Introduction. Congratulations on the purchase of your new air compressor. The air compressor is precision built from the finest materials using the finest state of the art design, and high tech engineering available today. Quality, performance and trouble free operation will assure you a dependable supply of air power on demand.

**CAUTION** READ THIS MANUAL CAREFULLY before operating or servicing this air compressor, to familiarize yourself with the proper safety, operation, and standard operating procedures of this unit. FAILURE TO COMPLY WITH INSTRUCTIONS IN THIS MANUAL COULD RESULT IN THE VOIDING OF YOUR WARRANTY, AND PERSONAL INJURY, AND/OR PROPERTY DAMAGE. THE MANUFACTURER OF THIS AIR COMPRESSOR WILL NOT BE LIABLE FOR ANY DAMAGE BECAUSE OF FAILURE TO FOLLOW THE INSTRUCTIONS IN THIS MANUAL. By following the instructions and recommendations in this manual you will ensure a longer and safer service life of your air compressor.

If you have questions or need clarification about this manual or your compressor call 800-531-9656

*Do not operate compressor outdoors in wet weather*
**WARNING:** Read all installation steps in install guide, and compressor package manual prior to un-crating or installing compressor package. Failure to do so can result in personal injury or damage to compressor package.

**NOTICE:** All compressor air receivers should be inspected by a certified pressure vessel technician at least once per year, to check for leaks, weak points in the metal or any other deformity of the air receiver. If at any time a receiver appears out of conformance with ASME/CRN certification or a deformity is believed to have developed no matter how minor it may appear the tank should be locked out of service immediately and replaced with a certified ASME/CRN certified air receiver immediately before the compressor can be put back into service. The receivers should have a general inspection weekly as part of normal service.

**SAFETY PRECAUTIONS AND WARNINGS**

Listed are some, but not all safety precautions that must be observed with compressors and compressed air systems. Failure to follow any of these warnings may result in severe personal injury, death, property damage and/or compressor damage.

Air from this compressor will cause severe injury or death if used for breathing or food processing.
Air used for these processes must meet OSHA 29 CFR 1910 or FDA 21 178.3570 regulations.

This compressor is designed for use in the compression of normal atmospheric air only. No other gases, vapors or fumes should be exposed to the compressor intake, nor processed through the compressor.

Disconnect all power supplies to the compressor plus any remote controllers prior to servicing the unit.

Relieve all pressure internal to the compressor prior to servicing.

Do not depend on check valves to hold system pressure.

A properly sized safety valve must be installed in the discharge piping ahead (upstream) of any shut-off valve (block valve), heat exchanger, orifice or any potential blockage point. Failure to install a safety relief valve could result in rupturing or explosion of some compressor or safety component.

Do not change the pressure setting of the safety relief valve, restrict the function of the safety relief valve, or replace the safety valve with a plug.

Over pressurization of some system or compressor component can occur, resulting in severe personal injury, death and property damage.

Never use plastic pipe, rubber hose, or soldered joints in any part of the compressed air system.
Failure to ensure system compatibility with compressor piping is dangerously unsound.

Never use a flammable or toxic solvent for cleaning the air filter or any parts.

Do not attempt to service any part while the compressor is operating.

Do not operate the compressor at pressures in excess of its rating.

Do not remove any guards while the compressor is operating.

Observe gauges daily to ensure compressor is operating properly.

Follow all maintenance procedures and check all safety devices on schedule.

Compressed air is dangerous, do not play with it.

Use the correct lubricant at all times.

Always wear proper safety equipment when using compressed air.

Always install compressor to all local applicable electric codes.
**WARNING:** Always wear proper protective eye ware, hearing protection and safety clothing when working around the compressor package. No loose or baggy clothing should be worn around compressor package at any time.

**WARNING:** On Electric motor powered air compressors make sure electrical system is up to National Electric Code (NEC) prior to installing compressor system. Failure to install a compressor with a proper NEC electrical system can cause personal injury, compressor package damage and void compressor package warranty

**NOTICE:** To ensure full compressor tank warranty all tank mounted compressor packages must be mounted on factory approved vibration isolation pads. A compressor should NEVER be installed while still on or in its original packaging. Failure to properly install the compressor system with approved vibration isolation pads will result in the compressor tank warranty being void.

**WARNING:** Compressed Air Systems compressors can operate at pressures from 0-250psi depending on the compressor package design and build specifications. Always verify that the system the compressor is installed into can handle the maximum operational pressure the compressor. NEVER install a compressor in a system that can not handle the compressors maximum operating pressure.

**WARNING:** Compressed air is extremely dangerous when not properly used or installed. Always make sure a trained compressed air professional has looked over the air system prior to use. Improper installation or use of compressed air can cause bodily injury or death. NEVER pressurize an object that was not designed to be pressurized. Pressurizing objects not properly engineered for the maximum operating pressure of the compressor system can cause bodily injury or death.

**WARNING:** Never apply air pressure to compressor crank case, always make sure crank case vent is clear and free from obstructions. Adding pressure to the crank case can cause serious bodily injury or death.

**WARNING:** Never operate a compressor in a moving vehicle or towable object in motion. Doing so can damage the compressor, compressor drive components, or auxiliary parts on the compressor package. Operating the compressor in a moving vehicle or towable object can cause serious bodily injury or death.

**WARNING:** Check function of safety valves, weekly to insure proper function, replace immediately if faulty or damaged.

