Owner's Manual

AIR COMPRESSOR 3-gallon 1.5 HP (max developed) 1 HP Running Oil Lubricated.

Model No. 921.153101



CAUTION: Before using this product, read this manual and follow all its Safety Rules and Operating Instructions.

- Safety Instructions
- Installation & Operation
- Maintenance & Storage
- Troubleshooting Guide
- Parts List
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Sears, Roebuck and Co., Hoffman Estates, IL 60179 U.S.A. www.sears.com/craftsman

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ONE YEAR FULL WARRANTY ON CRAFTSMAN AIR COMPRESSOR

If this Craftsman Air Compressor fails due to manufacturer's defects in material or workmanship within one year of the date of purchase, RETURN IT TO THE NEAREST SEARS STORE OR SERVICE CENTER IN THE UNITED STATES and it will be replaced or repaired (at our option), free of charge

If this Air Compressor is used for commercial or rental purposes, this warranty applies for only 90 days from the date of purchase. This warranty gives you specific legal rights and you may also have other rights which vary from state to state

Sears, Roebuck and Co., Dept. 817WA, Hoffman Estates, IL 60179

Safety Instructions

The information listed below should be read and understood by the operator. This information is given to protect the user while operating and storing the alr compressor. We utilize the symbols below to allow the reader to recognize important information about their safety

A DANGER	A CAUTION
Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.	indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury
A WARNING Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury	CAUTION When used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.

Important Safety Instructions and Guidelines

Save all instructions

A WARNING

Improper operation or maintenance of this product could result in serious injury and/or property damage. Read and understand all of the warnings and safety instructions provided before using this equipment,

CAUTION	The air compressor should be operated on a dedicated 15 amp circuit. If the circuit does not have 15 free amps available, a larger circuit must be used. Always use more air hose before utilizing extension cords. All extension cords used must be 12 gauge with a maximum length of 25 ft. The circuit fuse type must be a time delay. Low voltage could cause damage to the motor.
Risk of Moving Parts	If the air compressor is in operation, all guards and covers should be attached or installed correctly. If any guard or cover has been damaged, do not operate the equipment until the proper personnel has correctly repaired the equipment. The power cord should be free of any moving parts, twisting and/or crimping while in use and while in storage.
Risk of Burns	There are surfaces on your air compressor that while in operation and thereafter can cause serious burns if touched. The equipment should be allowed time to cool before any maintenance is attempted. Items such as the compressor pump and the outlet tube are normally hot during and after operation.
Risk of Failing	Operation of the air compressor should always be in a position that is stable. Never use the air compressor on a rooftop or elevated position that could allow the unit to fall or -be tipped over. Use additional air hose for elevated jobs.
Risk from Flying Objects	Always wear ANSI Z87.1 approved safety glasses with side shields when the air compressor is in use. Turn off the air compressor and drain the air tank before performing any type of maintenance or disassembly of the hoses or fittings. Never point any nozzle or sprayer toward any part of the body or at other people or animals.

Important Salety Instructions & Guidelines

Risk to Breathing	Avoid using the air compressor in confined areas. Always have adequate space (12 inches) on all sides of the air compressor. Also keep children, pets, and others out of the area of operation. This air compressor does not provide breathable air for anyone or any auxiliary breathing device. Spraying material will always need to be in another area away from the air compressor to not allow intake air to damage the air compressor filter.
Risk of Electrical Shock	Never utilize the air compressor in the rain or wet conditions. Any electrical issues or repairs should be performed by authorized personnel such as an electrician and should comply with all national and local electrical codes. The air compressor should also have the proper three prong grounding plug, correct voltage, and adequate fuse protection.
Risk of Explosion of the	Never operate the compressor near combustible materials, gasoline or solvent vapors. If spraying flammable materials, locate the air compressor at least 20 feet away from the spray area. Never operate the air compressor indoors or in a confined area
Risk of Bursting	Always drain the air compressor tank daily or after each use. If the tank develops a leak, then replace the air compressor. Never use the air compressor after a leak has been found or try to make any modifications to the tank. Never modify the air compressor's factory settings which control the tank pressure or any other function.

