

Grizzly *Industrial, Inc.*®

MODEL G5955 HEAVY DUTY HANGING AIR FILTER OWNER'S MANUAL *(For models manufactured since 9/11)*




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247570

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#DD5292 PRINTED IN TAIWAN



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.

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INTRODUCTION

Manual Accuracy

We are proud to offer this manual with your new machine! We've made every effort to be exact with the instructions, specifications, drawings, and photographs of the machine we used when writing this manual. However, sometimes we still make an occasional mistake.

Also, owing to our policy of continuous improvement, **your machine may not exactly match the manual**. If you find this to be the case, and the difference between the manual and machine leaves you in doubt, check our website for the latest manual update or call technical support for help.

Before calling, find the manufacture date of your machine by looking at the date stamped into the machine ID label (see below). This will help us determine if the manual version you received matches the manufacture date of your machine.

		MODEL GXXXX MACHINE NAME	
SPECIFICATIONS		WARNING!	
Motor: Specification: Specification: Specification: Weight:		Manufacture Date of Your Machine	ing this machine: operation. s and respirator. sted/setup and suit before starting.
<input type="text"/> Date <input type="text"/> Serial Number <small>Manufactured for Grizzly in Taiwan</small>			4. make sure the motor has stopped and disconnect power before adjustments, maintenance, or service. 5. DO NOT expose to rain or dampness. 6. DO NOT modify this machine in any way. 7. DO NOT remove safety guards. 8. Never leave machine running unattended. 9. DO NOT operate under the influence of drugs or alcohol. 10. Maintain machine carefully to prevent accidents.

For your convenience, we post all available manuals and manual updates for free on our website at www.grizzly.com. Any updates to your model of machine will be reflected in these documents as soon as they are complete.

Contact Info

We stand behind our machines. If you have any questions or need help, use the information below to contact us. Before contacting, please get the serial number and manufacture date of your machine. This will help us help you faster.

Grizzly Technical Support
1203 Lycoming Mall Circle
Muncy, PA 17756
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

Machine Description

This machine is designed to capture dust from ambient air in a woodworking shop for a short time after cutting or sanding operations. The air is drawn in through the filter by a centrifugal fan or "squirrel cage" and filtered before it returns to the workspace.

Depending on the size of the shop and layout of the air filter in relation to the woodworking machinery, the air filter is typically used alone or in conjunction with others.



Identification

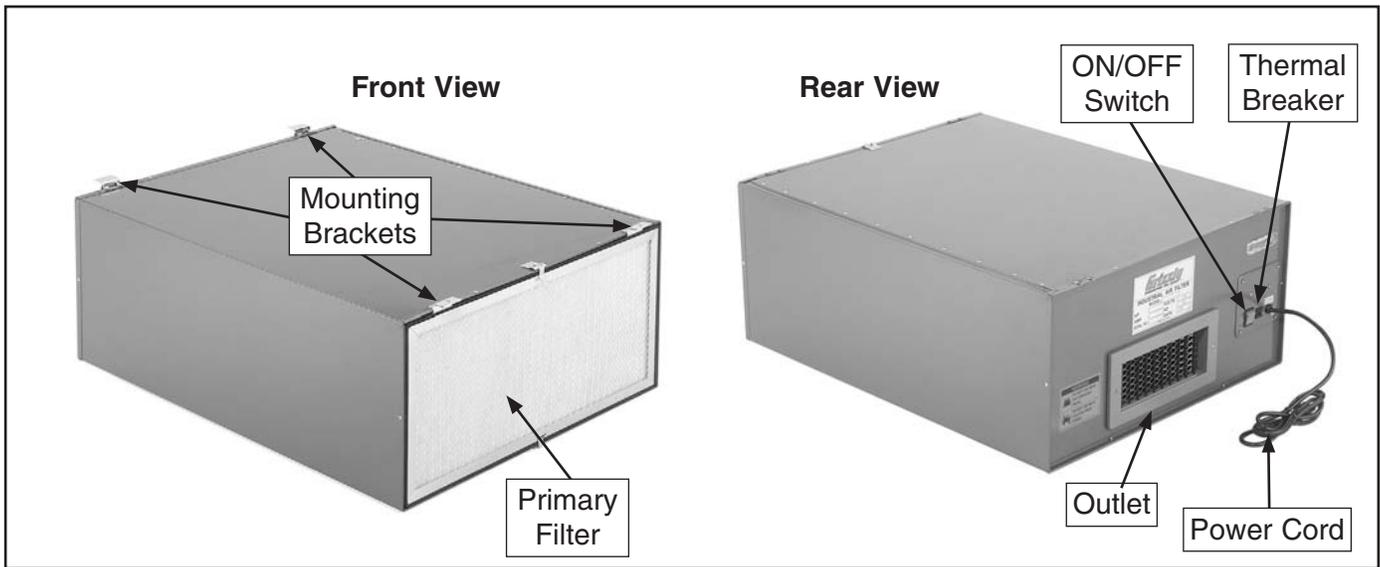
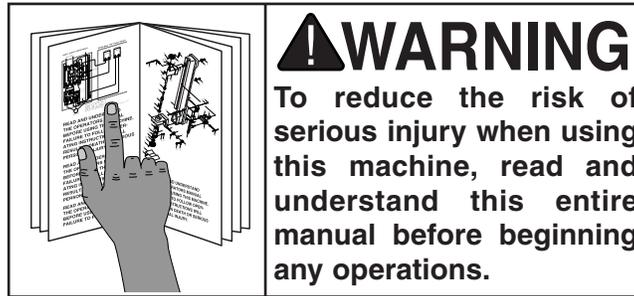


Figure 1. Front and rear view of G5955 air filter.



Accessories

WARNING

Some aftermarket accessories can be installed on this machine that could cause it to function improperly, increasing the risk of serious personal injury. To minimize this risk, only install accessories recommended for this machine by Grizzly.

NOTICE

Refer to the newest copy of the Grizzly Catalog for other accessories available for this machine.

Call 1-800-523-4777 To Order

G6514—5-Micron Washable Primary Filter
Washable prefilter for the Model G5955.

G6513—1-Micron Washable Secondary Filter
1 micron bag for the Model G5955.

G5956—Removable Control Switch for G5955
The Model G5956 Remote Control Switch is designed to work with the Model G5955 Hanging Air Filter. With this unit installed, you can control the air filter from anywhere in your shop.