**WARNING:** (Compressors Packaged with NEMA 7 Components)
Compressed Air Systems, LLC certifies that the electric motor, electrical enclosure and electrical conduit are rated for NEMA7/hazardous locations. (Only for applicable packages with NEMA7 added components)

Air compressors have multiple moving parts and potential points of contact that could create an ignition source. The compressor pumps are manufactured with ferrous metals and in some cases multiple moving parts can come in contact with one another causing an ignition source. Compressed Air Systems LLC does not guarantee this will not occur. Lack of maintenance or care can result in conditions that could also cause ignition sources.

Compressed Air Systems, LLC only guarantees that the electric motor, electrical enclosure and electrical conduit are rated for NEMA7 hazardous location. Compressed Air Systems LLC accept no other responsibility for the rating of the package.
## Troubleshooting Chart

**NOTE:** Troubleshooting problems may have similar causes and solutions

### You should always contact an authorized service center before attempting to fix or repair your air compressor.
**Always make sure electrical power is off before removing any inspection covers or plates or before servicing compressor.**

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible causes</th>
<th>Solutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Breaker trips</td>
<td>Low Voltage supply</td>
<td>Check that incoming power wire size is adequate for compressor</td>
</tr>
<tr>
<td></td>
<td>Motor overloads tripped</td>
<td>Check that compressor is on dedicated circuit</td>
</tr>
<tr>
<td></td>
<td>Restricted air passages</td>
<td>Adjust belt tension</td>
</tr>
<tr>
<td></td>
<td>Loose wires at contact points</td>
<td>Check wire connections to make sure they are tight</td>
</tr>
<tr>
<td></td>
<td>Seized Pump</td>
<td>Inspect transfer tubes and, check valve</td>
</tr>
<tr>
<td>Compressor stalls</td>
<td>Low voltage supply to compressor</td>
<td>Check compressor power supply for adequate breaker and wire size</td>
</tr>
<tr>
<td></td>
<td>Loose compressor belts</td>
<td>Inspect check valve for proper operation</td>
</tr>
<tr>
<td></td>
<td>Bad check valve</td>
<td>Tighten belts</td>
</tr>
<tr>
<td></td>
<td>Seized compressor pump</td>
<td>Check compressor for proper oil level</td>
</tr>
<tr>
<td>Low discharge pressure</td>
<td>Air leaks in shop</td>
<td>Tighten or replace leaking fittings, or joints</td>
</tr>
<tr>
<td></td>
<td>Leaking valves</td>
<td>Clean or replace air filter</td>
</tr>
<tr>
<td></td>
<td>Restricted air intake</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Blown gaskets/seals</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Worn piston rings or cylinder</td>
<td></td>
</tr>
<tr>
<td>Compressor pump knocking</td>
<td>Loose motor pulley or compressor</td>
<td>Tighten pulley or flywheel</td>
</tr>
<tr>
<td></td>
<td>flywheel</td>
<td>Keep oil level at recommended level for proper operation</td>
</tr>
<tr>
<td></td>
<td>Low oil level in compressor pump</td>
<td>Only use factory recommended oil</td>
</tr>
<tr>
<td></td>
<td>Carbon build up on valve and piston</td>
<td></td>
</tr>
</tbody>
</table>
**Troubleshooting Chart (continued)**

**NOTE:** Troubleshooting problems may have similar causes and solutions

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**Always make sure electrical power is off before removing any inspection covers or plates or before servicing compressor.**

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<thead>
<tr>
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<th>Solutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excessive oil discharge in air (All Compressors have a small amount of oil carry over in compression)</td>
<td>Worn piston rings or cylinder</td>
<td>Clean or replace air filters</td>
</tr>
<tr>
<td></td>
<td>Restricted air intake</td>
<td>Reduce oil level to recommended amount</td>
</tr>
<tr>
<td></td>
<td>Oil level to high</td>
<td>Reduce compressor duty cycle (repair leaks or add another unit to handle the excess demand)</td>
</tr>
<tr>
<td></td>
<td>Compressor has exceeded it duty cycle</td>
<td></td>
</tr>
<tr>
<td>Compressor overheating</td>
<td>Poor ventilation</td>
<td>Relocate compressor to any area with better ventilation (at least 18 inches from the nearest wall)</td>
</tr>
<tr>
<td></td>
<td>Dirty cooling surfaces</td>
<td>Clean all cooling surfaces</td>
</tr>
<tr>
<td></td>
<td>Compressor is out of its operating duty cycle</td>
<td>Reduce compressor duty cycle (repair leaks or add another unit to handle the excess demand)</td>
</tr>
<tr>
<td>Excessive belt wear</td>
<td>Pulley out of alignment</td>
<td>Realign pulley with flywheel</td>
</tr>
<tr>
<td></td>
<td>Improper belt tension</td>
<td>Re adjust belt tension</td>
</tr>
<tr>
<td></td>
<td>Pulley damaged of loose</td>
<td></td>
</tr>
<tr>
<td>Compressor won’t start in cold weather</td>
<td>Bad check valve</td>
<td>Use IS 100 (30W) compressor oil for cold weather conditions</td>
</tr>
<tr>
<td></td>
<td>Compressor has wrong grade oil</td>
<td>Move compressor to a warmer location</td>
</tr>
<tr>
<td></td>
<td>Control lines frozen</td>
<td>Put a heat lamp on compressor to maintain above freezing temperatures</td>
</tr>
</tbody>
</table>
### Troubleshooting Chart (continued)

