MODEL G0442/G0601
5 HP CYCLONE DUST COLLECTOR
OWNER'S MANUAL
(For models manufactured since 07/20)

C US
201825

#TS12622 PRINTED IN TAIWAN V4.06.25

⚠ WARNING!

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

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

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

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

⚠ WARNING!

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

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

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

Table of Contents

INTRODUCTION

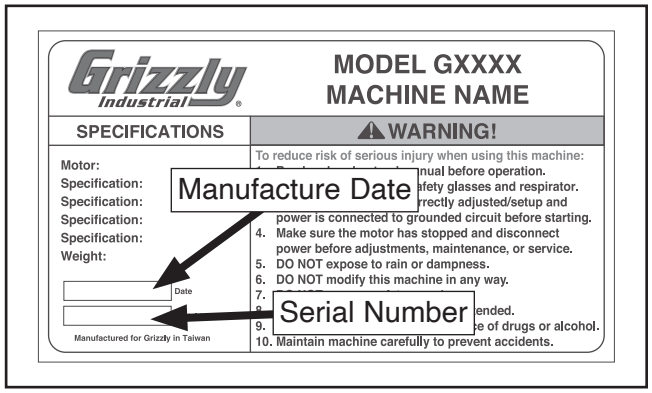
Manual Accuracy

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.



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

Machine Description

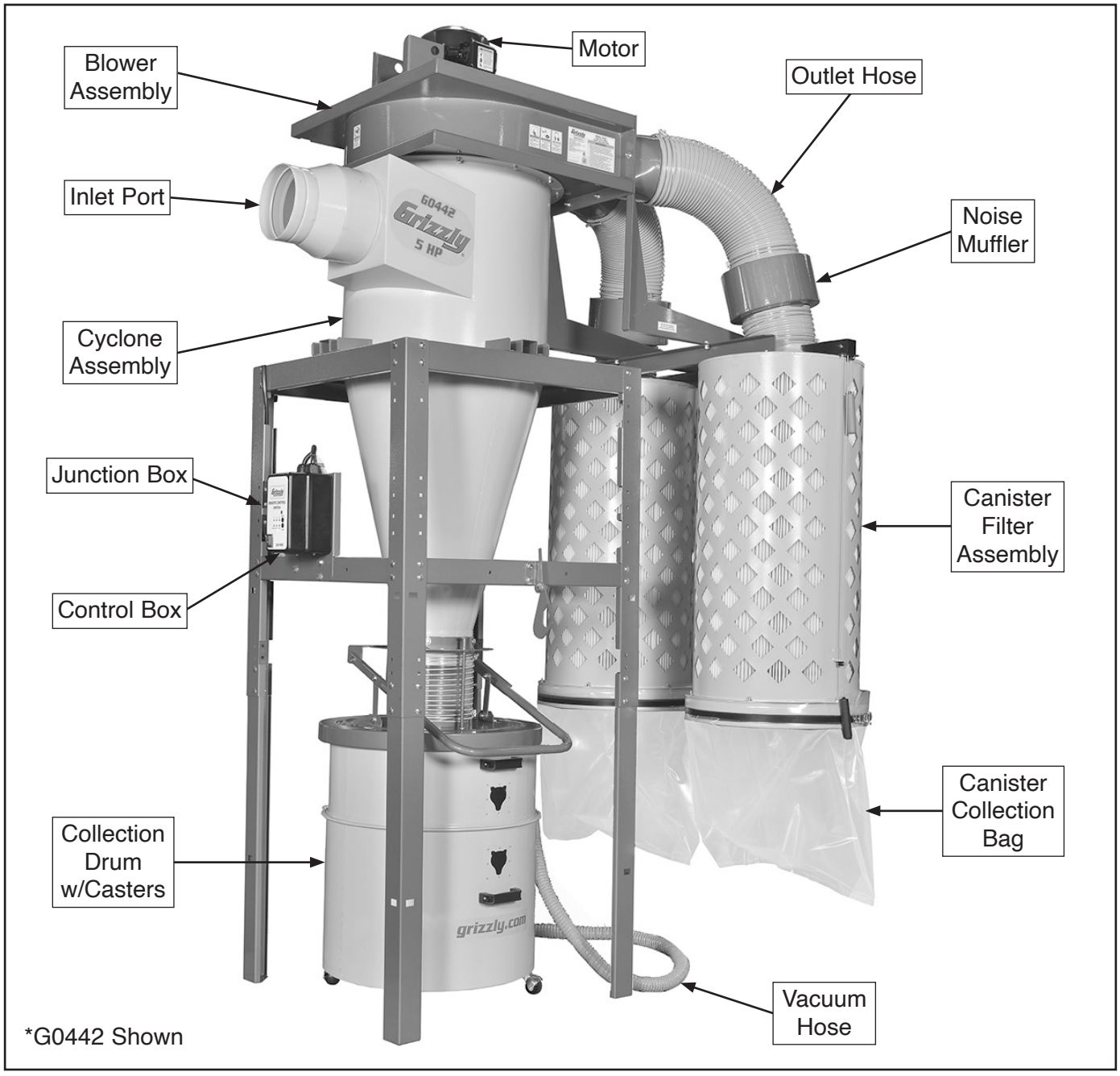
The Model G0442/G0601 is a 2-stage cyclone wood dust collector capable of collecting dust from multiple machines running simultaneously.

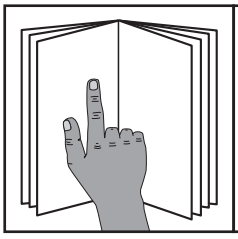
Cyclonic action separates the heavy dust and chips from the fine particles and drops them into the steel collection drum. Any remaining fine dust travels past the impeller and is trapped by the pleated cartridge filter made of spun-bond polyester. With the use of the cable and pulley system on the outside of the filter assembly, the caked dust is forced down into the collection bag.

The machine is controlled directly by the remote magnetic switch mounted to it or by the IR remote controller—each control includes timer options.

Identification

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





⚠WARNING

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

MACHINE DATA SHEET

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

MODEL G0442 5 HP CYCLONE DUST COLLECTOR

Product Dimensions:

Weight..... 578 lbs.
Width (side-to-side) x Depth (front-to-back) x Height..... 66 x 51-1/2 x 114 in.
Footprint (Length x Width)..... 33 x 33 in.

Shipping Dimensions:

Carton #1

Type..... Cardboard Box w/Wood Skids
Content..... Machine
Weight..... 510 lbs.
Length x Width x Height..... 61 x 30 x 40 in.
Must Ship Upright..... Yes

Carton #2

Type..... Cardboard Box
Content..... Canister Filter
Weight..... 67 lbs.
Length x Width x Height..... 49 x 24 x 24 in.
Must Ship Upright..... No

Carton #3

Type..... Cardboard Box
Content..... Canister Filter
Weight..... 67 lbs.
Length x Width x Height..... 49 x 24 x 24 in.
Must Ship Upright..... No

Carton #4

Type..... Cardboard Box
Content..... Stand
Weight..... 84 lbs.
Length x Width x Height..... 41 x 15 x 8 in.
Must Ship Upright..... No

Electrical:

Power Requirement..... 220V, Single-Phase, 60 Hz
Prewired Voltage..... 220V
Full-Load Current Rating..... 22.4A
Minimum Circuit Size..... 40A
Connection Type..... Permanent (Hardwire to Shutoff Switch)
Switch Type..... Remote Control Magnetic Switch w/Overload Protection

Motors:

Main

Horsepower..... 5 HP
Phase..... Single-Phase
Amps..... 22.4A
Speed..... 3450 RPM
Type..... TEFC Capacitor-Start Induction (Class F)
Power Transfer ..... Direct Drive
Bearings..... Shielded & Permanently Lubricated
Centrifugal Switch/Contacts Type..... External

Main Specifications:

Operation

Dust Collector Type	Two-Stage (Cyclone)
Approved Dust Types	Wood
Filter Type	Pleated Cartridge
Airflow Performance	2184 CFM @ 1.9 in. SP
Max Static Pressure (at 0 CFM)	14 in.
Main Inlet Size	10 in.
Inlet Adapter Included	Yes
Number of Adapter Inlets	1
Adapter Inlet Size	8 in.
Machine Collection Capacity At One Time	4
Maximum Material Collection Capacity	7.4 cu. ft.

Filter Information

Filtration Rating	0.2 – 2 Micron
Filter Surface Area	226 sq. ft.

Bag Information

Number of Lower Bags	2
Lower Bag Diameter	19-3/4 in.

Canister Information

Number of Canister Filters	2
Canister Filter Diameter	19-11/16 in.
Canister Filter Length	39-3/8 in.
Collection Drum Size	55 Gallons

Impeller Information

Impeller Type	Radial Fin
Impeller Size	16 in.

Construction

Lower Bag	Clear Plastic
Canister	Spun Bond Polyester
Frame	Steel Sheet Metal (14 ga.)
Impeller	Steel
Paint Type/Finish	Powder Coated
Blower Housing	11 Gauge Steel
Body	14 Gauge Steel
Collection Drum	Steel

Other Specifications:

Country of Origin	Taiwan
Warranty	1 Year
Approximate Assembly & Setup Time	4 Hours
Serial Number Location	ID Label
Sound Rating	83 – 86 dB

MACHINE DATA SHEET

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

MODEL G0601 5 HP 3-PHASE CYCLONE DUST COLLECTOR

Product Dimensions:

Weight..... 569 lbs.
Width (side-to-side) x Depth (front-to-back) x Height..... 66 x 51-1/2 x 114 in.
Footprint (Length x Width)..... 33 x 33 in.

Shipping Dimensions:

Carton #1

Type..... Cardboard Box w/Wood Skids
Content..... Machine
Weight..... 503 lbs.
Length x Width x Height..... 61 x 30 x 40 in.
Must Ship Upright..... Yes

Carton #2

Type..... Cardboard Box
Content..... Canister Filter
Weight..... 67 lbs.
Length x Width x Height..... 49 x 24 x 24 in.
Must Ship Upright..... No

Carton #3

Type..... Cardboard Box
Content..... Canister Filter
Weight..... 67 lbs.
Length x Width x Height..... 49 x 24 x 24 in.
Must Ship Upright..... No

Carton #4

Type..... Cardboard Box
Content..... Stand
Weight..... 84 lbs.
Length x Width x Height..... 41 x 15 x 8 in.
Must Ship Upright..... No

Electrical:

Power Requirement..... 220V or 440V, 3-Phase, 60 Hz
Prewired Voltage..... 220V
Full-Load Current Rating..... 13.7A at 220V, 6.9A at 440V
Minimum Circuit Size..... 30A at 220V, 15A at 440V
Connection Type..... Permanent (Hardwire to Shutoff Switch)
Switch Type..... Remote Control Magnetic Switch w/Overload Protection
Voltage Conversion Kit..... G440VG0601 for 440V
Recommended Phase Converter..... Rotary Only (Not Approved for Static)

Motors:

Main

Horsepower	5 HP
Phase	3-Phase
Amps	13.7A/6.9A
Speed	3450 RPM
Type	TEFC Induction (Class F)
Power Transfer	Direct Drive
Bearings	Shielded & Permanently Lubricated
Centrifugal Switch/Contacts Type	N/A

Main Specifications:

Operation

Dust Collector Type	Two-Stage (Cyclone)
Approved Dust Types	Wood
Filter Type	Pleated Cartridge
Airflow Performance	2184 CFM @ 1.9 in. SP
Max Static Pressure (at 0 CFM)	14 in.
Main Inlet Size	10 in.
Inlet Adapter Included	Yes
Number of Adapter Inlets	1
Adapter Inlet Size	8 in.
Machine Collection Capacity At One Time	4
Maximum Material Collection Capacity	7.4 cu. ft.

Filter Information

Filtration Rating	0.2 – 2 Micron
Filter Surface Area	226 sq. ft.

Bag Information

Number of Lower Bags	2
Lower Bag Diameter	19-3/4 in.

Canister Information

Number of Canister Filters	2
Canister Filter Diameter	19-11/16 in.
Canister Filter Length	39-3/8 in.
Collection Drum Size	55 Gallons

Impeller Information

Impeller Type	Radial Fin
Impeller Size	16 in.

Construction

Lower Bag	Clear Plastic
Canister	Spun Bond Polyester
Frame	Steel Sheet Metal (14 ga.)
Impeller	Steel
Paint Type/Finish	Powder Coated
Blower Housing	11 Gauge Steel
Body	14 Gauge Steel
Collection Drum	Steel

Other Specifications:

Country of Origin ..... Taiwan
Warranty ..... 1 Year
Approximate Assembly & Setup Time ..... 3 Hours
Serial Number Location ..... ID Label
Sound Rating ..... 83 – 86 dB
ISO 9001 Factory ..... Yes
Certified by a Nationally Recognized Testing Laboratory (NRTL) ..... Yes

Features:

BIA Certified Cartridge Filter
Blower and Barrel Rotate 360 degrees for Inlet and Outlet Positioning
Casters Mounted on Collection Drum for Easy Moving
Clear Disposable Plastic Collection Bags
Gentle Brush Cleaning Mechanism Inside Cartridge Filter
Ramped Inlet Maximizes Dust Flow into Collection Drums
Reinforced Motor Mount
Remote Controlled Magnetic Switch
Rugged Steel Stand
Standard Equipment Mufflers Reduce Noise Level without Reducing Air Flow
Powerful Class "F" Motor

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.

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

Safety Instructions for Machinery

⚠WARNING

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

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

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

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

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

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

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

⚠WARNING

WEARING PROPER APPAREL. Do not wear 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 Dust Collectors

⚠WARNING

Long-term respiratory damage can occur from using dust collectors without proper use of a respirator. Fire or explosions can result in smoke inhalation, serious burns, or death—if machine is used to collect incorrect materials, is operated near potential explosion sources, or ducting is improperly grounded. Entanglement, amputation, or death can occur if hair, clothing, or fingers are pulled into the inlet. To reduce the risk of these hazards, operator and bystanders MUST completely heed the hazards and warnings below.

INTENDED USE. Collecting the wrong materials can result in serious inhalation hazards, fire, explosions, or machine damage. This machine is ONLY designed to collect wood dust and chips from woodworking machines. DO NOT use it to collect silica, polyurethane, toxic fumes, metal dust or shavings, lead paint, drywall, asbestos, biohazards, explosive dusts, flammable or combustible liquids or fumes, nor burning or smoking material.

WEAR A RESPIRATOR. Fine dust that is too small to be caught in filter will be blown into ambient air. Always wear a NIOSH-approved respirator during operation and for a short time after to reduce your risk of permanent respiratory damage. Never collect dust from any hazardous material.

IMPELLER HAZARDS. To reduce risk of entanglement or contact with impeller, DO NOT place hands, hair, clothing, or tools in or near open dust collection inlet during operation, and keep small animals and children away. The powerful suction could easily pull them into impeller.

HAZARDOUS DUST. Dust exposure 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.

EMPTYING DUST. When emptying bag or drum, wear respirator and safety glasses. Empty dust away from ignition sources and into approved container.

OPERATING LOCATION. To reduce respiratory exposure to fine dust, locate permanently installed dust collectors away from working area or in another room. DO NOT place dust collector where it can be exposed to rain or moisture, which creates a shock hazard and will reduce life of machine.

POWER DISCONNECT. Turn machine ***OFF***, disconnect from power supply, and allow impeller to completely stop before leaving machine unattended, or doing any maintenance or service.

REGULAR CLEANING. To reduce risk of starting a fire, regularly check/empty collection bags or drum to avoid buildup of fine dust, which can increase risk of fire. Regularly clean surrounding area where machine is operated—excessive dust buildup on overhead lights, heaters, electrical panels, or other heat sources will increase risk of fire.

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

AVOIDING SPARKS. To reduce risk of fire, avoid collecting any metal objects or stones. These can possibly produce sparks when they strike impeller, which can smolder in wood dust for a long time before a fire is detected. If you accidentally cut into wood containing metal, immediately turn ***OFF*** dust collector, disconnect from power, and wait for impeller to stop. Then empty bag or drum into approved airtight metal container.

FIRE SUPPRESSION. Only operate dust collector in locations that contain fire suppression system or have fire extinguisher nearby.

STATIC ELECTRICITY. To reduce risk of fire or explosions caused by sparks from static electricity, ground all ducting using grounding wire.

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

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.

⚠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.

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.

G0442 Current Rating ..... 22.4 Amps

G0601 Current Rating at 220V ..... 13.7 Amps
G0601 Current Rating at 440V ..... 6.9 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.

Circuit Requirements

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.*

G0442 Circuit Requirements for 220V

The Model G0442 is prewired to operate on a 220V power supply circuit that has a verified ground and meets the following requirements:

Nominal Voltage 220V
Cycle ..... 60 Hz
Phase ..... Single-Phase
Circuit Rating ..... 40 Amps
Connection ..... Hardwire with Locking Switch

G0601 Circuit Requirements for 220V

The Model G0601 is prewired to operate on a 220V power supply circuit that has a verified ground and meets the following requirements:

Nominal Voltage 220V
Cycle .....60 Hz
Phase 3-Phase
Circuit Rating ..... Time Delay 30 Amps
Connection.....Hardwire with Locking Switch

G0601 Circuit Requirements for 440V

The Model G0601 can be converted to operate on a 440V power supply. **G0601 440V Conversion** instructions are provided on **Page 13**. The intended 440 circuit must have a verified ground and meet the requirements that follow:

Nominal Voltage 440V
Cycle .....60 Hz
Phase 3-Phase
Rated Size .....Time Delay 20 Amps
Connection.....Hardwire with Locking Switch

Connection Type

A permanently connected (hardwired) power supply is typically installed with wires running through mounted and secured conduit. A disconnecting means, such as a locking switch (see following figure), must be provided to allow the machine to be disconnected (isolated) from the power supply when required. This installation must be performed by an electrician in accordance with all applicable electrical codes and ordinances.

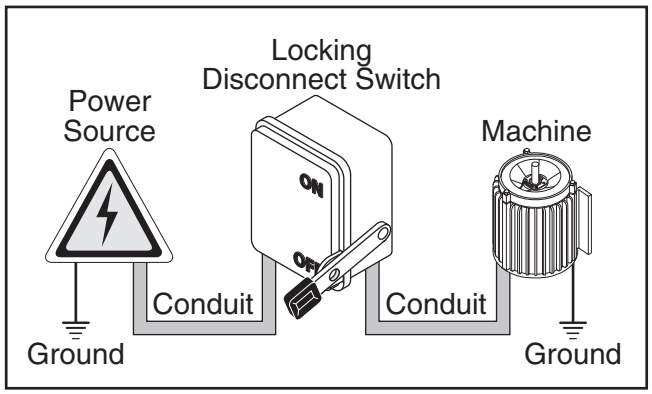


Figure 1. Typical setup of a permanently connected machine.

Grounding Instructions

In the event of a malfunction or breakdown, grounding provides a path of least resistance for electrical current to reduce the risk of electric shock. A permanently connected machine must be connected to a grounded metal permanent wiring system; or to a system having an equipment-grounding conductor. All grounds must be verified and rated for the electrical requirements of the machine. Improper grounding can increase the risk of electric shock!

⚠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.

Extension Cords

Since this machine must be permanently connected to the power supply, an extension cord cannot be used.

G0601 440V Conversion

The Model G0601 can be converted for 440V operation. This conversion job consists of disconnecting the machine from the power source, replacing the control box assembly and motor cord, and rewiring the motor for 440V operation.

The necessary conversion kit (P0601003-1V2) for this procedure can be purchased by calling Grizzly Customer Service at (800) 523-4777.

All wiring changes must be inspected by a qualified electrician before the machine is connected to the power source. If you need help at any time during this procedure, call Grizzly Tech Support at (570) 546-9663.

To convert Model G0601 for 440V operation:

1. DISCONNECT MACHINE FROM POWER!

2. Disconnect existing incoming power and 300V motor wires from the control box (use illustration in **Figure 2** for a general reference), then replace 220V control box with 440V control box. You can also refer to the **G0601 Wiring Diagrams** on **Page 53–53** for more complete wiring illustrations.

3. Connect four incoming power wires to the control box, as illustrated in **Figure 2**.

4. Connect new 600V motor cord wires to control box, as illustrated in **Figure 2**.

5. Disconnect 300V motor cord from motor, then rewire motor as shown inside motor junction cover and attach new 600V motor cord.

Note: If the diagram included on the motor conflicts with the one in this manual, the motor may have changed since the manual was printed. Use the diagram provided on the motor.

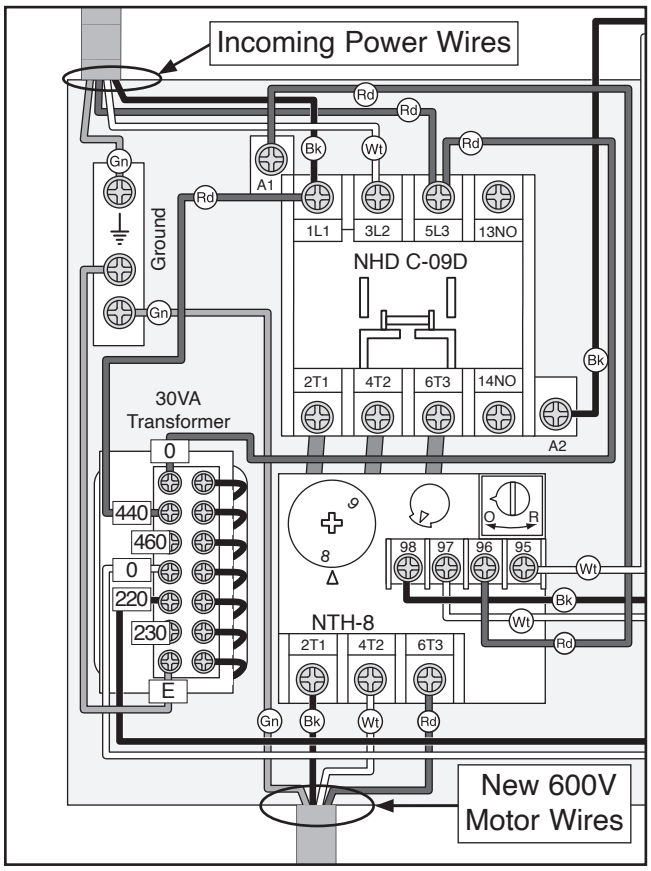


Figure 2. G0601 440V control box wiring.

Correcting Phase Polarity (G0601 Only)

This subsection is only provided for troubleshooting. If you discover during the test run that the machine will not operate, or that the impeller spins backward, the power connections may be wired out-of-phase. Without the proper test equipment to determine the polarity of the power source legs, wiring machinery to 3-phase power may require trial-and-error. Correcting phase polarity is simply a matter of reversing the positions where two of the incoming power source wires are connected inside the control box.

NOTICE

If this machine is wired out-of-phase, the motor and impeller will spin in the wrong direction. The efficiency of the dust collector will be greatly reduced and will not provide the rated CFM. You must make sure the motor is spinning in the correct direction before placing the machine into full operation. Perform Step 10 of the test run on Page 29 to make sure the machine is correctly wired.

To correct phase polarity:

1. DISCONNECT MACHINE FROM POWER!

2. Open the control box and swap the connections of any two incoming hot wires from the power source (see **Figure 3**).

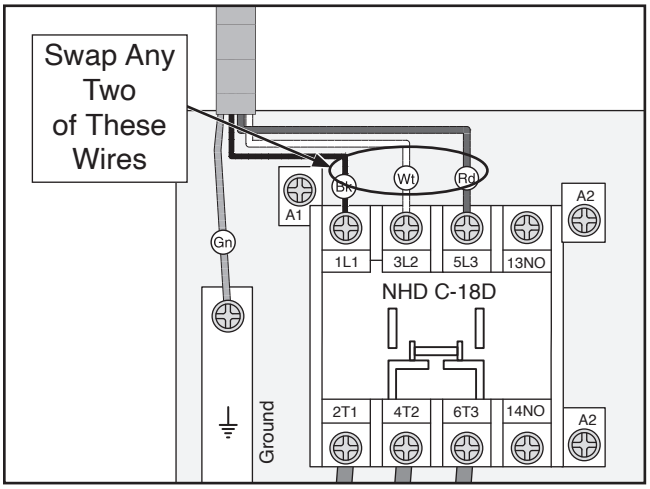


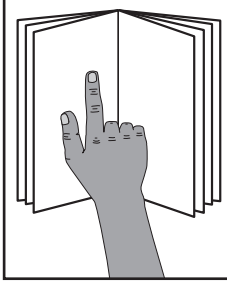
Figure 3. Wire connections to swap to correct phase polarity.

3. Secure the control box cover, then re-connect the machine to power.

4. Perform **Step 10** of the **Test Run** on **Page 32** to confirm that the power connections are correct.

   — If the motor and impeller are still rotating in the wrong direction, contact our Tech Support at (570) 546-9663 for assistance.