MACHINE DATA SHEET

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

MODEL G5955 HEAVY-DUTY HANGING AIR FILTER

Product Dimensions:

Weight..... 48 lbs.
Width (side-to-side) x Depth (front-to-back) x Height..... 30-5/16 x 24 x 12-3/16 in.
Footprint (Length x Width)..... N/A x N/A

Shipping Dimensions:

Type..... Cardboard
Content..... Machine
Weight..... 48 lb.
Length x Width x Height..... 33 x 27 x 16 in.

Electrical:

Power Requirement..... 120V, Single-Phase, 60 Hz
Full-Load Current Rating..... 2.5A
Minimum Circuit Size..... 15 Amps
Switch..... Toggle On/Off Switch
Switch Voltage..... 120V
Cord Length..... 6 ft
Cord Gauge..... 16 AWG
Plug Included..... Yes
Included Plug Type..... NEMA 5-15

Motors:

Main

Horsepower..... 1/6 HP
Voltage..... 120V
Phase..... Single-Phase
Amps..... 2.5A
Cycle..... 60 Hz

Main Specifications:

Operation

Air Suction Capacity..... 510 CFM

Impeller Information

Impeller Type..... Squirrel Cage

Construction

Frame..... Pre-Formed Steel
Impeller..... Steel
Paint..... Powder Coated

Other Specifications:

ISO Factory ISO 9001
Country Of Origin Taiwan
Warranty 1 Year
Serial Number Location ID Label on Back of Machine



SECTION 1: SAFETY

WARNING

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.

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

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

 **CAUTION** 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 This symbol is used to alert the user to useful information about proper operation of the machine.

WARNING

Safety Instructions for Machinery

OWNER'S MANUAL. Read and understand this owner's manual **BEFORE** using machine. Untrained users can be seriously hurt.

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.

HAZARDOUS DUST. Dust created while using machinery 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.

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 avoid accidental slips which could cause a loss of workpiece control.

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.

MENTAL ALERTNESS. Be mentally alert when running machinery. Never operate under the influence of drugs or alcohol, when tired, or when distracted.



WARNING

DISCONNECTING POWER SUPPLY. Always disconnect machine from power supply before servicing, adjusting, or changing cutting tools (bits, blades, cutters, etc.). Make sure switch is in OFF position before reconnecting to avoid an unexpected or unintentional start.

APPROVED OPERATION. Untrained operators can be seriously hurt by machinery. Only allow trained or properly supervised people to use machine. When machine is not being used, disconnect power, remove switch keys, or lock-out machine to prevent unauthorized use—especially around children. Make workshop kid proof!

DANGEROUS ENVIRONMENTS. Do not use machinery in wet or rainy locations, cluttered areas, around flammables, or in dark areas. Keep work area clean, dry, and well-lighted.

ONLY USE AS INTENDED. Only use machine for its intended purpose. Never modify machine for a purpose not intended by the manufacturer!

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

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

REMOVE ADJUSTING TOOLS. Never leave adjustment tools, chuck keys, wrenches, etc. in or on machine—especially near moving parts. Verify removal before starting!

SECURING WORKPIECE. When required, use clamps or vises to secure workpiece. A secured workpiece protects hands and frees both of them to operate the machine.

FEED DIRECTION. Unless otherwise noted, feed work against the rotation of blades or cutters. Feeding in the same direction of rotation may pull your hand into the cut.

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

GUARDS & COVERS. Guards and covers can protect you from accidental contact with moving parts or flying debris. Make sure they are properly installed, undamaged, and working correctly before using machine.

NEVER STAND ON MACHINE. Serious injury or accidental contact with cutting tool may occur if machine is tipped. Machine may be damaged.

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

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.

UNATTENDED OPERATION. Never leave machine running while unattended. Turn machine **OFF** and ensure all moving parts completely stop before walking away.

MAINTAIN WITH CARE. Follow all maintenance instructions and lubrication schedules to keep machine in good working condition. An improperly maintained machine increases risk of injury.

CHECK DAMAGED PARTS. Regularly inspect machine for damaged parts, loose bolts, mis-adjusted or mis-aligned parts, binding, or any other conditions that may affect safe operation. Always repair or replace damaged or mis-adjusted parts before operating machine.

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 are experiencing difficulties performing the intended operation, stop using the machine! Contact our Technical Support Department at (570) 546-9663.



Additional Safety for Air Filters

WARNING

INTENDED USE. This air filter designed to capture dust from ambient air in a woodworking shop for a short time after cutting or sanding operations. **DO NOT** use this air filter to collect particles of silica, metal, lead paint, asbestos, or hazardous bacterium. **DO NOT** allow this filter to collect liquids, combustable fumes, nor burning or smoking material, or toxic fumes.

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.

LEAD PAINT DUST AND ASBESTOS FIBERS. **DO NOT** try to collect lead paint or asbestos fibers with this machine. Due to the high hazard to human health, these materials must be collected with special equipment.

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 there is a possibility of an allergic reaction.

WEAR RESPIRATOR. Fine dust that is too small to be caught in the filter will be blown into the 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.

EMPTYING DUST. When removing dust from the filters, turn **OFF** the switch, disconnect power, and wear a respirator and safety glasses. Empty dust away from ignition sources and into an approved container.

DISCONNECTING POWER SUPPLY. Turn the switch **OFF**, disconnect the air filter from the power supply, and allow the impeller to come to a complete stop before leaving the machine unattended or doing any service, cleaning, maintenance, or adjustments.

REGULAR CLEANING. For best performance, regularly check/clean the filters to avoid the buildup of fine dust. Make sure to regularly clean the surrounding area where the machine is operated—excessive dust buildup on overhead lights, heaters, electrical panels, or other heat sources will increase the risk of fire.

SUSPENDED DUST PARTICLES AND IGNITION SOURCES. **DO NOT** operate the air filter in areas where explosion risks are high. Areas of high risk include, but are not limited to, areas near pilot lights, open flames, or other ignition sources.

FIRE SUPPRESSION. Only operate the air filter in locations that contain a fire suppression system or have a fire extinguisher nearby.

IMPELLER HAZARDS. **DO NOT** place your hands or tools near the open inlet during operation for any reason. The powerful suction could easily cause accidental contact with the impeller which will cause serious personal injury or damage to the machine. Always keep small animals and children away from open dust collection inlets.

