MODEL G0562Z/G1030Z2
DUST COLLECTOR
OWNER'S MANUAL

G0562Z

G1030Z2

(FOR MODELS MANUFACTURED SINCE 3/09) #JB11692 PRINTED IN TAIWAN

⚠ WARNING!

This manual provides critical safety instructions on the proper setup, operation, maintenance and service of this machine/equipment.

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

The owner of this machine/equipment 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, blade/cutter integrity, and the usage of personal protective equipment.

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

⚠ WARNING!

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

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

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

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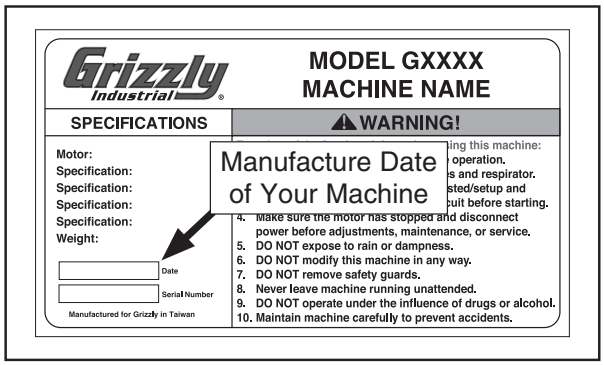
INTRODUCTION

Manual Accuracy

We are proud to offer this manual with your new machine! We've made every effort to be exact with the instructions, specifications, drawings, and photographs of the machine we used when writing this manual. However, sometimes errors do happen and we apologize for them.

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

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



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

Contact Info

We stand behind our machines. If you have any service questions, parts requests or general questions about the machine, please call or write us at the location listed below.

Grizzly Industrial, Inc.
1203 Lycoming Mall Circle
Muncy, PA 17756
Phone: (570) 546-9663
Fax: (800) 438-5901
E-Mail: techsupport@grizzly.com

If you have any comments regarding this manual, please write to us at the address below:

Grizzly Industrial, Inc.
C/O Technical Documentation Manager
P.O. Box 2069
Bellingham, WA 98227-2069
Email: manuals@grizzly.com

Machine Description

This machine is designed to capture dust and wood chips from multiple woodworking machines at the same time.

A wide variety of accessories for setting up a stationary or mobile dust collection system are available through Grizzly.

G1030Z2 Identification

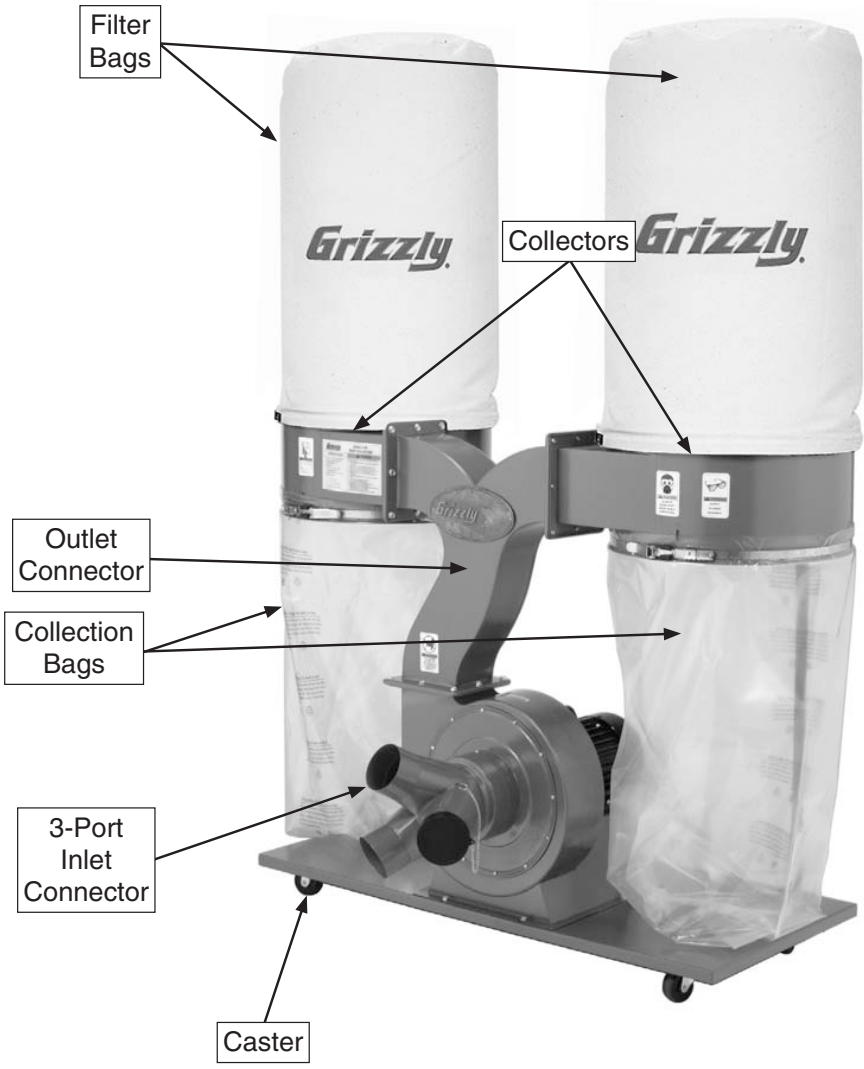


Figure 1. Model G1030Z2 identification.

G0562Z Identification

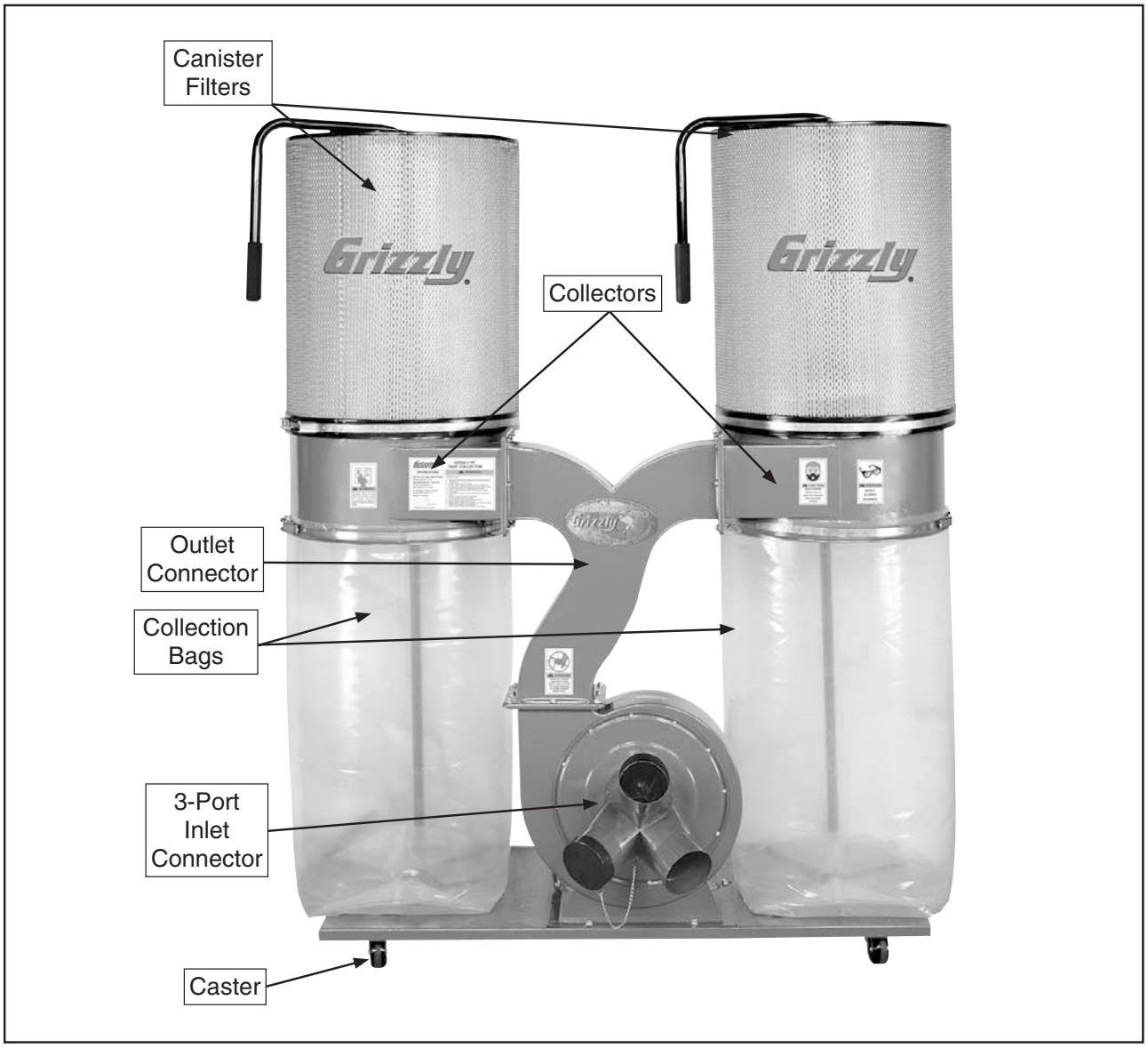


Figure 2. Model G0562Z identification.

MACHINE DATA SHEET

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

MODEL G0562Z 3HP DOUBLE CANISTER DUST COLLECTOR

Product Dimensions:

Weight..... 187 lbs.
Length/Width/Height..... 57-7/8 x 32 x 71 in.
Foot Print (Length/Width)..... 49-1/2 x 21-1/2 in.

Shipping Dimensions:

Carton #1

Type..... Cardboard
Content..... Machine
Weight..... 165 lbs.
Length/Width/Height..... 52 x 23 x 24 in.

Carton #2

Type..... Cardboard
Content..... Canister #1
Weight..... 29 lbs.
Length/Width/Height..... 22 x 22 x 28 in.

Carton #3

Type..... Cardboard
Content..... Canister #2
Weight..... 29 lbs.
Length/Width/Height..... 22 x 22 x 28 in.

Electrical:

Switch..... On/Off Push Button
Switch Voltage..... 220V
Cord Length..... 7 ft.
Cord Gauge..... 12 gauge
Minimum Circuit Size..... 30 amp
Plug Included..... No
Recommended Plug/Outlet Type..... L6-30

Motors:

Main

Type..... TEFC Capacitor Start Induction
Horsepower..... 3 HP
Voltage..... 220V
Prewired..... 220V
Phase..... Single
Amps..... 18A
Speed..... 3450 RPM
Cycle..... 60 Hz
Number Of Speeds..... 1
Power Transfer ..... Direct Drive
Bearings..... Sealed and Permanently Lubricated

Main Specifications:

Operation

Air Suction Cap	2320 CFM
Maximum Static Pressure	16.9 in.
Main Inlet Size	7 in.
Manifold Included	Yes
Manifold Inlets	3
Manifold Inlet Size	4 in.
Maximum Material Collection Cap	4.5 cu. ft.
Canister Filtration	1 micron

Bag Information

No Of Lower Bags	2
Lower Bag Cap	5.7 cu. ft.
Lower Bags Total Area	11.4 cu. ft.
Lower Bag Diameter	19-1/2 in.
Lower Bag Length	33 in.

Canister Information

No Of Canister Filters	2
Canister Filter Diameter	19-5/8 in.
Canister Filter Length	23-5/8 in.

