For questions concerning this air compressor, please call: 1-877-861-2722.
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SAFETY GUIDELINES - DEFINITIONS

Safety is a combination of common sense, staying alert and knowing how your compressor works. Read this manual to understand this compressor.

DANGER
means if safety information is not followed someone will be seriously injured or killed

WARNING
means if safety information is not followed someone could be seriously injured or killed

CAUTION
means if safety information is not followed someone may be seriously injured or killed

IMPORTANT SAFETY INSTRUCTIONS

Save these instructions

Improper operation or maintenance of this product could result in serious injury and property damage. Read and understand all warnings and operation instructions before using this compressor.

Before using the air compressor

Things you should know

Air compressors are utilized in a variety of air system applications. Because air compressors and other components (hoses, connectors, air tools, spray guns, etc.) make up a high pressure pumping system, the following safety precautions should be observed at all times.

Only persons familiar with these rules of safe operation should use the air compressor.

1. Read the instruction manual carefully before attempting to assemble, disassemble or operate your system. Be thoroughly familiar with the controls and the proper use of the equipment.

2. Review and understand all safety instructions and operating procedures in this manual.

3. Review the maintenance methods for this compressor (See “Maintaining Your Compressor” section).

Inspect your work area

1. Keep work area clean.

2. Cluttered areas and benches invite accidents. Floors must not be slippery from wax or dust.

Inspect your compressor

1. To reduce the risk of injury from accidental starting, turn switch off and disconnect the power before checking it.

2. If any part is missing, bent or broken in any way, or any electrical part does not work properly, keep the compressor off and disconnected.

3. Check hoses for weak or worn condition before each use, making certain all connections are secure. Do Not use if defect is found.

WARNING
Do not operate compressor if damaged during shipping, handling or use. Damage may result in bursting and cause injury or property damage.

DANGER
This compressor is Not designed for and should not be used in breathing air applications.
When installing or moving the compressor

⚠️ WARNING
This compressor is extremely top heavy. The compressor must be bolted to the floor with vibration pads before operating to prevent equipment damage, injury or death. **Do Not** tighten bolts completely as this may cause stress to the tank welds.

**To reduce the risk of a dangerous environment**

1. Keep work area well lit.

2. Operate compressor in a well-ventilated area free from flammable liquids and vapors.

3. Operate compressor in a ventilated area so that compressor may be properly cooled and the surrounding air temperature will not be more than 100°F.

4. Never use a compressor in a wet environment.

5. Protect material lines and air lines from damage or puncture. Keep hose and wires away from sharp objects, chemical spills, oil, solvents and wet floors.

⚠️ WARNING
**Do Not** secure compressor with toggle bolts into drywall. Drywall sheeting or plaster will not support the weight of the compressor.

6. A minimum clearance of 18 inches between the compressor and a wall is required because objects could obstruct airflow.

7. **The compressor should be located where it can be directly wired to a circuit breaker. The compressor should be wired by a qualified electrician.**

8. **Never store flammable liquids or gases in the vicinity of an operating compressor.**

9. **Do Not** locate the compressor air inlet near steam, paint spray, sandblasting areas or any other source of contamination. The debris could damage the motor and pump.

⚠️ WARNING
Never use plastic (PVC) pipe for compressed air. Serious injury or death could result.

⚠️ CAUTION
Never use the shipping skid for mounting the compressor.

⚠️ NOTICE
This compressor is not intended for outdoor installation.

⚠️ WARNING
Never install a shut off valve between the compressor pump and tank. Personal injury and/or equipment damage could occur.

**Note:** Tank Outlet Size: 1/2” NPT for 6061V & 216V 3/4” NPT for All 80 Gallon Units and 5312H/HE 1” NPT for All Duplex Compressors

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**Before each use**

**Inspect your work area**

1. Keep work area clean. Cluttered areas and benches invite accidents.

2. The floor must not be slippery from wax or dust.

**Inspect your compressor**

1. **To reduce the risk of injury from accidental starting,** turn the switch off and disconnect power.

2. **If any part is missing, bent or broken in any way, or any electrical part does not work properly,** keep the compressor off and disconnect power. **Do Not** use if defect is found.

3. **Check hoses for weak or worn condition before each use,** making certain all connections are secure. **Do Not** use if a defect is found.
Follow the safety precautions for electrical connections

1. Follow all local electrical and safety codes, as well as the National Electric Code (NEC) and the Occupational Safety and Health Act (OSHA).