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

WARNING

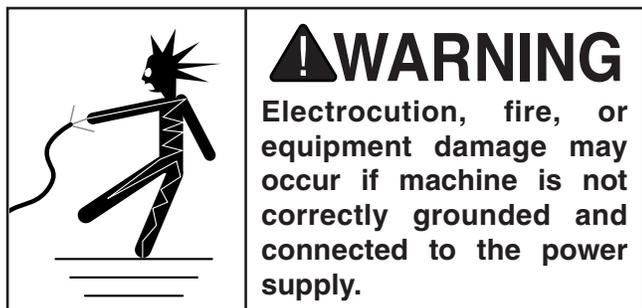
Like all machinery there is potential danger when operating this air filter. Accidents are frequently caused by lack of familiarity or failure to pay attention. Use this machine with respect and caution to reduce the risk of operator injury. If normal safety precautions are overlooked or ignored, serious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



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 a qualified electrician 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.

Full-Load Current Rating at 120V 2.5 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 requirements in the following section.

! WARNING

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

Circuit Requirements

This machine is prewired to operate on a 120V power supply circuit that has a verified ground and meets the following requirements:

Nominal Voltage 120V
Cycle 60 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: *The circuit requirements listed in this manual apply to a dedicated circuit—where only one machine will be running at a time. If this machine will be connected to a shared circuit where multiple machines will be running at the same time, consult a qualified electrician to ensure that the 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 (similar to the figure below). The plug must only be inserted into a matching receptacle (outlet) that is properly installed and grounded in accordance with all local codes and ordinances.

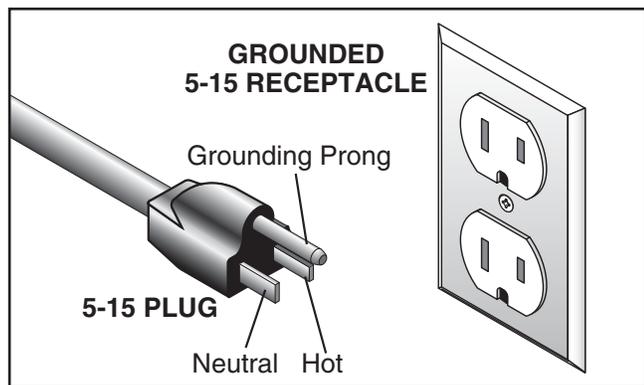
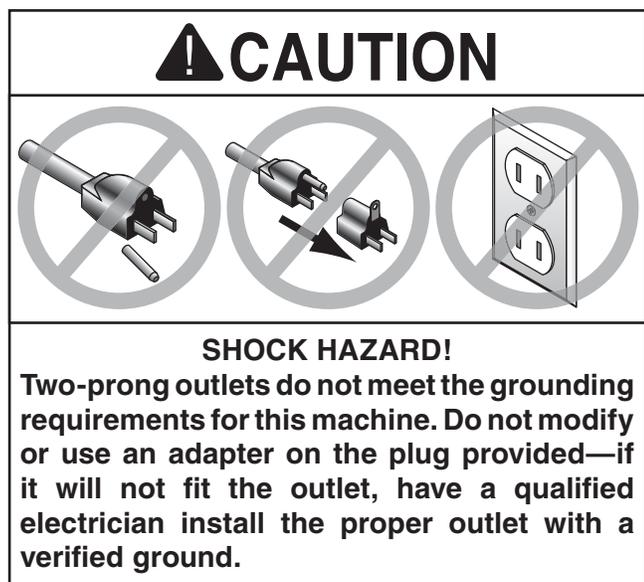


Figure 2. Typical 5-15 plug and receptacle.



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 may 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 contain a ground wire, match the required plug and receptacle, and meet the following requirements:

Minimum Gauge Size16 AWG
Maximum Length (Shorter is Better).....50 ft.



SECTION 3: SETUP

Needed for Setup

The following are needed to complete the setup process, but are not included with your machine.

Description	Qty
• Safety Glasses	1
• Additional People	2
• Wrench 10mm	1
• Screwdriver Phillips #2	1
• Drill	1
• Drill Bit 1/8"	1
• 3" #10 Deck Screws	12
• 2" x 4" Stock 5'-8'	As Needed
• Ladders	2

Unpacking

Your machine was carefully packaged for safe transportation. Remove the packaging materials from around your machine and inspect it. If you discover any damage, *please call us immediately at (570) 546-9663 for advice.*

Save the containers and all packing materials for possible inspection by the carrier or its agent. *Otherwise, filing a freight claim can be difficult.*

When you are completely satisfied with the condition of your shipment, inventory the contents.



⚠ WARNING
SUFFOCATION HAZARD!
 Keep children and pets away from plastic bags or packing materials shipped with this machine. Discard immediately.

Inventory

The following is a description of the main components shipped with your machine. Lay the components out to 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.

Box 1: (Figure 3)	Qty
A. Air Filter Unit.....	1
B. Hardware Bag	1
—Hex Bolts 1/4"-20 x 1/4".....	8
—Mounting Brackets	4

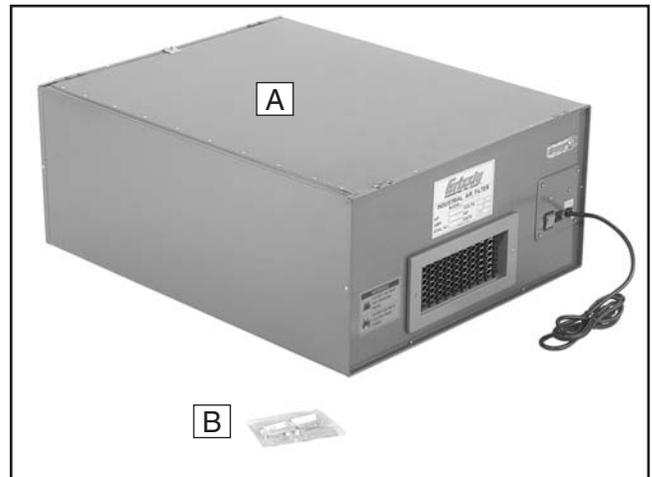


Figure 3. Inventory.

NOTICE

If you cannot find an item on this list, carefully check the machine and the packaging materials. Some of these items may be pre-installed for shipping or become misplaced during unpacking.



Power Connection

To avoid unexpected startups or property damage, use the following steps whenever connecting or disconnecting the machine

Connecting Power

1. Turn the switch to "Remote Control" (**OFF**).
2. Insert the power cord plug into a matching power supply receptacle. The machine is now connected to the power source.

