

MANUAL INSERT Model G1029Z 2.5 Micron 2 HP Dust Collector

INTRODUCTION

The Model G1029Z is the same dust collector as the Model G1029, but with the upgrade of the 2.5 micron top bag.

For the Model G1029Z, please follow all safety, adjustment, and operation instructions from the Model G1029 instruction manual.

INVENTORY

The Model G1029Z is shipped with the same parts shown in the Model G1029 instruction manual, except for the 2.5 micron top filter bag.

REPLACEMENT PARTS

All replacement parts for the Model G1029Z are the same as the Model G1029, except for the 2.5 micron top bag. Therefore, please refer to the included Model G1029 manual when ordering new parts, unless you need to order a replacement 2.5 micron top bag for your machine, which is listed below.

2.5 Micron Top Bag..... Part # P1029Z027

If you need additional help with this machine, call our service department at: (570) 546-9663.



Figure 1. G1029Z Dust Collector.

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DUST COLLECTOR

MODEL G1028Z/G1029 INSTRUCTION MANUAL



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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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For Your Own Safety Read Instruction Manual Before Operating This Equipment

The purpose of safety symbols is to attract your attention to possible hazardous conditions. This manual uses a series of symbols and signal words which are 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.



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

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

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

NOTICE

This symbol is used to alert the user to useful information about proper operation of the equipment.

AWARNING Safety Instructions For Power Tools

- 1. KEEP GUARDS IN PLACE and in working order.
- 2. REMOVE ADJUSTING KEYS AND WRENCHES. Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning on.
- 3. KEEP WORK AREA CLEAN. Cluttered areas and benches invite accidents.
- 4. DO NOT USE IN DANGEROUS ENVI-RONMENT. Do not use power tools in damp or wet locations, or where any flammable or noxious fumes may exist. Keep work area well lighted.

- 5. KEEP CHILDREN AND VISITORS AWAY. All children and visitors should be kept a safe distance from work area.
- 6. MAKE WORKSHOP CHILD PROOF with padlocks, master switches, or by removing starter keys.
- 7. DO NOT FORCE TOOL. It will do the job better and safer at the rate for which it was designed.
- 8. USE RIGHT TOOL. Do not force tool or attachment to do a job for which it was not designed.

Safety Instructions For Power Tools Cont.

9. USE PROPER EXTENSION CORD. Make sure your extension cord is in good condition. Conductor size should be in accordance with the chart below. The amperage rating should be listed on the motor or tool nameplate. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. Your extension cord must also contain a ground wire and plug pin. Always repair or replace extension cords if they become damaged.

Minimum Gauge for Extension Cords

	LENGTH			
AMP RATING	25ft	50ft	100ft	
0-6	18	16	16	
7-10	18	16	14	
11-12	16	16	14	
13-16	14	12	12	
17-20	12	12	10	
21-30	10	10	No	

- **10. WEAR PROPER APPAREL.** Do not wear loose clothing, gloves, neckties, rings, bracelets, or other jewelry which may get caught in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair.
- 11. ALWAYS USE SAFETY GLASSES. Also use face or dust mask if cutting operation is dusty. Everyday eyeglasses only have impact resistant lenses, they are NOT safety glasses.
- **12. SECURE WORK.** Use clamps or a vise to hold work when practical. It's safer than using your hand and frees both hands to operate tool.
- **13. MAINTAIN TOOLS WITH CARE.** Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
- **14. USE RECOMMENDED ACCESSORIES.** Consult the owner's manual for recommended accessories. The use of improper accessories may cause risk of injury.

- **15. DO NOT OVER-REACH.** Keep proper footing and balance at all times.
- 16. REDUCE THE RISK OF UNINTENTION-AL STARTING. On machines with magnetic contact starting switches there is a risk of starting if the machine is bumped or jarred. Always disconnect from power source before adjusting or servicing. Make sure switch is in OFF position before reconnecting.
- 17. MANY WOODWORKING TOOLS CAN "KICKBACK" THE WORKPIECE toward the operator if not handled properly. Know what conditions can create "kickback" and know how to avoid them. Read the manual accompanying the machine thoroughly.
- 18. CHECK DAMAGED PARTS. Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.
- **19. NEVER LEAVE TOOL RUNNING UNAT-TENDED. TURN POWER OFF.** Do not leave tool until it comes to a complete stop.
- 20. NEVER OPERATE A MACHINE WHEN TIRED, OR UNDER THE INFLUENCE OF DRUGS OR ALCOHOL. Full mental alertness is required at all times when running a machine.
- 21. NEVER ALLOW UNSUPERVISED OR UNTRAINED PERSONNEL TO OPER-ATE THE MACHINE. Make sure any instructions you give in regards to machine operation are approved, correct, safe, and clearly understood.
- 22. IF AT ANY TIME YOU ARE EXPERIENC-ING DIFFICULTIES performing the intended operation, stop using the machine! Then contact our service department or ask a qualified expert how the operation should be performed.

