

READ THIS FIRST



Model T33151

*****IMPORTANT UPDATE*****

For Machines Mfd. Since 03/22
and Owner's Manual Printed 03/22

For questions or help with this product contact Tech Support at (570) 546-9663 or techsupport@grizzly.com

The following changes were recently made since the owner's manual was printed:

- Packing material has been added to body interior to protect motor and impeller housing during shipping.
- Assembly section has been added.

Aside from this information, all other content in the owner's manual applies and **MUST** be read and understood for your own safety. **IMPORTANT: Keep this update with the owner's manual for future reference.**

For questions or help, contact our Tech Support at (570) 546-9663 or techsupport@grizzly.com.

T33151 Assembly

The machine must be fully assembled and the packing material included for shipping must be removed before the machine can be operated.

Tool Needed	Qty
Flat Head Screwdriver 1/4"	1

To assemble machine:

1. Remove pre-filter from intake side of machine (see **Figure 1**).

Tip: Use flat head screwdriver to gently pry bottom of filter up to remove it, being careful not to damage filter.

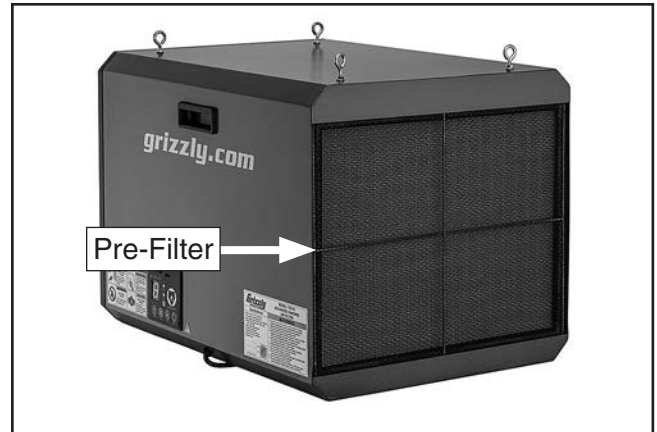


Figure 1. Location of pre-filter.

2. Remove primary filter from intake side of machine (see **Figure 2**).

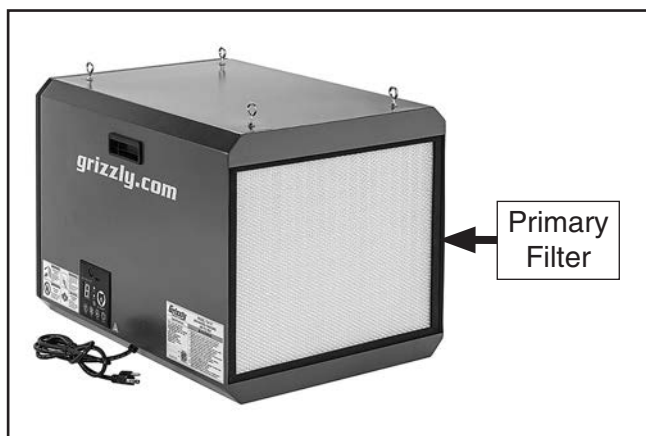


Figure 2. Location of primary filter.

3. Remove any internal packing material from around impeller housing.
4. Confirm circuit boards (see **Figure 3**) have not been knocked loose from control panel housing, and that there are no loose wiring connections.

NOTICE

Model T33151 has sensitive electrical components that may become loose or dislodged during shipping. Verify electrical system connections and components are secure before connecting machine to power.

Note: A wiring diagram for Model T33151 has been provided on **Page 31** of **Owner's Manual**.

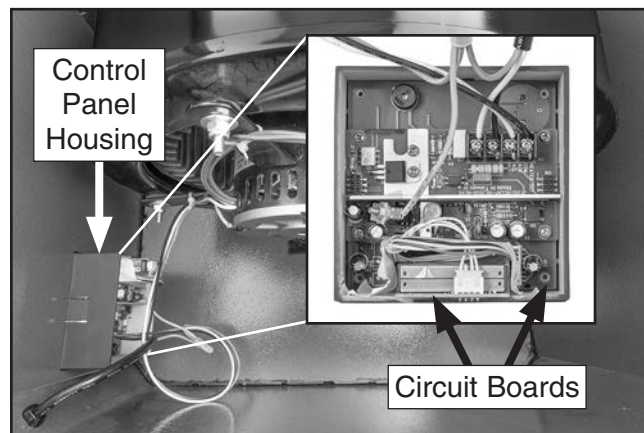


Figure 3. Circuit boards correctly installed in control panel housing.

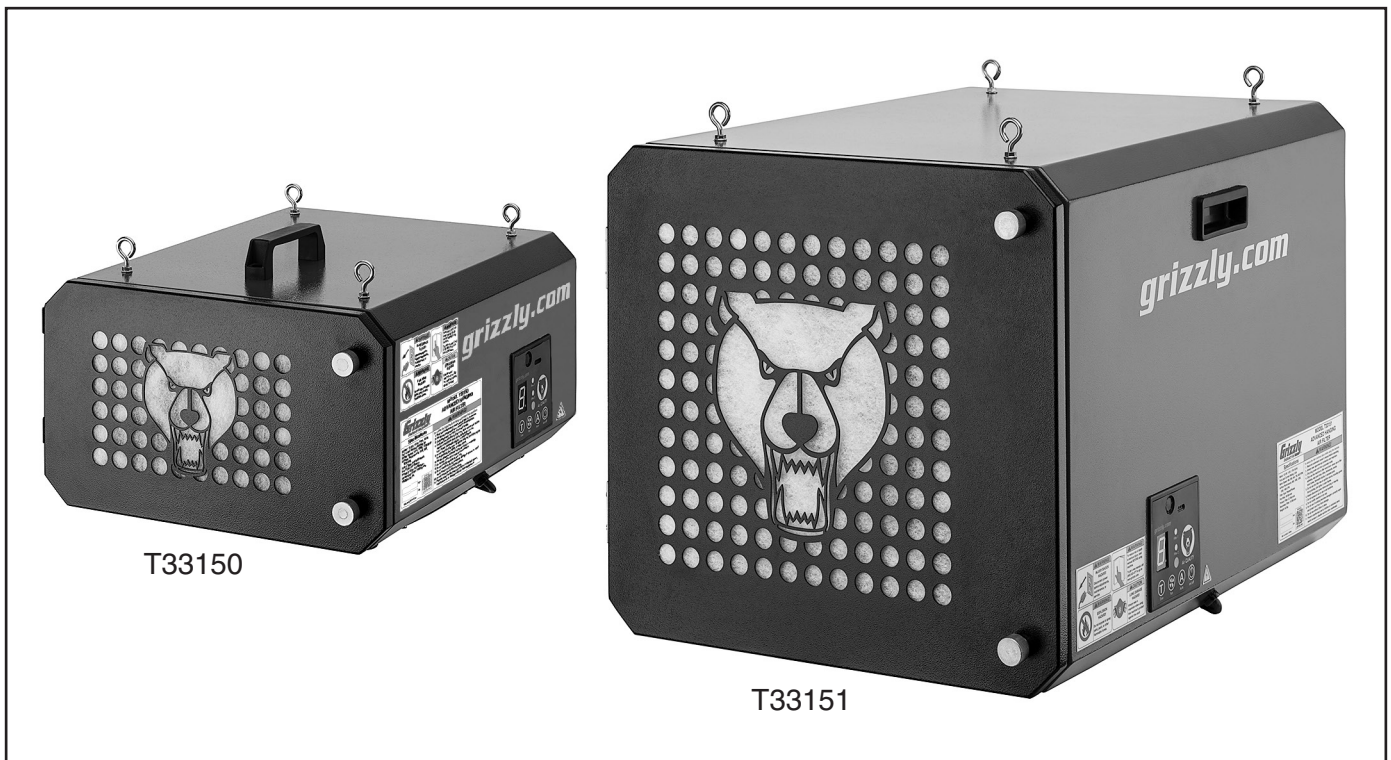
5. Remove plastic covering from primary filter, then install primary filter.
6. Install pre-filter.
7. Proceed to **Test Run** on **Page 17** of **Owner's Manual** before proceeding with operation.



Grizzly **Industrial, Inc.**®

MODEL T33150/T33151 ADVANCED HANGING AIR FILTERS OWNER'S MANUAL

(For models manufactured since 03/22)



COPYRIGHT © MARCH, 2022 BY GRIZZLY INDUSTRIAL, INC.
**WARNING: NO PORTION OF THIS MANUAL MAY BE REPRODUCED IN ANY SHAPE
OR FORM WITHOUT THE WRITTEN APPROVAL OF GRIZZLY INDUSTRIAL, INC.**

#SS22175 PRINTED IN TAIWAN

V1.03.22

*****Keep for Future Reference*****

 **WARNING!**

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.

 **WARNING!**

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.

Table of Contents

INTRODUCTION.....	2
Contact Info.....	2
Manual Accuracy.....	2
Identification.....	3
Controls & Components.....	4
Machine Data Sheet (T33150).....	6
Machine Data Sheet (T33151).....	8
SECTION 1: SAFETY.....	10
Safety Instructions for Machinery.....	10
Additional Safety for Air Filters.....	12
SECTION 2: POWER SUPPLY.....	13
SECTION 3: SETUP.....	15
Unpacking.....	15
Needed for Setup.....	15
Inventory.....	15
T33150 Assembly.....	16
Site Considerations.....	16
Test Run.....	17
Site Planning.....	18
Installing Air Filter.....	19
SECTION 4: OPERATIONS.....	22
Operation Overview.....	22
General.....	22
Filtering Performance.....	23
SECTION 5: ACCESSORIES.....	24
SECTION 6: MAINTENANCE.....	26
Schedule.....	26
Cleaning/Replacing Filters.....	26
Replacing Remote Control Batteries.....	27
Machine Storage.....	27
SECTION 7: SERVICE.....	28
Troubleshooting.....	28
SECTION 8: WIRING.....	29
Wiring Safety Instructions.....	29
T33150 Wiring Diagram.....	30
T33151 Wiring Diagram.....	31
SECTION 9: PARTS.....	32
T33150 Main.....	32
T33151 Main.....	34
T33150 Labels & Cosmetics.....	35
T33151 Labels & Cosmetics.....	36
WARRANTY & RETURNS.....	37

INTRODUCTION

Contact Info

We stand behind our machines! If you have questions or need help, contact us with the information below. Before contacting, make sure you get the **serial number** and **manufacture date** from the machine ID label. This will help us help you faster.

Grizzly Technical Support
1815 W. Battlefield
Springfield, MO 65807
Phone: (570) 546-9663
Email: techsupport@grizzly.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

WARNING

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.

CAUTION

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.



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.