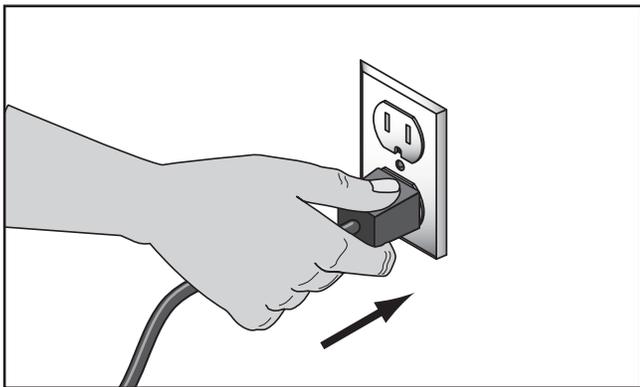


Figure 4. Connecting power.

Disconnecting Power

1. Turn the switch to "Remote Control" (**OFF**).
2. Grasp the molded plug and pull it completely out of the receptacle. Do not pull by the cord as this may damage the wires inside.

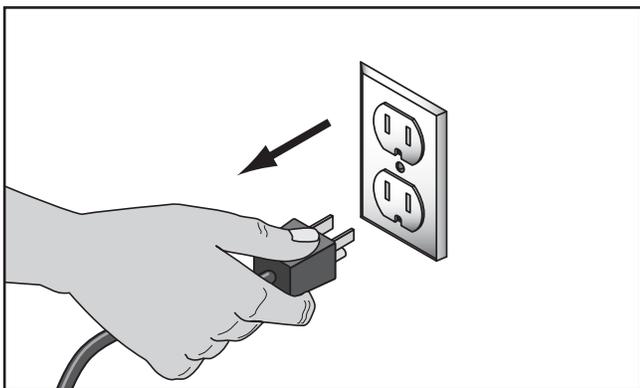


Figure 5. Disconnecting power.

Test Run

Once the assembly is complete, test run your machine to make sure it runs properly.

If, during the test run, you cannot easily locate the source of an unusual noise or vibration, stop using the machine immediately, then review the **Troubleshooting** on **Page 18**.

If you still cannot remedy a problem, contact our Tech Support at (570) 546-9663 for assistance.

To test run the machine:

1. Push switch to "Remote Control" to ensure the air filter is off.

Note: If you installed the Model G5956 remote control, do **NOT** use the remote control during this procedure.

2. Make sure you have read the safety instructions at the beginning of the manual and that the air filter is setup properly.
3. Make sure all tools and objects used during setup are cleared away from the air filter.
4. Push the switch to "No Remote Control" to turn the filter **ON**.
5. Listen to and watch for abnormal noises or actions. The machine should run smoothly with little or no vibration or rubbing noises.

—Strange or unusual noises should be investigated and corrected before operating the machine further. Always disconnect the machine from power when investigating or correcting potential problems.

6. Push the switch to "Remote Control" to turn the air filter **OFF**.



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 is exhausted at a higher velocity than that 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 method is used and according to your specific shop setup. **Figure 6** shows an example of good air circulation.

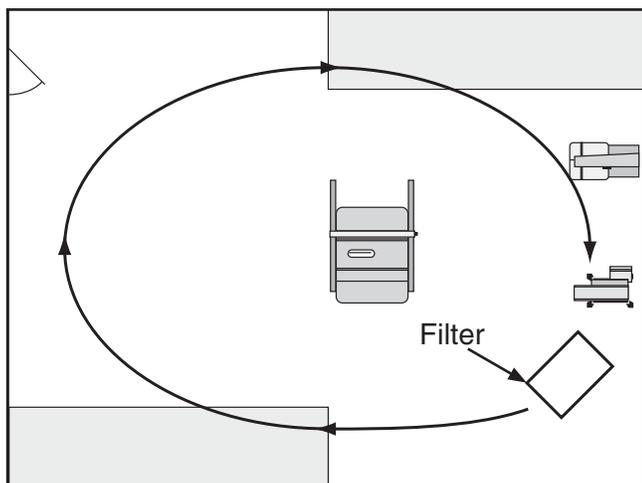


Figure 6. Good air circulation. The air filter placement promotes circular air motion.

Figure 7 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.

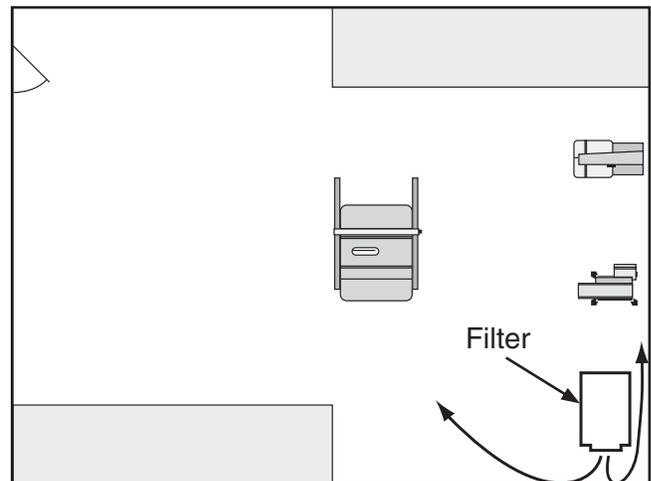


Figure 7. Poor air circulation. Placed too close to the wall, the air circulation short cycles, leaving much of the room unfiltered.

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 12" 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.



It is very important that the hanging air filter be supported properly. Please follow these guidelines when planning where to mount the unit:

- Where the mounting brackets attach is the top of the unit. The hanging air filter can be mounted on its side, top or at an angle but it can only be secured by the mounting brackets on its top.
- 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 joists or studs. These joists/studs should be capable of supporting at least 100 lbs. **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 switch and filters.

Mounting Brackets

Components and Hardware Needed	Qty
Mounting Brackets.....	4
Hex Bolts 1/4"-20 X 1/4".....	8

Tools Needed

Wrench 10mm	1
-------------------	---

To attach the mounting brackets:

1. Attach one mounting bracket to each corner of the hanging air filter using the 8 hex bolts and the holes on the edge of the box. Make sure to mount each bracket below the edge of the box as in **Figure 8**. This will ensure it is properly supported.