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

Description	Qty
• Safety Glasses (For Each Person)	1
• Forklift (Rated for at least 600lbs.)	1
• Additional People	1
• Wrench/Socket ½"	2
• Wrench/Socket 9/16"	2
• Square	1
• Phillips Head Screwdriver #2	1
• Duct Tape	As Needed

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.

Collector Box Contents (Figure 4–5): **Qty**

A. Intake Cylinder 1
B. Cyclone Funnel 1
C. Intake Barrel 1
D. Collection Bags
—Canister Filter 2
—Collection Drum 2
E. Gray Flexible Hoses 8" x 25" 2
F. Motor/Blower Housing Assembly 1
G. Upper Collection Drum & Clamp Assy 1
H. Noise Mufflers 2
I. Gray Flexible Hoses 8" x 5" 2
J. Collection Drum 1
K. Clear Flexible Hose 9" x 10" 1
L. Hose Clamps 9" 2
M. Collection Drum Lid 1
N. Filter Cross Braces 2
O. Outlet Port 1
P. Filter L-Braces 2
Q. Foam Tape 3 x 6 x 1800mm 2
R. Hose Clamps 8" 9
S. Reducer 1
T. Hardware Box
—Foam Tape 3 x 15 x 700mm 8
U. Hardware Bag
—Hex Bolts 3/8"-16 x 11" 2
—Hex Bolts 3/8"-16 x 1" 10
—Hex Bolts 5/16"-18 x 1" 30
—Hex Bolts 3/8"-16 x 3/4" 7
—Hex Bolts 5/16"-18 x 3/4" 28
—Phillips Head Screws 5/16"-18 x 3/4" 4
—Sheet Metal Screws M4 x 12 3
—Flat Washers 3/8" (Thin) 8
—Flat Washers 3/8" 38
—Flat Washers 5/16" 80
—Lock Washers 3/8" 4
—Fender Washers 5/16" 12
—Lock Nuts 3/8"-16 12
—Lock Nuts 5/16"-18 8
—Hex Nuts 3/8"-16 11
—Hex Nuts 5/16"-18 22
—Acorn Nuts 5/16"-18 4
V. Hardware Box
—Casters 4
—Hex Nuts 3/8"-16 4
—Lock Washers 3/8" 4
—Flat Washers 3/8" 8
W. Barrel Gaskets 2
X. Outlet Gasket 1
Y. Brace Gaskets 4
Z. Drum Lid PVC Rubber Seal 2M 1

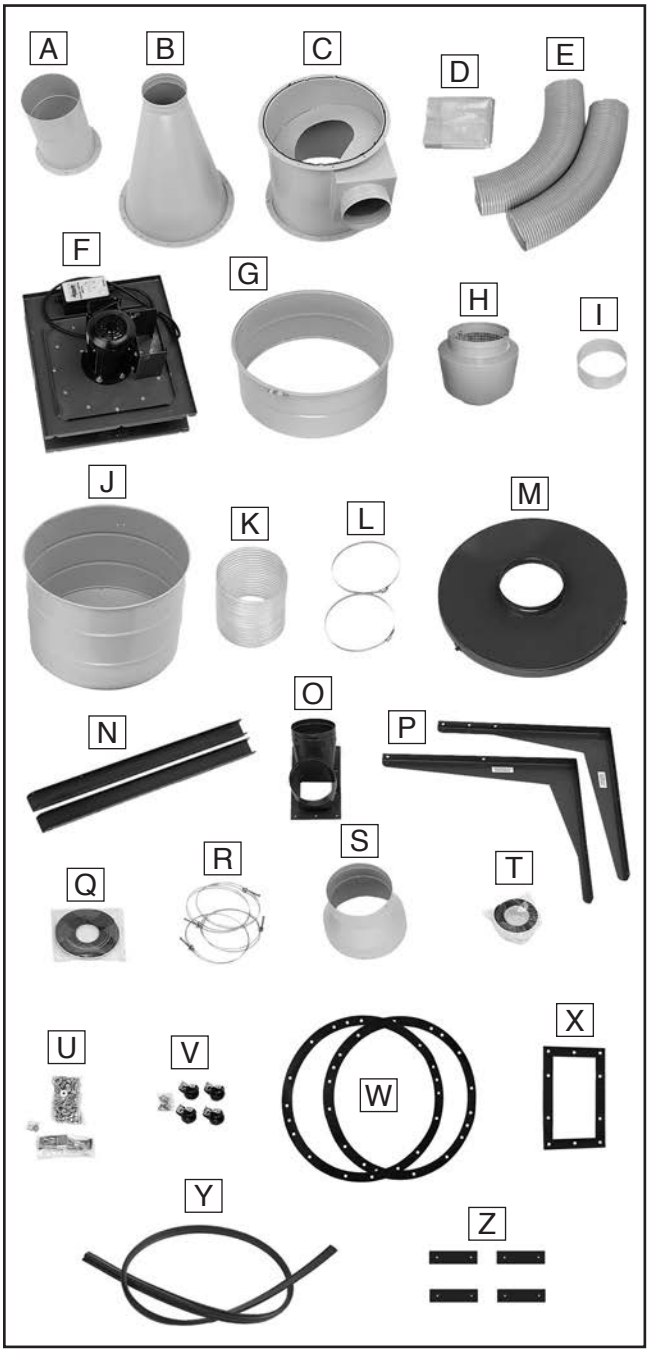


Figure 4. Contents of collector box.

Collector Box Contents Cont.:	Qty
AA. Remote Control	1
AB. Vacuum Hose Clamps 1¼"	2
AC. Vacuum Hose Clips	2
AD. Vacuum Hose 1¼" x 98"	1
AE. Collection Drum Vacuum Ring	1
AF. Cyclone Vacuum Port	1
AG. Hose Clamp 10½"	1
AH. Collection Lid Handle	1
AI. Drum Lid Connecting Plates	2
AJ. Cyclone Funnel Adapter	1
AK. Drum Lid Springs	2
AL. Collection Drum Plastic Handles	2

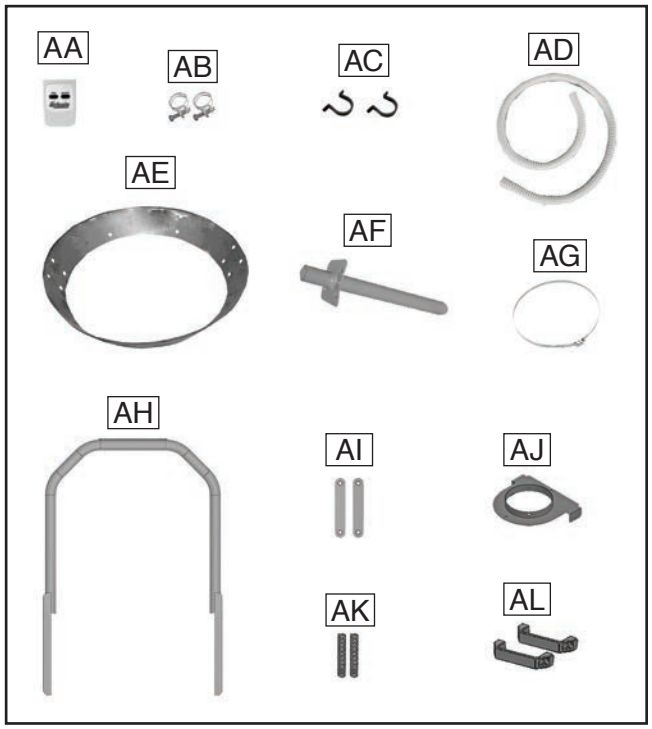


Figure 5. Contents of collector box.

Stand Box Contents (Figure 6):	Qty
AM. Lower Stand Legs	4
AN. Upper Stand Legs	4
AO. Upper Stand Braces	4
AP. Lower Stand Braces	4
AQ. Collector Mounting Brackets	4
AR. Hardware Bags	
—Hex Bolts ⅜"-16 x 1"	3
—Carriage Bolts ⅝"-18 x ¾"	56
—Lock Nuts ⅜"-16	3
—Hex Nuts ⅝"-18	56
—Flat Washers ⅜"	6
—Flat Washers ⅝"	56
AS. Handle Hook Bracket	1
AT. Handle Hook	1

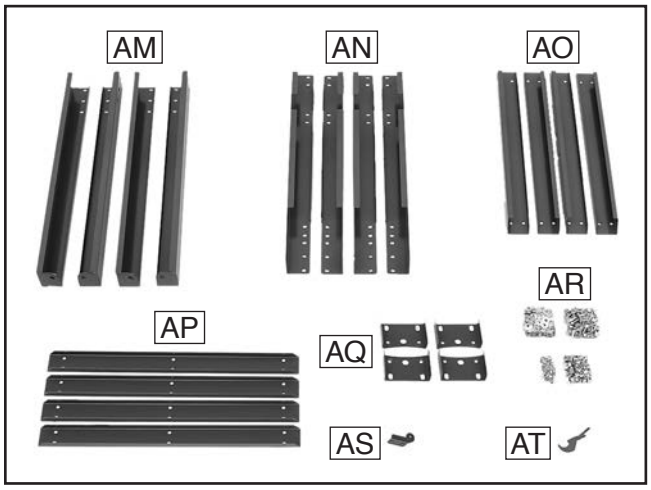


Figure 6. Contents of stand box.

Contents of Filter Boxes (Figure 7):	Qty
AU. Canister Filter Assemblies	2

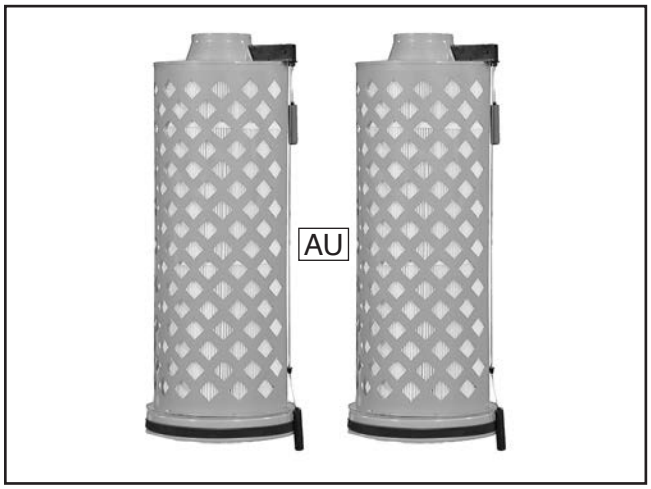


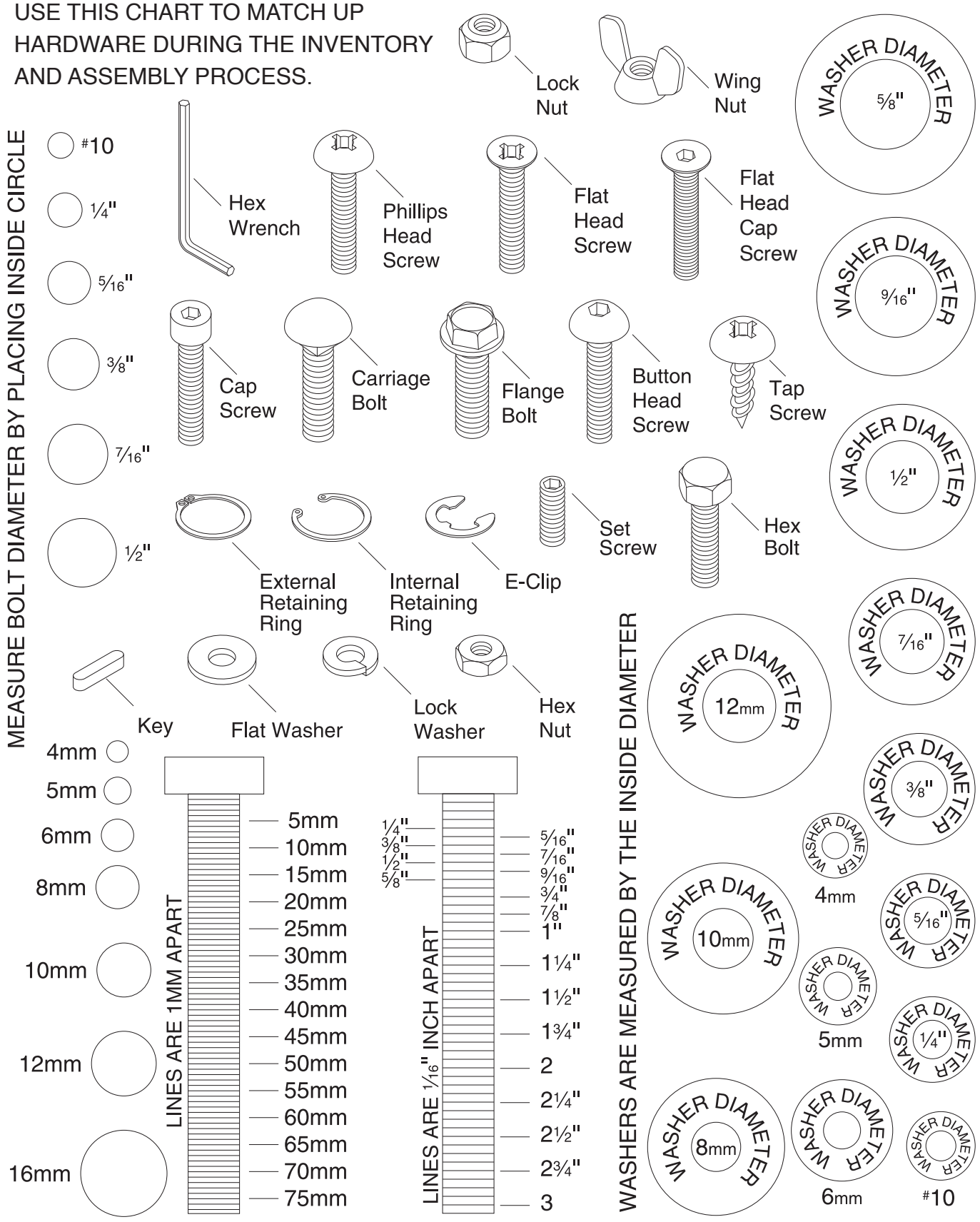
Figure 7. Contents of filter boxes.

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.

Hardware Recognition Chart

USE THIS CHART TO MATCH UP HARDWARE DURING THE INVENTORY AND ASSEMBLY PROCESS.



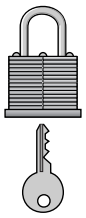
Site Considerations

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.**



⚠CAUTION

Children or untrained people may be seriously injured by this machine. Only install in an access restricted location.

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.

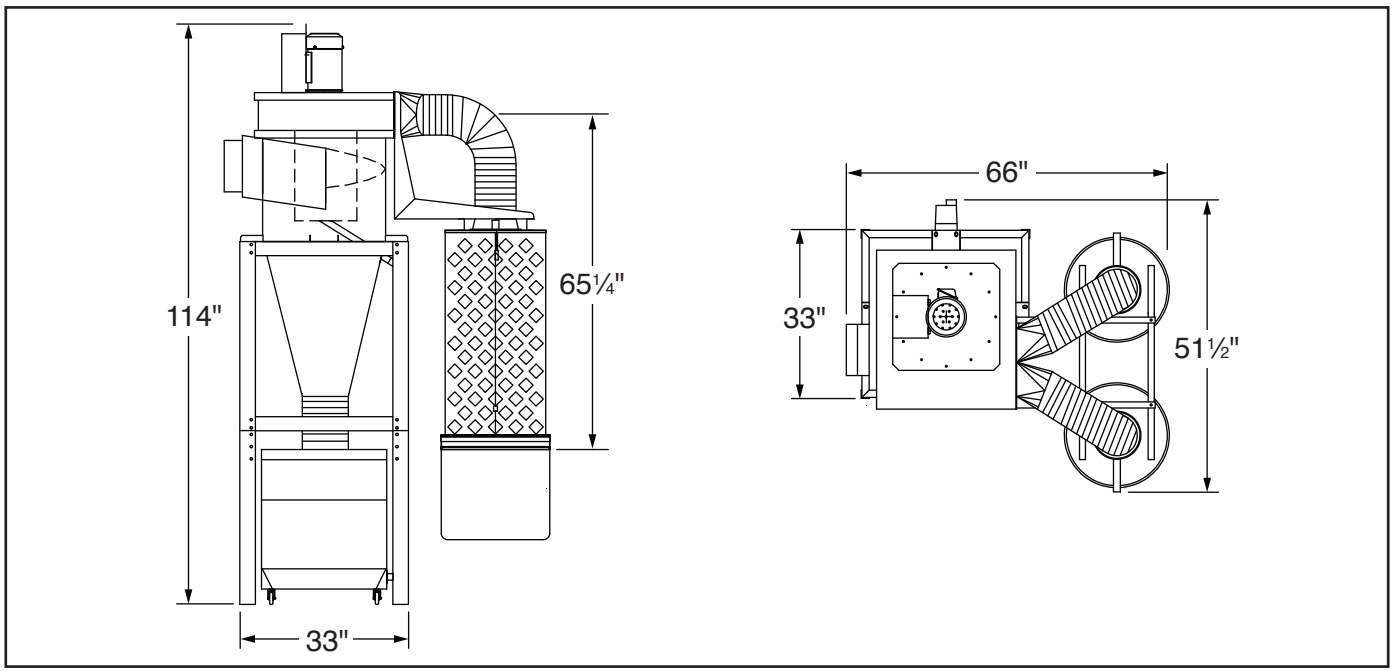


Figure 8. Minimum working clearances.

Mounting to Shop Floor

Since your dust collector will be hardwired to the power source, we strongly recommend securing your machine to the floor. Consult with your electrician to ensure compliance with applicable codes. Because floor materials may vary, floor mounting hardware is not included.

Bolting to Concrete Floors

Lag shield anchors with lag bolts and anchor studs (**Figure 9**) are two popular methods for anchoring an object to a concrete floor. We suggest you research the many options for mounting your machine and choose the one that best fits your specific application.

NOTICE

Anchor studs (see Figure 9) are stronger and more permanent alternatives to lag shield anchors; however, they will stick out of the floor, presenting a tripping hazard if you decide to move your machine.

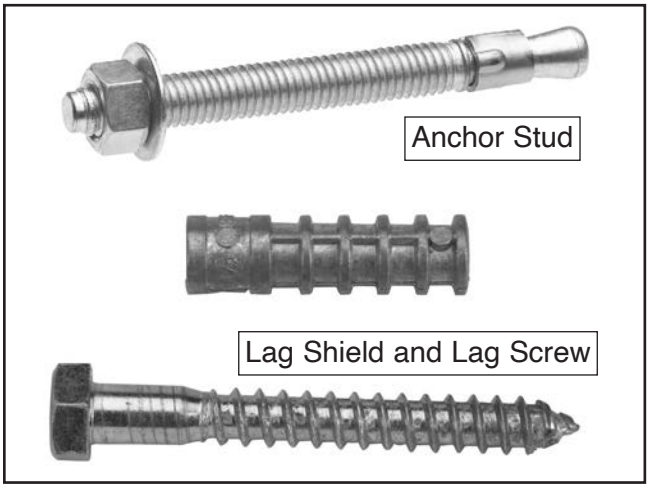
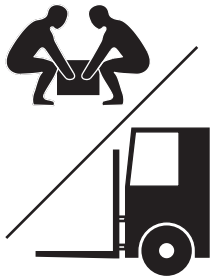


Figure 9. Typical fasteners for mounting to concrete floors.

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).



⚠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.

To assemble machine:

1. Connect upper stand legs with lower stand braces, using (16) 5/16"-18 x 3/4" carriage bolts, 5/16" flat washers, and 5/16"-18 hex nuts (see **Figure 10**).

   Note: *Only hand-tighten hardware.*

   Note: *Be sure to build frame using bolt holes indicated in **Figures 10–11** and **26**. Machine will not fit correctly on frame if wrong holes are used and you will need to rebuild frame.*

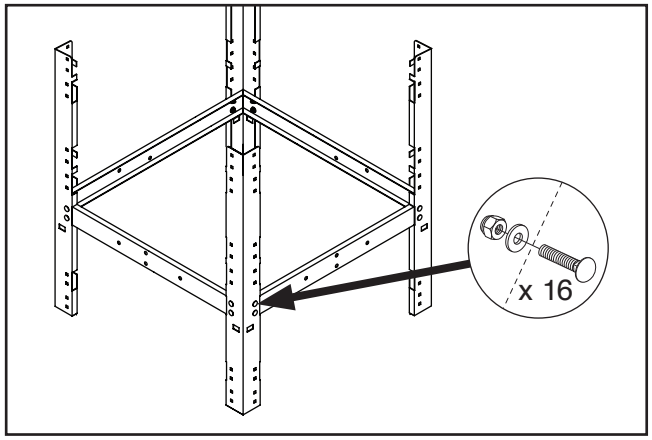


Figure 10. Initial assembly of upper stand legs connected to lower stand braces.

2. Attach upper stand braces to top of assembly from **Step 1**, using (16) 5/16"-18 x 3/4" carriage bolts, 5/16" flat washers, and 5/16"-18 hex nuts (see **Figure 11**).

   Note: *Only hand-tighten hardware.*

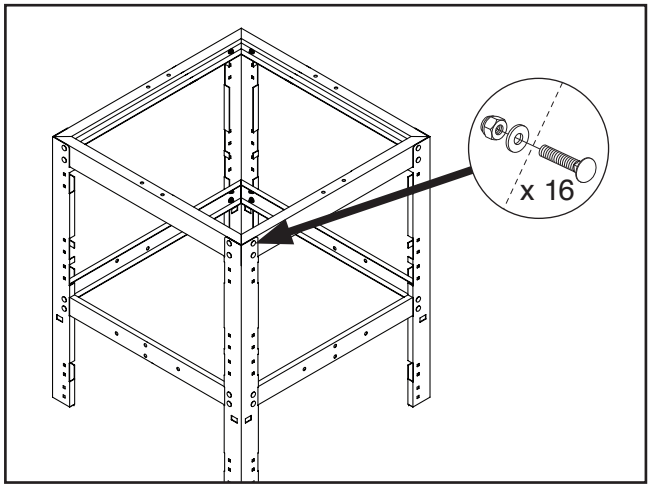


Figure 11. Upper braces attached to stand assembly.

3. Square stand, as shown in **Figure 12**, then tighten all hardware.

Figure 12. Example of squaring stand assembly before tightening stand hardware.

4. Attach cyclone funnel to intake barrel with barrel gasket between them, as shown in **Figure 13**, with (12) 5/16"-18 x 1" hex bolts, (24) 5/16" flat washers, and (12) 5/16"-18 hex nuts.

Note: *At places where you see three holes close together, only use center hole for this step. The two outside holes will be used in the next step.*

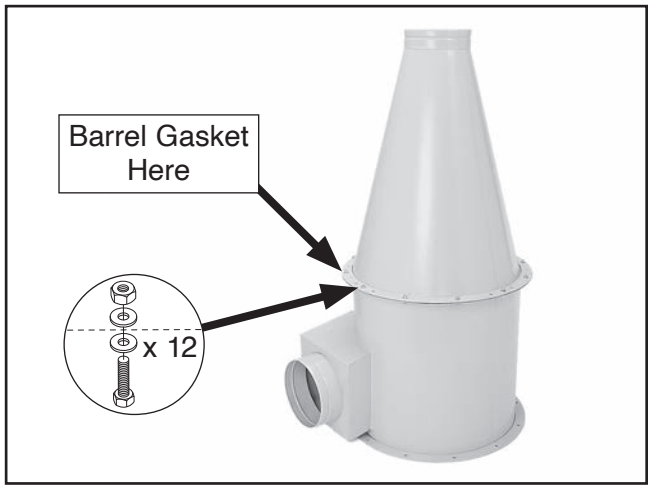


Figure 13. Cyclone funnel attached to intake barrel.

5. Attach collector mounting brackets to intake assembly, as shown in **Figure 14**, using (8) 5/16"-18 x 1" hex bolts, (16) 5/16" flat washers, and (8) 5/16"-18 lock nuts.

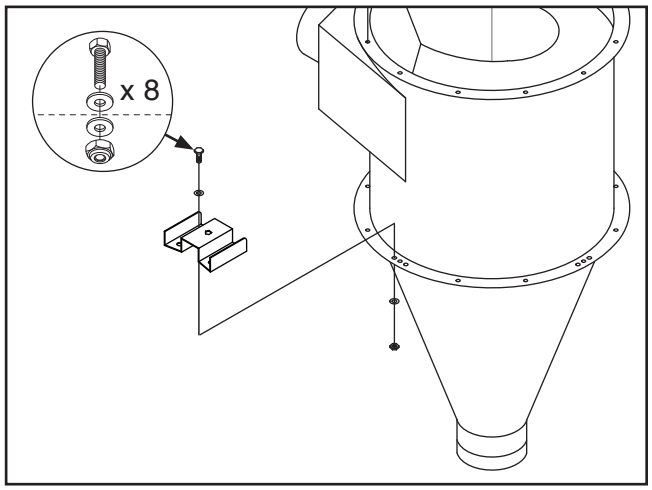


Figure 14. Collector mounting brackets and securing fasteners.