Impeller Information

Impeller Type	Radial Fin
Impeller Size	12-3/4 in.
Impeller Blade Thickness	1/8 in.

Construction

Lower Bag Material	Clear Plastic
Canister Material	Spun Bond Polyester
Base Construction	Fabricated Sheet Metal with Casters
Frame Construction	Fabricated Sheet Metal
Caster Construction	High Density Plastic
Impeller Construction	Steel, Riveted Fins
Paint	Powder Coated

Other

Height With Bags Inflated	71 in.

Other Specifications:

ISO Factory	ISO 9001
Country Of Origin	Taiwan
Warranty	1 Year
Serial Number Location	On Machine Label
Assembly Time	1 Hour
Sound Rating	87 dB

Features:

Simply Turn the Handle on the Top a Half Turn in Either Direction for Cleaning the Canister
Handle Controls Three Cleaning Flappers Inside and Shakes the Dust from the Filter
Fine Dust from Filter Falls Directly into the Collection Bag
Clear Plastic Collection Bag with Quick Clamp
Extra Bottom Bags Included
Heavy Duty Steel Intake Improves Rigidity
Canister Filters Have 6 Times the Filtering Area of Regular Bags
Includes Steel Base with Casters

MACHINE DATA SHEET

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

MODEL G1030Z2 3 HP DUST COLLECTOR WITH NEW IMPELLER

Product Dimensions:

Weight..... 156 lbs.
Length/Width/Height..... 49-1/2 x 21-1/2 x 78 in.
Foot Print (Length/Width)..... 49-1/2 x 21-1/2 in.

Shipping Dimensions:

Type..... Cardboard
Content..... Machine
Weight..... 170 lbs.
Length/Width/Height..... 51 x 22 x 23 in.

Electrical:

Switch..... On/Off Push Button
Switch Voltage..... 220V
Cord Length..... 6 ft.
Cord Gauge..... 14 gauge
Minimum Circuit Size..... 30 amp
Plug Included..... No

Motors:

Main

Type..... TEFC Capacitor Start Induction
Horsepower..... 3
Voltage..... 220V
Prewired..... 220V
Phase..... Single
Amps..... 18
Speed..... 3450
Cycle..... 60 Hz
Number Of Speeds..... 1
Power Transfer ..... Direct Drive
Bearings..... Sealed and Lubricated for Life

Main Specifications:

Operation

Air Suction Cap..... 2300 CFM
Maximum Static Pressure..... 16.7 in.
Main Inlet Size..... 7 in.
Manifold Included..... Yes
Manifold Inlets..... 3
Manifold Inlet Size..... 4 in.
Machine Collection Cap..... 3
Maximum Material Collection Cap..... 11.4 cu. ft.
Upper Bag Filtration..... 2.5 micron

Bag Information

No Of Upper Bags	2
Upper Bag Cap	5.7 cu. ft.
Lower Bag Cap	5.7 cu. ft.
No Of Lower Bags	2
Upper Bags Total Area	11.4 cu. ft.
Lower Bags Total Area	11.4 cu. ft.
Upper Bag Diameter	19-1/2 in.
Upper Bag Length	33 in.
Lower Bag Diameter	19-1/2 in.
Lower Bag Length	33 in.

Impeller Information

Impeller Type	Radial Fin
Impeller Size	12-3/4 in.
Impeller Blade Thickness	1/8 in.

Construction

Upper Bag Material	Fabric
Lower Bag Material	Plastic
Base Construction	Fabricated Sheet Metal with Casters
Frame Construction	Formed Steel
Caster Construction	High Density Plastic
Impeller Construction	Balanced Steel, Riveted Fins
Paint	Powder Coated

Other

Height With Bags Inflated	78 in.

Other Specifications:

ISO Factory	ISO 9001
Country Of Origin	Taiwan
Warranty	1 Year
Serial Number Location	Machine Label Above Magnetic On/OFF Switch
Awards	Wood Magazine Top Value 1997
Assembly Time	1 Hour

Features:

Fully Mobile
Powder Coated Paint
Includes Steel Base with Casters

SECTION 1: SAFETY

⚠WARNING

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

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

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

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

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

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

⚠WARNING

Safety Instructions for Machinery

1. **READ ENTIRE MANUAL BEFORE STARTING.** Operating machine before reading the manual greatly increases the risk of injury.
2. **ALWAYS USE ANSI APPROVED SAFETY GLASSES WHEN OPERATING MACHINERY.** Everyday eyeglasses only have impact resistant lenses—they are NOT safety glasses.
3. **ALWAYS WEAR A NIOSH APPROVED RESPIRATOR WHEN OPERATING MACHINERY THAT PRODUCES DUST.** Most types of dust (wood, metal, etc.) can cause severe respiratory illnesses.
4. **ALWAYS USE HEARING PROTECTION WHEN OPERATING MACHINERY.** Machinery noise can cause permanent hearing loss.
5. **WEAR PROPER APPAREL.** DO NOT wear loose clothing, gloves, neckties, rings, or jewelry that can catch in moving parts. Wear protective hair covering to contain long hair and wear non-slip footwear.
6. **NEVER OPERATE MACHINERY WHEN TIRED OR UNDER THE INFLUENCE OF DRUGS OR ALCOHOL.** Be mentally alert at all times when running machinery.

⚠WARNING
Safety Instructions for Machinery

7. **ONLY ALLOW TRAINED AND PROPERLY SUPERVISED PERSONNEL TO OPERATE MACHINERY.** Make sure operation instructions are safe and clearly understood.

8. **KEEP CHILDREN/VISITORS AWAY.** Keep all children and visitors away from machinery. When machine is not in use, disconnect it from power, lock it out, or disable the switch to make it difficult for unauthorized people to start the machine.

9. **UNATTENDED OPERATION.** Leaving machine unattended while its running greatly increases the risk of an accident or property damage. Turn machine ***OFF*** and allow all moving parts to come to a complete stop before walking away.

10. **DO NOT USE IN DANGEROUS ENVIRONMENTS.** DO NOT use machinery in damp, wet locations, or where any flammable or noxious fumes may exist.

11. **KEEP WORK AREA CLEAN AND WELL LIGHTED.** Clutter and dark shadows may cause accidents.

12. **USE A GROUNDED POWER SUPPLY RATED FOR THE MACHINE AMPERAGE.** Grounded cords minimize shock hazards. Operating machine on an incorrect size of circuit increases risk of fire.

13. **ALWAYS DISCONNECT FROM POWER SOURCE BEFORE SERVICING MACHINERY**. Make sure switch is in OFF position before reconnecting.

14. **MAINTAIN MACHINERY WITH CARE.** Keep blades sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.

15. **MAKE SURE GUARDS ARE IN PLACE AND WORK CORRECTLY BEFORE USING MACHINERY.**

16. **REMOVE CHUCK KEYS OR ADJUSTING TOOLS.** Make a habit of never leaving chuck keys or other adjustment tools in/on the machine—especially near spindles!

17. **DAMAGED MACHINERY.** Check for binding or misaligned parts, broken parts, loose bolts, other conditions that may impair machine operation. Always repair or replace damaged parts before operation.

18. **DO NOT FORCE MACHINERY.** Work at the speed for which the machine or accessory was designed.

19. **SECURE WORKPIECE.** Use clamps or a vise to hold the workpiece when practical. A secured workpiece protects your hands and frees both hands to operate the machine.

20. **DO NOT OVERREACH.** Maintain stability and balance at all times when operating machine.

21. **MANY MACHINES CAN EJECT WORKPIECES TOWARD OPERATOR.** Know and avoid conditions that cause the workpiece to "kickback."

22. **STABLE MACHINE.** Machines that move during operations greatly increase the risk of injury and loss of control. Verify machines are stable/secure and mobile bases (if used) are locked before starting.

23. **CERTAIN DUST MAY BE HAZARDOUS** to the respiratory systems of people and animals, especially fine dust. Be aware of the type of dust you are exposed to and always wear a respirator designed to filter that type of dust.

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

⚠WARNING
Additional Safety for Dust Collectors

1. **MACHINE USE.** This machine only is intended to collect wood dust/chips from woodworking machines. Do not use this dust collector as a vacuum. Do not use this dust collector with machines producing dust/chips from metal, asbestos products, lead paint, silica or any products that are not natural wood or man-made wood products such as plywood or particle board.

2. **SUSPENDED DUST PARTICLES AND IGNITION SOURCES**. Do not operate the dust collector in areas where explosion risks would be high if dust were dispersed into the area. Areas of high risk include, but are not limited to, areas near pilot lights or open flames.

3. **EMPTYING DUST.** When emptying dust from the collection bags, wear a respirator and safety glasses. Empty dust into an approved container and dispose of properly.

4. **DUST HAZARD.** Be aware that certain woods may cause an allergic reaction in people and animals, especially when exposed to fine dust. Make sure you know what type of wood dust you will be exposed to in case there is a possibility of an allergic reaction.

5. **AVOIDING FIRES.** Do not allow steel to strike against the impeller—this may produce a spark. Sparks can smolder in wood dust for a long time before fire or flame is detected. If you accidentally collect metal during operation, immediately turn off the dust collector, unplug the power cord from the outlet or flip the disconnect switch and wait for all moving parts to stop. Remove collection bags and empty the dust into an approved air tight metal container. Prevent any chance of accidentally collecting metal again before resuming operations.

6. **SAFE SERVICING.** Disconnect power and allow impeller to completely stop before servicing or working on the dust collector or the ducting system, especially if clearing a clogged duct.

7. **KEEPING FINGERS SAFE.** Do not place your hands or tools near the open inlet during operation for any reason. The powerful suction could cause accidental contact with the impeller which will cause serious personal injury or damage to the machine.

8. **WEAR RESPIRATOR.** This machine may blow fine dust particles into the air during operation. Always wear an approved respirator during and for a short time after machine operation!

⚠WARNING

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

⚠CAUTION

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

SECTION 2: CIRCUIT REQUIREMENTS

220V Single-Phase Operation

⚠WARNING

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

⚠WARNING

Electrocution or fire could result if machine is not grounded and installed in compliance with electrical codes. Compliance MUST be verified by a qualified electrician!

Full Load Amperage Draw

This machine draws the following amps under maximum load:

Amp Draw..... 18 Amps

Power Supply Circuit Requirements

The power supply circuit for your machine MUST be grounded and rated for the amperage given below. Never replace a circuit breaker on an existing circuit with one of higher amperage without consulting a qualified electrician to ensure compliance with wiring codes. **If you are unsure about the wiring codes in your area or you plan to connect your machine to a shared circuit, consult a qualified electrician.**

Minimum Circuit Size.....30 Amps

Power Connection Device

The type of plug required to connect your machine to power depends on the type of service you currently have or plan to install. We recommend using the plug shown in **Figure 3**.

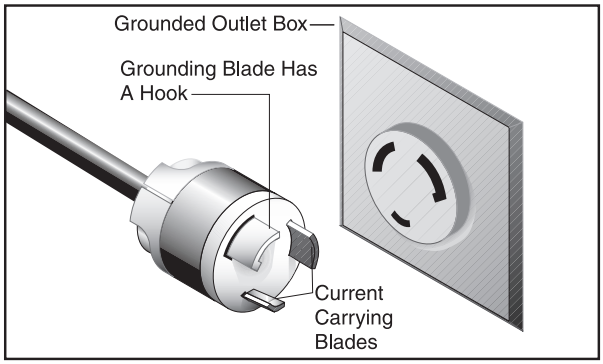


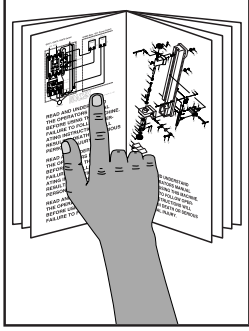
Figure 3. L6-30 plug and receptacle.

