Owner's Manual

CRAFTSMAN®

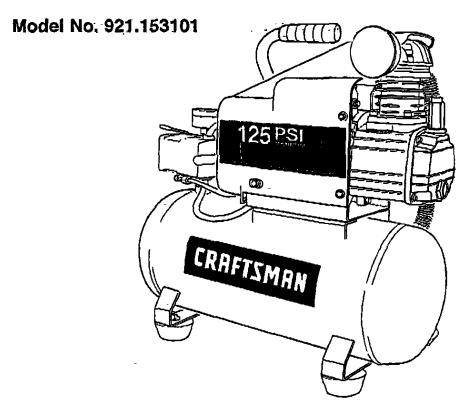
AIR COMPRESSOR

3-gallon

1.5 HP (max developed)

1 HP Running

Oil Lubricated



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
- · Español, p. 10

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 leavy 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 air

compressor. We utilize the symbols below to allow the reader to recognize important information about their safety

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. A WARNING Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate 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 Falling	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.

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 or che



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

Glossary

CFM: Cubic faet 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.

Cut-Out Pressure: The point at which the motor stops

when the tank has reached maximum air

pressure.

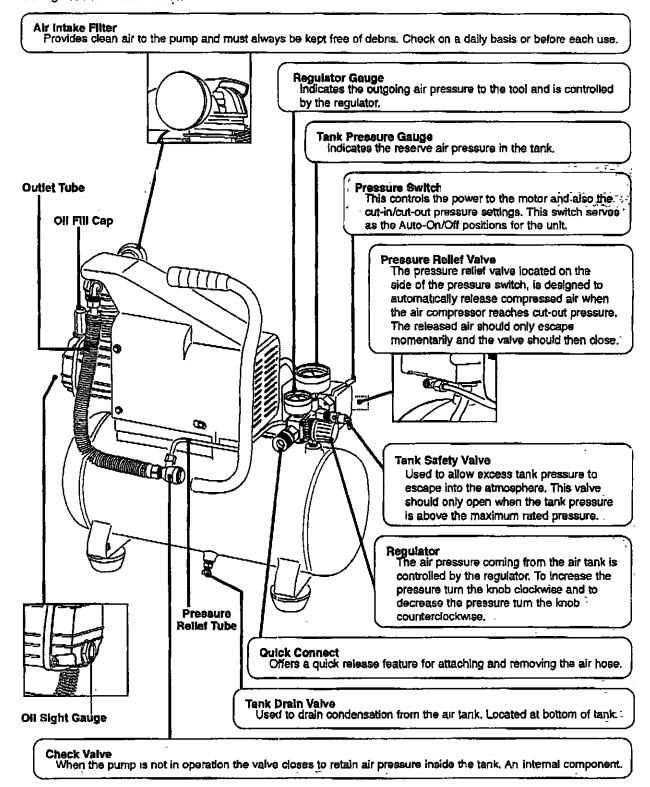
Code Certification: Products that bear one or more of the following marks: UL, CUL, ETL, CSA, have been evaluated by OSHA-certified independent safety laboratories and meet the applicable Underwriters Laboratories Standards for Safety

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.



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 Injuries 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 if unsure of assembly instructions or you experience difficulty in the assembly please call your local service department for further instruction.

Quick Connect Assembly

- 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 tabe.
- 2 Remove the regulator's plastic plug. Attach the O.C. assembly to the eir 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
- 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 Intake 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.

the compressor and possible personal injury.

A CAUTION

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 file.

▲ WARNING

Drain the tank to release all tank alr 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

Lubrication and Oil

Remove the oil fill cap by turning it counter-clockwise by hand. Fill the compressor pump with an air compressor oil such as SAE-30 non-detergent (API CG/CD Heavy Duty) oil at allow 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.

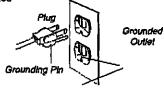
Location of the Air Compressor

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 debris 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 in 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-slot 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. Corde must not exceed 25 feet and No. 12 AWG aize 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

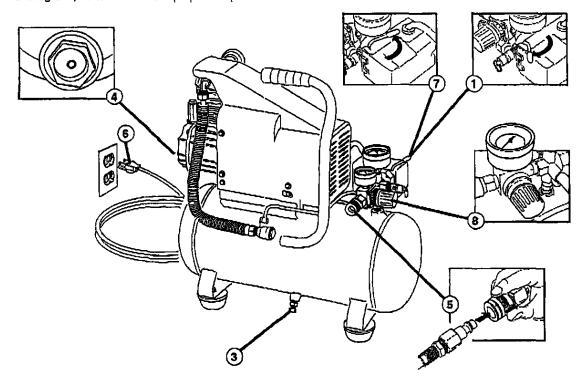
Operating Procedures

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
- ⑤ 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 out-out pressure and then shut off automatically
- (B) 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.
- Remove any air tools or accessories. When draining the tank, always use ear and eye protection. Drain the tank in a sultable 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	х		
Overall Unit Visual Check	Х		
Check Oil Level	X		
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 sult 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.

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.

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.

- 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.
- 8. Refill the compressor pump with an air compressor oil 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.