2. Wiring and fuses should follow electrical codes, current capacity and be properly grounded.

3. Protect wires from contact with sharp objects.

Plan ahead to protect your eyes, hands, face and ears

Dress for safety

1. Wear safety glasses (meeting ANSI Z87.1 or in Canada CSA Z94.3-99) and use hearing protection when operating the unit. Everyday glasses are not safety glasses.

2. Wear shoes to prevent shock hazards.

3. Tie back long hair.

Pay attention to your hands

WARNING

Keep fingers away from running compressor. Fast moving and hot parts may cause injury and/or burns.

WARNING

Be careful when touching the exterior of compressor, pump, motor and air lines; they may become hot enough to cause injury.

WARNING

Never operate the compressor without a beltguard. The compressor can start automatically without warning. Personal injury or property damage could occur from contact with moving parts.

CAUTION

The compressor may be hot even if the unit is stopped.

WARNING

Use of a mask or respirator per chemical manufacturers’ instructions may be necessary if there is a chance of inhaling toxic fumes. Read mask and respirator instructions carefully. Consult a safety expert if you are not sure about the use of certain masks or respirators.

When operating

1. Do not exceed the pressure rating of any component of the system.

2. Release pressure within the system slowly to prevent flying dust and debris.

3. If the equipment starts to abnormally vibrate, STOP the compressor immediately and check for the cause.

WARNING

Never change the safety valve or pressure switch settings. Keep safety valve free from paint and other accumulations. See compressor specification decal for maximum operating pressure. Do not operate with the pressure switch set higher than the maximum operating pressure.
Spraying precautions

1. **Do Not** spray in the vicinity of open flames or other places where a spark can cause ignition. **Do Not** smoke when spraying paint, insecticides, or other flammable substances.

**Reduce the risk of dangerous environment**

**WARNING**

Never point a spray gun at yourself or any other person or animal. Accidental discharge may result in serious injury.

**WARNING**

Extreme caution should be taken when spraying flammable liquids as the spark from a motor or pressure switch may cause a fire or explosion. Ample ventilation must be provided.

**WARNING**

Spray in a well ventilated area to keep fumes from collecting and causing serious injury and fire hazards.

**Be informed about the materials you use**

1. When spraying with solvents or toxic chemicals, follow the instructions provided by the chemical manufacturer. Consult a safety expert if unsure about the use of masks or respirators.

2. If the material you intend to spray contains trichloreoethane and methylene chloride, do not use accessories that contain aluminum or galvanized materials, as these chemicals can react with galvanized components causing corrosion and weakening equipment. Use stainless steel accessories.

**Perform these maintenance operations**

1. Do regular maintenance; keep all nuts, bolts, and screws tight, to be sure equipment is in safe working condition.

2. Inspect tank yearly for rust, pin holes or any other imperfections that could cause it to become unsafe.

**WARNING**

NEVER attempt to repair or modify a tank! Welding, drilling or any other modification will weaken the tank resulting in damage from rupture or explosion. Always replace worn, cracked or damaged tanks.

3. Clean electrical equipment with an approved cleaning agent, such as a dry, non-flammable cleaning solvent.

4. Drain tanks of moisture after each day’s use. If unit will not be used for awhile, it is best to leave the drain cock open until such time as it is to be used. This will allow moisture to completely drain out and help prevent corrosion of inside of tank.

5. Always disconnect from power source before working on or near a motor, or its connected load. If power disconnect point is out-of-sight, secure it in the “OFF” position and tag it to prevent unexpected application of power.

**WARNING**

Disconnect power and depressurize system before servicing air compressor. Slightly open drain cock after shutting off compressor.

**Daily**

Check oil level at sight glass. Oil level should be 1/2 to slightly higher in the oil sight glass.

Drain moisture from tank.

Verify the pressure switch unloader is working by listening for a brief hissing sound when the compressor shuts off.

Visually check the compressor for loose parts, excessive noise or vibration. Tighten any necessary part.

**Monthly**

(Make sure the main power is off.) Check the belts for tension. Belts should not move up and down when the compressor runs and when stopped, should not have more than 1/2 in of play when depressed. Be careful not to over tighten belts during adjustment.

Remove and check air filter, replace if necessary.