Extension Cords

Using extension cords may reduce the life of the motor. Instead, place the machine near a power source. If you must use an extension cord:

- Use at least a 12 gauge cord that does not exceed 50 feet in length!
- The extension cord must also have a ground wire and plug pin.
- A qualified electrician MUST size cords over 50 feet long to prevent motor damage.

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

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

Needed for Setup

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

Description	Qty
• Safety Glasses (for each person)	1
• Open End Wrench 12mm	1
• Phillips Head Screwdriver	1

Unpacking

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

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

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

G0562Z Inventory

After all the parts have been removed from the three boxes, you should have the following items:

A. Canister Filter 2
B. Foam Adhesive Bag 2
— Wide Foam Strip 5 x 42mm 2
— Narrow Foam Strip 4 x 20mm 2
C. Canister Filter Cleaning Handle 2
D. Metal Canister Clamp 2

Figure 4. Canister filter box components.

E. Motor and Impeller Assembly 1
F. 7" Inlet w/Three 4" Fittings 1
G. Base 1
H. Metal "Y" Outlet 1
I. Collector (Left) 1
J. Collector (Right) 1
K. Hardware Bag 1
— Casters 4
— Phillips Head Tap Screw #10 x 3/8" 1
— Flange Bolts 5/16"-18 x 1/2" 52
— Combo Wrench 10 x 12mm 1
— Special Hex Wrench 5mm 1
L. Collector Supports 2
M. Collection Hardware Bag 1
— Metal Bag Clamps 2
— Clear Collection Bags 4
N. Rubber Gaskets (not shown) 3

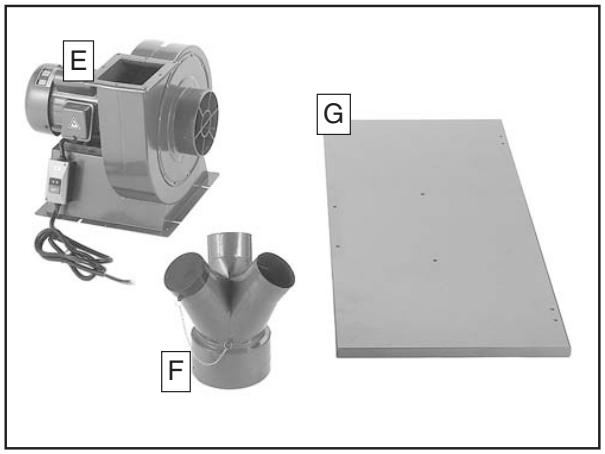


Figure 5. Main box items (1).

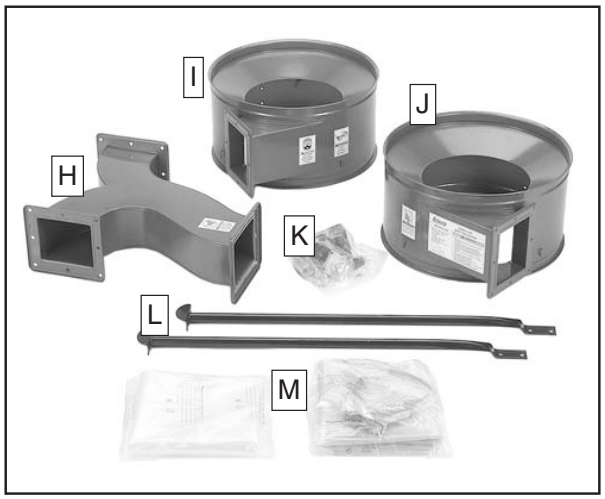


Figure 6. Main box items (2).

G1030Z2 Inventory

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

Note: *If you can't find an item on this list, check the mounting location on the machine or examine the packaging materials carefully. Occasionally we pre-install certain components for shipping purposes.*

Inventory:	**Qty**
• Motor and Impeller Assembly	1
• Base	1
• Collectors	2
• 3-Way Inlet	1
• Collection/Filter Bags	4
• Collector Support Brackets	2
• Casters	4
• Rubber Gaskets	3
• Upper Bag Support	2
• Outlet	1
• Flange Bolts 5/16"-18 x 1/2"	52
• Open End Wrench 10/12mm	1
• Hex Wrench	1
• Bag Clamps	4
• Foam Strips	4
• Phillips Head Tap Screw #10 x 3/8"	1

If any nonproprietary 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.

Site Considerations

Floor Load

Refer to the **Machine Data Sheet** for the weight and footprint specifications of your machine. Some residential floors may require additional reinforcement to support both the machine and operator.

Placement Location

Consider existing and anticipated needs, size of material to be processed through each machine, and space for auxiliary stands, work tables or other machinery when establishing a location for your new machine. See **Figure 7** for the minimum working clearances.

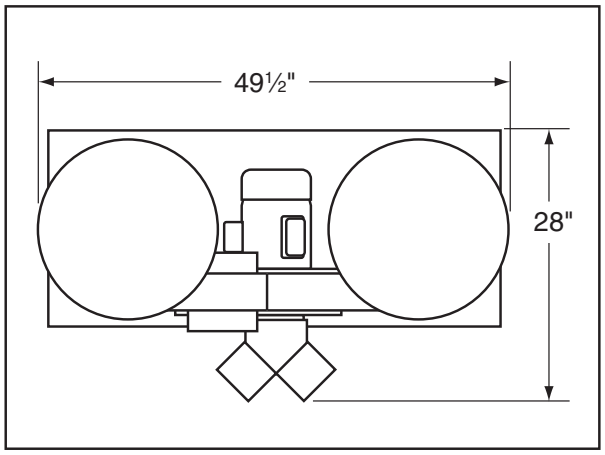
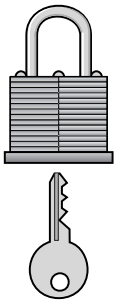


Figure 7. Minimum working clearances.



⚠CAUTION

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

Assembly

To assemble your dust collector:

1. Place the base upside down on a flat, protected surface.

2. Install the casters onto to the base with (16) 5/16"-18 x 1/2" flange bolts, as shown in **Figure 8**.

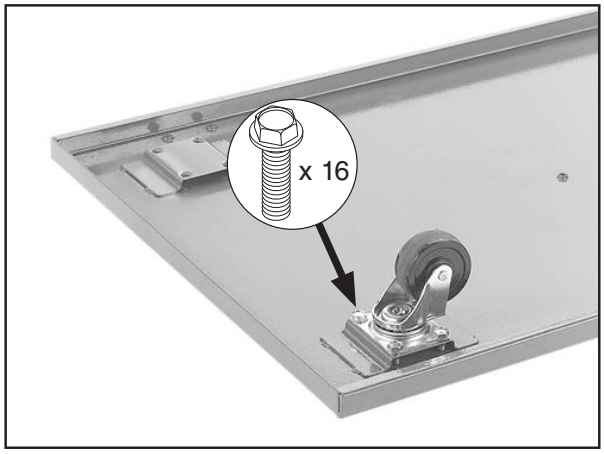


Figure 8. Caster installed onto the base.

3. Turn the base over, align the motor and impeller assembly with the mounting holes, then secure the assembly with (4) 5/16"-18 x 1/2" flange bolts, as shown in **Figure 9**.

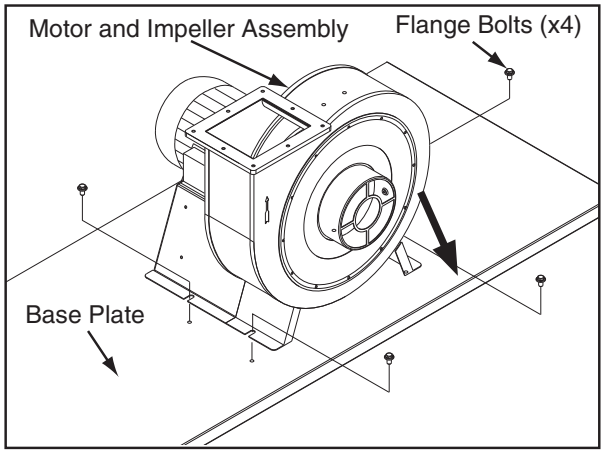


Figure 9. Motor and impeller assembly installed onto the base.

4. Place a rubber gasket around the impeller outlet rim, as shown in **Figure 10**.

Figure 10. Positioning impeller outlet gasket.

5. Secure the metal "Y" outlet to the impeller outlet with (8) 5/16"-18 x 1/2" flange bolts, as shown in **Figure 11**.

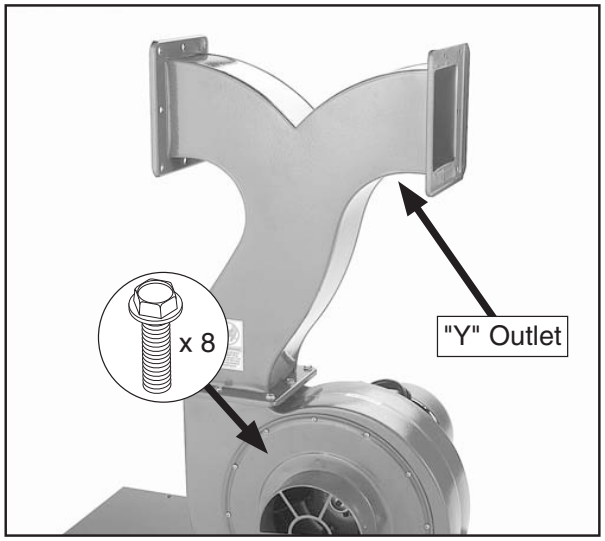


Figure 11. Outlet connector installed.

6. Align each of the collector supports with the mounting holes on the base, as shown in **Figure 12**, then secure them in place with (4) 5/16"-18 x 1/2" flange bolts.

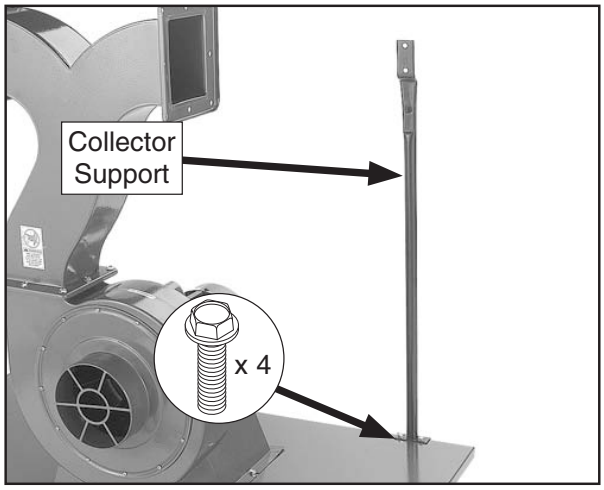


Figure 12. Canister support installed.

7. With assistance, place one of the rubber gaskets around the rim of the intake on one of the collector rings, then secure the collector ring to the metal "Y" outlet with (8) 5/16"-18 x 1/2" flange bolts (**Figure 13**).

