

MODEL T33858 6-GAL OIL-FREE QUIET SERIES PANCAKE AIR COMPRESSOR

OWNER'S MANUAL

(For models manufactured since 03/23)



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This manual provides critical safety instructions on the proper setup, operation, maintenance, and service of this machine/tool. Save this document, refer to it often, and use it to instruct other operators.

Failure to read, understand and follow the instructions in this manual may result in fire or serious personal injury—including amputation, electrocution, or death.

The owner of this machine/tool is solely responsible for its safe use. This responsibility includes but is not limited to proper installation in a safe environment, personnel training and usage authorization, proper inspection and maintenance, manual availability and comprehension, application of safety devices, cutting/sanding/grinding tool integrity, and the usage of personal protective equipment.

The manufacturer will not be held liable for injury or property damage from negligence, improper training, machine modifications or misuse.



Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints.
- Crystalline silica from bricks, cement and other masonry products.
- Arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: Work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

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INTRODUCTION

Contact Info

If you have questions, need help, need warranty information, or need to order parts, contact MEGA with the information below. Before contacting, make sure you get the **serial number** and **manufacture date** from the machine ID label.

MEGA Compressor Technical Support Phone: (832) 415-6995 Email: cs@megacompressor.com

We want your feedback on this manual. What did you like about it? Where could it be improved? Please take a few minutes to give us feedback.

Grizzly Documentation Manager P.O. Box 2069 Bellingham, WA 98227-2069 Email: manuals@grizzly.com

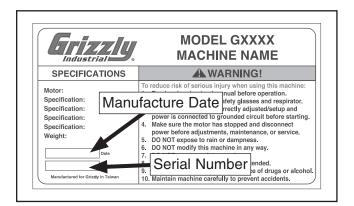
Manual Accuracy

We are proud to provide a high-quality owner's manual with your new machine!

We made every effort to be exact with the instructions, specifications, drawings, and photographs in this manual. Sometimes we make mistakes, but our policy of continuous improvement also means that sometimes the machine you receive is slightly different than shown in the manual.

If you find this to be the case, and the difference between the manual and machine leaves you confused or unsure about something, check our website for an updated version. We post current manuals and manual updates for free on our website at www.grizzly.com.

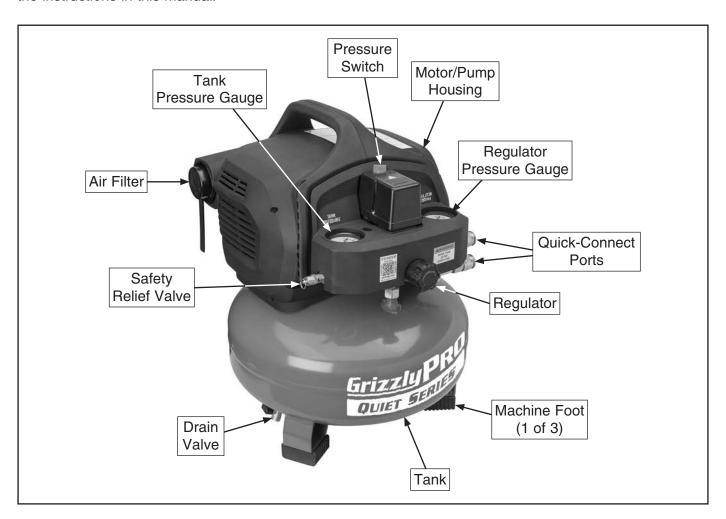
Alternatively, you can call our Technical Support for help. Before calling, make sure you write down the **manufacture date** and **serial number** from the machine ID label (see below). This information is required for us to provide proper tech support, and it helps us determine if updated documentation is available for your machine.





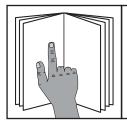
Identification

Become familiar with the names and locations of the controls and features shown below to better understand the instructions in this manual.





Controls & Components



AWARNING

To reduce your risk of serious injury, read this entire manual BEFORE using machine.

AWARNING

Like all machinery there is potential danger when operating this machine. Accidents are frequently caused by lack of familiarity or failure to pay attention. Use this machine with respect and caution to decrease the risk of operator injury. If normal safety precautions are overlooked or ignored, serious personal injury may occur.

ACAUTION

No list of safety guidelines can be complete. Every shop environment is different. Always consider safety first, as it applies to your individual working conditions. Use this and other machinery with caution and respect. Failure to do so could result in serious personal injury, damage to equipment, or poor work results.

Refer to the following figures and descriptions to become familiar with the basic controls and components of this machine. Understanding these items and how they work will help you understand the rest of the manual and minimize your risk of injury when operating this machine.

Automatic Pressurization

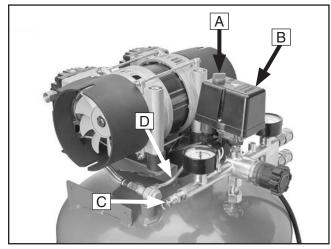


Figure 1. Pressurization components (shroud and control panel removed for clarity).

- A. Pressure Switch Knob: Toggles pressure switch between OFF and ON modes. Machine is OFF in OFF mode, and will continue to pressurize until 150 PSI (cut-out pressure) is reached when in ON mode.
- B. Pressure Switch: Turns motor ON when tank pressure drops below 120 PSI (cutin pressure) and switch is in ON position. Switch contains pressure relief valve that will activate discharge line when tank pressure exceeds 150 PSI (cut-out pressure) or pressure switch is turned OFF.
- C. Safety Relief Valve: Pops open to release tank pressure in the event that pressure switch fails to stop motor at cut-out pressure.
- **D. Discharge Line:** Releases air from compressor pump and outlet line when tank pressure exceeds 150 PSI (cut-out pressure).



Air Input

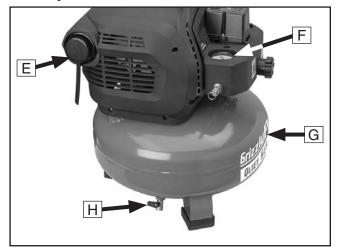


Figure 2. Air input components.

- **E.** Air Filter: Cleans air entering compressor pump.
- F. Tank Pressure Gauge: Indicates pressure of air in tank.
- **G. Tank:** Holds up to 6 gallons of pressurized air.
- **H. Drain Valve:** Drains built-up moisture from tank when ball valve is opened.

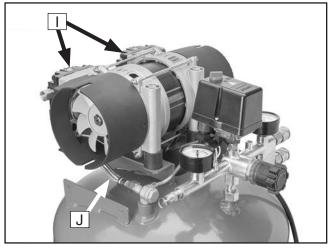


Figure 3. Location of pump and exhaust tube (shroud and control panel removed for clarity).

- Dual Compressor Pump: Uses pistons to draw in and compress air before transferring air to tank.
- **J. Exhaust Tube:** Transfers compressed air from pump to tank.

Air Output/Delivery

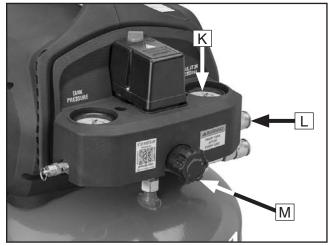


Figure 4. Air output components.

- K. Regulator Pressure Gauge: Indicates pressure of air at quick-connect ports.
- L. Quick-Connect Port (1 of 2): Secures and releases air hose.
- M. Regulator Knob: Adjusts pressure of air delivered to quick-connect ports. Turn clockwise to increase pressure and counterclockwise to decrease pressure.



MACHINE DATA SHEET

Customer Service #: (570) 546-9663 · To Order Call: (800) 523-4777 · Fax #: (800) 438-5901

MODEL T33858 6-GALLON OIL-FREE QUIET SERIES PANCAKE AIR COMPRESSOR

Product Dimensions:	
Weight	
Width (side-to-side) x Depth (front-to-back) x Height	
Footprint (Length x Width)	
Shipping Dimensions:	
Type	Cardboard Box
Content	
Weight	56 lbs.
Length x Width x Height	18 x 18 x 23 in.
Must Ship Upright	Yes
Electrical:	
Power Requirement	120V, Single-Phase, 60 Hz
Full-Load Current Rating	
Minimum Circuit Size	15A
Connection Type	Cord & Plug
Power Cord Included	Yes
Power Cord Length	72 in.
Power Cord Gauge	14 AWG
Plug Included	Yes
Included Plug Type	
Switch Type	Pressure Switch
Motors:	
Main	
Horsepower	1-1/2 HP
Phase	Single-Phase
Amps	12A
Speed	
Type	
Power Transfer	
Bearings	Shielded & Permanently Lubricated



Main Specifications:

Operation Information

Compressor Style	One-Stage
Tank Size	
Output Port Information	
Connection Type Connection Size Number of Connections Hose Included	
Construction Information	
Tank Valves Motor/Pump Shroud Paint Type/Finish	Brass Plastic
Other Specifications:	
Country of Origin Warranty Serial Number Location Sound Rating	1 Year ID Label

Features:

Sound Rating of Only 62 dB at 10 ft.
6-Gallon Tank with Maximum Airflow of 3.5 SCFM at 90 PSI
Oil-Free Twin Cylinders
Ball-Valve Drain Control
Included Air Regulator for Airflow Adjustment
Two Quick-Coupler Hose Connections



SECTION 1: SAFETY

For Your Own Safety, Read Instruction Manual Before Operating This Machine

The purpose of safety symbols is to attract your attention to possible hazardous conditions. This manual uses a series of symbols and signal words intended to convey the level of importance of the safety messages. The progression of symbols is described below. Remember that safety messages by themselves do not eliminate danger and are not a substitute for proper accident prevention measures. Always use common sense and good judgment.