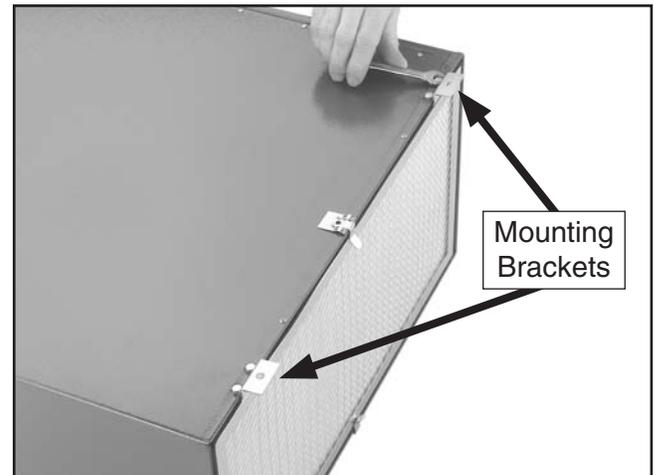
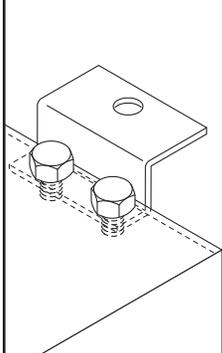


Figure 8. Mounting brackets attached.



⚠ CAUTION

The hanging air filter may fall and cause serious injury if it is not properly mounted. These mounting brackets must be attached to the bottom edge on the upper lip of hanging air filter to be safely supported.



Mounting

⚠ CAUTION

ONLY mount the air filter unit to joists, wall studs, 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.



Components and Hardware Needed	Qty
2 x 4.....	5'-8'
3" #10 Deck Screws.....	12

Tools Needed	Qty
Saw	1
Drill	1
Phillips Screw Driver	1
1/8" Drill Bit.....	1

You can install the air filter unit in a confined shop by mounting it flush to the ceiling with the included mounting brackets. The following instructions can be adjusted to accommodate hanging the unit on a wall or at an angle on the ceiling.

We recommend mounting 2 x 4 cleats across joists or studs, then attaching the hanging air filter to the cleats on 18" or 31" centers, as shown in **Figure 9** and **10**.

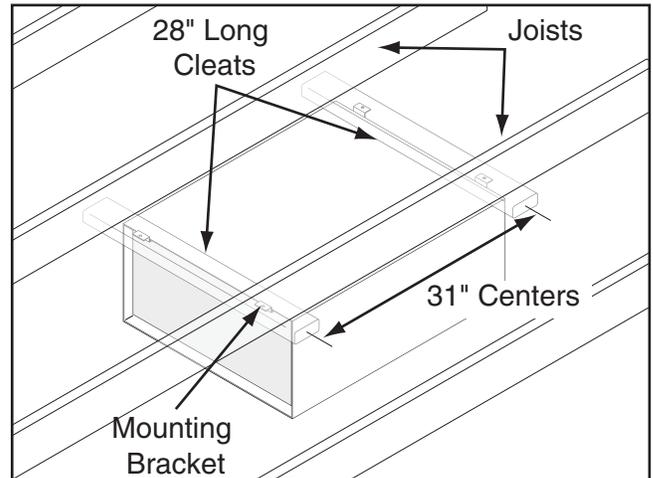


Figure 9. Example of Model G5955 supported using 28" long material.

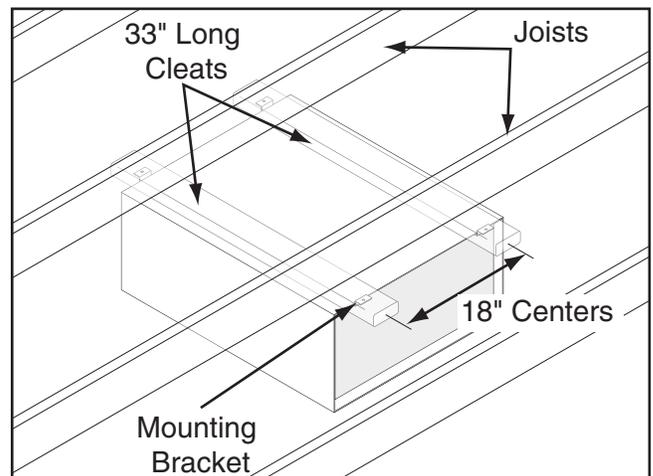


Figure 10. Example of Model G5955 supported using 33" long material.



To mount the air filter to a ceiling:

1. Locate the applicable load bearing studs or joists—or if the ceiling has sheet rock or some other covering, locate the joists with a stud finder and mark their centers.
2. Make reference marks on the joists or ceiling for the cleat layout at either 18" or 31" centers.
3. Cut two each of either 33" or 28" length 2 x 4 cleats.

Note: *The 2X4's are cut a little longer than the air filter/joists to guard against splitting the ends when fasteners are driven through them.*

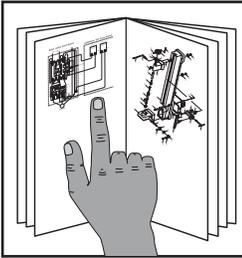
4. Measure the distance between the centers of your joists (see **Figure 9 or 10**) and drill four pilot holes into the cleats to match, (two on each end) for the mounting screws.

Tip: *Try to keep the hole placement even on the cleats so that the weight of the hanging air cleaner is evenly distributed.*

5. Place the cleats on the reference marks and fasten them securely with 3" long #10 deck screws. Use longer screws if you have to drive them through the additional thickness of sheet rock or other covering.
6. With one or more people supporting the weight of the air filter, mount the air filter to the cleats by fastening each of the four mounting brackets with a deck screw.



SECTION 4: OPERATIONS

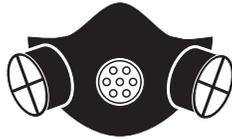


!WARNING

To reduce the risk of serious injury when using this machine, read and understand this entire manual before operating.

!WARNING

Damage to your eyes and lungs could result from using this machine without proper protective gear. Always wear safety glasses and a respirator when operating this machine.



!WARNING

THIS AIR FILTER IS TO BE USED FOR WOOD DUST ONLY. DO NOT use it to filter toxic fumes, paint spray, or dissipate smoke or fumes.

General

Operating the G5955 Hanging Air Filter is straight forward. Simply push the start switch to “No Remote Control.” The fan should start up and begin filtering the air in the room.

If you are using the Model G5956 remote control, refer to the operating instructions that came with the remote.

Filtering Performance

When used in conjunction with a dust collection system, the Model G5955 efficiently removes most fine wood particles in the air, and will recirculate the volume of air in a room measuring 25' X 25' X 8' approximately six times in one hour. We recommend that the volume of air in your room be recirculated 6-8 times every hour for best filtering effect.