Note: *The collector attaches to each support bracket. The inside of the collector is funnel shaped and directs the air around in a cyclone motion. Make sure that the inside taper (funnel) is faced downward and the collector inlet faces toward the collector body.*

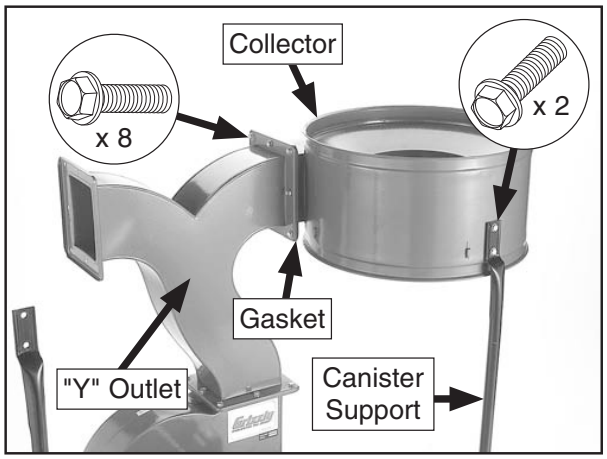


Figure 13. Collector installed.

8. Attach the top of the canister support to the collector with (2) 5/16"-18 x 1/2" flange screws, as shown in **Figure 13**.

G0562Z only: Place the upper bag support over the canister support and secure it with (2) 5/16"-18 x 1/2" flange bolts, as shown in **Figure 14**.

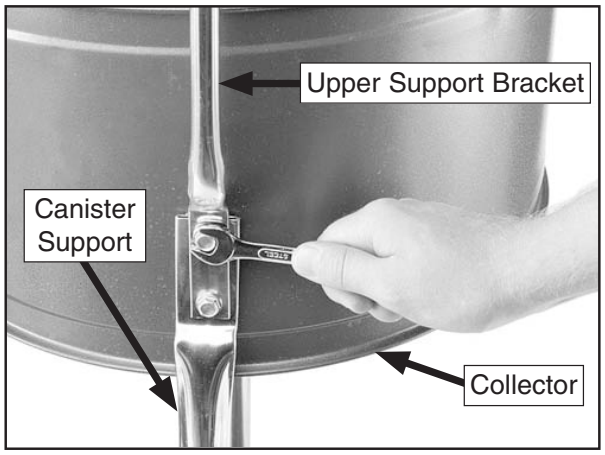


Figure 14. Mounting collector to brackets.

9. Repeat **steps 7 & 8** for the other collector ring (**Figure 15**).

Figure 15. Collector rings installed G0562Z shown.

10. Affix the wide foam strip around the outside top rim of the collector ring as shown in **Figure 16**.

Figure 16. Installing wide foam strip.

11. Trim the excess foam strip so the ends come together evenly, as shown in **Figure 17**.

Figure 17. Trimmed foam strip.

12. G0562Z only:

a. Install the canister handle onto the top of the canister filter by tightening the bolt against the flat of the shaft (**Figure 18**).

Figure 18. Installing canister handle.

b. Place the canister filter on top of the collector ring.

c. Position the metal belt clamp around the bottom of the canister so it evenly compresses against the foam strip (**Figure 17**).

Figure 19. Installed canister.

d. Repeat A–C for the other canister.

G1030Z2 only:

a. Hook the top loop of the upper filter bags (fabric) over the upper bag supports, as shown in Figure 20.

Figure 20. Attaching upper filter bag.

b. Tighten the upper bags to the collector using the strap and clamp kits shown in **Figure 21**.

Note: DO NOT force the clamp. If it will not close, choose the next notch over, then clamp in place.

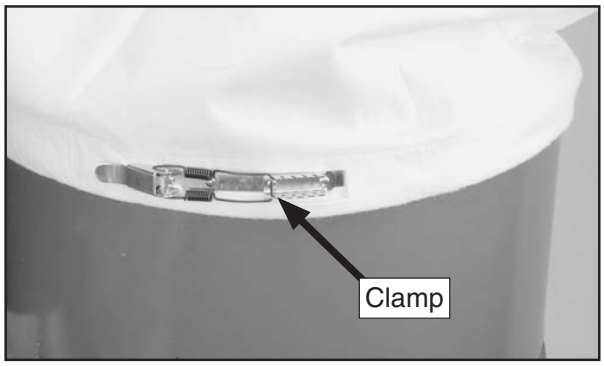


Figure 21. Upper collection bag secured.

13. Secure the narrow foam strip around the outside bottom rim of the collector ring and trim the excess.

14. Hook the clear collection bag on the hooks around the bottom of the collector to hold the bag in place for the next step (**Figure 22**).

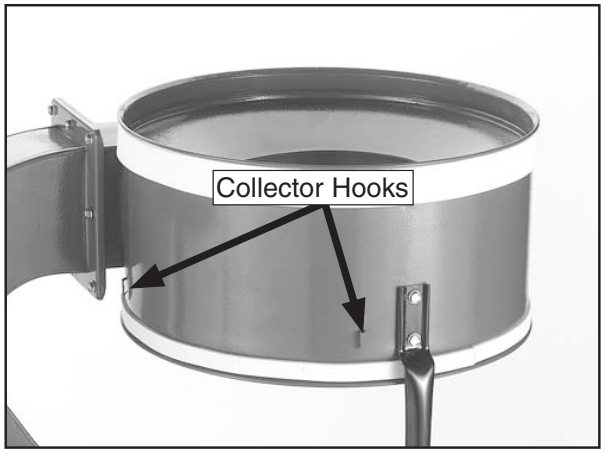


Figure 22. Trimmed foam strip and collector hook locations.

15. Tighten the belt clamp around the narrow foam strip to seal and secure the lower collection bag (**Figure 23**).

Note: *DO NOT force the clamp. If it will not close, choose the next notch over, then clamp in place.*

Figure 23. Lower collection bag installed.

16. Insert the inlet over the impeller intake hole.

17. Secure the inlet in place with the Phillips head tap screw (**Figure 24**).

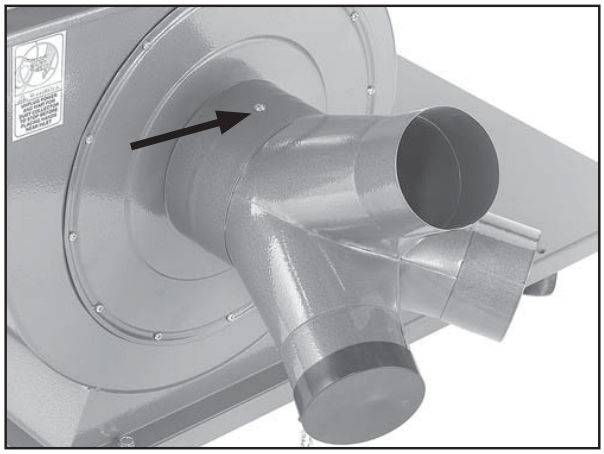
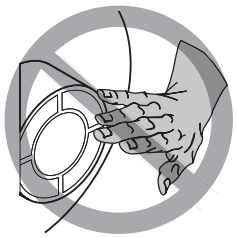


Figure 24. Installed inlet.

Test Run



⚠WARNING

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

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

If, during the test run, you cannot easily locate the source of an unusual noise or vibration, stop using the machine immediately, then review the **Troubleshooting** on **Page 35**.

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

To test run the machine:

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

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

3. Connect the machine to the power source.

4. Turn the machine ***ON***.

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

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

6. Turn the machine ***OFF***.

SECTION 4: DESIGNING THE SYSTEM

General

⚠WARNING

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

The Model G0562Z/G1030Z2 can be operated as either a stationary or a mobile unit. There are advantages and disadvantages to both set-ups. The advantage of the mobile system is eliminating the cost of many ducts and fittings. On the other hand, the stationary system is more versatile and convenient.

If using the Model G0562Z/G1030Z2 as a central dust collector system, put the dust collector in an out of the way location such as a corner or separate room. The dust collector is capable of collecting dust from up to two machines running simultaneously. Grizzly offers a complete line of dust collection accessories for setting up a stationary system. Additionally, Grizzly offers a complete guide book entitled *Dust Collection Basics.*

Whatever system you choose, always make sure there are no open flames or pilot lights in the same room as the dust collector. There is a risk of 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.

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.

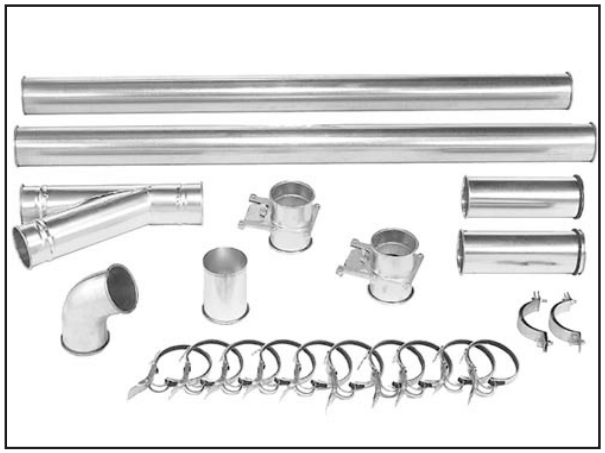


Figure 25. Examples of metal pipe and components.

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 for flexible ducting is metal flex hose that is designed to be flexible and as smooth as possible to reduce static pressure loss See **Page 30**.

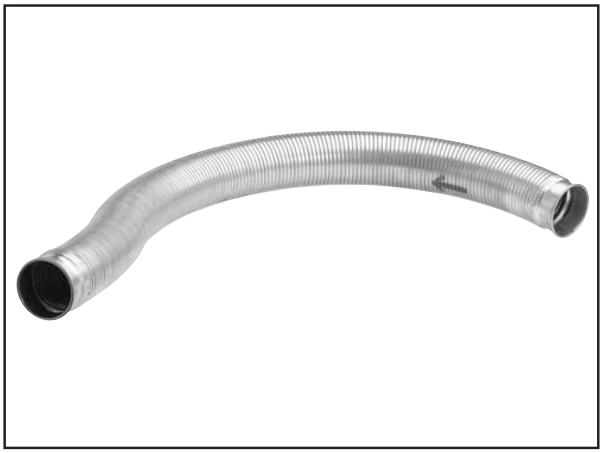


Figure 26. Example of flexible metal duct.

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 offers greater flexibility, but is non-resistant to abrasion and tends to collapse in a negative pressure system. We DO NOT recommend using dryer vent hose in your dust collection system.

If using flex-hose, choose one of the many types 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.

Plastic Duct

The popularity of plastic duct is due to the fact that it is economical and readily available. 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 build-up.

Figure 27. Example of plastic duct and components.

System Design

Step 1. 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 end up designing a complicated system, then we recommend additional research beyond this manual, or that you seek the help of an expert.

Step 2. Sketch Your Shop Layout

When designing a successful dust collection system, planning is the most important step. In this step, you must sketch a basic layout of your shop.

Before you get out your pencil and paper, we recommend you visit our FREE *Workshop Planner* available on our website at **www.grizzly.com**.

Our *Workshop Planner* will allow you to quickly and easily draw 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 **Figure 28**, including all your current/planned machines and your planned placement of the dust collector.

