



VANAIR®
A Lincoln Electric Company

PRO 25 ➤

**GAS ENGINE DRIVEN
RECIPROCATING AIR COMPRESSOR**
Manual No. 090224_r0



USER GUIDE

INSTALLATION/OPERATION MANUAL AND SERVICE PARTS LIST

NOTE: Read this manual before installing, operating or servicing this equipment. Failure to comply with the operation and maintenance instructions in this manual will VOID THE EQUIPMENT WARRANTY.

This publication contains the latest information available at the time of preparation. Every effort has been made to ensure accuracy. Vanair®, a Lincoln Electric Company reserves the right to make design change modifications or improvements without prior notification.

Making unauthorized modification to the system components WILL VOID THE WARRANTY! Always contact Vanair® before making any changes to the PRO 25 Compressor.

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EFFECTIVE: SEPTEMBER 9, 2022



VANAIR® VANTAGE WARRANTY

This limited warranty supersedes all previous Vanair® warranties and is exclusive with no other guarantees or warranties expressed or implied.

LIMITED WARRANTY—Subject to the expressed terms and conditions set forth below, Vanair®, a Lincoln Electric Company ("Vanair"), of Michigan City, Indiana (USA), warrants to the original retail purchaser of new Vanair® equipment that such equipment is free from defects in materials and workmanship when shipped by Vanair®.

For warranty claims received by Vanair® within the applicable warranty periods described below, Vanair® will repair or replace any warranted equipment, parts or components that fail due to defects in material or workmanship or refund the purchase price for the equipment, at Vanair's discretion. Vanair® is not responsible for time or labor to gain access to the machine to perform work. **WARRANTY WILL BE VOID IF GENUINE VANAIR® PARTS AND FLUIDS ARE NOT USED.**

Vanair® must be notified in writing within thirty (30) days of any such defect or failure. **All warranty or returns must be pre-authorized in writing prior to performing warranty work.** Call Vanair® for process and forms. Vanair® will provide instructions on the warranty claim procedures to be followed.

Warranty will commence upon receipt of the Warranty Registration Card. If the Warranty Registration Card is not received within six (6) months of shipment from Vanair®, the warranty commencement date shall be thirty (30) days from the date of shipment from Vanair®. Records of warranty adherence are the responsibility of the end user.

1. Lifetime Warranty Parts – 3 Years Labor
 - Rotary Screw Air Compressor Air End
2. 6 Years Parts – 3 Years Labor
 - Vanair® Super Capacitor™ (VSC™)
3. 3 Years Parts – 1 Year Labor
 - Reciprocating Compressor Air End
 - Generators
 - Welders
4. 2 Years Parts – 1 Year Labor
 - Hydraulic Motors
 - Hydraulic Pumps
5. 1 Year Parts – 1 Year Labor
 - All electronics including, but not limited to:
 - (i) I/O Boards
 - (ii) Modules
 - (iii) Panel Boxes
 - (iv) Instrumentation
 - Solenoids
 - Clutches
 - Running Gear/Trailers
 - Compressor/Hydraulic Coolers, including Fan and Radiator Core

This Limited Warranty shall not apply to:

1. Consumable components, such as shaft seals, valves, belts, filters, capacitors, contactors, relays, brushes or parts that fail due to normal wear and use.
2. Items furnished by Vanair®, but manufactured by others, such as engines and trade accessories (these items are covered by the manufacturer's warranty, if any).
3. Equipment that has been modified by any party other than Vanair® or equipment which has not been used and maintained in accordance with Vanair's specifications.
4. Equipment which has been improperly installed and/or improperly operated, based upon Vanair's specifications for the equipment or industry standards.

5. Equipment installed by non-authorized or third party personnel. Vanair® products are intended for purchase and use by commercial/industrial users and persons trained and experienced in the use and maintenance of industrial equipment.

In the event of a warranty claim covered by this Limited Warranty, the exclusive remedies shall be, at Vanair's sole discretion: (i) repair; or (ii) replacement; (iii) where authorized in writing by Vanair® in appropriate cases, the reasonable cost of repair or replacement at an authorized Vanair® service facility; or (iv) payment of (or credit for) the purchase price (less reasonable depreciation based upon actual use) upon return of the equipment at the warranty claimant's risk and expense. Vanair® will pay standard ground freight for any warranty item shipped to and from Vanair® or (Vanair® designated facility) within the first year of the applicable warranty period. Any additional expedited freight cost is the responsibility of the purchaser.

TO THE GREAT EXTENT PERMITTED BY APPLICABLE LAW, THE REMEDIES PROVIDED HEREIN ARE THE SOLE AND EXCLUSIVE REMEDIES APPLICABLE TO THE VANAIR® EQUIPMENT. IN NO EVENT SHALL VANAIR® BECOME LIABLE FOR DIRECT, INDIRECT, SPECIAL, PUNITIVE, INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING LOSS OF PROFIT OR LOST BUSINESS OPPORTUNITY), WHETHER BASED ON CONTRACT, TORT OR ANY OTHER LEGAL THEORY. IN NO EVENT SHALL VANAIR® BECOME OBLIGATED TO PAY MORE ON ANY WARRANTY CLAIM THAN THE PURCHASE PRICE ACTUALLY PAID BY THE ORIGINAL RETAIL PURCHASER.

THIS LIMITED WARRANTY IS MADE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE, OR ANY OTHER WARRANTY OR GUARANTY ARISING BY OPERATION OF LAW. ANY WARRANTY NOT EXPRESSLY PROVIDED HEREIN, IMPLIED WARRANTY, GUARANTY AND ANY REPRESENTATION REGARDING THE PERFORMANCE OF THE EQUIPMENT, AND ANY REMEDY FOR BREACH OF CONTRACT, IN TORT, OR ANY OTHER LEGAL THEORY WHICH, BUT FOR THIS PROVISION, MIGHT ARISE BY IMPLICATION, OPERATION OF LAW, CUSTOM OF TRADE, OR COURSE OF DEALING ARE EXCLUDED AND DISCLAIMED BY VANAIR®.

Some states in the United States of America do not allow limitations of how long an implied warranty lasts, or the exclusion of incidental, indirect, special or consequential damages, and as such, the above limitations and exclusions may not apply to you. This warranty provides specific legal rights. Other rights may be available to you, but may vary from state to state.

In Canada, legislation in some provinces provides for certain additional warranties or remedies other than as stated herein, and to the extent that they may not be saved, the limitations and exclusions set out forth above may not apply. This Limited Warranty provides specific legal rights, and other rights may be available, but may vary from province to province.



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Warranty Claims Procedure

Warrantied Vanair® Parts

Owners of Vanair® equipment must follow this process for repair or replacement of warrantied items. Do not return items without prior authorization from the Vanair® Warranty Administrator.

PROCEDURE: Customers needing assistance in troubleshooting a system and/or returning parts, please follow the steps below.

1. Locate the machine's serial number(s).
2. Make a list of the symptoms/condition/malfunctions noticed along with any applicable temperature and pressure readings, and also the number of operational hours if available.
3. Note that the above information is required on the Return Material Authorization Form; necessary for warranty processing if the warranty claim is deemed valid by the service case review.
4. Contact the Vanair® Service Department by phone (1-844-VANSERV or 1-219-879-5100) to speak with a Service Technician.
5. Vanair® Service will troubleshoot the problem based on the information provided by the customer, and attempt to return the unit to service as quickly as possible.
6. If the unit cannot be returned to service, and Vanair® determines this matter is a warranty issue, the Service Technician will provide a case number for the unit. The Warranty Department will then assign an RMA (Return Material Authorization) number that will provide for the return of the item to Vanair® for analysis and a final determination as to the item's warranty status.

7. Warranty Claims are solicited via a case number provided by the Vanair® Service Department. Blank Warranty Claim forms can be found on the Vanair® website under the Resources section.

All of the field information including the case number, serial number and description of the work performed is required.

IMPORTANT NOTES:

If the part is not returned by the customer to the Vanair® Service Department within 30 days, the RMA becomes void and any claims will be denied.