6. Place large piece of cardboard on ground to prevent scraping parts on bare floor during next steps.

7. With help of another person, lay stand assembly on its side on cardboard and slide collector assembly into stand assembly, as shown in **Figure 15**.

8. Fasten collector assembly to stand with (8) 5/16"-18 x 3/4" carriage bolts, 5/16" flat washers, and 5/16"-18 hex nuts, as shown in **Figure 15**.

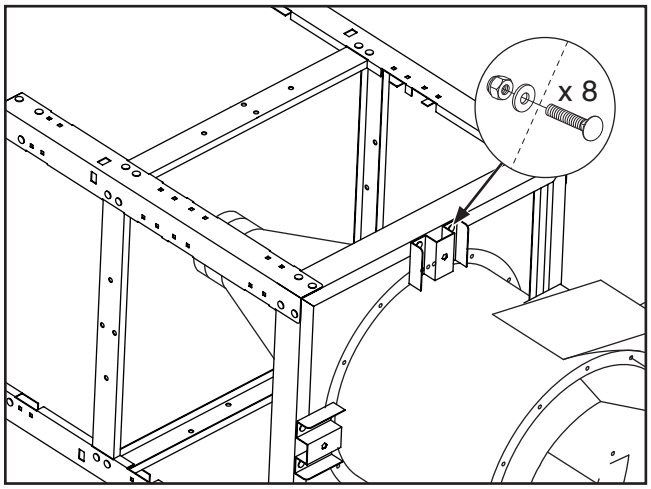


Figure 15. Collector assembly fastened to stand.

9. Apply 3 x 6mm foam tape on intake cylinder, as shown in **Figure 16**.

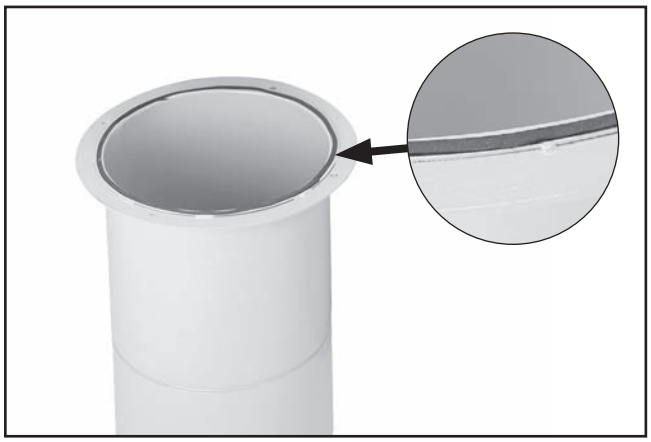


Figure 16. Foam tape attached to the intake cylinder.

10. Lift assembly upright and rotate it so inlet/outlet directions are suitable for your shop.

11. Lift motor/blower housing assembly with forklift and attach intake cylinder to bottom of housing, as shown in **Figure 17**, using (4) 5/16"-18 x 3/4" hex bolts and (4) 5/16" flat washers.

Note: *Because this part of the dust collector is not accessible after assembly is complete, consider using thread locker on bolts that secure intake cylinder to motor/blower housing assembly to ensure that fasteners will not come loose with vibration.*

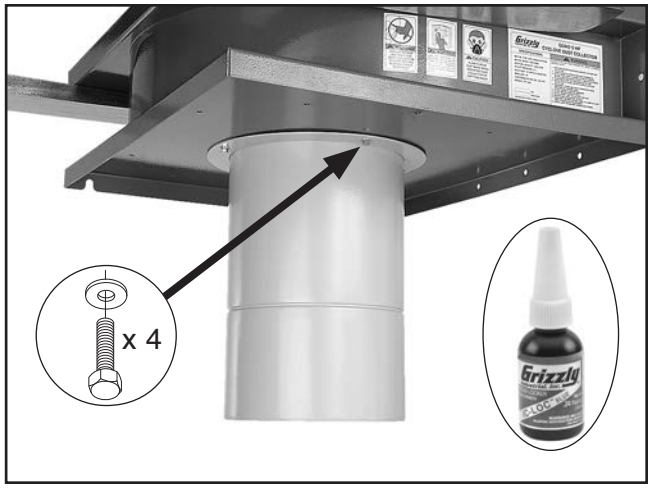


Figure 17. Intake cylinder attached to the bottom of motor/blower housing.

12. Place remaining barrel gasket on top of intake barrel, then carefully lower motor/blower housing assembly on top of it approximately 1" away from intake barrel.

13. Using two punches or Phillips screwdrivers, align mounting holes, as shown in **Figure 18**, and lower assembly onto intake barrel.

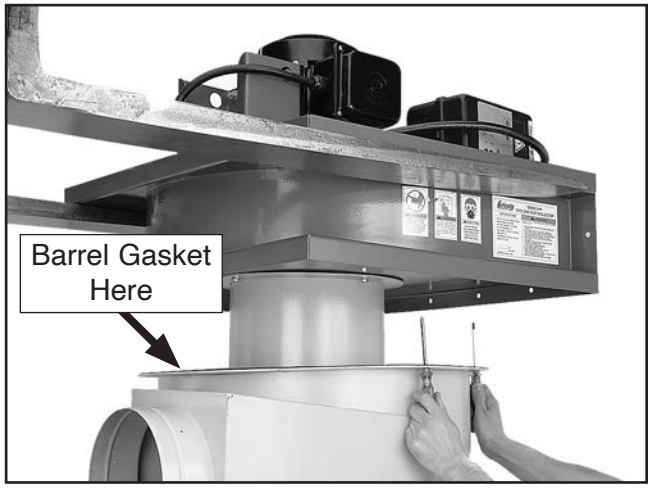


Figure 18. Aligning mounting holes.

Note: *In next step, when installing two bolts above intake port, use duct tape on bottom of your wrench to hold bolts in place, as shown in **Figure 19**. This will enable you to start the bolts more easily.*

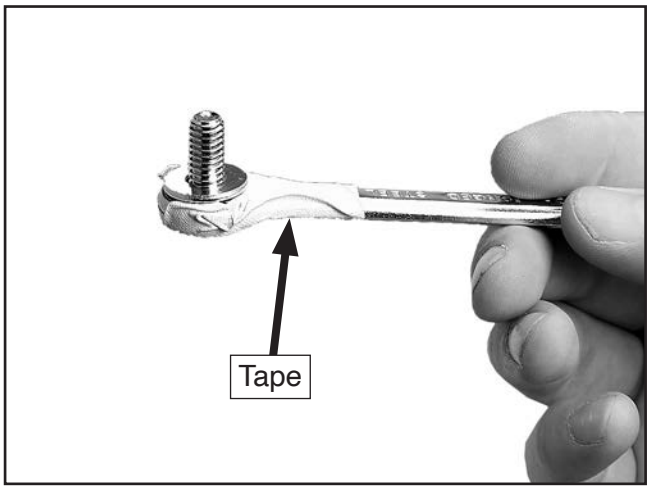


Figure 19. Using tape on wrench in tight spot.

14. Attach assembly to intake barrel, as shown in **Figure 20**, with (12) 5/16"-18 x 3/4" hex bolts and (12) 5/16" flat washers.

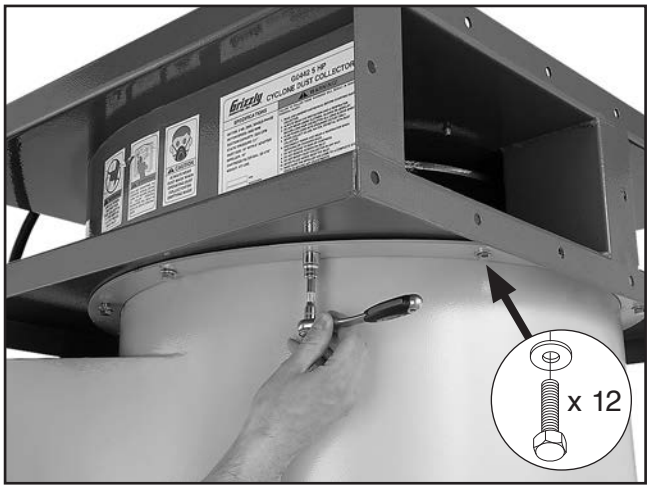


Figure 20. Securing blower on intake barrel.

15. Place outlet gasket between motor/blower housing and outlet port, then attach outlet port and filter L-braces to housing, as shown in **Figure 21**, using (10) 5/16"-18 x 1" hex bolts, (20) 5/16" flat washers, and (10) 5/16"-18 hex nuts.

16. Apply 3 x 15 x 700mm foam tape to outside lip of each outlet port, as shown in **Figure 21**.

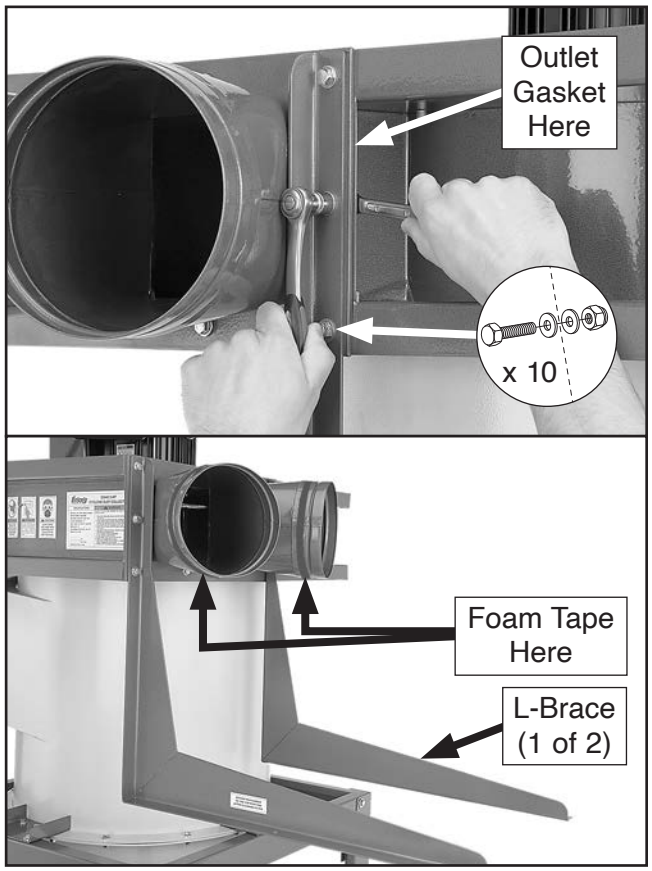


Figure 21. Outlet ports, foam tape, and filter L-braces installed on blower housing.

17. Attach two filter cross braces to L-braces, as shown in **Figure 22**, using (4) 3/8"-16 x 3/4" hex bolts, (8) 3/8" flat washers, and (4) 3/8"-16 hex nuts.

Note: *Before attaching hardware in this step, separate 3/8" flat washers into two piles: one for thin and one for thick. Do not use thin washers until specified in* ***Step 32****.*

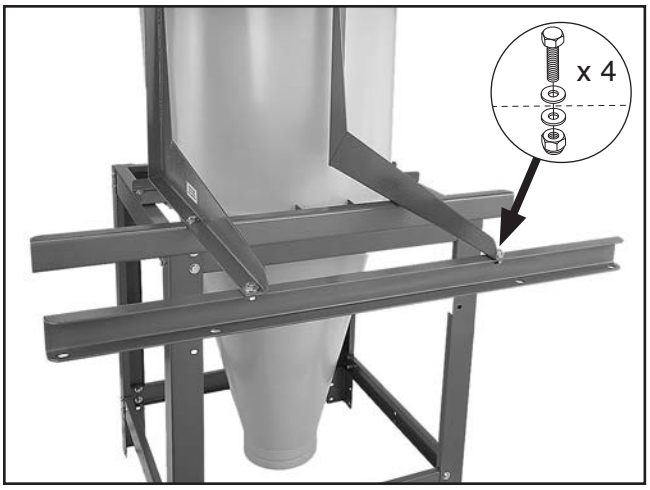


Figure 22. Filter cross braces attached to L-braces.

18. Apply 3 x 6 x 300mm foam tape to mating surface of cyclone vacuum port.

19. Attach vacuum port to cyclone funnel with (4) 5/16"-18 x 3/4" hex bolts and (4) 5/16" flat washers (see **Figure 23**).

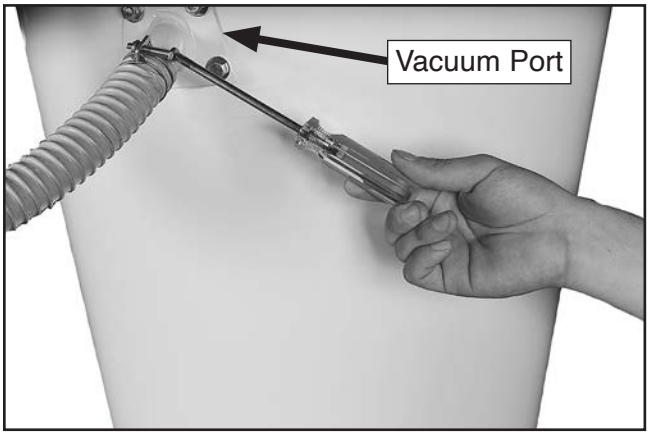


Figure 23. Attaching cyclone vacuum tube and hose attachment.

20. Using forklift, lift entire assembly approximately 2" off ground to gain clearance for filter installation.

21. Mount (2) filters to braces with brace gaskets between them (see **Figure 24**) using (8) 5/16"-18 x 3/4" hex bolts and (8) 5/16" fender washers.

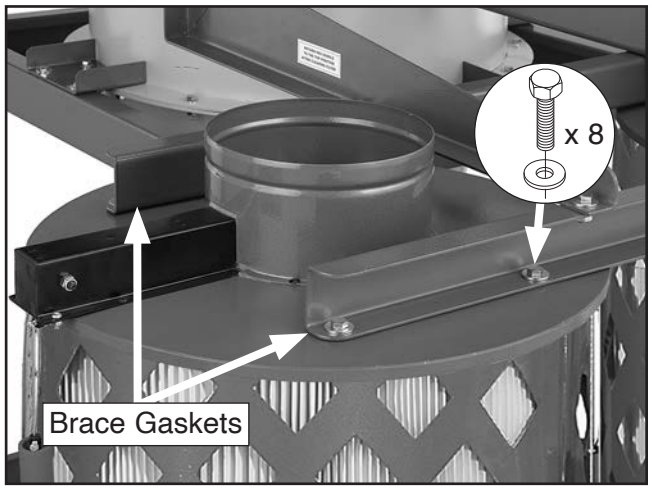


Figure 24. Example of canister filters mounted to long support braces.

22. Apply 3 x 15 x 700mm foam tape to both ends of each noise muffler, then connect mufflers between outlet ports and canisters with 8" flexible hoses and clamps, as shown in **Figure 25**.

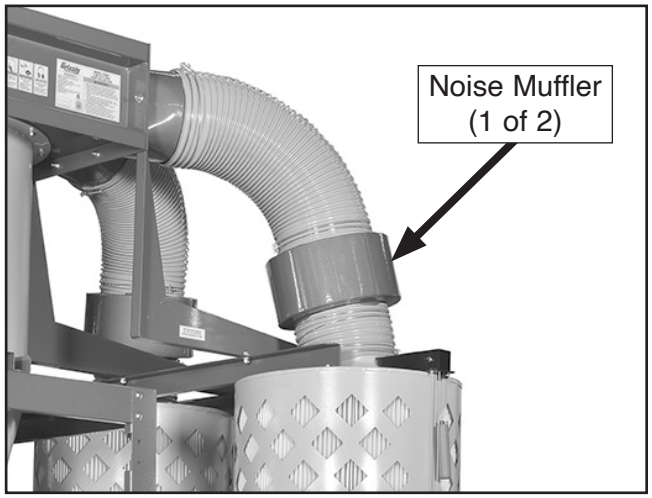


Figure 25. Noise mufflers connected between outlet ports and canisters.

23. Using forklift, raise assembly up and attach lower stand legs to upper stand legs, as shown in **Figure 26**, using (16) 5/16"-18 x 3/4" carriage bolts, 5/16" flat washers, and 5/16"-18 hex nuts.

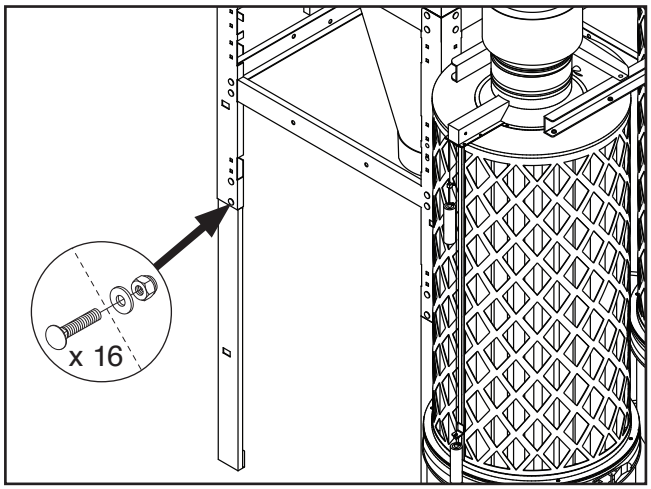


Figure 26. Attaching lower legs to the initial stand assembly.

24. Attach casters to bottom of lower collection drum, as shown in **Figure 27**, using (4) 3/8"-16 hex nuts, (8) 3/8" flat washers, and (4) 3/8" lock washers included in box with casters.

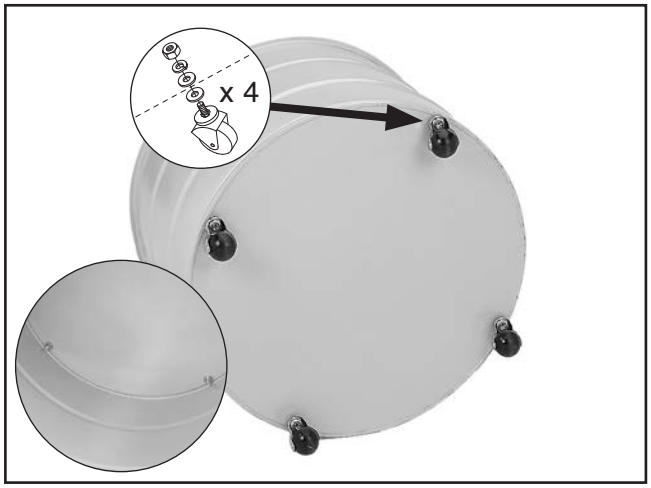


Figure 27. Casters attached to lower collection drum.

25. Connect upper and lower collection drums with included metal clamp and provided hex bolt and nut, as shown in **Figure 28.**

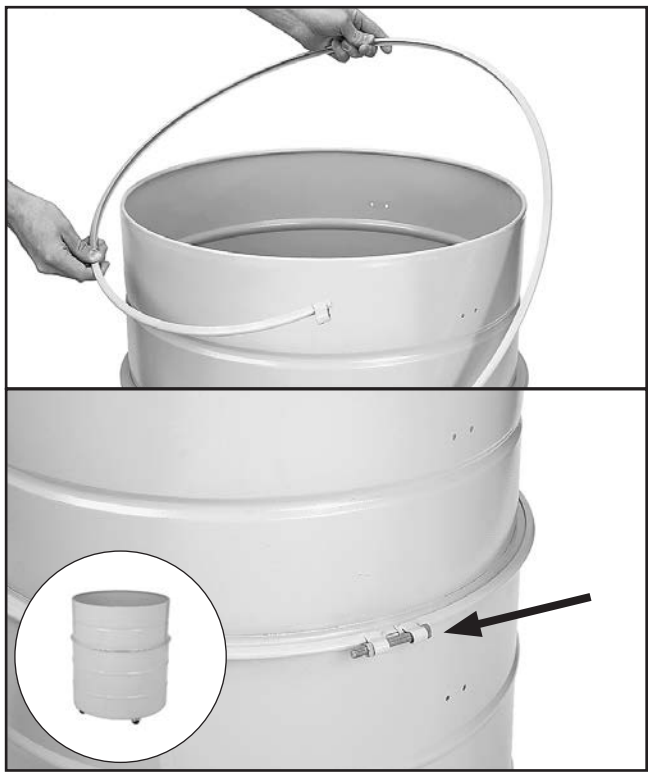


Figure 28. Installing metal clamp around collection drum.

26. Place collection drum vacuum ring on bottom of collection drum (see **Figure 29**).

Note: *During operation, this ring and vacuum connection to cyclone funnel will prevent collection bag from collapsing.*

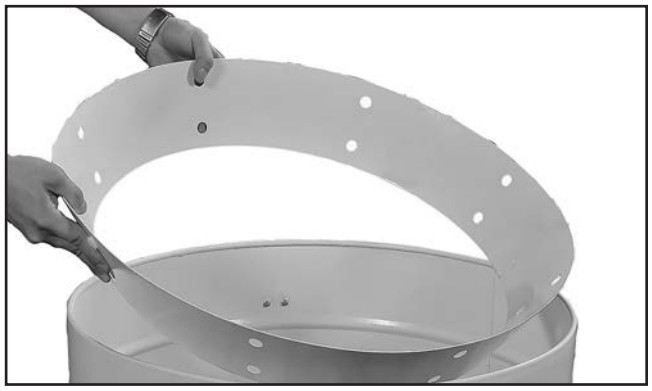


Figure 29. Inserting collection drum vacuum ring.

27. Attach (2) plastic collection drum handles to collection drum using (4) 5/16"-18 x 3/4" Phillips head screws, 5/16" fender washers, and 5/16"-18 acorn nuts (see **Figure 30**).

28. Install larger plastic collection bag into drum.

29. Place collection drum lid on top of collection drum (see **Figure 30**).

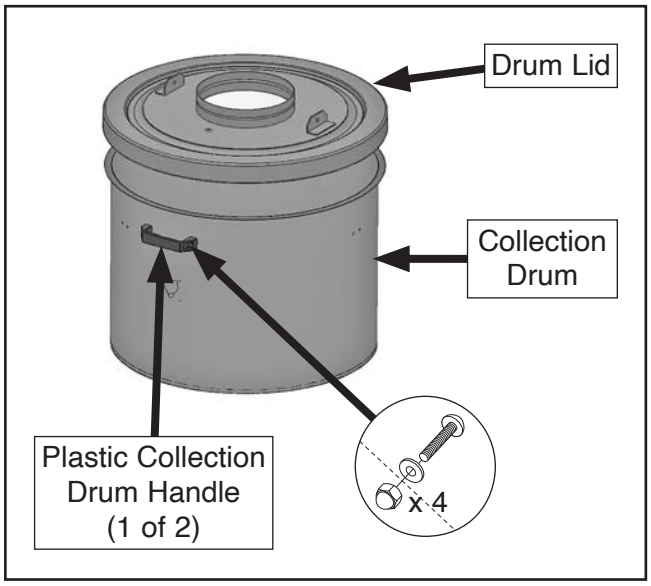


Figure 30. Drum lid and handles installed on collection drum.

30. Attach cyclone funnel adapter to drum lid using (2) 3/8"-16 x 11" hex bolts, (2) drum lid springs, and (4) 3/8" flat washers, as shown in **Figure 31**.

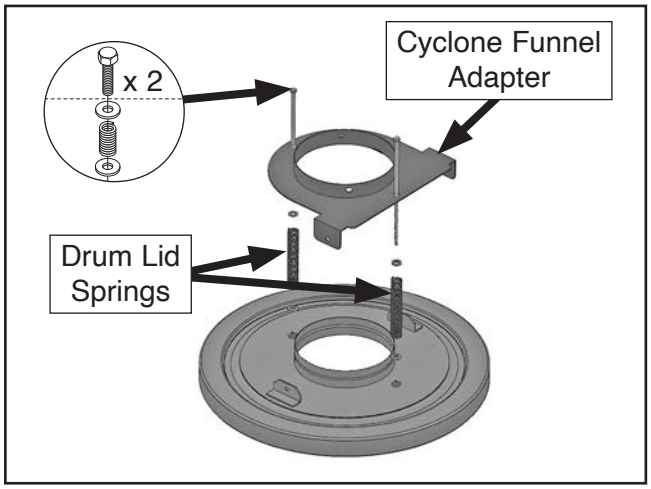


Figure 31. Installing cyclone funnel adapter.

31. Move collection drum assembly under cyclone assembly. Press cyclone funnel adapter and springs down to fit under cyclone funnel.

32. Align mounting holes of cyclone funnel and cyclone funnel adapter then attach with (4) ⅜"-16 x 1" hex bolts, (8) ⅜" thin flat washers, and (4) ⅜"-16 lock nuts (see **Figure 32**).

33. Install drum lid connecting plates using (2) ⅜"-16 x 1" hex bolts, (4) ⅜" flat washers, and (2) ⅜"-16 lock nuts (see **Figure 32**).