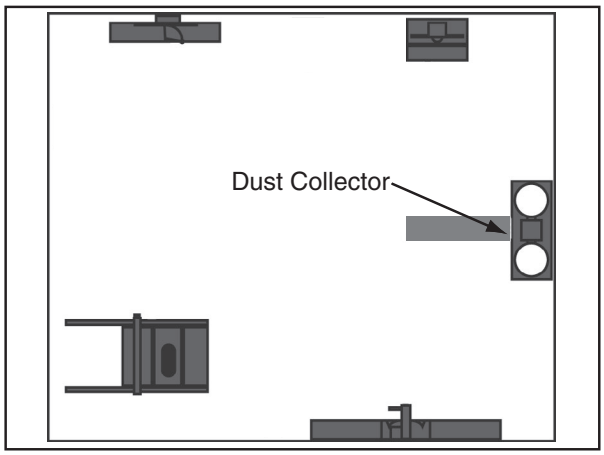


Figure 28. Basic sketch of shop layout.

Step 3. 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 **Figures 29 & 30** for ideas of good duct layouts vs bad duct layouts.

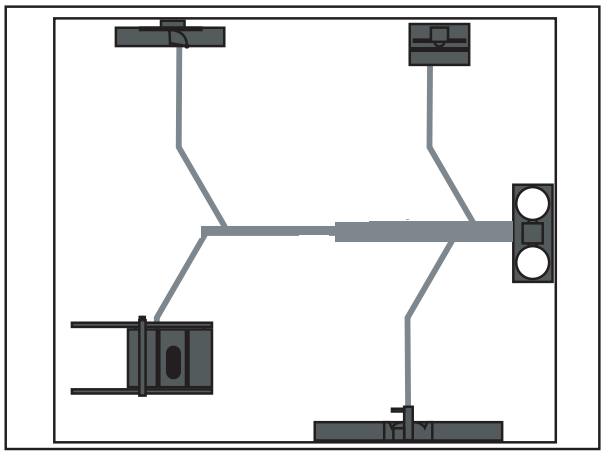


Figure 29. Good duct layout.

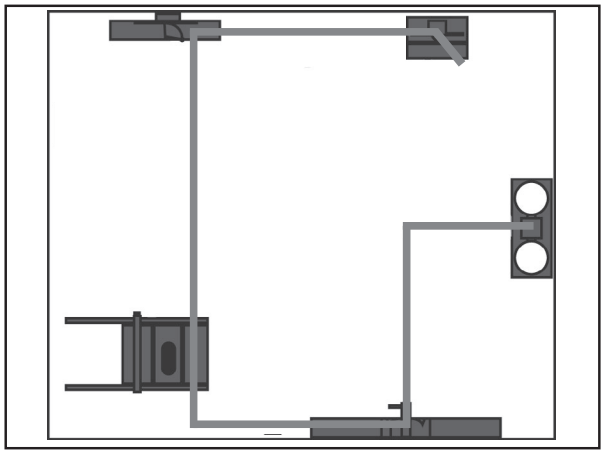


Figure 30. Bad duct layout.

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.

Step 4. Determine Required CFM of Each Machine

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.

Figure 31 gives you a close estimation of the airflow your 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"	98
2.5"	150
3"	220
4"	395
5"	614
6"	884
7"	1203
8"	1570
9"	1990
10"	2456

Figure 31. Approximate required airflow for machines, based on dust port size.

If your machine doesn't have a built in dust port, use **Figure 32** to determine which size of dust port to install on your machine.

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 32. Dust port size and quantity per average machine.

Write the required CFM for each machine on your sketch, as shown in **Figure 33**.

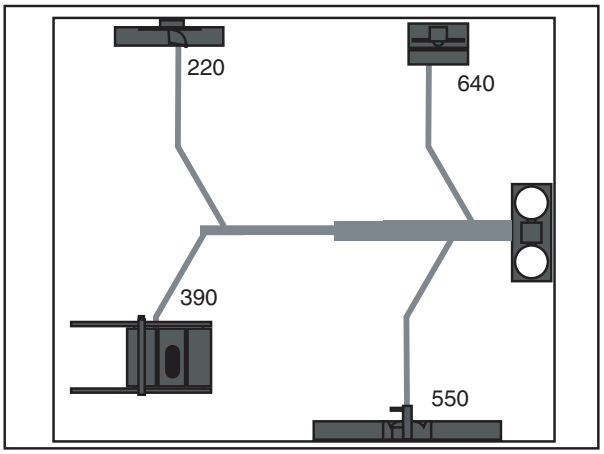


Figure 33. CFM requirements labeled for each machine.

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 in **Figure 34**, but using the inlet size for your dust collector as the main line.

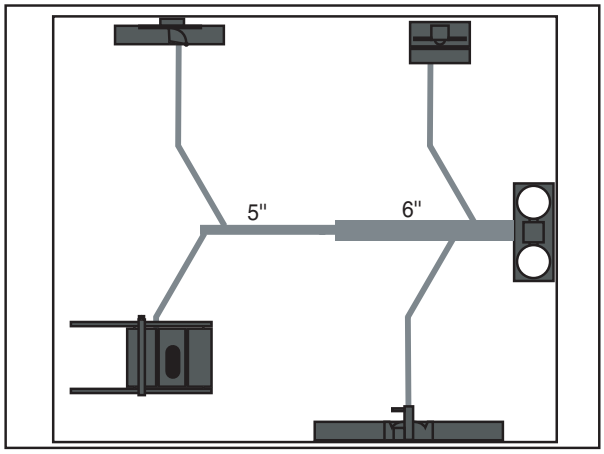


Figure 34. Main line size labeled on sketch.

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 **Figure 35**.

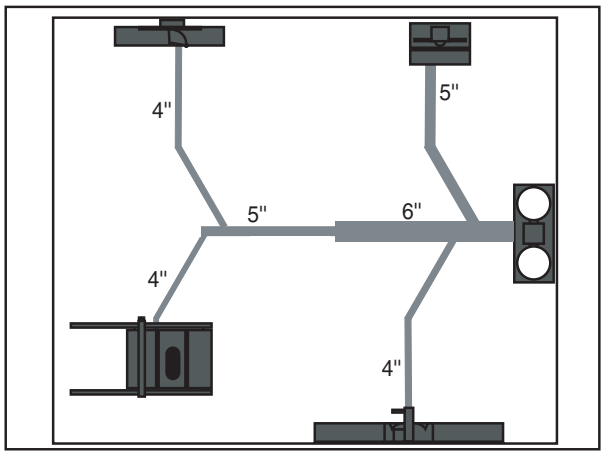


Figure 35. Branch line sizes labeled on sketch.

Here are some frequently asked questions when determining branch line sizes:

How do I figure which size of branch line to use if the machine has two dust ports?
Simply add the total CFM given for each size from **Figure 31** and refer to that CFM number to **Figure 36**. Then, split the branch line just before the dust ports with matching duct sizes.

What if two machines share the same branch line?
You have two options:

1. If both machines will be running at the same time, add the total CFM given for each size from **Figure 31** and match the branch line given in **Figure 36**.

2. If both the machines will never be run at the same time, reference the machine with biggest dust port to **Figure 36** 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 36. Branch line sizing chart by total CFM (for use when multiple machines share line).

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) pipe and gradual curves, as opposed to flexible pipe 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 pipe) 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 charts in **Figure 37** to calculate the resistance of duct work.

Duct Dia.	Approximate Static Pressure Loss Per Foot of Rigid Pipe		Approximate Static Pressure Loss Per Foot of Flex Pipe	
	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 37. 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 **Figure 37**.

2. List each type of elbow or branch and multiply the quantity (if more than one) by the static pressure loss given in **Figure 37**.

3. Add the additional factors from **Figure 38** to your list.

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

Figure 38. Additional factors affecting static pressure.

4. Total your list as shown in the example in **Figure 39** 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 Pipe (0.037) at 20' 0.740

Branch Line
4" Rigid Pipe (0.075) at 10' 0.750
4" Flex Pipe (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 39. 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 maximum static pressure loss found on the data sheet for your machine (located toward the front of this manual).

—If the CFM for your static pressure loss is above the requirement of the machine, then the line will most likely be successful. Congratulations! You've just designed your own dust system. Refer to **Page 30** 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.

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 using 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 build up. This charge will build until it discharges to a ground. If a grounding medium is not available to prevent static electrical build up, 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 build up 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 the wire to each grounded woodworking machine and dust collector.

⚠WARNING

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 (**Figure 40**) around the blast gate without interruption to the grounding system.

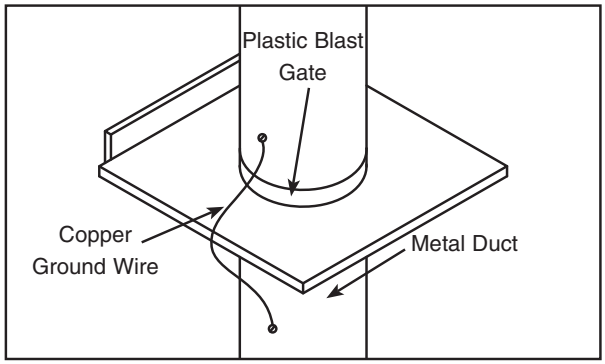


Figure 40. Ground jumper wire when using plastic blast gates and metal duct.

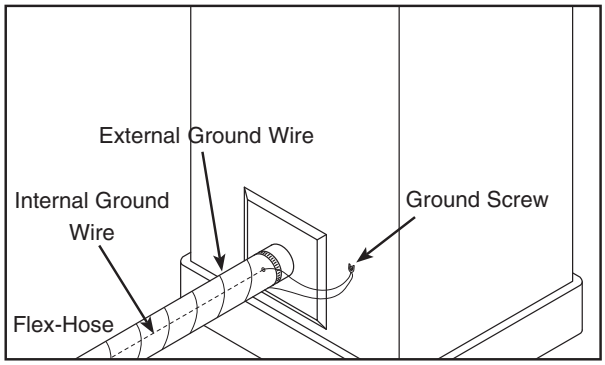
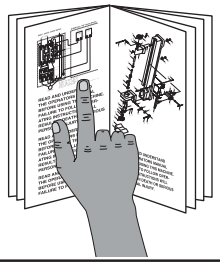


Figure 41. Flex-hose grounded to machine.

We also recommend wrapping the outside of all plastic ducts with bare copper wire to ground the outside of the system against static electrical build up. 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 **Figure 41.** Ensure that each machine is continuously grounded to the grounding terminal in your electric service panel.

SECTION 5: OPERATIONS

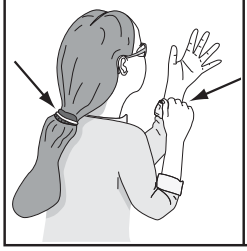


⚠WARNING

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

⚠WARNING

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

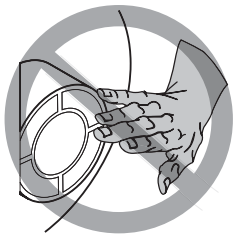


⚠WARNING

Loose hair, clothing, or jewelry could get caught in machinery and cause serious personal injury. Keep these items away from moving parts at all times to reduce this risk.

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.



⚠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.

General

Operating your Model G0562Z/G1030Z2 is simple and straightforward. Blast gates can be used at the start of each branch line to control 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.

SECTION 6: ACCESSORIES

H5293—4" Metal Duct Starter Kit
H5295—5" 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.