Indicates an imminently hazardous situation which, if not avoided, WILL result in death or serious injury.

AWARNING

Indicates a potentially hazardous situation which, if not avoided, COULD result in death or serious injury.

ACAUTION

Indicates a potentially hazardous situation which, if not avoided, MAY result in minor or moderate injury. It may also be used to alert against unsafe practices.

NOTICE

Alerts the user to useful information about proper operation of the machine to avoid machine damage.

Safety Instructions for Machinery

AWARNING

OWNER'S MANUAL. Read and understand this owner's manual BEFORE using machine.

TRAINED OPERATORS ONLY. Untrained operators have a higher risk of being hurt or killed. Only allow trained/supervised people to use this machine. When machine is not being used, disconnect power, remove switch keys, or lock-out machine to prevent unauthorized use—especially around children. Make your workshop kid proof!

DANGEROUS ENVIRONMENTS. Do not use machinery in areas that are wet, cluttered, or have poor lighting. Operating machinery in these areas greatly increases the risk of accidents and injury.

MENTAL ALERTNESS REQUIRED. Full mental alertness is required for safe operation of machinery. Never operate under the influence of drugs or alcohol, when tired, or when distracted.

ELECTRICAL EQUIPMENT INJURY RISKS.

You can be shocked, burned, or killed by touching live electrical components or improperly grounded machinery. To reduce this risk, only allow qualified service personnel to do electrical installation or repair work, and always disconnect power before accessing or exposing electrical equipment.

DISCONNECT POWER FIRST. Always disconnect machine from power supply BEFORE making adjustments, changing tooling, or servicing machine. This prevents an injury risk from unintended startup or contact with live electrical components.

EYE PROTECTION. Always wear ANSI-approved safety glasses or a face shield when operating or observing machinery to reduce the risk of eye injury or blindness from flying particles. Everyday eyeglasses are NOT approved safety glasses.



AWARNING

WEARING PROPER APPAREL. Do not wear clothing, apparel or jewelry that can become entangled in moving parts. Always tie back or cover long hair. Wear non-slip footwear to reduce risk of slipping and losing control or accidentally contacting cutting tool or moving parts.

HAZARDOUS DUST. Dust created by machinery operations may cause cancer, birth defects, or long-term respiratory damage. Be aware of dust hazards associated with each workpiece material. Always wear a NIOSH-approved respirator to reduce your risk.

HEARING PROTECTION. Always wear hearing protection when operating or observing loud machinery. Extended exposure to this noise without hearing protection can cause permanent hearing loss.

REMOVE ADJUSTING TOOLS. Tools left on machinery can become dangerous projectiles upon startup. Never leave chuck keys, wrenches, or any other tools on machine. Always verify removal before starting!

USE CORRECT TOOL FOR THE JOB. Only use this tool for its intended purpose—do not force it or an attachment to do a job for which it was not designed. Never make unapproved modifications—modifying tool or using it differently than intended may result in malfunction or mechanical failure that can lead to personal injury or death!

AWKWARD POSITIONS. Keep proper footing and balance at all times when operating machine. Do not overreach! Avoid awkward hand positions that make workpiece control difficult or increase the risk of accidental injury.

CHILDREN & BYSTANDERS. Keep children and bystanders at a safe distance from the work area. Stop using machine if they become a distraction.

GUARDS & COVERS. Guards and covers reduce accidental contact with moving parts or flying debris. Make sure they are properly installed, undamaged, and working correctly BEFORE operating machine.

FORCING MACHINERY. Do not force machine. It will do the job safer and better at the rate for which it was designed.

NEVER STAND ON MACHINE. Serious injury may occur if machine is tipped or if the cutting tool is unintentionally contacted.

STABLE MACHINE. Unexpected movement during operation greatly increases risk of injury or loss of control. Before starting, verify machine is stable and mobile base (if used) is locked.

USE RECOMMENDED ACCESSORIES. Consult this owner's manual or the manufacturer for recommended accessories. Using improper accessories will increase the risk of serious injury.

UNATTENDED OPERATION. To reduce the risk of accidental injury, turn machine *OFF* and ensure all moving parts completely stop before walking away. Never leave machine running while unattended.

MAINTAIN WITH CARE. Follow all maintenance instructions and lubrication schedules to keep machine in good working condition. A machine that is improperly maintained could malfunction, leading to serious personal injury or death.

DAMAGED PARTS. Regularly inspect machine for damaged, loose, or mis-adjusted parts—or any condition that could affect safe operation. Immediately repair/replace BEFORE operating machine. For your own safety, DO NOT operate machine with damaged parts!

MAINTAIN POWER CORDS. When disconnecting cord-connected machines from power, grab and pull the plug—NOT the cord. Pulling the cord may damage the wires inside. Do not handle cord/plug with wet hands. Avoid cord damage by keeping it away from heated surfaces, high traffic areas, harsh chemicals, and wet/damp locations.

EXPERIENCING DIFFICULTIES. If at any time you experience difficulties performing the intended operation, stop using the machine! Contact our Technical Support at (570) 546-9663.



Additional Safety for Air Compressors

AWARNING

Serious impact injury or death can occur from bursting tank, attachment tool, distribution line, or hose. Contact with hot compressor parts can result in burns. Operating this tool in an environment without proper ventilation or near combustible materials can lead to explosions or fires. Eyes and other soft tissues can be easily injured by air streams and debris projected by compressed air or attachment tools. To reduce the risk of these hazards, operator and bystanders MUST completely heed hazards and warnings below.

TANK INTEGRITY. Inspect tank, attachment tools, pump, air lines, and valves for rust, damage, weakness, leaks, looseness, or excessive wear and repair/replace damaged components before operating. Replace a damaged tank immediately. DO NOT attempt to weld on, modify, or repair tank. Modifying tank can affect tank integrity and cause tank to burst.

ATTACHMENT TOOLS. Always wear ANSI-approved eye protection and any additional personal protective equipment required by attachment tools. Pneumatic tools can propel objects and debris at high speeds or even explode. Never use damaged tools—they are even more likely to rupture. DO NOT exceed pressure ratings of tools or attachments as lines and seals may burst. Use proper air hose for tool and confirm air hose is long enough to reach work area without stretching. Do not carry attachment tool with hand on trigger to reduce risk of accidental firing. Always relieve outlet air line and hose before attaching/removing tools. Disconnect hose or tool from compressor when not in use.

MODIFICATIONS. DO NOT adjust or remove safety relief valve, pressure switch, or otherwise modify machine. Do not install shut-off valve between compressor pump and tank. Check, safety, and pressure valves are adjusted at factory for correct tolerances and abilities of compressor and are designed to keep tank and other components from bursting.

INTENDED USE. DO NOT use compressed air as breathable air supply and DO NOT aim compressed air or air tools at body parts or people. Compressed air can injure or propel debris into eyes or other soft tissues. Do not use compressor to inflate low-pressure objects that are likely to burst (like children's toys).

DAILY MAINTENANCE. Test safety relief valve daily to dislodge any blockages and confirm it is working correctly. Drain moisture from tank daily to prevent internal corrosion that could weaken tank.

DISTRIBUTION LINES. Use only stainless steel, copper, or aluminum for air delivery/distribution lines. NEVER use PVC because it cannot withstand the pressure, heat, condensation, and oils of compressed air and may shatter, creating dangerous shrapnel.

VENTILATION. Only operate in well-ventilated environment that is less than 100°F and keep compressor at least 18 inches from nearest wall. DO NOT obstruct airflow to air filters and ventilation openings. Regularly check and change air filters to avoid buildup of impurities and reduce risk of fire.

COMBUSTION. Compressor motor, pressure switch, and some pneumatic attachment tools often produce sparks. Only operate compressor in area free of combustible materials to prevent fires and explosions. When spraying, locate air compressor at least 20 feet from spray area, do not smoke, and do not spray flammable material in confined area near flame/compressor. Turn compressor *OFF* when unattended. Motor could overheat and create fire hazard.

HOT PARTS. Discharge line and other compressor pump parts heat up during operation. Do not touch these parts during or immediately following operation to prevent burns.

MOVING AND SERVICING. Disconnect power, allow compressor to cool, bleed air from system, and disconnect attachment tools and hoses before moving or servicing to prevent impact injuries, soft tissue injuries, and burns.



SECTION 2: POWER SUPPLY

Availability

Before installing the machine, consider the availability and proximity of the required power supply circuit. If an existing circuit does not meet the requirements for this machine, a new circuit must be installed. To minimize the risk of electrocution, fire, or equipment damage, installation work and electrical wiring must be done by an electrician or qualified service personnel in accordance with all applicable codes and standards.



AWARNING

Electrocution, fire, shock, or equipment damage may occur if machine is not properly grounded and connected to power supply.

Full-Load Current Rating

The full-load current rating is the amperage a machine draws at 100% of the rated output power. On machines with multiple motors, this is the amperage drawn by the largest motor or sum of all motors and electrical devices that might operate at one time during normal operations.