Additional Safety Instructions For The Dust Collector

- 1. THIS DUST COLLECTOR IS TO BE USED FOR WOOD DUST COLLECTION ONLY. Do not use this dust collector to pick up liquids and metal scrap including, but not limited to, nails and filings. Metallic debris will contact the spinning impeller and could spark. The spark could then cause a sawdust explosion and severe fire hazard. Also, do not pick up material which cannot safely pass through the impeller such as solid wood scraps.
- 2. DO NOT PLACE YOUR HANDS OR TOOLS NEAR THE OPEN INLET during operation for any reason including, but not limited to, unclogging material and testing suction. The impeller could cause serious damage to body parts if touched while spinning.
- 3. PROBLEMS CONCERNED WITH ANY MOVING PARTS or accessories must be investigated and corrected with the power disconnected and after everything has come to a complete stop.
- 4. SUSPENDED DUST PARTICLES IN CON-JUNCTION WITH AN IGNITION SOURCE, may cause an explosion. 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 and/or open flames.

- 5. DO NOT ALLOW STEEL TO STRIKE AGAINST STEEL WHICH MAY PRODUCE A SPARK. Sparks can smolder in wood dust for a long time before fire or flame is detected. If metal contacts 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 in case of spark. Remedy the metal to metal contact problem before resuming operation.
- 6. WHEN EMPTYING DUST FROM THE COLLECTION BAGS, wear a respirator and safety glasses. Empty dust into an approved container and dispose of properly.
- 7. IF AT ANY TIME YOU ARE EXPERIENC-ING DIFFICULTIES PERFORMING THE INTENDED OPERATION, stop using the machine! Then contact our service department or ask a qualified expert how the operation should be performed.
- 8. 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. Always wear an approved respirator!

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 follow guidelines could result in serious personal injury, damage to equipment or poor work results.

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 an air cleaner. For safest use, wear a dust mask and use an air cleaner in addition to the dust collector.

SECTION 2: CIRCUIT REQUIREMENTS

G1028Z Wiring

The G1028Z Dust Collector is pre-wired for 110V, but can be rewired for 220V. Refer to the wiring diagram included with this manual for instruction. Do not attempt to rewire the motor if the diagram is missing. Contact the appropriate service center for more information.

A plug is not provided with the G1028Z. It will be necessary to purchase a standard 110V plug from your local hardware store. If you are rewiring for 220V, see **Figure 1** for the recommended 220V receptacle.

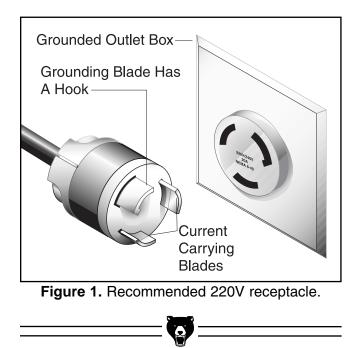
Circuit Breaker: The 1½ H.P. motor will draw roughly 18 amps at 110V or 9 amps at 220V. We recommend a using 20 amp circuit breaker for 110V or 220V operation. Circuit breakers rated higher will not adequately protect the circuit. If you are using a fuse, we recommend a 30 amp slow blow for 110V or 220V operation. Fuses rated higher will not adequately protect the circuit.

G1029 Wiring

The G1029 Dust Collector is pre-wired for 220V.

A plug is not provided with the G1029. Refer to **Figure 1** for recommended 220V receptacle.

Circuit Breaker: The 2 H.P. motor will draw roughly 12 amps @ 220V. We recommend using a 20 amp circuit breaker. Circuit breakers rated higher will not adequately protect the motor. If you are using a fuse, we recommend 30 amp slow blow 220V service. Fuses rated higher will not adequately protect the motor.



Grounding

In the event of an electrical short, grounding provides electric current a path of least resistance to reduce the risk of electrical shock. This tool is equipped with an electric cord having an equipment-grounding conductor which must be properly connected to a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.

Improper connections of the electrical-grounding conductor can result in the risk of electric shock. The conductor with green or green and yellow striped insulation is the electrical-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment grounding conductor to a live terminal.



This equipment must be grounded. Verify that any existing electrical outlet and circuit you intend to plug into is actually grounded. Under no circumstances should the grounding pin from any three-pronged plug be removed. Serious injury may occur.



Extension Cords

We do not recommend the use of extension cords with 220V equipment. Instead, arrange the placement of your equipment and the installed wiring to eliminate the need for extension cords. Should the situation be necessary to use an extension, make sure the cord is rated Hard Service (grade S) or better. Refer to the chart in **Section 1: Safety Instructions** to determine the minimum gauge for the extension cord when using either 110V or 220V. The extension cord must also contain a ground wire and plug pin. Always repair or replace extension cords when they become worn or damaged.