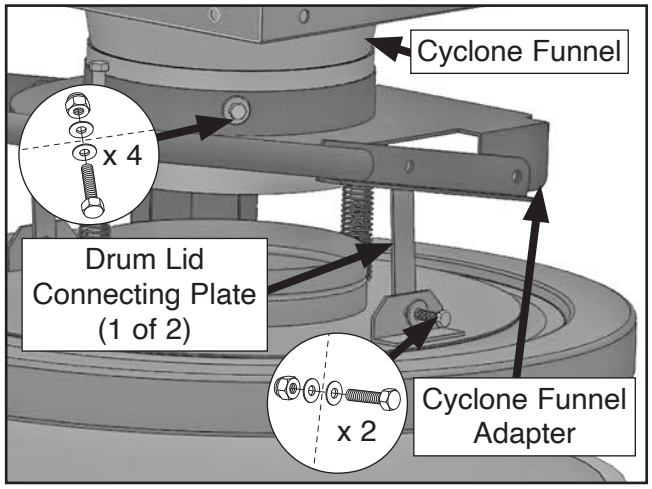


Figure 32. Cyclone funnel attached to adapter and drum lid connecting plates installed on drum lid.

34. Attach collection lid handle to cyclone funnel adapter and drum lid connecting plates using (4) ⅜"-16 x 1" hex bolts, (8) ⅜" flat washers, and (4) ⅜"-16 lock nuts (see **Figure 33**).

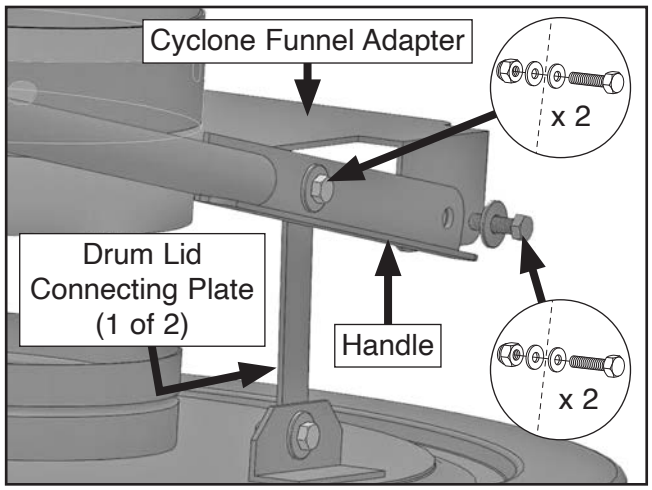


Figure 33. Collection lid handle attached to connecting plate and adapter.

35. Remove collection drum from under lid, and secure hex bolts from **Step 30** using (2) ⅜"-16 lock nuts (see **Figure 34**).

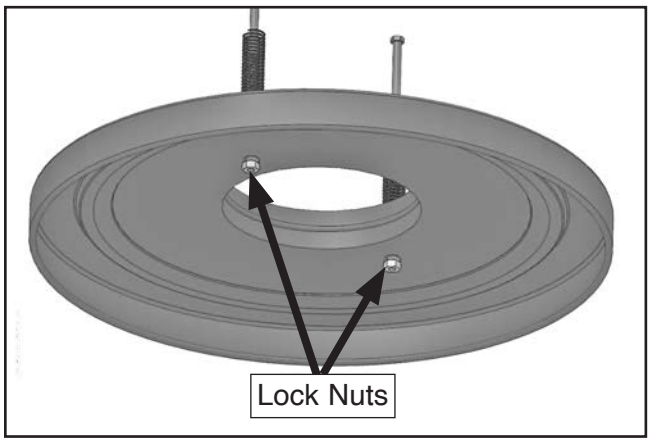


Figure 34. Cyclone funnel adapter hex bolts secured with lock nuts.

Note: *Do not overtighten. Only tighten lock nuts until they are flush with bottom of hex bolts.*

36. Move collection drum back under lid.

37. Connect bottom of cyclone funnel to collection drum lid with clear flexible hose and (2) 9" hose clamps (see **Figure 35**).

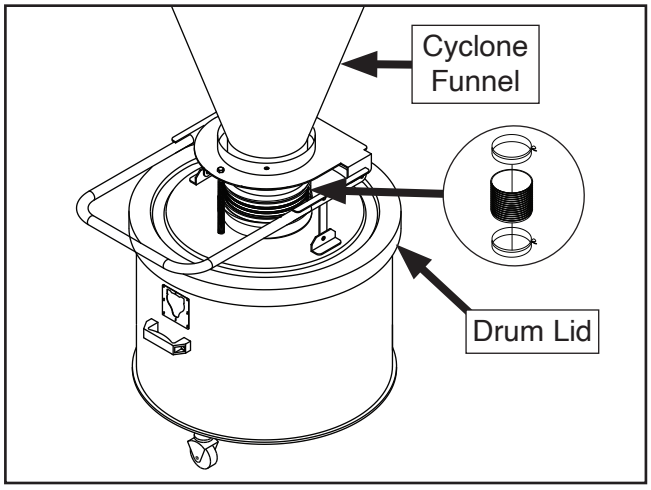


Figure 35. Cyclone funnel connected to drum lid with flexible hose (stand removed for clarity).

38. Attach handle hook bracket to lower stand brace above handle using (2) ⅜"-16 x 1" hex bolts, (4) ⅜" flat washers, and (2) ⅜"-16 lock nuts (see **Figure 36**).

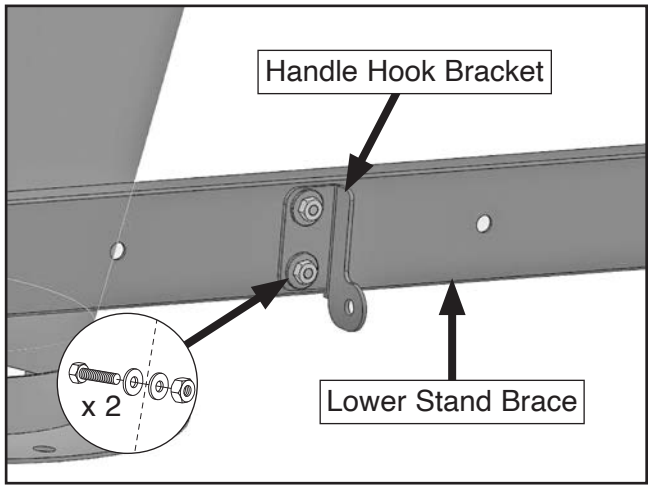


Figure 36. Handle hook bracket attached to lower stand brace.

39. Attach handle hook to bracket using (1) ⅜"-16 x 1" hex bolt, (2) ⅜" flat washers, and (1) ⅜"-16 lock nut (see **Figure 37**).

Note: *Do not tighten nut completely to allow hook to move.*

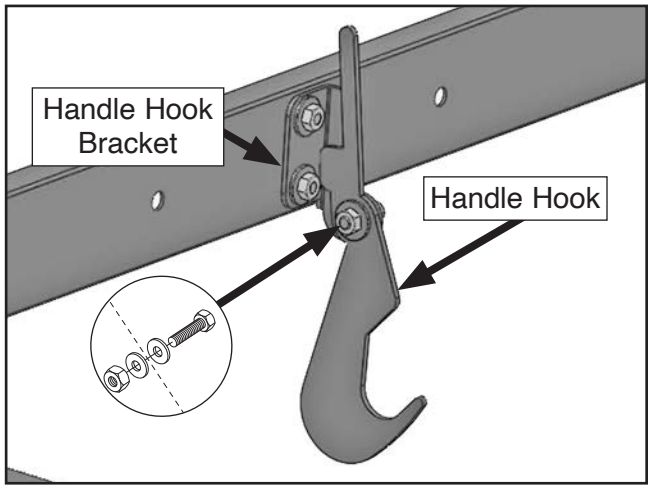


Figure 37. Handle hook attached to hook bracket.

40. Fit plastic collection bags over bottom of filters and clamp in place with metal bag clamps, as shown in **Figure 38**.

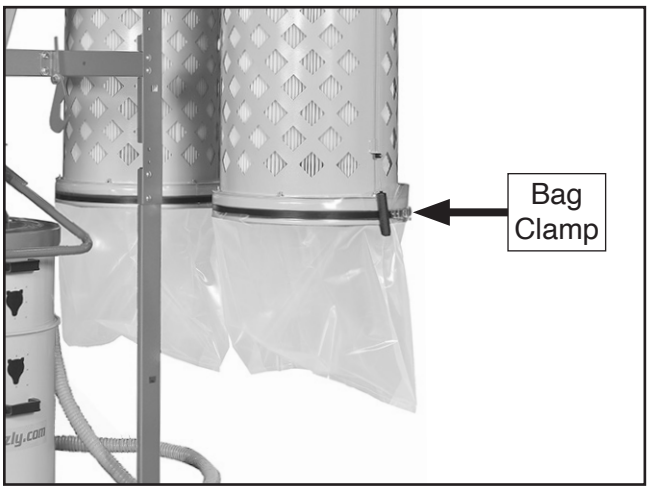


Figure 38. Canister filter collection bag installed.

41. Connect vacuum hose to collection drum vacuum ports with (2) 1¼" hose clamps (see **Figure 39**).

Figure 39. Connecting vacuum hose.

42. Slide reducer over inlet port (**Figure 40**) and secure with (3) M4 x 12 sheet metal screws.

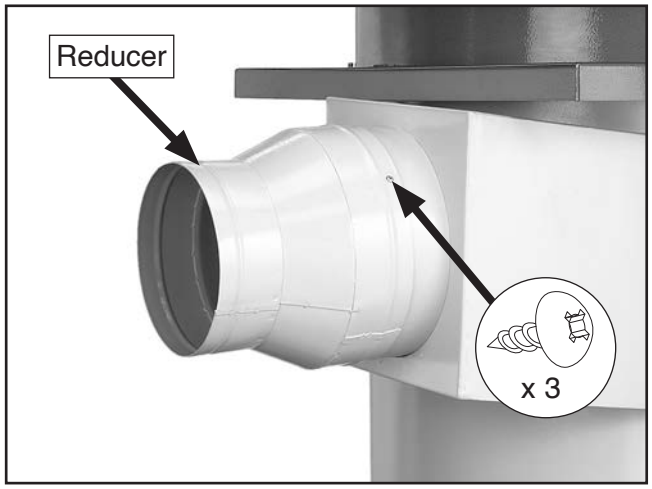


Figure 40. Reducer installed.

43. Secure vacuum hose inside upper and lower stand legs with (2) U-shaped clips (see **Figure 41**).

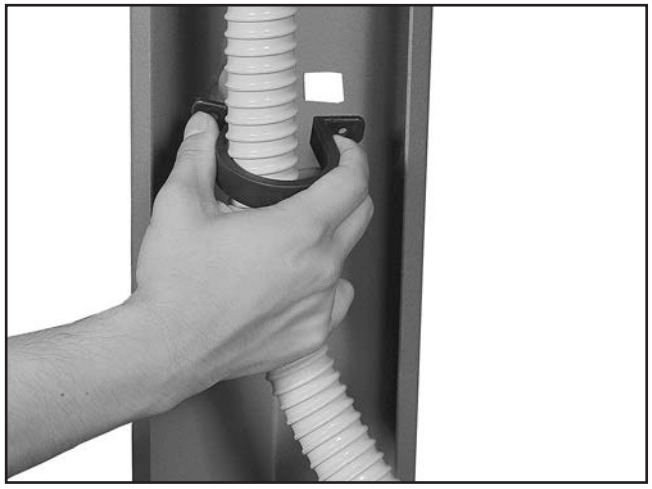


Figure 41. Securing vacuum hose to stand legs.

44. Mount switch on stand, as shown in **Figure 42**, with (3) ⅜"-16 x ¾" hex bolts, (6) ⅜" flat washers, and (3) ⅜"-16 hex nuts.

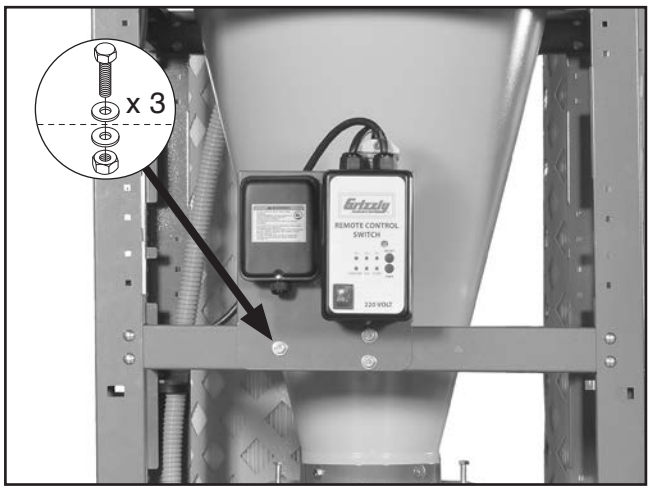


Figure 42. Switch mounted to stand.

Note: *Hand-held remote control uses IR (infrared) to communicate with control box receiver port, and must have direct line-of-sight to control box face. Locate control box with this in mind.*

Power Connection

Due to the complexity required for planning, bending, and installing the conduit necessary for a code-compliant hardwire setup, an electrician or other qualified person MUST perform this type of installation. Hardwire setups typically require power supply wires to be enclosed inside of a solid or flexible conduit, which is securely mounted at both ends with the appropriate conduit fittings. All work must adhere to the required electrical codes.

The hardwire setup for this machine must include a locking disconnect switch (see **Figure 43**) between the power source and the machine. This switch serves as the means to completely disconnect the machine from power to prevent electrocution accidental startup during adjustments, maintenance, or service to the machine.

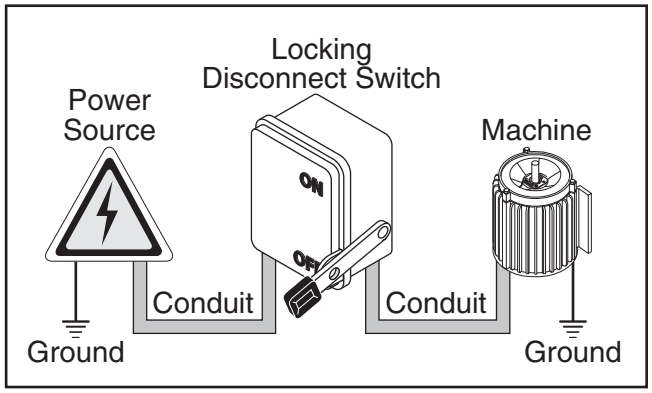


Figure 43. Typical hardwire setup with a locking disconnect switch.

G0442 Power Connection

The incoming power wires must be connected to the two terminals on the contactor marked 1L1 and 5L3, and the incoming ground wire must be connected the ground terminal, as illustrated in **Figure 44**. All wires must have adequate slack and be clear of sharp objects.

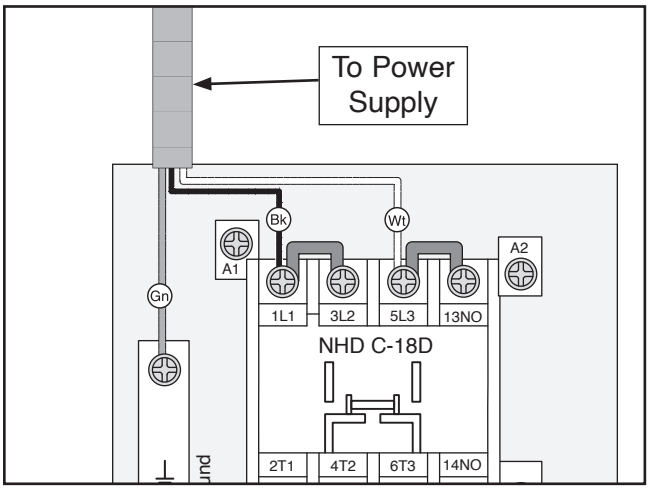


Figure 44. G0442 mag switch to power supply connection.

G0601 Power Connection

The incoming power wires must be connected to the three terminals on the master power switch marked 1L1, 3L2, and 5L3, and the incoming ground wire must be connected the ground terminal shown in **Figure 45**. All wires must have adequate slack and be clear of sharp objects.

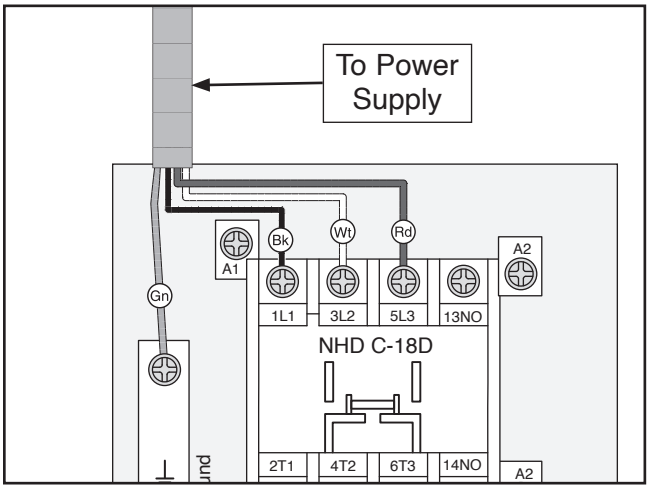


Figure 45. G0601 mag switch to power supply connection.

Test Run

When the assembly is complete, test run the dust collection system to make sure it operates 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 46**.

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

To test run the dust collection system:

1. Make sure you have read the safety instructions at the beginning of the manual and that the machine is set up properly.

2. Make sure all tools and objects used during setup are cleared away from the machine.

3. Review the **Circuit Requirements** section beginning on **Page 11** and connect the machine to the power source.

4. Flip the main power switch at the lower left hand corner of the control box to the ON ("I") position to enable power to the switch.

5. Press the ON/OFF button to turn the machine ***ON***. Make sure your hand stays poised over the switch in case you need to quickly turn the machine ***OFF***.

6. Listen and watch for abnormal noises or actions. The machine should run smoothly with little or no vibration or rubbing noises.

   — If you suspect any problems, immediately turn the machine ***OFF,*** then disconnect the machine from power. Refer to **Troubleshooting** on **Page 46** to identify and fix any problems.

   — If you cannot solve the problem with the use of the **Troubleshooting** guide, contact our Tech Support at (570) 546-9663 for assistance.

7. Press the TIMER button on the control box and cycle through each of the times to make sure the indicators light.

8. Press the TIMER button on the remote control and cycle through the times in the same manner as **Step 7**.

9. Toggle the ON/OFF button on both the control box and the remote control to make sure they are working properly.

⚠DANGER

If any part of your body contacts the spinning impeller, severe cutting or amputation injuries will occur. Always keep yourself and tools away from the impeller when the machine is connected to power.

For Model G0601 Only

The Model G0601 uses a 3-phase motor. For proper operation, the impeller inside the blower housing must rotate *counterclockwise* when viewed from above. Since the motor and impeller are directly connected, you must verify that the motor rotates in the correct direction.

10. Use a ladder to safely observe the motor fan through the top motor cover as another person turns the machine ***ON*** and ***OFF***.

    — If the motor fan rotates *counterclockwise* when viewed from above, the rotation direction is correct.

    — If the motor fan rotates *clockwise* when viewed from above, the rotation direction is incorrect and the motor is wired out-of-phase. Perform the **Correcting Phase Polarity** procedure on **Page 14** to correctly wire the machine to the power source so that the motor and impeller spin *counterclockwise* when viewed from above.

SECTION 4: DESIGNING THE SYSTEM

General

⚠CAUTION
Always guard against static electrical build up by grounding all dust collection lines.

The Model G0442/G0601 is designed to be a central dust collector system. The large suction capacity of the Model G0442/G0601 allows great flexibility in planning and designing of the dust collection duct layout.

Note: *Check local codes concerning the use of dust collecting machines before deciding the placement of the machine.*

Grizzly offers a complete line of dust collection accessories for setting up a stationary system. Additionally, Grizzly offers a complete guide book titled **Dust Collection Basics**.

Whatever system design you choose, always make sure there are no open flames (including pilot lights) in the same room as the dust collector; otherwise you risk an explosion if dust is dispersed into the air.

Duct Material

You have many choices regarding main line and branch line duct material. For best results, use metal duct for the main line and branch lines, then use short lengths of flexible hose to connect each machine to the branch lines.

Plastic duct is also a popular material for home shops. However, be aware that there is a fire or explosion hazard if plastic duct material is used for dust collection without being grounded against static electrical charge build-up. This topic will be discussed later in this section. Another problem with using plastic is that it is less efficient per foot than metal.

⚠CAUTION
Plastic duct generates static electrical buildup that can cause fire or shock. Properly ground it to reduce this risk.

Plastic Duct

The popularity of plastic duct is due to the fact that it is an economical and readily available product. It is also simple to assemble and easily sealed against air loss. The primary disadvantage of plastic duct for dust collection is the inherent danger of static electrical buildup.

Figure 46. Examples of plastic ducting components.

Metal Duct

Advantages of metal duct is its conductivity and that it does not contribute to static electrical charge build-up. However, static charges are still produced when dust particles strike other dust particles as they move through the duct. Since metal duct is a conductor, it can be grounded quite easily to dissipate any static electrical charges.

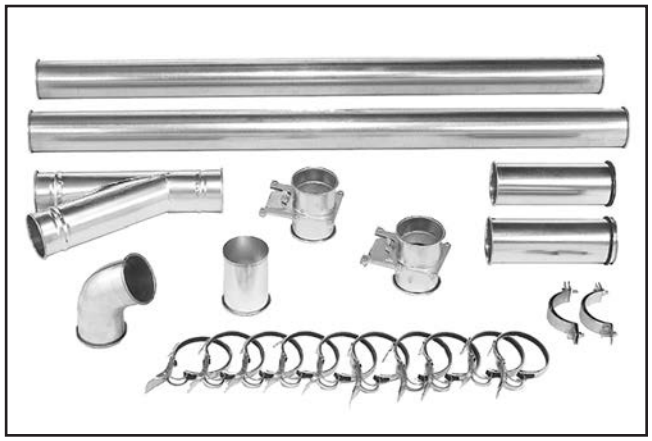


Figure 47. Examples of metal pipe and components.

There are a number of options when it comes to metal duct, but metal duct that is specially manufactured for dust collection is the best choice. When selecting your metal duct, choose high quality metal duct with smooth welded internal seams that will minimize airflow resistance. This type of duct usually connects to other ducts or elbows with a simple, self-sealing clamp, is very quick and easy to assemble, and can be readily dismantled and re-installed. This is especially important if you ever need to change things around in your shop or add more tools.

Avoid inferior metal duct that requires you to cut it to length and snap it together. This type of duct is time consuming to install because it requires you to seal all the seams with silicone and screw the components on the ends with sheet metal screws. Another disadvantage is the rough internal seams and crimped ends that unavoidably increase static pressure loss.

Flexible Duct

Flexible hose is generally used for short runs, small shops and at rigid duct-to-tool connections. There are many different types of flex hose on the market today. These are manufactured from materials such as polyethylene, PVC, cloth hose dipped in rubber and even metal, including steel and aluminum.

The superior choice here is metal flex hose that is designed to be flexible, yet be as smooth as possible to reduce static pressure loss.

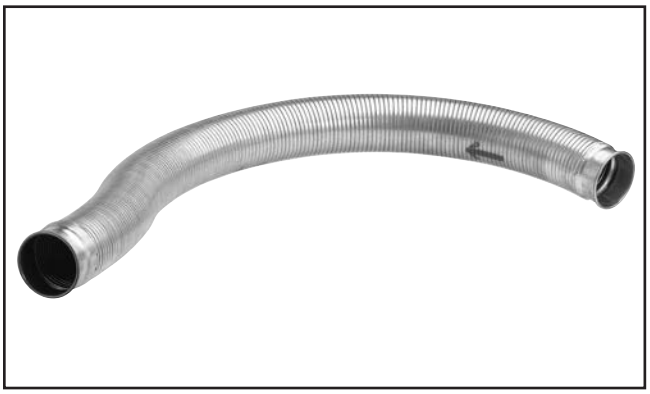


Figure 48. Example of flexible metal duct.

There are also many kinds of pure plastic flexible hose, such as non-perforated drainage type hose and dryer vent hose. Drainage type hose, while being economical, does not quite have the flexibility required for dust collection. The inside of the duct is also deeply corrugated and can increase the static pressure loss by as much as 50% over smooth wall duct. Dryer vent hose, while being completely flexible, is non-resistant to abrasion and has a tendency to collapse in a negative pressure system. We DO NOT recommend using dryer vent hose in your dust collection system.

If using flex-hose, you should choose one of the many types that are designed specifically for the movement of solid particles, i.e. dust, grains, and plastics. However, the cost of specifically designed flexible duct can vary greatly. Grizzly offers polyethylene hose, which is well suited for the removal of particulate matter, especially sawdust, since it is durable and completely flexible. Polyethylene is also very economical and available in a wide variety of diameters and lengths for most applications.

System Design

Decide Who Will Design

For most small-to-medium sized shops, you can design and build the dust collection system yourself without hiring engineers or consultants. We have included some basic information here to get you started on a basic design.