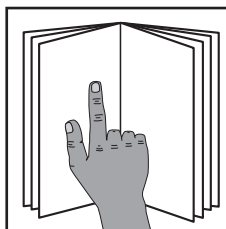
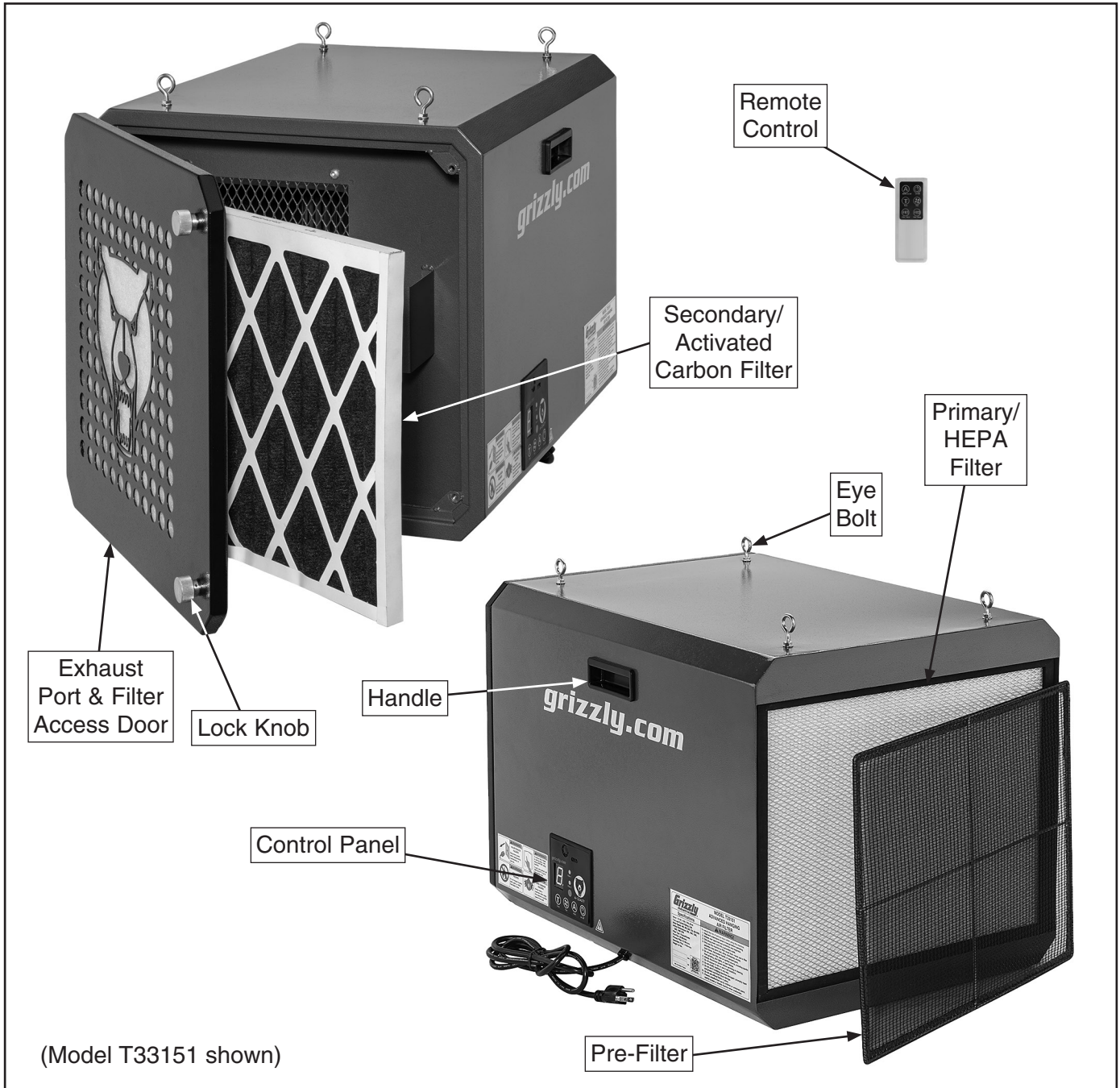
Alternatively, you can call our Technical Support for help. Before calling, make sure you write down the **manufacture date** and **serial number** from the machine ID label (see below). This information is required for us to provide proper tech support, and it helps us determine if updated documentation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

		MODEL GXXXX MACHINE NAME
SPECIFICATIONS		 WARNING!
Motor:		To reduce risk of serious injury when using this machine:
Specification:		1. Read manual before operation.
Specification:	Manufacture Date	2. Wear safety glasses and respirator.
Specification:		3. Make sure power is connected to grounded circuit before starting.
Specification:		4. Make sure the motor has stopped and disconnect power before adjustments, maintenance, or service.
Weight:		5. DO NOT expose to rain or dampness.
	Date	6. DO NOT modify this machine in any way.
		7.
		8.
		9. Serial Number
		10. Maintain machine carefully to prevent accidents.
Manufactured for Grizzly in Taiwan		



Identification

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



! WARNING

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



Controls & Components



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.

Control Panel

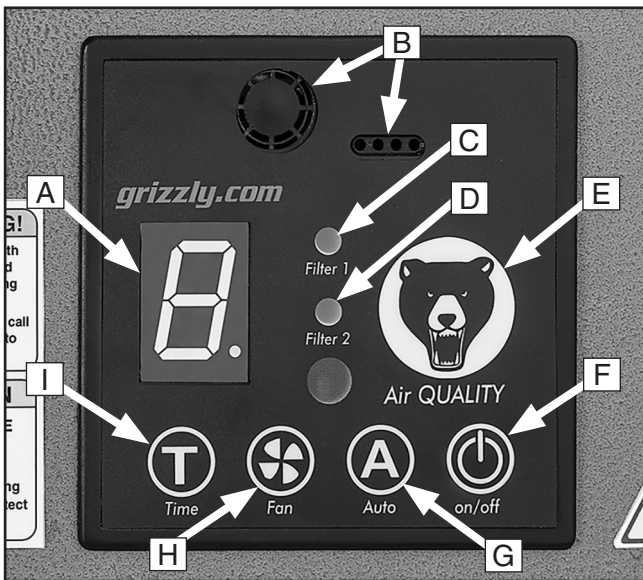


Figure 1. Control panel.

- C. **Filter 1 Indicator:** Remains blue during normal operations. Turns red after 300 hours run-time to indicate HEPA filter must be replaced.
 - D. **Filter 2 Indicator:** Remains blue during normal operations. Turns red after 600 hours run-time to indicate activated carbon filter must be replaced.
 - E. **Air QUALITY Indicator:** Illumination cycles between green, orange, and red as changing levels of particulate matter (PM_{2.5}) and volatile organic compounds (VOC) are detected by air quality sensors. Green is lowest level; red is highest level.
 - F. **on/off Button:** Powers machine **ON** and **OFF**.
 - G. **Auto Indicator:** Illuminates when fan speed has been set to automatic mode. In this mode, machine will automatically adjust fan speed according to air quality, with fan speed increasing as air quality worsens. As air quality improves, fan speed will automatically decrease.
 - H. **Fan Indicator:** Illuminates when fan speed setting is displayed on digital readout.
 - I. **Time Indicator:** Illuminates when time setting is displayed on digital readout.
- A. **Digital Readout:** Displays time setting or fan speed setting (depending on which indicator is illuminated).
 - B. **Air Quality Sensors:** Detect amount of particulate matter (PM_{2.5}) and/or volatile organic compounds (VOC) in air.



Remote Control

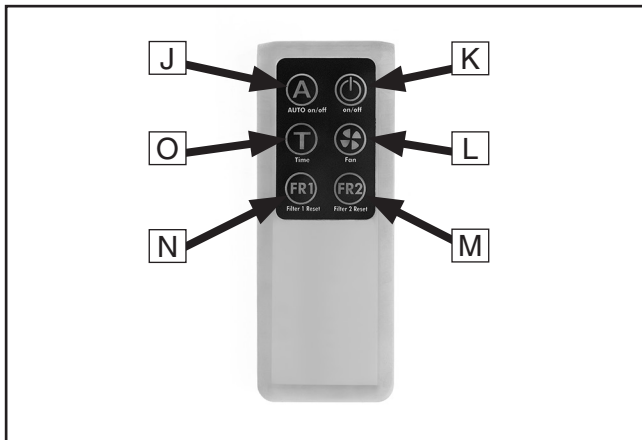


Figure 2. Remote control.

- J. **AUTO on/off Button:** Turns automatic fan speed setting **ON** or **OFF**.
- K. **on/off Button:** Powers machine **ON** or **OFF**.
- L. **Fan Button:** Cycles through fan speed settings as indicated on digital readout.
 - **T33150:** Speed settings **1** (400 CFM), **2** (500 CFM), and **3** (620 CFM).
 - **T33151:** Speed settings **1** (800 CFM), **2** (1000 CFM), **3** (1200 CFM), **4** (1300 CFM), and **5** (1400 CFM).
- M. **Filter 2 Reset Button (FR2):** Resets Filter 2 Indicator Light on control panel after activated carbon filter has been replaced. Press FR2 button on remote control and hold for 5 seconds. Machine will beep and light on control panel will turn blue.

- N. **Filter 1 Reset Button (FR1):** Resets Filter 1 Indicator Light on control panel after HEPA filter has been replaced. Press FR1 button on remote control and hold down for 5 seconds. Machine will beep and light on control panel will turn blue.
- O. **Time Button:** Cycles through time settings as indicated on digital readout. Time settings are 2 hours (**2**), 4 hours (**4**), 6 hours (**6**), 8 hours (**8**), and indefinite (**blank**). If left on indefinite, machine digital readout will return to indicating fan speed.

Exhaust Port & Filter Access Door

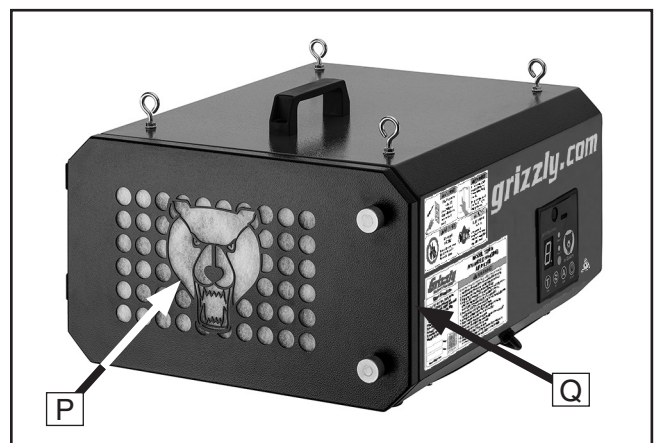


Figure 3. Exhaust port on T33150.

- P. **Exhaust Port:** Location where filtered air exits machine.
- Q. **Filter Access Door:** Unscrew knobs to access secondary activated carbon filter.





MACHINE DATA SHEET

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

MODEL T33150 3-SPEED HEPA HANGING AIR FILTER

Product Dimensions:

Weight..... 34 lbs.
 Width (side-to-side) x Depth (front-to-back) x Height..... 17-1/2 x 21-1/2 x 12-1/2 in.
 Footprint (Length x Width)..... 21-1/2 x 17-1/2 in.

Shipping Dimensions:

Type..... Cardboard
 Content..... Machine
 Weight..... 36 lbs.
 Length x Width x Height..... 22 x 14 x 26 in.

Electrical:

Power Requirement..... 110V, Single-Phase, 60 Hz
 Full-Load Current Rating..... 2A
 Minimum Circuit Size..... 15A
 Connection Type..... Cord & Plug
 Power Cord Included..... Yes
 Power Cord Length..... 72 in.
 Power Cord Gauge..... 18 AWG
 Plug Included..... Yes
 Included Plug Type..... 5-15
 Switch Type..... Control Panel & Remote Control

Motors:

Main

Horsepower..... 1/6 HP
 Phase..... Single-Phase
 Amps..... 2A
 Speed..... 1100, 1500, 1870 RPM
 Type..... Induction
 Bearings..... Sealed & Permanently Lubricated

Main Specifications:

Operation

Dust Collector Type..... Air Filter
 Approved Dust Types..... Particulate
 Filter Type..... Pleated, Panels
 Airflow Performance..... 400, 500, 620 CFM



Filter Information

Number of Filters..... 3
 Filtration Rating..... 0.3 Microns
 Pre-Filter Type..... Pleated Cotton
 Pre-Filter Length..... 16-3/8 in.
 Pre-Filter Width..... 7 in.
 Pre-Filter Thickness..... 3/16 in.
 Primary Filter Type..... HEPA
 Primary Filter Rating..... 99.97% at 0.3 Microns
 Primary Filter Length..... 415mm
 Primary Filter Width..... 178mm
 Primary Filter Thickness..... 27mm
 Secondary Filter Type..... Activated Carbon
 Secondary Filter Rating..... 10 Microns
 Secondary Filter Length..... 280mm
 Secondary Filter Width..... 182mm
 Secondary Filter Thickness..... 22mm

Impeller Information

Impeller Type..... Steel
 Impeller Size..... 5-1/4 x 8-1/4 in.

Construction

Impeller..... Steel
 Paint Type/Finish..... Powder Coated
 Body..... Steel

Other Specifications:

Country of Origin Taiwan
 Warranty 1 Year
 Approximate Assembly & Setup Time 30 Minutes
 ISO 9001 Factory Yes

Features:

- Remote Control
- Three-Stage Filtration
- Three Fan Speeds
- Hanging Mounts
- Rubber Feet for Benchtop Mount
- Primary Filter: 99.97% at 0.3 Microns (MERV-17 HEPA)
- Secondary Filter: 10 Microns
- Pre-Filter





MACHINE DATA SHEET

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

MODEL T33151 5-SPEED HEPA HANGING AIR FILTER

Product Dimensions:

Weight..... 64 lbs.
 Width (side-to-side) x Depth (front-to-back) x Height..... 20-1/2 x 27-1/2 x 20-1/2 in.
 Footprint (Length x Width)..... 27-1/2 x 20-1/2 in.

Shipping Dimensions:

Type..... Cardboard
 Content..... Machine
 Weight..... 68 lbs.
 Length x Width x Height..... 25 x 23 x 31 in.