Full-Load Current Rating...... 12 Amps

The full-load current is not the maximum amount of amps that the machine will draw. If the machine is overloaded, it will draw additional amps beyond the full-load rating.

If the machine is overloaded for a sufficient length of time, damage, overheating, or fire may result—especially if connected to an undersized circuit. To reduce the risk of these hazards, avoid overloading the machine during operation and make sure it is connected to a power supply circuit that meets the specified circuit requirements.

AWARNING

Serious injury could occur if you connect machine to power before completing setup process. DO NOT connect to power until instructed later in this manual.

120V Circuit Requirements

This machine is prewired to operate on a power supply circuit that has a verified ground and meets the following requirements:

Nominal Voltage	110V, 115V, 120V
Cycle	60 Hz
Phase	Single-Phase
Power Supply Circuit	15 Amps
Plug/Receptacle	NEMA 5-15

A power supply circuit includes all electrical equipment between the breaker box or fuse panel in the building and the machine. The power supply circuit used for this machine must be sized to safely handle the full-load current drawn from the machine for an extended period of time. (If this machine is connected to a circuit protected by fuses, use a time delay fuse marked D.)

ACAUTION

For your own safety and protection of property, consult an electrician if you are unsure about wiring practices or electrical codes in your area.

Note: Circuit requirements in this manual apply to a dedicated circuit—where only one machine will be running on the circuit at a time. If machine will be connected to a shared circuit where multiple machines may be running at the same time, consult an electrician or qualified service personnel to ensure circuit is properly sized for safe operation.



Grounding & Plug Requirements

This machine MUST be grounded. In the event of certain malfunctions or breakdowns, grounding reduces the risk of electric shock by providing a path of least resistance for electric current.

This machine is equipped with a power cord that has an equipment-grounding wire and a grounding plug. Only insert plug into a matching receptacle (outlet) that is properly installed and grounded in accordance with all local codes and ordinances. DO NOT modify the provided plug!

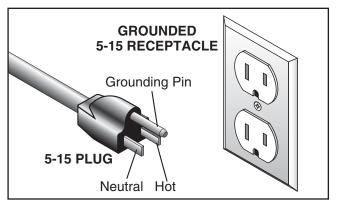
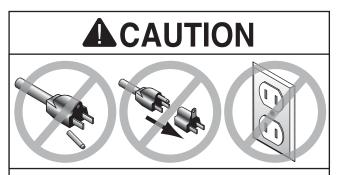


Figure 5. Typical 5-15 plug and receptacle.



SHOCK HAZARD!

Two-prong outlets do not meet the grounding requirements for this machine. Do not modify or use an adapter on the plug provided—if it will not fit the outlet, have a qualified electrician install the proper outlet with a verified ground.

Improper connection of the equipment-grounding wire can result in a risk of electric shock. The wire with green insulation (with or without yellow stripes) is the equipment-grounding wire. If repair or replacement of the power cord or plug is necessary, do not connect the equipment-grounding wire to a live (current carrying) terminal.

Check with a qualified electrician or service personnel if you do not understand these grounding requirements, or if you are in doubt about whether the tool is properly grounded. If you ever notice that a cord or plug is damaged or worn, disconnect it from power, and immediately replace it with a new one.

Extension Cords

We do not recommend using an extension cord with this machine. If you must use an extension cord, only use it if absolutely necessary and only on a temporary basis.

Extension cords cause voltage drop, which can damage electrical components and shorten motor life. Voltage drop increases as the extension cord size gets longer and the gauge size gets smaller (higher gauge numbers indicate smaller sizes).

Any extension cord used with this machine must be in good condition and contain a ground wire and matching plug/receptacle. Additionally, it must meet the following size requirements:

Minimum Gauge Size14 AWG Maximum Length (Shorter is Better)......50 ft.



SECTION 3: SETUP

Unpacking

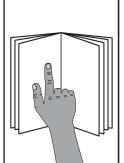
This machine was carefully packaged for safe transport. When unpacking, separate all enclosed items from packaging materials and inspect them for shipping damage. *If items are damaged, please call us immediately at (570) 546-9663.*

IMPORTANT: Save all packaging materials until you are completely satisfied with the machine and have resolved any issues between Grizzly or the shipping agent. You MUST have the original packaging to file a freight claim. It is also extremely helpful if you need to return your machine later.

Needed for Setup

The following items are needed, but not included, for the setup/assembly of this machine.

Des	scription	Qty
•	Safety Glasses	1 Pr.
•	Hearing Protection	1



WARNING

serious injury hazards to untrained users. Read through this entire manual to become familiar with the controls and operations before starting the machine!



AWARNING

Wear safety glasses during the entire setup process!

Inventory

The following is a list of items shipped with your machine. Before beginning setup, lay these items out and inventory them.

If any non-proprietary parts are missing (e.g. a nut or a washer), we will gladly replace them; or for the sake of expediency, replacements can be obtained at your local hardware store.

Inve	entory (Figure 6)	Qty
A.	Air Compressor	1
B.	Air Filter Assembly	1

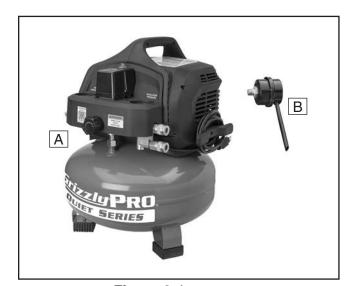


Figure 6. Inventory.

NOTICE

If you cannot find an item on this list, carefully check around/inside the machine and packaging materials. Often, these items get lost in packaging materials while unpacking or they are pre-installed at the factory.

Site Considerations

Workbench Load

Refer to the **Machine Data Sheet** for the weight and footprint specifications of your machine. Some workbenches may require additional reinforcement to support the weight of the machine and workpiece materials.

Placement Location

Consider anticipated workpiece sizes and additional space needed for auxiliary stands, work tables, or other machinery when establishing a location for this machine in the shop. Below is the minimum amount of space needed for the machine.

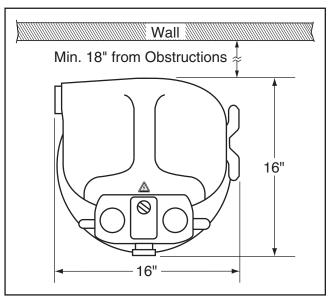


Figure 7. Minimum working clearances.

Children and visitors may be seriously injured if unsupervised around this machine. Lock entrances to the shop or disable start switch or power connection to prevent unsupervised use.

Assembly

The machine must be fully assembled before it can be operated. Before beginning the assembly process, refer to **Needed for Setup** and gather all listed items. To ensure the assembly process goes smoothly, first clean any parts that are covered or coated in heavy-duty rust preventative (if applicable).

To assemble machine:

 Thread air filter assembly clockwise into compressor pump and hand tighten, as shown in Figure 8.



Figure 8. Air filter assembly installed on compressor pump.

Test Run

Once assembly is complete, test run the machine to ensure it is properly connected to power and safety components are functioning correctly.

If you find an unusual problem during the test run, immediately stop the machine, disconnect it from power, and fix the problem BEFORE operating the machine again. The **Troubleshooting** table in the **SERVICE** section of this manual can help.

The Test Run consists of verifying the following:

1) The motor powers up and runs correctly, 2) the motor and pump turn *OFF* when the cut-out pressure is reached, and 3) the safety relief valve works correctly.

AWARNING

Serious injury or death can result from using this machine BEFORE understanding its controls and related safety information. DO NOT operate, or allow others to operate, machine until the information is understood.

WARNING

DO NOT start machine until all preceding setup instructions have been performed. Operating an improperly set up machine may result in malfunction or unexpected results that can lead to serious injury, death, or machine/property damage.

To test run machine:

- 1. Clear all setup tools away from machine.
- Locate machine in well-ventilated area at least 18 inches from nearest wall or any other obstructions.



3. Move pressure switch knob to OFF position (see **Figure 9**).

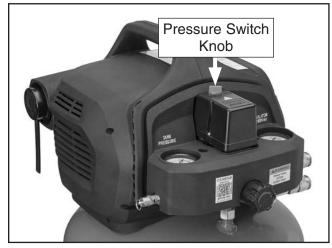


Figure 9. Location of pressure switch knob.

4. Turn drain valve handle to open position (see **Figure 10**).

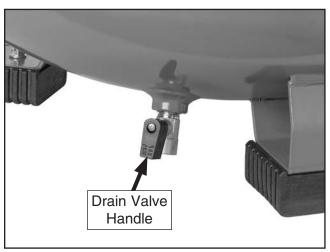


Figure 10. Drain valve handle open.

- 5. Connect machine to power supply.
- **6.** Move pressure switch knob to ON position to turn machine *ON* and verify motor operation.
 - Motor should run smoothly and without unusual problems or noises.
- After running compressor for 15 minutes, move pressure switch lever to OFF position to turn machine *OFF*.
- **8.** Turn drain valve handle to closed position.



9. Turn machine *ON* and observe tank pressure gauge (see **Figure 11**) while tank fills.



Figure 11. Location of tank pressure gauge.

- If motor and pump turn *OFF* when tank pressure reaches 150 PSI, then safety feature of check valve is working correctly. Proceed to **Step 10**.
- If motor and pump do not turn OFF when tank pressure reaches 150 PSI, then immediately turn OFF machine and disconnect it from power. Safety feature of check valve is NOT working properly and must be replaced before further using machine.