Specifications

Pump	,Oil-lube direct drive .
Motor Induction	
	1HP running
Bore	.1.65"
Stroke	.1,26"
Voltage Single Phase	120 VAC

<u> </u>		
G	ossa	ary

- CFM: Cubic feet per minute.
- SCFM: Standard cubic feet per minute; a unit of measure for air delivery.
- PSIG: Pounds per square inch gauge; a unit of measure for pressure.
- ASME: American Society of Mechanical Engineers.
- California Code: Unit may comply with California Code 462 (i) (2)/ (M) (2).
- Cut-In Pressure: The air compressor will automatically start to refill the tank when the pressure drops below the prescribed minimum

Minimum Circuit Requirement	.15 Amps
Air Tank Capacity	3 Gallons
Cut-in Pressure	.95 PSI
Cut-out Pressure	.125 PSI
SCFM @ 90 PSI	.2.4

- Cut-Out Pressure: The point at which the motor stops when the tank has reached maximum air pressure.
- Code Certification: Products that bear one or more of the following marks: UL, CUL, ETL, CSA, have been evaluated by OSHA-certified independent safety laboratories and meet the applicable Underwriters Laboratories Standards for Safety -

Duty Cycle

This is a 50% duty cycle air compressor. Do not run the air compressor more than 30 minutes of one hour. Doing so could damage the air compressor.

Parts & Features

See figures below for reference.

Air Intake Filter

Provides clean air to the pump and must always be kept free of debns. Check on a daily basis or before each use.



Installation & Assembly

A WARNING

The air compressor should be turned off and unplugged from the power source before any maintenance is performed as well as the air bled from the tank and the unit allowed time

to cool. Personal Injunes could occur from moving parts, electrical sources, compressed air or hot surfaces. The

regulator assembly must be attached before use. Failure to assemble correctly could result in leaks and possible injury It unsure of assembly instructions or you experience difficulty in the assembly please call your local service department for further Instruction.

Quick Connect Assembly

1. Before assembly be sure that the Quick Connect (Q C,) threads have a sealant applied from the factory to prevent leaks around the threads. If no sealant is present, wrap the threaded portion with Teflon tapa.



- 2 Remove the regulator's plastic plug. Attach the O.C. assembly to the air compressor by aligning the O.C. threads to the regulator on the manifold. Be certain to align the threads before tightening to prevent thread damage
- 3. After hand tightening, the assembly should be turned clock wise 1 to 1,5 revolutions with a 13/16the size wrench. To prevent damage and leaks, do not over-tighten

To Install the Air Inteke Filter

Remove the plastic plug from the compressor head. Remove the air intake filter from the poly bag and thread it onto the head of the compressor as shown,



Do not attempt to start the air compressor

without first adding oil to the crankcase. Serious damage can result unless filled with oil The pump is shipped without oil from the factory. Only use non-detergent oils since multi-viscosity motor oils leave carbon deposits on pump components, thus reducing performance and compressor life,

🛦 WARNING

A CAUTION

Drain the tank to release all tank air

pressure before removing the oil fill cap. Be sure the air vent in the oil fill cap (see figure to the right) is free from debris. If air vent is blocked, pressure can build in crankcase causing damage to the compressor and possible personal injury.



Remove the oli fiil cap by turning it counter-clockwise by hand. Fill the

compressor pump with an air compressor oll such as SAE-30 non-detergent (API CG/CD Heavy Duty) oll at slow intervals until the oil reaches the center of the red circle in the sight glass (see figure above). Use SAE-10 during extreme winter conditions.