We have covered some basic electrical requirements for the safe operation of your machine. These requirements are not necessarily comprehensive. You must be sure that your particular electrical configuration complies with local and state codes. Ensure compliance by checking with your local municipality or a licensed electrician.



WARNING

If you are unsure about the correct installation or modification of electrical circuits, please consult the advice of a qualified electrician. Failure to do so could result in serious personal injury.

SECTION 3: INTRODUCTION

Commentary

Grizzly Industrial, Inc. is proud to offer the Model G1028Z/G1029 Dust Collector. These dust collectors are a part of Grizzly's growing family of fine machinery. When used according to the guidelines set forth in this manual, you can expect years of trouble-free, enjoyable operation and proof of Grizzly's commitment to customer satisfaction.

The G1028Z/G1029 Dust Collector represents the mid-range of our broad line of dust collectors. Standard features for both dust collectors include a push button switch, cyclone collector, and two large filter/collection bags. The G1028Z has a 11/2 H.P. motor which is pre-wired for 110V and has a 6" intake port. Air movement is 1400 cubic feet per minute with a static pressure of 9". The G1029 features a 2 H.P. motor which is pre-wired for 220V and has a 6" inlet. Air movement is 1600 cubic feet per minute with a static pressure of 11". We also offer a full line of optional accessories to build a collection system for a single machine or a complete shop including a two-stage adapter and a dust collection reference book. All accessories are offered through the current Grizzly catalog.

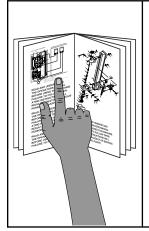
We are also pleased to provide this manual with the Model G1028Z/G1029. It was written to guide you through assembly, review safety considerations, and cover general operating procedures. It represents our effort to produce the best documentation possible. If you have any comments regarding this manual, please write to us at the address below:

> Grizzly Industrial, Inc. ^c/_o Technical Documentation P.O. Box 2069 Bellingham, WA 98227-2069

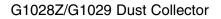
Most important, we stand behind our machines. If you have any service questions or parts requests, please call or write us at the location listed below.

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

The specifications, drawings, and photographs illustrated in this manual represent the Model G1028Z/G1029 as supplied when the manual was prepared. However, owing to Grizzly's policy of continuous improvement, changes may be made at any time with no obligation on the part of Grizzly. Whenever possible, though, we send manual updates to all owners of a particular tool or machine. Should you receive one, we urge you to insert the new information with the old and keep it for reference.



Read the manual before assembly and operation. Become familiar with the machine and its operation before beginning any work. Serious personal injury may result if safety or operational information is not understood or followed.

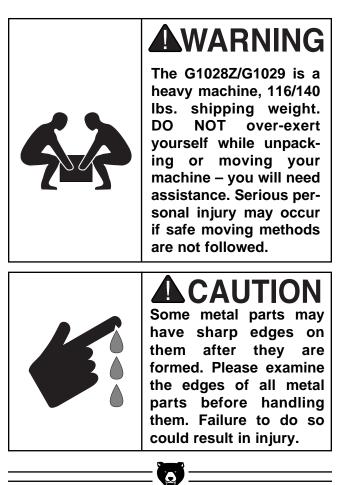


Unpacking

The Model G1028Z/G1029 Dust Collector is shipped from the manufacturer in a carefully packed carton. If you discover the machine is damaged after you've signed for delivery, *please call Customer Service immediately 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, you should inventory its parts.



Piece Inventory

After all the parts have been removed from the carton, you should have:

- Collector Body Assembly
 - Base
 - "Y" Inlet
- Collection/Filter Bags
- Lower Support Brackets (2)
- Casters (4)
- Rubber Gasket
- Upper Support Bracket
- Outlet
- Outlet Hose
- Hose Clamps
- Hex Bolts ⁵/₁₆"-18 x ¹/₂" (36)

In the event that any non-proprietary parts are missing (e.g. a nut or a washer), we would be glad to replace them, or, for the sake of expediency, replacements can be obtained at your local hardware store.

NOTICE

A full parts list and breakdown can be found toward the end of this manual. For easier assembly, or to identify missing parts, please refer to the detailed illustrations at the end of the manual.

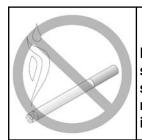


Clean Up

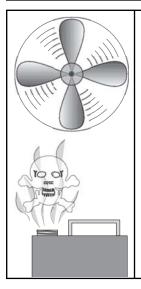
The unpainted surfaces are coated with a waxy oil to protect them from corrosion during shipment. Remove this protective coating with a solvent cleaner or citrus-based degreaser such as Grizzly's G7895 Degreaser. Avoid chlorine-based solvents as they may damage painted surfaces should they come in contact. Always follow the usage instructions on the product you choose for clean up.



Do not use gasoline or other petroleum-based solvents. They have low flash points which make them extremely flammable. A risk of explosion and burning exists if these products are used. Serious personal injury may occur if this warning is ignored.