**NOTE:** Troubleshooting problems may have similar causes and solutions

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<thead>
<tr>
<th>Problem</th>
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<th>Solutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compressor motor hums won't start</td>
<td>Fuse or Breaker blown in main panel (or fuse in fused disconnect if applicable)</td>
<td>Re-set breaker or replace blown fuse</td>
</tr>
<tr>
<td></td>
<td>Low voltage to compressor</td>
<td>Inspect check valve for proper operation</td>
</tr>
<tr>
<td></td>
<td>Compressor starting with head pressure</td>
<td>Check all power wire lead to solid connection</td>
</tr>
<tr>
<td></td>
<td>Power leads in motor or magnetic starter loose</td>
<td>Replace starter and Pressure switch</td>
</tr>
<tr>
<td></td>
<td>Starter or Pressure switch contacts corroded or broken</td>
<td></td>
</tr>
<tr>
<td>Unit has power but won't run</td>
<td>Starter tripped</td>
<td>Re-set starter</td>
</tr>
<tr>
<td></td>
<td>Starter coil out</td>
<td>Replace starter and Pressure switch</td>
</tr>
<tr>
<td></td>
<td>Pressure switch closed</td>
<td>Check unit for proper oil level</td>
</tr>
<tr>
<td></td>
<td>Low Oil monitor tripped (Elite units)</td>
<td>Replace motor or pump</td>
</tr>
<tr>
<td></td>
<td>Motor or Pump locked up</td>
<td></td>
</tr>
<tr>
<td>Compressor chatters (run and stops in a short period of time)</td>
<td>Pressure switch connection corroded</td>
<td>Replace pressure switch</td>
</tr>
<tr>
<td></td>
<td>Starter is not getting enough voltage to close coil</td>
<td>Check unit voltage</td>
</tr>
<tr>
<td></td>
<td>Low oil switch tripping</td>
<td>Check the oil level in the unit</td>
</tr>
</tbody>
</table>

**NOTE:** Low Voltage-Low voltage can cause a multitude of problems. The most common cause of low voltage is when the wire size supplying the power to the compressor is too small. The longer the run of wire the larger the diameter must be to overcome the inherent voltage loss caused by the wire resistance. The supply voltage at the main panel could also be low as supplied by you local power company or you may have too many other pieces of equipment running off the same panel. You local electrician should be contacted to evaluate and correct the problem according to the Nation Electric Code. Other Symptoms of low voltage can be flickering lights and computer screen when the compressor tries to turn on.

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You should always contact an authorized service center before attempting to fix or repair your air compressor.  
Always make sure electrical power is off before removing any inspection covers or plates or before servicing compressor.

Compressed Air Systems, LLC  1-800-531-9656   Fax 972-352-6364   www.compressed-air-systems.com
NOTE: Troubleshooting problems may have similar causes and solutions

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<th>Solutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compressor stalls and dies</td>
<td>Drive engine low on fuel</td>
<td>Check fuel level in drive engine</td>
</tr>
<tr>
<td></td>
<td>Compressor check valve not functioning</td>
<td>Inspect compressor check valve</td>
</tr>
<tr>
<td></td>
<td>Compressor Pilot valve not functioning</td>
<td>Check drive engine spark plug</td>
</tr>
<tr>
<td></td>
<td>Spark Plug in Engine bad</td>
<td>Check oil level on compressor drive engine</td>
</tr>
<tr>
<td></td>
<td>Drive engine Low on oil</td>
<td>Check oil on compressor pump</td>
</tr>
<tr>
<td>Compressor is running and is not compressing air</td>
<td>Compressor Pilot valve is actuated</td>
<td>Check pilot valve to make sure it in the proper position</td>
</tr>
<tr>
<td></td>
<td>Compressor pilot valve is malfunctioning</td>
<td>Replace compressor pilot valve</td>
</tr>
<tr>
<td></td>
<td>Compressors pump head unloaders stuck engaged</td>
<td>Check and clean compressor pump head unloaders</td>
</tr>
<tr>
<td>Compressor does not idle up for compression</td>
<td>Throttle control valve (bullwhip) not engaging</td>
<td>Check throttle control valve (bullwhip) for proper function</td>
</tr>
<tr>
<td></td>
<td>Throttle control valve cable broken</td>
<td>Replace throttle control valve</td>
</tr>
<tr>
<td></td>
<td>Drive engine throttle linkage damaged</td>
<td>Check drive engine throttle linkage</td>
</tr>
<tr>
<td>Compressor pump knocking</td>
<td>Loose motor pulley or compressor flywheel</td>
<td>Tighten pulley or flywheel</td>
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You should always contact an authorized service center before attempting to fix or repair your air compressor.
Always make sure electrical power is off before removing any inspection covers or plates or before servicing compressor.
Compressor Maintenance

**WARNING:** To avoid personal injury, always shut OFF the main power supply and disconnects to the compressor, relive all air pressure from the system, and check electrical system with electrical probe before starting any service or maintenance on the compressor.

**DAILY:**
Drain the Receiver- condensation will accumulate in the tank daily, and should be drained at least once a day. This is done to reduce corrosions of the tank from the inside. Always wear protective eye wear when draining the tank.

Check Pump Oil Level- All units have a sight glass the oil level non running units should be no lower than ½ way on the sight glass if it is lower then you need to add oil until it is at least ½ way up the sight glass.

Check unit for any unusual noise or vibrations.

**WEEKLY:**
Clean air filter: this will ensure that no dirt or heavy particulate makes its way into the compressors valve assemblies.

Clean external parts of compressor and electric motor: this helps to ensure proper cooling and prevents rust and corrosion on critical parts.