If you have a large shop or plan to design a complicated system, we recommend doing additional research beyond this manual or seeking the help of an expert.

Sketch Your Shop Layout

When designing a successful dust collection system, planning is the most important step. In this step, sketch a basic layout of your shop, including space requirements of different machines.

Before you get out your pencil and paper, we recommend you visit our FREE *Workshop Planner,* at **http://www.grizzly.com/workshopplanner**.

Our *Workshop Planner* will allow you to quickly and easily design and print a basic shop layout. Don't worry, non-Grizzly brand machines can be substituted with Grizzly machines for layout purposes. **Note:** *After you're finished, make sure to save your layout for later modification.*

Your sketch only needs the basic details of the shop layout, similar to the figure below, including all your current/planned machines and your planned placement of the dust collector.

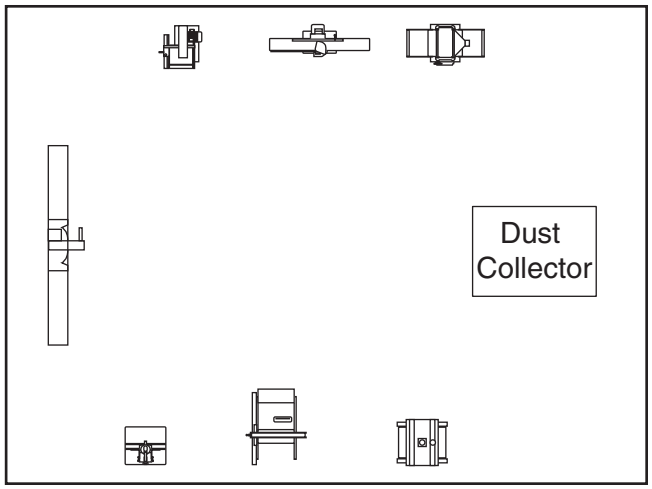


Figure 49. Basic sketch of shop layout.

Sketch a Basic Duct Layout

For the next step, sketch how you will connect your machines to the dust collector. Consider these general guidelines for an efficient system:

1. Machines that produce the most saw dust should be placed nearest to the dust collector (i.e. planers and sanders).

2. Ideally, you should design the duct system to have the shortest possible main line and secondary branch ducts. See the figures below for ideas of efficient versus inefficient duct layouts.

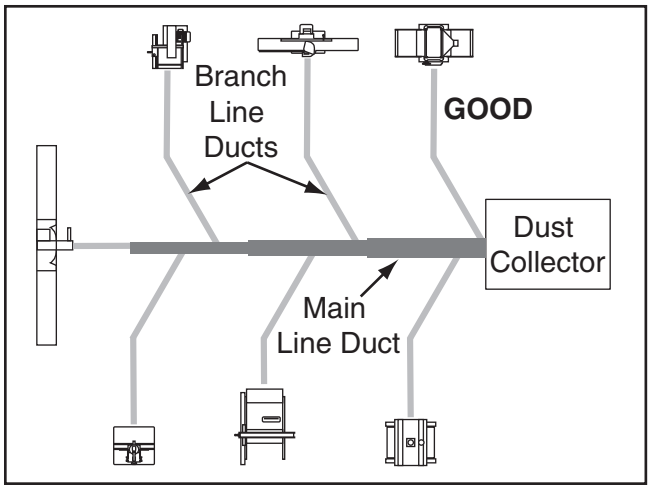


Figure 50. Efficient duct layout.

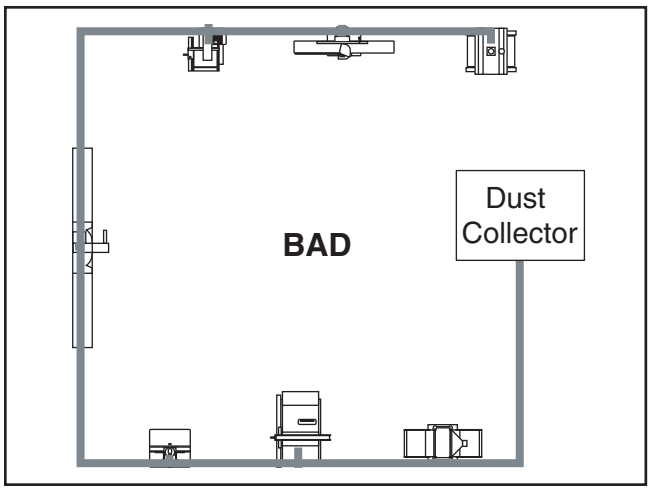


Figure 51. Inefficient duct layout.

3. Directional changes should be kept to a minimum. The more directional change fittings you use directly increases the overall resistance to airflow.

4. Gradual directional changes are more efficient than sudden directional changes (i.e. use the largest corner radius possible when changing hose or pipe direction).

5. Each individual branch line should have a blast gate immediately after the branch to control suction from one machine to another.

6. The simpler the system, the more efficient and less costly it will be.

Determine Required CFMs

Since each machine produces a different amount of sawdust, the requirements for the minimum amount of CFM to move that sawdust is unique to the machine (for example, a planer produces more sawdust than a table saw). Knowing this required CFM is important to gauging which size of duct to use.

Refer to the figure below for a close estimation of the airflow each machine requires. Keep in mind that machines that generate the most sawdust should be placed closest to the dust collector. If the machine has multiple dust ports, the total CFM required is the sum of all ports.

Machine Dust Port Size	Approximate Required CFM
2"	100
2.5"	150
3"	250
4"	400
5"	600
6"	850
7"	1200
8"	1600
9"	2000
10"	2500

Figure 52. Approximate required airflow for machines, based on dust port size.

If the machine does not have a built-in dust port, use the following table to determine which size of dust port to install.

Machine	Average Dust Port Size
Table Saw	4"
Miter/Radial-Arm Saw	2"
Jointer (6" and smaller)	4"
Jointer (8"-12")	5"
Thickness Planer (13" and smaller)	4"
Thickness Planer (14"-20")	6"
Shaper	4"
Router (mounted to table)	2"
Bandsaw	4"
Lathe	4"
Disc Sander (12" and smaller)	2"
Disc Sander (13-18")	4"
Belt Sander (6" and smaller)	2"
Belt Sander (7"-9")	3"
Edge Sander (6" x 80" and smaller)	4"
Edge Sander (6" x 80" and larger)	5"
Drum Sander (24" and smaller)	2 x 4"
Drum Sander (24" and larger)	4 x 4"
Widebelt Sander (18" and smaller)	5"
Widebelt Sander (24"-37" single head)	2 x 6"
Widebelt Sander (24"-51" double head)	5 x 4"

Figure 53. Dust port size and quantity per average machine.

Write the required CFM for each machine on your sketch, as shown in the figure below.

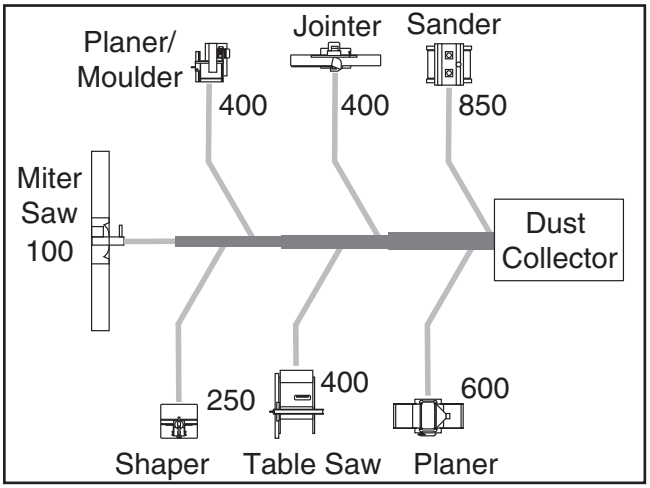


Figure 54. CFM requirements labeled for each machine.

Determining Main Line Duct Size

The general rule of thumb for a main line duct is that the velocity of the airflow must not fall below 3500 FPM.

For small/medium sized shops, using the inlet size of the dust collector as the main line duct size will usually keep the air velocity above 3500 FPM and, depending on your system, will allow you to keep multiple branches open at one time.

Mark your drawing, as shown in the figure below, but using the inlet size for your dust collector as the main line.

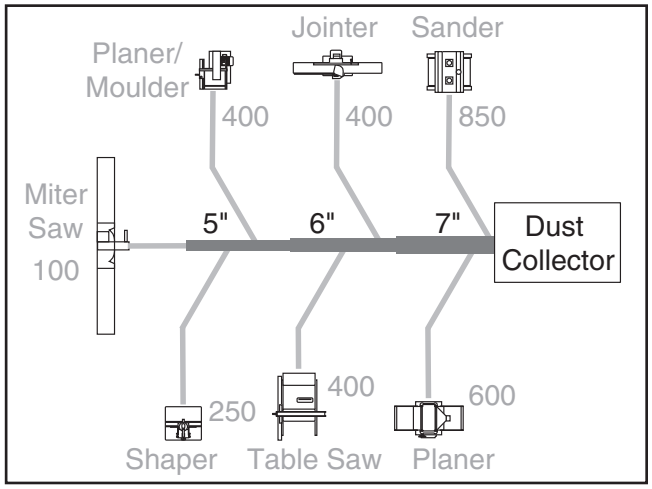


Figure 55. Main line size labeled on sketch.

Determining Branch Line Duct Size

The general rule of thumb for a branch line duct is that the velocity of the airflow must not fall below 4000 FPM.

For small/medium sized shops, using the dust port size from the machine as the branch line duct size will achieve the correct velocity in most applications. However, if the dust port on the machine is smaller than 4", make the branch line 4" and neck the line down right before the dust port.

Note: *Systems with powerful dust collectors work better if multiple blast gates are left open. This also allows you to run two machines at once. Experiment with different combinations of blast gates open/closed to find the best results for your system.*

Write your determined branch line sizes on your drawing, as shown in the following figure.

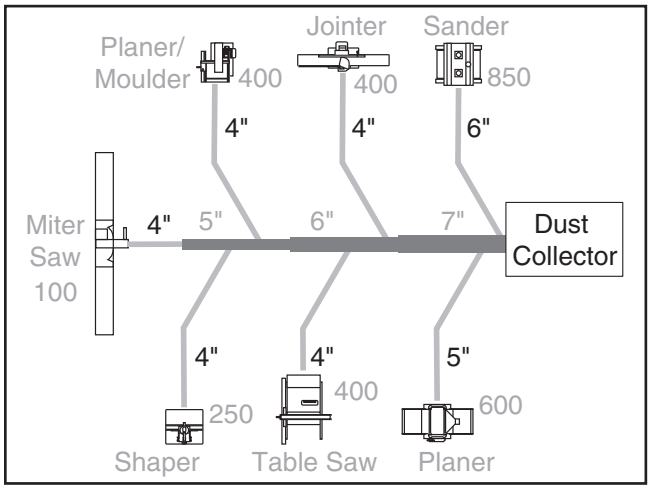


Figure 56. Branch line duct sizes labeled.

If two machines will connect to the same branch line and both will operate at the same time, then add the required CFM for each machine together and find the closest total CFM in the table below to determine the correct branch size.

If both machines will never run at the same time, reference the machine with the biggest dust port in the table below and add blast gates after the Y-branch to open/close the line to each machine.

Total CFM	Branch Line Size
400	4"
500	4"
600	5"
700	5"
800	6"
900	6"
1000	6"

Figure 57. Sizing chart for multiple machines on the same branch line.

Planning Drop Downs

Plan the drop downs for each machine, using blast gates wherever possible to control airflow.

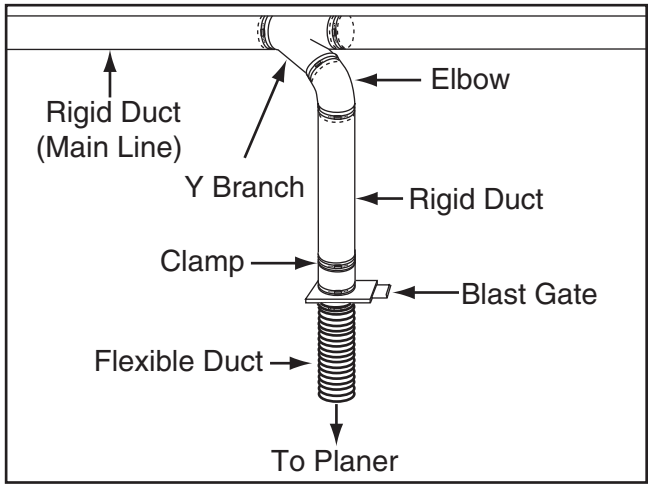


Figure 58. Drop down setup.

Calculating Duct Resistance

Adding duct work, elbows, branches and any other components to a duct line increases airflow resistance (static pressure loss). This resistance can be minimized by using rigid (smooth) duct and gradual curves, as opposed to flexible duct and 90˚ elbows.

To help you think about this resistance, imagine riding a bicycle in a tunnel that is an exact replica of your duct work. If the inside of the tunnel is very bumpy (flexible duct) and has a lot of sharp turns (90˚ elbows), it will take a lot more effort to travel from one end to the other.

The purpose of calculating the resistance is to determine if it is low enough from the machine to the dust collector to meet the given CFM requirement for the machine. Use the following tables to calculate the resistance of duct work.

Duct Dia.	Approximate Static Pressure Loss Per Foot of Rigid Duct		Approximate Static Pressure Loss Per Foot of Flexible Duct	
	Main Lines at 3500 FPM	Branch Lines at 4000 FPM	Main Lines at 3500 FPM	Branch Lines at 4000 FPM
2"	0.091	0.122	0.35	0.453
2.5"	0.08	0.107	0.306	0.397
3"	0.071	0.094	0.271	0.352
4"	0.057	0.075	0.215	0.28
5"	0.046	0.059	0.172	0.225
6"	0.037	0.047	0.136	0.18
7"	0.029	0.036	0.106	0.141
8"	0.023	0.027	0.08	0.108
9"	0.017	0.019	0.057	0.079

Fitting Dia.	90˚ Elbow	45˚ Elbow	45˚ Wye(Y)	90˚ Wye(Y)
3"	0.47	0.235	0.282	0.188
4"	0.45	0.225	0.375	0.225
5"	0.531	0.266	0.354	0.236
6"	0.564	0.282	0.329	0.235
7"	0.468	0.234	0.324	0.216
8"	0.405	0.203	0.297	0.189

Figure 59. Static pressure loss charts.

In most small/medium shops it is only necessary to calculate the line with the longest duct length or the most fittings (operating under the assumption that if the line with the highest resistance works, the others will be fine).

To calculate the static pressure of any given line in the system, follow these steps:

1. Make a list of each size duct in the line, including the length, and multiply those numbers by the static pressure value given in the previous table.

2. List each type of elbow or branch and multiply the quantity (if more than one) by the static pressure loss given in the previous table.

3. Add the additional factors from the following table to your list.

Additional Factors	Static Pressure
Seasoned (well used) Dust Collection Filter	1"
Entry Loss at Large Machine Hood	2"

Figure 60. Additional factors affecting static pressure.

4. Total your list as shown in the example below to come up with your overall static pressure loss number for that line.

Note: *Always account for a seasoned filter, so you don't end up with a system that only works right when the filter is clean.*

Main Line
6" Rigid Duct (0.037) at 20' 0.740

Branch Line
4" Rigid Duct (0.075) at 10' 0.750
4" Flexible Duct (0.28) at 5' 1.400

Elbows/Branches
6" 45˚ Y-Branch 0.329
4" 45˚ Elbow 0.225

Additional Factors
Seasoned Filter 1.000

Total Static Pressure Loss 4.444

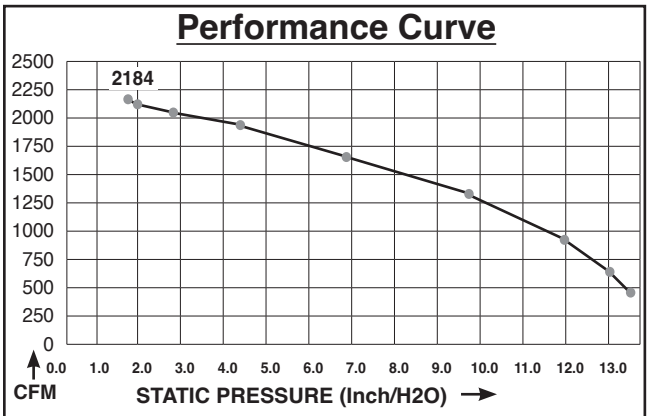
Figure 61. Totaling static pressure numbers.

Note: *When calculating static pressure loss to determine if multiple lines can be left open at the same time, only include the main line numbers once.*

5. Compare the total static pressure loss for that line to the closest CFM given in **Figure 62.**

Example: The G0442/G0601 **Data Sheet Performance Curve** is illustrated in **Figure 62**. Find 4.6 on the Static Pressure axis (the amount of total static pressure loss calculated in **Figure 62**), then refer to the closest value on the CFM axis—approximately 1953 CFM.

The 1953 CFM for the static pressure loss of the line connected to the router is well above the 220 CFM requirement of that machine.



5 HP GRIZZLY DUST COLLECTOR PERFORMANCE RESULTS					
Max CFM	**Max SP**	**HP**	**Volts**	**Inlet**	**Impeller**
2184	14.0	5 HP	220V	10"	16"

Restrictor plate (inch)	Dia 10"	Dia 9"	Dia. 8"	Dia. 7"	Dia. 6"	Dia. 5"	Dia. 4"	Dia. 3"	Dia. 2"
Static pressure (Inch/H2O)	1.9	2.1	3.0	4.6	7.0	9.8	12.1	13.2	13.7
CFM	2184	2129	2072	1953	1692	1381	977	691	488

The airflow test probe is located 1.5x duct diameter upstream from the air inlet. Test pipe length is a minimum of 10x duct diameter.

Figure 62. G0442/G0601 performance curve chart and data.

— If the CFM for your static pressure loss is above the requirement of the machine connected to the end of that branch line, then dust collection will most likely be successful. Congratulations! You've just designed your own dust system. Refer to the **Accessories** section on **Page 44** to start buying the components necessary to make your system a reality.

— If the CFM for your static pressure loss is below the requirement of the machine, then that line will not effectively collect the dust. You must then modify some of the factors in that line to reduce the static pressure loss. Some of the ways to do this include 1) installing larger duct, 2) reducing amount of flexible duct used, 3) increasing machine dust port size, 4) moving machine closer to dust collector to eliminate duct length, and 5) reducing 90˚ elbows or replacing them with 45˚ elbows.

Example Materials List

After the system is designed, create a materials list of all the items you will need to build your dust collection system. This will make it easy when it comes time to purchase the materials.

Below is an example of some items that might be needed. Refer to **Accessories** for dust collection components available through grizzly.com.

Description	Model	Quantity
6" Rigid Duct at 20'	G7364	4
4" Rigid Duct at 10'	G6162	2
4" Flex Hose at 5'	H7215	6
6" 45° Y-Branch	G7353	6
4" 45° Elbow	G6167	6

Figure 63. Example of dust collection system material list.

System Grounding

Since plastic hose is abundant, relatively inexpensive, easily assembled and air tight, it is a very popular material for conveying dust from woodworking machines to the dust collector.

We recommend only using short lengths of flexible hose (flex-hose) to connect the woodworking machine to the dust collector. However, plastic flex-hose and plastic duct are an insulator, and dust particles moving against the walls of the plastic duct create a static electrical buildup. This charge will build until it discharges to a ground.

If a grounding medium is not available to prevent static electrical buildup, the electrical charge will arc to the nearest grounded source. This electrical discharge may cause an explosion and subsequent fire inside the system.

To protect against static electrical buildup inside a non-conducting duct, a bare copper wire should be placed inside the duct along its length and grounded to the dust collector. You must also confirm that the dust collector is continuously grounded through the electrical circuit to the electric service panel.

If you connect the dust collector to more than one machine by way of a non-conducting branching duct system and blast gates, the system must still be grounded as mentioned above. We recommend inserting a continuous bare copper ground wire inside the entire duct system and attaching

⚠CAUTION

Always guard against static electrical build up by grounding all dust collection lines.

Be sure that you extend the bare copper wire down all branches of the system. Do not forget to connect the wires to each other with wire nuts when two branches meet at a “Y” or “T” connection.

Ensure that the entire system is grounded. If using plastic blast gates to direct air flow, the grounding wire must be jumped (see the figure below) around the blast gate without interruption to the grounding system.

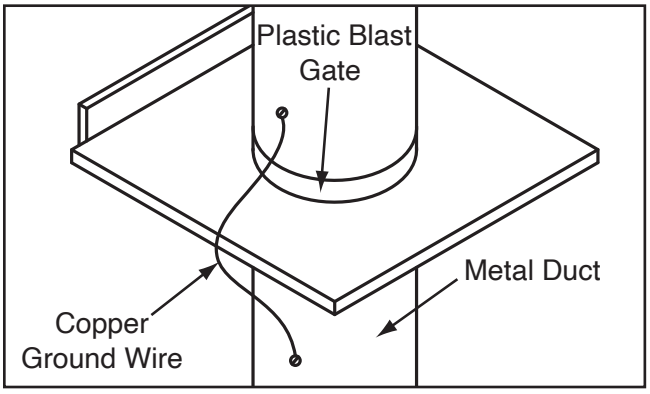


Figure 64. Ground jumper wire when using plastic blast gates and metal duct.

We also recommend wrapping the outside of all plastic ducts with bare copper wire to ground the outside of the system against static electrical buildup. Wire connections at Y’s and T’s should be made with wire nuts.

Attach the bare ground wire to each stationary woodworking machine and attach to the dust collector frame with a ground screw as shown in the figure below. Ensure that each machine is continuously grounded to the grounding terminal in your electric service panel.

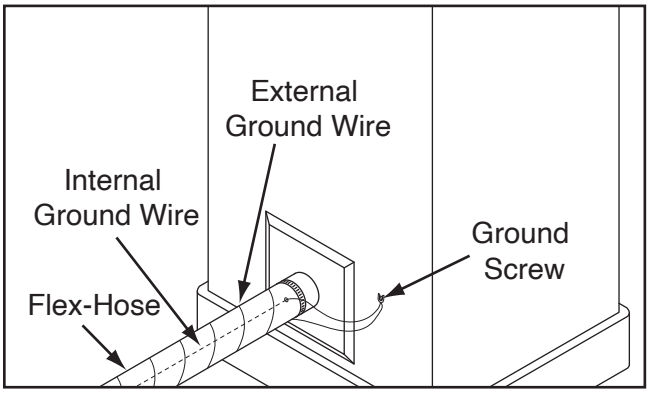


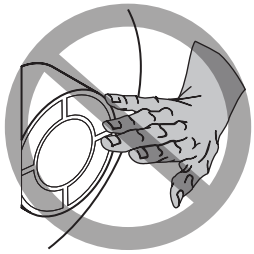
Figure 65. Flex-hose grounded to machine.

SECTION 5: OPERATIONS

⚠WARNING

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





⚠WARNING

Do NOT put hands or small objects near inlet openings during operation. Objects sucked into the inlet will meet with the impeller blade. Failure to heed this warning could result in property damage or personal injury.

⚠CAUTION

DO NOT use the dust collector for any other purpose besides collecting dust from connected woodworking machines. A dust collector should NEVER be used as a shop vacuum and IS NOT a substitute for an air filter system. For safest use, wear a respirator and use an air cleaner in addition to the dust collector.

NOTICE

If you have never used this type of machine or equipment before, WE STRONGLY RECOMMEND that you read books, trade 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.

General

Operating the Model G0442/G0601 is simple and straightforward. Blast gates located at each of the machines controls the air flow from the woodworking machine to the dust collector. If a machine is not being used, keep the blast gate closed to maintain higher levels of efficiency throughout the system.

Remote Control

The remote control for the Model G0442/G0601 is IR (infrared) rather than RF (radio frequency) to prevent accidental startups by other common RF items such as garage door openers.

Because this remote system is IR, the remote control must be pointing directly at the control box with an unobstructed line-of-sight view.

If you place the dust collector in a different room or outside of your shop, you must mount the switch in the shop and wire it through the wall to the dust collector to make use of the remote control.

Note: *The remote control requires two "AA" batteries for operation.*

Control Box Panel

Use the illustration of the control box panel in **Figure 66** and the descriptions that follow to become familiar with the functions of the buttons on the control box.