Change oil every 3 months or 300 hours. A compressor grade non-detergent oil should be used. (40 wt for Single Stage Compressors and 30wt for Two Stage Compressors).
GLOSSARY OF TERMS

Air Filter
Porous element contained within a metal or plastic housing attached to the compressor cylinder head which removes impurity from the intake air of the compressor.

Air Tank
Cylindrical component which contains the compressed air.

Check Valve
Device which prevents compressed air from flowing back from the air tank to the compressor pump.

Electric Motor
Device which provides the rotational force necessary to operate the compressor pump.

Pressure Gauge
Device which shows the tank or regulated pressure of the compressed air.

Pressure Switch
Device which automatically controls the on/off cycling of the compressor. It stops the compressor when the cut-off pressure in the tank is reached and starts the compressor when the air pressure drops below the cut-in pressure.

PSI (Pounds per Square Inch)
Measurement of the pressure exerted by the force of air. The actual psi is measured by a pressure gauge on the compressor.

Pump
Device which produces the compressed air with a reciprocating piston contained within a cylinder.

Safety Valve
Device which prevents air pressure in the air tank from rising over a predetermined limit.

Thermal Overload Switch
Device, integrated into the electric motor winding, which automatically "shuts off" the compressor if the temperature of the electric motor exceeds a predetermined limit.
To reduce the risk of electrical hazards, fire hazards or damage to the compressor, use proper circuit protection. Your compressor is wired at the factory for operation using the voltage shown. Connect the compressor to a power source with the correct breaker size.

Adequate wiring and motor protection should be provided for all stationary compressors. Wiring used for other machinery should not be used. A qualified electrician familiar with local electrical codes in your area should be used. Size supply wiring per NEC (National Electric Code) requirements.

To reduce the risk of electrical hazards, fire hazards or damage to the compressor, use proper circuit protection. Your compressor is wired at the factory for operation using the voltage shown. Connect the compressor to a power source with the correct breaker size.

General Information

Adequate wiring and motor protection should be provided for all stationary compressors. Wiring used for other machinery should not be used. A qualified electrician familiar with local electrical codes in your area should be used. Size supply wiring per NEC (National Electric Code) requirements.

WARNING

To reduce the risk of electrical hazards, fire hazards or damage to the compressor, use proper circuit protection. Your compressor is wired at the factory for operation using the voltage shown. Connect the compressor to a power source with the correct breaker size.

Electrical connections must be properly grounded. Ground connections should be connected at the grounding screw.

CAUTION

Overheating, short circuiting and fire damage will result from inadequate wiring.

WIRING

For Models With Magnetic Starter

Incoming power should be connected to L1 and L2 at the Top of the Magnetic Starter.*

*3 Phase units should be connected to L1, L2 and L3.

For Models Without Magnetic Starter

Incoming power should be connected to the posts marked (line).

Do Not Make Connections On Prewired Posts (Motor)

Grounding Screw

Incoming power should be connected to the posts marked (line).

Do Not Make Connections On Prewired Posts (Motor)

Grounding Screw

STARTING THE COMPRESSOR

Prior to actually running the compressor, check the following items:

Crankcase oil - Make sure the sight glass shows ½ full or slightly above.

Make sure all rags, tools, oil, etc. are away from the unit.

Open the air system to free it of any pressure.

Switch the compressor on for a few revolutions to make sure the rotation is correct. Correct rotation is clockwise when facing the sight glass on the pump.

Operate the compressor for a few minutes unloaded (air system open) then allow the compressor to pump up. Make sure the electrical pressure switch properly switches off the compressor according to the setting desired. (130 psi for Single Stage, 165 for 216V, and 175 psi for all other Two Stage.)

CAUTION

Make sure the pressure in the tank does not exceed its rating. Single Stage should operate at a maximum of 130 psi, 216V should operate at a maximum of 165 psi, & Two Stage at a maximum of 175 psi. If the pressure gauge indicates a pressure that is higher than these maximum pressures, shut off compressor immediately and call 1-800-528-5192.
Electric start models: (See Engine Manual for More Detailed Instructions)

Make Sure There is Gas in the Gas Tank

Honda: Turn the gas lever to the “on” position. Turn the choke lever to the left. Turn key to the “on” position, then to the “start” position. Once the engine is running, turn the choke lever to the original “right hand” position.

Kohler: Turn the gas lever clockwise to the “on” position. Push the choke lever to the right. Turn the key to the “run” position, then to the “start” position. Once the engine is running, push the choke lever back to the original position.