All labor claims or invoices must be approved by the Vanair® Warranty Administrator prior to starting repair work along with the cost of the repair. All paper work associated with the returned item and warranty repair cost must reference the RMA number issued against the part, and be forwarded to Vanair® within 30 days of the completion of work.

The RMA number must appear on the outside of the package where it can be seen before being returned.

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SECTION 1: Safety

1.1 GENERAL INFORMATION

The products provided by Vanair®, are designed and manufactured for safe operation and maintenance, but ultimately, it is the responsibility of the operators and maintenance personnel to use this equipment safely. Part of that responsibility is to read and be familiar with the contents of this manual before operation or performing maintenance actions.

1.2 SUMMARY OF DANGERS, WARNINGS, CAUTIONS, AND NOTES

These notifications are placed throughout the manual in the sections where they apply. This subsection is a general summary of their contents.

1.2.1. DANGERS

DANGER

Indicates someone will be seriously injured or killed if this safety information is not followed.

- **DO NOT** operate in an enclosed space. Running any combustion engine in an enclosed space may result in carbon monoxide (CO) poisoning and may cause overheating, which may result in fire and/or explosion. Carbon monoxide (CO) build-up may cause death! Overheating can ignite surrounding materials resulting in fire and/or explosion.
- To reduce risk of fire or explosion, use caution when working around gasoline (petrol). Use only non-flammable solvents to clean parts (not gasoline). Keep cigarettes, sources of electrical sparks, open flames away from all fuel related parts.
- Keep tools or other conductive objects away from live electrical parts.
- **DO NOT** touch electrical wires or components while the machine is operating. They can be sources of electric shock

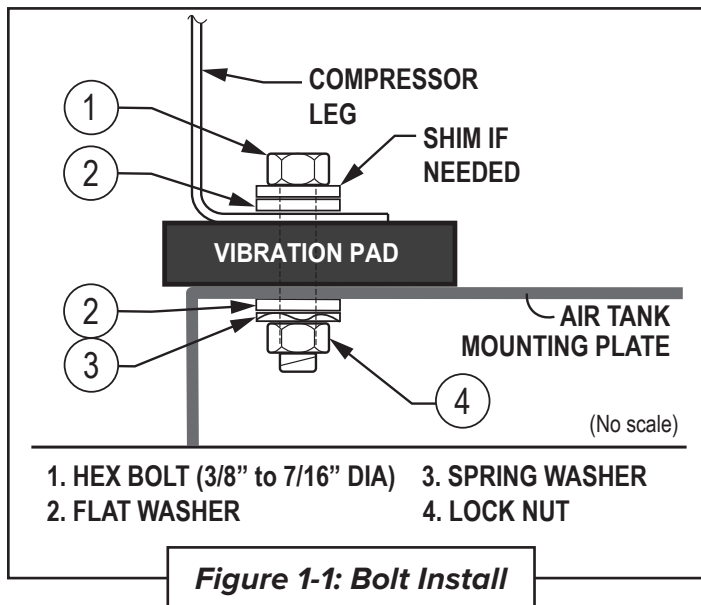
1.2.2. WARNINGS

WARNING

Identifies actions or conditions which, if not avoided, could cause death or severe bodily injury.

- **NEVER** use air from this compressor as a source of breathable air. Vanair disclaims any and all liabilities for damages, due to fatalities, or personal injury resulting from the use of a Vanair® compressor to supply breathable air.
- **DO NOT** operate compressor if damaged during shipping, handling or use. Damage may result in bursting and cause injury or property damage.
- **DO NOT** perform any modifications to this equipment without prior factory approval.
- **DO NOT** operate the compressor or any of its systems if there is a known unsafe condition. Disable the equipment by disconnecting it from its power source.
- Install a lock-out tag to identify the equipment as inoperable to others until it can be repaired or replaced.
- **DO NOT** operate the compressor with any safety by-pass, safety systems disabled or rendered inoperative.
- **DO NOT** operate this equipment while you are under the influence of alcohol, drugs, or medications that may have any affect on your physical capabilities or judgment.
- **DO NOT** operate the equipment while you are feeling ill.
- **DO NOT** attempt to service the equipment while it is operating!
- **NEVER** use plastic (PVC) pipe for compressed air. Serious injury or death could result.
- Keep fingers away from running compressor. Fast moving and hot parts may cause injury and/or burns.

- Avoid injury. Be careful when touching the exterior of the compressor, pump, motor and air lines - as they may become extremely hot during normal operation.
- This compressor is extremely top heavy. The Pro 25 system needs to be securely bolted to the floor or permanent base surface using bolts and vibration pads prior to use to prevent equipment damage, personal injury or death. *(Refer to Figure 1-1 for proper installation.)*



- **DO NOT** over-tighten bolts as this may stress the tank welds.
- **NEVER** operate the compressor with the belt guard removed. The compressor automatically maintains air pressure and may start without warning. Personal injury or property damage may occur from contact with rotating or moving parts.
- Use of a mask or respirator per chemical manufacturer's instructions may be required if there is a chance of inhaling toxic fumes. Carefully read instructions for using your mask or respirator. Consult a safety expert if you are not sure about the use of certain masks or respirators.

1.2.3. CAUTIONS

CAUTION

Identifies actions or conditions which may cause minor injury, or damage to the equipment.

- Be aware that the compressor and parts may remain hot for a period of time even when the machine is not running.
- All electrical connections should be made by a qualified electrician.

1.2.4. NOTICES

NOTICE

Emphasizes important information that may be helpful, crucial or required by the user to operate the equipment properly.

- **ALWAYS** shut off the gas valve before moving gas powered compressors.
- Gasoline driven compressors must be operated outdoors, sheltered from the weather.

1.3 IMPORTANT SAFETY INSTRUCTIONS

1. Improper operation or maintenance of this equipment could result in personal injury and/or property damage.
2. Please read and understand all warnings and operating instructions.

1.4 THINGS TO KNOW

Only those familiar with this information regarding the safe operation should use this air compressor.

1. Read the manual carefully. Become familiar with the safety precautions and the controls for the correct use of this compressor system.
2. Review the maintenance methods for this system *(see Section 5: Maintenance)*.
 - Keep your work area clean.
 - Floors should be kept free from slippery conditions such as dust, and wax.
3. Check the compressor.
 - To prevent accidental start-up, turn the switch to the **OFF** position and disconnect power before inspecting the equipment.

- If any parts are found to be damaged, broken or missing, do not use. Repair or replace any affected parts or connections before use.
- Check all hoses for wear, cracks or breaks. Check hose connections to make sure they are secured properly. Do not use if worn or broken hoses are found. These should be replaced before continued use.
- Check for leaks. If there are signs of leaking fuel or oil, we strongly suggest fixing the source of the leak before use, as it could become a fire hazard or cause damage to the equipment. Clean up and spills with a rag and dispose of in accordance with all applicable regulations.

1.5 REDUCE RISK OF A DANGEROUS WORK ENVIRONMENT

1. Keep work area well lit.
2. Only operate the compressor in a well-ventilated area, free from flammable liquids and vapors.
3. Operate the compressor in a ventilated area to allow adequate cooling air for the compressor and engine during use. Surrounding air should not exceed 100°F (37.8°C).
4. **DO NOT** use the compressor in a wet environment.
5. Protect material lines and air hoses from damage cuts, and punctures. Keep all hoses and wires away from sharp objects, chemical spills, oil, solvents and wet floors.

1.6 BEFORE EACH USE

1.6.1. INSPECT YOUR WORK AREA

- Keep work area clean. Cluttered work areas contribute to accidents.
- Keep the floor clean. Dust, wax and other debris can be a hazard and cause the floor to become slippery.

1.6.2. INSPECT YOUR COMPRESSOR

- To reduce the risk of injury from accidental starting, place switch in the **OFF** position and disconnect power. Disconnecting the engine spark plug is an additional way to keep compressor from starting.
- If any parts are missing, broken or damaged in any way or if electrical components are not working properly, keep the compressor **OFF** and disconnect power. **DO NOT** use if a defect is found until the issue is repaired or damaged part is replaced.
- Check hoses for wear or damage. Make sure all connections are secure. **DO NOT** use if a defect is found.