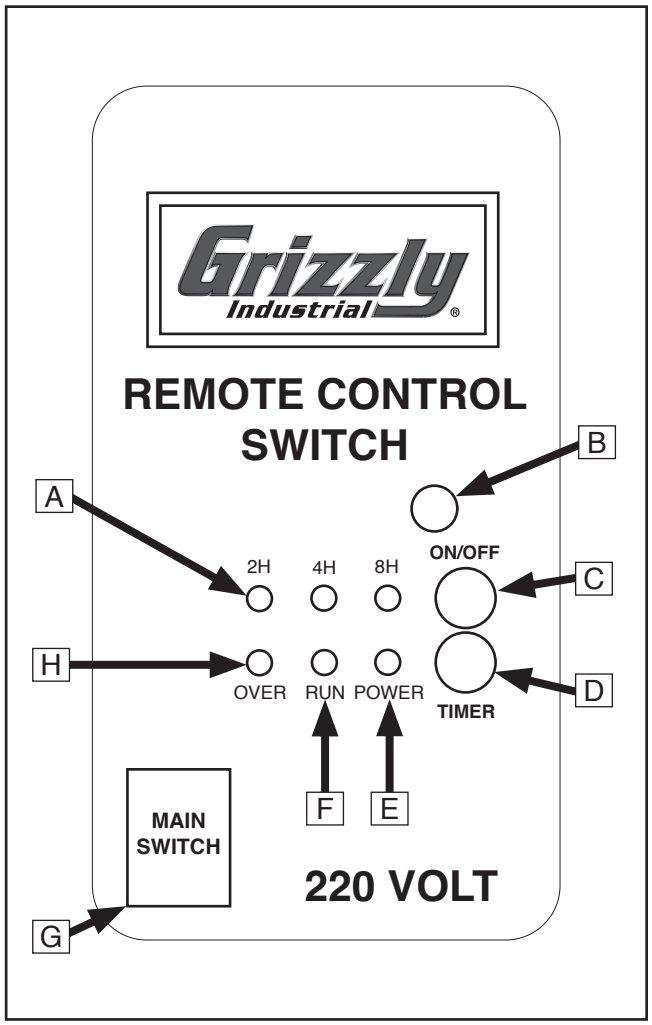


Figure 66. Control box panel.

A. Timer Indicator Lights: Turns ***ON*** when a timer setting is selected.

B. Infrared Port: Receives infrared communication from the remote control.

C. ON/OFF Button: Starts/stops the dust collector motor.

D. Timer Button: Cycles through the available timer settings.

E. Power Light: Indicates when there is power to the control box.

F. Run Light: Illuminates when the dust collector motor is operating.

G. Main Switch: Enables/disables the power flow to the control box and must be turned ON before using ON/OFF button.

H. Overload Light: Turns ON when the dust collector is overloaded and the motor has stopped.

Note: If the overload light illuminates and the motor stops, you must turn the machine ***OFF*** and allow the motor to cool. The overload relay should reset automatically and the light will go out.

If this is a persistent problem, refer to the **Troubleshooting** section on **Page 48** for additional help.

SECTION 6: ACCESSORIES

H5293—4" Metal Duct Starter Kit
H5297—6" Metal Duct Starter Kit
Save over 20% with this great starter kit. Includes: (2) machine adapters, (10) pipe clamps, (3) 5' straight pipes, (1) branch, (3) pipe hangers, (1) end cap, (3) adjustable nipples, (1) 90˚ elbow, and (1) 60˚ elbow.

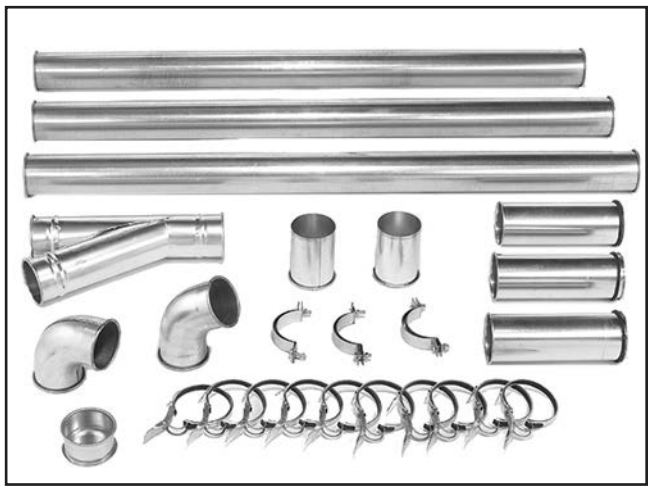


Figure 67. Metal Duct Starter Kit.

H5294—4" Metal Duct Machine Addition Kit
H5298—6" Metal Duct Machine Addition Kit
Save over 20% with this great machine addition kit. Includes: (2) blast gates, (1) machine adapter, (10) pipe clamps, (2) pipe hangers, (2) 5' straight pipes, (2) adjustable nipples, (1) branch, and (1) 60˚ elbow.

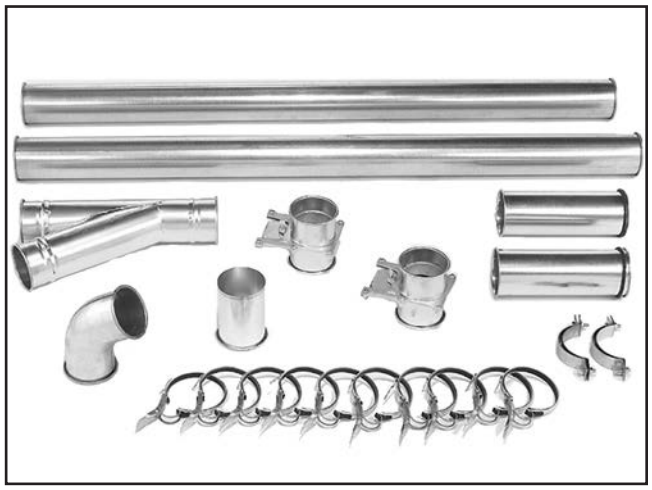


Figure 68. Metal Duct Machine Addition Kit.

G6162—4" x 5' Straight Metal Pipe
G7346—5" x 5' Straight Metal Pipe
G7364—6" x 5' Straight Metal Pipe
H5227—7" x 5' Straight Metal Pipe
H5237—8" x 5' Straight Metal Pipe
These laser welded straight pipes ensure a super smooth internal seam. Ends easily clamp together for a sealed fit without screws or silicone.

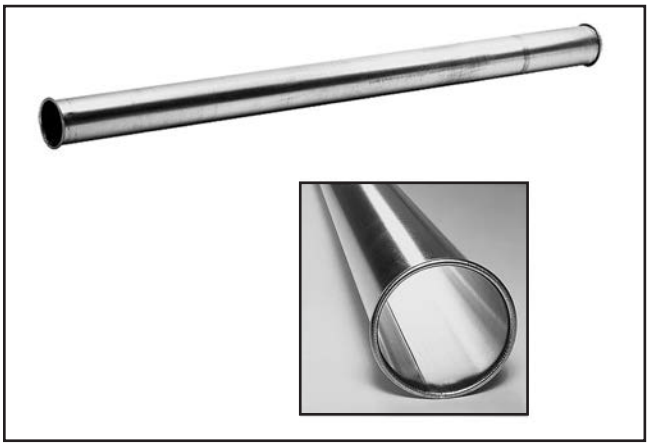


Figure 69. Straight Metal Pipe.

H7216—5" x 5' Rigid Metal Flex Hose
H7217—6" x 5' Rigid Metal Flex Hose
H7218—7" x 5' Rigid Metal Flex Hose
H7219—8" x 5' Rigid Metal Flex Hose
This flex hose provides just enough flexibility to make difficult connections while still keeping the inside wall as smooth as possible to minimize static pressure loss.

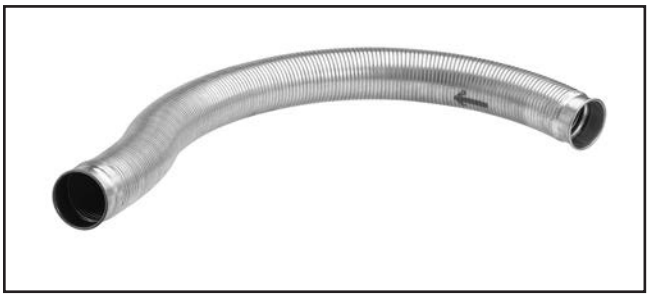
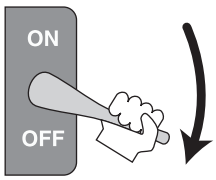


Figure 70. Rigid Metal Flex Hose.

SECTION 7: MAINTENANCE



⚠WARNING
Always disconnect power to the machine before performing maintenance. Failure to do this may result in serious personal injury.

Schedule

For optimum performance from your machine, check the following items during operation. If you notice a problem, resolve it before continuing operation. At the end of the day, make sure the machine is turned ***OFF*** and disconnected from power.

During Operations:
- Dust collection drums and bags.
- Check/repair loose mounting bolts.
- Pressure leaks.
- Worn or damaged wires.
- Any other condition that would hamper the safe and efficient operation of this machine.

Emptying Drum

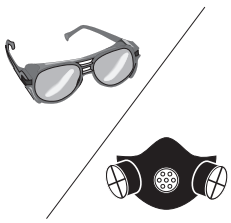
Empty the collection drum when it is no more than ¾ full. If the drum becomes overfilled, the chips will be sucked back into the intake barrel and passed through to the canister filters.

How quickly the drum will fill up is based on the type of work being done at the time.

When first using the machine, check the drum regularly to get an idea of how often it needs to be emptied.

Cleaning Filters

The Model G0442/G0601 dust collector has a gentle brush system inside the canisters for removing any built-up dust from the filter pleats.



⚠CAUTION
To avoid injury to your eyes and lungs from fine airborne particles, always wear safety glasses and a respirator when working with the dust collection bags.

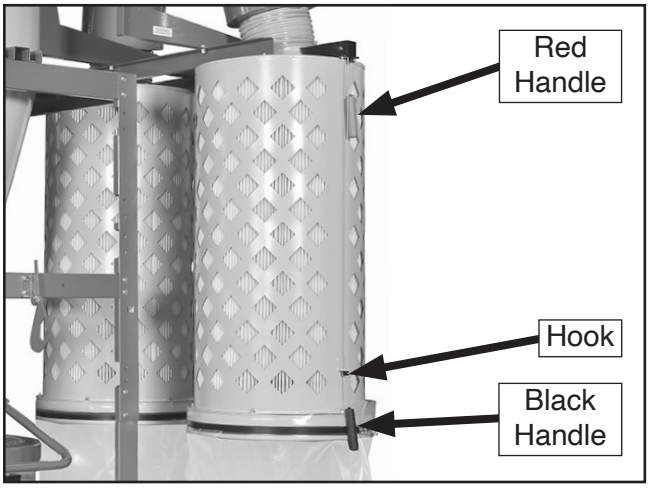


Figure 71. Brush handles for cleaning canister filters.

To clean the filters, pull the red handles down all the way, then pull the black handles down and hook them in place.

Note: *Always make sure to leave the red handles in the up position to ensure that the brushes return to their proper position and do not restrict the filter.*

Rinsing Filter

For a thorough cleaning, the filter can be removed and rinsed off. However, make sure to clean the filter with the brush system first. Allow the filter to air dry. Do not use compressed air on the pleated filter or leave it in the sun to dry—this could damage it.

Removing/Replacing Filter

The filter for the Model G0442/G0601 manufactured since November, 2009, can be removed from the assembly for replacement or rinsing.

Removing/installing the filter requires disconnecting the canister filter assembly from the dust collector and disassembling it. Follow the instructions below to perform this procedure.

Refer to the parts breakdown diagrams and listings beginning on **Page 52** to order the correct filter from Grizzly at 800-523-4777.

Tools Needed	**Qty**
Open-End Wrench 10mm	1
Wrench or Socket 12mm	2

To replace the canister filter:

1. DISCONNECT MACHINE FROM POWER!

2. Use the brush handles to knock the built-up dust from the filter pleats, then remove the bag clamp and collection bag from the canister assembly.

3. Pull the black handle all the way down and secure the cable into the handle hook at the bottom of the canister assembly, as shown in **Figure 72**, to hold it in place during the following steps.

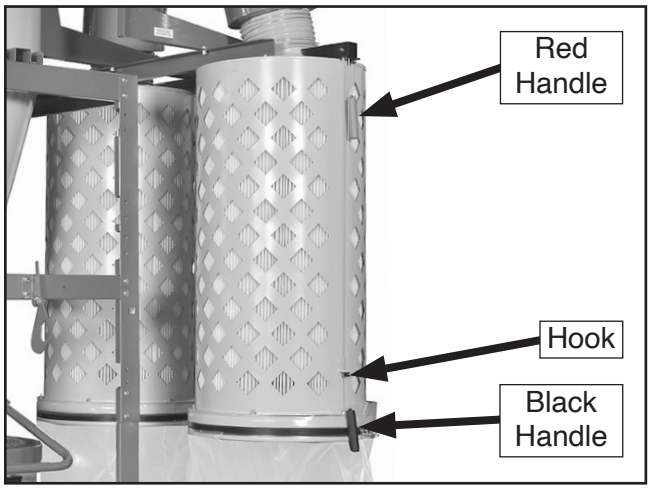


Figure 72. Brush handles in correct position for filter removal.

4. Remove the canister assembly from the dust collector and place it right-side up on a stable, flat surface.

5. Remove the six hex bolts, hex nuts, and flat washers from the rim of the canister base, as shown in **Figure 73**.

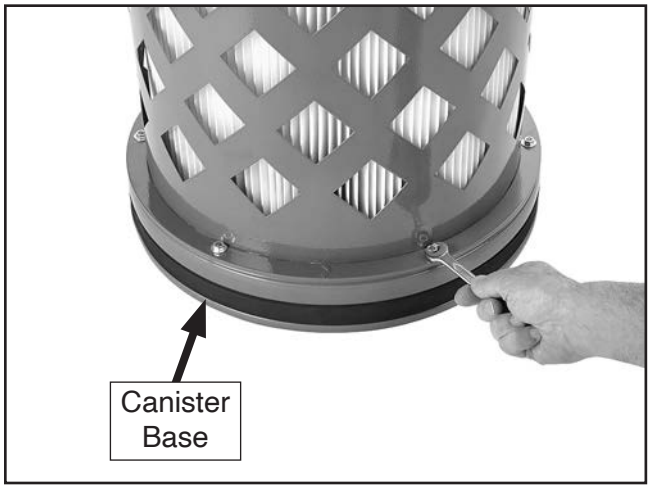


Figure 73. Example of removing hex nuts and flat washers from rim of canister base.

6. With help from another person to steady the canister assembly, turn it upside down and remove the two hex bolts, hex nuts, and flat washers from the cross support (see **Figure 74**), then remove the canister base from the assembly.

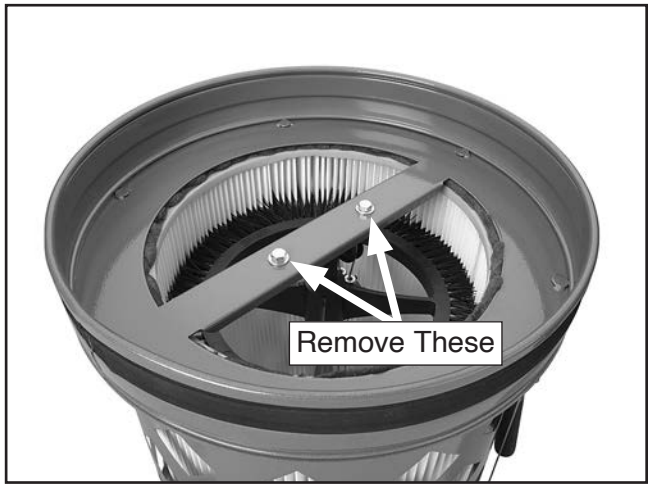


Figure 74. Example of cross support fasteners.

7. Carefully lift the filter from the canister assembly, as shown in **Figure 75**.

Figure 75. Example of removing filter from the canister assembly.

8. Before re-inserting the filter into the assembly, make sure that the filter brush base is aligned with two of the fastener holes around the base of the assembly (see **Figure 76**). This will allow the canister base to align with the fastener holes around the brush base.

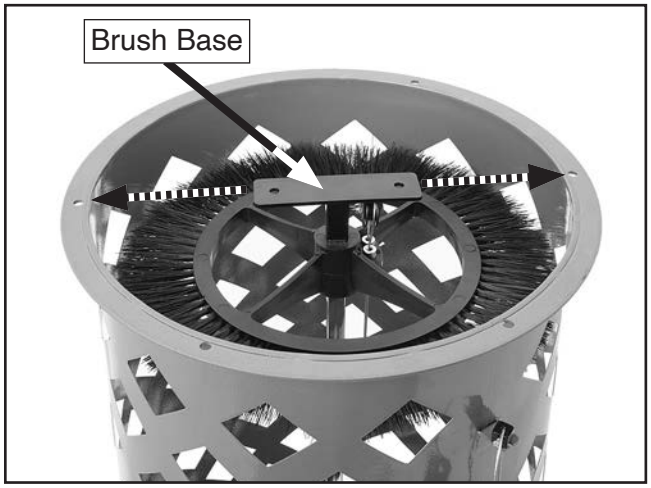


Figure 76. Example of filter brush base aligned with assembly fastener holes.

9. Re-insert the filter into the canister assembly.

   Note: *Make sure the bristles of the brush are pointed straight into the pleats to ensure efficient cleaning of the filter when needed.*

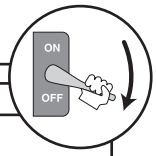
10. Attach the canister base in the reverse order from which you removed it in **Step 6**.

11. Attach the canister assembly to the dust collector, then secure a new collection bag to it with the bag clamp.

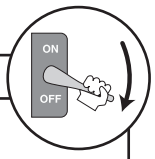
SECTION 8: SERVICE

Review the troubleshooting and procedures in this section to fix or adjust the machine if a problem develops. If you need replacement parts or you are unsure of your repair skills, then feel free to call our Technical Support at (570) 546-9663.

Troubleshooting



Symptom	Possible Cause	Possible Solution
Machine does not start or a breaker trips.	1. Wall fuse/circuit breaker is blown/tripped.	1. Ensure circuit size is suitable for this machine; replace weak breaker.
	2. Power supply switched OFF or is at fault.	2. Ensure power supply is switched on; ensure power supply has the correct voltage.
	3. Fuse has blown.	3. Correct short/replace fuse in control box.
	4. Hand-held remote controller is at fault.	4. Replace batteries in hand-held remote controller; stay in line-of-sight view and signal range.
	5. (G0442) Start capacitor at fault.	5. Replace start capacitor.
	6. Receiver is at fault.	6. Inspect receiver computer board; replace if faulty.
	7. Motor connection wired incorrectly.	7. Correct motor wiring connections (**Pages 49 & 50**).
	8. Thermal overload relay has tripped.	8. Turn cut-out dial to increase working amps and push the reset pin. Replace if tripped multiple times (weak relay).
	9. Contactor not getting energized/has burnt contacts.	9. Test for power on all legs and contactor operation. Replace unit if faulty.
	10. Wiring is open/has high resistance.	10. Check for broken wires or disconnected/corroded connections, and repair/replace as necessary.
	11. Motor start switch or ON/OFF button is at fault.	11. Replace faulty ON button or ON/OFF switch.
	12. Circuit board is at fault.	12. Inspect circuit board; replace if faulty.
	13. Motor is at fault.	13. Test/repair/replace.
Machine has vibration or noisy operation.	1. Motor or component is loose.	1. Inspect/replace stripped or damaged bolts/nuts, and re-tighten with thread locking fluid.
	2. Machine is incorrectly mounted or sits unevenly.	2. Tighten/replace anchor studs in floor; relocate/shim machine.
	3. Motor fan is rubbing on fan cover.	3. Replace dented fan cover; replace loose/damaged fan.
	4. Motor bearings are at fault.	4. Test by rotating shaft; rotational grinding/loose shaft requires bearing replacement.



Symptom	Possible Cause	Possible Solution
Loud, repetitious noise, or excessive vibration coming from dust collector.	1. Dust collector is not on a flat surface and wobbles. 2. Impeller is loose or damaged and unbalanced. 3. The motor mounting or housing connections are loose. 4. Impeller is loose on the motor shaft. 5. Motor fan cover is dented, causing the motor fan to hit the cover while spinning.	1. Stabilize the dust collector. 2. Disconnect dust collector from power, and inspect the impeller for dents, bends, loose fins. Replace impeller if any damage is found. 3. Make sure all fasteners on the dust collector are tight. 4. Replace the motor and impeller as a set if the motor shaft and the impeller hub are damaged. 5. Replace motor fan cover.
Dust collector does not adequately collect dust or chips; poor performance.	1. Dust collection bags are full. 2. Filters are dirty. 3. (G0601) Motor is wired out of phase and the impeller is rotating in the wrong direction (clockwise). 4. There is a restriction in the duct line. 5. The dust collector is too far away from the point of suction, or there are too many sharp bends in the ducting. 6. The lumber is wet and dust is not flowing through the ducting smoothly. 7. There is a leak in the ducting, or a series of small leaks, or too many open ports. 8. There are not enough open branch lines at one time, thereby causing a velocity drop in the main line. 9. The ducting and ports are incorrectly sized. 10. The machine dust collection design is inadequate. 11. The dust collector is too small for the dust collection system.	1. Empty collection bags. 2. Clean filters. 3. (G0601) Motor is receiving power out-of-phase. Disconnect the machine from power, then swap any two of the incoming hot power leads terminated inside the control box (see **Step 10** on **Page 29**). 4. Remove dust line from dust collector inlet and unblock the restriction in the duct line. A plumbing snake may be necessary. 5. Relocate the dust collector closer to the point of suction, and rework ducting without sharp bends. Refer to **Designing Ducting System**, beginning on **Page 32**. 6. Process lumber with less than 20% moisture content. 7. Rework the ducting to eliminate all leaks. Close dust ports for lines not being used. Refer to **Designing Ducting System** beginning on **Page 32** for more solutions. 8. Open 1 or 2 more blast gates to different branch lines to allow the velocity in the main line to increase. 9. Reinstall correctly sized ducts and fittings. Refer to **Designing Ducting System** beginning on **Page 32** for more solutions. 10. Use a dust collection nozzle on a stand. 11. Install a larger dust collector to power your dust collection system.
Sawdust being blown into the air from the dust collector.	1. Duct clamps or dust collection bags are not properly clamped and secured. 2. Cylinder or funnel seals are loose or damaged.	1. Re-secure ducts and dust collection bag, making sure duct and bag clamps are tight and completely over the ducts and bags. 2. Retighten all mounting and sealing points, replace damaged gaskets.

SECTION 9: 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. 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.

⚠WARNING
Wiring Safety Instructions

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

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

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

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

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

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

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

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

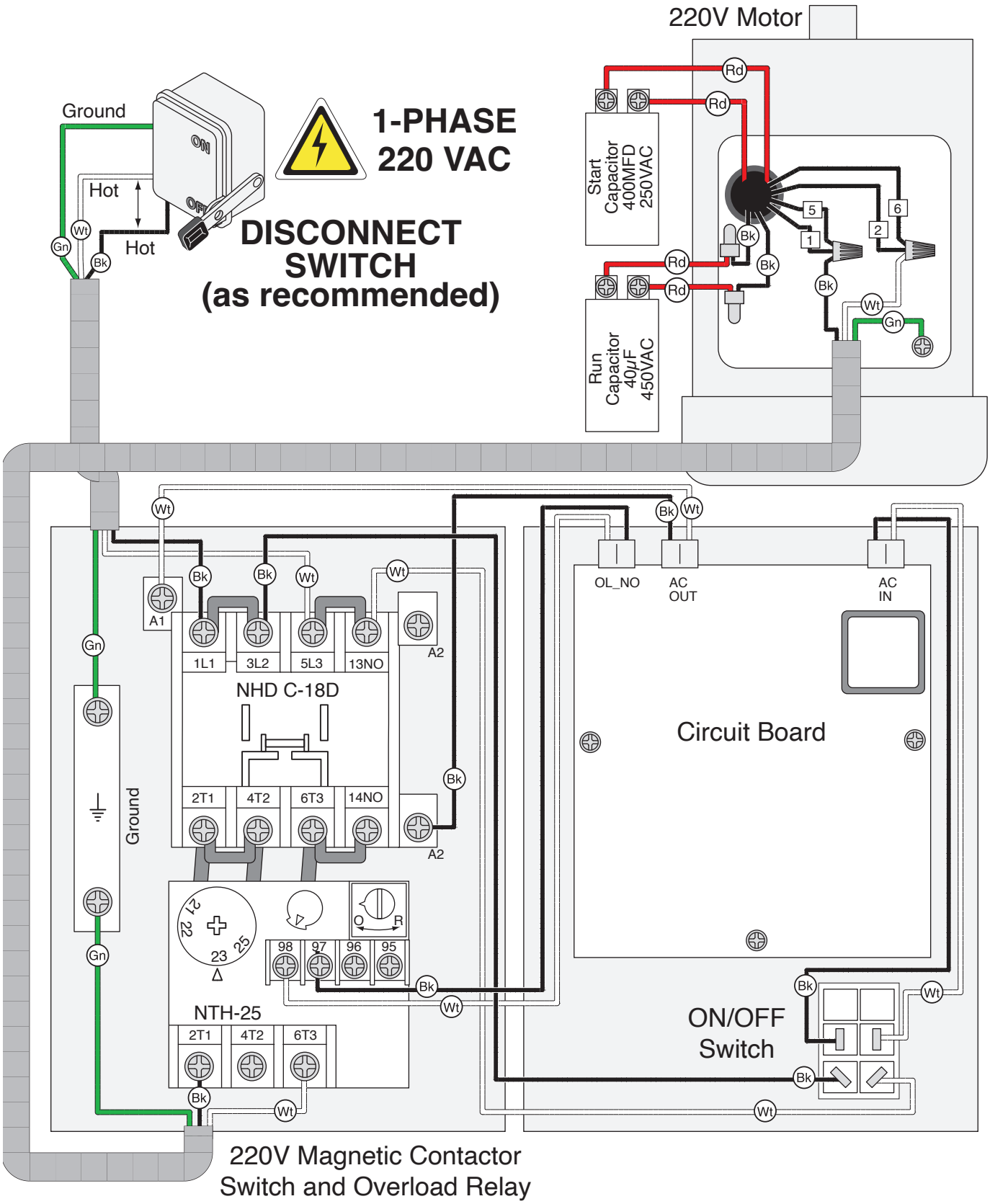
NOTICE

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	Bk	BLUE	Bl	YELLOW	Yl	LIGHT BLUE	Lb
WHITE	Wt	BROWN	Br	YELLOW GREEN	Yg	BLUE WHITE	Bw
GREEN	Gn	GRAY	Gy	PURPLE	Pu	TURQUOISE	Tu
RED	Rd	ORANGE	Or	PINK	Pk		

G0442 Wiring Diagram



STOP *READ ELECTRICAL SAFETY ON PAGE 50!*

G0442 Electrical Components

Figure 77. Motor wiring.

