



**MODEL T34359**  
**20" X 37" METALWORKING**  
**DOWNDRAFT TABLE**  
**OWNER'S MANUAL**  
*(For models manufactured since 11/24)*



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#JA23425 PRINTED IN TAIWAN

V1.12.24

**\*\*\*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.**

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# 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


## 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<br>MACHINE NAME |  |
| SPECIFICATIONS   |   | ▲ WARNING!                  |  |
| Motor:   | To reduce risk of serious injury when using this machine: |                             |  |
| Specification:   | Manual before operation.                                  |                             |  |
| Specification:   | Safety glasses and respirator.                            |                             |  |
| Specification:   | Correctly adjusted/setup and                              |                             |  |
| Weight:  | power is connected to grounded circuit before starting.   |                             |  |
|  | 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.  |                             |  |
|  | 8.  |                             |  |
|  | 9. ended.   |                             |  |
|  | 10. Use of drugs or alcohol.                              |                             |  |
|  | 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.



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

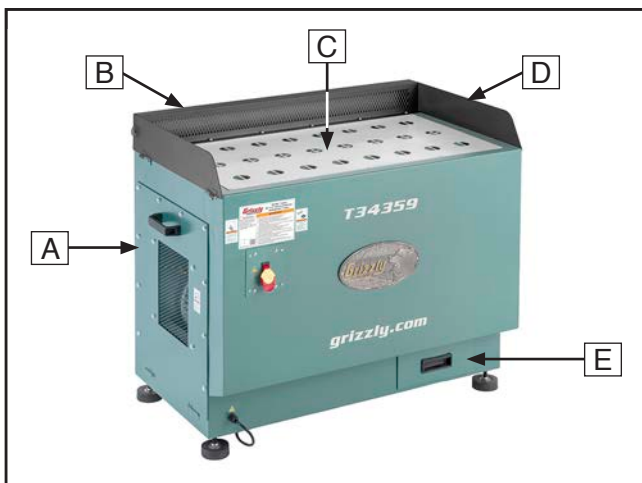


# Controls & Components



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.

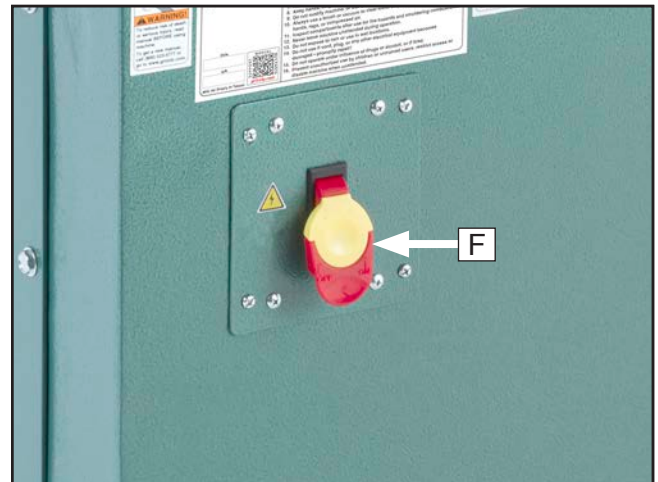
## Table & Drawer Components



**Figure 1.** Table components.

- A. Motor Access Door:** Folds down to provide easy access to motor.
- B. Suction Panel:** Provides additional suction surface area to maximize dust collection.
- C. Table Plate:** Strong, durable work surface (removes for cleaning and maintenance).
- D. Side Panels:** Contain sparks and dust produced by operation. Side panels also fold down to accommodate oversized workpieces.
- E. Dust Drawer:** Collects large dust particles during machine operation.

## Power Controls



**Figure 2.** Power controls.

- F. ON/OFF Paddle Switch:** Turns power to motor **ON** and **OFF**.

## Filter Compartment



**Figure 3.** Location of filters.

- G. Aluminum Mesh Filters:** Filter 90% of particles 200 microns in size.







# MACHINE DATA SHEET

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

## MODEL T34359 20" X 37" METALWORKING DOWNDRAFT TABLE

### Product Dimensions:

Weight..... 220 lbs.  
Width (side-to-side) x Depth (front-to-back) x Height..... 41-1/2 x 23-1/2 x 33-1/2 in.  
Footprint (Length x Width)..... 39-1/2 x 20 in.

### Shipping Dimensions:

Type..... Cardboard Box on Wood Pallet  
Content..... Machine  
Weight..... 251 lbs.  
Length x Width x Height..... 43 x 29 x 34 in.

### Electrical:

Power Requirement..... 110V, Single-Phase, 60 Hz  
Full-Load Current Rating..... 6A  
Minimum Circuit Size..... 15A  
Connection Type..... Cord & Plug  
Power Cord Included..... Yes  
Power Cord Length..... 72 in.  
Power Cord Gauge..... 14 AWG  
Plug Included..... Yes  
Included Plug Type..... 5-15  
Switch Type..... Paddle Safety Switch w/Removable Key

### Motors:

#### Main

Horsepower..... 3/4 HP  
Phase..... Single-Phase  
Amps..... 6A  
Speed..... 1150 RPM  
Type..... TENV Capacitor-Start Induction  
Power Transfer..... Direct  
Bearings..... Shielded & Permanently Lubricated

### Main Specifications:

#### Operation Info

Air Suction Capacity..... 1850 CFM  
Filter Micron..... 200  
Filter Efficiency..... 90%  
Impeller Type..... Squirrel Cage  
Impeller Size..... 9-1/2 x 7 in.  
Inlet Hole Diameter..... 8 in.  
Outlet Size..... 10 x 8 in.



**Filter Info**

|                        |        |
|------------------------|--------|
| Number of Filters..... | 2      |
| Filter Length.....     | 20 in. |
| Filter Width.....      | 16 in. |
| Filter Thickness.....  | 1 in.  |

**Table Info**

|                            |            |
|----------------------------|------------|
| Table Size Length.....     | 36-1/2 in. |
| Table Size Width.....      | 19-1/2 in. |
| Floor to Table Height..... | 29-1/2 in. |
| Table Load Capacity.....   | 440 lbs.   |

**Construction Info**

|                        |               |
|------------------------|---------------|
| Frame.....             | Steel         |
| Impeller.....          | Steel         |
| Table.....             | Steel         |
| Paint Type/Finish..... | Powder Coated |

**Other Specifications:**

|   |          |
|---|----------|
| Country of Origin .....                 | Taiwan   |
| Warranty .....                          | 1 Year   |
| Approximate Assembly & Setup Time ..... | 10 Min.  |
| Serial Number Location .....            | ID Label |
| Sound Rating .....                      | 70 dB    |

**Features:**

Designed to Accommodate Metal Sanding, Grinding, Soldering, and Polishing Applications  
9-1/2" x 7" Squirrel Cage Fan  
Durable Powder-Coated Finish  
Quiet Operation  
Adjustable, Vibration-Dampening Rubber Feet  
440 lb. Table Load Capacity





# 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



**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 loose clothing, gloves, neckties, 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 Metal Downdraft Tables

## WARNING

Long-term respiratory damage, cancer, or birth defects can occur from using this machine without proper use of a respirator. Explosions or fire can result if machine is used to capture incorrect materials or dust/waste material is exposed to an ignition source. To reduce these risks, operator and bystanders **MUST** completely heed the warnings below.

**USE FOR INTENDED PURPOSE.** This downdraft table is designed to capture sparks and particles created while grinding certain metals. **DO NOT** use it to capture materials made from wood or wood products, lead, magnesium, asbestos, crystalline silica, gypsum, or any other non-metal products. **DO NOT** use it to capture welding fumes, gasses, vapors, liquids, or smoke.