Do not smoke while using solvents. A risk of explosion or fire exists and may result in serious personal injury.



CAUTION

Many of the solvents commonly used to clean machinery can be toxic when inhaled or ingested. Always work in wellventilated areas far from potential ignition sources when dealing with solvents. Use care when disposing of waste rags and towels to be sure they do not create fire or environmental hazards.

FLOOR LOAD

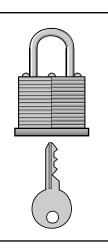
Your Model G1028Z/G1029 represents a moderate weight load in an average footprint. Most commercial or home shop floors should be sufficient to carry the weight of the Model G1028Z/G1029. If you question the strength of your floor, you can opt to reinforce it.

WORKING CLEARANCES

Working clearances can be thought of as the distances between machines and obstacles that allow safe operation of every machine without limitation. Consider existing and anticipated machine needs, size of material to be processed through each machine, and space for auxiliary stands and/or work tables. Also, consider the relative position of each machine to one another for efficient material handling. Be sure to allow yourself sufficient room to safely run your machines in any foreseeable operation and keep dust collection hoses off the floor and out of the way.

LIGHTING AND OUTLETS

Lighting should be bright enough to eliminate shadows and prevent eye strain. Electrical circuits should be dedicated or large enough to handle combined motor amp loads. Outlets should be located near each machine so power or extension cords are not obstructing high-traffic areas. Be sure to observe local electrical codes for proper installation of new lighting, outlets, or circuits.



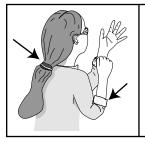
Make your shop "child safe." Ensure that your workplace is inaccessible to youngsters by closing and locking all entrances when you are away. Never allow visitors in your shop when assembling, adjusting or operating equipment.

SECTION 4: ASSEMBLY

Beginning Assembly



Disconnect power to the machine when performing any maintenance, assembly or adjustments. Failure to do this may result in serious personal injury.



Keep loose clothing rolled up and out of the way of machinery and keep hair pulled back.



Wear safety glasses during the entire assembly process. Failure to com-

process. Failure to comply may result in serious personal injury.



Some metal parts may have sharp edges on them after they are formed. Please examine the edges of all metal parts before handling them. Failure to do so could result in injury.

We have organized the assembly process into steps. Please follow along in the order presented here.

Tools Required: 12mm open end wrench, regular and Phillips head screwdriver.

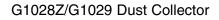


Base

Position the base plate upside down and locate the casters so they are within easy reach. Mount the casters to the base plate using sixteen (16) $\frac{5}{16}$ "-18 x $\frac{1}{2}$ " hex bolts provided. See Figure 2.



Figure 2. Mounting casters to base.



Collector Body

The collector body includes the fan assembly, switch, and motor which are preassembled at the factory. Set the collector body on top of the base plate so the intake portion is near the edge of the base plate and the bolt holes are lined up as shown in **Figure 3.** Secure the collector body to the base plate with four (4) $\frac{5}{16}$ "-18 x $\frac{1}{2}$ " hex bolts provided.



Figure 3. Mounting collector to base.

The outlet can now be attached to the main collector body. Insert the **rubber gasket** between the collector and lower outlet flange and secure using eight (8) $\frac{5}{16}$ "-18 x $\frac{1}{2}$ " hex bolts provided. See Figure 4.



Figure 4. Mounting outlet to collector body.



Support Brackets

Collector

There are two lower collector support brackets and one upper bag support bracket. Attach the collector brackets to the top edge of the base plate using four (4) $\frac{5}{16}$ "-18 x $\frac{1}{2}$ " hex bolts provided, as shown in **Figure 5**.



Figure 5. Mounting brackets to base.

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.

Secure the front support bracket to the collector with two (2) $\frac{5}{16}$ "-18 x $\frac{3}{4}$ " hex bolts provided. Before securing the rear support bracket to the collector, line up the upper bag support bracket bolt holes with the collector support bracket bolt holes and the collector. Secure with two (2) $\frac{5}{16}$ "-18 x $\frac{3}{4}$ " bolts provided, as shown in **Figure 6.**



Figure 6. Mounting collector to brackets.

Flex Hose

Slip a loosened hose clamp over each end of the flex-hose and slide one end of the flex-hose over the outlet flange. Slide the other end of the flex-hose onto the collector. Tighten each hose clamp until snug as shown in **Figure 7**.



Figure 7. Attaching flex hose.

1. Hook the top loop of the filter bag over the support bracket as shown in **Figure 8.**



Figure 8. Attaching filter bag.

2. Slip the top collection bag over the top edge of the collector and pull the strap tight to secure the bag as shown in **Figure 9**.



Figure 9. Securing collection bag.

3. Slip the steel band around the bag and tighten down as shown in **Figure 10**.

Inlet



Figure 10. Tightening steel band.