ACAUTION

Releasing air through safety relief valve can be extremely loud. Protect hearing with ANSI-approved hearing protection in following step. Turn machine *OFF* and slowly pull safety relief valve ring to bleed pressure from tank (see Figure 12).



Figure 12. Location of safety relief valve.

- If safety relieve valve bleeds pressure from tank, and air stops leaking when pressure is released, then safety feature of safety relief valve is working correctly. Proceed to **Step 11**.
- If safety relief valve is stuck or leaks air after releasing pressure, immediately turn *OFF* machine and disconnect it from power. Safety relief valve must be replaced before further using machine.
- **11.** Open drain valve to drain moisture from tank, then close drain valve.

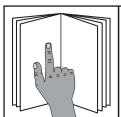
Congratulations! Test Run is complete.

SECTION 4: OPERATIONS

Operation Overview

The purpose of this overview is to provide the novice machine operator with a basic understanding of how the machine is used during operation, so the machine controls/components discussed later in this manual are easier to understand.

Due to the generic nature of this overview, it is **not** intended to be an instructional guide. To learn more about specific operations, read this entire manual, seek additional training from experienced machine operators, and do additional research outside of this manual by reading "how-to" books, trade magazines, or websites.



AWARNING

To reduce your risk of serious injury, read this entire manual BEFORE using machine.



AWARNING

Eye injury hazard! Always wear safety glasses when using this machine.

NOTICE

If you are not experienced with this type of machine, WE STRONGLY RECOMMEND that you seek additional training outside of this manual. Read books/magazines or get formal training before beginning any projects. Regardless of the content in this section, Grizzly Industrial will not be held liable for accidents caused by lack of training.

To complete a typical operation, the operator does the following:

- 1. Puts on safety glasses.
- 2. Pulls safety relief valve ring to test valve and clear any obstructions.
- **3.** Turns regulator knob all the way counter-clockwise.
- Puts on any additional personal protective equipment required by operation and attachment tool.
- 5. Connects machine to power and turns it *ON*.
- **6.** Allows machine to run until cut-out pressure has been reached and tank is full.
- 7. Turns regulator knob clockwise until line pressure gauge displays pressure lower than or equal to air tool rating.
- **8.** Connects air hose to quick-connect coupler.
- 9. Connects attachment air tool to air hose.
- **10.** While being careful not to create a tripping hazard with hose, performs operation.
- **11.** Turns machine *OFF* and disconnects it from power.
- **12.** Uses safety relief valve to reduce tank pressure to less than 10 PSI.
- **13.** Disconnects attachment tool from hose.
- **14.** Disconnects hose from compressor.
- **15.** Opens drain valve to drain any condensation from tank.
- 16. Closes drain valve.



Choosing Air Hose

There are many options when it comes to hoses. The most important aspects for an air compressor are going to be length, diameter, and fittings. The material of the hose is also an important consideration, but this will depend more on your application and preference.

Length

Consider your applications before deciding on a hose length. Longer hoses, or hose connections to extend hose length, can increase your mobility, but will probably result in some pressure loss.

If your work area will be small, you may be able to use a shorter hose without having to move the compressor or stretch the hose. Never pull the hose to move the compressor or put any unnecessary stress on the hose, valves, fittings, or tank.

An air compressor becomes very hot during operation, and the pressure switch and motor often produce sparks. Some applications, like spraying or sanding, involve flammable material that create a fire or combustion hazard when they are performed too close to a compressor. The hose length must allow for the air compressor to remain at least 20 feet away from the operation.

Diameter

A larger inner diameter will allow for higher airflow delivery. Refer to **Airflow Delivery (CFM)** on **Page 19** for more information. The higher CFM a tool requires, the larger the inner diameter of the hose will need to be (see **Figure 13**).

Airflow Delivery	Required ID
0–3 CFM	½" (3mm)
3.1-5.9 CFM	¹ / ₄ "– ³ / ₈ " (3mm–10mm)
6+ CFM	3/8"+ (10mm+)

Figure 13. Recommended hose inner diameters.

Fittings

Many hoses come with fittings installed. The simplest option is to find a hose with two fittings: one that matches the compressor output port, and one that matches your intended attachment tool. If the hose does not match the port, a coupler may be needed.

You will need to determine the size of the fittings and whether they are male or female (see **Figure 14**). A male fitting can only attach to a female fitting, and vice versa. There are also a number of coupler/plug styles on the market, so be sure the two match or you will likely not have an airtight connection.

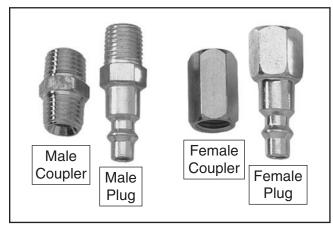


Figure 14. Example of male and female fittings.

The outlet ports on the T33858 are universal quick-connect couplers with a coupling size of ½" (see **Figure 15**). To connect a hose, the hose must have an attached plug with the same coupling size and be one of the following styles: industrial, automotive, ARO, V-style (also called European), or Lincoln.

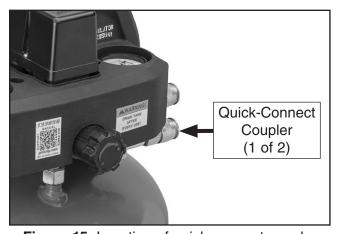


Figure 15. Location of quick-connect coupler ports.



Connecting Air Tool

There are various air tools that can be connected to your air compressor by means of an air hose, and the setup will vary little across tools, but there are a couple things to keep in mind before connecting a tool or hose.

Airflow Delivery (CFM)

The first consideration when choosing an air tool is whether or not the air delivery is compatible with your compressor. Smaller compressors, capable of less than 5 CFM, only supply enough pressure for smaller air tools like nailers, staplers, chippers, chisels, grinders, sanders, tire inflators, and paint sprayers. Air hammers, impact wrenches, impact hammers, and blow guns will probably require a larger compressor capable of 10-110 CFM.

Duty Cycle

The duty cycle of your compressor will also have an effect on how efficient the airflow delivery is. Refer to **Figure 16** for some common duty cycles and what they mean.

50/50	Compressor can be used for up to half of its cycle (spends same amount of time resting as it does working).
60/40	Compressor can be used for up to 60% of its cycle; spends 40% of time resting.
75/25	Compressor can be used for up to 75% of its cycle; spends 25% of time resting.
85/15	Compressor can be used for up to 85% of its cycle; spends 15% of time resting.
100	Compressor does not need to rest. Engine/motor has a cooling component allowing for constant air delivery.

Figure 16. Common duty cycles.

Compressing air produces a lot of heat, so the pump and motor require some resting time in order to cool down. The "cycle" of an air compressor refers to how long it takes for the compressor to be used and subsequently cooled. The duty cycle dictates what percentage of the cycle you can spend using air before it must rest.

Operating Pressure (Pounds/Inch²)

Your second consideration should be the recommended or required operating pressure of your tool. An air tool recommended for 70 PSI should never be connected to a hose or system set to higher than that operating pressure, as the tool or valves could burst. A regulator allows tools with a lower rating than the system to still be attached, because the line pressure can be adjusted to a safe level.

The Model T33858 has a regulator and pressure gauge for controlling and observing your line pressure, allowing for very little setup.

Connecting Air Tool

Use the following steps as a guide for attaching an air tool. As there are a wide variety of tool and hose options, your connections may differ slightly from this very simple outline.

Items Needed	Qty
Air Tool (Rated for 90 PSI or Less)	1
Air Hose	1
Compatible Plug w/ 1/4" Coupling Size	1
Additional Connection Fittings As Ne	eded



AWARNING

Eye injury hazard! Always wear safety glasses when handling pressurized air system.

WARNING

Always wear personal protective equipment required by air tool you are using. Pneumatic grinders, sanders, paint sprayers, etc., require a respirator to protect against long-term respiratory damage. Prolonged exposure to tools with high sound ratings can result in hearing loss without the use of hearing protection.

To connect air tool:

1. Turn regulator knob (see **Figure 17**) all the way counterclockwise.

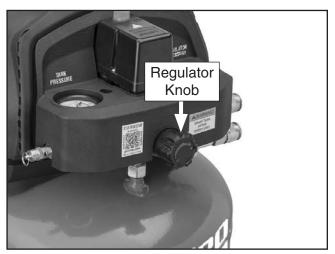


Figure 17. Location of regulator knob.

Insert air hose plug into quick-connect coupler (see Figure 18).

Note: When plug is fully seated, quick-connect coupler will automatically lock it in place.

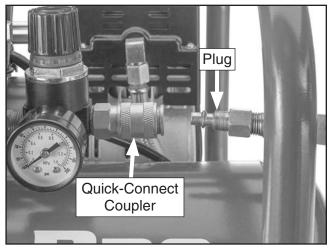


Figure 18. Example of inserting plug into coupler.

3. Connect other end of hose to air tool.

Note: Refer to air tool instructions for specifications, method of connection, and proper use of tool.

Disconnecting Air Tool



AWARNING

Eye injury hazard! Always wear safety glasses when handling pressurized air system.

ACAUTION

Pressurized air escaping through valves/ fittings can be extremely loud. Protect hearing with ANSI-approved hearing protection in following steps.