1.7 ELECTRICAL CONNECTION SAFETY PRECAUTIONS

1. Follow all applicable 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 the same electrical codes and current capacity and be properly grounded.
3. Protect wiring from sharp edges and objects.

1.8 PROTECT EYES, HANDS, FACE AND EARS.

1. Wear safety glasses (meeting ANSI Z87.1 or Canada CSA Z94.3-99) and use hearing protection when operating this unit.
2. Wear shoes to prevent shock hazards.
3. **DO NOT** operate the machine wearing loose jewelry or clothing (i.g. Loose sleeves, scarves, ties, necklaces or bracelets). Tie long hair back to avoid entanglement with moving and rotating parts.

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SECTION 2: Specifications

2.1 PRO 25 SPECIFICATIONS

Engine Type:	Honda GX270, 8.4 HP 4-stroke single cylinder; OHV petrol engine; 25° Inclined Cylinder; Horizontal Shaft
Cylinder Sleeve Type:	Cast Iron Sleeve
Bore & Stroke:	3.03 in x 2.28in (77mm x 58mm)
Displacement:	16.476 in2 (270 cm2)
Compression Ratio:	8.5 : 1
Gross Power	8.4 HP (6.3 kW) / 3600 rpm
Net Power:	6.8 HP (5.1 kW) / 3600 rpm
Max. Net Torque:	14.08 ft/lbs / 2500 rpm (19.1 Nm [1.94 kgfm] / 2500 rpm)
Ignition System:	Digital CDI with Variable Ignition Timing
Starter:	Recoil (elec. Start optional)
Fuel Tank Capacity:	1.4 gal. (5.3 L)
Fuel Consumption at Cont. Rated Power	0.63 gal./h - 3600 rpm (2.40 L/h - 3600 rpm)
Engine Oil/ Capacity:	1.16 qt. (1.10 L) • SAE 10W-30 API SJ or later for general use. • Use SAE 5-30 - 5W-30 Full Synthetic for use in colder climates down to 5°F (-15°C)
Engine Dimensions:	15.0" L x 16.9" W x 16.6" H (381mm x 428 mm x 422 mm)

Engine Dry Weight:	56.9 lb. (25.8 kg)
Recommended Battery for Electric Starter	12V/14Ah ~ 12V/30Ah
Recommended Fuel:	Unleaded Gasoline; Pump Octane 86 or higher
Spark Plug:	BPR6ES (NGK) W20EPR-U (DENSO)
Spark Plug Gap:	0.7-0.8 mm (0.028 - 0.031 in.)
Compressor Type:	Reciprocating
CFM @ 100 PSI:	25 CFM
Air Pressure:	Up to 175 PSI
Receiver Tank Capacity:	30 Gallons
Compressor Oil:	Vanguard Reciprocating compressor oil; Part No. 271856-QT
Displacement:	19.6 CFM @ 800 rpm (554 LPM @ 800 rpm)
Displacement:	25.7 CFM @ 1050 rpm (727 LPM @ 1050 rpm)
Maximum Pressure:	170 psi (12 Bar)
Working Pressure:	145 psi (10 Bar)
Compressor only Gross Wt.	66.9 lbs. (30.4 kg)

2.2 PRO 25 SYSTEM WEIGHT & DIMENSIONS:

- Net Weight: 314 lbs. (142 kg)
- Ship Weight: 344 lbs. (156 kg)
- Overall Dimensions:
40.64" L x 17.73" W x 42.01" H
(103.2 cm x 45 cm x 106.7 cm)

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SECTION 3: Installation

3.1 MACHINE PACKAGE RECEIPT/ INSPECTION

Upon receipt of the machine package, inspect the exterior of the shipping crate for signs of shipping/transit damage. Any damage should be reported immediately to the shipping company.

3.2 CONSIDERATIONS DURING INSTALLATION

1. Plan for a minimum clearance of 18 inches (45.72 cm) between the compressor and any surfaces or walls to avoid obstructing air flow and protect from hot components from the compressor during use.
2. **DO NOT** install or operate air compressor in a wet environment.
3. Air compressors and gas engines get hot during normal operation, and may become a source of ignition. **DO NOT** store flammable materials, liquids or gases near an operating compressor.
4. The air compressor requires fresh intake air to operate. **DO NOT** locate the compressor air inlets near steam, paint spray, sandblasting operations, or any other source of air contamination. Airborne debris may damage the compressor motor and the pump.
5. If connecting the optional electric starter, plan for a safe and sturdy location of a 12V battery where it should be in close proximity to the engine for wiring.

3.3 MOUNTING HOLE PATTERN

Bolt hole pattern for mounting the Vanairs® Pro 25 Compressor unit is rectangular:

20" O.C. x 14" O.C. x Ø0.6 (4x). (See Figure 3-1.)

NOTICE

Before fully unpacking the unit, inspect the components parts, supports and any loose-packed items to ensure there have been no unwanted movement of assemblies and parts that may have become damaged during shipping.

Should any damage be discovered during package inspection, contact the shipping company immediately.



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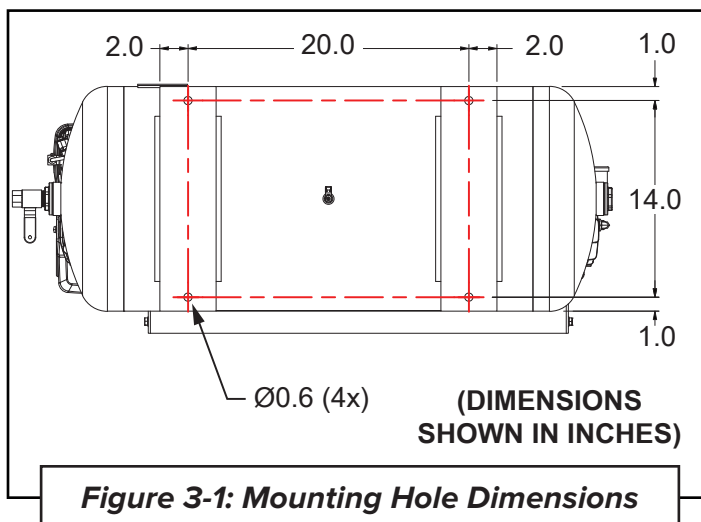
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Parts Fax: (219) 879-5340
Sales Fax: (219) 879-5800

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3.4 ELECTRICAL CONNECTIONS

1. Follow all applicable 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 the same electrical codes and current capacity and be properly grounded.
3. Protect wiring from sharp edges, pointed objects, oil, chemicals or wet floors which can cause damage, short circuits and broken wires.

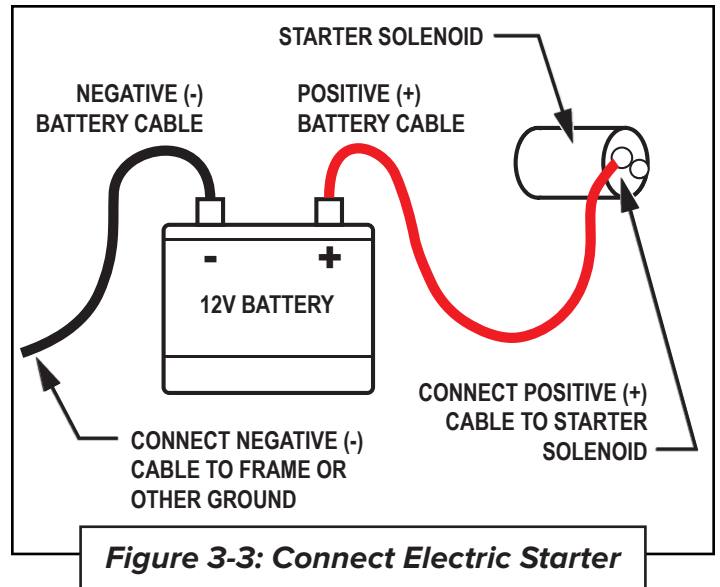
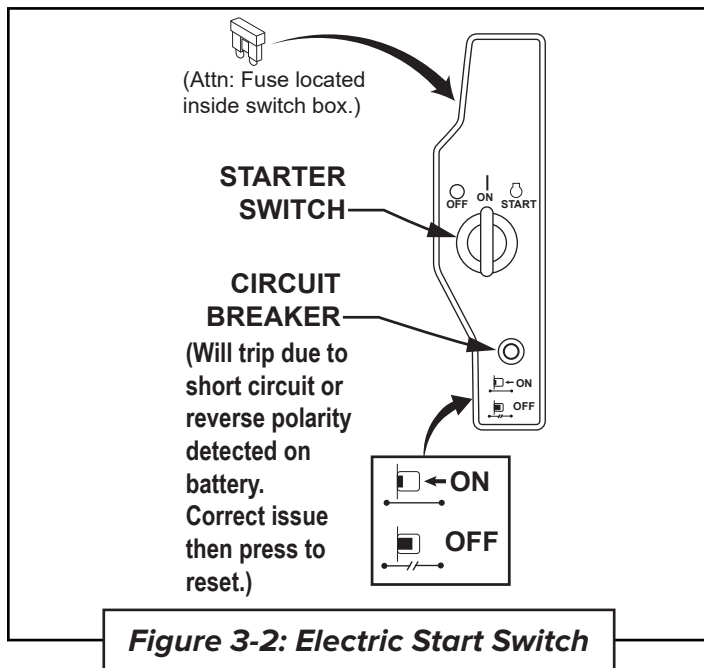
CAUTION