Check safety Valves: this is don’t to ensure they are not stuck in place and operating properly.

*ELITE UNITS:
Check auto tank drain for proper function

**MONTHLY:**
Inspect complete air system for leaks: this is done to make sure the compressor does not get out of its duty cycle due to air leak in the system.

Inspect Oil for Contamination: this is done to ensure that harmful deposits do not build up in the oil.

Check belt tension: this is done to ensure the belt do not fail pre-maturely, tighten them as needed to ensure they do not slip. If belts are loose, tighten per instructions on next page. Failure to tighten can cause pre-mature belt failure.

**EVERY 3 MONTHS OR 500HRS (WHICHER COMES FIRST):**
Change Oil: this is done to ensure that the compressor has proper oil level and that the oil in the machine does not deteriorate past factory specifications.

Inspect Valve assemblies: this is done to prevent premature failure and clean out and carbon that can form in older valves.

*ELITE UNITS:
Clean auto tank drain strainer and check for proper function.

Inspect pressure switch for proper function.

Inspect check valve for proper function and remove any carbon accumulation to prevent premature failure.

*Clean belt guard coolers (if equipped).

**STORAGE OF COMPRESSOR:**
Before storing the compressor for a prolonged period of time, use a blow gun to clean all debris from compressor. Shut OFF main power and turn OFF disconnect. Drain tank pressure, clean air filter, drain old oil and replace with new oil. Cover the unit to prevent dust and moisture from collecting on the unit.

**NOTE:** Maintaining proper oil level and performing oil changes at proper intervals is necessary for the proper function of the air compressor system. The best oil for you air compressor is CAS30100 full synthetic reciprocating compressor oil.

Your average vehicle travels 30,000 highway miles in 500 hrs or 15,000 city miles in 500 hrs at 210° F or less. In the same 500 hrs/3 months a reciprocating compressors operating temperature may exceed 350° F.
Adjusting Belt Tension

Proper belt tension and pulley alignment must be maintained for maximum drive efficiency and for maximum belt life. The correct tension exists if a deflection of ½ inch occurs by placing 10lbs of force midway between the motor pulley and the compressor flywheel. This deflection can be adjusted by the following procedure. The pulley should be carefully aligned with the flywheel and set screws should be kept tight.

1. Remove the belt guard
2. Loosen the motor mounting bolts
3. Shift the motor to the point where the correct deflection exists
4. Retighten the motor mounting belts
5. Check to ensure that the tension remain correct after tightening
6. Re-install the belt guard. All moving parts must be guarded

NOTE: Drive belt tension and pulley alignment are done at the same time. They are discussed separately for clarity.

Pulley Alignment

The figure to the side shows 3 examples of misaligned pulleys. To check pulley alignment, remove the belt guard and place a straightedge against the compressor flywheel, measure and record the distance from the straightedge to the edge of the drive belt. Then measure the distance to the edge of the drive belt on the motor pulley at the same edge. As long as both points measure the same distance the pulleys will be aligned if not you will need to move the pulley until its in alignment this may take a few tries. To re-align the pulley follow the steps below

1. Loosen the motor mounting bolts
2. Remove the belt guard
3. Loosen the set screw on the motor pulley
4. Align the motor pulley with the compressor flywheel
5. Re-tighten the motor pulley set screws
6. Adjust the proper belt tension
7. Re-tighten the motor mounting bolts
8. Re-install the belt guard
Description of Compressor

WHAT IS A RECIPROCATING COMPRESSOR?
A reciprocating compressor is a piston type pump which develops pressure from the action of a piston moving through a cylinder. The cylinder, or cylinders, may be vertical, horizontal or angular.

When air is drawn in from the atmosphere and compressed to its final pressure in a single stroke, the compressor is referred to as a “single stage” pump. Single stage units normally are used in the 90 to 125psi range and are available as single or multi-cylinder (twin cylinder) compressors.

When the air drawn from the atmosphere is compressed first to an intermediate pressure, and then further compressed to a higher pressure, it is done in a “two stage” pump. These cylinders are unequal in size and the first stage always takes place in the larger, low pressure cylinder. From there it passes through the inner cooler to the smaller, high pressure cylinder. The cycle is completed as the air then moves through the after cooler and discharge line into the tank. Two stage compressors are generally used for pressure ranges from 100 to 175 PSI and deliver more air per horsepower at these pressures. This increase in efficiency is partially due to the heat dissipated as the air passes through the inner cooler.

Description Of Cooling

Our compressors are cooled by fan blades, incorporated into the driven sheave (pulley), blowing air across the intercooler, after cooler, and cylinder head.

Description Of Controls

Stop/Start Receiver or plant air system pressure is controlled within limits by a pressure switch automatically stopping and starting the compressor as the air pressure reaches a maximum preset pressure (cut out) and then drops to a minimum pressure pressure (cut in).

WARNING: Always wear proper protective eye ware, hearing protection and safety clothing when working around the compressor package. No loose or baggy clothing should be worn around compressor package at any time.