- 4. Slip the bottom collection bag over the bottom edge of the collector and pull the strap tight to secure the bag.
- **5.** Place the steel band with the quick clamp over the bag and clamp on the tightest notch possible.

DO NOT force the clamp. Instead, choose the next notch over, then clamp in place.



Press the "Y" inlet onto the inlet cover flange as shown in **Figure 11.** The inlet is secured to the collector body by a press-on fit.



Figure 11. Installing "Y" inlet.

SECTION 5: Designing The System

General

The Model G1028Z/G1029 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.

The Model G1028Z/G1029 is designed to be a central dust collector system. Locate 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. Because of the large suction capacity of the Model G1028Z/G1029, great flexibility is possible in the planning and designing of your dust collection duct layout. 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 dispursed into the air.



Material Selection

You have many choices regarding main line and branch line duct material. In most commercial workshops, the main line and branch lines are usually metal duct. Flexible hose is then used to connect each machine to the branch lines. In the case of small home shops, flexible hose may be used for both main line and branch line ducts. Plastic duct is also a popular material for home shops. Please 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 the manual.

METAL DUCT

Metal duct comes in many varieties. Stove pipe, heating/ventilation duct and duct made especially for dust collection are all options. 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. However, metal duct is generally more expensive than plastic duct and it is not usually airtight unless specifically manufactured for dust collection. Specially manufactured metal duct, on the other hand, is guite expensive. Metal duct is also generally more difficult to cut and assemble.

FLEXIBLE HOSE

Flexible rubber hose, polyethylene, plastic flexhose and other flexible ribbed hose is generally used for short runs, small shops and at rigid ductto-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. 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.

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.

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, whether black ABS or white PVC and even rubber or polyethylene flex-hose, is the inherent danger of static electrical build-up.



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.



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 12**) around the blast gate without interruption to the grounding system.

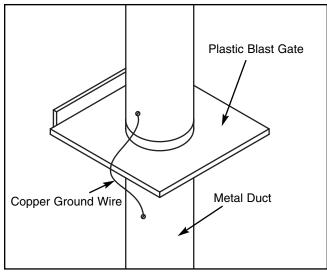
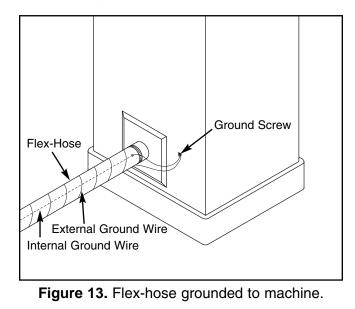


Figure 12. Ground jumper wire when using plastic blast gates and metal duct.

We also recommend wrapping the outside of all plastic ducts with bare copper wire to ground the outside of the system against static electrical 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 the dust collector frame with a ground screw as shown in **Figure 13.** Ensure that each machine is continuously grounded to the grounding terminal in your electric service panel.



Design Suggestions

When designing a successful dust collection system, planning is the most important step. Before you set out to run the first section of duct, consider these general guidelines for an efficient system:

- 1. Machines that produce the most saw dust should be placed nearest to the dust collector. These machines include thickness planers, shapers, sanders and bandsaws.
- 2. Ideally, you should design the duct system to have the shortest possible mainline run and to have short secondary branch ducts.
- **3.** Directional changes should be kept to a minimum. The more directional change fittings you use, the greater the loss of overall pressure.
- 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 machine should have a blast gate to control suction from one machine to another.
- 6. The simpler the system, the more efficient and less costly it will be.

The best way to plan your new system is to draw a bird's eye view (as shown in **Figure 14**) of your shop and sketch the following:

- 1. Your desired location of the dust collector, usually in a corner or along a wall.
- 2. The location of each machine in the system.
- **3.** The location of the main line duct and each branch line.
- **4.** The location of any obtrusion such as a joist or heating duct, that will require special duct routing.

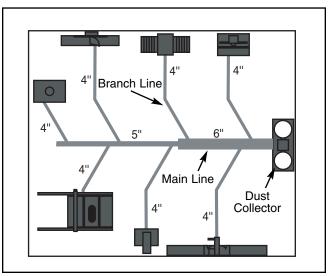


Figure 14. Bird's eye planning view.



SECTION 6: OPERATIONS

Test Run



Once assembly is complete and adjustments are done to your satisfaction, you are ready to test run the machine.

Turn on the power supply at the main panel. Press the *START* button. Make sure that your finger is poised on the *STOP* button, just in case there is a problem. The dust collector should run smoothly, with little or no vibration or rubbing noises. Strange or unnatural noises should be investigated and corrected before operating the machine further.

If you cannot easily locate the source of an unusual noise or vibration, contact our service department for help.



General

Operating your Model G1028Z/G1029 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.



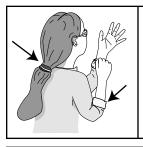
DO NOT use the dust collector for any other purpose besides collecting dust from connected woodworking machines. A dust collector should NEVER be used as an air cleaner. For safest use, wear a dust mask and use an air cleaner in addition to the dust collector.

