

Please carefully read and save these instructions before attempting to assemble, maintain, install, or operate this product. Observe all safety information to protect yourself and others. Failure to observe the instructions may result in property damage and/or personal injury. Please keep instructions for future reference.

## Important Operating Instructions



# 2 GALLON AIR COMPRESSOR

Model: 7517

DO NOT RETURN TO STORE. Please CALL 800-348-5004 for parts and service.

### CALIFORNIA PROPOSITION 65 WARNING:

You can create dust when you cut, sand, drill or grind materials such as wood, paint, metal, concrete, cement, or other masonry. This dust often contains chemicals known to cause cancer, birth defects, or other reproductive harm. Wear protective gear.

**WARNING:** This product or its power cord may contain chemicals, including lead, known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

### CAUTION:

**FOR YOUR OWN SAFETY  
READ INSTRUCTION MANUAL  
COMPLETELY AND  
CAREFULLY BEFORE  
OPERATING THIS**

**AIR COMPRESSOR. Failure to follow all instructions as listed below may result in electrical shock, fire, and/or serious personal injury.**

### Specifications:

**Running Horsepower:** 1/3 HP  
**CFM @ 40PSI:** 1 CFM  
**CFM @ 90PSI:** .5 CFM  
**Voltage - Single Phase:** 120 V  
**Motor RPM:** 2900 RPM  
**Amperage:** 2.6 amp  
**Tank Size:** 2 Gallon

### SAFETY WARNINGS

**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. 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 have 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 of 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

For warranty purchases, please keep your dated proof of purchase. File or attach to the manual for safekeeping.

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 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 (30 cm) 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 use 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 fire:** Never operate the compressor near combustible materials, gasoline, or solvent vapors. If spraying flammable materials, locate the air compressor at least 50m 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 tried to make any modifications to the tank. Never modify the air compressor's factory settings which control the tank pressure or any other function.

## **PARTS AND FEATURES**

**Drain Valve:** Used to drain condensation from the air tank. Located on bottom of tank.

**Motor Thermal Overload:** The motor has an automatic thermal overload protector. If the motor overheats, this protector will shut off the motor. The motor must be allowed 30 minutes to cool before restarting.

**Quick Connect:** Offers a quick release feature for attaching and removing the air hose.

**Air Compressor Pump:** Oil free direct driven pump that compresses air, which is distributed to the tank.

**Check Valve:** When the pump is not in operation the valve closes to retain air pressure inside the tank.

**Tank Safety Valve:** Used to allow excess tank pressure to escape into the atmosphere. This valve should only open when the tank pressure is above the maximum rated pressure.

**Outlet Pressure Gauge:** Indicates the outgoing air pressure to the tool and is controlled by the regulator.

**Tank Pressure Gauge:** Indicates the reserve air pressure in the tank.

**Regulator:** The regulator controls the air pressure coming from the air tank. To increase the pressure, turn the knob clockwise and to decrease the pressure to turn the knob counterclockwise.

## **INSTALLATION AND ASSEMBLY**

### **Lubrication and Oil**

This compressor requires no lubrication or oiling. No break in procedures is required by the user. This product is factory tested to ensure proper operation and performance.

### **Location of the Air Compressor**

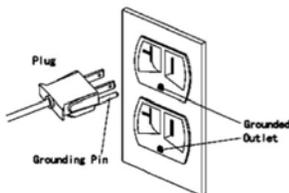
The air compressor should always be located in a clean, dry, and well-ventilated environment. The unit should have a minimum of 30 cm of space on each side. The air filter intake should be free of any debris or obstructions. Check the air filter on a daily basis to be sure it is clean and in working order.

## 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. 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 loss of power and overheating.

## 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. The plug must be plugged into an outlet that is properly installed and grounded in accordance with all local codes and ordinances (see Figure below). 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.



**WARNING: Improper installation of the grounding plug can 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 serviceman 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.**

## ASSEMBLY INSTRUCTIONS

**CAUTION:** Always make sure the compressor is turned OFF before performing any service, maintenance, or cleaning of the compressor.