WARNING: On Electric motor powered air compressors make sure electrical system is up to National Electric Code (NEC) prior to installing compressor system. Failure to install a compressor with a proper NEC electrical system can cause personal injury, compressor package damage and void compressor package warranty

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WARNING: Compressed air is extremely dangerous when not properly used or installed. Always make sure a trained compressed air professional has looked over the air system prior to use. Improper installation or use of compressed air can cause bodily injury or death. NEVER pressurize an object that was not designed to be pressurized. Pressurizing objects not properly engineered for the maximum operating pressure of the compressor system can cause bodily injury or death.
Receiving and Uncrating of your Compressor

BEFORE UNCRATING THE COMPRESSOR THE FOLLOWING STEPS SHOULD BE TAKEN.
1. Immediately upon receipt of the equipment, it should be inspected for damage that may have occurred during shipment. If any damage is found, demand an inspection immediately by an inspector from the carrier. Ask him/her how to file a claim for damages. (Never attempt to move compressor without proper lifting equipment).
2. Insure that adequate lifting equipment is available for moving the machinery.
3. Read the compressor nameplate to be sure the compressor is the model and size ordered.
4. Read the motor nameplate to be sure the motor is compatible with your electrical conditions. (Volts-Phase-Hertz).

IMPORTANT: If voltage supplied to the compressor is below 208 volts the unit need a 200 Volt drive motor and 208-230-460 Volt should not be used below 208 volts.

NOTE: Standard motors are open drip proof with a maximum ambient temperature rating of 104 degrees F. They are not suitable for salt laden, corrosive, dirty, wet, or explosive environments.

CAUTION: Improper lifting can result in component or system damage or personal injury.

Follow good shop practices and safety procedures

CAUTION: Under no circumstances should a compressor be placed in an area that may be exposed to a flammable, toxic, volatile or corrosive atmosphere nor should flammable, toxic, volatile or corrosive agents be stored near the compressor.
Compressor Installation

LOCATION
Locate the compressor in an indoor area that is clean, dry, well lighted, and well ventilated, with sufficient space for safe and proper inspection and maintenance. Ambient temperatures should not exceed 104 degrees F or fall below 30 degrees unless an electric motor rated for a higher temperature is used. Inspection and maintenance checks are required daily, therefore, ample space is required around the compressor.

The compressor must not be installed closer than 18 inches from a wall or from another compressor to allow ample circulation or air across the compressor cylinders and head, and through the coolers if they are part of the system. Additional safety can be achieved by locating the pulley guard next to the wall.

MOUNTING
The use of the factory supplied rubber vibration isolation pads, or other factory supplied vibration isolation mounting equipment is required for tank warranty from the original tank manufacturer. The compressor should never be left on original shipping material for installation. If a shim is required to level the unit, place it between the pad and floor. If you bolt the unit to the floor, use the bolts as guide pins and do not tighten the bolts. The rubber pads are used to absorb machine vibration and cannot work effectively if bolted tightly.

INDUCTION SYSTEM
Do not locate the compressor where it could ingest or ignite toxic, explosive or corrosive vapors, ambient air temperatures exceeding 110 degrees F, water or extremely dirty air. Ingestion of any of the above noted atmospheres by the compressor could jeopardize the performance of the equipment and all personnel exposed to the total compressed air system.

Destructive pulsations can be induced by reciprocating compressors that will damage walls and break windows. Pulsation can be minimized by adding a pulsation dampener on the inlet side of the compressor.

For compressor tank to have full manufacturer warranty. The tank must be installed properly on manufacturer supplied vibration pads per compressor manual. Failure to do so can void compressor tank warranty and cause tank cracks or failures.

On Electric compressors all electrical connections must be wired and installed per NEC (National Electric Code) (See the back of the manual for NEC code) and all local applicable codes for full electric component warranty. Failure to do so can void compressor electrical warranty.
NOISE
Noise is a potential health hazard that must be considered. There are local and federal laws specifying maximum acceptable noise levels that must not be exceeded. Most of the noise from a reciprocating compressor originates from the air inlet point. Excessive noise can be greatly reduced by installing an intake noise silencer. Intake noise silencers are available from the compressor manufacturer.

PIPING FITUP
Care must be taken to avoid assembling the piping in a strain with the compressor. It should line up without having to spring or twist into position. Adequate expansion loops or bends should be installed to prevent undue stresses at the compressor resulting from the changes between hot and cold conditions. Pipe support should be mounted independently of the compressor and anchored as necessary to limit vibration and prevent expansion strains.

NOTE:
Standard motors are open drip proof with a maximum ambient temperature rating of 104 degrees F. They are not suitable for salt laden, corrosive, dirty, wet, or explosive environments.

SAFETY VALVES: Safety valves are pressure relief valves and should be sized and purchased with a pressure setting to protect the weakest link in the system. Never change the pressure setting, only the safety valve manufacturer is qualified to make a change. Safety valves are to be placed ahead of any potential blockage point which included but is not limited to, shutoff valves, heat exchangers, pulsation dampeners, and discharge silencers.

Failure to properly size, set and install pressure relief valves can be fatal.
PRESSES VESSELS
Air receiver tanks and other pressure containing vessels such as, but not limited to, pulsation bottles, heat exchangers, moisture separators and traps, shall be in accordance with ASME Boiler and Pressure Vessel Code Section VIII and ANSI B19.3 Safety Standards.

ELECTRICAL
Before installation, the electrical supply should be checked for adequate wire size, breaker size, transformer and capacity. During installation a suitable fused or circuit breaker disconnect switch should be provided. Where a 3 phase motor is used to drive a compressor, any unreasonable voltage unbalance between the legs must be eliminated and any low voltage corrected to prevent excessive current draw. Compressors must be equipped with a properly wired magnetic motor starter or a pressure switch rated to carry the full motor current load. The coil which engages and disengages the contact points in the motor starter is controlled by the pressure switch. Never attempt to bypass the pressure switch or adjust it past the factory set pressure range. Improper installation of the electrical system can cause the motor to overheat or a short circuit to occur.