Robin: Turn the gas lever to the “Open” position. Close the choke lever. Turn the key to the “Start” position. Do not keep the key in the “Start” position for more than 5 seconds. Open the choke lever once running.

Briggs: Turn the gas lever to the “Open” position. Push the choke lever to the “choke” position. Turn key to the “Start” position and push button to start. Pull choke lever to the “Run” position once running.

Recoil Start Models:

Honda: (5hp) Pull choke lever toward you. Pull starter grip to start engine, return grip slowly. Once engine is running, push choke back to original position. (5.5hp) Turn the switch on the right side of the engine to the “on” position. Slide the choke lever (gray lever) to the left which is the “choke” position. Slide the gas lever (black lever) to the right which is the “on” position. Pull starter grip to start engine, return slowly. Once the engine is running, slide the choke lever back to the right.

Robin: Turn the gas lever to the “Open” position. Close the choke lever. Turn the STOP SWITCH to the “On” position. Pull starter until resistance is felt. Return the handle to the original position, then pull swiftly. Open the choke lever once running.

NOTE SOME MODELS ARE EQUIPPED WITH PETCOCK ON UNLOADER VALVE... OPEN PETCOCK ON COLD START. SOME MODELS MAY REQUIRE AIR PRESSURE TO BE COMPLETELY DRAINED FROM TANK ON COLD START.

Battery Connection Instructions for Electric Start Engines

Note: Make sure to follow instructions carefully to avoid a short and possible damage to the starter solenoid and/or battery. Always connect the positive(+) battery cable to the starter solenoid before connecting the negative(-) battery cable.

NUMBER 2 WIRE OR LARGER IS REQUIRED

1. Location of the starter solenoid terminal.
   - Honda: Outside post (The only bare post)
   - Kohler: (12.75 hp) Post closest to block with small red wire
   - Robin: Upper Post
2. Connect the positive(+) battery cable to the starter solenoid terminal. (See above)
3. Connect the negative(-) battery cable to a mounting bolt or an acceptable engine ground connection.
4. Connect the positive(+) battery cable to the positive(+) battery terminal.
5. Connect the negative(-) battery cable to the negative(-) battery terminal.
QP Compressors

You have purchased a state of the art BelAire QP compressor. The QP comes equipped with sound attenuating enclosure. For maintenance, the canopy and side foam pieces will need to be removed.

To remove the canopy, simply remove the 6 fasteners and lift the canopy straight up and off.

QP and Elite Compressors

BelAire ELITE and QP models come equipped with low oil level switches and automatic tank drains. The QP models also include protection against over-heating.

Low Oil Level Switch

The function of the low oil level switch is to keep the air compressor from starting if the oil level drops beyond a certain point.

For compressors outfitted with the low oil level switch, the oil should in the top 1/3 of the oil sight glass.

When changing or adding oil, it is important to remove the Oil Vent Plug to allow for the oil to flow completely into the switch.

(Please Note: If overfilled, oil will flow out of the oil vent hole)

Thermal Protection - QP Models

If the cooling fan were to fail or internal temperature were to reach 170°F the QP models are outfitted with a thermal fuse.

When tripped, the fuse can be reset. The canopy will need to be removed to reset the thermal fuse.

Press to Reset

Location of Fuse
(Inside Canopy Behind Fan)
<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Causes</th>
<th>Solutions</th>
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</thead>
</table>
| Low discharge pressure                       | 1. Compressor too small for application  
2. Air leaks  
3. Restricted intake air  
4. Blown gasket(s)  
5. Broken or misaligned valves | 1. Reduce air demand or use a compressor with more air capacity.  
2. Listen for air leaks. Apply a soap solution to all fittings and connections. Bubbles will form at points of leakage. Tighten or replace fittings or connections.  
3. Clean or replace air filter.  
4. Replace necessary gaskets.  
5. Remove head and inspect for broken or misaligned valves. Replace valves, if necessary.  

**CAUTION** Install a new head gasket each time head is removed |

| Excessive noise “knocking”                   | 1. Loose drive pulley or flywheel  
2. Low on oil  
3. Worn connecting rod or connecting rod bearing  
4. Noisy check valve | 1. Tighten drive pulley or flywheel bolt.  
2. Check for proper oil level. Low or dirty oil may cause bearing damage.  
3. Replace connecting rod and/or connecting rod bearings.  
4. Replace check valve.  