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

To calculate the recirculating rate for your shop space:

Step 1. Use the formula below to calculate how long it takes to circulate all the volume of air in your shop. The rate of air movement for the air filter is 510 cubic feet per minute.

$$\frac{W \times L \times H}{510} = \text{Minutes for circulating 1 time}$$

$$\text{Example: } \frac{25' \times 25' \times 8'}{510} = \frac{5000}{510} = 9.8 \text{ Minutes}$$

Step 2. Calculate how many times per hour the volume is recirculated through the hanging air filter by dividing 60 minutes by the circulating time from **Step 1**. The result is listed as times per hour.

$$\text{Example: } \frac{60}{9.8} = 6.1 \text{ Times per Hour}$$

Machine Storage

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



SECTION 5: MAINTENANCE

Cleaning Filters

The amount of use has a direct bearing on when you must change the primary air filter and service the secondary air filter.

To maintain optimal 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.

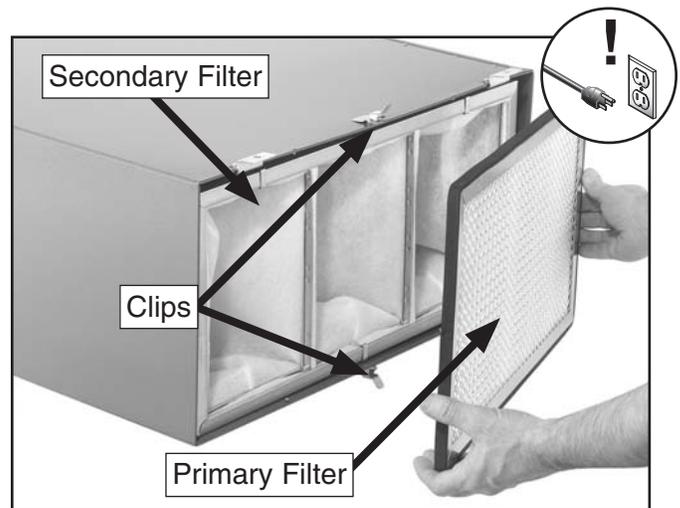


Figure 11. Filters exposed for cleaning.

	<p>! WARNING Keep the air filter unit unplugged during all maintenance procedures. Ignoring this warning may result in serious personal injury to you or others!</p>
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	<p>! WARNING Always wear a respirator and safety glasses when cleaning the filters. Sawdust may cause allergic reactions or respiratory problems.</p>
--	--

To change and service the filters:

1. DISCONNECT MACHINE FROM POWER!
2. Unlatch the filter retaining clips from the top and bottom of the unit, as shown in **Figure 11**, remove the primary filter and place it in a trash bag. Shake it gently to remove the bulk of the dust.

Using compressed air to more thoroughly clean this filter is OK, but only if it can be done outdoors, and in an appropriate environment where people are not in the immediate vicinity.

<p>NOTICE DO NOT use compressed air to blow out the secondary filter in the following steps. If you do, you will damage the filter and reduce filtering quality.</p>

3. Remove the secondary filter, place it inside a trash bag and gently shake the dust from the inside of the filter.
4. Optional: Wash the secondary filter with water to remove the remaining dust, then let it dry completely.
5. Vacuum out the inside of the air filter housing.
6. Re-install the filters, then secure with the retaining clips.

Note: During regular use the filters can be cleaned several times before replacement becomes necessary. To determine whether the filters need to be replaced, hold them up to the sunlight and visually inspect them. The filters do not need to be replaced if you can see through them. Replace the filters if they are hard to see through and contain a lot of caked on dirt and grime.



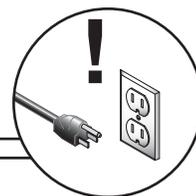
SECTION 6: SERVICE

Review the troubleshooting and 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 at (570) 546-9663.

Note: Please gather the serial number and manufacture date of your machine before calling.

To reduce the risk of serious personal injury or damage to the machine, any repairs not covered in this manual should only be performed by or with the assistance of qualified service personnel.

Troubleshooting



Motor & Electrical

Symptom	Possible Cause	Possible Solution
Machine does not start or a breaker trips.	<ol style="list-style-type: none"> 1. Power supply switched OFF or is at fault. 2. Wall circuit breaker tripped. 3. Wiring is open/has high resistance. 4. Hand-held controller not working. 5. Receiver at fault. 6. Motor ON button or ON/OFF switch is at fault. 7. Motor at fault. 	<ol style="list-style-type: none"> 1. Ensure power supply is on/has correct voltage. 2. Ensure circuit size is correct/replace weak breaker. 3. Check/fix broken, disconnected, or corroded wires.. 4. Replace batteries; stay in signal range. 5. Inspect/replace if faulty. 6. Replace faulty ON button or ON/OFF switch. 7. Test/repair/replace.
Machine stalls or is underpowered.	<ol style="list-style-type: none"> 1. Run capacitor at fault. 2. Motor wired incorrectly. 3. Plug/receptacle at fault. 4. Motor bearings at fault. 5. Motor overheated. 6. Motor at fault. 	<ol style="list-style-type: none"> 1. Test/repair/replace. 2. Wire motor correctly. 3. Test for good contacts/correct wiring. 4. Test/repair/replace. 5. Clean motor, let cool, and reduce workload. 6. Test/repair/replace.
Machine has vibration or noisy operation.	<ol style="list-style-type: none"> 1. Motor or component loose. 2. Motor fan rubbing on fan cover. 3. Motor bearings at fault. 	<ol style="list-style-type: none"> 1. Inspect/replace damaged bolts/nuts, and re-tighten with thread locking fluid. 2. Fix/replace fan cover; replace loose/damaged fan. 3. 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 on a flat surface and wobbles. 2. Impeller fan is damaged and unbalanced. 3. The motor mounting is loose. 4. Impeller is loose on the motor shaft. 5. Motor fan housing is dented, causing the motor fan blade to hit the housing while spinning. 	<ol style="list-style-type: none"> 1. Stabilize the air filter. 2. Unplug air filter, and inspect the impeller for dents, bends, loose fins. Replace impeller if any damage is found. 3. Make sure all fasteners on the air filter are tight. 4. Replace the motor and impeller as a set if the motor shaft and the impeller hub is damaged. 5. Replace motor fan housing.
Air filter does not adequately collect dust; poor performance.	<ol style="list-style-type: none"> 1. The primary or secondary filter are dirty. 	<ol style="list-style-type: none"> 1. Clean the filters.



