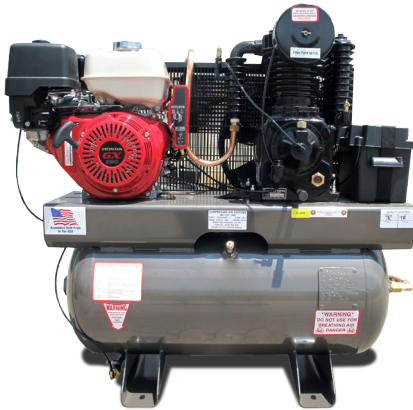
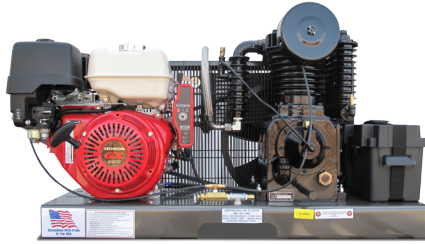
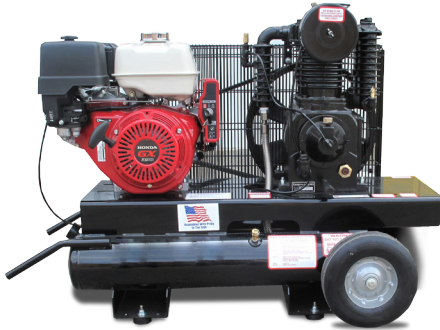


# OWNERS MANUAL

## 8.5-15 HP Gas/Diesel Engine Reciprocating Compressors



**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***

**INDUSTRIAL** *Gold*

Quality Air Compressor at a Great Price.

## **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:** 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.**

**Always make sure compressor drive engine key switch is off and removed from the compressor**

Problem	Possible causes	Solutions
Compressor stalls and dies	<ul style="list-style-type: none"> <li>Drive engine low on fuel</li> <li>Compressor check valve not functioning</li> <li>Compressor pilot valve not functioning</li> <li>Spark plug in engine bad</li> <li>Drive engine low on oil</li> </ul>	<ul style="list-style-type: none"> <li>Check fuel level in drive engine</li> <li>Inspect compressor check valve</li> <li>Check drive engine spark plug</li> <li>Check oil level on compressor drive engine</li> <li>Check oil on compressor pump</li> </ul>
Compressor is running and is not compressing air	<ul style="list-style-type: none"> <li>Compressor air filter is stopped up</li> <li>Compressor solenoid is malfunctioning</li> <li>Compressor intake valve is malfunctioning</li> <li>Compressor belts loose</li> <li>Compressor separator is loose</li> </ul>	<ul style="list-style-type: none"> <li>Check compressor air filter</li> <li>Replace compressor solenoid</li> <li>Check and clean compressor intake valve</li> <li>Check compressor belts</li> <li>Check compressor separator</li> </ul>
Compressor does not idle up for compression	<ul style="list-style-type: none"> <li>Throttle control valve (bullwhip) not engaging</li> <li>Throttle control valve cable broken</li> <li>Drive engine throttle linkage damaged</li> </ul>	<ul style="list-style-type: none"> <li>Check throttle control valve (bullwhip) for proper function</li> <li>Replace throttle control valve</li> <li>Check drive engine throttle linkage</li> </ul>
Compressor air end bogs down while compressing air	<ul style="list-style-type: none"> <li>Compressor belts loose</li> <li>Compressor pulley worn</li> </ul>	<ul style="list-style-type: none"> <li>Check belts for wear</li> <li>Check pulley for wear</li> </ul>