Location of the Air Compressor

The air compressor should always be located in a clean, dry, and well ventilated environment. The unit should have at minimum, 12 inches of space on each side. The air filter intake should be free of any debns or obstructions. Check the air filter on a daily basis to be sure it is clean and in working order

Grounding instructions

This product should be grounded. In the event of an electrical short circuit, grounding reduces the risk of electric shock by providing an escape wire for the electric current. This product is equipped with a cord having a grounding wire with an appropriate grounding plug. (See the figure below) The plug must be plugged into an outlet that is properly installed and grounded in accordance with all local codes and ordinances. Check with a qualified electrician or service

personnel if these instructions are not completely understood or If in doubt as to whether the tool is properly grounded A WARNING



Improper installation of the grounding plug will result in a risk of electric shock. If repair or replacement of the cord or plug is necessary, do not connect the grounding wire to either flat blade terminal. The wire with insulation having an outer surface that is green with or without yellow stripes is the grounding wire Check with a qualified electrician or servicemen if the grounding instructions are not completely understood, or if m doubt as to whether the product is properly grounded. Do not modify the plug provided, if it will not fit the outlet, have the proper outlet installed by a qualified electrician.

This product is for use on a circuit having a nominal rating of 120 volts and is factory-equipped with a specific electric cord and plug to permit connection to a proper electric circuit. Make sure that the product is connected to an outlet having the same configuration as the plug. No adapter should be used with this product. If the product must be reconnected for use on a different type of electric circuit, qualified service personnel should make the reconnection,

Extension Cords

Use only a 3-wire extension cord that has a 3-blade grounding plug, and a 3-sict receptacle that will accept the plug on the product. 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. Cords must not exceed 25 feet and No. 12 AWG size must be used An undersized cord will cause a drop in line voltage resulting in loss of power and overheating.

Break in Procedures

No break in procedure is required by the user. This product is factory tested to ensure proper operation and performance

Operating Procedures

Daily Start-Up Procedures

- ① Set the Auto-On/Off lever to the Off position.
- ② Check the air compressor visually for any damage or obstruction.
- ③ Close the drain valve.
- (4) Check the oil level of the pump
- Connect the air hose to the quick connect socket on the regulator assembly by inserting the quick connect plug on the air hose into the quick connect socket. The quick connect socket collar will snap forward and lock the plug into place providing an air tight seal between the socket and plug. To release the air hose push the collar back on the quick connect socket.
- 6 Plug the power cord into the proper receptacle

- Turn the Auto-On/Off lever to the On-Auto position and the compressor will start and build air pressure in the tank to cut-out pressure and then shut off automatically
- Adjust the regulator to a PSI setting that is needed for your application and be sure it is within the safety standards required to perform the task. If using a pneumatic tool, the manufacturer should have recommendations in the manual for that particular tool on operating PSI settings.
- Note: The air compressor is now ready for use. The following inflation and cleaning accessories packaged with this unit should only be operated at maximum pressure of 20-30 PSI: blow gun, tapered nozzle, inflation needles, blow gun adapter.



Daily Shut-Down Procedures

- 1. Set the Auto-On/Off lever to the Off position
- 2. Unplug the power cord from the receptacle.
- 3. Set the outlet pressure to zero on the regulator.
- 4. Remove any air tools or accessories. When draining the tank, always use ear and eye protection. Drain the tank in a suitable location; condensation will be present in most cases of draining.
- Open the drain valve allowing air to bleed from the tank. After all of the air has bled from the tank, close the drain valve to prevent debris buildup in the valve.

A CAUTION

When draining the tank, always use ear and eye protection. Drain the tank in a suitable location; condensation will be present in most cases of draining.

A WARNING

Water that remains in the tank during storage will corrode and weaken the air tank which could cause the tank to rupture. To avoid senous injury, be sure to drain the tank after each use or daily.

Maintenance

NOTE: Any service procedure not covered in the maintenance schedule below should be performed by qualified service personnel.