SECTION 7: 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

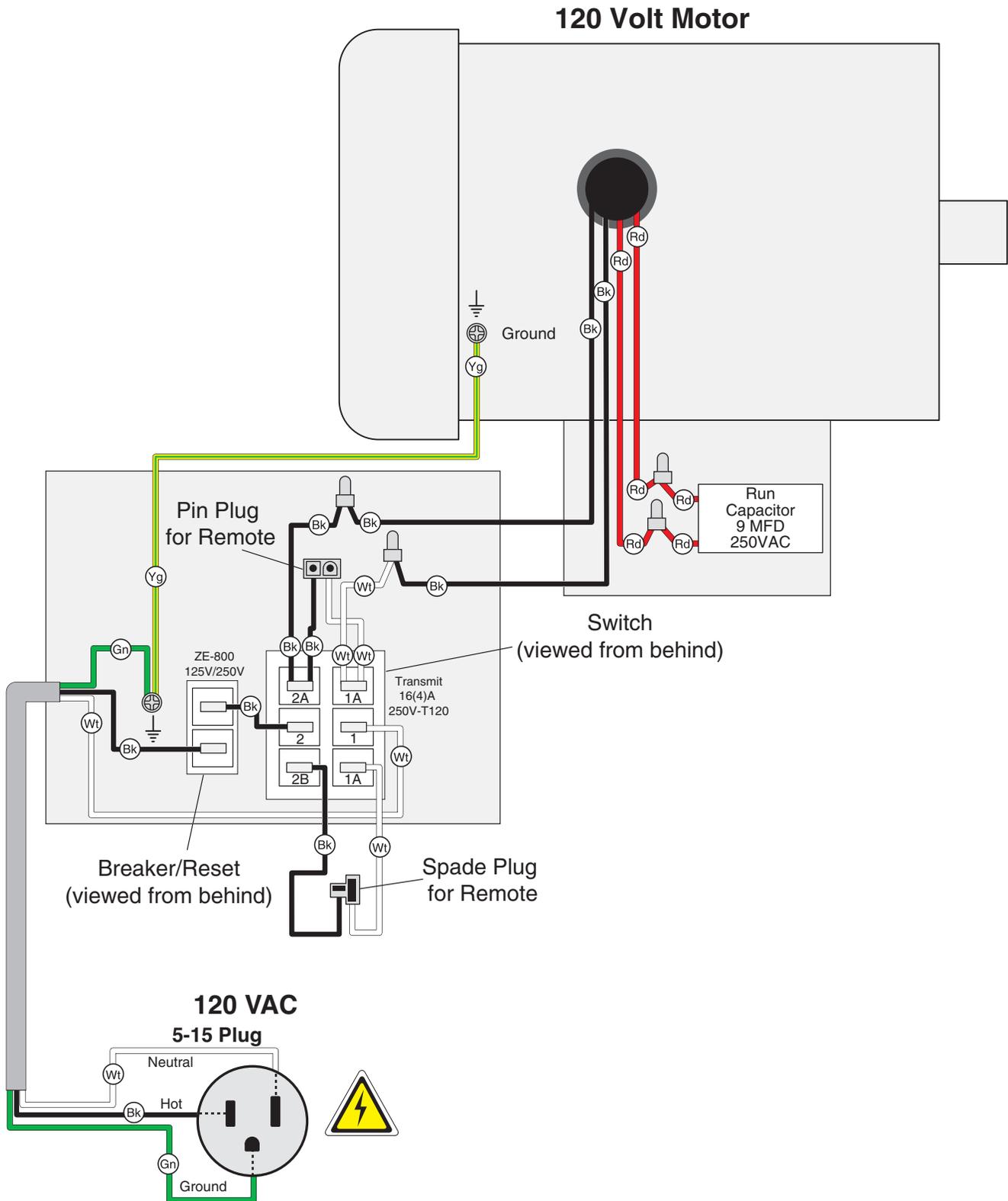
The photos and diagrams included in this section are best viewed in color. You can view these pages in color at www.grizzly.com.

