

# 1/8 HP Portable Piston Air Compressor

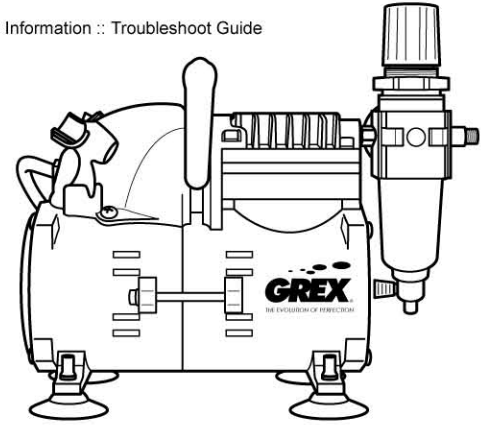
Model No. **AC1810-A / AC1810-B**



**CAUTION:** Before attempting to use or service this compressor, carefully read and understand all rules and instructions for safe operation.



**NOTE:** This manual includes safety warnings, operation instructions and tips on the maintenance and inspection of this compressor.



## SAFETY INSTRUCTIONS



**WARNING:** Improper operation or maintenance of this product could result in serious injury and property damage. Read and understand all warnings and operating instructions before using this equipment.



**CAUTION:** Read all safety warnings and maintenance instructions before operating equipment to prevent damage to equipment and/or property, and serious injury or death to the operator and/or bystanders.

### 1. Always wear protective equipment.

Safety glasses should be worn by the operator and others in the work area that provides both frontal and side protection to prevent eye injuries. Always wear other personal protective equipment such as hearing protection and hard hats.

### 2. Plug air compressor into a properly grounded outlet.

Electrical shock or electrocution may occur if air compressor is not operated properly. Make sure air compressor is plugged into a properly grounded outlet which provides correct voltage and adequate fuse. Never operate air compressor in wet conditions or outdoors when it is raining, or with safety guards/covers removed or damaged.

### 3. Check power cord for signs of crushing, cutting or heat damage.

Electrical shock may occur from electrical cord. Any repairs on air compressor should be done by an authorized personnel.

### 4. Keep flammable material away from the air compressor.

Always operate air compressor in a well ventilated area free of flammable vapors and combustible materials. Its contact with the normal electrical sparks in the motor and pressure switch may cause serious injury or death.

### 5. Never place objects against or on top of air compressor.

Operate air compressor at least 12 inches away from any wall or obstruction that would restrict proper ventilation. Serious injury or death may occur if any air compressor ventilation openings are restricted, as it causes compressor to overheat and catch on fire.

### 6. Keep body parts and materials away from exposed metal parts.

Contact with exposed metal parts can result in serious skin burns. Never allow any part of the body or other materials to make contact with any exposed metal parts during or immediately after operation of the compressor.

### 7. Never inhale air from the air compressor.

Serious injury or death can occur from inhaling compressed air. The air stream may contain carbon monoxide, toxic vapors or soil particles. Never inhale air from the air compressor either directly or from a breathing device connected to the air compressor.

### 8. Operate air compressor in a well ventilated area.

Sprayed materials such as paint, paint solvents, paint remover, insecticides, weed killer, etc. contain harmful vapors and poisons. Follow all safety instructions provided with the materials you are spraying. Use of a respirator may be required when working with some materials.

### 9. Always turn off air compressor when not in use.

The compressor cycles automatically when the motor switch is in the On/Auto position. Unplug compressor before performing maintenance or attaching tools or accessories. All repairs to the air compressor needs to be made by an authorized personnel. Moving parts can cause serious injury or damage if they come into contact with body or clothes.

### 10. Do not operate without protective covers/guards.

The compressor cycles automatically when motor switch is in the On/Auto position. Replace damaged covers/guards before using the air compressor. Moving parts can cause serious injury or damage if they come into contact with body or clothes.

### 11. Never point the air stream at any part of your body, or anyone else.

Always maintain a safe distance from individuals while operating the air compressor. The compressed air stream can cause soft tissue damage and can propel loose debris at a high speed, causing property damage or personal injury.