**WEAR PROPER PPE.** Dust created from cutting, grinding, sanding, etc. may cause cancer, birth defects, or long-term respiratory damage. Be aware of the dust hazards, exposure limits, and toxicity associated with each type of workpiece material. Very fine dust/particles are unlikely to be captured and may become airborne in the work area. Anyone working with or around this machine **MUST** wear a NIOSH-approved respirator rated for the workpiece material.

**TOXIC METALS.** Exposure (or over-exposure) to certain types of metal dusts or fumes can result in serious, potentially deadly health effects. To reduce this risk, research toxic effects of metal types you work with and always seek to minimize/eliminate exposure to yourself and others.

**CLEANING DRAWERS.** Wear safety glasses and a NIOSH-approved respirator rated for the waste metal type when emptying and cleaning drawers. Empty only into an approved container, taking care to minimize amount of dust allowed to become airborne and prevent spread onto hands or clothing. Dispose of waste properly.

**HIGH-HAZARD MATERIAL.** This machine does **NOT** protect against highly hazardous materials, such as lead dust, asbestos fibers, or radioactive particles. These materials **MUST** be collected with special filtration equipment because of their high health/contamination hazard and difficulty of filtration. **DO NOT** attempt to collect such materials with this machine.

**SAFE OPERATING LOCATION.** **DO NOT** place downdraft table where it can be exposed to rain or moisture exposure to water creates a shock hazard and will reduce life of machine.

**RISK OF FIRE/EXPLOSIONS.** Fine metal dust particles can ignite, depending on material type and circumstances. Keep machine away from pilot lights, open flames, or other ignition sources. **NEVER** use near chemical fumes or within an enclosed spray booth. **NEVER** use to capture magnesium particles—as these particles can ignite from exposure to water/moisture.

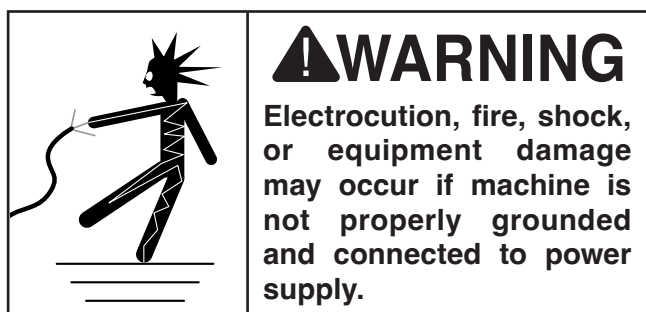
**PROPERLY MAINTAIN MACHINE.** Keep machine in proper working condition to help ensure all guards and other components work as intended and function safely. Perform routine inspections and all necessary maintenance, as indicated in owner's manual. Never operate machine with damaged or worn parts. Never operate machine with filters, guards, or covers removed.



# 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.

### Full-Load Current Rating at 110V ..... 6 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  
Cycle ..... 60 Hz  
Phase ..... Single-Phase  
Power Supply Circuit ..... 15 Amps  
Plug/Receptacle ..... NEMA 5-15

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

## **!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.**

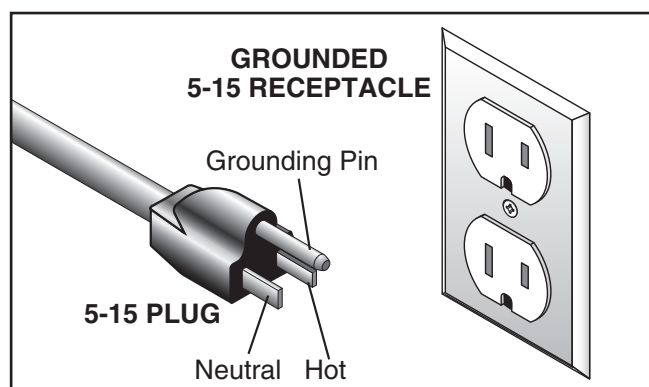
**Note:** *Circuit requirements in this manual apply to a dedicated circuit—where only one machine will be running on the circuit at a time. If machine will be connected to a shared circuit where multiple machines may be running at the same time, consult an electrician or qualified service personnel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



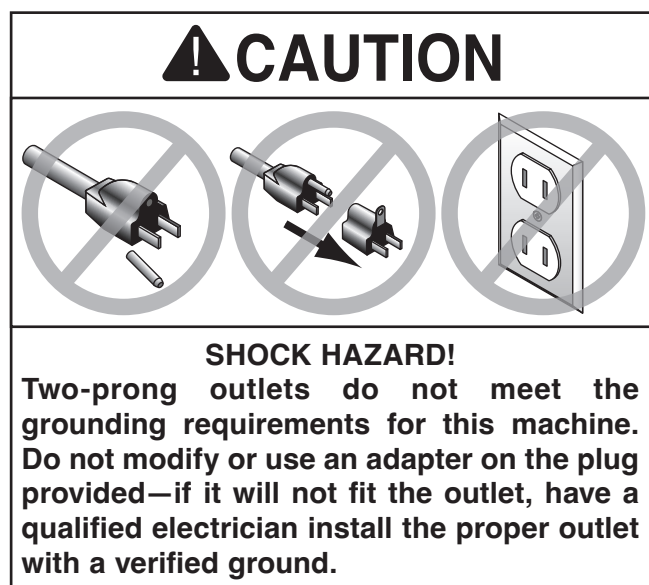
## Grounding & Plug Requirements

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.



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 machine 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).

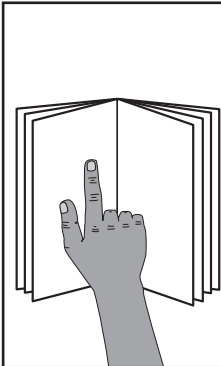
Any extension cord used with this machine must be in good condition and contain a ground wire and matching plug/receptacle. Additionally, it must meet the following size requirements:

**Minimum Gauge Size ..... 14 AWG**  
**Maximum Length (Shorter is Better).....50 ft.**



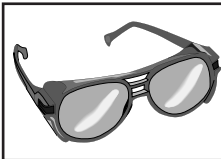


# SECTION 3: SETUP



## **!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!



## **!WARNING**

### **HEAVY LIFT!**

Straining or crushing injury may occur from improperly lifting machine or some of its parts. To reduce this risk, get help from other people and use a forklift (or other lifting equipment) rated for weight of this machine.

## Needed for Setup

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

| Description   | Qty |
|---|-----|
| • Additional People .....                                       | 1   |
| • Safety Glasses (for each person).....                         | 1   |
| • Forklift or Pallet Jack<br>(Rated for at least 500 lbs.)..... | 1   |
| • Screwdriver Phillips #2 .....                                 | 1   |

## 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.*



# 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.

| Main (Figure 5)        | Qty |
|------------------------|-----|
| A. Suction Panel ..... | 1   |
| B. Main Housing .....  | 1   |

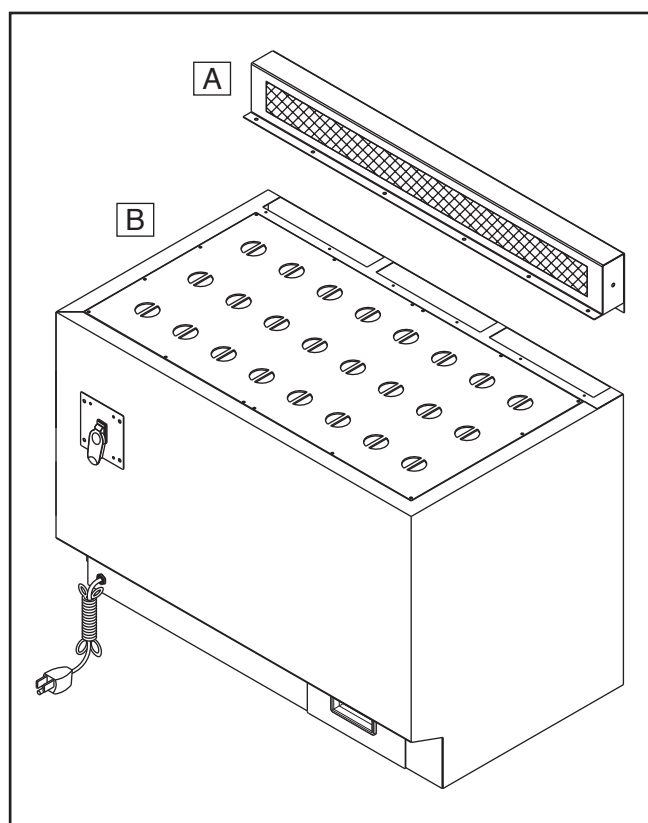


Figure 5. Main inventory.