CAUTION
The installation, wiring, and all electrical controls must be in accordance with ANSI C1 National Electric Code, ANSE C2 National Electric Safety Code, state and local codes. All electrical work should be performed by a qualified electrician. Failure to abide by the national, state and local codes may result in physical and/or property damage.

CAUTION
ASME coded pressure vessels must not be modified, welded, repaired, reworded or subjected to operation conditions outside the nameplate ratings. Such actions will negate code status, affect insurance status and may cause severe personal injury, death, and property damage.
PRESSURE SWITCH
The pressure switch is automatic in operation and is adjusted to start and stop the unit at the minimum and maximum desired air receiver pressure by cutting in and out the power to the electric motor. On some models, the pressure switch incorporates a release valve, which releases air between the check valve located in the receiver and discharge valve in the head of the compressor.

MANUAL RELIEF AND SHUTOFF VALVES
Install a manual relief valve to vent the compressor to atmosphere. In those instances where the air receiver tank services a single compressor, the manual relief valve can be installed on the receiver. When a manual shut-off valve, and a safety relief valve installed upstream from the manual relief valve. These valves are to be designed and installed as to permit maintenance to be performed in a safe manner. Never substitute a check valve for a manual shut-off valve (block valve) if the purpose is to isolate the compressor from a system for servicing.
GUARDS
All mechanical action or motion is hazardous in varying degrees and needs to be guarded. Guarding shall be in compliance with OSHA Safety and Health Standards 29 CFR 1910.219 in OSHA manual 2206 and any state or local code.

DRIVES
It is important that the compressor and motor pulleys are aligned properly and the V belt is correctly tensioned. Improper pulley alignment and belt tension are causes for motor overloading, excessive vibration, and premature belt and/or bearing failure.

CAUTION
Excessive speed of the compressor or driver can be lethal. Never operate the compressor beyond the manufacturer’s recommendation. Bursting of the flywheel may be the greatest threat because the normal guard may not contain all the pieces. Crankshaft and connecting rod breakage is a possibility and compressor efficiency, valve life and bearing life will be abnormally reduced.

CAUTION
Guards must be fastened in place before starting the compressor and never removed before cutting off and locking out the main power supply.

Removal or painting over safety labels will result in uninformed conditions. This may result in personal injury or property damage. Warnings signs and labels shall be provided with enough light to read, conspicuously located and maintained for legibility. Do not remove any warning, caution, or instructional material attached!

Provisions should be made to have the instruction manual readily available to the operator and maintenance personnel. If for any reason any part of the manual becomes illegible or if the manual is lost, have it replaced immediately. The instruction manual should be periodically read to refresh one’s memory, it may prevent a serious or fatal accident.
Receiving and Uncrating of your Compressor

Before uncrating the compressor the following steps should be taken.

1. Immediately upon receipt of the equipment, it should be inspected for damage that may have occurred during shipment. If any damage is found, demand an inspection immediately by an inspector from the carrier. Ask him how to file a claim for damages. (See Appendix “A” for Details).

2. Insure that adequate lifting equipment is available for moving the machinery.

3. Read the compressor nameplate to be sure the compressor is the model and size ordered.

4. Read the motor nameplate to be sure the motor is compatible with your electrical conditions. (Volts-Phase-Hertz).

**IMPORTANT:** Compressor drive engine comes with its own manual refer to drive engine manual for any specifications or troubleshooting issues with the drive engine of the air compressor.

**CAUTION:** Improper lifting can result in component or system damage or personal injury. Follow good shop practices and safety procedures.
Start Up Preparation & Procedures

The following check list shall be adhered to before putting the compressor into operation.

FAILURE TO PERFORM THE CHECKS MAY RESULT IN SERIOUS INJURY OR DEATH, PROPERTY DAMAGE AND/OR MECHANICAL FAILURE. DISCONNECT AND LOCK OUT POWER SUPPLY.

1. Remove all loose pieces and tools around the compressor installation.
2. Check oil level in crankcase, add as necessary.
3. Check all pressure connections for tightness and leaks.
4. Check to make sure all safety relief valves are in place and operational.
5. Check to be sure all guards are in place and securely mounted.
6. Check fuses, circuit breakers and thermal overloads for proper size.
7. Open all manual shut-off valves (block valves) at and beyond the compressor discharge.
8. On all 3 phase units, after all of the above conditions have been satisfied, jog the starter switch button to check the rotational direction of the compressor. It should agree with the rotation arrow on the flywheel/pulley (counter clockwise, facing the shaft).

The following procedures should be followed for start-up of a new installation, or after changes have been made to an existing installation, and/or after service repair work has been performed.

1. Instructions in addition to those contained within this manual, supplied by manufacturers of supporting equipment, must also be read and understood before start-up.
2. Check oil level in crankcase.
3. Drain moisture from air receiver and traps.
4. Start compressor and watch for excessive vibration or strange noises. If either is observed, stop the compressor immediately and correct.
5. Check air receiver or system pressure.
6. Manually activated safety relief valves by pulling ring or lever.
7. Check operation of controls.
8. After two days of operation check belt tension, air piping for leaks, and crankcase oil level.
Stopping for Maintenance or Service

THE FOLLOWING PROCEDURE SHOULD BE FOLLOWED TO MAXIMIZE SAFETY WHEN PREPARING FOR MAINTENANCE OR SERVICE.