SECTION 7: MAINTENANCE



AWARNING Disconnect power to the

machine when performing any maintenance, assembly or adjustments. Failure to do this may result in serious personal injury.



WARNING

Keep loose clothing rolled up and out of the way of machinery and keep hair pulled back.



AWARNING Wear safety glasses dur-

ing the entire maintenance process. Failure to comply may result in serious personal injury.

General

Regular periodic maintenance on your Model G1028Z/G1029 Dust Collector will ensure its optimum performance. Make a habit of inspecting your machine each time you use it. Check for the following conditions and repair or replace when necessary:

- **1.** Loose mounting bolts.
- 2. Worn switch.
- 3. Worn or damaged cords and plugs.
- **4.** Any other condition that could hamper the safe operation of this machine.
- 5. Do not let collection bags get completely full.

Lubrication

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



Bag Cleaning

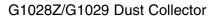


Always wear a dust mask when changing the dust collection bags on the dust collector. Sawdust may cause allergic reactions or respiratory problems.

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 airborn and easily inhailed. This microscopic airborn dust is extremely unhealthy to breathe and can cause serious health problems.

While the Model G1028Z/G1029 excels at collecting the majority of wood dust produced by your machines, it is not an air filter; therfore, **we strongly recommend** the supplemental aid of a shop air filter such as the Grizzly G5955 or G9956. Air filters are designed to collect the smaller dust particles that a dust collector bags cannot trap.



SECTION 8: CLOSURE

The following pages contain general machine data, parts diagram, parts list and Warranty/Return information for your Model G1028Z/G1029 Dust Collector.

If you need parts or help in assembling your machine, or if you need operational information, we encourage you to call the appropriate regional Service Department. Our trained service technicians will be glad to help you.

If you have comments dealing specifically with this manual, please write to our Bellingham, Washington location using the address in the Introduction. The specifications, drawings, and photographs illustrated in this manual represent the Model G1028Z/G1029 as supplied when the manual was prepared. However, due to Grizzly's policy of continuous improvement, changes may be made at any time with no obligation on the part of Grizzly.

We have included some important safety measures that are essential to this machine's operation. While most safety measures are generally universal, Grizzly reminds you that each workshop is different and safety rules should be considered as they apply to your specific situation.

Operating this equipment has the potential for flying debris to cause eye injury. Always wear safety glasses or goggles when operating equipment. Everyday glasses or reading glasses only have impact resistant lenses, they are not safety glasses. Be certain the safety glasses you wear meet the appropriate standards of the American National Standards Institute (ANSI).



We recommend you keep a copy of our current catalog for complete information regarding Grizzly's warranty and return policy. If you need additional technical information relating to this machine, or if you need general assistance or replacement parts, please contact the Service Department listed in **Section 3 Introduction.**

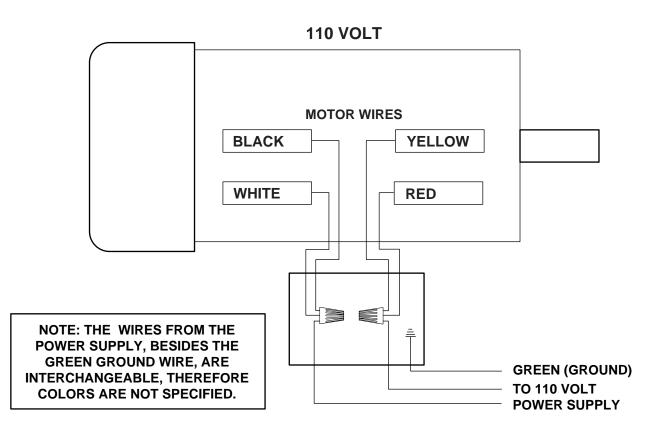
Additional information sources are necessary to realize the full potential of this machine. Trade journals, woodworking magazines, and your local library are good places to start.

The Model G1028Z/G1029 was specifically designed for dust collecting operation. DO NOT MODIFY AND/OR USE THIS MACHINE FOR ANY OTHER PURPOSE. Modifications or improper use of this tool will void the warranty. If you are confused about any aspect of this machine, DO NOT use it until all your questions have been answered. Serious personal injury may occur.

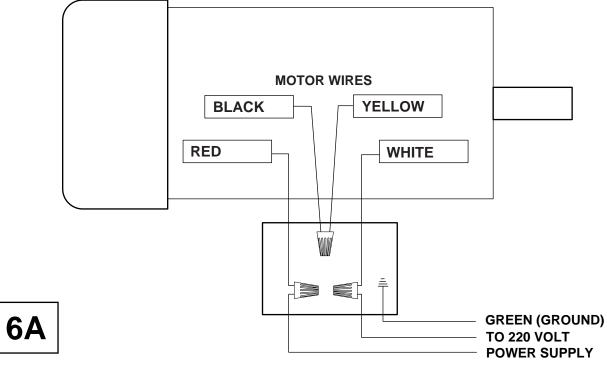
WARNING

Like all power tools, there is danger associated with the Model G1028Z/G1029. Accidents are frequently caused by lack of familiarity or failure to pay attention. Use this tool with respect and caution to lessen the possibility of operator injury. If normal safety precautions are overlooked or ignored, serious personal injury may occur.