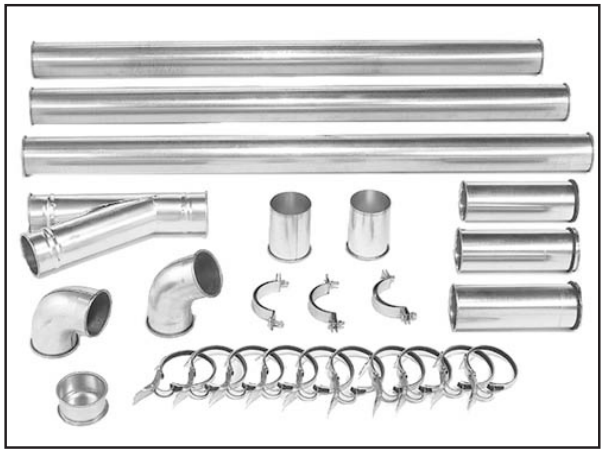


Figure 42. Metal Duct Starter Kit.

G6163—4" Clamp
G7343—5" Clamp
G7361—6" Clamp
H5228—7" Clamp
H5238—8" Clamp
H5253—9" Clamp
These clamps feature lever latches and foam seals, and secure around the rolled ends of fittings and pipe.

Figure 43. Dust collection pipe clamps.

H5294—4" Metal Duct Machine Addition Kit
H5296—5" 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.

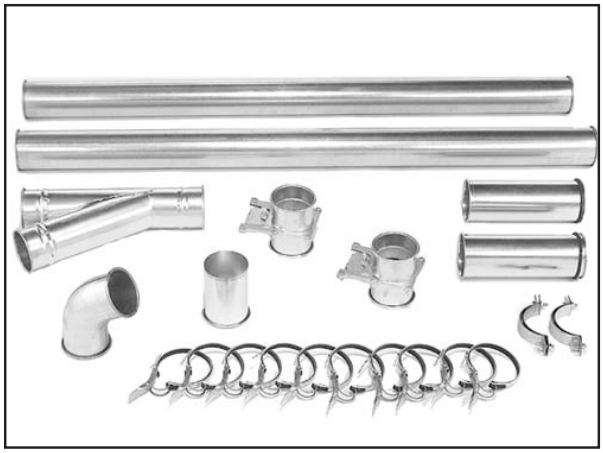


Figure 44. Metal Duct Machine Addition Kit.

Metal Elbows
These industrial metal elbows are available from 4"–8" with 90˚, 60˚, 45˚, or 30˚ curves. Call (800) 523-4777 or visit **www.grizzly.com** for more information and pricing.

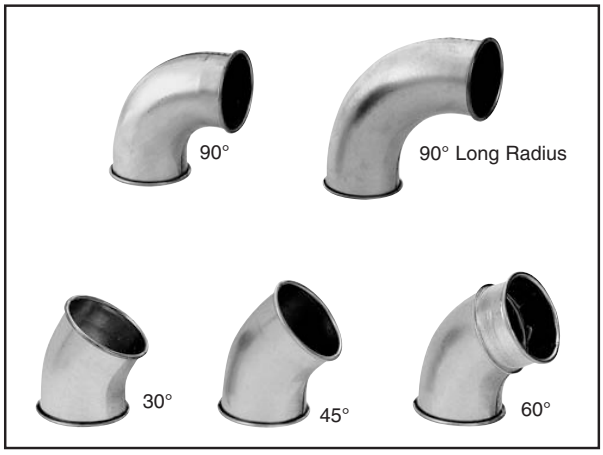


Figure 45. Metal elbow examples.

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 46. Straight Metal Pipe.

H7215—4" x 5' Rigid Metal Flex Hose
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.

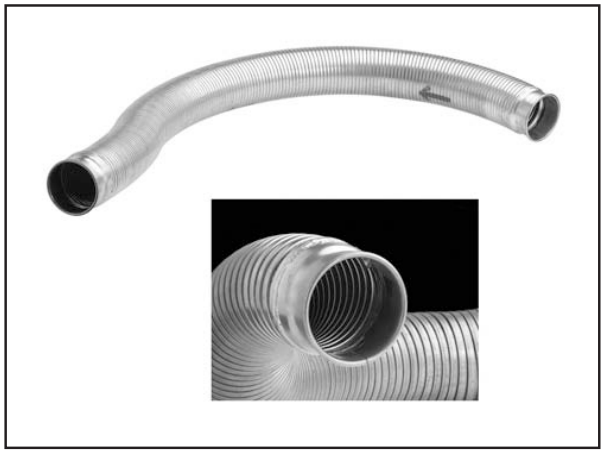


Figure 47. Rigid Metal Flex Hose.

Metal Branches
We carry many different branches, all designed to minimize airflow resistance.

Figure 48. Metal Branches.

Reducers & Adapters
We carry a multitude of reducers and elbows to cover most applications from 4" through 9".

Figure 49. Metal Reducers & Adapters.

H6899—Plastic Lower Bag
Replacement plastic lower bag for G0562Z/G1030Z2.

H1052—Clear Flexible Hose 4" x 10'
G1536—Black Flexible Hose 4" x 10'
G2974—Wire Hose Clamp 4"
G1843—Plastic Blast Gate 4"
G4679—Anti-Static Grounding Kit
We've hand picked a selection of dust collection components commonly needed to connect the Model G0661 to an existing dust collection system.

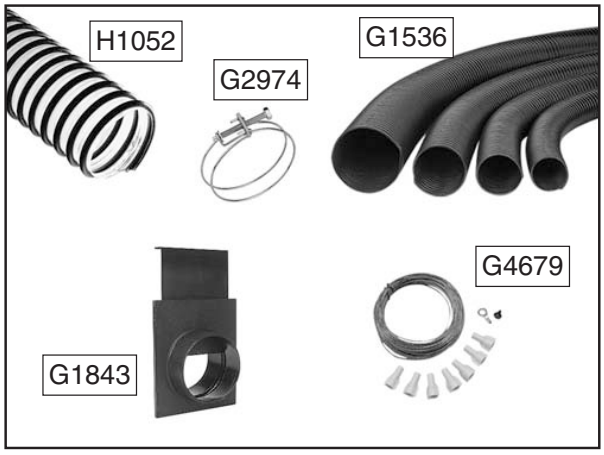


Figure 50. Dust collection accessories.

H2797—Remote Control - 110V, 1½HP
H5397—Remote Control - 220V, 3HP
This remote switch allows you to turn your dust collector on and off from anywhere in your shop up to 75 feet away, saving you trips to your dust collector whenever you operate a shop machine. Includes two controls.

Figure 51. Dust Collector Remote Controls.

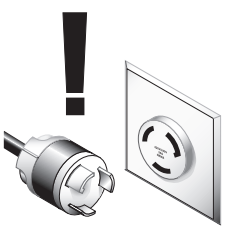
H5783—Extra 1 Micron Canister
Replacement canister for Grizzly G0548 & G0562 Dust Collectors. Also fits G1028Z2, G1029Z2, G1030Z2

Figure 52. Replacement canister.

G9956—Remote Controlled Heavy-Duty Double Air Filter
G0572—Hanging Air Filter with Remote
These Hanging Air Filters have convenient remote controls and feature a three speed motor, automatic shutoff timer and hang easily from the workshop ceiling!.

Figure 53. G0572 Dust Filter.

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, follow this maintenance schedule and refer to any specific instructions given in this section.

Daily Check:

- Loose mounting bolts.
- Worn switch.
- Worn or damaged wires.
- Almost full collection bag.
- Any other unsafe condition.

Lubrication

Since all bearings are shielded and permanently lubricated, simply leave them alone until they need to be replaced. Do not lubricate them.

CAUTION

Always wear a respirator when emptying the dust collection bags on the dust collector. Sawdust may cause allergic reactions or respiratory problems.

Bag Cleaning

Always empty the collection bags on a regular basis. Emptying the collection bags allows the machine to operate at a much higher level of efficiency.

Always wear the appropriate respirator or dust mask and safety glasses when emptying the collection bags. Small dust particles can escape the bags during emptying, causing them to become airborne and easily inhaled. This microscopic airborne dust is extremely unhealthy to breathe and can cause serious health problems.

While the Model G0562Z/G1030Z2 excels at collecting the majority of wood dust produced by your machines, it is not an air filter; therefore, **we strongly recommend** the supplemental aid of a shop air filter such as the Grizzly G0572 or G9956. Air filters are designed to collect the smaller dust particles in the air that escape from the dust collector bags.

Emptying/Replacing Bags

To clean the canister filter on the Model G0562Z Move the canister cleaning handle back-and-forth to free the trapped dust particles from the filter pleats (see **Figure 54**). The particles will fall into the collection bag.

Figure 54. Canister cleaning handle directions.

NOTICE

The use of compressed air or liquids to clean the canister filter will damage the filtration pleats of the filter. Use ONLY the cleaning handle or, if necessary, a soft brush to clean the inside of the canister filter.

The Model H6899 replacement plastic collection bag is available through Grizzly.

To replace the collection bag:

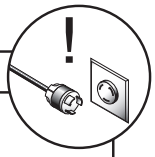
1. DISCONNECT MACHINE FROM POWER!
2. Make sure you are wearing safety glasses and a respirator.
3. Release the belt clamp securing the collection bag, then unhook the bag from the collector.
4. Securely close the top of the bag and safely dispose of it according to local and federal standards.
5. Install a new collection bag.

SECTION 8: SERVICE

Review the troubleshooting and procedures in this section to fix or adjust your 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

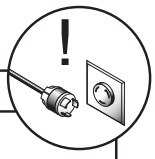
Motor & Electrical



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. Wiring is open/has high resistance.	3. Check for broken wires or disconnected/corroded connections, and repair/replace as necessary.
	4. Motor ON button or ON/OFF switch is at fault.	4. Replace faulty ON button or ON/OFF switch.
	5. Motor is at fault.	5. 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. Motor mount loose/broken.	2. Tighten/replace.
	3. Machine is incorrectly mounted or sits unevenly.	3. Tighten/replace anchor studs in floor if mounted; chock machine casters if mobile.
	4. Motor fan is rubbing on fan cover.	4. Replace dented fan cover; replace loose/damaged fan.
	5. Motor bearings are at fault.	5. Test by rotating shaft; rotational grinding/loose shaft requires bearing replacement.

Continued on next page ⟶

Dust Collector Operation



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 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. Canister is dirty (G0562Z). 3. There is a restriction in the duct line. 4. The dust collector is too far away from the point of suction, or there are too many sharp bends in the ducting. 5. The lumber is wet and dust is not flowing through the ducting smoothly. 6. There is a leak, or a series of small leaks, in the ducting, or too many open ports. 7. There are not enough open branch lines at one time, thereby causing a velocity drop in the main line. 8. The ducting and ports are incorrectly sized. 9. The machine dust collection design is inadequate. 10. The dust collector is too small for the dust collection system.	1. Empty collection bags. 2. Clean filter (G0562Z). 3. Remove dust line from dust collector inlet and unblock the restriction in the duct line. A plumbing snake may be necessary. 4. Relocate the dust collector closer to the point of suction, and rework ducting without sharp bends. Refer to System Design, beginning on Page 23. 5. Process lumber with less than 20% moisture content. 6. Rework the ducting to eliminate all leaks. Close dust ports for lines not being used. 7. Open 1 or 2 more blast gates to different branch lines to allow the velocity in the main line to increase. 8. Reinstall correctly sized ducts and fittings. Refer to System Design beginning on Page 23 for more solutions. 9. Use a dust collection nozzle on a stand. 10. 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. Bag clamps 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 bag clamps.