All electrical connections should be made by a qualified electrician.

3.4.1. WIRING THE (OPTIONAL) ELECTRONIC IGNITION

The Pro25 ships with an electric start module. This can be wired to a 12V battery (*see Section 2: Specifications*). System can also be started manually without the electronic starter.

The battery, and wiring leads are required to make use of the electronic ignition feature and are NOT included with this system. These must be supplied by the purchaser. Wiring the optional electronic ignition should be performed by a qualified electrician.



NOTE: There is a blade-type fuse located inside the electronic ignition switch box that can burn out under certain conditions and require replacement. Please refer to your Honda GX270 owner's manual for detailed information regarding checking and replacing this fuse.

Optional Battery Specification:

12V-14 Ah ~ 12V- 30 Ah.

3.4.2. OPTIONAL ELECTRIC STARTER CONNECTIONS

WARNING

Lead-Acid Batteries contain sulfuric acid, which is poisonous and highly corrosive. This can cause serious burns if in contact with exposed skin and eyes. Always wear protective gloves and eye protection.

Additionally, gases from lead-acid type batteries are harmful and can cause explosion.

KEEP CHILDREN AWAY FROM THE BATTERY.

WARNING

As the name implies - Lead-Acid type batteries contain lead. Battery posts, terminals, and related components may contain lead or lead compounds.

Wash hands thoroughly after handling.

1. When working with lead-acid type batteries, follow all warnings and directions from the battery's manufacturer for safe handling.

2. Connect the positive cable to the starter solenoid terminal. (See *Figure 3-4* for location.)

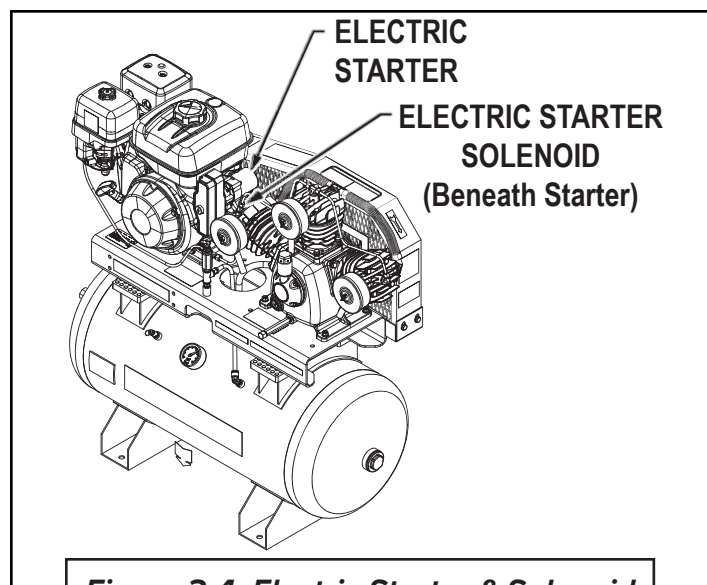


Figure 3-4: Electric Starter & Solenoid

3. Connect one end of the negative cable to an engine mounting bolt, a frame bolt or a good ground connection.
4. Connect the other end of the positive cable to the battery's positive terminal.
5. Connect the remaining negative cable end to the battery's negative terminal.
6. To help protect the exposed connections - it is recommended to coat the terminals and cable ends with dielectric grease.
7. (See the *Honda GX270 Owner's Manual* for more detailed information.)

DANGER

DO NOT OPERATE IN AN ENCLOSED SPACE.

Running any combustion engine in an enclosed space may result in carbon monoxide (CO) poisoning.

Carbon monoxide (CO) build-up may cause death!

Overheating can ignite surrounding materials resulting in fire and/or explosion which may cause injury, death and equipment damage.

WARNING

This compressor is extremely top heavy. The Pro 25 system needs to be securely bolted to the floor or sturdy deck using bolts prior to use to prevent equipment damage, personal injury or death. **DO NOT** over-tighten bolts between system and air tank as this may stress the tank welds. Anti-vibration pads between deck & tank are recommended but optional. (Refer to *Figure 3-3* for proper installation.)

WARNING

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

WARNING

DO NOT secure this compressor to vertical surfaces, such as drywall, using toggle bolts. Drywall and plaster will not support the weight of this compressor unit.

NOTE: Anti-Vibration mounting pads greatly reduce vibration caused by the PRO 25 during use. Pads are installed between the compressor and the air receiver tank, but can also be purchased separately to place between the tanks stand offs and the deck it is being mounted to.

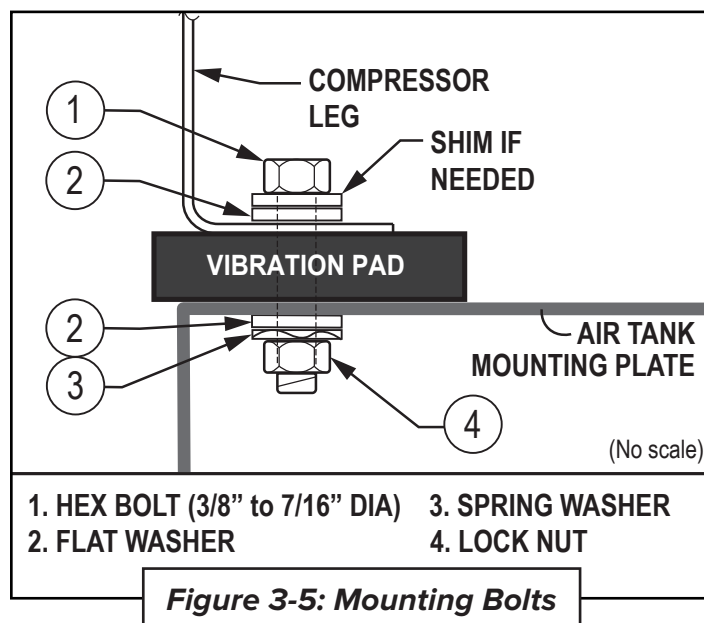


Figure 3-5: Mounting Bolts

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SECTION 4: Operation

4.1 THINGS YOU SHOULD KNOW

Air compressors are used in a variety of applications. Compressors operate as a high-pressure pumping system using hoses, connectors, air tools, spray guns, etc. Always use caution and follow safety precautions at all times during use.

4.2 WHILE OPERATING

1. **DO NOT** exceed the pressure rating of any component used in the system.
2. When releasing tank pressure, open service valve slowly to prevent flying dust and debris. Wear eye and hearing protection.
3. If the equipment vibrates abnormally, **STOP** the compressor immediately and inspect for possible cause.