Figure 79. Junction box.

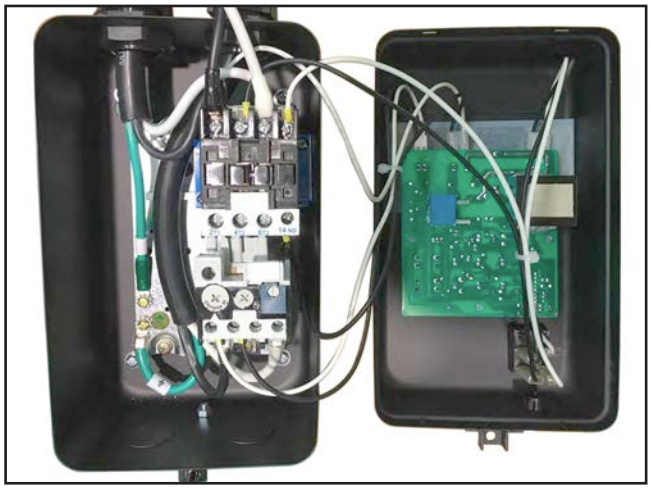
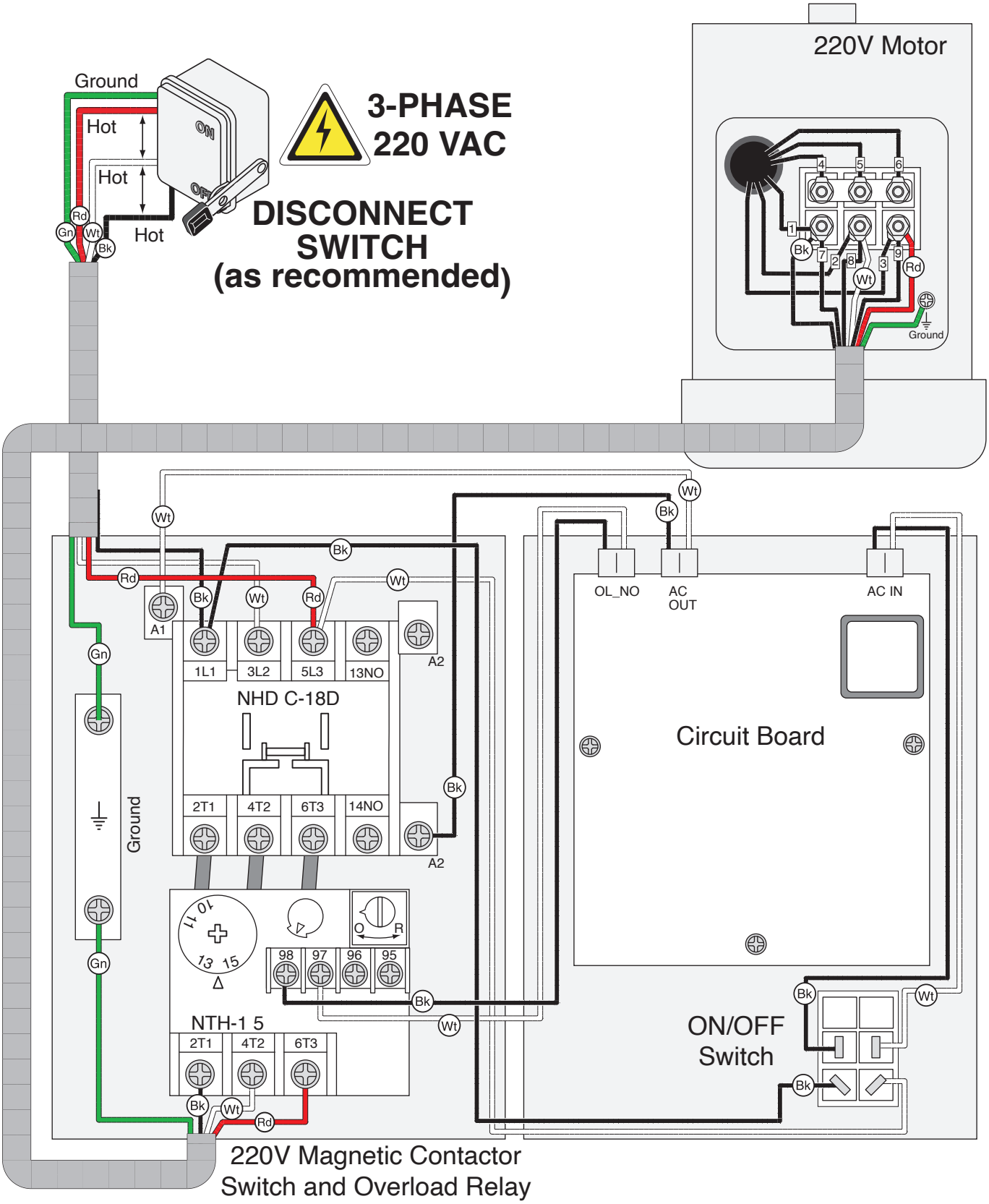
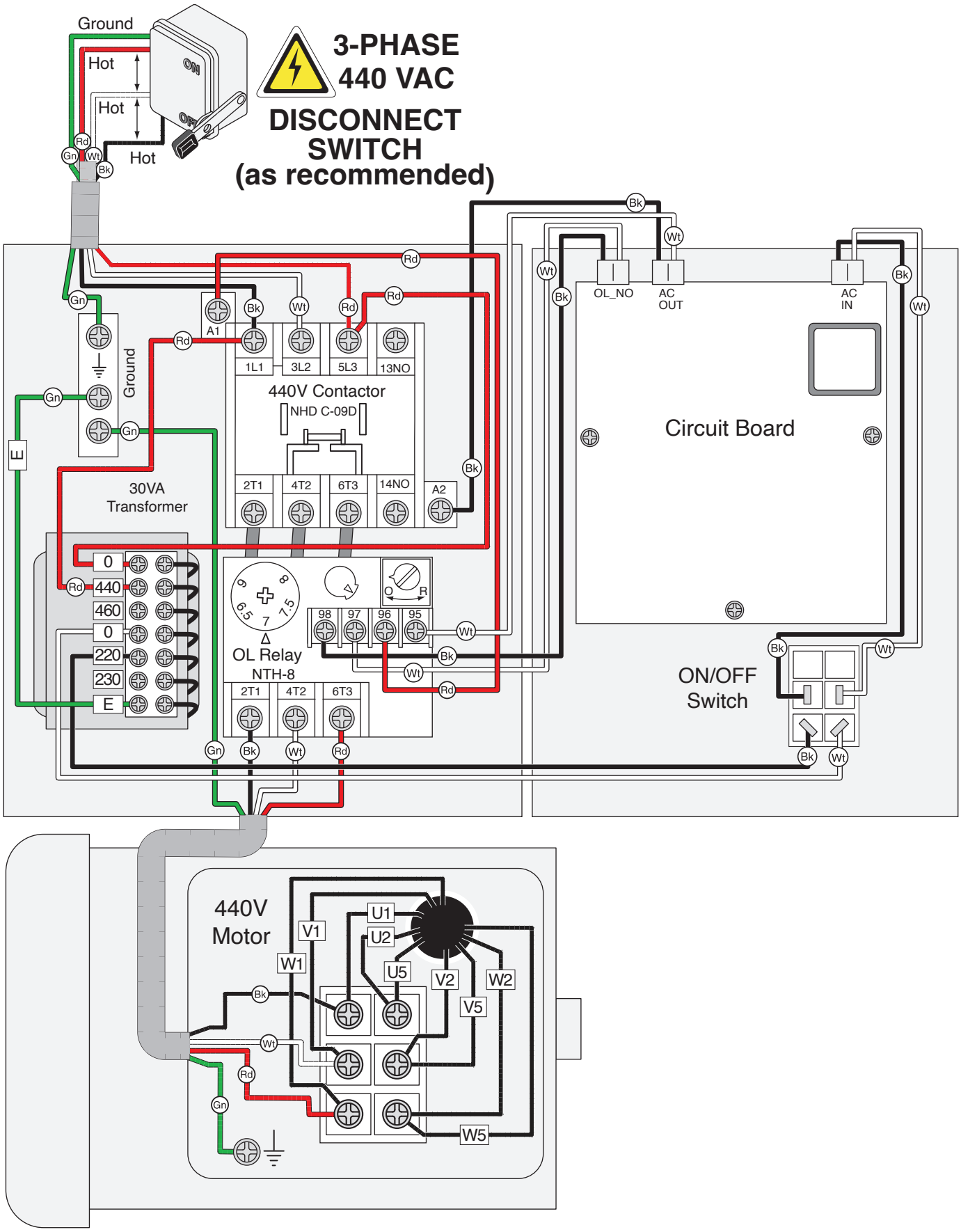


Figure 78. Control box wiring.

G0601 220V Wiring Diagram



G0601 440V Wiring Diagram



STOP *READ ELECTRICAL SAFETY ON PAGE 50!*

G0601 Electrical Components 220V

Figure 80. Motor wired for 220V operation.

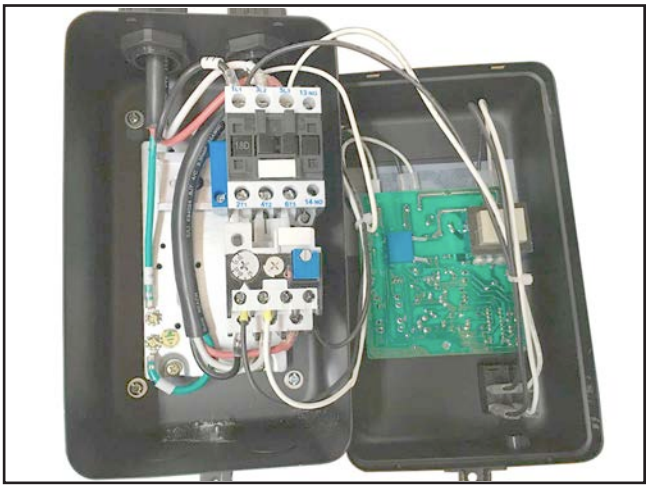


Figure 81. Control box wired for 220V operation.

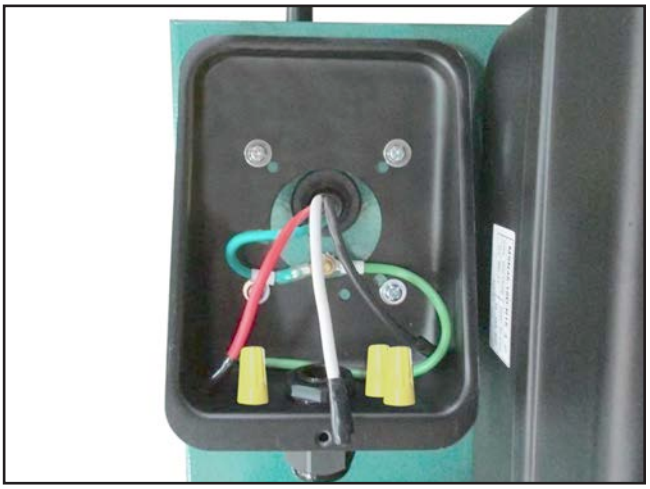


Figure 82. Junction box.

G0601 Electrical Components 440V

Figure 83. Motor wired for 440V operation.

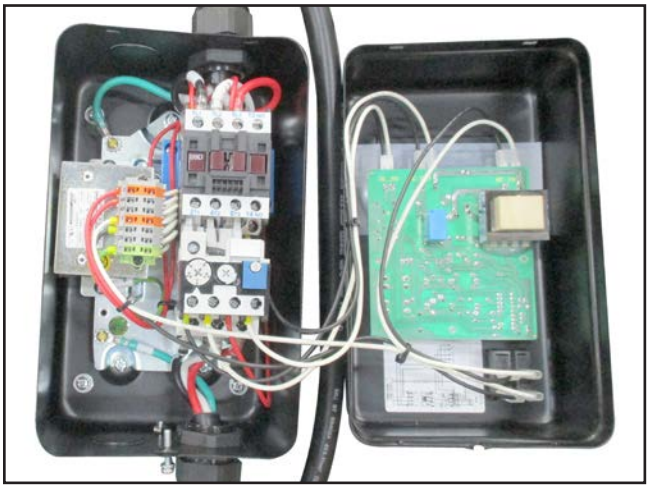
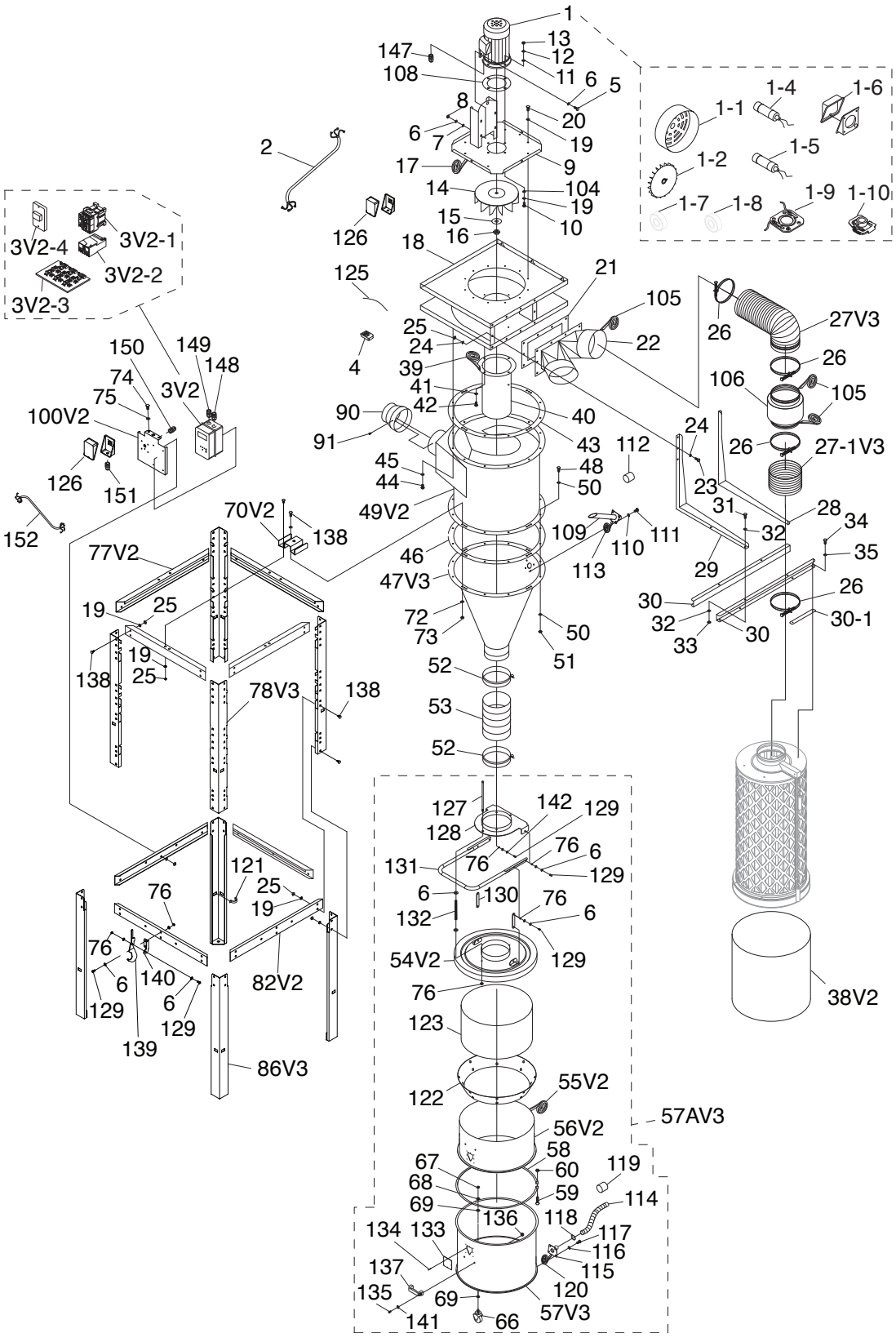


Figure 84. Control box wired for 440V operations.

SECTION 10: PARTS

G0442 Main Parts



G0442 Main Parts List

REF	PART #	DESCRIPTION
1	P0442001	MOTOR 5HP 220V 1-PH
1-1	P0442001-1	MOTOR FAN COVER
1-2	P0442001-2	MOTOR FAN
1-4	P0442001-4	S CAPACITOR 400M 250V 1-3/4 X 3-3/4
1-5	P0442001-5	R CAPACITOR 40M 450V
1-6	P0442001-6	JUNCTION BOX
1-7	P0442001-7	BALL BEARING 6207ZZ
1-8	P0442001-8	BALL BEARING 6205ZZ
1-9	P0442001-9	CONTACT PLATE
1-10	P0442001-10	CENTRIFUGAL SWITCH 3450 RPM
2	P0442002	MOTOR CORD 12G 3W
3V2	P0442003V2	CONTROL BOX ASSY 220V 1-PH CSA V2.04.12
3V2-1	P0442003V2-1	CONTACTOR NHD C-18D 220V V2.04.12
3V2-2	P0442003V2-2	OL RELAY NHD NTH-25 21-25A
3V2-3	P0442003V2-3	CIRCUIT BOARD
3V2-4	P0442003V2-4	ON/OFF SWITCH 220V
4	P0442004	REMOTE CONTROLLER
5	P0442005	HEX BOLT 3/8-16 X 1-1/2
6	P0442006	FLAT WASHER 3/8
7	P0442007	LOCK WASHER 3/8
8	P0442008	HEX NUT 3/8-16
9	P0442009	BLOWER COVER
10	P0442010	HEX BOLT 1/2-13 X 1-1/2
11	P0442011	FENDER WASHER 1/2"
12	P0442012	LOCK WASHER 1/2
13	P0442013	HEX NUT 1/2-13
14	P0442014	IMPELLER 16"
15	P0442015	FLAT WASHER 3/4
16	P0442016	HEX NUT 3/4-16 LH
17	P0442017	FOAM TAPE 3 X 6 X 1800MM
18	P0442018	IMPELLER HOUSING
19	P0442019	FLAT WASHER 5/16
20	P0442020	HEX BOLT 5/16-18 X 3/4
21	P0442021	OUTLET GASKET 456 X 226MM
22	P0442022	OUTLET PORT
23	P0442023	HEX BOLT 5/16-18 X 1
24	P0442024	FLAT WASHER 5/16
25	P0442025	HEX NUT 5/16-18
26	P0442026	HOSE CLAMP 8"
27-1V3	P0442027-1V3	FLEXIBLE HOSE 8" X 4-3/4" V3.11.09
27V3	P0442027V3	FLEXIBLE HOSE 8" X 23-1/2" V3.11.09
28	P0442028	LEFT FILTER L-BRACE
29	P0442029	RIGHT FILTER L-BRACE
30	P0442030	FILTER CROSS BRACE
30-1	P0442030-1	BRACE GASKET 240 X 32MM
31	P0442031	HEX BOLT 3/8-16 X 3/4
32	P0442032	FLAT WASHER 3/8
33	P0442033	HEX NUT 3/8-16
34	P0442034	HEX BOLT 5/16-18 X 3/4
35	P0442035	FLAT WASHER 5/16
38V2	P0442038V2	PLASTIC BAG 570 X 600MM V2.11.09
39	P0442039	FOAM TAPE 3 X 6 X 1800MM
40	P0442040	INTAKE CYLINDER 12"
41	P0442041	FLAT WASHER 5/16
42	P0442042	HEX BOLT 5/16-18 X 3/4
43	P0442043	BARREL GASKET 686MM DIA.

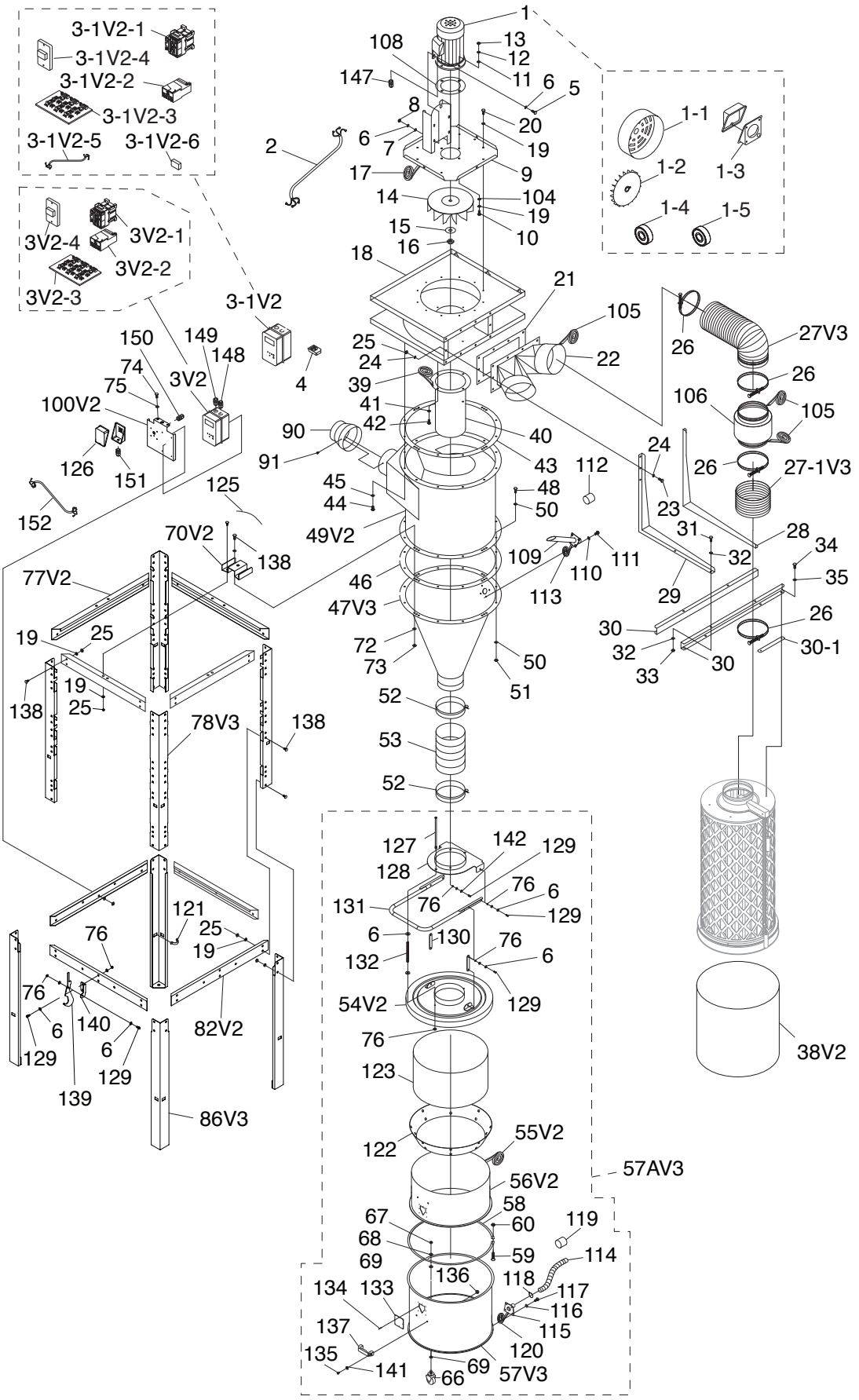
REF	PART #	DESCRIPTION
44	P0442044	HEX BOLT 5/16-18 X 3/4
45	P0442045	FLAT WASHER 5/16
46	P0442046	BARREL GASKET 686MM DIA.
47V3	P0442047V3	CYCLONE FUNNEL V3.07.20
48	P0442048	HEX BOLT 5/16-18 X 1
49V2	P0442049V2	INTAKE BARREL V2.07.20
50	P0442050	FLAT WASHER 5/16
51	P0442051	HEX NUT 5/16-18
52	P0442052	HOSE CLAMP 9"
53	P0442053	CLEAR FLEXIBLE PIPE 9" X 10"
54V2	P0442054V2	COLLECTION DRUM LID V2.07.20
55V2	P0442055V2	DRUM SEAL TYPE-R 2M V2.11.09
56V2	P0442056V2	UPPER DRUM 25GAL V2.07.20
57AV3	P0442057AV3	COLLECTION DRUM ASSY 55GAL V3.07.20
57V3	P0442057V3	COLLECTION DRUM 35GAL V3.07.20
58	P0442058	DRUM CLAMP
59	P0442059	HEX BOLT 5/16-18 X 3
60	P0442060	HEX NUT 5/16-18
66	P0442066	CASTER 2"
67	P0442067	HEX NUT 3/8-16
68	P0442068	LOCK WASHER 3/8
69	P0442069	FLAT WASHER 3/8
70V2	P0442070V2	COLLECTOR MOUNTING BRACKET V2.07.20
72	P0442072	FLAT WASHER 5/16
73	P0442073	LOCK NUT 5/16-18
74	P0442074	HEX BOLT 3/8-16 X 3/4
75	P0442075	FLAT WASHER 3/8
76	P0442076	LOCK NUT 3/8-16
77V2	P0442077V2	UPPER STAND BRACE V2.07.20
78V3	P0442078V3	UPPER STAND LEG V3.07.20
82V2	P0442082V2	LOWER STAND BRACE V2.07.20
86V3	P0442086V3	LOWER STAND LEG V3.07.20
90	P0442090	REDUCER 10" TO 8"
91	P0442091	TAP SCREW M4 X 12
100V2	P0442100V2	STAND SWITCH BRACKET CSA V2.03.12
104	P0442104	EXT TOOTH WASHER 1/2
105	P0442105	FOAM TAPE 3 X 15 X 700MM
106	P0442106	NOISE MUFFLER 8"
108	P0442108	MOTOR GASKET
109	P0442109	CYCLONE VACUUM PORT
110	P0442110	FLAT WASHER 5/16
111	P0442111	HEX BOLT 5/16-18 X 3/4
112	P0442112	PORT PLUG 1-1/4"
113	P0442113	FOAM TAPE 3 X 6 X 300MM
114	P0442114	VACUUM HOSE 1-1/4" X 98"
115	P0442115	COLLECTION DRUM VACUUM PORT
116	P0442116	FLAT WASHER 5/16
117	P0442117	HEX BOLT 5/16-18 X 3/4
118	P0442118	HOSE CLAMP 1-1/4"
119	P0442119	PORT PLUG 1-1/4"
120	P0442120	FOAM TAPE 3 X 6 X 300MM
121	P0442121	VACUUM HOSE CLIP 2-1/2"
122	P0442122	COLLECTION DRUM VACUUM RING
123	P0442123	DRUM COLLECTION BAG 640 X 1200MM
125	P0442125	GREEN GROUNDING WIRE 12G 6"
126	P0442126	JUNCTION BOX

G0442 Main Parts List Cont.