## NOTICE

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

| Small Parts (Figure 6)   | Qty |
|--|-----|
| C. Foot Pad Assemblies .....                                       | 4   |
| D. Cover Handle .....  | 1   |
| E. Phillips Head Screws $\frac{1}{4}$ "-20 x $\frac{5}{8}$ " ..... | 2   |
| F. Knob Bolts .....  | 2   |
| G. Phillips Head Screws #10-24 x $\frac{3}{8}$ " .....             | 12  |

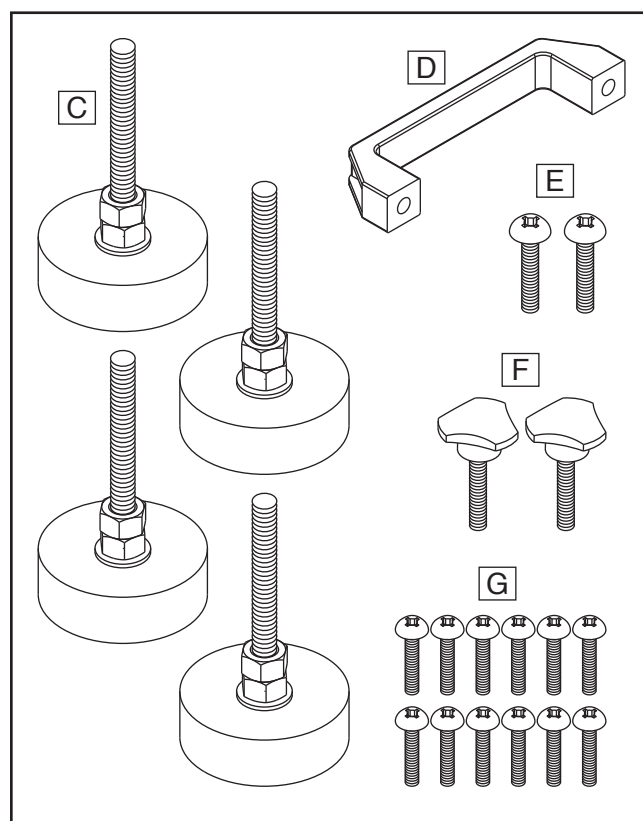


Figure 6. Small parts inventory.





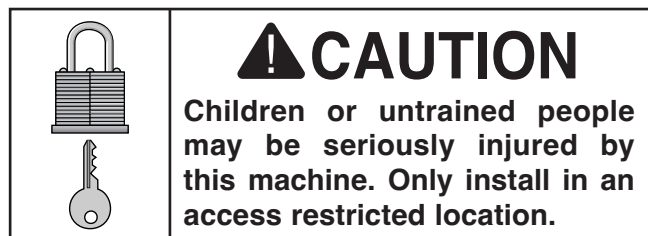
# Site Considerations

## Weight Load

Refer to the **Machine Data Sheet** for the weight of your machine. Make sure that the surface upon which the machine is placed will bear the weight of the machine, additional equipment that may be installed on the machine, and the heaviest workpiece that will be used. Additionally, consider the weight of the operator and any dynamic loading that may occur when operating the machine.

## Space Allocation

Consider the largest size of workpiece that will be processed through this machine and provide enough space around the machine for adequate operator material handling or the installation of auxiliary equipment. With permanent installations, leave enough space around the machine to open or remove doors/covers as required by the maintenance and service described in this manual. **See below for required space allocation.**



## Physical Environment

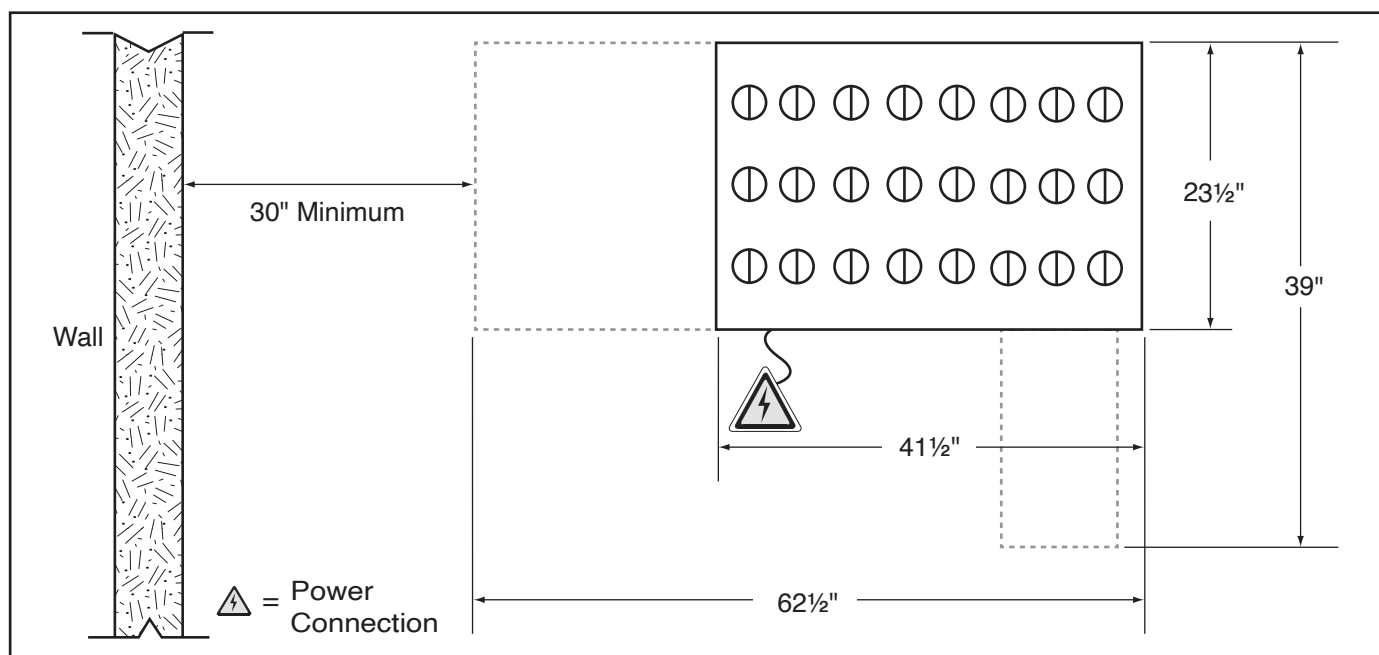
The physical environment where the machine is operated is important for safe operation and longevity of machine components. For best results, operate this machine in a dry environment that is free from excessive moisture, hazardous chemicals, airborne abrasives, or extreme conditions. Extreme conditions for this type of machinery are generally those where the ambient temperature range exceeds 41°–104°F; the relative humidity range exceeds 20%–95% (non-condensing); or the environment is subject to vibration, shocks, or bumps.

## Electrical Installation

Place this machine near an existing power source. Make sure all power cords are protected from traffic, material handling, moisture, chemicals, or other hazards. Make sure to leave enough space around machine to disconnect power supply or apply a lockout/tagout device, if required.