Electrical:

Power Requirement..... 110V, Single-Phase, 60 Hz
 Full-Load Current Rating..... 2.8A
 Minimum Circuit Size..... 15A
 Connection Type..... Cord & Plug
 Power Cord Included..... Yes
 Power Cord Length..... 72 in.
 Power Cord Gauge..... 18 AWG
 Plug Included..... Yes
 Included Plug Type..... 5-15
 Switch Type..... Control Panel & Remote Control

Motors:

Main

Horsepower..... 1/3 HP
 Phase..... Single-Phase
 Amps..... 2.8A
 Speed..... 480, 560, 640, 730, 820 RPM
 Type..... Induction
 Bearings..... Sealed & Permanently Lubricated

Main Specifications:

Operation

Dust Collector Type..... Air Filter
 Approved Dust Types..... Particulate
 Filter Type..... Pleated, Panels
 Airflow Performance..... 800, 1000, 1200, 1300, 1400 CFM



Filter Information

Number of Filters..... 3
 Filtration Rating..... 0.3 Microns
 Pre-Filter Type..... Pleated Cotton
 Pre-Filter Length..... 19-3/8 in.
 Pre-Filter Width..... 15-3/8 in.
 Pre-Filter Thickness..... 3/16 in.
 Primary Filter Type..... HEPA
 Primary Filter Rating..... 99.97% at 0.3 Microns
 Primary Filter Length..... 391mm
 Primary Filter Width..... 492mm
 Primary Filter Thickness..... 27mm
 Secondary Filter Type..... Activated Carbon
 Secondary Filter Rating..... 10 Microns
 Secondary Filter Length..... 370mm
 Secondary Filter Width..... 370mm
 Secondary Filter Thickness..... 22mm

Impeller Information

Impeller Type..... Plastic
 Impeller Size..... 9-3/4 x 6-1/4 in.

Construction

Impeller..... Plastic
 Paint Type/Finish..... Powder Coated
 Body..... Steel

Other Specifications:

Country of Origin Taiwan
 Warranty 1 Year
 Approximate Assembly & Setup Time 30 Minutes
 ISO 9001 Factory Yes

Features:

Remote Control
 Three-Stage Filtration
 Five Fan Speeds
 Hanging Mounts
 Primary Filter: 99.97% at 0.3 Microns (MERV-17 HEPA)
 Secondary Filter: 10 Microns
 Pre-Filter



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.



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



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

WARNING

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.



WARNING

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 Filters

WARNING

Long-term respiratory damage can occur from using this filter to capture hazardous dust without proper use of a respirator. Collecting flammable or combustible liquids, vapors, or explosive dusts can cause fire or explosions, resulting in smoke inhalation, serious burns, or death. An improperly secured air filter can fall, causing head injuries. To reduce the risk of these hazards, operator and bystanders **MUST** completely heed hazards and warnings below.

LUNG PROTECTION. Fine dust that is too small to be caught in filter will be blown into ambient air during operation. Always wear a NIOSH-approved respirator during operation and for a short time after to reduce your risk of permanent respiratory damage.

INTENDED USE. Using this filter regularly to collect prohibited materials can result in serious health problems. It is only designed to capture dust from ambient air in a woodworking shop for a short time after cutting or sanding operations. **DO NOT** use to collect particles of silica, polyurethane, metal, lead paint, asbestos, or hazardous bacterium. **DO NOT** allow filter to collect explosive dusts, flammable or combustible liquids or fumes, burning or smoking material, or toxic fumes. **DO NOT** connect directly to air filtration system. Only operate with filters installed.

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

DUST ALLERGIES. Dust from certain woods may cause an allergic reaction in people and animals. Make sure you know what type of wood dust you will be exposed to in case of an allergic reaction.

POWER DISCONNECT. Turn switch **OFF**, disconnect air filter from power supply, and allow impeller to come to a complete stop before doing any cleaning, maintenance, or service.

OPERATING LOCATION. **DO NOT** operate the air filter in rainy or wet locations—exposure to water may create a shock hazard or decrease the life of the machine.

REGULAR CLEANING. To reduce risk of starting a fire, regularly clean surrounding area where machine is operated. Excessive fine dust buildup on overhead lights, heaters, electrical panels, or other heat sources can increase risk of fire. Regularly check/clean/change filters to avoid fine dust buildup.

EMPTYING DUST. To reduce exposure to wood dust when removing dust from filters, which may increase risk of allergic reactions or respiratory problems, always turn switch **OFF**, disconnect power, and wear a respirator and safety glasses. To reduce fire and explosion risk, empty dust away from ignition sources and into an approved container.

SUSPENDED DUST PARTICLES AND IGNITION SOURCES. To reduce risk of death or injury caused by explosions or fires, **DO NOT** operate filter in areas where these risks are high, including, but not limited to, spaces near pilot lights, open flames, or other ignition sources.

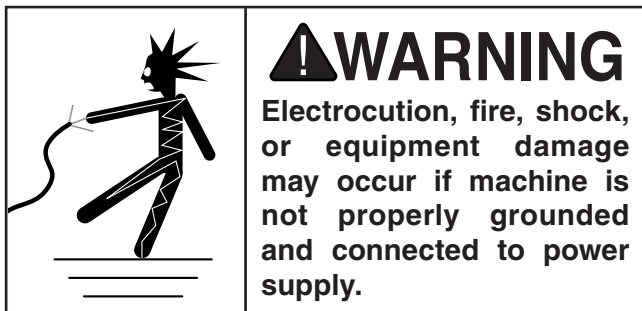
MOUNTING. To reduce risk of injuries due to filter falling, secure it to load-bearing joists or wall studs that can support its weight. Do not mount unit only to sheet rock, pressboard, paneling, or honeycomb ceiling panels with expansion-type fasteners, which can easily tear out.



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.



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.

T33150 Full-Load Current Rating..... 2 Amps
T33151 Full-Load Current Rating.... 2.8 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.

! WARNING

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.

110V 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
Cycle60 Hz
Phase Single-Phase
Power Supply Circuit 15 Amps

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.)

! CAUTION

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!

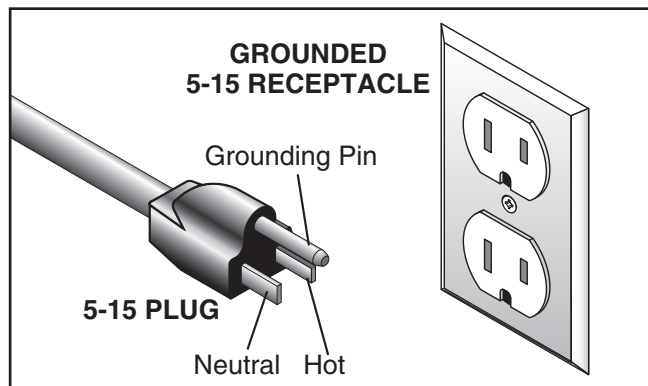


Figure 4. Typical 5-15 plug and receptacle.

⚠ CAUTION

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.

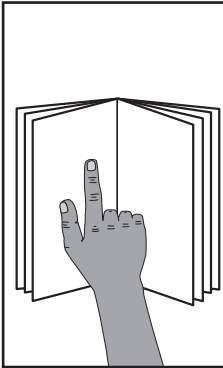
Extension cords cause voltage drop, which can damage electrical components and shorten motor life. Voltage drop increases as the extension cord size gets longer and the gauge size gets smaller (higher gauge numbers indicate smaller sizes).

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 Size 18 AWG
Maximum Length (Shorter is Better).....50 ft.

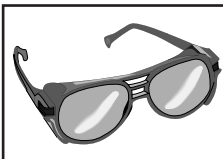


SECTION 3: SETUP



⚠️ WARNING

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



⚠️ WARNING

Wear safety glasses during the entire setup process!

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.

Description	Qty
• Additional Person	1
• Safety Glasses (for each person)	1
• Phillips Head Screwdriver #2	1
• Open-End Wrench 10mm.....	1
• Mounting Hardware	As Needed
• Ladder	1

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.

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.

T33150 Inventory

Box 1 (Figure 5)	Qty
A. Handle	1
B. Remote Control	1
C. Eye Bolts $\frac{5}{8}$ " , $\frac{1}{4}$ "-20 x $\frac{7}{8}$ "	4
D. Flange Nuts $\frac{1}{4}$ "-20.....	4
E. Rubber Feet M6-1 x 20	4
F. Phillips Head Screws $\frac{1}{4}$ "-20 x $\frac{5}{8}$ "	2

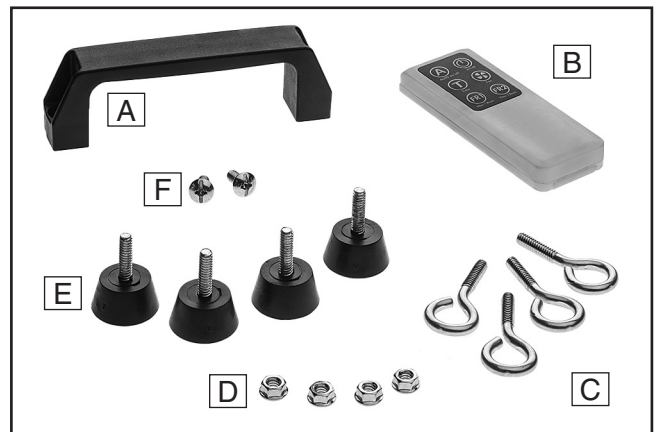


Figure 5. T33150 inventory.



T33151 Inventory

Box 1 (Figure 6)	Qty
A. Eye Bolts $\frac{5}{8}$ " , $\frac{1}{4}$ "-20 x $\frac{7}{8}$ "	4
B. Remote Control	1
C. Flange Nuts $\frac{1}{4}$ "-20.....	4

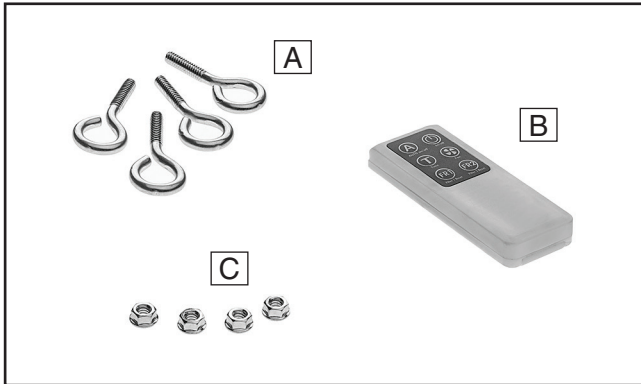


Figure 6. T33151 inventory.

T33150 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 assemble machine:

1. Install handle using (2) $\frac{1}{4}$ "-20 x $\frac{5}{8}$ " Phillips head screws (see **Figure 7**).

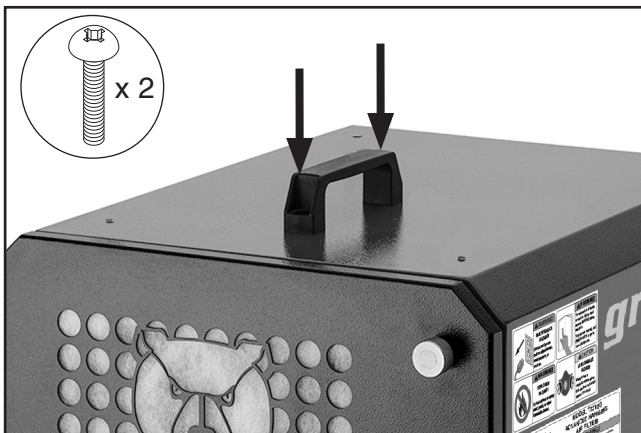


Figure 7. Handle installed.

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.

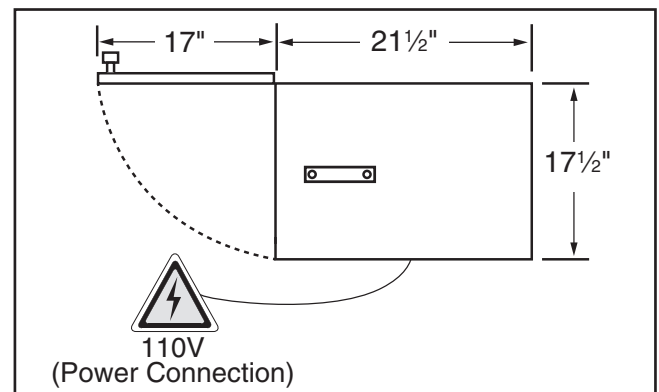


Figure 8. T33150 minimum working clearances.