REF	PART #	DESCRIPTION
127	P0442127	HEX BOLT 3/8-16 X 11
128	P0442128	CYCLONE FUNNEL ADAPTER
129	P0442129	HEX BOLT 3/8-16 X 1
130	P0442130	DRUM LID CONNECTING PLATE
131	P0442131	COLLECTION LID HANDLE
132	P0442132	DRUM LID SPRING
133	P0442133	DRUM WINDOW
134	P0442134	RIVET
135	P0442135	PHLP HD SCR 5/16-18 X 3/4
136	P0442136	ACORN NUT 5/16-18
137	P0442137	COLLECTION DRUM HANDLE PLASTIC

REF	PART #	DESCRIPTION
138	P0442138	CARRIAGE BOLT 5/16-18 X 3/4
139	P0442139	HANDLE HOOK
140	P0442140	HANDLE HOOK BRACKET
141	P0442141	FENDER WASHER 5/16
142	P0442142	FLAT WASHER 3/8 THIN
147	P0442147	STRAIN RELIEF M20-1.5
148	P0442148	STRAIN RELIEF M20-1.5
149	P0442149	STRAIN RELIEF M20-1.5
150	P0442150	STRAIN RELIEF M20-1.5
151	P0442151	STRAIN RELIEF M20-1.5
152	P0442152	CONTROL BOX CORD 10G 3W 650MM

G0601 Main Parts



G0601 Main Parts List

REF	PART #	DESCRIPTION
1	P0601001	MOTOR 5HP 220/440V 3-PH
1-1	P0601001-1	MOTOR FAN COVER
1-2	P0601001-2	MOTOR FAN
1-3	P0601001-3	JUNCTION BOX
1-4	P0601001-4	FRONT MOTOR BEARING
1-5	P0601001-5	REAR MOTOR BEARING
2	P0601002	MOTOR CORD 12G 4W 300V
3V2	P0601003V2	CONTROL BOX ASSY 220V 3-PH CSA V2.04.12
3V2-1	P0601003V2-1	CONTACTOR NHD C-18D 220V
3V2-2	P0601003V2-2	OL RELAY NHD NTH-15 10–15A
3V2-3	P0601003V2-3	CIRCUIT BOARD 220V W/TRANSFORMER
3V2-4	P0601003V2-4	ON/OFF SWITCH 220V
3-1V2	P0601003-1V2	CONTROL BOX ASSY 440V 3-PH CSA V2.04.12
3-1V2-1	P0601003-1V2-1	CONTACTOR NHD C-09D 440V
3-1V2-2	P0601003-1V2-2	OL RELAY NHD NTH-08 6–8A
3-1V2-3	P0601003-1V2-3	CIRCUIT BOARD
3-1V2-4	P0601003-1V2-4	ON/OFF SWITCH 440V
3-1V2-5	P0601003-1V2-5	MOTOR CORD 12G 4W 600V
3-1V2-6	P0601003-1V2-6	SWITCH TRANSFORMER 30VA
4	P0601004	REMOTE CONTROLLER
5	P0601005	HEX BOLT 3/8-16 X 1-1/2
6	P0601006	FLAT WASHER 3/8
7	P0601007	LOCK WASHER 3/8
8	P0601008	HEX NUT 3/8-16
9	P0601009	BLOWER COVER
10	P0601010	HEX BOLT 1/2-13 X 1-1/2
11	P0601011	FLAT WASHER 1/2
12	P0601012	LOCK WASHER 1/2
13	P0601013	HEX NUT 1/2-13
14	P0601014	IMPELLER 16"
15	P0601015	FLAT WASHER 3/4
16	P0601016	HEX NUT 3/4-16 LH
17	P0601017	FOAM TAPE 3 X 6 X 1800MM
18	P0601018	IMPELLER HOUSING
19	P0601019	FLAT WASHER 5/16
20	P0601020	HEX BOLT 5/16-18 X 3/4
21	P0601021	OUTLET GASKET 456 X 226MM
22	P0601022	OUTLET PORT
23	P0601023	HEX BOLT 5/16-18 X 1
24	P0601024	FLAT WASHER 5/16
25	P0601025	HEX NUT 5/16-18
26	P0601026	HOSE CLAMP 8"
27-1V3	P0601027-1V3	FLEXIBLE HOSE 8" X 4-3/4" V3.11.09
27V3	P0601027V3	FLEXIBLE HOSE 8" X 23-1/2" V3.11.09
28	P0601028	LEFT FILTER L-BRACE
29	P0601029	RIGHT FILTER L-BRACE
30	P0601030	FILTER CROSS BRACE
30-1	P0601030-1	BRACE GASKET 240 X 32MM
31	P0601031	HEX BOLT 3/8-16 X 3/4
32	P0601032	FLAT WASHER 3/8
33	P0601033	HEX NUT 3/8-16
34	P0601034	HEX BOLT 5/16-18 X 3/4
35	P0601035	FLAT WASHER 5/16
38V2	P0601038V2	PLASTIC BAG 570 X 600MM V2.11.09
39	P0601039	FOAM TAPE 3 X 6 X 1600MM
40	P0601040	INTAKE CYLINDER 12"
41	P0601041	FLAT WASHER 5/16
42	P0601042	HEX BOLT 5/16-18 X 3/4

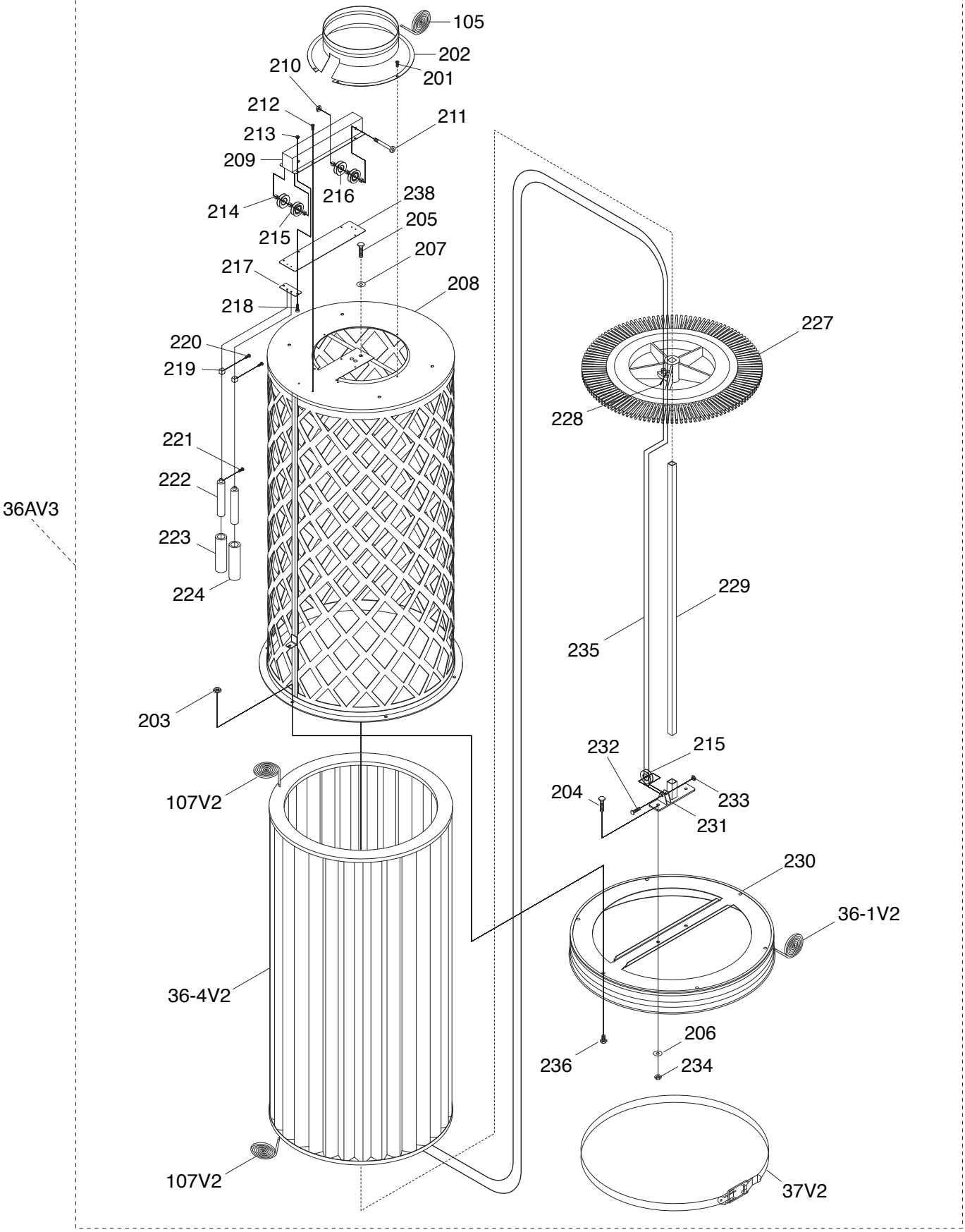
REF	PART #	DESCRIPTION
43	P0601043	BARREL GASKET 686MM DIA.
44	P0601044	HEX BOLT 5/16-18 X 3/4
45	P0601045	FLAT WASHER 5/16
46	P0601046	BARREL GASKET 686MM DIA.
47V3	P0601047V3	CYCLONE FUNNEL V3.07.20
48	P0601048	HEX BOLT 5/16-18 X 1
49V2	P0601049V2	INTAKE BARREL V2.07.20
50	P0601050	FLAT WASHER 5/16
51	P0601051	HEX NUT 5/16-18
52	P0601052	HOSE CLAMP 9"
53	P0601053	CLEAR FLEXIBLE PIPE 9" X 10"
54V2	P0601054V2	COLLECTION DRUM LID V2.07.20
55V2	P0601055V2	DRUM SEAL TYPE-R 2M V2.11.09
56V2	P0601056V2	UPPER DRUM 25GAL V2.07.20
57AV3	P0601057AV3	COLLECTION DRUM ASSY 55GAL V3.07.20
57V3	P0601057V3	COLLECTION DRUM 35GAL V3.07.20
58	P0601058	DRUM CLAMP
59	P0601059	HEX BOLT 5/16-18 X 3
60	P0601060	HEX NUT 5/16-18
66	P0601066	CASTER 2"
67	P0601067	HEX NUT 3/8-16
68	P0601068	LOCK WASHER 3/8
69	P0601069	FLAT WASHER 3/8
70V2	P0601070V2	COLLECTOR MOUNTING BRACKET V2.07.20
72	P0601072	FLAT WASHER 5/16
73	P0601073	LOCK NUT 5/16-18
74	P0601074	HEX BOLT 3/8-16 X 3/4
75	P0601075	FLAT WASHER 3/8
76	P0601076	HEX NUT 3/8-16
77V2	P0601077V2	UPPER STAND LEG V3.07.20
78V3	P0601078V3	UPPER STAND LEG V2.08.11
82V2	P0601082V2	LOWER STAND BRACE V2.07.20
86V3	P0601086V3	LOWER STAND LEG V3.07.20
90	P0601090	REDUCER 10" TO 8"
91	P0601091	TAP SCREW M4 X 12
100V2	P0601100V2	STAND SWITCH BRACKET CSA V2.03.12
104	P0601104	EXT TOOTH WASHER 1/2
105	P0601105	FOAM TAPE 3 X 15 X 700MM
106	P0601106	NOISE MUFFLER 8"
108	P0601108	MOTOR GASKET
109	P0601109	CYCLONE VACUUM PORT
110	P0601110	FLAT WASHER 5/16
111	P0601111	HEX BOLT 5/16-18 X 3/4
112	P0601112	PORT PLUG 1-1/24"
113	P0601113	FOAM TAPE 3 X 6 X 300MM
114	P0601114	VACUUM HOSE 1-1/4" X 98"
115	P0601115	COLLECTION DRUM VACUUM PORT
116	P0601116	FLAT WASHER 5/16
117	P0601117	HEX BOLT 5/16-18 X 3/4
118	P0601118	HOSE CLAMP 1-1/4"
119	P0601119	PORT PLUG 1-1/24"
120	P0601120	FOAM TAPE 3 X 6 X 300MM
121	P0601121	VACUUM HOSE CLIP 2-1/2"
122	P0601122	COLLECTION DRUM VACUUM RING
123	P0601123	DRUM COLLECTION BAG 640 X 1200MM
125	P0601125	GREEN GROUNDING WIRE 12G 6"
126	P0601126	JUNCTION BOX
127	P0601127	HEX BOLT 3/8-16 X 11

G0601 Main Parts List Cont.

REF	PART #	DESCRIPTION
128	P0601128	CYCLONE FUNNEL ADAPTER
129	P0601129	HEX BOLT 3/8-16 X 1
130	P0601130	DRUM LID CONNECTING PLATE
131	P0601131	COLLECTION LID HANDLE
132	P0601132	DRUM LID SPRING
133	P0601133	DRUM WINDOW
134	P0601134	RIVET
135	P0601135	PHLP HD SCR 5/16-18 X 3/4
136	P0601136	ACORN NUT 5/16-18
137	P0601137	COLLECTION DRUM HANDLE PLASTIC
138	P0601138	CARRIAGE BOLT 5/16-18 X 3/4

REF	PART #	DESCRIPTION
139	P0601139	HANDLE HOOK
140	P0601140	HANDLE HOOK BRACKET
141	P0601141	FENDER WASHER 5/16
142	P0601142	FLAT WASHER 3/8 THIN
147	P0601147	STRAIN RELIEF M20-1.5
148	P0601148	STRAIN RELIEF M20-1.5
149	P0601149	STRAIN RELIEF M20-1.5
150	P0601150	STRAIN RELIEF M20-1.5
151	P0601151	STRAIN RELIEF M20-1.5
152	P0601152	CONTROL BOX CORD 12G 4W 650MM

G0442/G0601 Canister Filter Parts

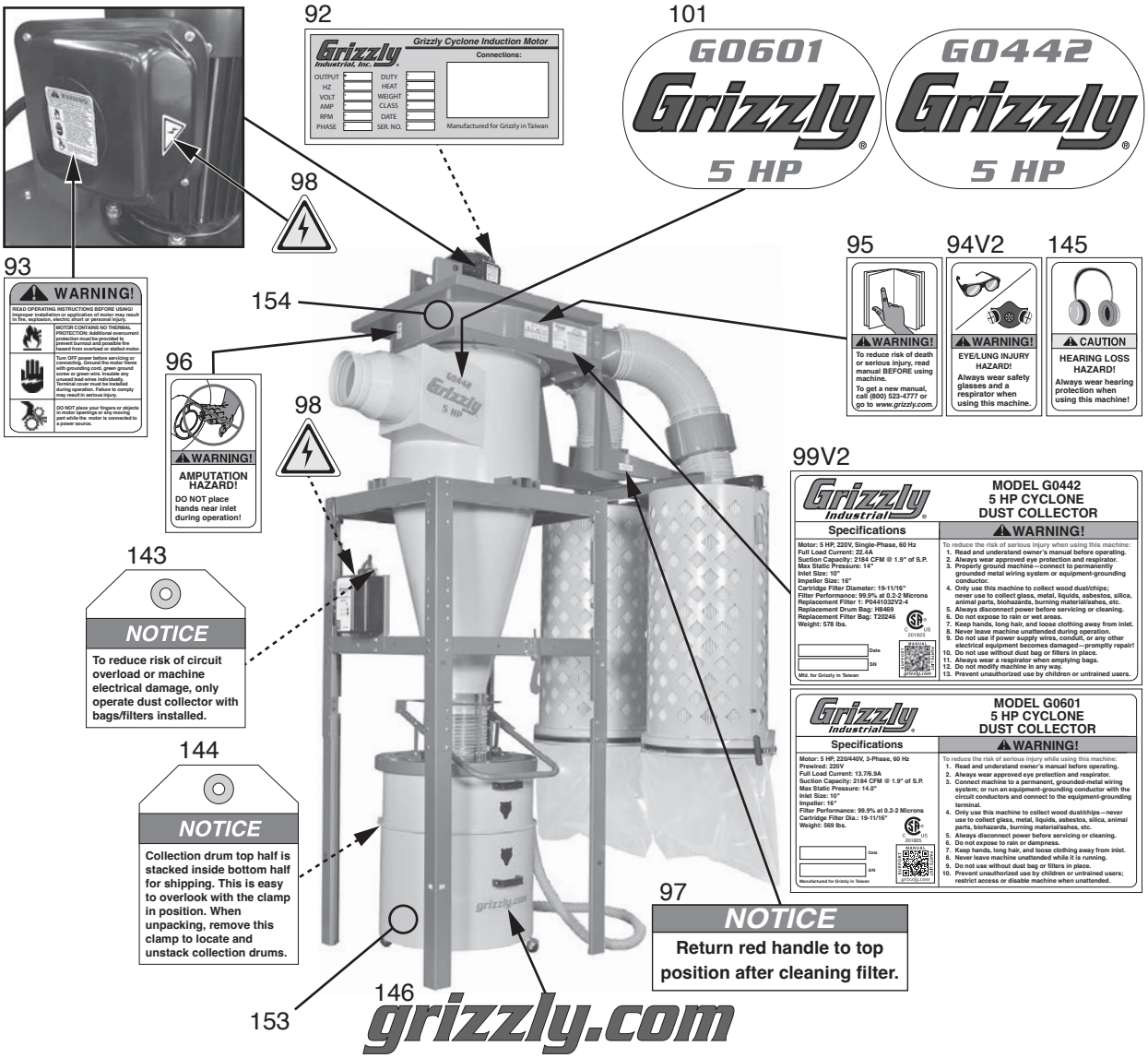


G0442/G0601 Canister Filter Parts List

REF	PART #	DESCRIPTION
36AV2	P0442036AV2	CANISTER ASSEMBLY, GREEN V2.11.09
36-1V2	P0442036-1V2	GASKET 3 X 25 X 1700MM V2.11.09
36-4V2	P0442036-4V2	CANISTER FILTER 486 X 995MM W/TAPE V2.11.09
37V2	P0442037V2	FILTER BAG CLAMP 545MM V2.11.09
105	P0442105	FOAM TAPE 3 X 15 X 700MM
107V2	P0442107V2	GASKET 20 X 35 X 1460MM V2.07.11
201	P0442201	FLAT HD SCR M4-.7 X 12
202	P0442202	INLET ADAPTER 8", CANISTER FILTER
203	P0442203	FLANGE NUT 1/4-20
204	P0442204	HEX BOLT 5/16-18 X 3/4
205	P0442205	HEX BOLT 5/16-18 X 3/4
206	P0442206	FLAT WASHER 5/16
207	P0442207	FLAT WASHER 5/16
208	P0442208	CANISTER FILTER CAGE 500 X 1018MM
209	P0442209	PULLEY COVER
210	P0442210	LOCK NUT M6-1
211	P0442211	CAP SCREW M6-1 X 50
212	P0442212	FLAT HD SCR M4-.7 X 12
213	P0442213	HEX NUT 10-24
214	P0442214	BUSHING 6.4 X 9.5 X 6.9L
215	P0442215	WIRE ROPE PULLEY

REF	PART #	DESCRIPTION
216	P0442216	BALL BEARING 626ZZ
217	P0442217	PULLY COVER PLATE
218	P0442218	PHLP HD SCR 10-24 X 3/8
219	P0442219	WIRE ROPE GUIDE BLOCK
220	P0442220	PHLP HD SCR M4-.7 X 10
221	P0442221	PHLP HD SCR M4-.7 X 10
222	P0442222	HANDLE
223	P0442223	HANDLE COVER, BLACK
224	P0442224	HANDLE COVER, RED
227	P0442227	FILTER BRUSH
228	P0442228	SET SCREW M5-.8 X 10
229	P0442229	FILTER BRUSH SHAFT 16 X 16 X 1005MM
230	P0442230	CANISTER FILTER CAGE BASE
231	P0442231	BRUSH SHAFT SUPPORT BRACKET
232	P0442232	HEX BOLT M6-1 X 25
233	P0442233	LOCK NUT M6-1
234	P0442234	HEX NUT 5/16-18
235	P0442235	WIRE ROPE 2 X 39500MM
236	P0442236	FLAT HD SCR 1/4-20 X 3/4
238	P0442238	SLIDING WHEEL COVER GASKET

G0442/G0601 Labels & Cosmetics



REF	PART #	DESCRIPTION
92	P0442092	MOTOR SPEC LABEL
93	P0442093	MOTOR WARNING LABEL
94V2	P0601094V2	GLASSES/RESPIRATOR LABEL 2W X 3.3H
95	P0442095	READ MANUAL 2W X 3.3H
96	P0442096	HANDS/INLET LABEL
97	P0442097	RETURN RED HANDLE LABEL
98	P0442098	ELECTRICITY 1.4W X 1.2H
99V2	P0442099V2	MACHINE ID LABEL CSA V2.01.12 (G0442)
99V2	P0601099V2	MACHINE ID LABEL CSA V2.01.12 (G0601)

REF	PART #	DESCRIPTION
101	P0442101	MODEL NUMBER LABEL (G0442)
101	P0601101	MODEL NUMBER LABEL (G0601)
143	P0442143	NOTICE CIRCUIT OVERLOAD
144	P0442144	NOTICE COLLECTION DRUM
145	P0442145	HEARING PROTECTION
146	P0442146	GRIZZLY.COM LABEL
153	P0442153	TOUCH-UP PAINT, GRIZZLY PUTTY
154	P0442154	TOUCH-UP PAINT, GRIZZLY GREEN

⚠WARNING

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

WARRANTY & RETURNS

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

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

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

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

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

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

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.

WARRANTY

grizzly.com