1. Disconnect and lock-out the main power switch and hang a sign at the switch informing of the unit being serviced.

2. Close shut-off valve (block valve) between receiver and compressor, or receiver and Plant air system, to prevent any back-up of air flow into the area to be serviced.

3. Lock open manual vent valve and wait for the pressure in the area to be serviced (compressor, receiver, etc.) to be completely relieved before starting service. The Manual vent valve may be the drain valve in the receiver. NEVER remove a plug to relieve the pressure.

4. Open all manual drain valves within the area to be serviced.

5. Wait for the unit to cool before starting service, (temperatures at 125 degrees F can burn the skin), some surface temperatures exceed 400 degrees F when the compressor is working.

6. Clean up all oils spills immediately to prevent slipping. (Mark spill area accordingly.)

CAUTION

Never assume the compressor is ready for maintenance or service because it is stopped.
The automatic stop-start control may start the compressor at any time!
Maintenance Procedures Review

DAILY:
Drain the Receiver- condensation will accumulate in the tank daily, and should be drained at least once a day. This is done to reduce corrosions of the tank from the inside. Always wear protective eye wear when draining the tank.

Check Pump Oil Level- All units have a sight glass the oil level non running units should be no lower than ½ way on the sight glass if it is lower then you need to add oil until it is at least ½ way up the sight glass.

Check unit for any unusual noise or vibrations.

WEEKLY:
Clean air filter: this will ensure that no dirt or heavy particulate makes its way into the compressors valve assemblies.

Clean external parts of compressor and electric motor: this helps to ensure proper cooling and prevents rust and corrosion on critical parts.

Check safety Valves: this is done to ensure they are not stuck in place and operating properly.

*ELITE UNITS:
Check auto tank drain for proper function

MONTHLY:
Inspect complete air system for leaks: this is done to make sure the compressor does not get out of its duty cycle due to air leak in the system.

Inspect Oil for Contamination: this is done to ensure that harmful deposits do not build up in the oil.

Check belt tension: this is done to ensure the belt do not fail pre-maturely, tighten them as needed to ensure they do not slip. If belts are loose, tighten per instructions on next page. Failure to tighten can cause pre-mature belt failure.

EVERY 3 MONTHS OR 500 HRS (WHICHEVER COMES FIRST):
Change Oil: this is done to ensure that the compressor has proper oil level and that the oil in the machine does not deteriorate past factory specifications.

Inspect Valve assemblies: this is done to prevent premature failure and clean out and carbon that can form in older valves.

*ELITE UNITS:
Clean auto tank drain strainer and check for proper function.

Inspect pressure switch for proper function.

Inspect check valve for proper function and remove any carbon accumulation to prevent premature failure.

*Clean belt guard coolers (if equipped).

STORAGE OF COMPRESSOR:
Before storing the compressor for a prolonged period of time, use a blow gun to clean all debris from compressor. Shut OFF main power and turn OFF disconnect. Drain tank pressure, clean air filter, drain old oil and replace with new oil. Cover the unit to prevent dust and moisture from collecting on the unit.

NOTE: Maintaining proper oil level and performing oil changes at proper intervals is necessary for the proper function of the air compressor system. The best oil for you air compressor is CAS30100 full synthetic reciprocating compressor oil.

Your average vehicle travels 30,000 highway miles in 500 hrs or 15,000 city miles in 500 hrs at 210º F or less. In the same 500 hrs/3 months a reciprocating compressors operating temperature may exceed 350º F.
# Common Maintenance Parts

## CA1(U) PUMP

<table>
<thead>
<tr>
<th>Part</th>
<th>Part Number</th>
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<tr>
<td>Reciprocating Pump Oil</td>
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<tr>
<td>Air Filter Element</td>
<td>IAT-CA-712114</td>
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<tr>
<td>Air Filter Housing</td>
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<td>Air Filter Housing</td>
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## G43 PUMP

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</tr>
<tr>
<td>Air Filter Housing</td>
<td>IAT-CA-712140</td>
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</table>

Part numbers subject to change/update always consult factory prior to ordering

## PUMP OIL CAPACITIES

<table>
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<th>PUMP</th>
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Warranty

Certificate of Limited Warranty

Reciprocating Compressors

All component parts on this compressor installed by the manufacturer are warranted to be free of defects, workmanship and material for a period of one year. Transportation charges are the responsibility of the purchaser. This warranty extends to the original purchaser of the compressor only.

There are NO express warranties except other than those contained in this limited warranty statement.

Covered in the one year period of the warranty are defective parts due to defects in the original part only.

The compressor warranty is void in the cases of abuse, lack of proper service, in correct application, in correct installation, and neglect.

Standard compressor warranty covers defective parts and labor for the one year period.

Industrial Electric stationary compressors may be repaired on site as long as the compressor is not located further than 50 miles from the service center. The purchaser is responsible for any additional travel expense past 50 miles from the service center.

Gas/Diesel engine driven compressors must be repaired at the closest service center to the compressor. The purchaser is responsible for any travel expense if they do not wish to bring the compressor to the service center.

ALL “SPECIALTY COMPRESSOR” WARRANTY SERVICE MUST BE PERFORMED AT THE CLOSEST SERVICE CENTER TO THE COMPRESSOR

Specialty compressor-any compressor package with options other than those that apply to the standard model number in the catalog

The compressor “airend” is covered by a 2 year warranty to be free from defects from manufacturing. This does not cover abuse, neglect, improper service, mis-application, or improper installation. An oil sample must be submitted with any airend warranty claim for verification. The purchaser must use only Compressed Air Systems synthetic rotary screw oil in the compressor for the duration of the warranty.