	<p>⚠ CAUTION</p> <p>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.</p>
--	--



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) remote control functions correctly
3) varying fan speeds function correctly.

⚠ 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.

⚠ WARNING

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.

To test run machine:

1. Clear all setup tools away from machine.
2. Place machine on stable surface such as a workbench able to support it.
3. Connect machine to power supply.
4. Press **on/off** button on control panel (see **Figure 9**) to turn machine **ON**. Motor should run smoothly without unusual problems or noises. Press **on/off** button on control panel to turn machine **OFF**.

Note: Control panel on/off button is only control feature on panel. All other symbols are indicator lights that will illuminate when corresponding remote buttons are pressed (see **Figure 9**).



Figure 9. Location of on/off button on control panel.

5. Press **on/off** button on remote control (see **Figure 10**) to turn machine **ON**.
6. Cycle machine through all fan speeds by pressing Fan button on remote (see **Figure 10**).
7. Cycle machine through all time settings by pressing Time button on remote (see **Figure 10**).

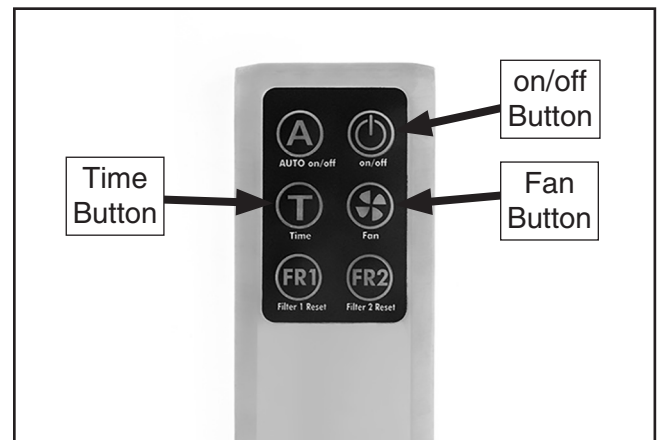


Figure 10. Remote control buttons.

8. Turn machine **OFF** using on/off button on remote.

Congratulations! Test run is complete.



Site Planning

Site planning is an important step to maximize the effectiveness of the hanging air filter. Air circulation must be thought out and all obstructions to the air path considered.

Think of air circulation in terms of the circular motion of the air before and after the air filter. The air exiting the filter moves at a higher velocity than the air entering it. Consequently, exhaust being vented inside a building can have an effect on the pattern of air circulation.

Air circulation patterns will vary depending upon which air flow speed is used and according to your specific shop setup. **Figure 11** shows an example of good air circulation.

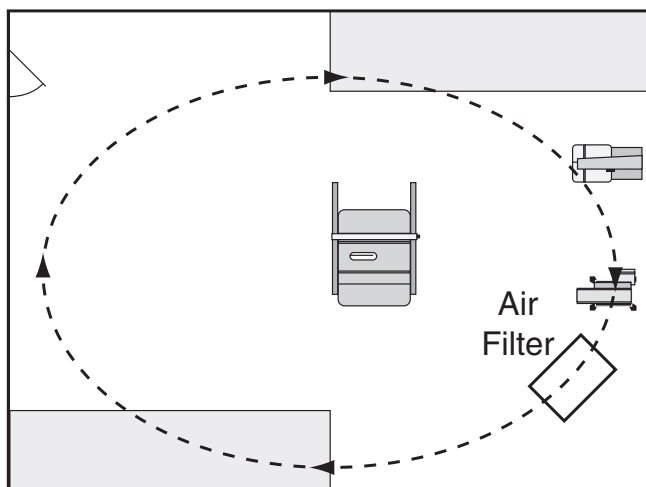


Figure 11. Good circulation. Air filter placement promotes circular air motion.

Figure 12 shows an example of poor air circulation, where the air filter is placed too close to obstructions. In this situation, the velocity of the air is lost and circulation is diminished.

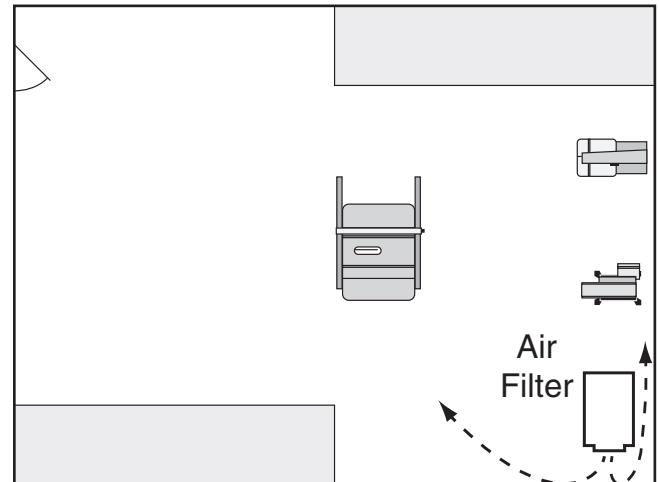


Figure 12. Poor air circulation. Air filter is placed too close to the wall so air circulation short cycles, leaving much of the room unfiltered.

Below is a list of things to keep in mind when selecting a spot for the air filter:

- Study your shop layout and try to determine the best location for the hanging air filter. Air flow that is obstructed will cause a short cycle effect, producing unsatisfactory results. There must be a clearance of at least 3 feet from any obstructions in front and back of the unit.
- Try to place the air filter in front of high dust producers like sanders or near areas where sanding will take place.
- Do not place the hanging air filter where garage doors may pass closely or where it may impede transport or movement of any other object.
- Try to place the unit where it is easy to access for turning it on, cleaning and maintenance.



Installing Air Filter

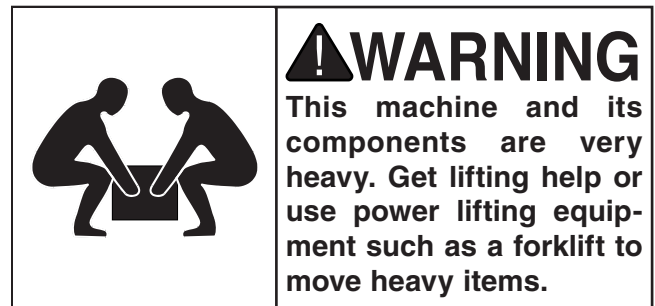
The Models T33150 and T33151 can both be hung from the ceiling with the included eye bolts. However, the T33150 also includes rubber feet, so the machine can be placed on a bench or table for easy access.

If hanging the air filter from the ceiling, it is very important that the machine be supported properly. Please follow these guidelines when planning where to mount the air filter.

- The air filter can only be hung from the eye bolts that screw into the top of the machine.
- Make sure that an electrical outlet with a properly grounded receptacle is available at the location you choose.
- The hanging air filter must be supported by wood joists. These joists should be capable of supporting at least 100 lbs each. **DO NOT** attach the hanging air filter to only sheet rock, press board or paneling. These materials cannot support the filter, and it may fall.
- Avoid hitting your head on the hanging air filter. Make sure there is enough clearance between the unit and the ground, especially important in a basement. If possible, position the air filter in an area that has little foot traffic but still offers easy access to the control panel and filters.

Workbench Installation (T33150)

The air filter can be used as a portable air filtration system by installing the rubber feet and placing the unit on a workbench or a table.



To install machine on workbench:

1. With help from an assistant, carefully flip air filter on its side.
2. Thread (4) rubber feet into holes on bottom of machine (see **Figure 13**).

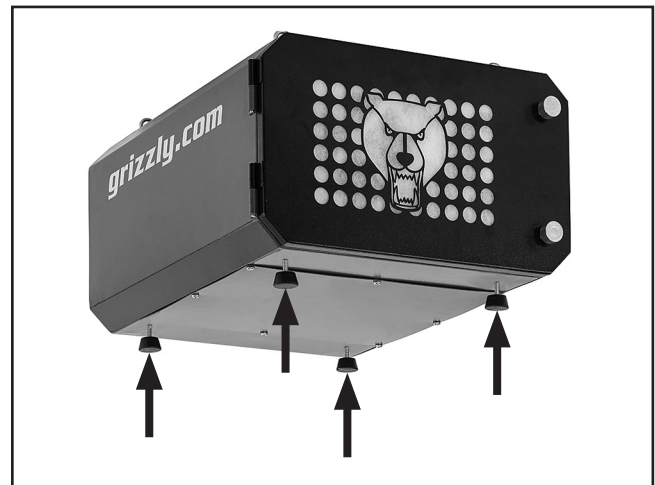


Figure 13. Rubber feet installed.

3. Place machine on workbench in location that conforms to recommendations under **Site Planning** on **Page 18**.



Hanging Installation

The air filter can be hung from the ceiling using four equal lengths of chain, cable, or steel strapping rated for the weight of the machine. For safe clearance beneath the machine, the air filter should hang no less than 7' from the floor.

Items Needed	Qty
Chain, Cable, or Steel Strapping	4 Lengths
Ceiling Hooks	4
Open-End Wrench 10mm.....	1

WARNING

ONLY mount the air filter unit to joists or table that can hold at least 100 lbs. **DO NOT** mount the unit only to sheet rock, pressboard, paneling, or honeycomb wall panels with expansion-type fasteners. The fasteners can tear out and the air filter can fall. Ignoring this caution can result in injury or property damage.



To hang machine from ceiling:

1. Drill pilot hole for each ceiling hook in center of joist at mounting location so these will align with machine eye bolts.

Note: *If ceiling joists are covered with sheet rock or paneling, use a stud finder or other device to locate joist centers.*

2. Fully thread ceiling hooks into joists and install (4) lengths of chain, cable, or steel strapping from ceiling.
3. Thread (1) flange nut onto eye bolt, as shown in **Figure 14**.
4. Thread eye bolt into top of machine, and tighten flange nut against top to secure (see **Figure 14**).

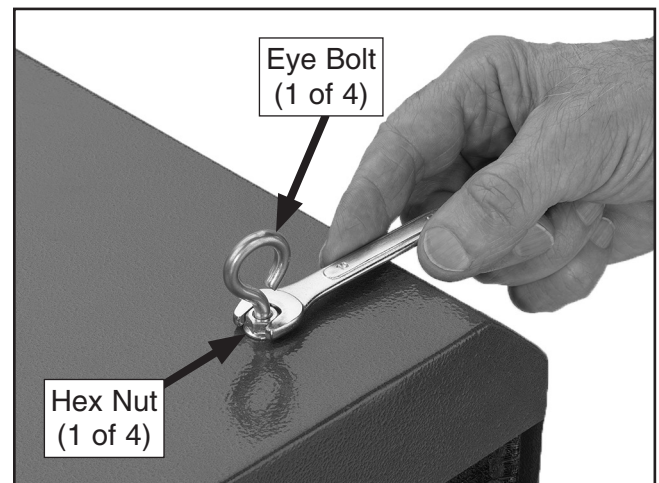


Figure 14. Installing/adjusting eye bolt.



!WARNING

ALWAYS have at least 1/2" of the eye bolts threaded into air filter housing to ensure they will securely hold air filter. Improper hanging installation can cause air filter to fall and cause damage. Being struck by falling air filter can cause serious injury or death.

5. Repeat **Steps 3–4** for remaining (3) eye bolts (see **Figure 15**).

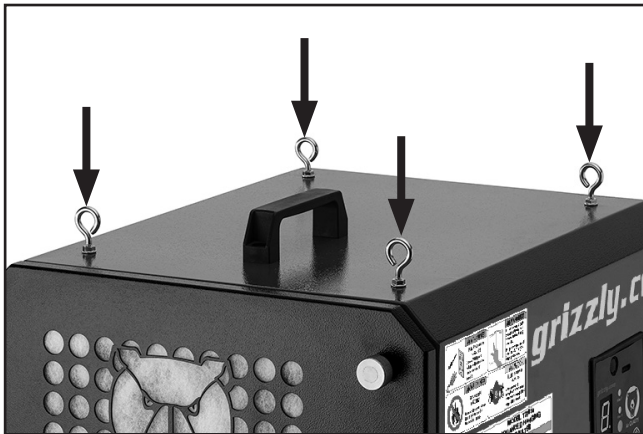


Figure 15. Eye bolts installed.

!WARNING



This machine and its components are very heavy. Get lifting help or use power lifting equipment such as a forklift to move heavy items.

6. With help from an assistant, raise air filter and attach (4) eye bolts to hanging lines (see **Figure 16**).

Note: Some positions for the ceiling hooks may be slightly uneven from each other. To make up for this, minor adjustments can be made to the length of the hanging assembly by adjusting the eye bolts threaded into the air filter housing.