**DANGER** Do not remove check valve with air pressure in tank |

| Excessive oil carryover                      | 1. Worn piston rings  
2. Restricted intake air  
3. Too much oil in compressor  
4. Incorrect oil viscosity | 1. Replace with new piston rings.  
2. Clean or replace air filter.  
3. Drain oil to proper oil level.  
4. Use a quality non-detergent 30 or 40wt oil specified for each model (Page 4). |

| Water in tank and/or discharge line          | 1. Normal. Amount of water will increase as humidity in the air increases. | 1. Drain tank at least once per day.  
2. Add an inline filter to reduce moisture in the air line. |

| Will not run or motor hums                   | 1. Low voltage  
2. Malfunctioning pressure switch  
3. Malfunctioning check valve | 1. Check voltage with volt meter across both legs of incoming power. Check reset button on motor.  
2. Repair or replace pressure switch.  
3. Replace check valve or pressure switch.  

**DANGER** Do not remove check valve with air pressure in tank |

| Breaker or reset repeatedly trips           | 1. Incorrect breaker size  
2. Low voltage  
3. Malfunctioning motor  
4. Loose electrical connections  
5. Malfunctioning pressure switch  
2. Check voltage with volt meter across both legs of incoming power.  
3. Replace motor.  
4. Check all electrical connections.  
5. Adjust or replace pressure switch.  
6. Replace check valve.  

**DANGER** Do not remove check valve with air pressure in tank |

| Tank does not hold pressure when not running and shut off valve is closed | 1. Malfunctioning check valve  
2. Loose fittings or connections  
3. Crack or pin hole in tank | 1. Replace check valve.  

**DANGER** Do not remove check valve with air pressure in tank  
2. Tighten or replace fittings or connections.  
3. Replace tank. Do not attempt to repair tank. |
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<tr>
<td>1. Malfunctioning check valve</td>
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<td>1. Replace check valve if unloader bleeds constantly.</td>
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<tr>
<td>- Do not remove check valve with air pressure in tank</td>
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<td>1. Malfunctioning pressure switch</td>
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<tr>
<td>1. Replace pressure switch if it does not release air pressure briefly when unit shuts off.</td>
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<td>- Do not remove pressure switch with air pressure in tank</td>
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<td>1. Improper installation</td>
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The Company warrants that the Equipment manufactured by it and delivered hereunder shall be free from defects in material and workmanship for a period of twelve (12) months from the date of initial start-up, or eighteen (18) months from the date of shipment from the manufacturer, whichever occurs first. The foregoing warranty period shall apply to all Equipment, except for the following: (A) all two stage reciprocating stationary models are warranted for the earlier of twenty-four (24) months from the date of initial operation or thirty (30) months from date of shipment from the manufacturer. (B) Replacement parts will be warranted for three (3) months from the date of shipment from the manufacturer. Should the failure to conform to this warranty be reported in writing to the Company within said period, the Company shall, at its option, correct such non-conformity by suitable repair to such Equipment, or furnish a replacement part F.O.B point of shipment, provided that the Purchaser has installed, maintained, and operated such Equipment in accordance with good industry practices, and has complied with specific recommendations of the Company. Accessory and equipment furnished by the Company, but manufactured by others, shall carry whatever warranty the manufacturer conveyed to the Company and which can be passed on to the Purchaser. The Company shall not be liable for any repairs, replacements, or adjustments to the Equipment, or any costs of labor performed by the Purchaser without the Company’s prior written approval.

The Company makes no performance warranty unless specifically stated within its proposal, and the effects of corrosion, erosion, and normal wear and tear are specifically excluded from the Company’s warranty. In the event performance warranties are expressly included, the Company’s obligation shall be to correct in the manner and for the period of time provided above.

THE COMPANY MAKES NO OTHER WARRANTY OR REPRESENTATION OF ANY KIND WHATSOEVER, EXPRESSED OR IMPLIED, EXCEPT THAT OF TITLE, AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY DISCLAIMED. THIS WARRANTY SUPERSEDES ALL PREVIOUS WARRANTY STATEMENTS.

Correction by the Company of non-conformities, whether patent or latent, in the manner and for the period of time provided above, shall constitute fulfillment of all liabilities of the Company and its distributors for such non-conformities with respect to, or arising out of such Equipment.

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