Airend - the rotors and bearings of the compressor

BEFORE WARRANTY SERVICE IS PERFORMED
CONTACT MANUFACTURER TECH SUPPORT FOR FASTEST SOLUTION

Warranty labor for the first year is only covered for work performed Monday-Friday 8am-5pm excluding all major US holidays

BEFORE WARRANTY SERVICE IS PERFORMED
CONTACT MANUFACTURER TECH SUPPORT FOR FASTEST SOLUTION.
Reciprocating Compressor Installation Sheet

Date of Installation ______________________________ Compressor Model# ________________________________

Installation Company ____________________________ Compressor Serial # ____________________________

Installation Technician __________________________ Compressor Voltage ______________________________

Site Electrical Phase ____________________________ Site Voltage L1 _____ L2 _____ L3 _____

Compressor Electrical breaker size __________________

Incoming Voltage at motor start up L1 _____ L2 _____ L3 _____

Incoming Voltage at max operating pressure L1 _____ L2 _____ L3 _____

Incoming power connected to Magnetic Starter _____

Breaker size for the compressor ____________ AMPS Wire size for the compressor ______________________

Distance from main electric panel ________________ Disconnect installed at the compressors site ________

If Duplex compressor separate disconnects for each drive motor: □ Yes  □ No

Compressor Rotation Correct □ Yes  □ No

Motor amps at max operating Pressure L1 _____ L2 _____ L3 _____

Compressor Max Operating Pressure ______________ Compressor tank drain functional ________________

Unit inspected for Air leaks ______________________ Unit inspected for Oil leaks ______________________

Unit location: □ Indoors  □ Outdoors

Unit tank fill time 0-125psi ________________ (Put N/A if pressure not applicable to installed unit)

Unit tank fill time 0-150psi ________________ (Put N/A if pressure not applicable to installed unit)

Unit tank fill time 0-175psi ________________ (Put N/A if pressure not applicable to installed unit)

Belt tension checked: □ Yes  □ No Vibration Pads properly installed: □ Yes  □ No

All installation steps completed: □ Yes  □ No If no, reason: __________________________________________

____________________________________________________________________________________

____________________________________________________________________________________

Send copy of completed installation sheet to manufacture to begin warranty

Compressed Air Systems, LLC
2626 Skyway Drive
Grand Prairie, TX, 75052

Compressed Air Systems, LLC  1-800-531-9656  Fax 972-352-6364  www.compressed-air-systems.com
## NEC (National Electric Code) Guide Lines

### 1 Phase Motor Requirements
(Copper wire must be THW, THHN-THWN, XHHW) No solid core wire

**NOTE:** Wire size is based on being within 30ft of main electrical panel installation further would need a qualified electrician to properly size the wire to account for voltage drop.

<table>
<thead>
<tr>
<th>Horse Power</th>
<th>Voltage</th>
<th>Instantaneous Trip Circuit Breaker Rating</th>
<th>Circuit Breaker Trip Rating</th>
<th>Minimum Wire Size</th>
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<td>230</td>
<td>90</td>
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</table>

**NOTE:** Some rotary screw compressors have additional drive motors for the cooling fans these need to be taken into account when sizing the electrical system.

### 3 Phase Motor Requirements
(Copper wire must be THW, THHN-THWN, XHHW) No solid core wire

**NOTE:** Wire size is based on being within 30ft of main electrical panel installation further would need a qualified electrician to properly size the wire to account for voltage drop.

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**NOTE:** Some rotary screw compressors have additional drive motors for the cooling fans these need to be taken into account when sizing the electrical system.
WARNING: Always wear proper protective eye ware, hearing protection and safety clothing when working around the compressor package. No loose or baggy clothing should be worn around compressor package at any time.

WARNING: On Electric motor powered air compressors make sure electrical system is up to National Electric Code (NEC) prior to installing compressor system. Failure to install a compressor with a proper NEC electrical system can cause personal injury, compressor package damage and void compressor package warranty.

NOTICE: To ensure full compressor tank warranty all tank mounted compressor packages must be mounted on factory approved vibration isolation pads. A compressor should NEVER be installed while still on or in its original packaging. Failure to properly install the compressor system with approved vibration isolation pads will result in the compressor tank warranty being void.

WARNING: Compressed Air Systems compressors can operate at pressures from 0-250psi depending on the compressor package design and build specifications. Always verify that the system the compressor is installed into can handle the maximum operational pressure the compressor. NEVER install a compressor in a system that can not handle the compressors maximum operating pressure.

WARNING: Compressed air is extremely dangerous when not properly used or installed. Always make sure a trained compressed air professional has looked over the air system prior to use. Improper installation or use of compressed air can cause bodily injury or death. NEVER pressurize an object that was not designed to be pressurized. Pressurizing objects not properly engineered for the maximum operating pressure of the compressor system can cause bodily injury or death.

Additional Information

For compressor pump information see pump specific manual.

For installation instructions see Install Guide.

For compressor package wiring diagram contact manufacturer.

For compressor parts breakdown see website (compressed-air-systems.com) of contact compressor manufacturer.

On electric driven compressors always follow NEC (National Electric Code) on any local applicable code that exceeds NEC guidelines.

On gas/diesel engine driven packages follow engine manufacturer guide for proper placement and installation of engine driven equipment.
Compressed Air Systems, LLC
2626 Skyway Drive
Grand Prairie, TX, 75052
1-800-531-9656
Fax 972-352-6364

Simplicity. It's What We Do.