To disconnect air tool:

- Turn regulator knob (see Figure 17) all the way counterclockwise.
- 2. Disconnect air tool from hose.
- **3.** While holding hose near plug, push coupler sleeve toward compressor to release hose plug (see **Figure 19**).

Note: Air will escape when connection is broken if tank is still pressurized.

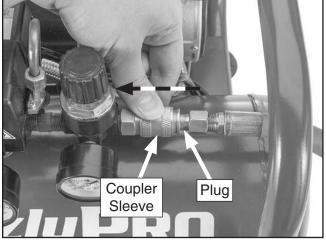


Figure 19. Example of pushing coupler sleeve to release plug.



SECTION 5: ACCESSORIES

▲WARNING

Installing unapproved accessories may cause machine to malfunction, resulting in serious personal injury or machine damage. To reduce this risk, only install accessories recommended for this machine by Grizzly.

NOTICE

Refer to our website or latest catalog for additional recommended accessories.

H7664—Nailer/Stapler Kit

This nail gun/staple gun shoots 5/8"-2" 18-gauge brads and 5/8"-15/8" 18-gauge staples with 1/4" crown. Features a view window that tells you when to reload, trigger mode, adjustable depth stop, rubberized grip, and adjustable exhaust port. Operating pressure of 60-100 PSI.



Figure 20. H7664 Nailer/Stapler Kit.

H5527—18-Gauge Brad Nailer Kit

This 18-gauge nail gun accepts up to 100 ⁵/₈"–2" brads, operates on 60–100 PSI, features a 360 degree adjustable exhaust, and only weighs 3.5 lbs. Includes a case.



Figure 21. H5527 18-Gauge Brad Nailer Kit.

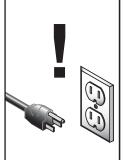
Basic Eye Protection

T32323—Woodturners Face Shield T32401—EDGE Brazeau Safety Glasses, Clear T32402—EDGE Khor G2 Safety Glasses, Tint T32404—EDGE Mazeno Safety Glasses, Clear



Figure 22. Assortment of basic eye protection.

SECTION 6: MAINTENANCE



AWARNING

Compressor will turn *ON* automatically when pressure switch is set to *ON*. To reduce risk of shock/accidental startup, always disconnect machine from power before adjustments, maintenance, or service.



AWARNING

Eye injury hazard! Always wear safety glasses when maintaining pressurized air system.



AWARNING

Do not touch compressor head or discharge line during use or immediately after compressor is active. These hot parts may cause burns. Allow compressor to cool before handling.

Schedule

For optimum performance from this machine, this maintenance schedule must be strictly followed.

Ongoing

To minimize your risk of injury and maintain proper machine operation, shut down the machine immediately if you ever observe any of the following items, and fix the problem before continuing operations:

- Damaged safety relief valve, pressure switch, or drain valve.
- Worn or damaged wires, cords, and plugs.
- Tank rust/corrosion.
- Any other unsafe condition.

Daily Maintenance

- Open drain valve to drain any condensation (see Page 23).
- Test function of safety relief valve and clear any obstructions.

ACAUTION

Releasing air through safety relief valve or drain valve can be extremely loud. Protect hearing with ANSI-approved hearing protection when testing/draining valves.

Weekly Maintenance

- Inspect tank for rust, damage, or wear.
 Promptly replace a damaged tank.
- Check air filter (see Page 23).
- Clean/vacuum dust buildup off compressor.



AWARNING

Do not use flammable cleanser to clean machine. Compressor components often produce sparks that could ignite once machine is connected to power and turned *ON*.

Semi-Annual Maintenance

 Check hoses/connections for leaks (see Page 24). If soapy water at suspected leak creates bubbles, air is escaping. Repair or replace affected parts.

Lubrication

The Model T33858 is an oil-free air compressor, so no lubrication is necessary. Refer to the instructions of any attached air tools to determine if they require air line lubrication before they are connected.



Draining Tank

Some water may accumulate in the tank depending on usage and humidity. Drain water from the tank daily to increase the lifespan of the compressor and air tools, and to prevent tank corrosion.

To drain tank:

DISCONNECT MACHINE FROM POWER!

ACAUTION

Releasing air through safety relief valve can be extremely loud. Protect hearing with ANSI-approved hearing protection in following step.

- 2. Use safety relief valve to reduce tank pressure to less than 10 PSI.
- **3.** Open drain valve (see **Figure 23**) to drain condensation from tank.

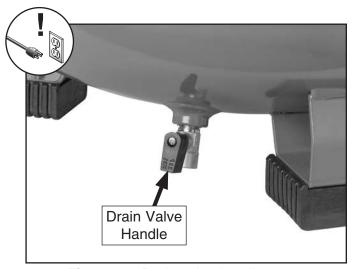


Figure 23. Drain valve handle open.

Checking Air Filter

The air filter helps prevent impurities and dust from entering the compressor and reduces noise. A dirty filter will result in a less efficient system and could become a fire hazard.

To check air filter:

DISCONNECT MACHINE FROM POWER!

ACAUTION

Releasing air through safety relief valve can be extremely loud. Protect hearing with ANSI-approved hearing protection in following step.

- 2. Use safety relief valve to reduce tank pressure to less than 10 PSI.
- **3.** While holding base of filter assembly in place, turn filter cap counterclockwise to remove cap (see **Figure 24**).

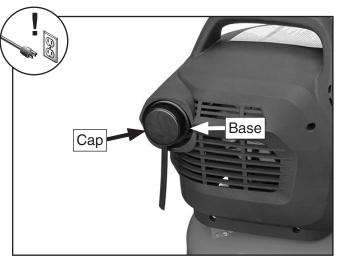


Figure 24. Air filter assembly components.

- If filter is fairly clean and there has not been a drop in efficiency of compressor, replace cap. No replacement is required.
- If filter is dirty or clogged, or there has been a drop in efficiency of compressor, replace cap. Proceed to Step 4.
- **4.** Replace filter, then install cap (refer to part #77 in **Parts** beginning on **Page 35**).



Checking for Leaks

Air leaks will cause low air output and increase the time the compressor must run.

Checking for Leaks

- 1. Disconnect tools and hoses from compressor.
- Turn compressor ON and allow tank to fill until cut-out pressure is reached (150 PSI).
- DISCONNECT MACHINE FROM POWER!
- **4.** Listen for sound of air to find possible leak.
 - If you do not hear air escaping, and pressure in tank does not change, there is no leak.
 - If you do hear air escaping, or pressure in tank drops even with safety relief valve and drain valve closed, proceed to Step 5.
- **5.** Spray suspected air leak with soap and water solution and look for air bubbles.
 - If bubbles do not form, repeat at different location.
 - If bubbles do form, proceed to Fixing Leaks.

Fixing Leaks

Item Needed	Qty
Wire Brush	1
Thread Sealing Tape or Pipe Dope As	Needed

To fix leaks:

1. DISCONNECT MACHINE FROM POWER!



Releasing air through safety relief valve can be extremely loud. Protect hearing with ANSI-approved hearing protection while performing following step.

- 2. Use safety relief valve to reduce tank pressure to less than 10 PSI.
- 3. Open drain valve to relieve any remaining air.
- Remove fitting or valve that is leaking.
- **5.** Clean threads, apply thread sealing tape or pipe dope to threads, then re-install part.

Note: If a fitting or valve continues to leak after preceding steps, replace part.



Machine Storage

All machinery will develop serious rust problems and corrosion damage if it is not properly prepared for storage. Use the steps in this section to ensure that your machine remains in good condition.

To bring machine out of storage, perform the **Test Run** beginning on **Page 15**.



AWARNING

Eye injury hazard! Always wear safety glasses when handling pressurized air system.

Items Needed	Qty
Cleaner/Degreaser	As Needed
Rags	As Needed
Tarp or Plastic Sheet	1

To prepare machine for storage:

1. DISCONNECT MACHINE FROM POWER!



Releasing air through safety relief valve can be extremely loud. Protect hearing with ANSI-approved hearing protection while performing following step.

- **2.** Use safety relief valve to reduce tank pressure to less than 10 PSI.
- **3.** Open drain valve to drain any condensation from tank.
- 4. Disconnect air tool and hose from machine.
- **5.** Clean machine.



AWARNING

Do not use a flammable cleanser to clean machine. Compressor components often produce sparks that could ignite once machine is connected to power and turned *ON*.

- **6.** Close drain valve.
- 7. Cover machine with tarp or plastic sheet that will keep out dust and resist liquid or moisture. If machine will be stored in/near direct sunlight, use cover that will block UV rays.