WIRE DIAGRAM



220VOLT





MACHINE DATA SHEET

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

GRIZZLY MODEL G1028Z/G1029 DUST COLLECTOR

Design Type:.....Single Stage - Upright on Casters

Overall Dimensions:

Base	
Height	
Intake Hole Size, G1028Z	
Intake Hole Size, G1029	6"
Intake Hole Size W/ Adapter	4" x 2 Holes
Bag Size (Each)	19" x 33"
Bag Capacity (Each)	5 cu. ft.
Bag Material	Fabric
Shipping Weight, G1028Z	
Shipping Weight, G1029	140 lbs.
Impeller Size, G1028Z	
Impeller Size, G1029	
Air Suction Capacity, G1028Z	1400 C.F.M.
Air Suction Capacity, G1029	1600 C.F.M.
Static Pressure (Inches of Water), G1028Z	9"
Static Pressure (Inches of Water), G1029	11"

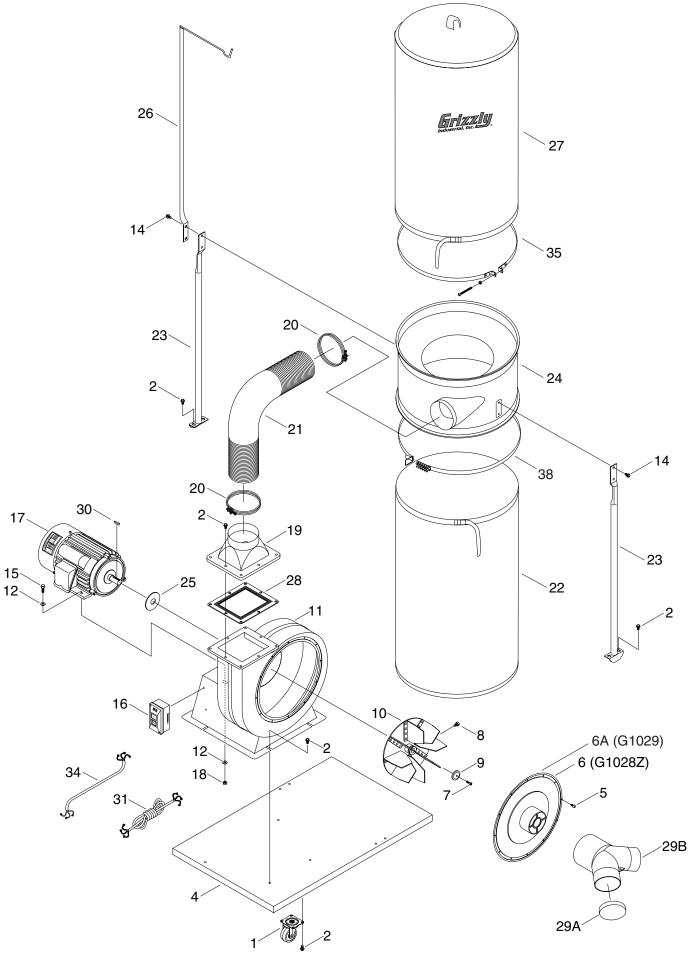
Construction:

Base	.Fabricated Sheet Metal with Casters
Impeller Type	Radial
Impeller Blade Thickness	

Electrical:

Туре	TEFC Capacitor Start Induction Motor
Horsepower, G1028Z	
Horsepower, G1029	
Phase/Cycle	Single/60 HZ
Voltage, G1028Z	110/220V
Voltage, G1029	
Amps, G1028Z	
Amps, G1029	
R.P.M	
Bearings	Sealed & Lubricated-for-Life, Ball Bearing

Specifications, while deemed accurate, are not guaranteed.