## Lighting

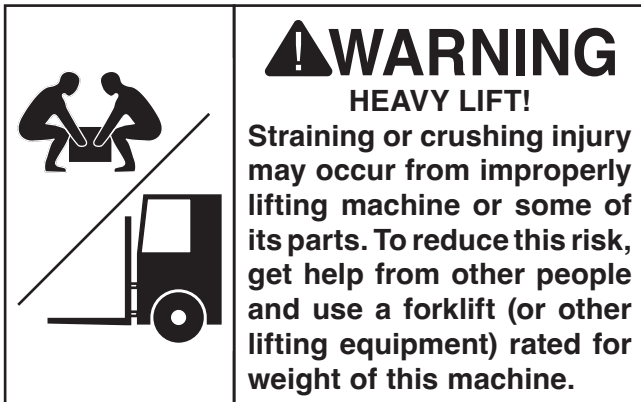
Lighting around the machine must be adequate enough that operations can be performed safely. Shadows, glare, or strobe effects that may distract or impede the operator must be eliminated.



**Figure 7.** Minimum working clearances.



# Lifting & Placing



Keep the machine on its pallet and use a forklift or pallet jack to place the machine next to its intended location. With the help of several people, lift the downdraft table by the bottom four corners and place it into position on the floor (see **Figure 8**).



**Figure 8.** Lifting areas.

# Assembly

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

## To assemble machine:

1. With help from another person, lay back of machine flat on floor (see **Figure 9**).

**Note:** We recommend sweeping the floor clean and laying down a piece of cardboard or a blanket to prevent scratching paint during first step.

2. Thread (4) foot pad assemblies into bottom of machine, as shown in **Figure 9**.

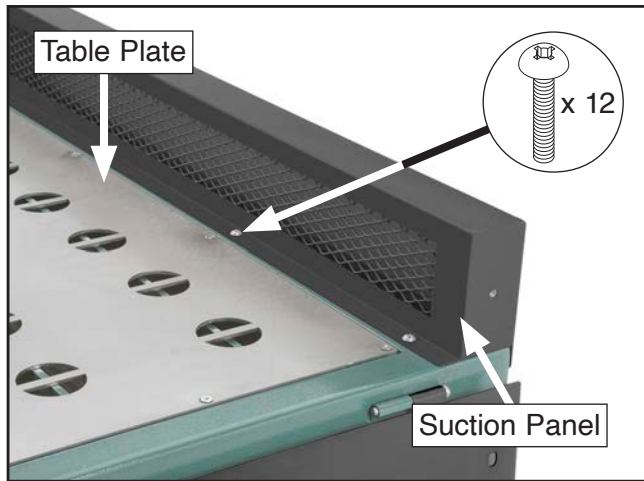


**Figure 9.** Installing foot pads.

3. Return machine to upright position so it rests on foot pads.
4. Ensure all foot pads evenly touch floor. Rotate individual footpads to adjust as necessary.
5. Once machine rests evenly on floor, tighten jam nuts against bottom of machine.

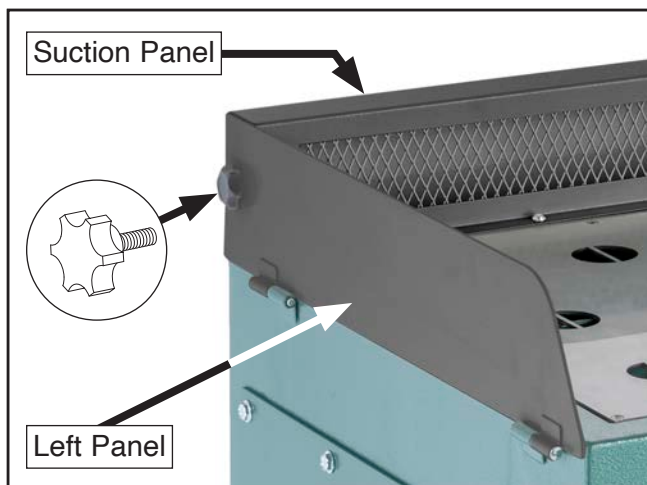


6. Install suction panel on rear of main housing with screen facing forward (see **Figure 10**) using (12) #10-24 x  $\frac{3}{8}$ " Phillips head screws.



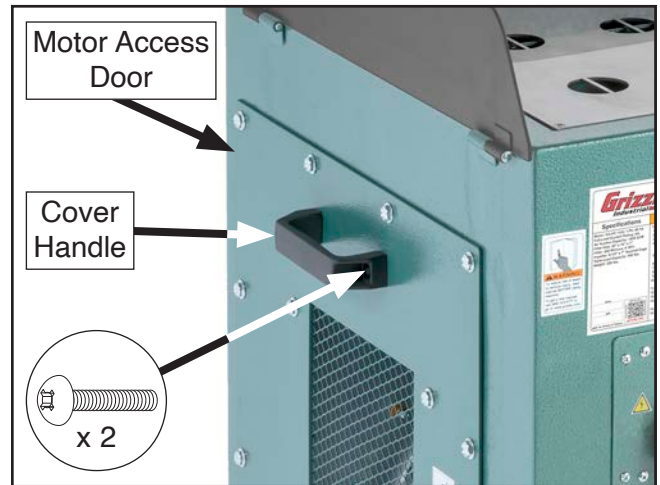
**Figure 10.** Suction panel installed.

7. Tilt left panel up (see **Figure 11**) and attach to suction panel using (1) knob bolt.
8. Repeat **Step 7** for right panel.



**Figure 11.** Knob bolt installed.

9. Use (2)  $\frac{1}{4}$ "-20 x  $\frac{5}{8}$ " Phillips head screws to mount cover handle on motor access door, as shown in **Figure 12**.



**Figure 12.** Handle installed.



# 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, and
- 2) the switch disabling key disables the switch properly.

## 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.

## WARNING

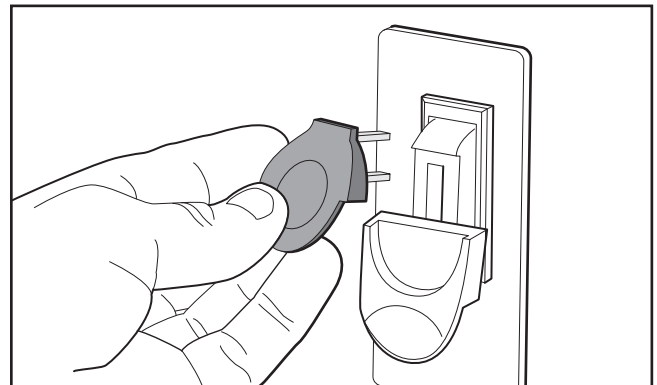
**DO NOT** start machine until all preceding setup instructions have been performed. Operating an improperly set up machine may result in malfunction or unexpected results that can lead to serious injury, death, or machine/property damage.

### To test run the machine:

1. Clear all setup tools away from machine.
2. Connect machine to power supply.
3. Turn machine **ON**, verify motor operation, and then turn machine **OFF**.

The motor should run smoothly and without unusual problems or noises.

4. Remove switch disabling key, as shown in **Figure 13**.



**Figure 13.** Removing switch key from paddle switch.

5. Try to start machine with paddle switch. The machine should not start.
  - If the machine *does not* start, the switch disabling feature is working correctly.
  - If the machine *does start*, immediately stop the machine. The switch disabling feature is not working correctly. This safety feature must work properly before proceeding with regular operations. Call Tech Support for help.