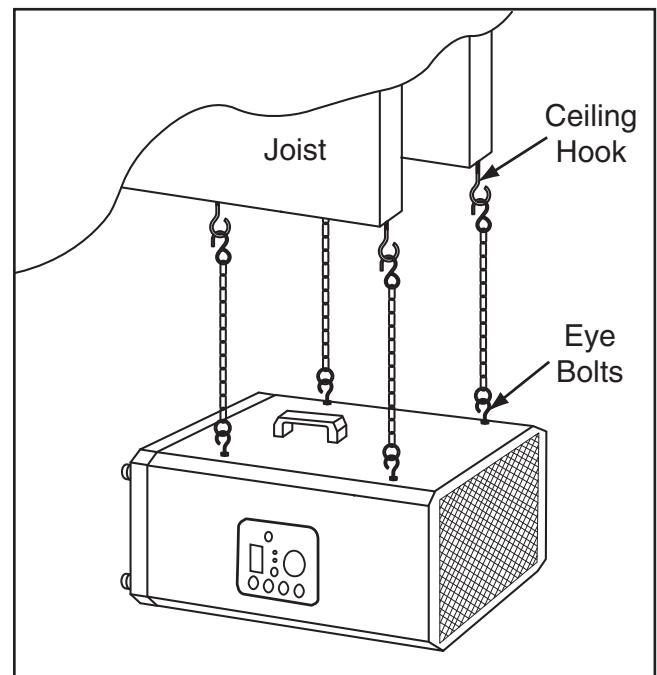


Figure 16. Air filter mounted to joists.





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.

	<p>!WARNING To reduce your risk of serious injury, read this entire manual BEFORE using machine.</p>
--	--

<p>!WARNING To reduce risk of eye injury from flying chips or lung damage from breathing dust, always wear safety glasses and a respirator when operating this machine.</p>	
	

<p>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.</p>
--

General

Turning ON & OFF

When the air filter is connected to power, press the on/off button on the air filter control panel or the remote control to turn the unit **ON**.

Note: Remote control communicates with air filter using infrared (IR) and must be pointed at and in direct line of sight of air filter control panel to work properly.

Changing Air Flow Speeds

The air filters can be set to operate in varying air flow speeds measured in cubic feet per minute (CFM):

- **T33150 Speed Settings:** 1 (400 CFM), 2 (500 CFM), and 3 (620 CFM).
- **T33151 Speed Settings:** 1 (800 CFM), 2 (1000 CFM), 3 (1200 CFM), 4 (1300 CFM), and 5 (1400 CFM).

To cycle through the available speeds, press the Fan button on the remote control repeatedly. This will illuminate the fan speed indicator and display the setting number on the digital readout.

Setting Timer

The timer can be set to run the filters for 2, 4, 6, or 8 hours. After this, they will automatically turn **OFF**.

To cycle through the available time settings, press the Time button on the remote control repeatedly. This will illuminate the time indicator and display the setting number in the digital readout.

<p>!WARNING This air filter is NOT intended for filtration of toxic fumes. If toxic fumes are present, other precautions must be taken to ensure safety. Otherwise, exposure to toxic fumes can cause severe health problems.</p>



Filtering Performance

When used in conjunction with an efficient dust collection system, the Model T33150 and T33151 remove most fine wood particles up to 0.3 microns from the air. The air filters are capable of recirculating the air in a room measuring 25' x 25' x 8' approximately the following number of times per hour:

- **T33150:** 7.5 times at 620 CFM.
- **T33151:** 16.8 times at 1400 CFM.

We recommend that the volume of air in your room be recirculated 6–8 times per hour for the best filtering effect.

Therefore, rooms with a larger volume may require two or more air filters to achieve proper filtering.

To calculate the recirculating rate for your shop space:

1. Calculate the volume of air in your shop by multiplying the length x width x height of the room (see the example below). Then, divide the volume by the speed (CFM) you have chosen to operate the air filter. This will give you how many minutes it takes to recirculate the air in the room.

Example: *The room measures 25' x 25' x 8' and you are operating the air filter at 1290 CFM (HI).*

$$\frac{25' \times 25' \times 8'}{1290 \text{ CFM}} = \frac{5000 \text{ ft}^3}{1290 \text{ CFM}} = 3.88 \text{ Minutes}$$

2. Calculate how many times per hour the room volume is recirculated through the air filter by dividing 60 minutes by the circulating time from **Step 1**. This will give you how many times an hour the air in the room is recirculated through the air filter.

$$\frac{60 \text{ Min.}}{3.88 \text{ Min.}} = 15.46 \text{ Times per Hour}$$



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.

T33232—Replacement Remote Control for T33150 and T33151

This infrared controller serves as a replacement for the Model T33150 and T33151 remote control.



Figure 17. T33232 Replacement Remote Control.

Replacement Filters for T33150

T33225—Pre-Filter

T33226—Primary Filter, HEPA

T33227—Secondary Filter, Activated Carbon

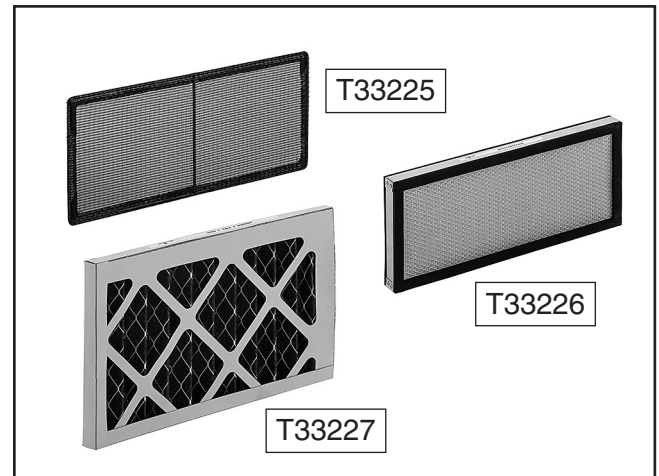


Figure 18. Replacement filters for Model T33150.

Replacement Filters for T33151

T33229—Pre-Filter

T33230—Primary Filter, HEPA

T33231—Secondary Filter, Activated Carbon

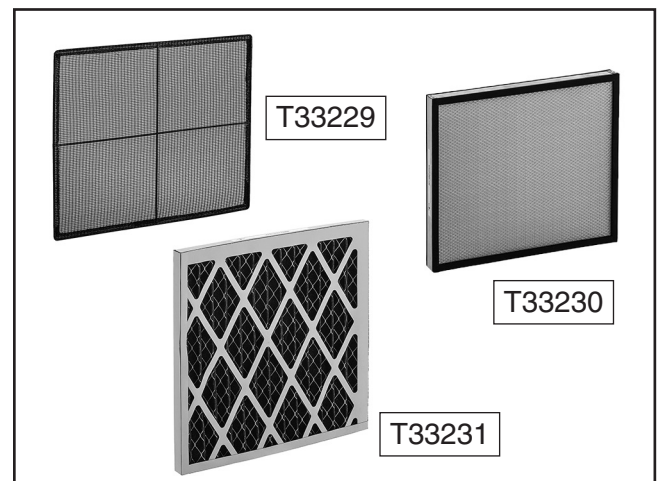


Figure 19. Replacement filters for Model T33151.

order online at www.grizzly.com or call 1-800-523-4777



T33228—4" Intake Port Reducer for T33150

Use this adapter to convert the Model T33150 intake to be compatible with receiving a 4" hose. Only available for the Model T33150.



Figure 20. T33228 4" Intake Port Reducer.

T28170—Heavy-Duty Shop Stand

This durable stand measures 28" x 20" and can be adjusted from 31" to 39" in height. Legs made from 14 gauge steel, cross members made from 16 gauge steel.



Figure 21. T28170 Heavy-Duty Shop Stand.

G1028Z2—1½ HP Portable Dust Collector

Designed to capture dust and wood chips from woodworking machines, such as table saws, jointers, and planers.



Figure 22. G1028Z2 1½ HP Portable Dust Collector.

T26526—R3 Safety - N95 Dust Mask, Box of 10

Protects against airborne contaminants and allows for easy breathability. Cool FlowValve reduces heat, moisture, and fogging. M-shaped nose clip provides a comfortable fit. No-tangle straps for ease of use.

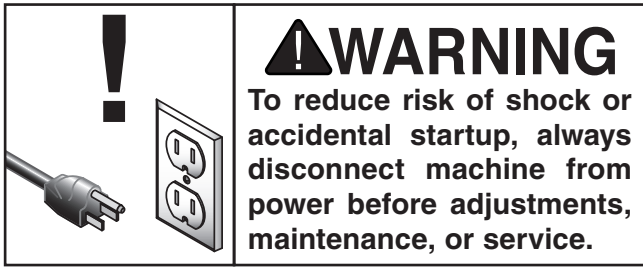


Figure 23. T26526 N95 Dust Mask, Box of 10.

order online at www.grizzly.com or call 1-800-523-4777



SECTION 6: MAINTENANCE



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 items below, and fix the problem before continuing operations:

- Loose or damaged mounting hardware.
- Dirty or clogged filters.
- Worn or damaged wires.
- Any other unsafe condition.

Cleaning/Replacing Filters

The volume of air filtered has a direct correlation to when you must clean or replace the filters.

To maintain efficient operation, check the filters approximately every 40 hours of use in light or moderately dusty environments. In very dusty environments, check the filters every eight hours of use. Always wear a respirator when checking the filters.

Items Needed	Qty
Vacuum	1
Gloves	1 Pair
Dust Mask/Respirator.....	1
Safety Goggles.....	1 Pair
Flat Head Screwdriver.....	1

After 300 hours of run time, the Filter 1 light will turn red to indicate that the HEPA filter needs to be replaced. After 600 hours of run time, the Filter 2 light will turn red to indicate that the activated carbon filter needs to be cleaned/replaced. The lights are blue when the filters are in normal state.

To clean and replace filters:

1. DISCONNECT MACHINE FROM POWER!
2. Remove pre-filter from intake side of machine (see **Figure 24**).

Tip: Use flat head screwdriver to gently pry bottom of filter up to remove it, being careful not to damage filter.

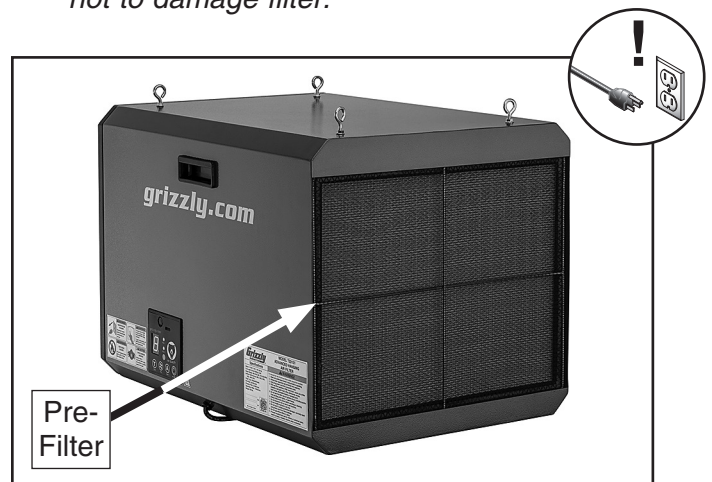


Figure 24. Location of pre-filter.



3. Gently vacuum pre-filter to remove dust buildup.
4. Remove primary filter from intake side of machine (see **Figure 25**).

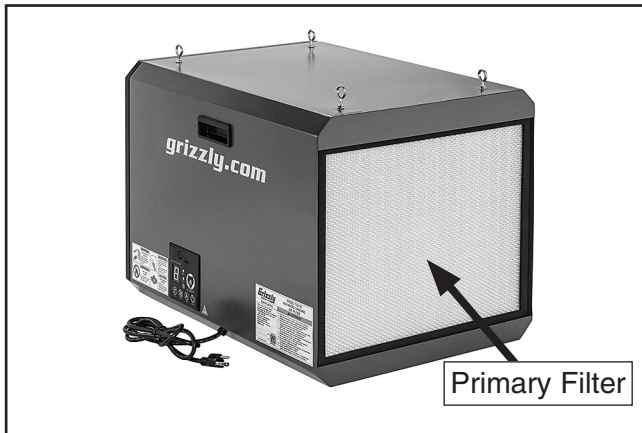


Figure 25. Location of primary filter.

NOTICE

DO NOT use compressed air to blow out filters in the following steps. This can cause damage to the filters.