WARNING

Never change the safety valve or pressure switch settings. Keep safety valve free of paint and other substances that could accumulate and interfere with the valve's proper operation. See the compressor specification decal for maximum operating pressure. Never operate with the pressure switch set higher than the maximum operating pressure.

4.3 BEFORE FIRST USE

1. Be familiar with safe operation procedures before operating this equipment. Review and understand all safety instructions and operating procedures in this manual (see **Section 01 Safety**).
2. Read the instruction manual carefully before attempting to assemble, disassemble or operate this system.

4.4 INSPECT WORK AREA

1. Keep your working area clean.
2. Cluttered areas and benches invite accidents. Keep floors clean of dust, oil, wax or loose debris that may cause it to become slippery.

4.5 PREPARING COMPRESSOR FOR USE

Before starting the compressor check the following:

1. Check on and around the compressor unit for signs of damage, loose or missing parts (such as fasteners or connectors), and leaks.
2. Remove any excessive dirt and debris - especially near the exhaust and starter.
3. Compressor Oil: The oil level in the compressor sight glass should indicate 1/2 full. **DO NOT** operate with low oil level. If low, add oil to bring level to 1/2 full or slightly above.
4. Engine Oil: The oil level in the engine crank case should be within the upper and lower limit cutout area shown on the dipstick. **(See the Honda engine manual for detailed information on checking and maintaining the engine oil.)** The engine is equipped with an auto shut off feature should the engine oil fall below a safe level. **NOTE:** The key will remain in the ON position if auto-shutoff feature is triggered. Add engine oil per specification outlined in the engine manual.
5. Make sure rags, tools, oil, etc. are kept away from the unit.
6. Slowly open the service valve on the tank to relieve any air pressure from the system. (This is a good opportunity to drain moisture from the receiver tank if needed. Close tank's drain valve after draining.)
7. If disconnected for inspection or maintenance, make sure the power and spark plug are reconnected.
8. To start the engine, open the choke by moving the lever all the way to the left.
9. Open the gas valve by moving the gas lever all the way to the left.

10. If equipped with optional electric starter - turn the key on the engine control panel to the start position. (Or pull the handle of the recoil starter for systems without the optional electric start enabled.). For the very first start up, observe the rotation direction of the compressor for a few seconds. This should be clockwise when facing the oil sight glass.
11. *(Electric starter enabled version only.)* Once the engine starts, release the key from the START position and allow it to return to the ON position. **(See Figure 3-3.)**
12. Once the engine has started, move the choke lever all the way to the right to close it.
13. Operate the compressor for a few minutes with no load with the tank service valve open. Allow the compressor to warm up.
14. Close the service valve and allow pressure to build in the tank. The electrical pressure switch should shut off the compressor once the air pressure reaches maximum pressure of 175 psi.
 - Pressure should never exceed the tank's maximum rating. If this happens shut **OFF** the compressor immediately and contact your service representative.

CAUTION

Make sure the air pressure does not exceed the air receiver tank's psi rating!

If the pressure gauge indicates a pressure that exceeds the tank's maximum pressure rating, shut off the compressor immediately and contact your distributor.

4.6 NORMAL START UP PROCEDURE

1. Release any remaining pressure from the tank by slowly opening the service valve. **(See Figure 4-1.)**
2. Open the fuel valve by sliding the fuel valve lever all the way to the right. **(See Figure 4-2.)**
3. Open the choke by sliding the choke valve lever all the way to the right.
4. Set throttle at approximately 1/3 from minimum (from the right).

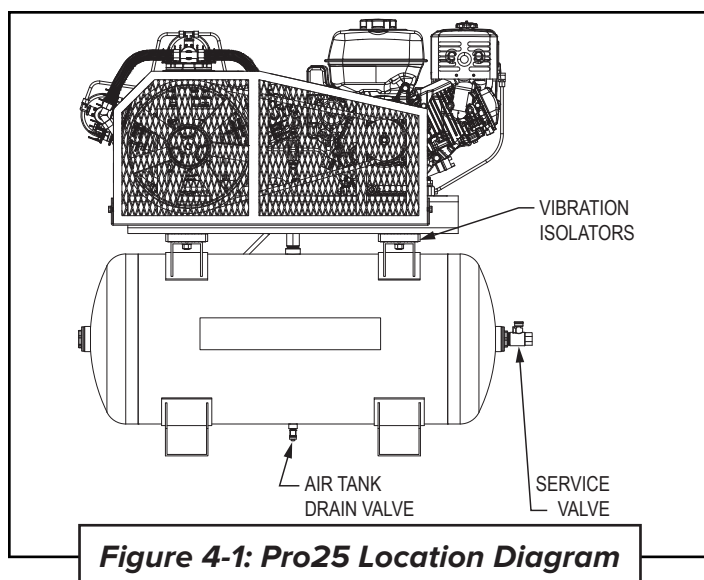


Figure 4-1: Pro25 Location Diagram

5. Start the engine.
 - If using the electronic starter, turn the engine switch to the START position. Once engine has started, release the switch and allow it to remain at the ON position. **(See Figure 3-3.)**
 - If using the recoil starter manually, pull the starter grip handle straight back quickly towards the rear of the machine. (Repeat if needed.) Once started return the starter grip slowly back to the engine to prevent damage to the starter. Avoid letting go and allowing handle to snap back.

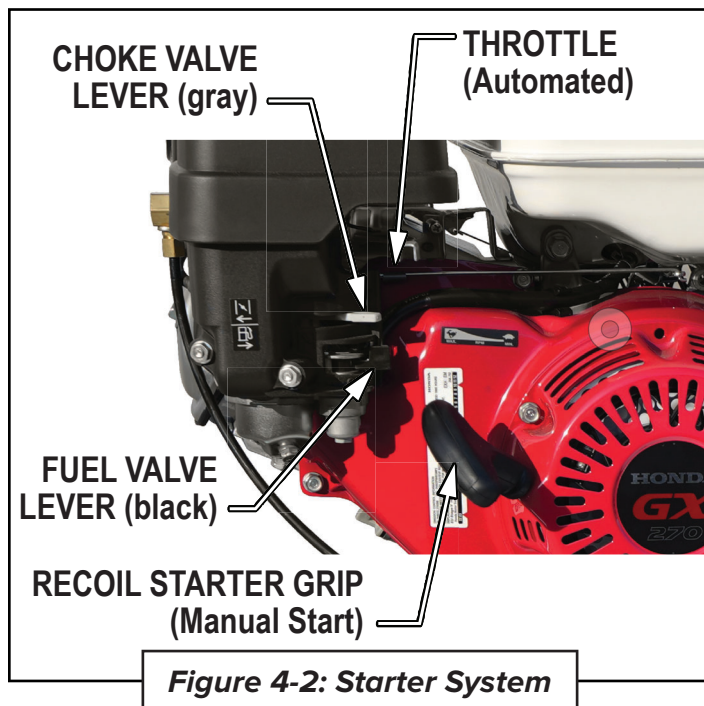


Figure 4-2: Starter System

6. The engine throttle will be controlled automatically based on pressure requirements.
7. Once the engine is running normally, close the choke valve by moving the choke valve Lever all the way to the left.
 - Refer to the engine operation manual for detailed starting instructions.
 - Gas Drive Compressors are equipped with a cold start valve for load-less starts.

NOTE: In some cases it may still be necessary to lift the toggle on the unloader/pilot valve to relieve the head pressure.

4.7 NORMAL SHUTDOWN PROCEDURE

1. Safely secure any air tools you may be using.
2. If using the Electronic Starter, turn the starter switch to the **OFF** position.
3. Shut off the fuel valve.(Slide the fuel valve lever all the way to the left.)
4. Open the service valve to reduce any air pressure in the tank to less than 30 psi.
5. Open the drain valve to release any condensation. Close when finished.

4.8 CAUTIONS WHEN SPRAYING

1. **DO NOT** spray in vicinity of open flames or other places where a spark can cause ignition. **DO NOT** smoke when spraying paint, insecticides or other flammable substances.
2. Be Informed about the materials you use.
 - 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.
 - If the material you intend to spray contains trichlorethane and methylene chloride (common degreasing agents), use stainless steel accessories. Do not use accessories that contain aluminum or galvanized components as this can cause corrosion and weaken equipment.