SECTION 7: SERVICE

Review the troubleshooting procedures in this section if a problem develops with your machine. If you need replacement parts or additional help with a procedure, call our Technical Support. **Note:** *Please gather the serial number and manufacture date of your machine before calling.*

Troubleshooting

Motor & Electrical

Symptom	Possible Cause	Possible Solution
Machine does	Tank already pressurized.	Motor will not start if tank is fully pressurized.
not start, or power supply	2. Incorrect power supply voltage or circuit size.	2. Ensure correct power supply and circuit size (Page 11).
breaker immediately trips after startup.	Pressure switch cut-in/cut-out settings have been adjusted incorrectly.	3. Adjust settings (Page 31). Do not exceed cut-in/cut- out pressures listed on data sheet (Page 6) or inside pressure switch.
·	Power supply circuit breaker tripped or fuse blown.	4. Ensure circuit is free of shorts. Reset circuit breaker or replace fuse.
	Tripped thermal overload in motor, compressor is exceeding its duty cycle.	Reduce load on compressor and allow longer cool down periods.
	6. Start capacitor at fault.	6. Test/replace if at fault.
	7. Wiring broken, disconnected, or corroded.	7. Fix broken wires or disconnected/corroded connections.
	8. Check valve components are dirty/damaged.9. Pressure switch at fault.	 Clean/replace check valve components (Page 29). Turn compressor <i>OFF</i>, disconnect from power, and empty tank. DO NOT USE until switch is replaced.
	10. Motor or motor bearings at fault.	10. Replace motor.
Machine stalls or is underpowered.	 Air filter dirty/clogged. Pump/motor have restricted airflow. Pressure switch cut-in/cut-out settings have been adjusted incorrectly. 	 Replace air filter (Page 23). Clean cylinder fins, motor fan, and vent area. Adjust settings (Page 31). Do not exceed cut-in/cut-out pressures listed on data sheet (Page 6) or inside pressure switch.
	4. Tripped thermal overload in motor, compressor is exceeding its duty cycle.5. Extension cord too long.	4. Reduce load on compressor and allow longer cool down periods. 5. Move machine closer to power supply; use shorter
		extension cord.
	6. Check valve components are dirty/damaged.7. Motor or motor bearings at fault.8. Worn valves or rings/compressor pump at	6. Clean/replace check valve components (Page 29).7. Replace motor.8. Rebuild/replace.
Manalatina Inna	fault.	d. Dealers demonstrate in helts (see a sticker if
Machine has vibration or	Motor or component loose.	Replace damaged or missing bolts/nuts or tighten if loose.
noisy operation.	2. Machine feet loose.	2. Tighten fasteners.
	3. Motor fan rubbing on fan cover. 4. Motor bearings at fault.	 Fix/replace fan cover; replace loose/damaged fan. Test by rotating shaft; rotational grinding/loose shaft
	5. Compressor pump at fault.	requires bearing replacement. 5. Compressor piston rod/bearings/crankshaft is worn. Rebuild or replace pump.



Motor & Electrical (Cont.)

Symptom Possible Cause		Possible Solution	
Motor runs continuously.	Machine is undersized.	Use a smaller attachment tool(s) or a larger air compressor.	
	Regulator needs to be adjusted for lower airflow delivery.	Turn regulator knob counterclockwise to decrease line PSI.	
	3. Air leak in tank or delivery hose/pipes.	Check air tank, hose/pipes, and all connections for leaks (Page 24). Do not attempt to repair leaking/damaged tank, only replace.	
	4. Pressure switch at fault.	Turn compressor <i>OFF</i> , disconnect from power, and empty tank. DO NOT USE until switch is replaced.	
Pressure relief valve stays open and motor	Pressure switch cut-in/cut-out settings have been adjusted incorrectly.	Adjust settings (Page 31). Do not exceed cut-in/cut- out pressures listed on data sheet (Page 6) or inside pressure switch.	
will not stop running.	Pressure switch at fault, unit is trying to overpressurize tank.	Turn compressor <i>OFF</i> , disconnect from power, and empty tank. DO NOT USE until switch is replaced.	
	Pressure relief valve at fault/relieving pressure too early.	3. Replace.	

Operation

Symptom	Possible Cause	Possible Solution	
Air leaks from pressure switch.	Check valve components are dirty/damaged. Pressure switch at fault.	 Clean/replace check valve components (Page 29). Turn compressor <i>OFF</i>, disconnect from power, and empty tank. DO NOT USE until switch is replaced. 	
Low pressure in tank, or tank pressure drops after compressor is turned <i>OFF</i> .	 Drain valve is open. Air filter dirty/clogged. Regulator needs to be adjusted for lower airflow delivery. Pressure switch cut-in/cut-out settings have been adjusted incorrectly. Air leak in tank or delivery hose/pipes. Check valve components are dirty/damaged. Pressure relief valve releasing below cut-out pressure. Gasket(s) leaking. 	 Close drain valve. Replace air filter (Page 23). Turn regulator knob counterclockwise to decrease line PSI. Adjust settings (Page 31). Do not exceed cut-in/cut-out pressures listed on data sheet (Page 6) or inside pressure switch. Check air tank, hose/pipes, and all connections for leaks (Page 24). Do not attempt to repair leaking/damaged tank, only replace. Clean/replace check valve components (Page 29). Replace pressure relief valve. Check gaskets on cylinder head assemblies, repair or replace as needed. 	
Compressor does not build air pressure, or does not reach full pressure.	 Worn pump piston rings. Drain valve is open. Tank needs to be drained. Air filter dirty/clogged. Air leak in tank or delivery hose/pipes. Check valve components are dirty/damaged. Reed valve(s) not sealing. Head gasket or valve body gasket leaking. Worn pump piston rings. Broken crankshaft or connecting rod. 	 Inspect and replace pump piston rings. Close drain valve. Open drain valve to drain condensation, then close. Replace air filter (Page 23). Check air tank, hose/pipes, and all connections for leaks (Page 24). Do not attempt to repair leaking/damaged tank, only replace. Clean/replace check valve components (Page 29). Remove cylinder head and replace reed valve(s). Remove cylinder head and replace gasket(s). Inspect and replace pump piston rings. Replace or rebuild compressor pump. 	



Operation (Cont.)

Symptom	Possible Cause	Possible Solution
Air leaks from air filter.	 Check valve components are dirty/damaged. Reed valve(s) not sealing. 	 Clean/replace check valve components (Page 29). Remove cylinder head and replace reed valve(s).
Air tools have oily discharge.	 Tank needs to be drained. Air filter dirty/clogged. In-line oiler is out of adjustment (if used). In-line filter is damaged or missing (if used). Compressor pump is at fault. 	 Open drain valve to drain condensation, then close. Replace air filter (Page 23). Adjust in-line oiler drip ratio or use correct viscosity oil. Replace filter or in-line filter assembly. Worn compressor piston, rings, or valves. Rebuild or replace pump.
Air tools have watery discharge or get cold and freeze up with ice during use.	 Tank needs to be drained. In-line water separator is full (if used). Ambient environment has too much humidity. 	 Open drain valve to drain condensation, then close. Drain water separator. Install in-line air dryer and water separator.
Air tool has low supply pressure but compressor has sufficient air pressure.	 Air hose is too long. Regulator needs to be adjusted for higher airflow delivery. Machine is undersized. In-line filter is damaged or clogged (if used). In-line water separator is full (if used). Pressure switch cut-in/cut-out settings have been adjusted incorrectly. Air leaks in hose. Regulator at fault. Pressure gauge(s) at fault. 	 Use shorter hose. Turn regulator knob clockwise to increase line PSI. DO NOT exceed pressure rating of attached tool. Use a smaller attachment tool(s) or a larger air compressor. Replace filter or in-line filter assembly. Drain water separator. Adjust settings (Page 31). Do not exceed cut-in/cut-out pressures listed on data sheet (Page 6) or inside pressure switch. Check air hoses and all connections for leaks (Page 24). Inspect regulator for leaks. Replace if at fault. Replace pressure gauge(s).
Safety relief valve leaks.	Pressure switch cut-in/cut-out settings have been adjusted incorrectly. Safety relief valve at fault. Pressure switch at fault.	1. Adjust settings (Page 31). Do not exceed cut-in/cut-out pressures listed on data sheet (Page 6) or inside pressure switch. 2. Test/replace. 3. Turn compressor <i>OFF</i> , disconnect from power, and empty tank. DO NOT USE until switch is replaced.
Delivered air is dirty or has excessive moisture.	 Tank needs to be drained. In-line filter or water separator needed. Delivery pipes are dirty (if used). 	 Open drain valve to drain condensation, then close. Install in-line air filter and water separator. Remove delivery pipes, clean out and replace.
Compressor knocking.	 Air filter dirty/clogged. Excess carbon build-up on piston or valves. Piston assembly loose. 	 Replace air filter (Page 23). Take compressor to authorized service center. Inspect and repair piston and connecting rod.



Inspecting Check Valve

The check valve directs compressed air into the tank and prevents it from flowing back toward the pump. The diaphragm in the check valve can become damaged, twisted, or dirty and cause the valve to leak or prevent the compressor from pressurizing.

Tools Needed	Qty
Hex Wrench 4mm	1
Phillips Head Screwdriver #2 (6"+ Shaft)	1
Wrench or Socket 19mm	1



AWARNING

Eye injury hazard! Always wear safety glasses when handling pressurized air system.

To inspect check valve:

1. DISCONNECT MACHINE FROM POWER!

ACAUTION

Releasing air through safety relief valve can be extremely loud. Protect hearing with ANSI-approved hearing protection while performing following step.

- 2. Use safety relief valve to reduce tank pressure to less than 10 PSI.
- **3.** Open drain valve to release any remaining air (see **Figure 25**).

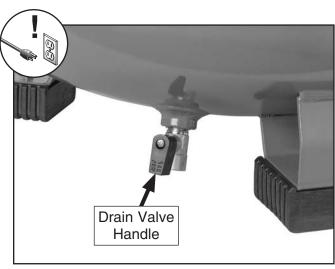


Figure 25. Drain valve handle open.