1. Install the handle by removing the screw and positioning the handle in place. Re-install the screw and tighten securely.

2. Install air-flow valve in pressure regulator. **Note:** Use sealing tape or silicon thread compound on air-flow valve threads to prevent air leaking. Connect the 1/4" female connector to the air flow valve. Remember to use the sealing tape.

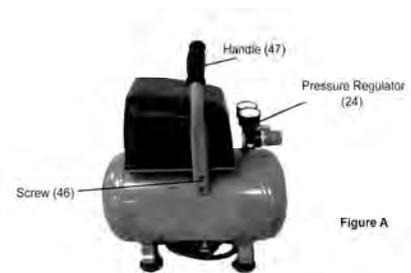


Figure A

## HOSE CONNECTION

Attach an air hose to the compressor's air outlet (air-flow valve) with the 1/4" female connector already attached. Then set the desired pressure to operate your tool. Next, connect the air hose to the air inlet of the tool. Use sealing tape for best air tight connections.

## OPERATING INSTRUCTIONS

### To start the compressor:

1. Check to make sure the air tank drain valve, located at the bottom of the air tank, is fully closed.

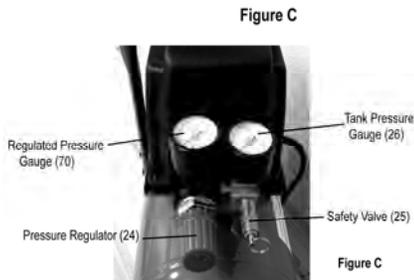


Figure B

2. Plug the power cord into the nearest 120V, grounded, electrical outlet.

3. Turn the compressor ON by depressing the ON side of the ON/OFF of the power switch.

## To adjust the air regulator:



1. With the supplied air-flow valve attached to the pressure regulator and the valve handle in the OFF position, turn the compressor ON. When the maximum air pressure, 100 PSI, is reached as indicated by the tank pressure gauge, the motor will stop.

2. Turn the pressure regulator knob to adjust the pressure regulator. Turn the pressure regulator knob counterclockwise to decrease the PSI, turn it clockwise to increase the PSI. (Do not exceed 100 PSI) When the regulated pressure gauge shows the pressure that you want to limit the compressor to, the pressure regulator is set.

3. Between the pressure regulator knob and the valve body, a narrow ring acts as a lock-ring for the knob. Rotate the ring in a counterclockwise direction and tighten it against the knob to secure the setting.

4. Attach hose to the air-flow valve, then tool to hose. Turn on the air-flow valve to supply air pressure shown on gauge to the tool.

**NOTE:** When the maximum air pressure, 100 PSI, is reached as indicated by the tank pressure gauge, the motor will stop. The compressor will automatically restart when the air pressure drops below 85 PSI.

## To stop the compressor:

1. Push the ON/OFF power switch to the OFF position.

2. Turn air-flow valve to OFF. Press trigger on tool to relieve air pressure in hose. Disconnect hose from air-flow valve.

3. Relieve the air tank pressure and remove moisture by opening the tank drain valve. Turn the valve slowly counterclockwise until the pressure is relieved. Then, retighten the drain valve.

4. Allow the air compressor to completely cool. Then store the unit in a clean, dry, safe location out of the reach of children.

## INSPECTION, MAINTENANCE, & CLEANING

1. **WARNING:** Make sure the compressor is OFF, the unit is unplugged from its electrical outlet, and the air is drained from the tank before performing any inspection, maintenance, or cleaning procedures or leaving it unattended.

2. Before each use, inspect the general condition of the air compressor. Check for loose screws, misalignment, or binding of moving parts, cracked or broken parts, damaged electrical wiring, loose

air fittings, and any other condition that may affect the safe operation of the compressor. If abnormal noise or vibration occurs, have the problem corrected before further use. **Do not use damaged equipment.**

3. Daily, purge the air tank of all air and moisture to prevent corrosion. To do so, slowly and carefully unscrew (no more than four threads) the tank drain valve until the compressed air and condensation begins to be released from the tanks. Allow sufficient time for all of the air and condensation to escape from the tank. Then, firmly re-tighten the drain valve.