### 12. Never leave pressurized air compressor unattended.

**13. Shut off air compressor before attempting maintenance, attaching tools or accessories.**

**14. Use only parts and accessories supplied or recommended by GREX.**

Unauthorized parts or accessories may void your warranty and can lead to malfunction, resulting in injuries. Do not modify the air compressor without written approval from GREX.

## PREPARATION



**CAUTION:** Read safety instructions before setting up air compressor.

## LOCATION

Place air compressor in a clean, dry, and well-ventilated area. Air compressor should be placed on a firm, level surface and be at least 12 to 18 inches away from walls or obstacles that may prevent proper ventilation. Do not place materials on top of compressor that may obstruct ventilation openings for proper compressor operating temperature.

**DANGER:** Do not place air compressor where flammable gas vapors or materials may be present.

## ELECTRICAL



**DANGER:** Improper connection of the equipment-grounding conductor can result in a risk of electrical shock or electrocution. Do not use any type of adapter with this product.



**WARNING:** The air compressor must be grounded. In the event of a short circuit, grounding reduces the risk of shock by providing a path of least resistance for electric current. The air compressor is equipped with a cord having a grounding wire with an appropriate grounding plug. The plug must be plugged into an appropriate outlet (with the correct voltage) that is properly installed and grounded in accordance with all local codes and ordinances.

GREX does not recommend the use of extension cords. To avoid voltage drop, power loss, and over-heating of the motor, use an extra air hose rather than an extension cord.

### If use of an extension cord is unavoidable:

- 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 air compressor.
- 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). Do not use 14 AWG or 16 AWG.
- Always shut off the air compressor switch before removing the plug from the receptacle.

## OPERATING INSTRUCTIONS



**CAUTION:** Read safety instructions before operating air compressor.

## DAILY START-UP CHECKLIST

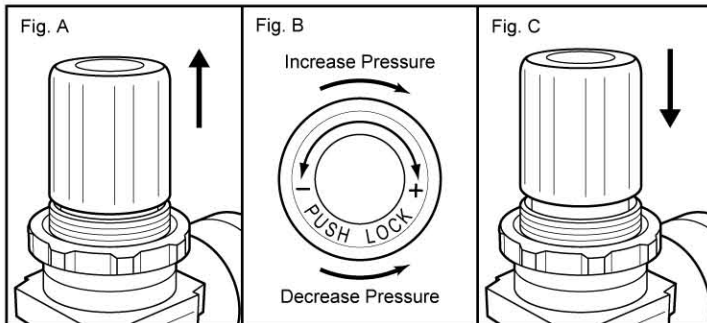
1. Make sure the air compressor motor switch is in the "OFF" position.
2. Make sure all nuts and bolts are snug.
3. Make sure all safety valves are working correctly.
4. Make sure all guards and covers are in place and securely mounted.

## START-UP

1. Before attaching air hose and accessories, make sure the motor switch is set to "OFF"
2. Attach hose and accessories.
3. Plug the power cord into a grounded outlet.
4. Switch motor "ON". Your compressor is ready for use.
5. If applicable, set pressure by adjusting the pressure regulator knob detailed in the following section titled "Adjusting Air Pressure".

## ADJUSTING AIR PRESSURE

1. Pull pressure regulator knob up (Fig. A).
2. Turn pressure regulator to increase (clockwise) or decrease (counter-clockwise) pressure (Fig B).
3. Once desired pressure is reached, align and push pressure regulator down (Fig. C).



## MAINTENANCE



**CAUTION:** Read safety instructions before maintenance on air compressor.

1. Turn off air compressor.
2. Disconnect cord from main power supply.
3. Wait for the air compressor to cool before starting service.