Items to Check/Change	Before each use or daily	After first 10 hours	Every 100 hours
Check Tank Safety Valve	x		
Overall Unit Visual Check	X		
Check Oil Level	Х		
Change Oil		X	X
Check Air Filter (more frequently in dusty or humid environments)	X		
Drain Tank (after each use or daily)	X		

A CAUTION

To ensure efficient operation and longer life of the air compressor unit, a routine maintenance schedule should be followed. The following schedule is geared toward a consumer whose compressor is used in a normal working environment on a daily basis. If necessary, the schedule should be modified to suit the conditions under which your compressor is used. The modifications will depend upon the hours of operation and the working environment. Air compressors used in an extremely dirty and/or hostile environment will require a greater frequency of all maintenance checks.

A WARNING

The air compressor should be turned off and unplugged from the power source before any maintenance is performed as well as the air bled from the tank and the unit allowed time to cool Personal injuries could occur from moving parts, electrical sources, compressed air or hot surfaces.

Oil Changing

For changing the pump oil, be sure to do the following:

- Turn the unit off and unplug the power cord from the receptacle.
- Allow the compressor time to cool if it has been in operation.
- 3 Open the drain valve to bleed all air from the tank.
- 4 Close the drain valve.
- 5. Remove the oil fill cap on the pump.
- 6 Remove the sight glass with a box end wrench or socket. Drain the oil into a suitable container and dispose of properly. The compressor may need to be tipped slightly towards the drain hole to allow all of the oil to drain.

Storage

For storing the air compressor, be sure to do the following

- Turn the unit off and unplug the power cord from the receptacle.
- 2 Remove all air hoses, accessories, and air tools from the air compressor.
- 3. Perform the daily maintenance schedule.

- Reattach the sight glass Note: Torque the sight glass 10-12 inch lbs, when re-assembling. Be sure the gasket is between the sight glass and the pump crankcase.
- Refill the compressor pump with an air compressor oll such as SAE-30 non-detergent (API CG/CD Heavy Duty) oil at slow intervals until the oil reaches the center of the red circle in the sight glass. Use a SAE-10 during extreme winter conditions.

- 4. Open the drain valve to bleed all air from the tank
- 5. Close the drain valve.
- 6. Store the air compressor in a clean and dry location.

Troubleshooting Guide

A WARNING The air compressor should be turned off and unplugged from the power source before any maintenance is performed as well as the air bled from the tank and the unit allowed time to cool Personal injuries could occur from moving parts, electrical sources, compressed air, or hot surfaces

POSSIBLE CORRECTION
A defective check valve results in a constant air leak at the pressure relief valve when there is pressure in the tank and the compressor is shut off. Drain the tank, then remove and clean or replace the check valve
Be sure of proper torque on head bolts. If leak remains, contact a service technician.
Operate the safety valve manually by pulling on the ring. If the valve continues to leak when in the closed position, it should be replaced.
If there is an excessive amount of pressure drop when the accessory is used, replace the regulator. NOTE: Adjust the regulated pressure under flow conditions (while accessory is being used). It is normal for the gauge to show minimal pressure loss during initial use of the tool.
Move the Auto-On/Off lever to the Off position. If the unit doesn't shut off, unplug it from the power source and contact a service technician.
Make sure power cord is plugged in and the switch is on. Inspect for the proper size fuse in your circuit box. If the fuse was tripped, reset it and restart the unit. If repeated tripping occurs, replace the check valve or contact a service technician,
Remove the water in the tank by draining after each use. High humidity environments will cause excessive condensation. Utilize water filters on your air line.
NOTE: Water condensation is not caused by compressor malfunction. Be sure the compressor's air output is greater than your tool's air consumption rate.
Never drill into, weld or otherwise modify the air tank or it will weaken. The tank can rupture or explode Compressor cannot be repaired. Discontinue use of the air compressor,