REF	PART #	DESCRIPTION
1	P1028001	CASTER
2	PFB01	FLANGE BOLT 5/16"-18 x 1/2"
4	P1028004	BASE PLATE
5	PS06	PHLP HD SCR 10-24 X 3/8"
6	P1028Z006	INLET COVER (G1028Z)
6A	P1029006A	INLET COVER (G1029)
7	P1028007	CAP SCREW
8	PB09	HEX BOLT ⁵ /16"-18 x ¹ /2"
9	P1028009	SPECIAL WASHER
10	P1028010	10" IMPELLER (G1028Z)
10	P1029010	10" IMPELLER (G1029)
11	P1028011	COLLECTOR BODY
12	PW07	FLAT WASHER 5/16"
14	PFB01	FLANGE BOLT 5/16"-18 x 1/2"
15	PB03	HEX BOLT 5/16"-18 x 1"
16	PSW04	SWITCH
17	P1028Z017	MOTOR, 1 ¹ / ₂ H.P. (G1028Z)
17	P1029017	MOTOR, 2 H.P. (G1029)
18	PN02	HEX NUT ⁵ /16"-18
19	P1028019	OUTLET
20	P1028020	HOSE CLAMP
21	P1028021	HOSE
22	G1027	BAG, LOWER
23	P1028023	COLLECTOR SUPPORT
24	P1028024	COLLECTOR
25	P1028025	PACKING (G1028Z)
25	P1029025	PACKING (G1029)
26	P1028026	UPPER BAG SUPPORT
27	G1027	BAG, UPPER
28	P1028028	GASKET
29B	P1029029B	Y-INLET 6" X 4" X 4"
29A	P1029029A	INLET CAP 6"
30	PK32M	KEY 6 x 6 x 28 (G1028Z)
30	PK28M	KEY 7 x 7 x 29 (G1029)
31	PWRCRD220S	POWER CORD
34	PWRCRD220L	MOTOR CORD
35	P1028035	FILTER CLAMP
38	P1028Z038	QUICK RELEASE CLAMP

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.

WARRANTY CARD

Nam	е				
Stree	et				
City					Zip
Phon	e Number	E-Mail		FAX	
MOD	EL #	SERIAL #		Order #	
		voluntary basis. It will be used for m	narketing	purposes to help us develop better	products and services. Of
course	e, all information is strictly confide	ential.			
1.	How did you learn about us?				
	Advertisement	Friend	10.	Which benchtop tools do you own?	Check all that apply.
	Catalog	Card Deck			
	World Wide Web			1" x 42" Belt Sander 5" - 8" Drill Press	6" - 8" Grinder Mini Lathe
	Other			8" Table Saw	10" - 12" Thickness Planer
				8" - 10" Bandsaw	Scroll Saw
2.	Which of the following magazines of	lo you subscribe to.		Disc/Belt Sander Mini Jointer	Spindle/Belt Sander
	American Woodworker	Practical Homeowner			
	Cabinetmaker	Shop Notes		Other	
	Family Handyman Fine Homebuilding	Today's Homeowner WOOD	11.	How many of the machines checked	above are Grizzly?
	Fine Woodworking	Wooden Boat		· · · · · · · · · · · · · · · · · · ·	······································
	Home Handyman	Woodshop News	12.	Which portable/hand held power too	els do you own? Check all that apply
	Journal of Light Construction Old House Journal	Woodsmith Woodwork		Belt Sander	Orbital Sander
	Popular Mechanics	Woodworker		Biscuit Joiner	Palm Sander
	Popular Science	Woodworker's Journal		Circular Saw	Portable Planer
	Popular Woodworking	Workbench		Detail Sander	Saber Saw
	Other			Drill/Driver Miter Saw	Reciprocating Saw Router
3.	Which of the following woodworking	g/remodeling shows do you watch?		Other	
	Backyard America	The New Yankee Workshop	13.	What machines/supplies would you	like Grizzly Industrial to carry?
	Home Time	This Old House	10.		into anzzi y induction to carry.
	The American Woodworker	Woodwright's Shop			
	Other				
4.	What is your annual household inco	ome?			
	\$20.000-\$29.999	\$60,000-\$69,999	14.	What new accessories would you lik	te Grizzly industrial to carry?
	\$30.000-\$39.999	\$70,000-\$79,999			
	\$40,000-\$49,999	\$80,000-\$89,999			
	\$50,000-\$59,999	\$90,000 +			
5.	What is your age group?		15.	What other companies do you purch	nase your tools and supplies from?
	00.00	50.50			
	20-29 30-39	50-59 60-69			
	40-49	70 +			
0			16.	Do you think your purchase represe	nts good value?
6.	How long have you been a woodwo	orker?		Yes	No
	0 - 2 Years	8 - 20 Years			
	2 - 8 Years	20+ Years	17.	Would you recommend Grizzly Indu	strial to a friend?
7.	How would you rank your woodwor	king skills?		Yes	No
	Simple	Advanced	18.	Would you allow us to use your name	e as a reference for Grizzly customer
		Master Craftsman		in your area? Note: We never use	
8.	What stationary woodworking tools	do you own? Check all that apply.		Yes	No
	Air Compressor	Panel Saw	19.	Comments:	
	Band Saw	Planer Bower Fooder			
	Drill Press Drum Sander	Power Feeder Radial Arm Saw			
	Dust Collector	Shaper			
	Horizontal Boring Machine	Spindle Sander			
	Jointer	Table Saw			
	Lathe	Vacuum Veneer Press			
	Mortiser	Wide Belt Sander			
	Other				

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

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Send a Grizzly Catalog to a friend:

Name	 		_
Street			_
City	 State	Zip	_