## Troubleshooting Chart (continued)

**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.**

**Always make sure compressor drive engine key switch is off and removed from the compressor**

Problem	Possible causes	Solutions
Excessive oil discharge in air (all compressors have a small amount of oil carry over in compression)	Compressor separator deteriorated Compressor runs unloaded for extended period of time Compressor scavenge line stopped up	Replace compressor separator Check unloaded time of compressor Check compressor scavenge line for blockage
Compressor overheating	Poor ventilation Dirty cooling surfaces Compressor is out of its operating duty cycle	Relocate compressor to any area with better ventilation (at least 18 inches from the nearest wall) Clean all cooling surfaces Reduce compressor duty cycle (repair leaks or add another unit to handle the excess demand)
Excessive belt wear	Pulley out of alignment Improper belt tension Pulley damaged or loose	Realign pulley with flywheel Re adjust belt tension
Compressor won't start in cold weather	Engine oil improper viscosity for temperature Control lines frozen	Check for proper viscosity for ambient temperature Move compressor to a warmer location
Compressor has excessive vibration	Compressor is not properly mounted on vibration isolation pads Compressor pulley is out of alignment Engine is low on fuel or throttle is out of adjustment	Properly mount compressor on vibration isolation pads Re-align pulleys Check drive engine oil and fuel level Re-adjust engine throttle control (bull whip)

## Troubleshooting Chart (continued)

**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.**

**Always make sure compressor drive engine key switch is off and removed from the compressor**

Problem	Possible causes	Solutions
Compressor Stalls and Dies	Drive engine low on fuel Compressor check valve not functioning Compressor Pilot valve not functioning Spark Plug in Engine bad Drive engine Low on oil	Check fuel level in drive engine Inspect compressor check valve Check drive engine spark plug Check oil level on compressor drive engine Check oil on compressor pump
Compressor is running and is not compressing air	Compressor Pilot valve is actuated Compressor pilot valve is malfunctioning Compressors pump head unloaders stuck engaged	Check pilot valve to make sure it in the proper position Replace compressor pilot valve Check and clean compressor pump head unloaders
Compressor does not idle up for Compression	Throttle control valve (bullwhip) not engaging Throttle control valve cable broken Drive engine throttle linkage damaged	Check throttle control valve (bullwhip) for proper function Replace throttle control valve Check drive engine throttle linkage
Compressor Pump Knocking	Loose motor pulley or compressor flywheel Low oil level in compressor pump Carbon build up on valve and piston	Tighten pulley or flywheel Keep oil level at recommended level for proper operation Only use factory recommended oil

## 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

### 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

### EVERY 3 MONTHS OR 500HRS (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

### 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.

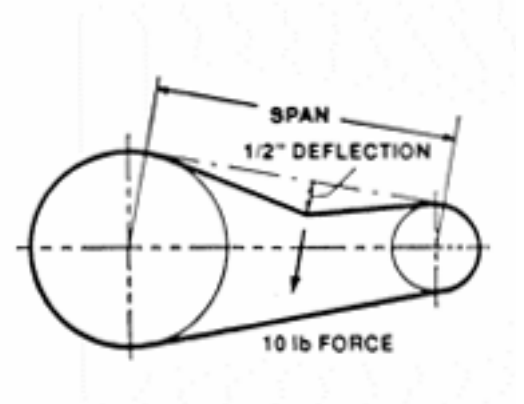
If commressor will be unused fro extended period of time (7 days or more) disconnect battery to extend battery life and proper charge

## 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 1/2 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 bolts
5. Check to ensure that the tension remain correct after tightening
6. Re-install the belt guard. All moving parts must be guarded

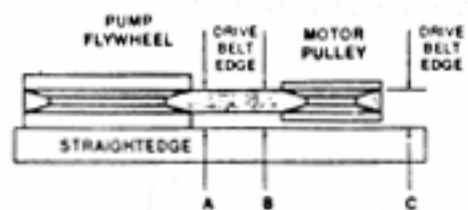
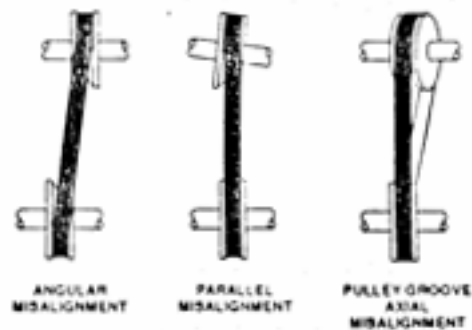
NOTE: Drive belt tension and pulley alignment are done at the same time. They are discussed separately for clarity.



## 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 (cut in).

## 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:** 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



**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 of 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.



**Safety valves are to protect system integrity in accordance with ASME Codes and ANSI B19.3 safety standards. Failure to use safety valves of the proper capacity and pressure will cause severe personal injury or death.**

**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.**

**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 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.

**CAUTION**

Relieve compressor and system air pressure by opening the appropriate manual relief valve prior to servicing.