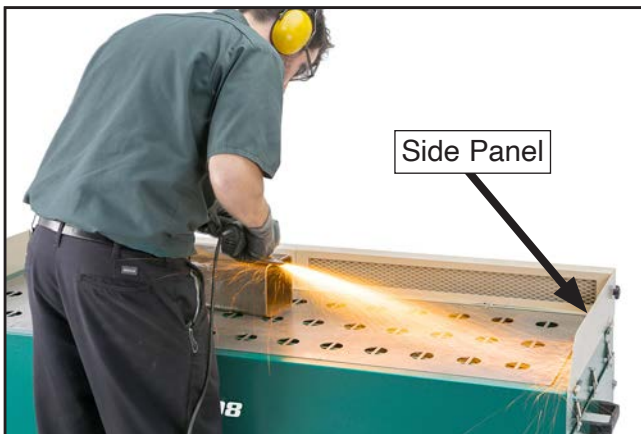
# SECTION 4: OPERATIONS

## Operation

This downdraft table features a  $\frac{3}{4}$  HP, 110V, single-phase motor that draws dust from the work table into a two-stage filter system, virtually eliminating dust from the air. The side panels can be secured in place or folded down to make room for larger workpieces.

Dust is collected in a large drawer that can be easily removed at the front of the machine.

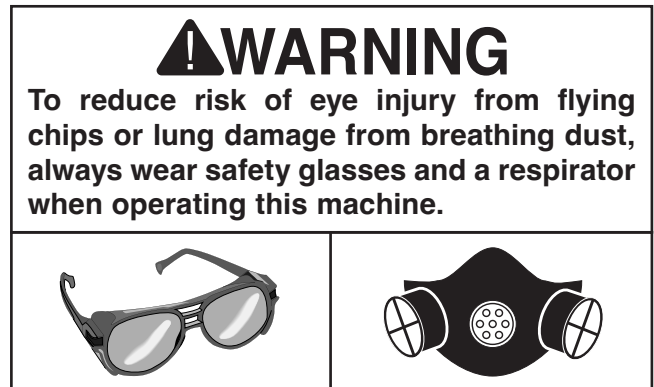
Always ensure objects have not fallen through the table plate into the collection area. When the machine is not in use, remove the safety key from the ON/OFF switch to avoid accidental start up.



**Figure 14.** Example of typical grinding operation.

## NOTICE

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



### To use downdraft table:

1. Place workpiece on table.
2. Place panels in upright position, latching them with knob bolts or fold side panels down when working on larger pieces that extend beyond table.
3. Turn downdraft table **ON** and perform operation (see **Figure 14**).
4. Turn downdraft table **OFF** when finished.
5. Empty and clean dust drawer (see **Page 21**).
6. Inspect compartments for fire hazards and smoldering combustibles before leaving downdraft table unattended.





# 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.

**T30299—20V 4½" Angle Grinder**

**T30299X—20V 4½" Angle Grinder w/Battery**

**T30299X1—20V 4½" Angle Grinder w/Battery and Charger**

**T30299X2—20V 4½" Angle Grinder w/2 Batteries and Charger**

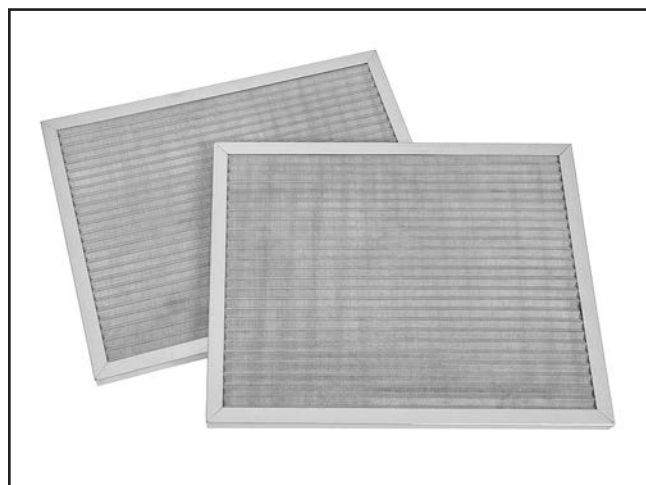
Clean, sharpen, cut, sand and polish with this handy tool. The Grizzly PRO™ Angle Grinder is a great tool for your home, shop or jobsite. It is powered by 2.0Ah Lithium-Ion batteries that are low profile and incredible lightweight for all day performance. The batteries can be used on all the Grizzly PRO™ hand power tools and are easily charged with a 2.4A Fast Charger.



**Figure 15.** Model T30299 20V 4½" Angle Grinder.

**T27576—20" x 16" x 1" Metal Mesh Filter**

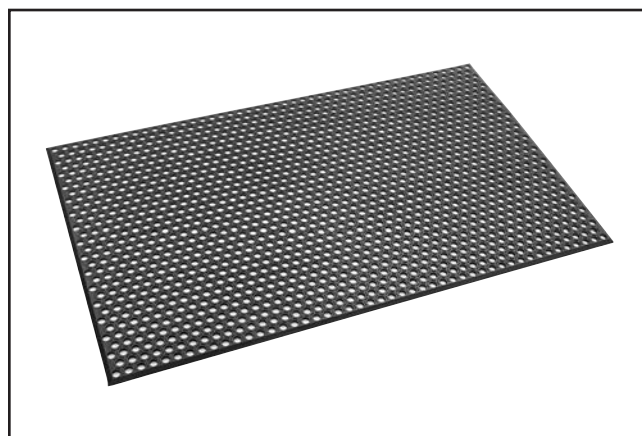
A replacement metal mesh filter for the T34359 Downdraft Table. 2 pc.



**Figure 16.** Model T27576 Metal Mesh Filter.

**T10456—Heavy-Duty Anti-Fatigue Mat**

This Anti-Fatigue Mat features no-slip tread for safety and comfort. Open-hole design allows liquid to drain. Perfect for wet and oily conditions.



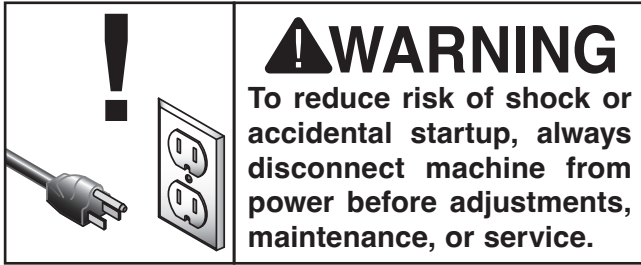
**Figure 17.** Model T10456 Anti-Fatigue Mat.

**order online at [www.grizzly.com](http://www.grizzly.com) or call 1-800-523-4777**



# SECTION 6: MAINTENANCE

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## Schedule

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For optimum performance from your machine, follow this maintenance schedule and refer to any specific instructions given in this section.

### 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

- Fire hazards/smoldering metal dust.
- Loose mounting bolts.
- Damaged or worn filters.
- Damaged or worn door gasket/seal.
- Worn or damaged wires.
- Any other unsafe condition.

### Daily Maintenance

- Empty dust drawer.
- Check/replace filters.

### Monthly Maintenance

- Clean/vacuum dust buildup from inside cabinet and off motor.

## Cleaning & Protecting

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Cleaning the Model T34359 is relatively easy. Vacuum excess dust and wipe off the remaining dust with a dry cloth.

**IMPORTANT:** DO NOT use compressed air to clean the machine—especially if indoors—as it will likely cause unnecessary dust to become airborne.

### ! WARNING

**Wear safety glasses, a NIOSH-approved respirator, and protective gloves rated for the waste metal type when removing, cleaning and replacing filters or dust drawer. Empty only into an approved container, taking care to minimize amount of dust allowed to become airborne, and prevent spread onto hands or clothing. Dispose of all waste properly according to local regulations for material type.**





# Cleaning Dust Drawer

Frequently monitor and clean the dust drawer (see **Figure 18**).