WARNING

Never point a spray gun at yourself or anyone else. Accidental discharge may result in serious injury.

WARNING

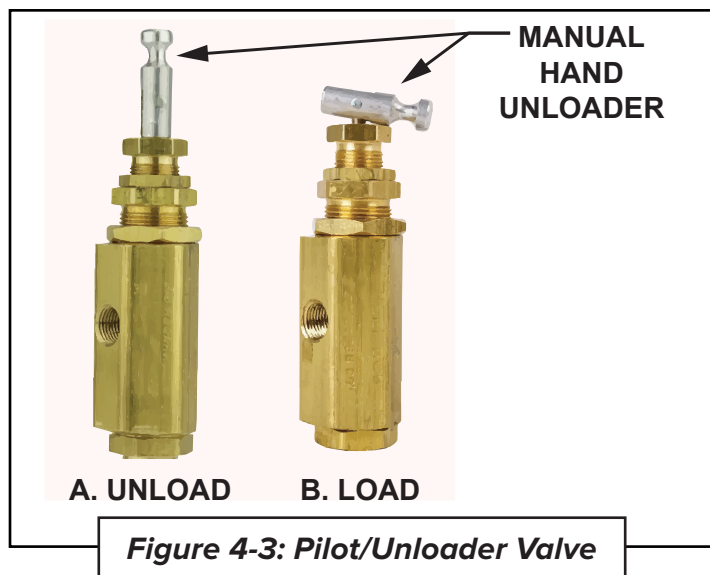
Use extreme caution when spraying flammable liquids as the spark from a motor or pressure switch, or an ember from the muffler could ignite a fire or trigger an explosion. Proper ventilation must be provided.

WARNING

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

4.9 COLD WEATHER START

1. Release any air remaining in the receiver tank using the service valve.
2. Open the drain valve to release any condensation from the tank. Close drain valve when finished.
3. Turn on the engine's fuel valve. *(See Figure 4-2).*
4. Set the choke to the ON position.
5. Close the service valve, Find the unloader valve near the front of the compressor unit. *(See Figure 5-2).* Put the unloader lever in the A. "UNLOAD" position. *(See Figure 4-4.)*
6. Start the engine, release the choke, and let the engine idle for 2-3 minutes.
7. Put the unloader lever in the B. "LOAD" position. *(See Figure 4-4.)*
 - **NOTE:** Turn **OFF** the fuel valve before shutting down the compressor.



SECTION 5: Maintenance

5.1 REGULAR MAINTENANCE

Performing regular maintenance will help keep your Pro 25 running at its best to maximize up-time, and help avoid costly and unnecessary repairs and parts replacement.

5.2 MAINTENANCE OPERATIONS

1. Conduct regular maintenance inspections. Tighten any loose nuts, bolts, and screws to maintain safe working condition.
2. Inspect the air receiver tank annually for rust, pin holes or any other signs of damage or wear that could cause it to fail or malfunction.

WARNING

NEVER attempt to repair or modify a tank! Welding, drilling or other modifications will weaken the integrity of the tank resulting in damage from possible rupture or explosion. Worn, cracked, and damaged tanks should always be replaced.

3. Clean electrical equipment with an approved cleaning agent. A dry, non-flammable cleaning solvent is recommended.
4. Drain water condensation from tank using tank's drain valve. (Be sure the machine is **OFF**. Relieve pressure from tank using the ball valve or service valve before opening drain.) Close drain valve when finished. If storing for extended period of time - leave drain valve open during storage to keep interior dry and prevent corrosion.
 - **NOTE:** When temperatures are below freezing, water in the tank may become frozen and cannot be drained. Move unit into warm environment to allow any frozen condensation to thaw, then drain.
 - **NOTE:** Machines equipped with the optional remote-controlled tank drain system may use the remote to open and close the tank drain valve. Follow the same draining and storage recommendations listed above.

5. When working on a motor, always disconnect from power source and its connected load when possible. If disconnection is not possible, secure the motor in the **OFF** position and tag it to prevent accidental power up.

WARNING

Disconnect power and depressurize the system before working on the compressor. Open the drain valve slightly after shutting OFF the compressor.

5.2.1. DAILY MAINTENANCE

Disconnect power from the compressor and allow compressor to cool if hot.

1. Wipe down surface with a clean, soft cloth or shop towel after use.
2. **CHECK COMPRESSOR OIL LEVEL.** On a level surface, visually check level using the oil level sight glass. The halfway mark is ideal. **DO NOT** operate if the oil level is at or below 1/4 or above 3/4 as equipment damage may result. Add or drain oil as needed. *(See Figure 5-2).*
3. Remove any objects or debris that may interfere with the fan, vents, motor, belts or cooling components.
4. Check unit for sign of air or oil leaks, or any physical damage, including the finger guards covering the fan and belt.
5. Inspect belt for good condition and tension. Make sure they are not loose, cracked or show adverse wear.
6. Drain Air Tank
 - Reduce tank pressure to 10 PSI or less using the service valve on the tank.
 - Open drain valve on the tank to drain moisture after every use.
 - Close the drain valve once tank has been fully drained.

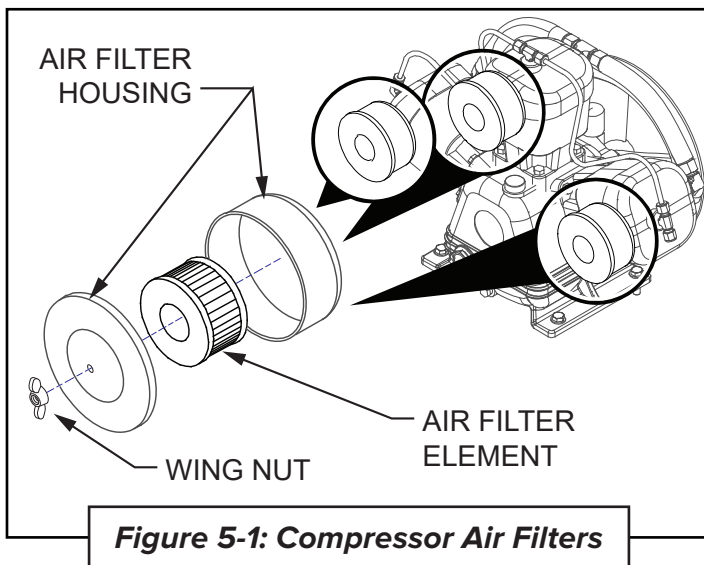
7. Check engine oil level daily. Oil level should fall between the upper and lower level of the engine dipstick before use. **(IMPORTANT: Refer to the Honda Engine Manual for engine maintenance information.)**

NOTE: Turn off compressor and inspect unit following any abnormal sounds or unusual performance experienced during use as this may be a sign of other issues. Remember, the compressor will become hot during normal use. Always use caution and allow to cool before handling.

5.2.2. WEEKLY MAINTENANCE

In addition to daily maintenance tasks, once per week check the air filters. Clean, or replace them if there is heavy build-up.

1. **CHECK AIR FILTERS.** Remove the wing nuts and remove the three air filter covers. The air filter elements within can be removed by simply pulling them out. *(See Figure 5-1)*



2. Remove filter element and gently tap the filter on a hard, flat surface to dislodge any loose dust and dirt. **(DO NOT** use compressed air to blow them out - as this can tear the paper elements causing damage the filter.)
3. Check for loose dust, dirt and debris inside the housing. Wipe the three filter housings clean with a clean cloth.

4. To inspect the air filters, hold them up to a light source and look for holes, tears or areas for heavy dirt build-up. Also check the filter's gaskets on the outer edges for signs of damage.

CAUTION

DO NOT hold above your face!

5. Return the cleaned filters to their housings (or replace with new ones as needed), then secure the covers back in place with the wing nuts and tighten using fingers.