5. Gently vacuum primary filter to remove dust buildup, being careful not to damage filter.
6. Unscrew lock knobs on exhaust side of machine to open filter access door and remove secondary filter (see **Figure 26**).

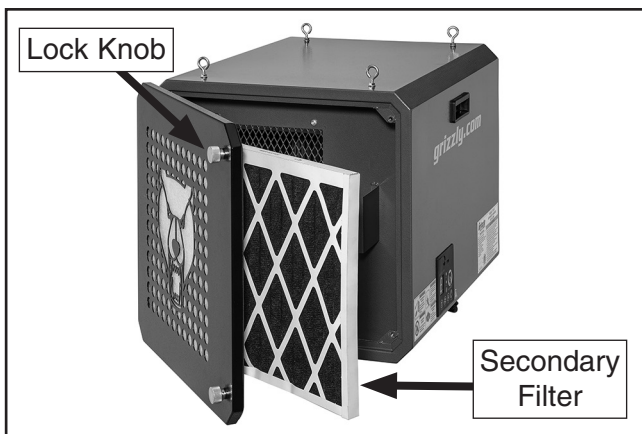


Figure 26. Location of secondary filter on T33150.

7. Gently vacuum secondary filter to remove dust buildup, being careful not to damage filter.
8. Visually inspect all filters to see if they need to be replaced.

Note: During regular use, filters can be cleaned several times before replacement becomes necessary.

9. Re-install or replace air filters, paying attention to airflow direction indicated on filters.

Replacing Remote Control Batteries

The remote control uses two AAA batteries. To replace them, slide the battery compartment cover down and off the remote (see **Figure 27**). Insert new batteries in the proper direction and replace the cover.

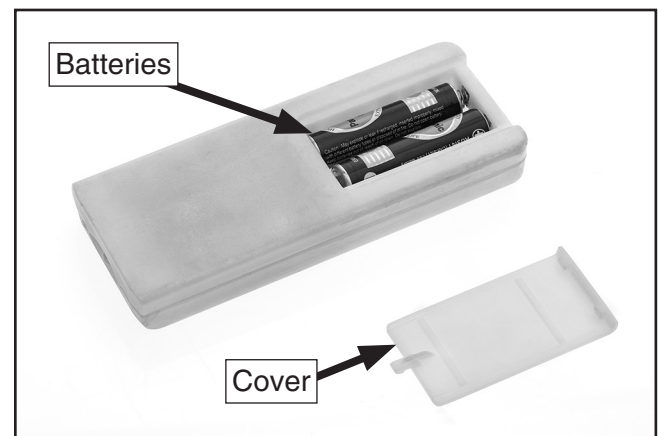


Figure 27. Remote control battery compartment cover removed.

Machine Storage

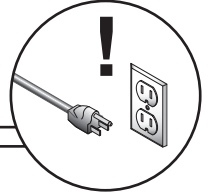
When the air filter is not in use, unplug the power cord from the power source. Secure the power cord away from potential hazards, such as high traffic areas, sharp objects, heat sources, harsh chemicals or fumes, damp areas, etc.



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 not start, or power supply breaker immediately trips after startup.	<ol style="list-style-type: none"> 1. Incorrect power supply voltage or circuit size. 2. Remote control not working or batteries are dead. 3. Infrared transmission is blocked or remote too far away. 4. Power supply circuit breaker tripped or fuse blown. 5. Wiring broken, disconnected, or corroded. 6. Infrared receiver at fault. 7. Control panel/remote ON/OFF button at fault. 8. Circuit board at fault. 9. Motor or motor bearings at fault. 	<ol style="list-style-type: none"> 1. Ensure correct power supply voltage and circuit size. 2. Replace batteries (Page 27); point remote directly at control panel. If broken or damaged, replace remote. 3. Make sure infrared receiver on control panel is not blocked; use remote closer to filter. 4. Ensure circuit is free of shorts. Reset circuit breaker or replace fuse. 5. Fix broken wires or disconnected/corroded connections. 6. Inspect/replace if faulty. 7. Replace control panel/remote. 8. Inspect/replace if at fault. 9. Test/repair/replace.
Machine stalls or is underpowered.	<ol style="list-style-type: none"> 1. Motor overheated. 2. Run capacitor at fault. 3. Extension cord too long. 4. Motor or motor bearings at fault. 	<ol style="list-style-type: none"> 1. Clean motor, let cool, and reduce workload. 2. Test/repair/replace. 3. Move machine closer to power supply; use shorter extension cord. 4. Replace motor.
Machine has vibration or noisy operation.	<ol style="list-style-type: none"> 1. Motor or component loose. 2. Motor mount loose/broken. 3. Motor fan rubbing on fan cover. 4. Motor or motor bearings at fault. 	<ol style="list-style-type: none"> 1. Replace damaged or missing bolts/nuts or tighten if loose. 2. Tighten/replace. 3. Fix/replace fan cover; replace loose/damaged fan. 4. Test by rotating shaft; rotational grinding/loose shaft requires bearing replacement.

Air Filter Operations

Symptom	Possible Cause	Possible Solution
Loud, repetitious noise, or excessive vibration coming from air filter.	<ol style="list-style-type: none"> 1. Air filter is not mounted properly and wobbles. 2. Impeller fan is damaged, loose, or unbalanced. 3. Motor mounting loose. 4. Motor fan housing is dented, causing motor fan blade to hit housing. 	<ol style="list-style-type: none"> 1. Stabilize air filter (Page 19). 2. Unplug air filter, inspect impeller for dents, bends. Replace impeller if any damage is found. 3. Make sure all fasteners on motor mount are tight. 4. Replace motor fan housing.
Filter does not adequately collect dust; poor performance.	<ol style="list-style-type: none"> 1. Filters are dirty/clogged. 2. Air filter not positioned properly. 	<ol style="list-style-type: none"> 1. Clean filters; replace with new filters if performance does not improve (Page 26). 2. Locate filter in area with good air circulation and away from any obstructions (Page 18).



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 after-market 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.













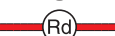

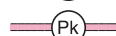
CAPACITORS/INVERTERS. Some capacitors and power inverters store an electrical charge for up to 10 minutes after being disconnected from the power source. To reduce the risk of being shocked, wait at least this long before working on capacitors.

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

NOTICE

The photos and diagrams included in this section are best viewed in color. You can view these pages in color at www.grizzly.com.

COLOR KEY

BLACK		BLUE		YELLOW		LIGHT BLUE	
WHITE		BROWN		YELLOW GREEN		BLUE WHITE	
GREEN		GRAY		PURPLE		TURQUOISE	
RED		ORANGE		PINK			



T33150 Wiring Diagram

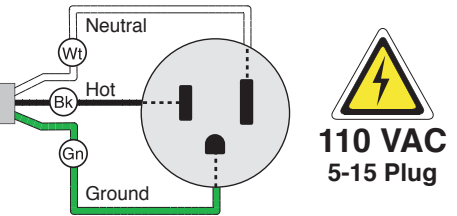
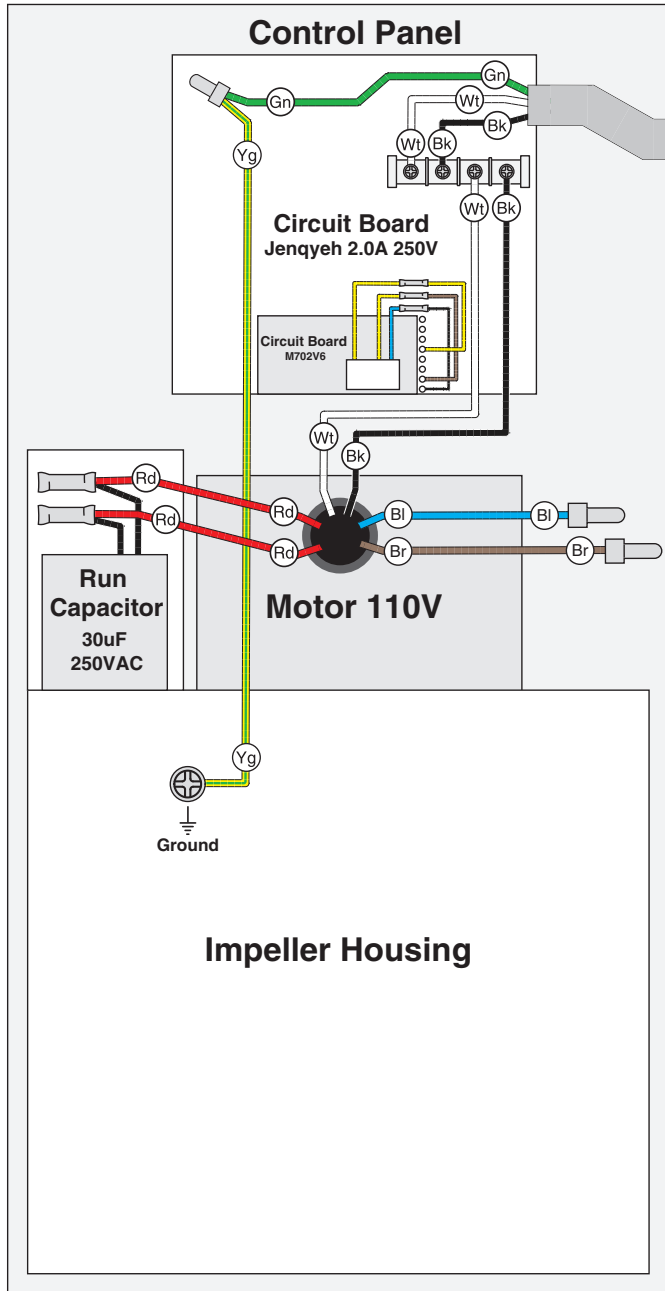
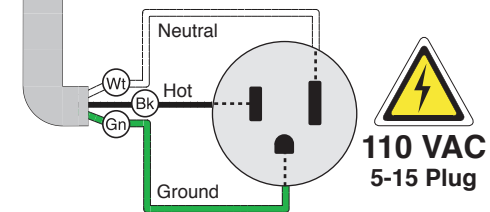
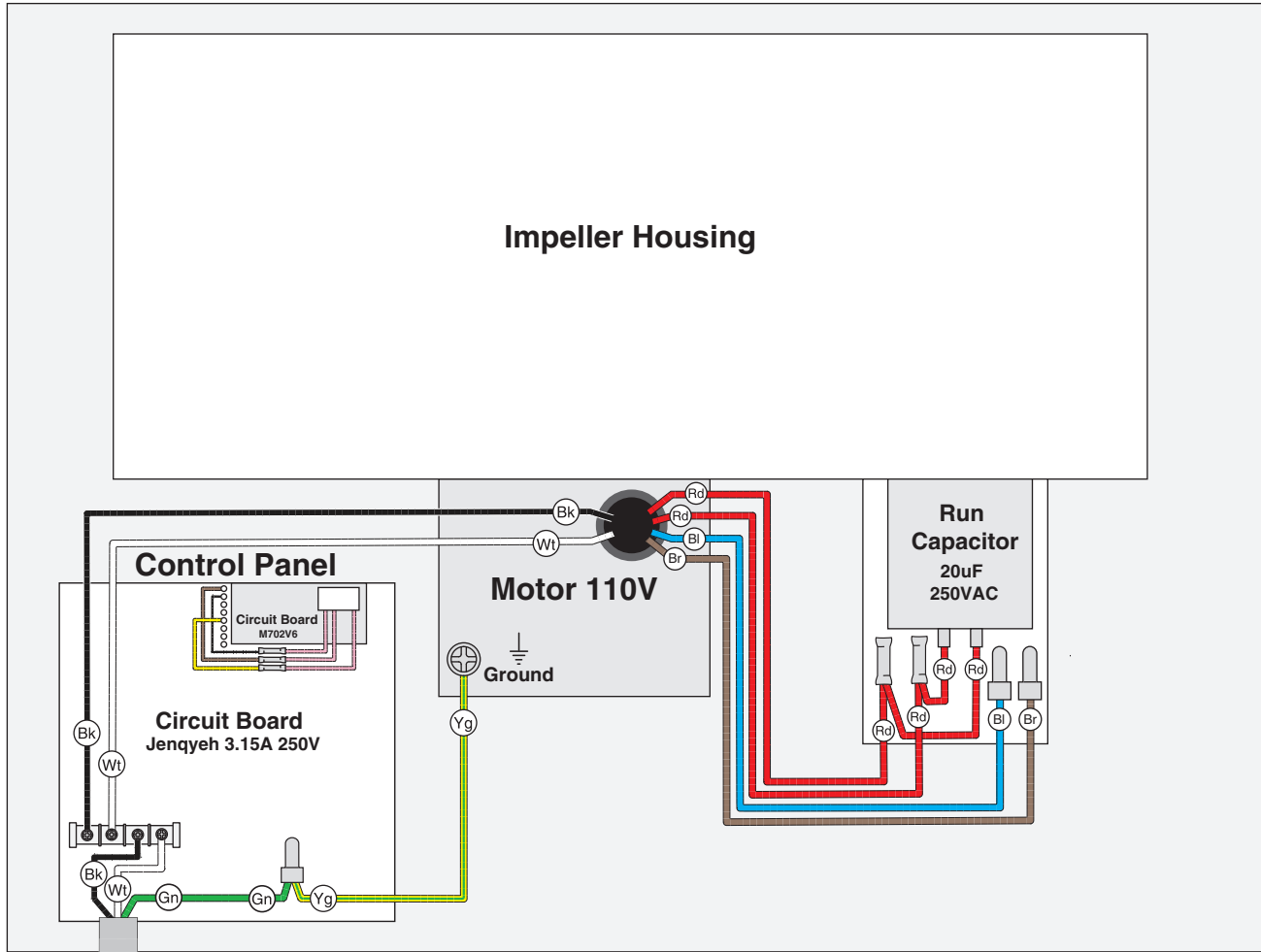



Figure 28. Motor and circuit board wiring.