4. To replace fuse, unscrew the fuse and replace with a 250V, 3A fuse.

5. **Caution:** All maintenance, service, or repairs not mentioned in this manual should only be performed by a qualified service technician.

# Troubleshooting

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<b>Problem</b>	<b>Possible Cause</b>	<b>Solution</b>
Compressor will not start	Blown Fuse	Replace Fuse
	Loose Electrical Connections	Make sure compressor is plugged into a working 120V, grounded, electrical outlet
Low pressure	Defective pressure controller	Have a qualified service technician replace pressure controller
	Air leak in safety valve	Replace safety valve
	Drain valve not fully closed	Close drain valve
Safety valve releasing	Defective safety valve	Replace safety valve
Pressure switch will not turn off compressor at 100 PSI	Defective pressure switch	Immediately unplug compressor from its electrical outlet. Do not operate compressor until a qualified service technician can replace pressure switch.

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## **Limited Manufacturer Warranty**

*North American Tool Industries (NATI) makes every effort to ensure that this product meets high quality and durability standards. NATI warrants to the original retail consumer a 1-year limited warranty from the date the product was purchased at retail and each product is free from defects in materials. Warranty does not apply to defects due directly or indirectly to misuse, abuse, negligence, or accidents, repairs or alterations, or a lack of maintenance. NATI shall in no event be liable for death, injuries to persons or property, or for incidental, special, or consequential damages arising from the use of our products. To receive service under warranty, the original manufacturer part must be returned for examination by an authorized service center. Shipping and handling charges may apply. If a defect is found, NATI will either repair or replace the product at its discretion.*

## **DO NOT RETURN TO STORE**

For Customer Service:

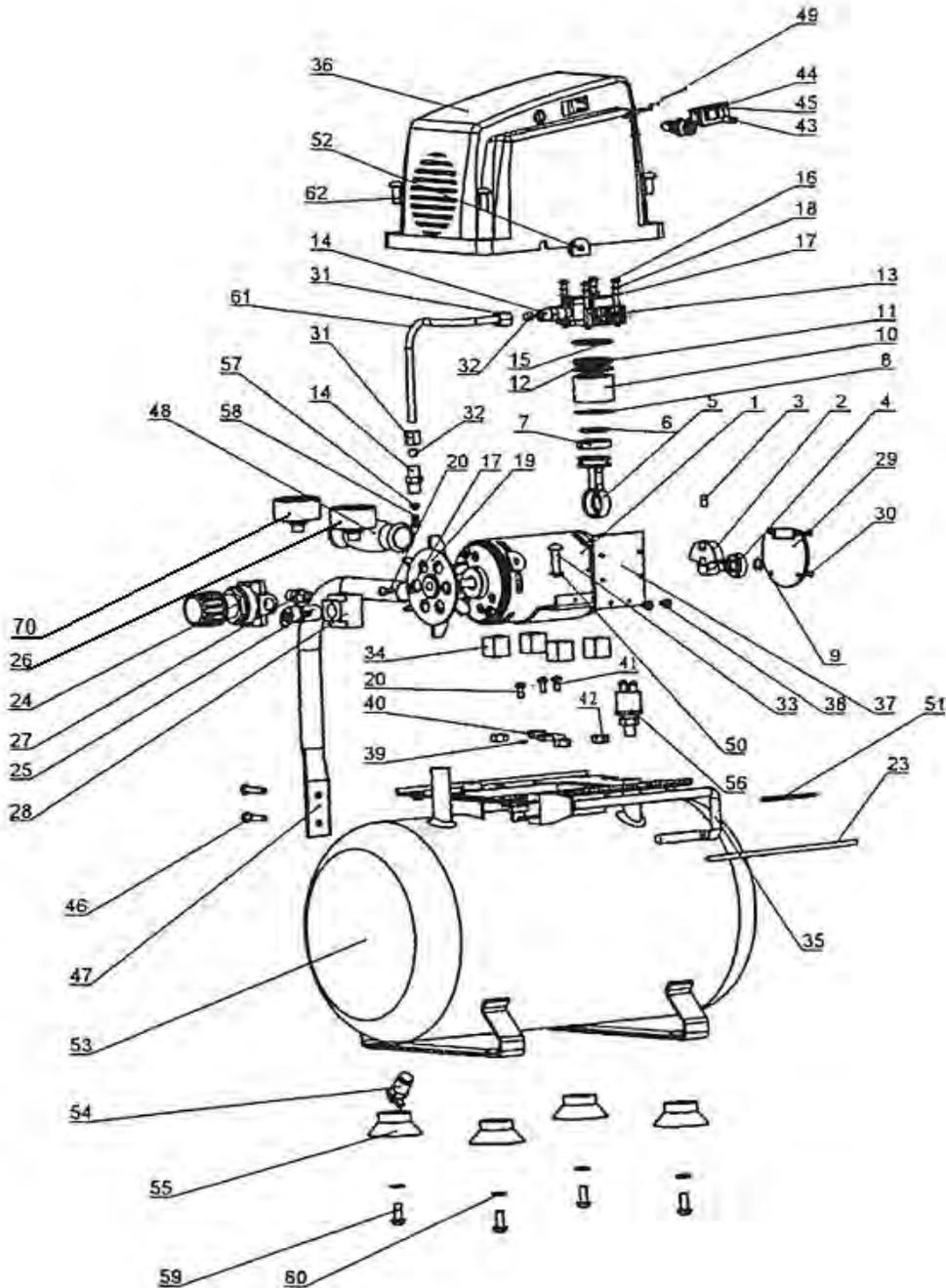
Email: [feedback@natitools.com](mailto:feedback@natitools.com) or Call 1-800-348-5004