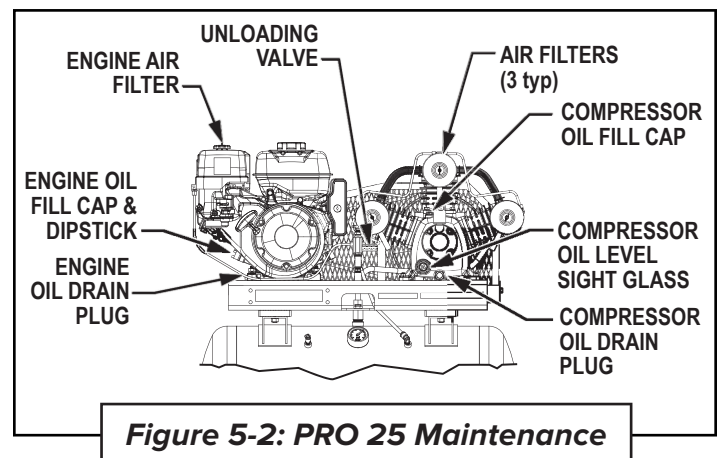
5.3 MONTHLY MAINTENANCE

1. Turn **OFF** the machine.
2. Check the belts for tension. Belts should not move up and down during use or when the unit has stopped. No more than 1/2" of play should be present when belt is depressed. Take care not to OVER-TIGHTEN belts during adjustments.
3. Remove and check the air filters. Replace as needed. *(See Figure 5-1.)*

5.3.1. COMPRESSOR OIL

Before each use, always check that the oil level is between 1/4 and 3/4 by viewing the sight glass. Ideally, the oil level should be at halfway mark in the sight glass located on the front of the compressor.

DO NOT operate if the oil level is at or below 1/4, or above 3/4, as equipment damage may result. *(See Figure 5-2)*



If oil needs to be added, use Vanair® brand reciprocating compressor oil. Add oil via the oil fill cap access.

Likewise, the oil should be changed annually, or every 100 hours of operation time.

1. To change the oil, run compressor for 2-3 minutes to warm the oil. Disconnect power from the compressor.
2. Remove the oil fill cap. Remove the plug from the oil drain and empty used oil into a adequate container.
3. Replace plug and slowly add fresh Vanair® Compressor oil, until the level in the oil sight glass appears 50% full.
4. Replace the oil fill cap.
5. Dispose of used oil in accordance with local regulations concerning the recycling and disposal of oil products. Do not discard in trash bin, sewer or water.

5.3.2. OTHER MAINTENANCE

1. Change compressor oil after initial 20 hours of use, then annually or every 100hrs thereafter. Use Vanguard reciprocating compressor oil.
Part No. 271856-QT.
2. Change engine oil after initial 20 hours of use, then annually or every 100hrs thereafter.
3. The 30 gallon air tank should be visually inspected each year for signs of wear or corrosion and hydro-statically inspected every 10 years.
 - Minimum head wall thickness is 0.109
 - Minimum shell wall thickness is 0.098
4. **IMPORTANT:** For engine maintenance, adjustments, parts, and information see **Honda GX270 Owners Manual.**
5. Maintenance Kits are available. See **Section 7.2** for more details.

WARNING

Oil and moisture residue must be drained from the air receiver tank daily or after each use. Residue that may accumulate in the receiver can be ignited by embers of carbon created by the heat of compression - which could lead to explosion, damage to property and personnel injury.

WARNING

Do not open the manual drain valve on a receiver air tank containing 30 psi or more of pressure!

WARNING

Never attempt to relieve pressure in an air tank by removing components or plugs! Always use the service or ball valve. Relieving pressurized air can be loud and propel dirt and debris at high speeds. Wear hearing and eye protection.

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SECTION 6: Troubleshooting

6.1 TROUBLESHOOTING GUIDE

Should you experience issues while using your PRO 25 system, please take a look at the following table for possible gripes and solutions.

Please refer to the **Honda GX270 engine owner's guide** for additional information specific to this system's engine and maintenance not covered in this manual.

For issues not covered in this troubleshooting guide or the Honda engine owner's manual, please consult your dealer where your purchased your PRO 25 system for additional support.

Vanair Service contact information can also be found on the back cover of this manual.

Table 6-A: Troubleshooting Guide

Low Discharge Pressure	1. Compressor too small for the application 2. Air leaks 3. Restricted air intake 4. Blown gasket(s) 5. Broken or misaligned valves	1. Reduce air demand or use a compressor with higher air capacity. 2. Listen for air leaks. Use soapy solution on area and look for bubbles at leaks. Tighten or replace fittings or connections. 3. Clean or replace air filter elements. 4. Replace damaged gaskets. 5. Remove head and inspect for broken or misaligned valves. Replace damaged valves. NOTE: Always install a new head gasket whenever the head is removed.
Excessive "knocking" noise	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 can cause bearing damage. 3. Replace connecting rod and/or connecting rod bearings. 4. Clean or replace check valve NEVER try to remove the check valve when the system is pressurized!
Excessive oil carryover	1. Worn piston rings 2. Restricted air intake 3. Oil level too high in compressor 4. Incorrect oil viscosity	1. Replace with new piston rings. 2. Clean or replace air filter(s). 3. Drain oil to proper level. 4. Use Vanguard Reciprocating compressor oil as specified.
Water in the tank and/or air discharge line	1. Normal. Amount of water will increase as humidity in the air increases.	1. Drain condensation in the air tank daily or after each use. 2. Add an in-line filter to reduce moisture in the air line.
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 leak in tank	1. Replace check valve. NEVER try to remove the check valve when the system is pressurized! 2. Tighten connections or replace loose fittings or connections. 3. Replace tank - do not attempt to repair.
Pressure switch unloader constantly leaking air	1. Malfunctioning check valve	1. Replace check valve if unloader bleeds air constantly. NEVER try to remove the check valve when the system is pressurized!

Table 6-A: Troubleshooting Guide

Pressure switch not unloading	1. Malfunctioning pressure switch	1. Replace pressure switch if it does not release air pressure briefly when unit shuts off. NEVER try to remove the pressure switch when the system is pressurized!
Excessive vibration	1. Improper installation 2. Loose belts 3. Misaligned flywheel or drive pulley	1. Make sure unit is mounted on a level surface with vibration pads. 2. Replace belt(s). Align and tighten properly. 3. Align flywheel and/or drive pulley
Overheating	1. Compressor too small for the application 2. Loose belts 3. Improper cooling	1. Reduce the work load or use a larger compressor. 2. Clean all cooling surfaces of dirt and debris. 3. Install compressor in an area with access to fresh, cool, dry air.
For engine troubleshooting - please see your Honda GX270 Owner's Manual.		

SECTION 7: Illustrated Parts List

7.1 PARTS ORDERING INFORMATION

Part orders should be placed through the distributor from whom the unit was purchased. If for any reason parts cannot be obtained in this manner, contact Vanair® directly at the address or phone numbers shown.

When ordering parts always indicate the Serial Number of the machine package. This can be obtained from the Bill of Lading for the machine package, or from the unit's serial number plate. See **Figure 7-1** for location of machine package serial plate. Consult **Table 7A: Recommended Spare Parts List** on the next page for a listing of replacement parts.

7.2 MAINTENANCE KITS

The following maintenance kits are available for the PRO 25 system, which include the most often used items to keep your system up and running.

1. Compressor KIT1551
 - **271856-QT** Vanguard Reciprocating Compressor Oil - Quart Qty (2).
 - **280728-040** Compressor Air Filter element. PRO 25. Qty (3).
2. Engine KIT1550
 - Engine Parts/Maintenance Kit - used for the initial 20 hour, 100 hr or every 6 months.