COLOR KEY

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

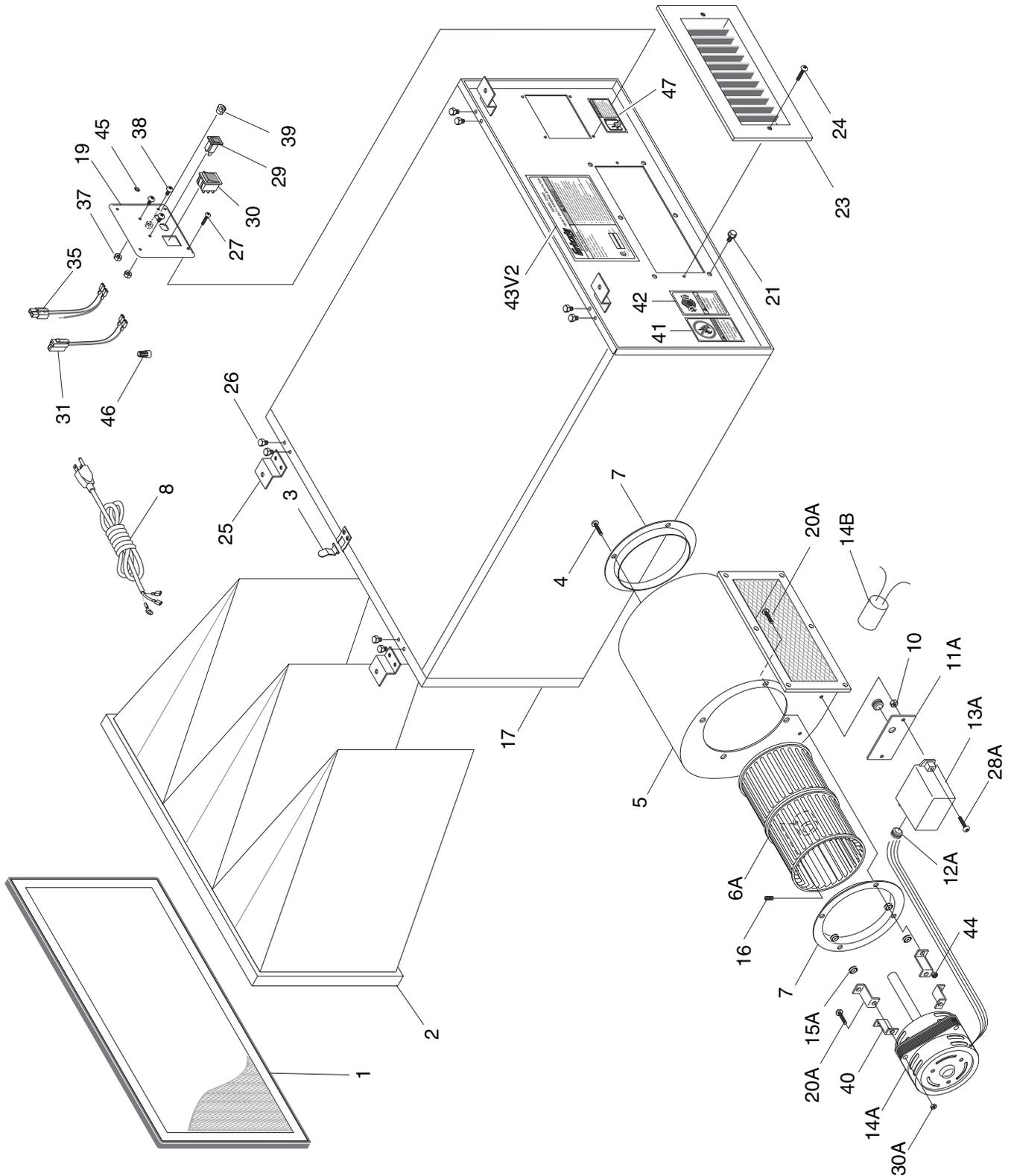


Wiring Diagram



SECTION 8: PARTS

Main Breakdown



Main Parts List

REF	PART #	DESCRIPTION
1	P5955001	PRIMARY FILTER 23-1/4 X 11-1/4 X 1/2
2	P5955002	SECONDARY FILTER
3	P5955003	DOOR CLIP
4	PS38M	PHLP HD SCR M4-.7 X 10
5	P5955005	FAN HOUSING
6A	P5955006A	FAN BLADE V2.02.02
7	P5955007	FAN INLET
8	PWRCRD110L	POWER CORD 16G X 3W 73"L 5-15
10	PN01M	HEX NUT M6-1
11A	P5955011A	FIXED PLATE
12A	P5955012A	GROMMET
13A	P5955013A	COVER
14A	P5955014A	MOTOR 1/6 HP 120V
14B	P5955014B	R CAPACITOR 9M 250V 1 X 1-1/2
15A	P5955015A	RUBBER BUSHING
16	PSS03M	SET SCREW M6-1 X 8
17	P5955017	MAIN HOUSING
19	P5955019	SWITCH PANEL
20A	PS75M	PHLP HD SCR M5-.8 X 35
21	PB19	HEX BOLT 1/4-20 X 1/2
23	P5955023	OUTLET PORT

REF	PART #	DESCRIPTION
24	PS01	PHLP HD SCR 10-24 X 1/2
25	P5955025	MOUNTING BRACKET
26	PB57	HEX BOLT 1/4-20 X 1/4
27	PS07M	PHLP HD SCR M4-.7 X 8
28A	PS22M	PHLP HD SCR M5-.8 X 25
29	P5955029	BREAKER/RESET SWITCH ZE-800
30	P5955030	ON/OFF SWITCH 16A 250V-T120
30A	PN06M	HEX NUT M5-.8
31	P5955031	POWER INPUT SOCKET
35	P5955035	POWER OUTPUT SOCKET
37	PN04M	HEX NUT M4-.7
38	PS07M	PHLP HD SCR M4-.7 X 8
39	P5955039	STRAIN RELIEF STRAIGHT 5/16"
40	P5955040	MOTOR MOUNT BRACKET
41	P5955041	EXPLOSION HAZARD LABEL
42	PLABEL-61B	RESPIRATOR LABEL 3.8 X 2H
43V2	P5955043V2	MACHINE ID LABEL CSA V2.09.11
44	PLN01M	LOCK NUT M4-.7
45	PTLW01M	EXT TOOTH WASHER 4MM
46	PWRN01	WIRE NUT 14-22 GAUGE
47	PLABEL-12A	READ MANUAL 2W X 3.3H V2.07.05





WARRANTY CARD

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 Phone # _____ Email _____ Invoice # _____
 Model # _____ Order # _____ Serial # _____

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<input type="checkbox"/> Card Deck	<input type="checkbox"/> Website	<input type="checkbox"/> Other:
- Which of the following magazines do you subscribe to?

<input type="checkbox"/> Cabinetmaker & FDM	<input type="checkbox"/> Popular Science	<input type="checkbox"/> Wooden Boat
<input type="checkbox"/> Family Handyman	<input type="checkbox"/> Popular Woodworking	<input type="checkbox"/> Woodshop News
<input type="checkbox"/> Hand Loader	<input type="checkbox"/> Precision Shooter	<input type="checkbox"/> Woodsmith
<input type="checkbox"/> Handy	<input type="checkbox"/> Projects in Metal	<input type="checkbox"/> Woodwork
<input type="checkbox"/> Home Shop Machinist	<input type="checkbox"/> RC Modeler	<input type="checkbox"/> Woodworker West
<input type="checkbox"/> Journal of Light Cont.	<input type="checkbox"/> Rifle	<input type="checkbox"/> Woodworker's Journal
<input type="checkbox"/> Live Steam	<input type="checkbox"/> Shop Notes	<input type="checkbox"/> Other:
<input type="checkbox"/> Model Airplane News	<input type="checkbox"/> Shotgun News	
<input type="checkbox"/> Old House Journal	<input type="checkbox"/> Today's Homeowner	
<input type="checkbox"/> Popular Mechanics	<input type="checkbox"/> Wood	
- What is your annual household income?

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<input type="checkbox"/> \$50,000-\$59,000	<input type="checkbox"/> \$60,000-\$69,000	<input type="checkbox"/> \$70,000+
- What is your age group?

<input type="checkbox"/> 20-29	<input type="checkbox"/> 30-39	<input type="checkbox"/> 40-49
<input type="checkbox"/> 50-59	<input type="checkbox"/> 60-69	<input type="checkbox"/> 70+
- How long have you been a woodworker/metalworker?

<input type="checkbox"/> 0-2 Years	<input type="checkbox"/> 2-8 Years	<input type="checkbox"/> 8-20 Years	<input type="checkbox"/> 20+ Years
------------------------------------	------------------------------------	-------------------------------------	------------------------------------
- How many of your machines or tools are Grizzly?

<input type="checkbox"/> 0-2	<input type="checkbox"/> 3-5	<input type="checkbox"/> 6-9	<input type="checkbox"/> 10+
------------------------------	------------------------------	------------------------------	------------------------------
- Do you think your machine represents a good value? Yes No
- Would you recommend Grizzly Industrial to a friend? Yes No
- Would you allow us to use your name as a reference for Grizzly customers in your area?
Note: We never use names more than 3 times. Yes No

10. Comments: _____

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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.

To take advantage of 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.

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.

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.

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