Storage

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

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

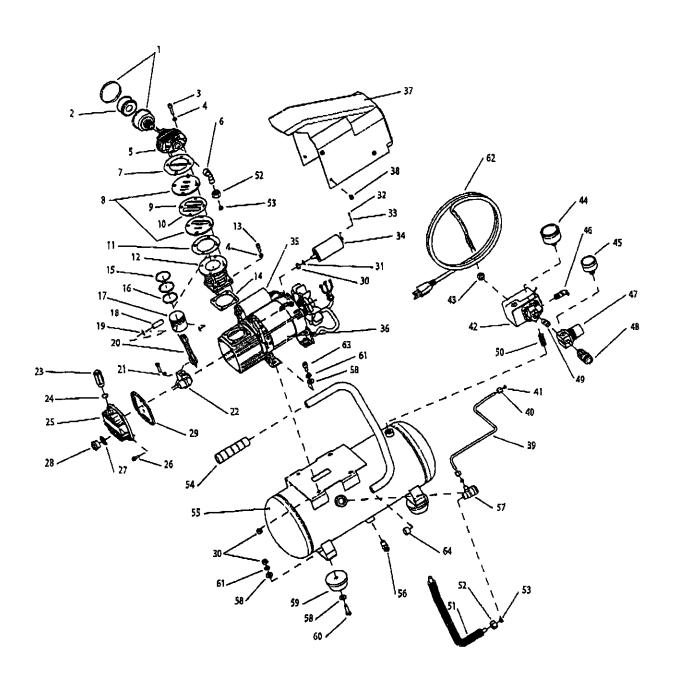
Troubleshooting Guide

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

PROBLEM	POSSIBLE CORRECTION					
Air leaks at the check valve or at the pressure relief valve.	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					
Air leaks between head and cylinder.	Be sure of proper torque on head bolts. If leak remains, contact a service technician.					
Air leak from safety valve.	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.					
Pressure reading on the regulated pressure gauge drops when an accessory is used.	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.					
Excessive tank pressure.	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.					
Motor will not start.	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,					
Excessive moisture in the discharge eir.	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.					
Air leaks from the tank body or tank welds	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

	Number	Part Number	Description	Quantity	Reference Number	Kit Number	Part Number	Description	О́п	antity
1	1 E100434 Intake Filter Housing,		1	41		- - -	Ferrule, Compres	elon, 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,	2º 200PS	1
			M6 x 1.0 x 30mm		45		E100093	Pressura Gauge.		1
4		_	Lock Washer, 6mm	8	46		E100094	Safety Valve		1
5		E100227	Cylinder Head	1	47		E100059	Regulator		1
6		E100809	Exhaust Elbow	1	48		E100307	Coupler, Quick co	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	Valve Reed	2	51		E100958	Outlet Tube		1
10	2		Gasket, Valve Plate	1	52			Nut, Compression	. 3/8 inch	2
11	2		Gasket, Cylinder Upper	1	53			Fermia, Compres		2
12			Cylinder, ID42mm x H65mm	1	54		E100097	Grip, Handle	01011, 000 111011	1
13			Screw, Socket Head,	5	55		2,00001	Tank		4
			M6 x 1.0 x 20mm		56		E100098	Drain Valve, 1/4"N	TEL	•
14	2		Gaaket, Cylinder Lower	1	57		E100898	Check Valve	4 1	i
15	3		Ring, Compression	2	58	6	E 100030	Flat Washer, Brnir	,	12
16	3		Ring, Scraper	1	59	6		isolator, Rubber		12
17	3		Piston	1	60	6		Screw, Hex Head		À
18	3		Piston Pin	1	. ∾	•		M8 x 1.25 x 25mr		4
19	3		Snap Ring, 12mm	2	61	6		Washer, Lock, 8rr		8
20	3		Rod Connecting	1	62	·	E100101	Power Cord 14/3		1
21	3		Nut, M6x1.0	1	63		Clouis	Screw, Socket He		4
22	3		Eccentric	1	1 00			MB x 1,25 x 16mr		7
23	4		Qii Fili Cap	1	64		E101193	Plug, Plastic, for I		4
24	4		O Ring, OD17mm x 2mm	1	Not Shown		E100110	Label, Drain Tank		4
25			Cover, Crankcase	1	Not Show	-	E100730	Label, Specification		a f
26		E101000	Screw, Hex Flange Head,	4	Not Show		E100859	Label, Warning B		4
			M5 x 0,8 x 15mm		Not Show		E101176	Manual, Operator		1
27	5		Seal, Oil Sight Gauge	1	1405 0104	11	FIGURE	migrical, Operator	area te	,
28	5		Gauge, Oil Sight	1	Note: Any	nortfet n	ımbar fiald mi	ithout a number is no	oldeksva t	
29	2		Baffle, Rubber	1				rence only. The Kit i		aanta
30	6		Nut, MBx1.25	10				lable in a kit. One of		
31			Washer, Tooth Lock, 5/16 inc		pe offered		HOLOG IS EAST!	ISDIA ILI 4 KIP OHA OL	each pair pei k	II AAM
32			Screw, Round Head, Phillips, M3 x 0.5 x 6mm			-				
33			Washer, Lock, 3mm	4	Kit numbe	r and part	s that are incl	luded are as follows:		
34		E100248	Capacitor, Starting (200µF)	1	1		_			_
35		E100247	Capacitor, Flunning (40µF)	1	Kit No.	Part No			Reference N	io.
38		(- VE)	Motor	1	1	E10079		Filter Kit	1, 2	
37		E100955	Shroud	1	2	E10095			7, 10-11, 14	. 29
38		E100955	Screw, Hex Flange Head,	6	3	E10025			15-22	
30		- 10000A	M5 x 0.8 x 10mm	v	4	E10008		i Cap w/O-ring	23-24	
					5	£10008	8 Oil Sid	ght Gauge w/O-ring	27-28	
39		E100956	Pressure Relief Tube	1		E10010			30, 55-57	