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

1. **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!

2. **QUALIFIED ELECTRICIAN.** Due to the inherent hazards of electricity, only a qualified electrician should perform wiring tasks on this machine. If you are not a qualified electrician, get help from one before attempting any kind of wiring job.

3. **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.

4. **MODIFICATIONS.** Using aftermarket parts or modifying the wiring beyond what is shown in the diagram may lead to unpredictable results, including serious injury or fire.

5. **MOTOR WIRING.** The motor wiring shown in these diagrams is current at the time of printing, but it may not match your machine. Always use the wiring diagram inside the motor junction box.

6. **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 before completing the task.

7. **CAPACITORS.** Some capacitors store an electrical charge for up to five minutes after being disconnected from the power source. To avoid being shocked, wait at least this long before working on capacitors.

8. **CIRCUIT REQUIREMENTS.** You MUST follow the requirements on **Page 125** when connecting your machine to a power source.

9. **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		

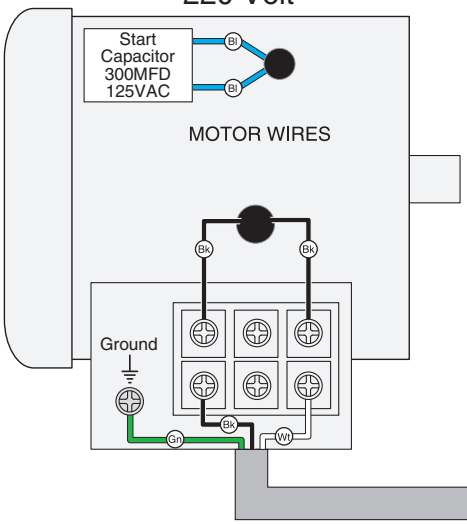
Wiring Diagram

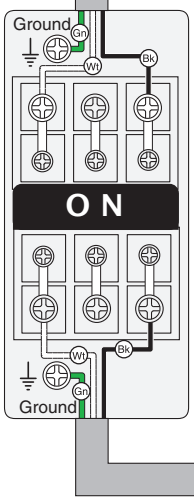
Start Capacitor.

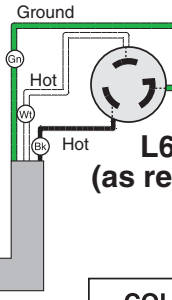
Switch.

View this page in color at *www.grizzly.com.*

220 Volt







220 VAC

L6-20 PLUG
(as recommended)

Junction Box.

NOTICE

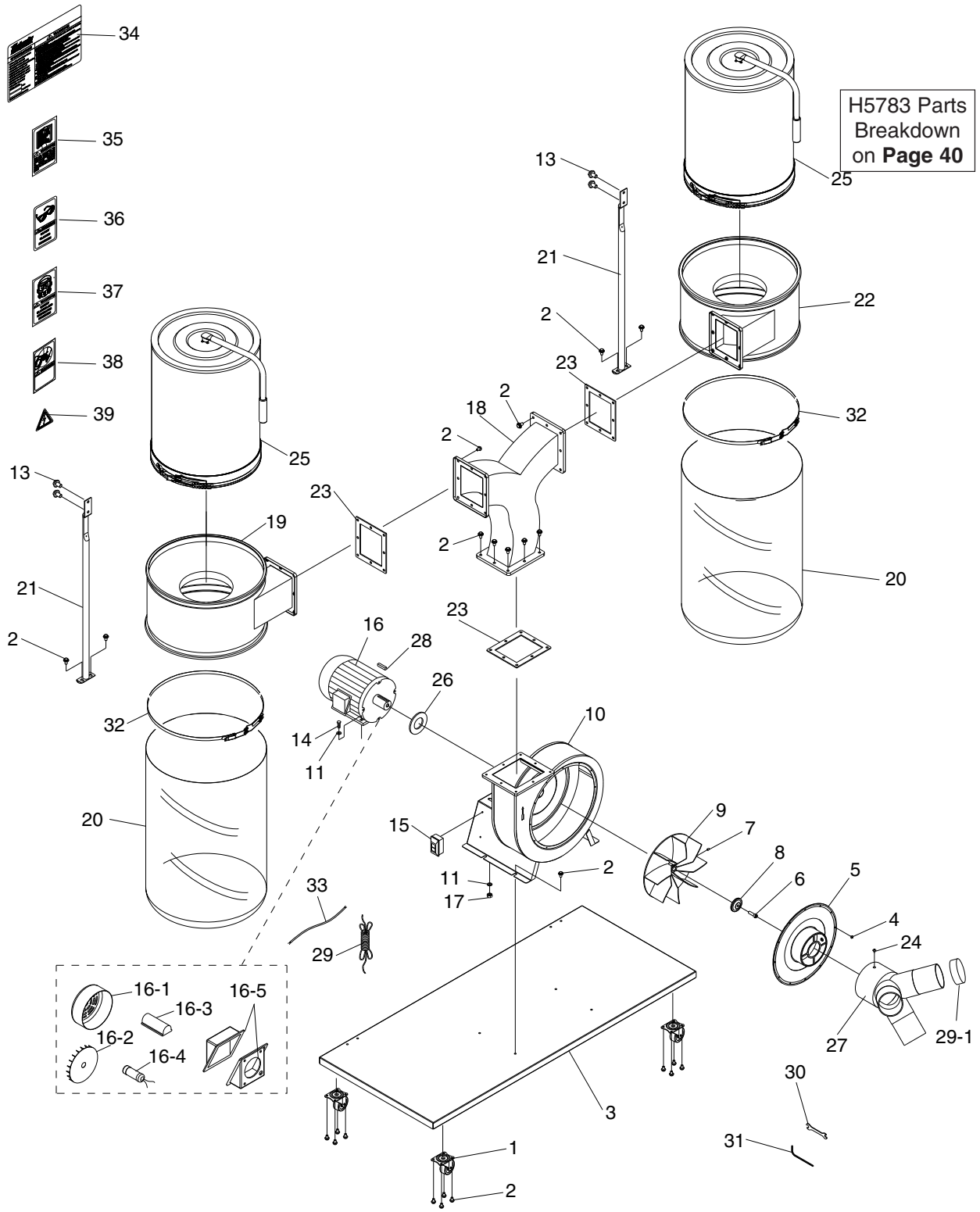
The motor wiring shown here is current at the time of printing, but it may not match your machine. Always use the wiring diagram inside the motor junction box.

COLOR KEY

BLACK	Bk
WHITE	Wt
GREEN	Gn
BLUE	Bl

SECTION 10: PARTS

G0562Z Parts Breakdown

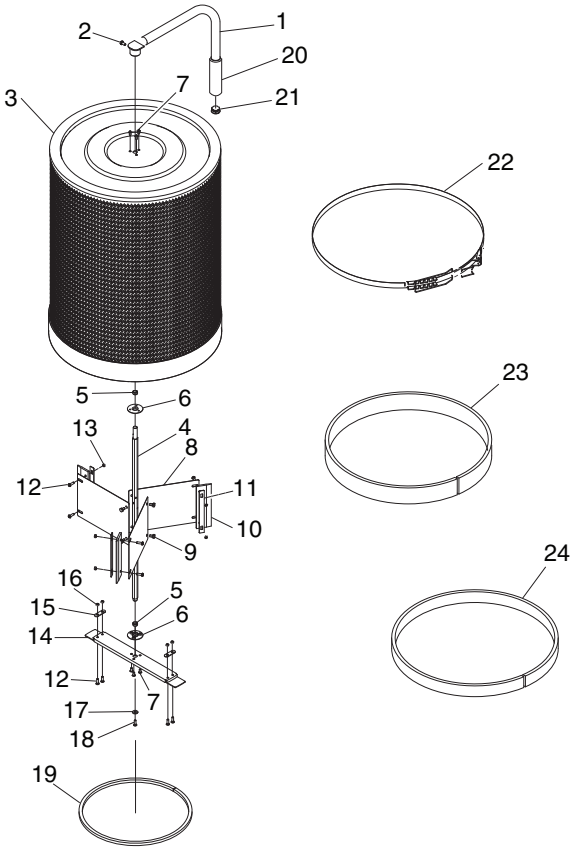


G0562Z Parts List

REF	PART #	DESCRIPTION
1	P1028Z2001	CASTER
2	PFB01	FLANGE BOLT 5/16"-18 X 1/2"
3	P1030Z2004	BASE PLATE
4	PS06	PHLP HD SCR 10-24 X 3/8
5	P1030Z2005	INLET COVER 7"
6	PSB121M	CAP SCREW M6-1 X 19 LH
7	PSS15	SET SCREW 3/8-16 X 3/8
8	P1028Z2009	SPECIAL WASHER
9	P1029Z2010	IMPELLER 12"
10	P1028Z2010	COLLECTOR BODY
11	PW07	FLAT WASHER 5/16"
13	PFB01	FLANGE BOLT 5/16"-18 X 1/2"
14	PB03	HEX BOLT 5/16"-18 X 1"
15	PSW04	ON/OFF SWITCH
16	P1030Z2016	MOTOR 3HP 220V 1PH
16-1	P1030Z2016-1	MOTOR FAN COVER
16-2	P1030Z2016-2	MOTOR FAN
16-3	P1030Z2016-3	CAPACITOR COVER
16-4	PC300B	CAPACITOR 300M 125V 1-3/4 X 3-3/8
16-5	P1030Z2016-5	JUNCTION BOX
17	PN02	HEX NUT 5/16"-18
18	P1030Z2018	METAL "Y" OUTLET