**Figure 18.** Dust drawer.

## **!WARNING**

Wear safety glasses, respirator, and protective gloves rated for waste metal type when removing and cleaning dust drawer. Empty only into an approved container, taking care to minimize amount of dust allowed to become airborne, and prevent spread onto hands and clothing.

| Items Needed                      | Qty   |
|-----------------------------------|-------|
| Safety Glasses .....              | 1 Pr. |
| NIOSH-Approved Respirator .....   | 1     |
| Protective Gloves .....           | 1 Pr. |
| Vacuum Cleaner w/HEPA Filter..... | 1     |

### To empty dust tray and drawer:

1. DISCONNECT MACHINE FROM POWER!

## **!CAUTION**

If you have just turned machine **OFF**, wait a few minutes for dust inside machine to settle before proceeding with following steps.

2. Put on personal protective equipment.
3. Pull dust drawer out and empty contents into approved, closed-top metal disposal container. Vacuum remaining fine particles from bottom of drawer.
4. Install dust drawer in machine.



# Cleaning/Replacing Filters

Remove and clean filters when suction becomes noticeably reduced. Replace filters when cleaning does not improve performance. The amount of use has a direct bearing on how often you must change the filters.

## ! WARNING

**Wear safety glasses, respirator, and protective gloves rated for waste metal type when removing and cleaning filters. Dispose of dust only into an approved container, taking care to minimize amount of dust allowed to become airborne, and prevent spread onto hands and clothing.**

| Items Needed                     | Qty   |
|----------------------------------|-------|
| Safety Glasses .....             | 1 Pr. |
| NIOSH-Approved Respirator .....  | 1     |
| Protective Gloves .....          | 1 Pr. |
| Phillips Screwdriver #2 .....    | 1     |
| Wrench Open-End 13mm.....        | 1     |
| Replacement Filters T27576 ..... | 1 Set |

### To clean/replace filters:

1. DISCONNECT MACHINE FROM POWER!
2. Remove table plate and (3) support bars (see Figure 19).

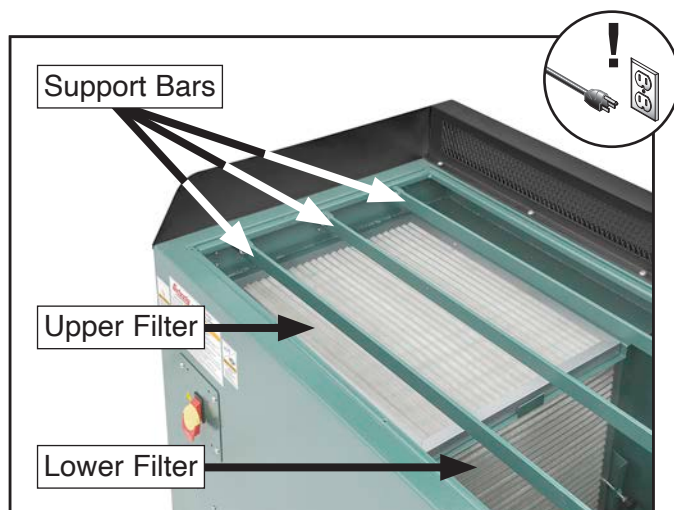


Figure 19. Location of support bars.

3. Loosen filter knobs to remove lower filter (see Figure 20).

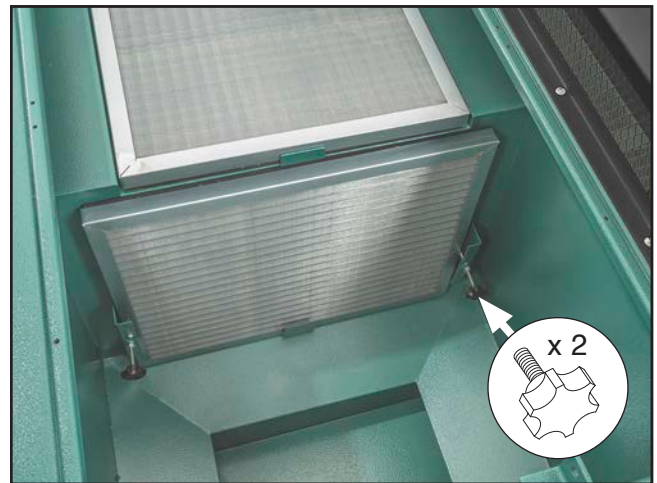


Figure 20. Lower filter secured by knobs.

4. Remove both filters and gently knock the dust off inside a garbage can.

**Note:** *This technique will work two or three times before filters must be replaced.*

5. Install filters with gaskets facing down or into machine. Both filters are identical in size and can be placed in either position.
6. Install filter knobs, support bars, and table plate.

## ! WARNING

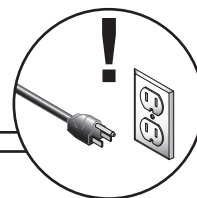
**Never operate machine with damaged or worn parts. Never operate machine with filters, guards, or covers removed.**



# 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"><li>1. Switch disabling key removed.</li><li>2. Incorrect power supply voltage or circuit size.</li><li>3. Power supply circuit breaker tripped or fuse blown.</li><li>4. Wiring broken, disconnected, or corroded.</li><li>5. ON/OFF switch at fault.</li><li>6. Motor or motor bearings at fault.</li></ol> | <ol style="list-style-type: none"><li>1. Install switch disabling key.</li><li>2. Ensure correct power supply voltage and circuit size.</li><li>3. Ensure circuit is sized correctly and free of shorts. Reset circuit breaker or replace fuse.</li><li>4. Fix broken wires or disconnected/corroded connections (<b>Page 25</b>).</li><li>5. Replace switch.</li><li>6. Replace motor.</li></ol> |
| Machine stalls or is underpowered.   | <ol style="list-style-type: none"><li>1. Filter element at fault.</li><li>2. Motor overheated.</li><li>3. Run capacitor at fault.</li><li>4. Extension cord too long.</li><li>5. Motor or motor bearings at fault.</li></ol>  | <ol style="list-style-type: none"><li>1. Clean/replace filters (<b>Page 22</b>).</li><li>2. Clean motor, let cool, and reduce workload.</li><li>3. Test/repair/replace.</li><li>4. Move machine closer to power supply; use shorter extension cord.</li><li>5. Replace motor.</li></ol>   |
| Machine has vibration or noisy operation.  | <ol style="list-style-type: none"><li>1. Motor or component loose.</li><li>2. Stand feet not adjusted properly.</li><li>3. Motor bearings at fault.</li></ol>   | <ol style="list-style-type: none"><li>1. Replace damaged or missing bolts/nuts or tighten if loose.</li><li>2. Adjust stand feet to stabilize machine (<b>Page 15</b>).</li><li>3. Test by rotating shaft; rotational grinding/loose shaft requires bearing replacement.</li></ol>  |

### Operations

| Symptom   | Possible Cause   | Possible Solution  |
|---|--|--|
| Downdraft table does not adequately collect dust; poor performance. | <ol style="list-style-type: none"><li>1. Dust collection drawer is full.</li><li>2. Filter is dirty.</li></ol> | <ol style="list-style-type: none"><li>1. Empty collection drawer (<b>Page 21</b>).</li><li>2. Knock dust off filter; replace with new filter (<b>Page 22</b>).</li></ol> |