- **4.** Turn filter assembly base counterclockwise to remove filter assembly (see **Figure 26**).
- 5. Remove (4) cap screws shown in Figure 26.

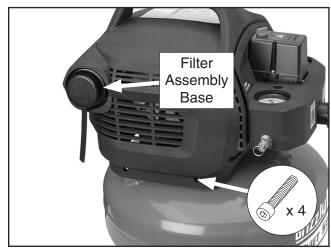


Figure 26. Location of filter assembly base and shroud cap screws.

6. Remove (6) tap screws at locations shown in **Figure 27** to remove motor/pump shroud.

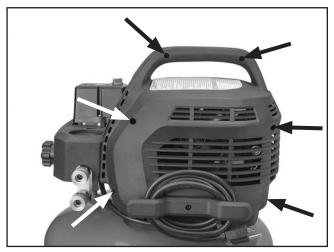


Figure 27. Locations of shroud tap screws.

7. Remove cap, shown in **Figure 28**, from check valve.

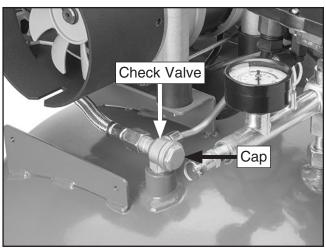


Figure 28. Location of check valve cap (control panel removed for clarity).

Inspect seal ring and diaphragm (see Figure 29) for damage and dirt.

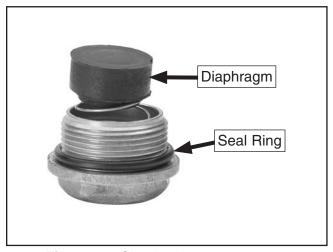


Figure 29. Check valve components.

- **9.** Replace any damaged parts and clean any dirt from diaphragm and seal ring.
- 10. Re-install check valve cap.

IMPORTANT: Make sure diaphragm presses squarely against discharge line and exhaust tube opening.

Note: Do not add thread sealant or thread sealing tape to cap threads. Seal ring provides sufficient sealing.

- **11.** Install motor/pump shroud with screws removed in **Steps 5**–6.
- 12. Install filter assembly.
- 13. Close drain valve.

Adjusting Cut-In/Cut-Out Settings

The pressure switch ensures the compressor will turn *ON* when the tank pressure drops to approximately 120 PSI (the cut-in pressure), and will turn *OFF* when the tank pressure reaches 150 PSI (the cut-out pressure). Should the pressure switch fail to turn *OFF* the machine, the safety relief valve will open shortly after the pressure exceeds 150 PSI and prevent over-pressurization.

Tools Needed	Qty
Phillips Head Screwdriver #2	1
Flat Head Screwdriver 1/4"	1

AWARNING

Cut-in and cut-out settings have been factory set at proper PSI range. Only adjust pressure switch settings if compressor is cutting-in or cutting-out at incorrect pressures. Tank could burst if filled with more pressure than it is designed for.



AWARNING

Eye injury hazard! Always wear safety glasses when handling pressurized air system.

Adjusting Cut-In/Cut-Out Differential

If the minimum and maximum tank pressure settings both have to be raised or lowered at the same time, then follow these steps.

To adjust cut-in/cut-out settings:

- Operate compressor and record cut-in and cut-out pressures.
- DISCONNECT MACHINE FROM POWER!

ACAUTION

Releasing air through safety relief valve can be extremely loud. Protect hearing with ANSI-approved hearing protection while performing following step.

- Use safety relief valve to reduce tank pressure to less than 10 PSI.
- **4.** Loosen Phillips head screws shown in **Figure 30** to remove pressure switch cover.

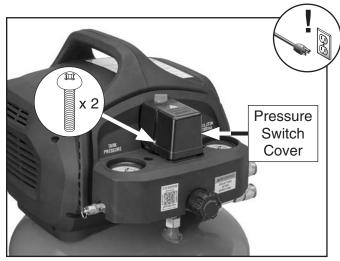


Figure 30. Location of pressure switch cover and Phillips head screws.

 Adjust screw shown in Figure 31 to change minimum and maximum tank pressure settings.

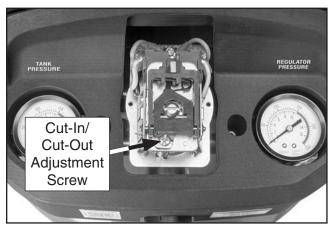


Figure 31. Location of cut-in/cut-out adjustment screw.

- Turn screw half turn clockwise to increase both settings.
- Turn screw half turn counterclockwise to decrease both settings.
- **6.** Install pressure switch cover.
- 7. Connect machine to power, start compressor, and cycle compressor through cut-in/cut-out pressures. If compressor does not automatically turn *OFF* at 150 PSI, turn machine *OFF* before pressure reaches 155 PSI. Adjust pressure switch settings until cut-out pressure is 150 PSI or lower.

Adjusting Only Cut-Out Setting

If only the maximum tank pressure setting needs to be adjusted, then follow these steps. Keep in mind that the allowable pressure differential between cut-in pressure and cut-out pressure must be kept between 30–40 PSI. Exceeding this range can cause the compressor to overheat.

To adjust only cut-out setting:

- 1. Operate compressor and record cut-in and cut-out pressures.
- 2. DISCONNECT MACHINE FROM POWER!

ACAUTION

Releasing air through safety relief valve can be extremely loud. Protect hearing with ANSI-approved hearing protection while performing following step.

- **3.** Use safety relief valve to reduce tank pressure to less than 10 PSI.
- **4.** Loosen Phillips head screws shown in **Figure 32** to remove pressure switch cover.

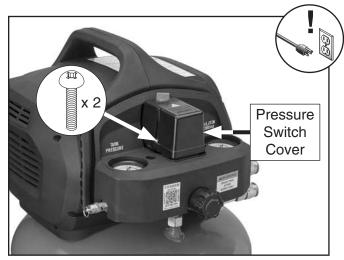


Figure 32. Location of pressure switch cover and Phillips head screws.

5. Adjust screw shown in **Figure 33** to change maximum tank pressure setting.

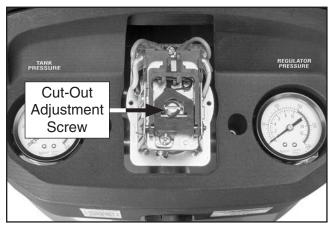


Figure 33. Location of cut-out only adjustment screw.

- Turn screw half turn clockwise to increase tank pressure.
- Turn screw half turn counterclockwise to decrease tank pressure.
- **6.** Install pressure switch cover.
- 7. Connect machine to power, start compressor, and cycle compressor through cut-in/cut-out pressures. If compressor does not automatically turn *OFF* at 150 PSI, turn machine *OFF* before pressure reaches 155 PSI. Adjust pressure switch settings until cut-out pressure is 150 PSI or lower.



SECTION 8: WIRING

These pages are current at the time of printing. However, in the spirit of improvement, we may make changes to the electrical systems of future machines. Compare the manufacture date of your machine to the one stated in this manual, and study this section carefully.

If there are differences between your machine and what is shown in this section, call Technical Support at (570) 546-9663 for assistance BEFORE making any changes to the wiring on your machine. An updated wiring diagram may be available. **Note:** Please gather the serial number and manufacture date of your machine before calling. This information can be found on the main machine label.

▲WARNING Wiring Safety Instructions

SHOCK HAZARD. Working on wiring that is connected to a power source is extremely dangerous. Touching electrified parts will result in personal injury including but not limited to severe burns, electrocution, or death. Disconnect the power from the machine before servicing electrical components!

MODIFICATIONS. Modifying the wiring beyond what is shown in the diagram may lead to unpredictable results, including serious injury or fire. This includes the installation of unapproved aftermarket parts.

WIRE CONNECTIONS. All connections must be tight to prevent wires from loosening during machine operation. Double-check all wires disconnected or connected during any wiring task to ensure tight connections.

CIRCUIT REQUIREMENTS. You MUST follow the requirements at the beginning of this manual when connecting your machine to a power source.

WIRE/COMPONENT DAMAGE. Damaged wires or components increase the risk of serious personal injury, fire, or machine damage. If you notice that any wires or components are damaged while performing a wiring task, replace those wires or components.

MOTOR WIRING. The motor wiring shown in these diagrams is current at the time of printing but may not match your machine. If you find this to be the case, use the wiring diagram inside the motor junction box.

CAPACITORS/INVERTERS. Some capacitors and power inverters store an electrical charge for up to 10 minutes after being disconnected from the power source. To reduce the risk of being shocked, wait at least this long before working on capacitors.

EXPERIENCING DIFFICULTIES. If you are experiencing difficulties understanding the information included in this section, contact our Technical Support at (570) 546-9663.