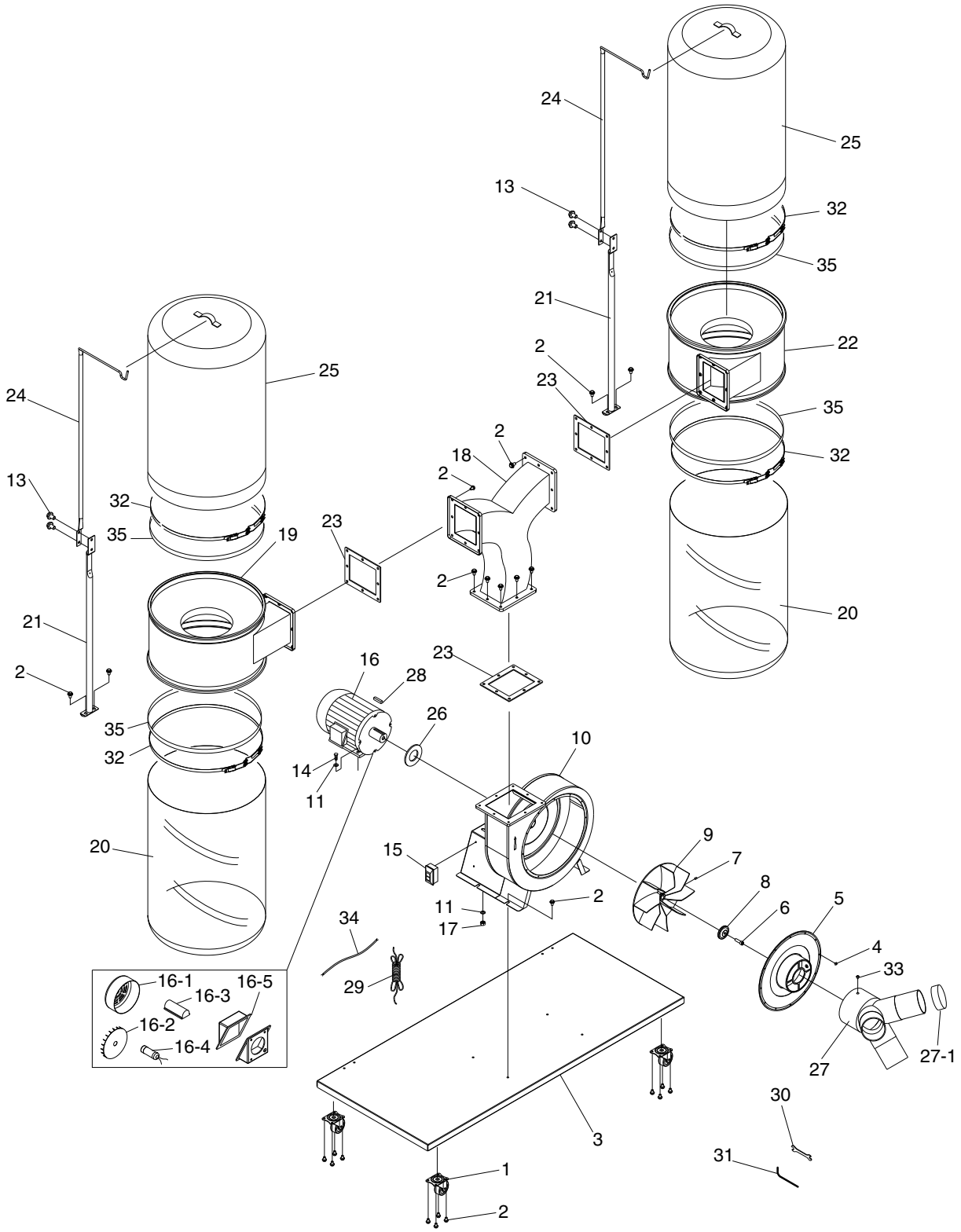
REF	PART #	DESCRIPTION
19	P1030Z2019	LEFT COLLECTOR
20	H6899	LOWER PLASTIC BAG
21	P1028Z2024	COLLECTOR SUPPORT
22	P0548Z024	RIGHT COLLECTOR
23	P1028Z2025	RUBBER GASKET
24	PS06	PHLP HD SCR 10-24 X 3/8
25	H5783	CANISTER
26	P1028Z2028	SPACER
27	P1030Z2027	INLET 7" W/THREE 4" PORTS
28	PK28M	KEY 7 X 7 X 29
29	PWRCRD220L	POWER CORD
29-1	P0562029-1	INLET CAP
30	PWR1012	WRENCH 10 X 12
31	P0562Z2031	SPECIAL HEX WRENCH 5MM
32	G3707	METAL BAG CLAMP
33	PWRCRD220S	MOTOR CORD
34	P0562034	MACHINE ID LABEL
35	PLABEL-12	READ MANUAL LABEL
36	PLABEL-11	SAFETY GLASSES LABEL
37	PLABEL-39	RESPIRATOR LABEL
38	PLABEL-59	HANDS/OUTLET LABEL
39	PLABEL-14	ELECTRICITY LABEL

H5783 Canister Filter Assembly



REF	PART #	DESCRIPTION
1	PH5783001	CLEANING HANDLE
2	PB83M	HEX BOLT M6-1 X 16
3	PH5783003	CANISTER FILTER
4	PH5783004	HEX SPINDLE
5	PH5783005	THRUST BEARING 12 X 14 X 6
6	PH5783006	BEARING PLATE
7	PS09M	PHLP HD SCR M5-.8 X 10
8	PH5783008	FLAP BOARD
9	PB04M	HEX BOLT M6-1 X 10
10	PH5783010	RUBBER FLAP
11	PH5783011	FLAP PLATE
12	PS20M	PHLP HD SCR M5-.8 X 15
13	PLN02M	LOCK NUT M5-.8
14	PH5783014	BOTTOM PLATE
15	PH5783015	SUPPORT TAB
16	PN06M	HEX NUT M5-.8
17	PW06	FLAT WASHER 1/4
18	PS68M	PHLP HD SCR M6-1 X 10
19	PH5783019	SPONGE GASKET 10 X 15MM
20	PH5783020	HANDLE SLEEVE
21	PH5783021	HANDLE CAP
22	PH5783022	QUICK RELEASE CLAMP
23	PH5783023	FOAM STRIP 4 X 20MM
24	PH5783024	FOAM STRIP 5 X 42MM

G1030Z2 Parts Breakdown

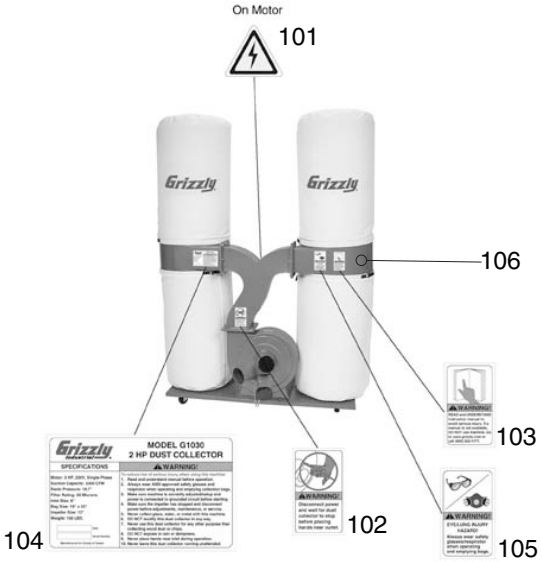


G1030Z2 Parts List

REF	PART #	DESCRIPTION
1	P1028Z2001	CASTER
2	PFB01	FLANGE BOLT 5/16-18 X 1/2
3	P1030Z2003	BASE PLATE
4	PS06	PHLP HD SCREW 10-24 X 3/8"
5	P1030Z2005	INLET COVER 7"
6	PSB121M	CAP SCREW M6-1 X 20 (LH)
7	PSS15	SET SCREW 3/8-16 X 3/8
8	P1028Z2009	SPECIAL WASHER
9	P1029Z2010	IMPELLER 12-3/4"
10	P1028Z2011	COLLECTOR BODY
11	PW07	FLAT WASHER 5/16
13	PFB01	FLANGE BOLT 5/16-18 X 1/2
14	PB03	HEX BOLT 5/16"-18 X 1"
15	PSW04	PUSH BUTTON SWITCH
16	P1030016	MOTOR 3HP 220V 1PH
16-1	P1030016-1	MOTOR FAN COVER
16-2	P1030016-2	MOTOR FAN
16-3	P1030016-3	CAPACITOR COVER
16-4	PC300G	CAPACITOR 300M 125V 1-3/4 X 3-3/8
16-5	P1030016-5	JUNCTION BOX

REF	PART #	DESCRIPTION
17	PN02	HEX NUT 5/16
18	P1030018	METAL "Y" OUTLET
19	P1030019	LEFT COLLECTOR
20	H6899	DUST COLLECTOR BAG, LOWER
21	P1028Z2023	COLLECTOR SUPPORT
22	P0548Z024	RIGHT COLLECTOR
23	P1028Z2025	GASKET
24	P1028Z2026	UPPER BAG SUPPORT
25	G5556	UPPER BAG 2.5 MICRON
26	P1028Z2028	SPACER
27	P1030Z2027	7" X 4" X 4" X 4" INLET
27-1	P1029Z2029A	INLET CAP 4"
28	PK28M	KEY 7 X 7 X 28
29	PWRCRD220L	POWER CORD, 220V, LONG
30	PWR1012	WRENCH 10 X 12
31	P1030Z2031	SPECIAL HEX WRENCH 5MM
32	G3707	BELT CLAMP
33	PS06	PHLP HD SCR 10-24 X 3/8
34	PWRCRD220S	MOTOR CORD
35	P1030Z2035	FOAM STRIP 4 X 20MM

G1030Z2 Labels Breakdown and List



REF	PART #	DESCRIPTION
101	PLABEL-14	ELECTRICITY LABEL
102	PLABEL-59	HANDS/OUTLET LABEL
103	PLABEL-12A	READ MANUAL LABEL
104	P1030Z2104	MACHINE ID LABEL
105	PLABEL-57	EYE/LUNG LABEL
106	PPAINT-1	GREEN TOUCH-UP PAINT

⚠WARNING

Safety labels warn about machine hazards and ways to prevent injury. The owner of this machine MUST maintain the original location and readability of the labels on the machine. If any label is removed or becomes unreadable, REPLACE that label before using the machine again. Contact Grizzly at (800) 523-4777 or www.grizzly.com to order new labels.

WARRANTY CARD

Name _____

Street _____

City _____ State _____ Zip _____

Phone # _____ Email _____ Invoice # _____

Model # _____ Order # _____ Serial # _____

The following information is given on a voluntary basis. It will be used for marketing purposes to help us develop better products and services. ***Of course, all information is strictly confidential.***

1. How did you learn about us?

____ Advertisement ____ Friend ____ Catalog
____ Card Deck ____ Website ____ Other:

2. Which of the following magazines do you subscribe to?

____ Cabinetmaker & FDM
____ Family Handyman
____ Hand Loader
____ Handy
____ Home Shop Machinist
____ Journal of Light Cont.
____ Live Steam
____ Model Airplane News
____ Old House Journal
____ Popular Mechanics
____ Popular Science
____ Popular Woodworking
____ Precision Shooter
____ Projects in Metal
____ RC Modeler
____ Rifle
____ Shop Notes
____ Shotgun News
____ Today's Homeowner
____ Wood
____ Wooden Boat
____ Woodshop News
____ Woodsmith
____ Woodwork
____ Woodworker West
____ Woodworker's Journal
____ Other:

3. What is your annual household income?

____ $20,000-$29,000 ____ $30,000-$39,000 ____ $40,000-$49,000
____ $50,000-$59,000 ____ $60,000-$69,000 ____ $70,000+

4. What is your age group?

____ 20-29 ____ 30-39 ____ 40-49
____ 50-59 ____ 60-69 ____ 70+

5. How long have you been a woodworker/metalworker?

____ 0-2 Years ____ 2-8 Years ____ 8-20 Years ____ 20+ Years

6. How many of your machines or tools are Grizzly?

____ 0-2 ____ 3-5 ____ 6-9 ____ 10+

7. Do you think your machine represents a good value? _____Yes _____No

8. Would you recommend Grizzly Industrial to a friend? _____Yes _____No

9. Would you allow us to use your name as a reference for Grizzly customers in your area?
Note: *We never use names more than 3 times.* _____Yes _____No

10. Comments: _____

_____

_____

_____

CUT ALONG DOTTED LINE

FOLD ALONG DOTTED LINE

Place
Stamp
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GRIZZLY INDUSTRIAL, INC.
P.O. BOX 2069
BELLINGHAM, WA 98227-2069

FOLD ALONG DOTTED LINE

Send a Grizzly Catalog to a friend:

Name_____

Street_____

City_____State_____Zip_____

TAPE ALONG EDGES--PLEASE DO NOT STAPLE

WARRANTY AND RETURNS

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

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

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

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

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

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