# 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](http://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

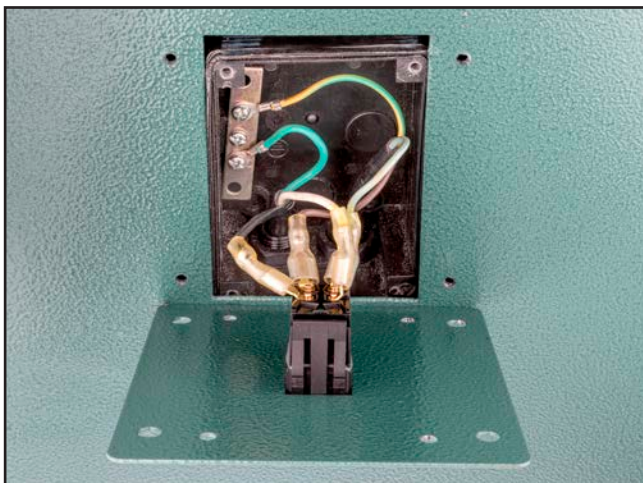
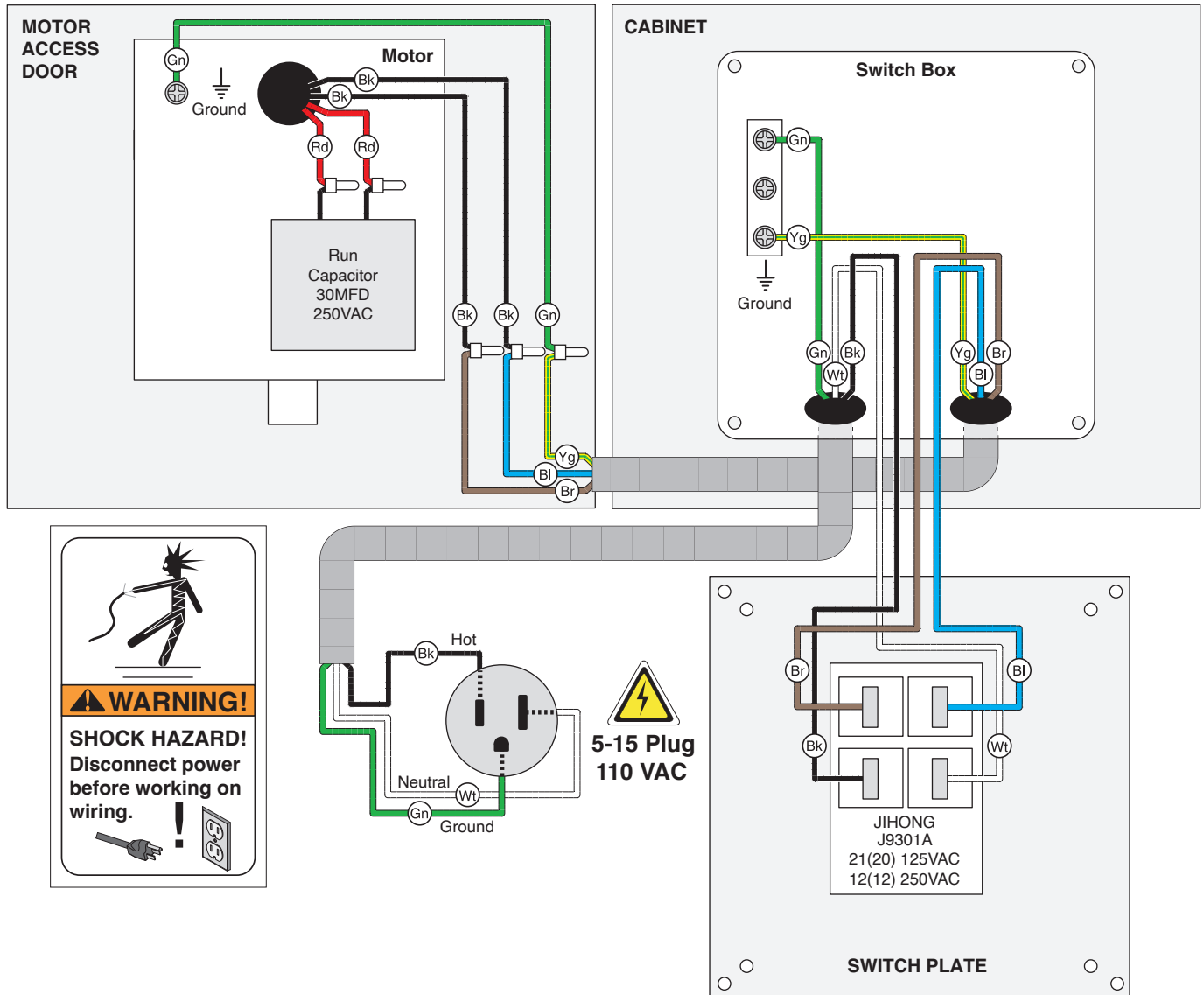


Figure 21. Switch box wiring.



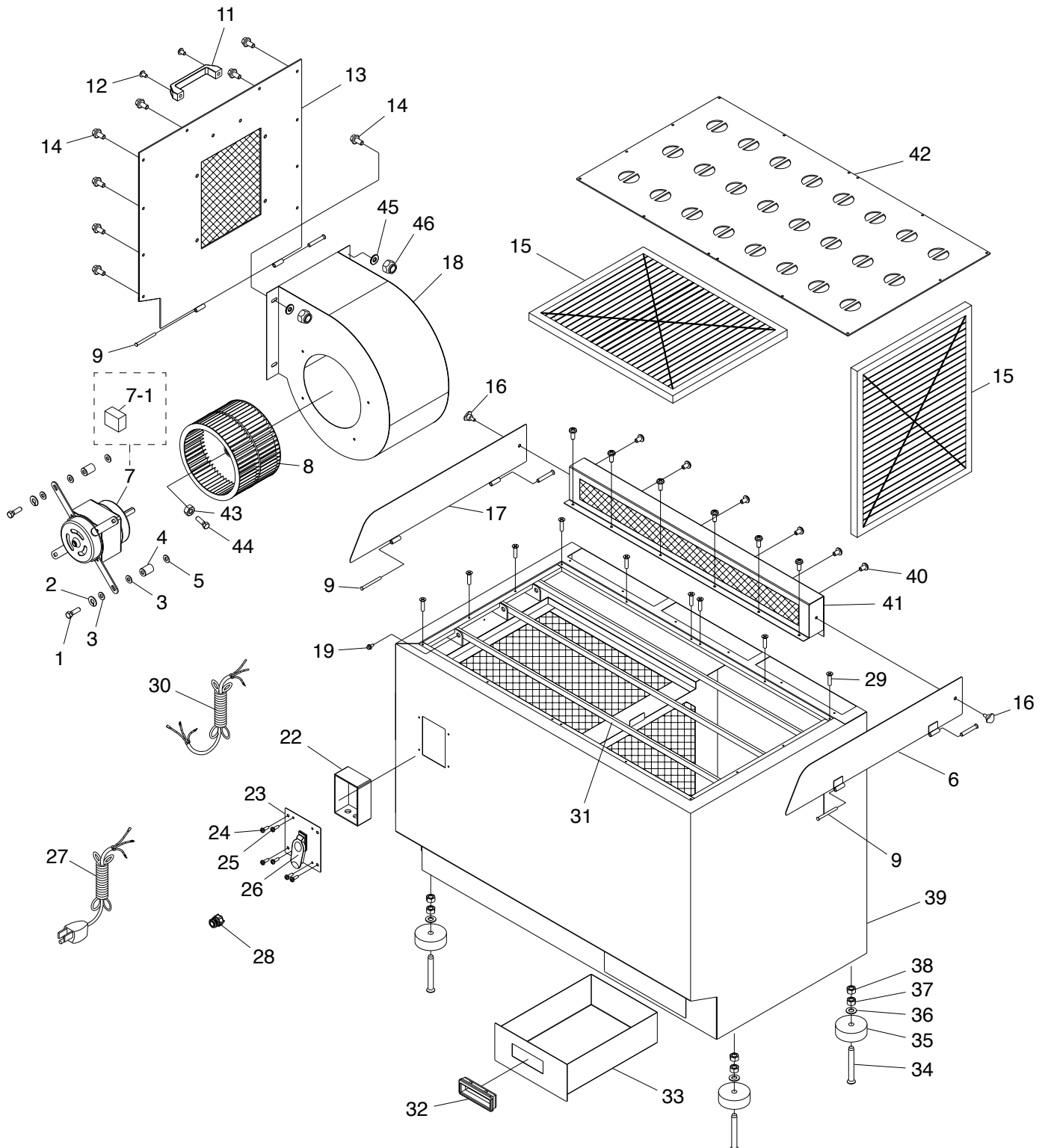
Figure 22. Motor wiring.