NOTICE COLOR KEY BLACK I **BLUE** LIGHT The photos and diagrams YELLOW included in this section are YELLOW WHITE = **BROWN** BLUE **GREEN** best viewed in color. You GREEN **GRAY PURPLE** can view these pages in TUR-QUOISE color at www.grizzly.com. RED ORANGE **PINK**



Wiring Diagram

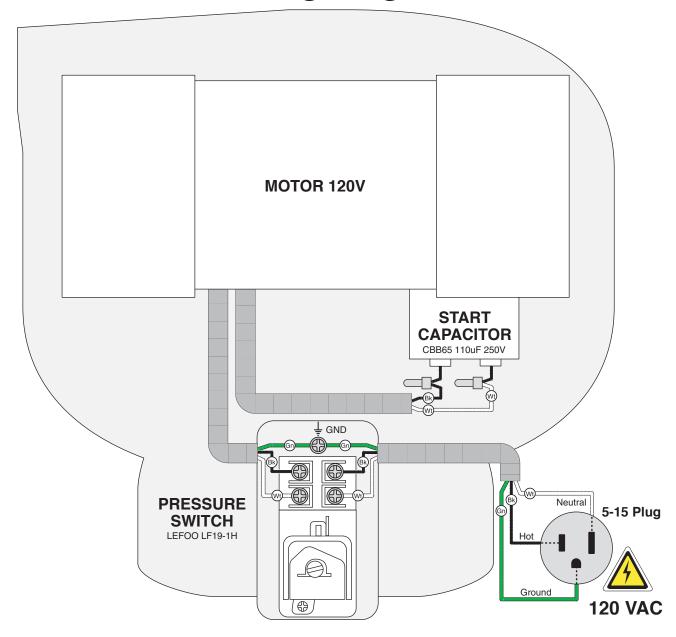




Figure 34. Pressure switch wiring.



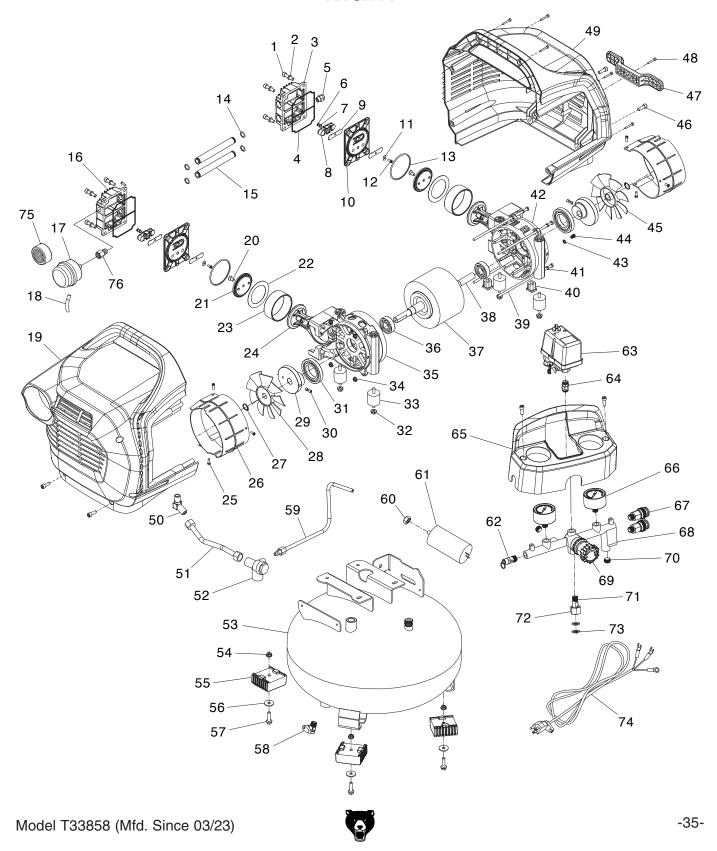


Figure 35. Start capacitor wiring.

SECTION 9: PARTS

To order parts, contact MEGA by phone at (832) 415-6995 or email at CS@megacompressor.com.

Main



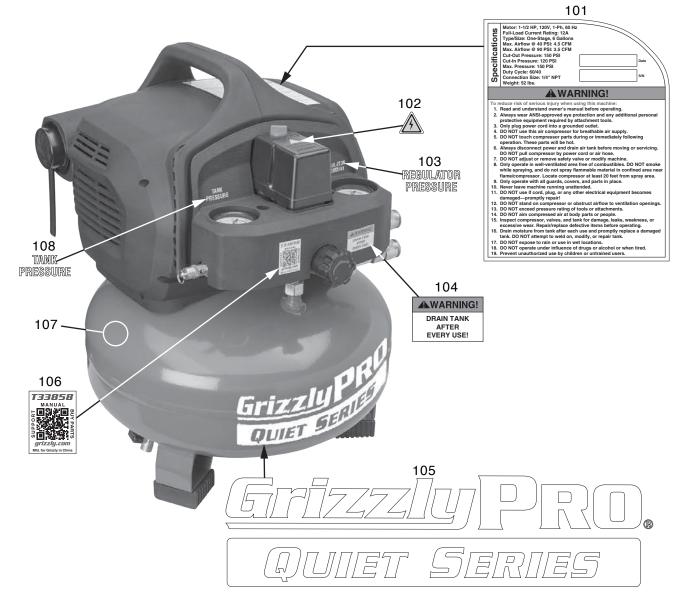
Main Parts List

REF	DESCRIPTION	
1	CAP SCREW M6-1 X 25	8
2	LOCK WASHER 6MM	8
3	CYLINDER HEAD	1
4	CYLINDER HEAD GASKET	2
5	SLOW START VALVE G 1/4" 13-14 PSI	1
6	TAP SCREW M4 X 10	2
7	LOCK WASHER 4MM	2
8	VALVE STOP ALUMINUM	2
9	VALVE REED	4
10	VALVE PLATE	2
11	VALVE COMPRESSION BACKER	2
12	PHLP HD SCR M47 X 6	2
13	O-RING 66 X 2.6	2
14	O-RING 9.5 X 2	4
15	CONNECTING TUBE	2
16	CYLINDER HEAD	1
17	AIR FILTER ASSEMBLY	1
18	FILTER TUBE 10 X 7MM NYLON	
19	SHROUD LEFT	
20	FLAT HD CAP SCR M6-1 X 16	
21	PISTON CAP	2
22	PISTON RING 68 X 48 X 1MM	2
23	CYLINDER	2
24	CONNECTING ROD	2
25	PHLP HD SCR M47 X 8	6
26	FAN HOUSING	2
27	EXT RETAINING RING 14MM	2
28	FAN LEFT	1
29	ECCENTRIC	2
30	SET SCREW M8-1.25 X 10	4
31	BALL BEARING 6006-2RS	2
32	FLANGE NUT M6-1	4
33	VIBRATION DAMPER	4
34	FLANGE NUT M58 4	
35	CRANKCASE LEFT 1	
36	BALL BEARING 6203-2RS	
37	STATOR	1
38	ROTOR	1

REF	DESCRIPTION		
39	HEX BOLT M58 X 160		
40	STRAIN RELIEF TYPE-1 5/8"	2	
41	LOCK WASHER 5MM		
42	CRANKCASE RIGHT	1	
43	INT TOOTH WASHER 5MM	1	
44	PHLP HD SCR M58 X 10	1	
45	FAN RIGHT	1	
46	CAP SCREW M58 X 10	6	
47	CORD CLEAT	1	
48	TAP SCREW M4.2 X 18	7	
49	SHROUD RIGHT	1	
50	ELBOW FITTING 45-DEG 1/4" PT X M14-1.5	1	
51	BRAIDED DISCHARGE TUBE M14-1.5 X 170	1	
52	CHECK VALVE G 3/8" X M10-1 X M14-1.5	1	
53	TANK	1	
54	FLANGE NUT M6-1	3	
55	FOOT PAD	3	
56	FENDER WASHER 6MM		
57	FLANGE BOLT M6-1 X 25	3	
58	BALL DRAIN VALVE 1/4" PT		
59	DISCHARGE PIPE 6MM	1	
60	LOCK NUT M8-1	1	
61	S CAPACITOR 125M 250V M8-1 X 10	1	
62	SAFETY RELIEF VALVE 1/4" PT 170 PSI	1	
63	PRESSURE SWITCH LEFOO LF19-1H	1	
64	PIPE NIPPLE 1/4" PT X 1-1/16"	1	
65	CONTROL PANEL	1	
66	PRESSURE GAUGE 1/4" PT	2	
67	COUPLER UNIVERSAL 1/4" NPT 1/4" BODY	2	
68	REGULATOR	1	
69	REGULATOR KNOB	1	
70	PIPE FITTING PLUG 1/4" PT	2	
71	PIPE NIPPLE 1/4" PT		
72	PIPE FITTING NUT G 3/8"		
73	GASKET 7.5 X 14.5 X 1.5MM PAPER		
74	POWER CORD 14G 3W 72" 5-15P	1	
75	FILTER	2	
76	PIPE FITTING G 1/4"	1	



Labels & Cosmetics



REF	PART#	DESCRIPTION
101	PT33858101	MACHINE ID LABEL
102	PT33858102	ELECTRICITY LABEL
103	PT33858103	REGULATOR PRESSURE LABEL
104	DT33959104	DRAIN TANK LAREI

KEF	PARI#	DESCRIPTION
105	PT33858105	GRIZZLY PRO LABEL
106	PT33858106	QR CODE LABEL
107	PT33858107	TOUCH-UP PAINT, GRIZZLY GREEN
108	PT33858108	TANK PRESSURE LABEL

AWARNING

Safety labels help reduce the risk of serious injury caused by machine hazards. If any label comes off or becomes unreadable, the owner of this machine MUST replace it in the original location before resuming operations. For replacements, contact (800) 523-4777 or www.grizzly.com.





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