T33151 Wiring Diagram





⚠️ WARNING!
SHOCK HAZARD!
 Disconnect power before working on wiring.



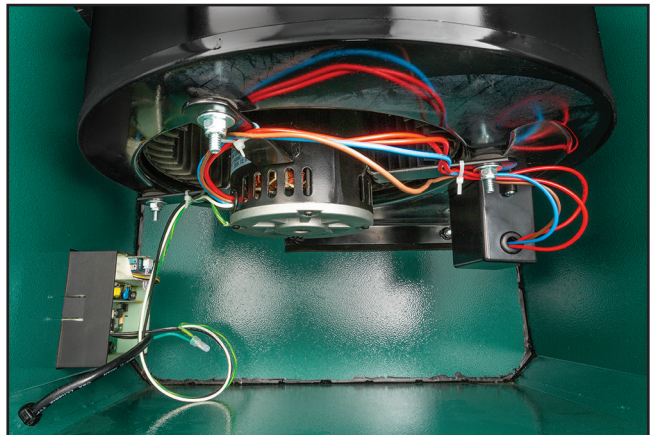


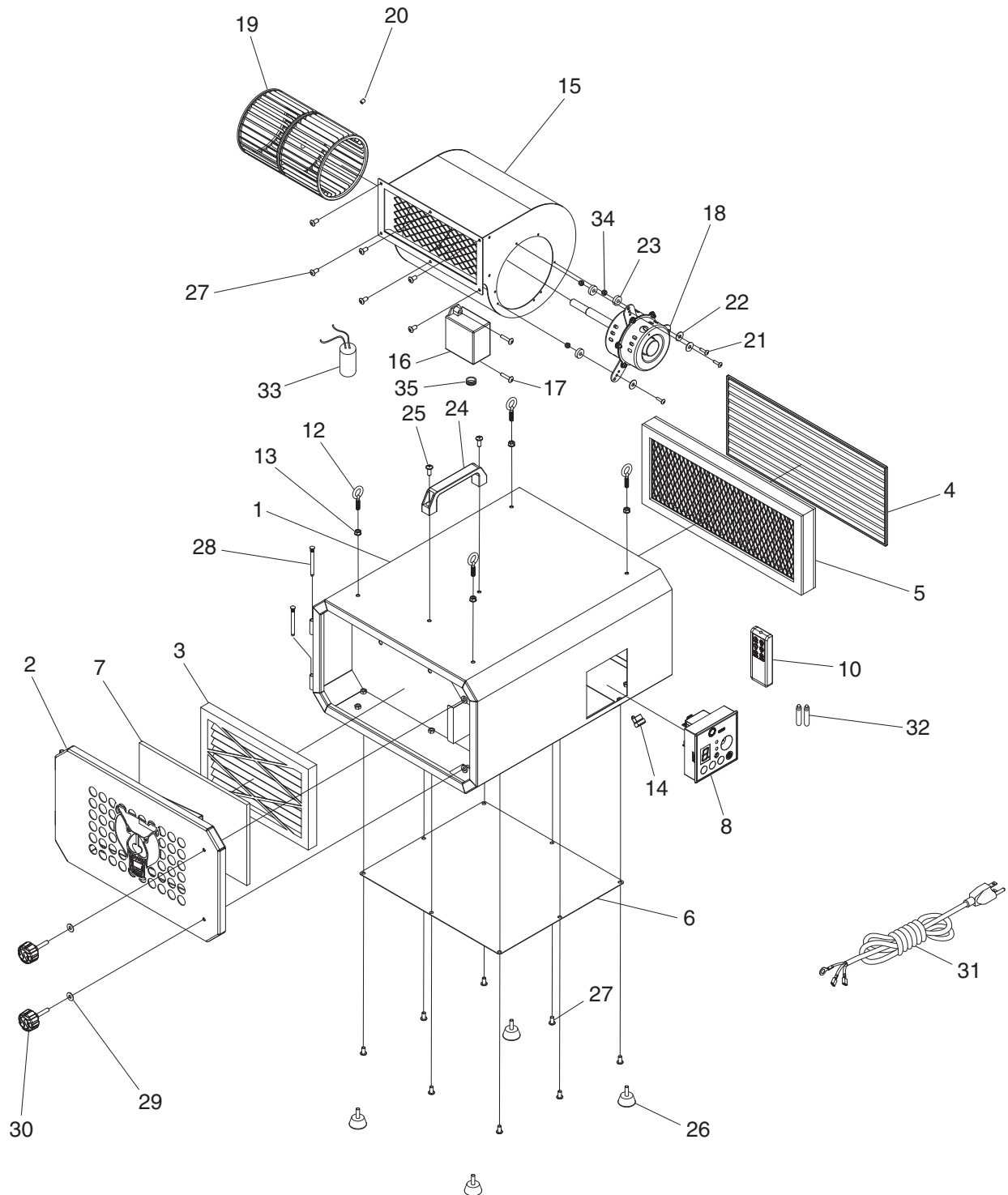
Figure 29. Motor and circuit board wiring.



SECTION 9: PARTS

We do our best to stock replacement parts when possible, but we cannot guarantee that all parts shown are available for purchase. Call (800) 523-4777 or visit www.grizzly.com/parts to check for availability.

T33150 Main



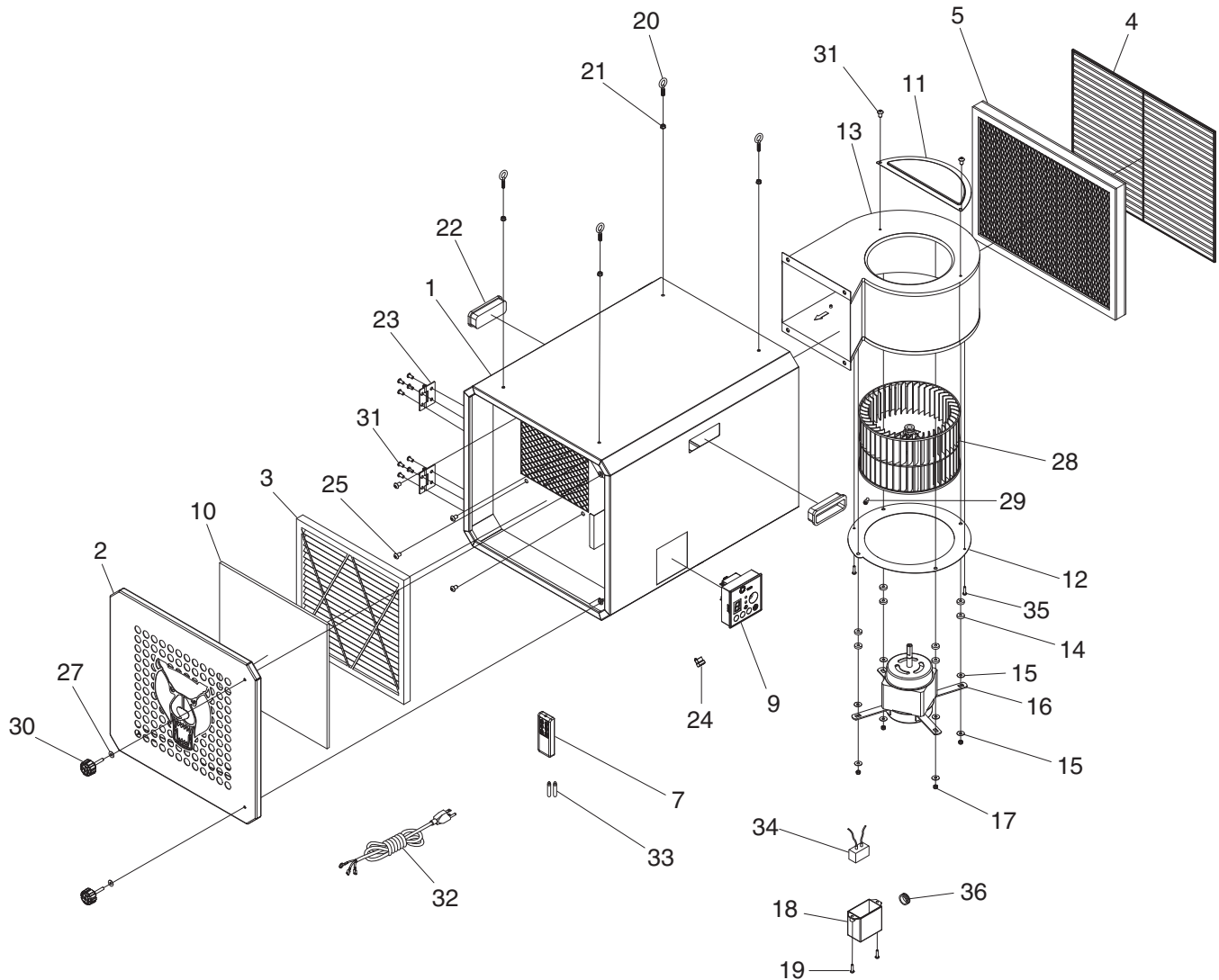
T33150 Parts List

REF	PART #	DESCRIPTION
1	PT33150001	BODY
2	PT33150002	DOOR
3	PT33150003	SECONDARY FILTER, ACTIVATED CARBON
4	PT33150004	PRE-FILTER
5	PT33150005	PRIMARY FILTER, HEPA
6	PT33150006	COVER
7	PT33150007	MESH SCREEN
8	PT33150008	CONTROL PANEL
10	PT33150010	REMOTE CONTROL
12	PT33150012	EYE BOLT 1/4-20 X 7/8
13	PT33150013	FLANGE NUT 1/4-20
14	PT33150014	WIRE CLIP
15	PT33150015	IMPELLER HOUSING
16	PT33150016	CAPACITOR COVER
17	PT33150017	PHLP HD SCR M5-.8 X 25
18	PT33150018	MOTOR 1/6HP 110V 1-PH
19	PT33150019	STEEL IMPELLER

REF	PART #	DESCRIPTION
20	PT33150020	SET SCREW M6-1 X 8
21	PT33150021	PHLP HD SCR M4-.7 X 16
22	PT33150022	FLAT WASHER 4MM
23	PT33150023	MOTOR MOUNT (RUBBER)
24	PT33150024	HANDLE
25	PT33150025	PHLP HD SCR 1/4-20 X 5/8
26	PT33150026	RUBBER FOOT M6-1 X 20, 32
27	PT33150027	BUTTON HD CAP SCR 1/4-20 X 1/2
28	PT33150028	HINGE PIN
29	PT33150029	FLAT WASHER 1/4
30	PT33150030	KNOB BOLT 1/4-20 X 1-1/2, D1, ROUND KD
31	PT33150031	POWER CORD 18G 3W 72" 5-15P
32	PT33150032	AAA BATTERY
33	PT33150033	R CAPACITOR 30M 250V 1" X 2"
34	PT33150034	LOCK NUT M4-.7
35	PT33150035	GROMMET 10 X 19 X 4MM