# 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](http://www.grizzly.com/parts)** to check for availability.

## Main



# Main Parts List

| REF | PART #       | DESCRIPTION                          |
|-----|--------------|--------------------------------------|
| 1   | PT34359001   | HEX BOLT 1/4-20 X 1-1/4              |
| 2   | PT34359002   | LOCK WASHER 1/4                      |
| 3   | PT34359003   | FLAT WASHER 1/4                      |
| 4   | PT34359004   | SPACER 6.8ID X 18.5OD X 5.3L         |
| 5   | PT34359005   | FLAT WASHER 1/4                      |
| 6   | PT34359006   | PANEL, RIGHT                         |
| 7   | PT34359007   | MOTOR 3/4HP 110V 1-PH                |
| 7-1 | PT34359007-1 | R CAPACITOR 30M 250V 1-1/2" X 2-1/2" |
| 8   | PT34359008   | IMPELLER                             |
| 9   | PT34359009   | HINGE PIN 6 X 66MM                   |
| 11  | PT34359011   | COVER HANDLE                         |
| 12  | PT34359012   | PHLP HD SCR 1/4-20 X 5/8             |
| 13  | PT34359013   | MOTOR ACCESS DOOR                    |
| 14  | PT34359014   | FLANGE BOLT 5/16-18 X 3/4            |
| 15  | PT34359015   | FILTER 20" X 16" X 1" 200 MICRON     |
| 16  | PT34359016   | KNOB BOLT 1/4-20 X 3/4               |
| 17  | PT34359017   | PANEL, LEFT                          |
| 18  | PT34359018   | BLOWER HOUSING                       |
| 19  | PT34359019   | FLANGE BOLT 5/16-18 X 1/2            |
| 22  | PT34359022   | SWITCH BOX                           |
| 23  | PT34359023   | SWITCH PLATE                         |
| 24  | PT34359024   | PHLP HD SCR 10-24 X 1/2              |

| REF | PART #     | DESCRIPTION                        |
|-----|------------|------------------------------------|
| 25  | PT34359025 | TAP SCREW M4 X 16                  |
| 26  | PT34359026 | SAFETY PADDLE SWITCH JIHONG J9301A |
| 27  | PT34359027 | POWER CORD 14G 3W 72" 5-15P        |
| 28  | PT34359028 | STRAIN RELIEF M16-1.5              |
| 29  | PT34359029 | FLAT HD SCR 10-24 X 3/8            |
| 30  | PT34359030 | MOTOR CORD 16G 3W 18"              |
| 31  | PT34359031 | SUPPORT BAR                        |
| 32  | PT34359032 | DRAWER HANDLE                      |
| 33  | PT34359033 | DRAWER                             |
| 34  | PT34359034 | FLAT HD CAP SCR 1/2-13 X 4         |
| 35  | PT34359035 | FOOT PAD, RUBBER                   |
| 36  | PT34359036 | FENDER WASHER 1/2                  |
| 37  | PT34359037 | LOCK NUT 1/2-13                    |
| 38  | PT34359038 | HEX NUT 1/2-13                     |
| 39  | PT34359039 | MAIN HOUSING                       |
| 40  | PT34359040 | PHLP HD SCR 10-24 X 3/8            |
| 41  | PT34359041 | SUCTION PANEL                      |
| 42  | PT34359042 | TOP SUCTION PLATE                  |
| 43  | PT34359043 | HEX NUT M8-1.25                    |
| 44  | PT34359044 | HEX BOLT M8-1.25 X 20              |
| 45  | PT34359045 | FENDER WASHER 5/16                 |
| 46  | PT34359046 | LOCK NUT 5/16-18                   |





# Labels & Cosmetics

101

**Grizzly Industrial** MODEL T34359  
20" X 37" METALWORKING  
DOWNDRAFT TABLE

**Specifications**

Motor: 3/4 HP, 110V, 1-Ph, 60 Hz  
Full-Load Current Rating: 5A  
Air Suction Capacity: 1850 CFM  
Filter Size: 20" x 16" x 1"  
Filter: 200 Microns @ 90%  
Impeller: 5-1/2" x 7" Squirrel Cage  
Table Load Capacity: 440 lbs.  
Weight: 220 lbs.

**WARNING!**

To reduce risk of serious personal injury when using this machine:

1. Read and understand owner's manual before operating.
2. Always wear approved eye protection and respirator.
3. Only plug power cord into a grounded outlet.
4. Never use machine to collect combustible or explosive metal dust (such as aluminum or magnesium), wood chips, sawdust, or other ordinary combustible material!
5. Always disconnect power before servicing or cleaning, and make sure impeller stops before opening door or removing covers.
6. Do not exceed maximum weight capacity.
7. Handle used filters carefully, and follow EPA guidelines for disposal.
8. Keep hands, long hair, and loose clothing away from inlet.
9. Do not modify machine, or use without filters in place.
10. Always use a brush or vacuum to clear metal chips or dust; do not use your hands, rags, or compressed air.
11. Inspect compartments after use for fire hazards and smoldering combustibles.
12. Never leave machine unattended during operation.
13. Do not expose to rain or use in wet locations.
14. Do not use if cord, plug, or any other electrical equipment becomes damaged—promptly repair!
15. Do not operate under influence of drugs or alcohol, or if tired.
16. Prevent unauthorized use by children or untrained users; restrict access or disable machine when unattended.

Date: \_\_\_\_\_  
SN: \_\_\_\_\_

MANUAL  
Grizzly Industrial  
www.grizzly.com

Mfg. for Grizzly in Taiwan

102

**WARNING!**

EYE/LUNG INJURY  
HAZARD!  
Always wear safety glasses and a respirator when using this machine.

103

**T34359**

104

105

110

**WARNING!**

To reduce risk of death or serious injury, read manual BEFORE using machine.  
To get a new manual, call (800) 523-4777 or go to [www.grizzly.com](http://www.grizzly.com).

109

**WARNING!**

INJURY/SHOCK  
HAZARD!  
Disconnect power before adjustments, maintenance, or service.

108



107

**grizzly.com**

106



| REF | PART #     | DESCRIPTION                   |
|-----|------------|-------------------------------|
| 101 | PT34359101 | MACHINE ID LABEL              |
| 102 | PT34359102 | GLASSES/RESPIRATOR LABEL      |
| 103 | PT34359103 | MACHINE NUMBER LABEL          |
| 104 | PT34359104 | TOUCH-UP PAINT, GLOSSY BLACK  |
| 105 | PT34359105 | TOUCH-UP PAINT, GRIZZLY GREEN |

| REF | PART #     | DESCRIPTION             |
|-----|------------|-------------------------|
| 106 | PT34359106 | GRIZZLY NAMEPLATE-LARGE |
| 107 | PT34359107 | GRIZZLY.COM LABEL       |
| 108 | PT34359108 | ELECTRICITY LABEL       |
| 109 | PT34359109 | DISCONNECT 110V LABEL   |
| 110 | PT34359110 | READ MANUAL LABEL       |

## **!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](http://www.grizzly.com).



# WARRANTY & RETURNS

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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.

For further information about the warranty, visit <https://www.grizzly.com/forms/warranty> or scan the QR code below to be automatically directed to our warranty page.





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