Failure to relieve all system pressure may result in severe personal injury, death and property damage.

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

### **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.



**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.**

### **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.

**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.**

## 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/FUEL 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.

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. Run the compressor for one half hour, unloaded and change the oil after the first 8 hours of use.
9. After two days of operation check belt tension, air piping for leaks, and crankcase oil level.

## Stopping for Maintenance or Service

	<p><b>Never assume the compressor is ready for maintenance or service because it is stopped.</b></p> <p><b>The automatic stop-start control may start the compressor at any time!</b></p>
--	---

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

1. Turn compressor drive engine key switch off and remove key from compressor.
2. Close shut-off valve (block valve) between receiver and compressor, or receiver and
3. air system, to prevent any back-up of air flow into the area to be serviced.
4. Disconnect battery connection to compressor drive engine
5. 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.
6. Open all manual drain valves within the area to be serviced.
7. 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).
8. Clean up all oils spills immediately to prevent slipping. (Mark spill area accordingly.)

## Common Maintenance Parts

CA1(U) PUMP	Part Number
Reciprocating Pump Oil	IAT-30100
Air Filter Element	IAT-CA-712114
Air Filter Housing	IAT-CA-712140

CA2(U) PUMP	Part Number
Reciprocating Pump Oil	IAT-30100
Air Filter Element	IAT-CA-712114
Air Filter Housing	IAT-CA-712140

G43 PUMP	Part Number
Reciprocating Pump Oil	IAT-30100
Air Filter Element	IAT-CA-712114
Air Filter Housing	IAT-CA-712140

PUMP OIL CAPACITIES	Ounces
CA1(U)	50
CA2(U)	60
G43	132
462	240
LDV95T	30
LDV80	30
LDV65	22
LDV51	22

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



## 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 corrossions 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

### 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

### EVERY 3 MONTHS OR 500HRS (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

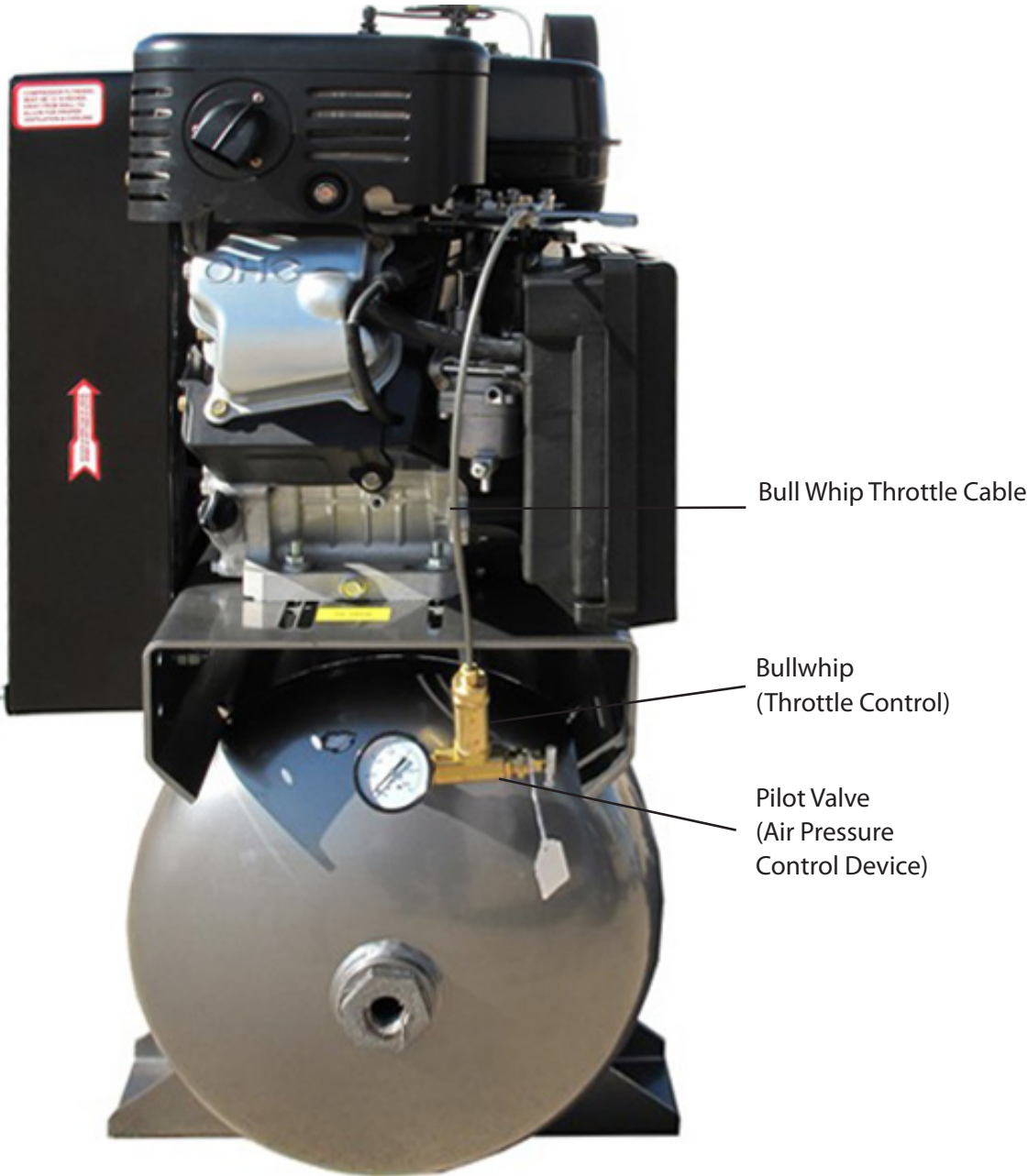
Inspect Valve assemblies: this is done to prevent premature failure and clean out and carbon that can form in older valves