VANAIR®
A Lincoln Electric Company

VANAIR® MANUFACTURING, INC.
A LINCOLN ELECTRIC COMPANY

10896 West 300 N.
Michigan City, IN 46360

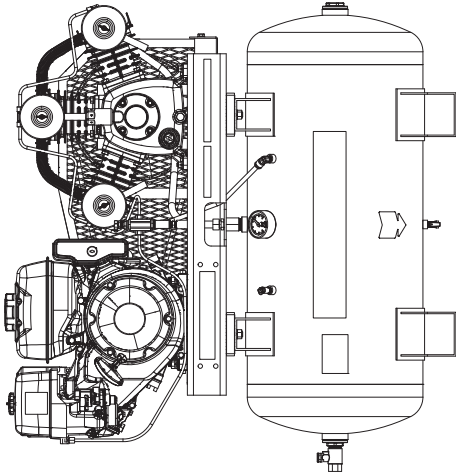
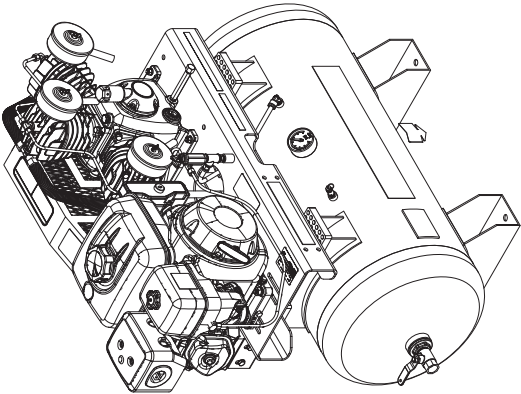
Telephone: (800) 526-8817 (219) 879-5100
Service: (844) VAN-SERV or (844) 826-7378

vanair.com

7.3 PRO 25 - DECAL LOCATION DIAGRAM

REPLACEMENT PARTS LIST	
REV	P/N DESCRIPTION
00	286634-03 GUARD, BELT PRO25
0	286634-04 ISOLATOR, RUBBER 4X4X1 PRO25
0	286634-05 VALVE, SAFETY PRESSURE RELIEF PRO25
0	286634-06 GAUGE, PRESSURE LIQUID FILLED PRO25
0	286634-07 VALVE, CHECK VALVE PRO25
0	286634-08 CONTROL, THROTTLE PNEUMATIC GX270 PRO25
0	286634-09 VALVE, PILOT PRO25
0	286634-10 PIPE, PILOT TO UNLOADER PRO25
0	286634-11 TUBE, DISCHARGE PRO25
0	286634-12 TUBE, DRAIN 1/4" X 12"
0	286634-13 BELT, B51 PRO25
0	286634-14 KEY, ENGINE HONDA GX270 DRIVE PULLEY PRO25
0	286634-15 SHEAVE, B GROOVE PRO25
00	286634-16 FILTER, COMPRESSOR ELEMENT PRO25
00	280739 TUBING, NYLON 4MM X 6MM BLACK

REPLACEMENT PARTS LIST	
REV	PART NUMBER PART DESCRIPTION
00	KIT1551 KIT, SERVICE COMPRESSOR PRO25
00	KIT1550 PM KIT, ENGINE HONDA GX270
00	286634-02 ENGINE, HONDA GX270E PRO25
00	286634-01 COMPRESSOR, PUMP PRO25



MODEL NUMBER

052454

SERIAL NUMBER

30-P2240001

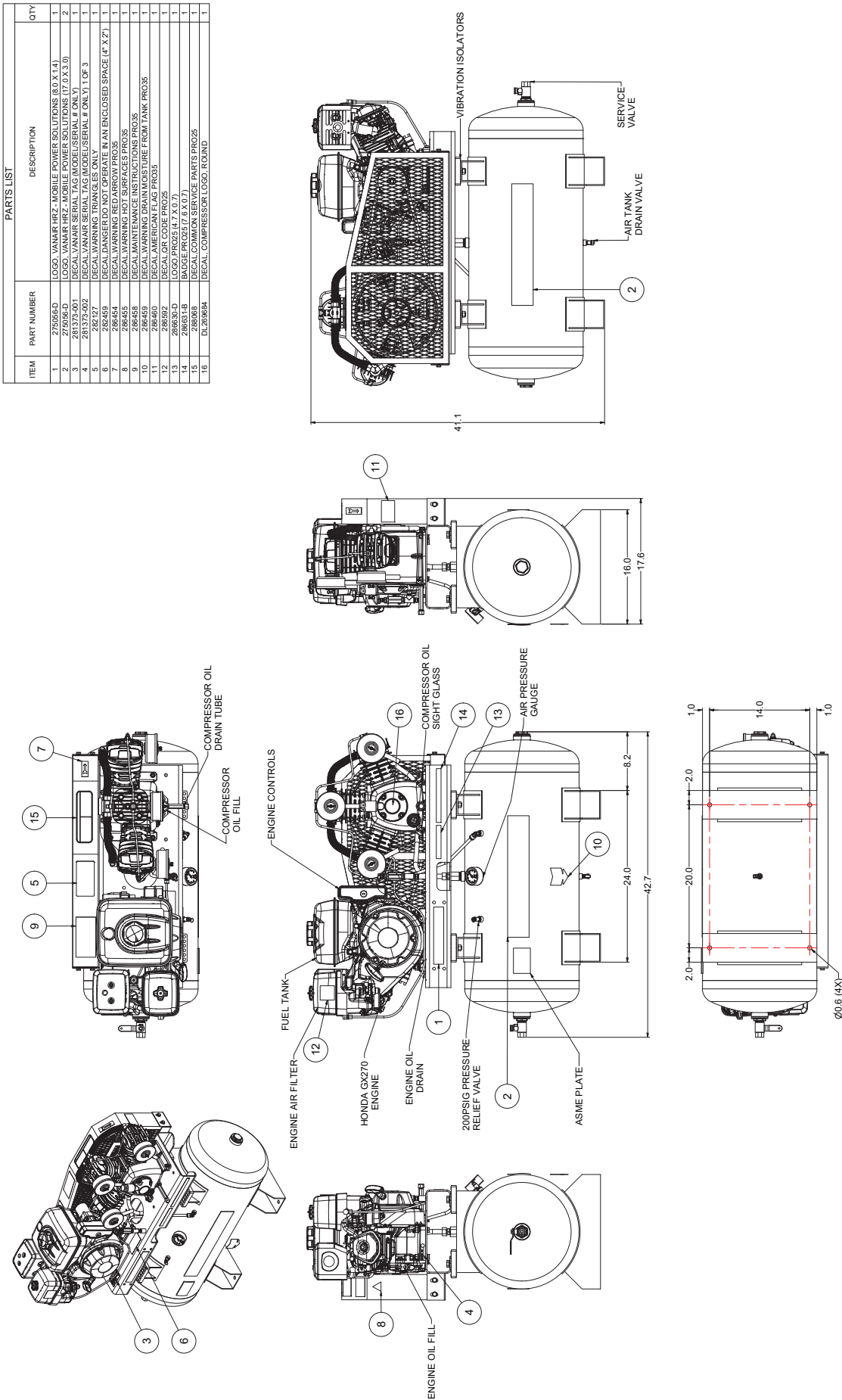
800-526-8817

www.vanair.com

281373

VANAIR SERIAL TAG EXAMPLE
SCALE 3 : 1

7.4 PRO 25 - PARTS LOCATION DIAGRAM



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SECTION 8: Glossary of Terms

Air Filter

Porous element contained within a metal or plastic housing that is attached to the compressor cylinder head. Purpose is to remove impurities from the intake air used by the compressor.

Air Tank

Cylindrical vessel used to contain compressed air.

Check Valve

Device used to prevent compressed air in the air tank from flowing back into the compressor pump.

Electric Motor

Electrical device used to provide rotational force needed to operate the compressor pump.

Pressure Gauge

Instrument used to measure and display the regulated air or the pressure of compressed air inside the receiver tank.

Pressure Switch

Device that automatically controls the ON/OFF cycle of the compressor. Compressor is turned off when the pressure in the tank reaches the cut-out pressure, and turns on the compressor when the air pressure inside the tank falls below the cut-in pressure.

PSI (Pounds per Square Inch)

Unit of measurement used to indicate the pressure exerted by the force of the air. Actual PSI is measured by the Pressure Gauge on the compressor.

Pump

Device with a reciprocating piston used to produce the compressed air within a cylinder.

Safety Valve

Device used to release excess air to prevent air pressure in the air receiver tank from exceeding a predetermined pressure limit.

Thermal Overload Switch

Device built into the electric motor that automatically turns OFF the compressor if the temperature of the electric motor exceeds a predetermined temperature.



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