## MAINTENANCE CHART

Procedures	Daily	Weekly	Monthly	300 Hrs.
Check for unusual noise/vibration	X			
Check for air leaks	X			
Check nuts and bolts	X			
Drain moisture trap *	X			
Inspect air filter		X		
Clean exterior of compressor		X		
Check safety valve			X	
Replace air filter				X

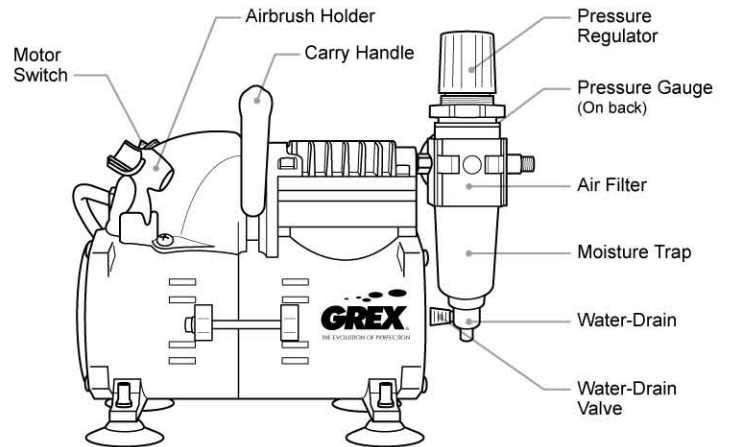
\* To empty accumulated water in trap, turn water-drain valve so that arrow is pointing down.

## TROUBLESHOOT GUIDE

Trouble	Possible Cause	Remedy
<b>Motor will not run or start</b>	<ul style="list-style-type: none"> <li>• Wrong gauge wire or length of extension cord.</li> <li>• Loose electrical connections.</li> <li>• Defective motor, motor capacitor, motor/pressure switch or check valve.</li> </ul>	<ul style="list-style-type: none"> <li>• Check for proper gauge wire and cord length.</li> <li>• Check wiring connections inside pressure switch and terminal box area.</li> <li>• Contact an authorized service center for inspection or replacement if necessary.</li> </ul>
<b>Noisy Operation</b>	<ul style="list-style-type: none"> <li>• Carbon deposits on pistons or valves.</li> <li>• Bearing, piston or connect rod failure.</li> </ul>	<ul style="list-style-type: none"> <li>• Remove cylinder head and inspect. Clean or replace.</li> <li>• STOP THE COMPRESSOR! Contact customer service.</li> </ul>
<b>Air leaks at fittings</b>	<ul style="list-style-type: none"> <li>• Fittings are not tight enough.</li> </ul>	<ul style="list-style-type: none"> <li>• Tighten fittings where air can be heard escaping. Check fittings with soapy water solution. <b>Do not over tighten.</b></li> </ul>

## COMPRESSOR SPECIFICATIONS

### NAME OF PARTS



### TECHNICAL SPECIFICATIONS

Horse Power	1/8 HP
Displacement	0.7 cfm (20 L/min)
Speed (AC1810-A)	1700 rpm
Speed (AC1810-B)	1400 rpm
Power (AC1810-A)	115V / 0.96 A / 60 Hz
Power (AC1810-B)	220V / 0.50 A / 50 Hz
Maximum Pressure	60 psi (4.1 bar)
Dimensions	26 cm L x 21 cm H x 14 cm W
Net Weight	5 kgs (11 lbs)
Air Inlet	1/8" (3.2 mm) NPS male plug

## WARRANTY

All Grex products are warranted against manufacturing defects of material and manufacture or workmanship for a period of ONE year from the original date of purchase. This warranty does not cover air filters and o-rings since these parts need to be replaced occasionally due to normal wear. Any parts of the product covered under this warranty will be repaired or replaced at our option, which after examination proves to be defective in workmanship or material during the warranty period. Proof of purchase may be required.

This warranty does not apply to repair or replacement parts required due to misuse, abuse, normal wear and tear or repairs and alterations attempted. In no event shall Grex be liable for any indirect, incidental, or consequential damage from the sales or use of this product. This disclaimer applies both during and after the term of this warranty.

This is the only warranty and our company makes no warranties express or implied, including merchantability and fitness for a practical purpose, after the one year term of this warranty.

This limited warranty gives you specific rights and you may also have other rights, which vary from state to state.