### 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.

If commressor will be unused fro extended period of time (7 days or more) disconnect battery to extend battery life and proper charge

8.5-15 HP Gas and Diesel Engine Driven Compressors



INDUSTRIAL GOLD

# WARRANTY

C E R T I F I C A T E   O F   L I M I T E D   W A R R A N T Y

## 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. The purchaser must use Compressed Air Systems synthetic reciprocating compressor oil in the compressor for the duration of the compressor warranty.

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 case 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, Single stage stationary, and Contractor series 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

**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

**Optional 6 year Industrial reciprocating pump only warranty**

To be applicable for this option purchaser must purchase the Full Year reciprocating compressor maintenance kit at the same time as the compressor. A subsequent kit must be purchased every 12 months from the date of the original purchase for a total of 6 kits during the warranty of the period of the pump. The purchaser must use only Compressed Air Systems synthetic reciprocating compressor oil in the compressor for the duration of the compressor warranty.

The warranty covers the Industrial reciprocating pump for a period of 6 years parts replacement only for any part with a defect from the manufacturer, excluding the compressor valves which carry the same 1 year standard warranty. The warranty does not cover standard wear and tear on parts, abuse, neglect, improper service, misapplication, and improper installation. The purchaser is responsible for any freight/shipping expense incurred.

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

## 8.5-15 HP Gas and Diesel Engine Driven Compressors

### Gas-Diesel Engine Reciprocating Installation Sheet

Date of Installation \_\_\_\_\_ Compressor Model# \_\_\_\_\_

Installation Company \_\_\_\_\_ Compressor Serial # \_\_\_\_\_

Installation Technician \_\_\_\_\_

Drive Engine:  Gasoline  Diesel  Natural Gas

Location of Install:  Truck Body Open  Van  Trailer  Box Truck  Other \_\_\_\_\_

Auxiliary fuel Tank needed \_\_\_\_\_ Auxiliary Fuel pump needed \_\_\_\_\_

Wiring extension added:  Yes  No

Wiring extension Technician \_\_\_\_\_

Compressor package inspected for air leaks:  Yes  No

Compressor tank drain checked for function:  Yes  No

Unit install location in weather proof enclosure:  Yes  No

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 after startup:  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

Industrial Gold Air Compressors

2626 Skyway Drive

Grand Prairie, TX, 75052

## **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](http://compressed-air-systems.com)) or 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.





# **INDUSTRIAL** *Gold*

**Quality Air Compressor at a Great Price.**

2626 Skyway Drive  
Grand Prairie, TX, 75052  
417-206-6353  
800-531-9656  
Fax - 417-206-6336