# 2 GALLON AIR COMPRESSOR

MODEL: 7517

## Parts List



**Call 1-800-348-5004 for assistance or replacement parts**

Please provide the following information:

- Model number
- Part description and number as shown in parts list
- Serial number (if any)

Address any correspondence to:

North American Tool Industries  
 84 Commercial Rd  
 Huntington, IN 46750

Part #	Description	Qty	Part #	Description	Qty
1	Motor	1	35	Power Cord	1
2	Crank	1	36	Motor Cover	1
3	Screw	1	37	Circuit Board	1
4	Bearing (608-2RS)	1	38	Screw (M4 x 8)	2
5	Connecting Rod	1	39	Washer	1
6	Silica Gel Ring (21.2 x 2.5)	1	40	Wire Clip	1
7	Piston Ring	1	41	Screw (M4 x 15)	2
8	Paper Pad	1	42	Nut	4
9	Hoop	1	43	Fuse (3 Amp)	1
10	Cylinder	1	44	Fuse Box	1
11	Cylinder Washer	1	45	Power Switch	1
12	Silica Gel Ring (31 x 2)	1	46	Screw (M5 x 16)	2
13	Cylinder Head	1	47	Handle	1
14	Connector	2	48	Handle Soft Grip	1
15	Silica Gel Ring (31.5 x 1.8)	1	49	Cords	1
16	Screw (M4 x 40)	4	50	Flat Washer	1
17	Flat Washer	5	51	Zip Tie	1
18	Spring Washer	5	52	Rubber Sheath	1
19	Fan	1	53	Air Tank	1
20	Screw (M4 x 10)	1	54	Drain Valve	1
23	Tube	1	55	Rubber Foot	4
24	Pressure Regulator	1	56	Pressure switch	1
25	Safety Valve	1	57	Ball	1
26	Tank Pressure Gauge	1	58	Spring	1
27	Two-Way Valve	1	59	Screw (M6 x 15)	4
29	Muffler Board	1	60	Flat Washer	6
30	Screw (M3 x 6)	4	61	Copper Tube	1
31	Copper Connector Rod	2	62	Screw (M6 x 20)	4
32	Copper Hoop	2	70	Regulated Pressure Gauge	1
33	Screw (M6 x 25)	4	71	Air Flow Valve	1
34	Damping Pad	1	72	Female Nipple 1/4"	1