC-57
                              Oil ring expander (2 used)
  70
            CAC-55
                              Piston (2 used)
  71
            265-19
                              Piston pin (2 used)
                              Piston pin plug (4 used)
  72
            CAC-207
                              Connecting rod assembly (2 used) Includes two SSF-927 screws.
  73
            265-410
  74
            SSF-927
                              Screw, 1/4-20 x 1-1/8" (4 used)
  75
            CAC-51
                              Crankcase and cylinder
  76
            265-41
                              Needle bearing
  77
            SSP-1413
                              Pipe plug (2 used)
  78
           SSF-925
                              Screw, 1/4-20 x 7/8" (12 used)
  79
           265-3
                              Base
  80
           265-16
                             Base gasket
  81
           CAC-373
                             Crankshaft
  82
           265-23
                             Needle bearing
                             End plate gasket
✓ 83
           265-13
  84
           265-9
                             End Plate
  85
           265-2
                             Flywheel
  86
           SSN-1014-ZN
                             Belleville washer
  87
           STD523107
                             Cap screw
 88
                             Seal
           265-111
 89
                             Vent filter
           265-6
  90
                             Shut-off valve
           CAC-4284
  91
           SS-3222-CD
                             Pipe plug
  92
           CAC-366
                             Manifold
                             NOT ILLUSTRATED
           9-16269
                             Air chuck
                             Air hose assembly (1/4" I.D. x 15')
           9-16163
          SI-30-14-7-B
                             Owner's Manual
```

[★] Key No. 67, 68 and 69, only available in Ring Kit KK-4313

[✓] Key No. 6, 60, 66, 80, 83, 88 and 89, available as individual parts and part of Gasket Kit KK-4312-2.

[●] Key No. 61, 62 and 64, only available in Valve Kit KK-4275.

PARTS LIST

KEY NO.	PART NUMBER	DESCRIPTION
1	CAC-322	Belt guard, outside
2	CAC-323	Belt guard, inside
3	SSF-8113-ZN	Lock nut
4	CAC-327	Bracket
5	CAC-4003-1	Compressor pump assembly
•	ONO 4000 1	Includes Key No. 55 through 89 inclusive.
6	9-16279	Intake filter - package of 2 (1 used)
7	265-18	Filter retainer
8	SSF-935	Screw, #8-32 x 3/8" (2 used)
9	LA-1779	Hot Surface Label (2 used)
10	STD575051	Ferrule (2 used for 1/2" O.D. Tube)
11	STD575050	Nut (2 used for 1/2" O.D. Tube)
12	CAC-317	Outlet tube
13	TIA-4150	Safety valve
14	C-GA-345	Pressure gauge
15	STD575026	Ferrule (2 used for 1/4" O.D. Tube)
16	STD575025	Nut (2 used for 1/4" O.D. Tube)
17	CAC-387	Pressure release tube
18	CAC-1012	Hold down plate
19	SSW-7385	Strain Relief
20	H-2099	Adapter
21	CAC-1011	Elastomer spring
22	CAC-1013	Hold down screw
23	SSN-56-ZN	Flat Washer
23 24	SSN-1619-ZN	Lock Washer
2 5	SUDL-415-1	Cord assembly
26	SSW-7367	Strain relief
27	LA-1531-1	Label
28	CAC-4221-1	Pressure switch
28A	KK-4315	Pressure release valve and mounting nut (Included with #28)
29	CAC-4215-1	Motor cord assembly
30	SS-1287	Nipple
31	CAC-437	Check valve
32	SSF-928	Screw 5/16"-18 x 7/8" (4 used)
33	STD-541631-	Wing nut
34	LA-1848-1	Warning label
35	CAC-320	Handle
36	LA-1814	Periodic maintenance label
36A	LA-1978	Drain tank label
37	LA-1952-1	Specification label
38	CAC-1059	Retaining Clip (2 used)
38A	CAC-399	Plastic Sleeve
39	SUDL-6-1	Rubber foot strip
40	CAC-60	Shoulder bolt (2 used)
41	CAC-4293	8" wheel (2 used)
42	STD541437	Lock nut (2 used)
43	SS-2707	Drain cock
44	Not Available	Code number label
45	TA-4072	Air tank, 20 gallon ASME
46	LA-1811-1	Sears Craftsman label
47	CAC-287	Pivot pin
48	MO-6436	Motor, 5 HP
48A	LA-1946-1	HP label
49	STD580104	Motor shaft key (3/16" x 3/16" x 11/4")
5 0	C-PU-2861	Motor pulley
	APL IS APL STRINGS APL C	······································