Craftsman Air Compressor Model 921.153101 Parts List



Craftsman Air Compressor Model 921.153101 Parts List

Reference Number	Kit Number	Part Number	Description	Quantity	Reference Number	Kit Number	Part Number	Description	Qu	antity
1	1	E100434	Intake Fitter Housing,	1	41			Ferrule, Compress	Non, 1/4 inch	2
			1/2 NPT		42		E100957	Pressure Switch		1
2	1	E100435	Filter Element	1	43		E100594	Strain Relief		2
3			Screw, Socket Head,	4	44		E100205	Pressure Gauge, 2	2" 200PS	1
			M6 x 1.0 x 30mm		45		E100093	Pressure Gauge.		1
4		_	Lock Washer, 6mm	6	46		E100094	Safety Valve		1
5		E100227	Cylinder Head	1	47		E100059	Regulator		1
6		E100809	Exhaust Elbow	1	48		E100307	Coupler, Quick col	nnect	1
7	2		Gasket, Head	1	49		E100595	Nipple, 1/4"NPTx2		1
8		E100228	Valve Plate	2	50		E100853	Nipple, 1/4"NPTx3		1
9		E100229	Valvé Reed	2	51		E100958	Outlet Tube		1
10	2		Gasket, Valve Plate	1	52			Nut, Compression,	3/8 unch	2
11	2		Gasket, Cylinder Upper	1	53			Ferrule, Compress		2
12			Cylinder, ID42mm x H65mm	1	54		E100097	Grip, Handle		1
13			Screw, Socket Head,	5	55		E100081	Tank		4
			M6 x 1.0 x 20mm		56		E100098	Drain Valve, 1/4"N	ът	4
14	2		Gasket, Cylinder Lower	1	57		E100898	Check Valve	F I	1
15	3		Ring, Compression	2		~	E100090			-
16	3		Ring, Scraper	1	58	6		Flat Washer, 8mm		12
17	3		Pieton	1	59	6		isolator, Rubber		4
18	3		Piston Pin	1	60	6		Screw, Hex Head, M8 x 1.25 x 25mm		4
19	3		Snap Ring, 12mm	2	61	6			-	8
20	3		Rod Connecting	1	-	0	Exchang	Washer, Lock, 8m		•
21	3		Nut, M6x1.0	1	62		E100101	Power Cord 14/3)		
22	3		Eccentric	1	63			Screw, Socket Hei M8 x 1.25 x 16mm		4
23	4		Oil Fill Cap	1	64		E101103			4
24	4		O Ring, OD17mm x 2mm		Not Show		E101193	Plug, Plastic, for H		4
25	-		Cover, Crankcase	1	Not Show		E100110	Label, Drain Tank		
26		E101000	Screw, Hex Flange Head,	4			E100730	Label, Specificatio		81
20		6101000	M5 x 0.8 x 15mm	-	Not Show		E100859	Label, Warning Bil		1
27	5		Seal, Oil Sight Gauge	1	Not Show	n	E101176	Manual, Operators	yrang	1
28	5		Gauge, Oil Sight	1						
29	2		Baffie, Rubber	1				ithout a number is not		
30	6		Nut, MBx1.25	10				rence only. The Kit #		
31	0		Washer, Tooth Lock, 5/16 Inc				fiered is avail	able in a kit. One of e	ach parl per ki	it will
32			Screw, Round Head, Phillips, M3 x 0.5 x 6mm		be offered					
20				4	Kit numbe	r and part	s that are incl	uded are as follows:		
33		E100040	Washer, Lock, 3mm		ł					
34		E100248	Capacitor, Starting (200µF)	1	Kit No.	Part No	. Descr	lption	Reference N	lo.
35		E100247	Capacitor, Running (40µF)	1	1	E10079	4 Intake	Filter Kit -	1, 2	
38			Motor	1	2	E10095			7, 10-11, 14,	. 29
37		E100955	Shroud	1	3	E10025		Kit	15-22	
38		E100854	Screw, Hex Flange Head,	6	4	E10008		Cap w/O-ring	23-24	
		Presser	M5 x 0.8 x 10mm	-	5	E10008		ght Gauge w/O-ring	27-28	
39		E100956	Pressure Relief Tube	1	6	E10010	-		30, 55-57	
40			Nut, Compression, 1/4 inch	2	Ī		- preserv			