T33151 Main



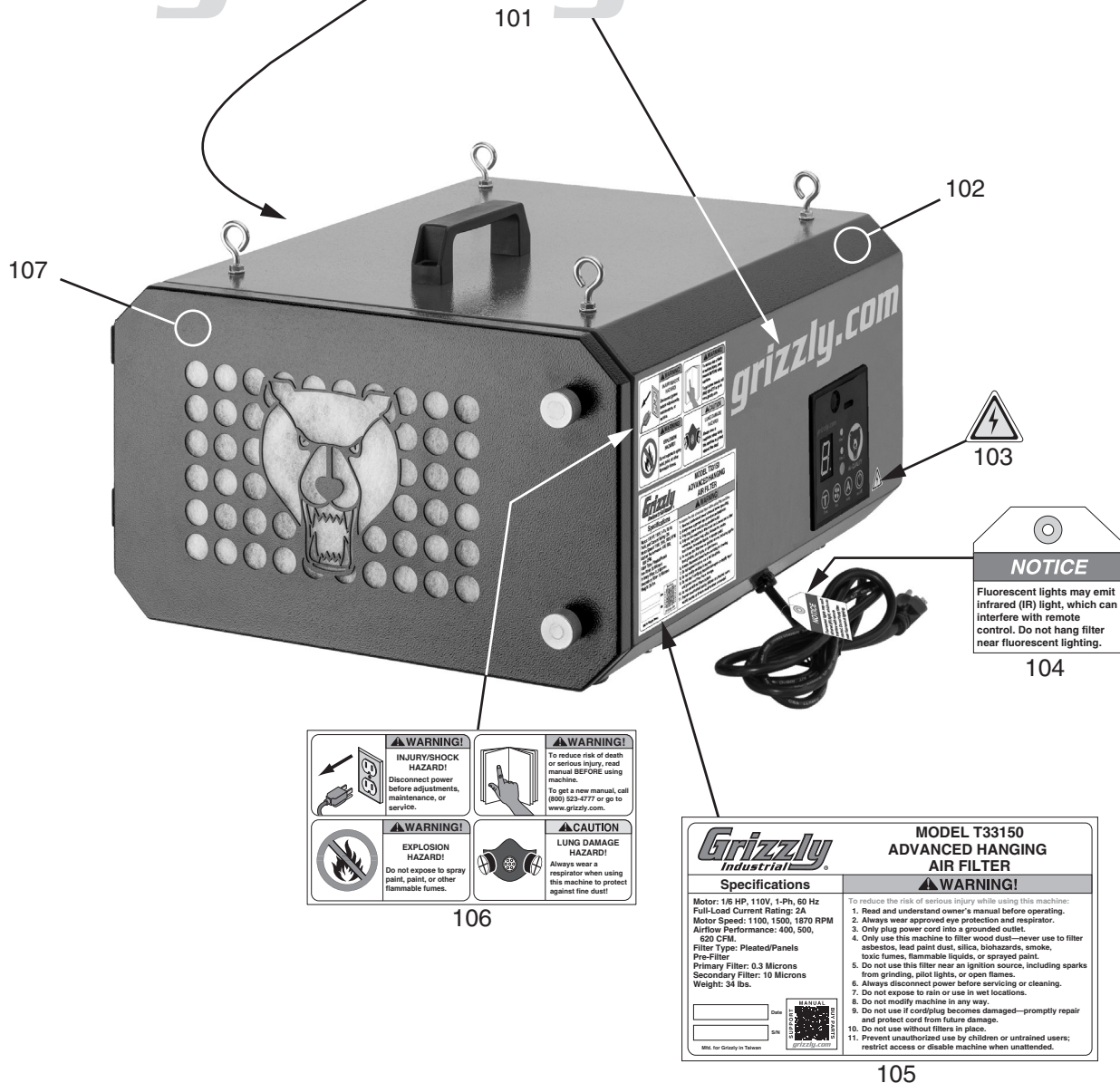
REF PART #	DESCRIPTION
1	PT33151001 BODY
2	PT33151002 DOOR
3	PT33151003 SECONDARY FILTER, ACTIVATED CARBON
4	PT33151004 PRE-FILTER
5	PT33151005 PRIMARY FILTER, HEPA
7	PT33151007 REMOTE CONTROL
9	PT33151009 CONTROL PANEL
10	PT33151010 MESH SCREEN
11	PT33151011 IMPELLER HOUSING COVER, UPPER
12	PT33151012 IMPELLER HOUSING COVER, LOWER
13	PT33151013 IMPELLER HOUSING
14	PT33151014 MOTOR MOUNT (RUBBER)
15	PT33151015 FLAT WASHER 1/4
16	PT33151016 MOTOR 1/3HP 110V 1PH
17	PT33151017 LOCK NUT 1/4-20
18	PT33151018 CAPACITOR COVER
19	PT33151019 PHLP HD SCR 3/16-24 X 3/4

REF PART #	DESCRIPTION
20	PT33151020 EYE BOLT 1/4-20 X 7/8
21	PT33151021 FLANGE NUT 1/4-20
22	PT33151022 HANDLE
23	PT33151023 HINGE
24	PT33151024 WIRE CLIP
25	PT33151025 BUTTON HD CAP SCR 5/16-18 X 1/2
27	PT33151027 FLAT WASHER 1/4
28	PT33151028 PLASTIC IMPELLER
29	PT33151029 CAP SCR 1/4-20 X 1/2
30	PT33151030 KNOB BOLT 1/4-20 X 1-1/2, D1, ROUND KD
31	PT33151031 BUTTON HD CAP SCR 1/4-20 X 1/2
32	PT33151032 POWER CORD 18G 3W 72" 5-15P
33	PT33151033 AAA BATTERY
34	PT33151034 R CAPACITOR 20M 250VAC 3/4" X 1-1/2" X 2"
35	PT33151035 PHLP HD SCR 10-24 X 3/8
36	PT33151036 GROMMET 10 X 19 X 4MM



T33150 Labels & Cosmetics

grizzly.com



REF	PART #	DESCRIPTION
101	PT33150101	GRIZZLY.COM LABEL
102	PT33150102	TOUCH-UP PAINT, GRIZZLY GREEN
103	PT33150103	ELECTRICITY LABEL
104	PT33150104	FLUORESCENT BULB NOTICE TAG

REF	PART #	DESCRIPTION
105	PT33150105	MACHINE ID LABEL
106	PT33150106	COMBO LABEL
107	PT33150107	TOUCH-UP PAINT, GRIZZLY BLACK

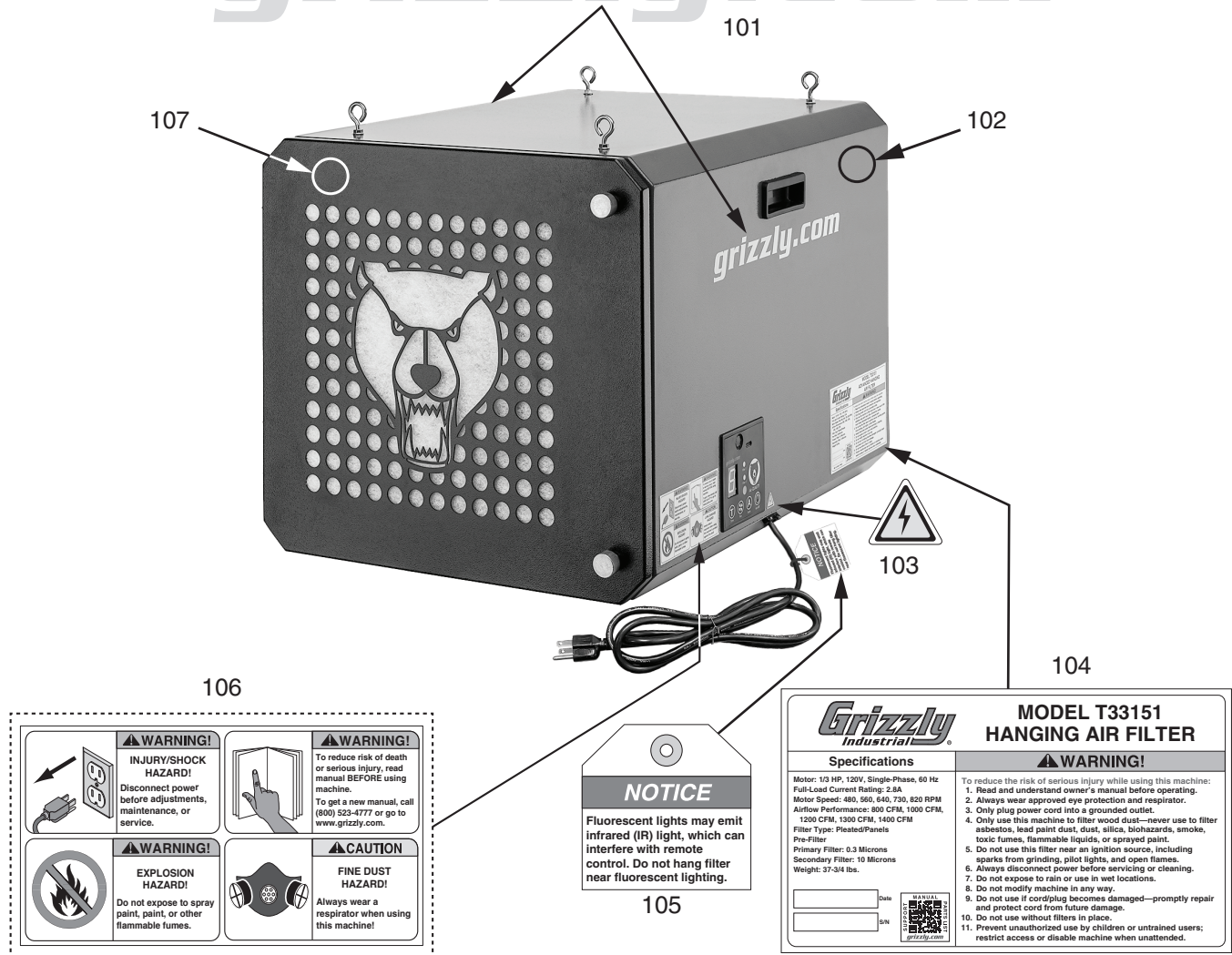
! WARNING

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.



T33151 Labels & Cosmetics

grizzly.com



REF	PART #	DESCRIPTION
101	PT33151101	GRIZZLY.COM LABEL
102	PT33151102	TOUCH-UP PAINT, GRIZZLY GREEN
103	PT33151103	ELECTRICITY LABEL
104	PT33151104	MACHINE ID LABEL

REF	PART #	DESCRIPTION
105	PT33151105	FLUORESCENT BULB NOTICE TAG
106	PT33151106	COMBO LABEL
107	PT33151107	TOUCH-UP PAINT, GRIZZLY BLACK

⚠ WARNING

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.



WARRANTY & RETURNS

Grizzly Industrial, Inc. warrants every product it sells for a period of **1 year** to the original purchaser from the date of purchase. This warranty does not apply to defects due directly or indirectly to misuse, abuse, negligence, accidents, repairs or alterations or lack of maintenance. This is Grizzly's sole written warranty and any and all warranties that may be implied by law, including any merchantability or fitness, for any particular purpose, are hereby limited to the duration of this written warranty. We do not warrant or represent that the merchandise complies with the provisions of any law or acts unless the manufacturer so warrants. In no event shall Grizzly's liability under this warranty exceed the purchase price paid for the product and any legal actions brought against Grizzly shall be tried in the State of Washington, County of Whatcom.

We shall in no event be liable for death, injuries to persons or property or for incidental, contingent, special, or consequential damages arising from the use of our products.

The manufacturers reserve the right to change specifications at any time because they constantly strive to achieve better quality equipment. We make every effort to ensure that our products meet high quality and durability standards and we hope you never need to use this warranty.

In the event you need to use this warranty, contact us by mail or phone and give us all the details. We will then issue you a "Return Number," which must be clearly posted on the outside as well as the inside of the carton. We will not accept any item back without this number. Proof of purchase must accompany the merchandise.

Please feel free to write or call us if you have any questions about the machine or the manual.

Thank you again for your business and continued support. We hope to serve you again soon.

To take advantage of this warranty, you must register it at <https://www.grizzly.com/forms/warranty>, or you can scan the QR code below to be automatically directed to our warranty registration page. Enter all applicable information for the product.



grizzly.com[®]

TOOL WEBSITE

Buy Direct and Save with Grizzly[®] – Trusted, Proven and a Great Value!
~Since 1983~

*Visit Our Website Today For
Current Specials!*

**ORDER
24 HOURS A DAY!
1-800-523-4777**

