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18V CORDLESS POWER DRILLS

MODEL G8596 $\frac{3}{8}$ " CHUCK

MODEL G8597 $\frac{1}{2}$ " CHUCK

INSTRUCTION SHEET



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**WARNING: NO PORTION OF THIS MANUAL MAY BE REPRODUCED IN ANY SHAPE
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NOVEMBER, 1999 PRINTED IN CHINA



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 chemical 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.

SAFETY

WARNING

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.

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 equipment.

WARNING

Safety Instructions For Power Tools

- 1. KEEP ALL SAFETY DEVICES 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. DON'T USE IN DANGEROUS ENVIRONMENT.** Don't 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 WORK SHOP CHILD PROOF** with padlocks, master switches, or by removing starter keys.
- 7. DON'T FORCE TOOL.** It will do the job better and safer at the rate for which it was designed.
- 8. USE RIGHT TOOL.** Don't force tool or attachment to do a job for which it was not designed.



WARNING

Safety Instructions For Power Tools

- 9. USE PROPER EXTENSION CORD** for the charger. 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

AMP RATING	LENGTH		
	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. DON'T OVERREACH.** Keep proper footing and balance at all times.
- 14. MAINTAIN TOOLS WITH CARE.** Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
- 15. DISCONNECT TOOLS** before servicing and changing accessories, such as blades, bits, cutters, and the like.
- 16. REDUCE THE RISK OF UNINTENTIONAL STARTING.** Make sure switch is in off position before plugging in.
- 17. USE RECOMMENDED ACCESSORIES.** Consult the owner's manual for recommended accessories. The use of improper accessories may cause risk of injury.
- 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 UNATTENDED. TURN POWER OFF.** Don't leave tool until it comes to a complete stop.

CHARGING SAFETY

WARNING

- 1. READ ALL INSTRUCTIONS** and warnings on the battery and charger before charging the battery.
- 2. CHARGE ONLY USING THE SUPPLIED CHARGER AND BATTERY.** Do not use with other batteries, chargers or drills.
- 3. DO NOT EXPOSE BATTERY OR CHARGER TO WET OR RAINY CONDITIONS.** Moisture greatly increases the risk of a shock hazard.
- 4. DO NOT TOUCH BATTERY POLES** with any conductive materials. Touching any two poles at the same time causes a short condition and can cause sparks, electrical shock or fire.
- 5. DO NOT STORE BATTERY WITH CONDUCTIVE MATERIALS.** Storing the battery in a box of screws or nails can cause shorting across the battery poles.
- 6. DO NOT THROW BATTERY IN FIRE.** Combustion of some of the batteries' component materials can cause toxic fumes and possible explosion.
- 7. IF CHARGER LIGHT FAILS TO COME ON** check the incoming power supply. If power source is okay, then the fuse inside the charger needs replacement. Charger should be serviced by a qualified electrical technician only.
- 8. CHARGER HAS A POLARIZED PLUG** (one prong is wider than the other). Do not attempt to modify the plug. Modifying the plug will result in a safety hazard and will void the warranty.
- 9. CHARGER IS DESIGNED TO OPERATE AT 110-120 VOLTS.** Never try to plug into any circuit that is not 110-120 volts. Never modify or change the plug that is attached to the charger unit to attempt to plug into 220 volt. This can cause serious electrical damage to the unit, possible fire or explosion.



Ni-Cd

BATTERY MUST BE RECYCLED OR DISPOSED OF PROPERLY. Consult your local Yellow Pages directory under the category "Recycling" to locate a battery recycler in your area.

BEFORE YOU START

First review the contents of your cordless tool kit and familiarize yourself with the key components. Figure 1 shows the contents of the kit:

Heavy-Duty Case
Cordless Drill
Battery Pack
Bit Extension
6 pc Twist Drill Set
6 pc Screwdriver Bit Set
Double End Phillips®/Straight
AC Adapter and Charging Stand
or
1 Hour Charger

The battery in your new cordless power tool will not be fully charged when you receive it. To maximize the storage capacity of the battery it should be completely discharged, then fully recharged 3-5 times.

For optimal life span, completely discharge the battery before recharging. Your kit comes with one of the following types of chargers:

Battery charging with the standard charger (2 piece charger):

1. Plug the AC adapter into the 110/120V outlet.
2. Plug the pin jack from the AC adapter into the charging base.
3. Insert the battery into the charger. The battery fits into the oval recess in only one way. Do not force the battery. Insert until it locks into place.
4. The red LED light on the charging unit will come on when the battery begins its charging cycle.
5. Charge battery for 3-5 hours for a full charge from a fully depleted condition. The red LED will not go off until

the battery is removed from the charger base.

Battery charging with the 1 hour “Smart” charger (1 piece charger):

1. Plug the charger into an appropriate 110/120V outlet.
2. Insert the battery into the charger. The battery fits into the oval recess in only one way. Do not force the battery. Insert until it locks into place.
3. The green light over the word “OFF” on the control panel should come on. If it doesn’t, make certain the wall outlet you are plugged into is working. If the outlet power is okay, the fuse inside the charger may have blown. Fuses should be replaced by a qualified electrical technician.
4. To begin charging, press the “SET” button. A steady red light over the word “ON” should come on indicating the battery is being charged.
5. When the battery is fully charged, the red light will go off and the unit will stop charging. Remove the battery from the charger upon completion of the charge cycle.

CAUTION

Never leave a battery unattended while charging. While charging will make the battery and charging unit warm, if it becomes hot to the touch, disconnect the charger immediately. There is a possibility of fire hazard. Have the battery and charging unit checked by a qualified electrical service technician.

OPERATION

Inserting Battery Into Drill

1. Insert the battery into the handle of the drill so that the long end is forward. The battery will only install in one orientation.
2. Make sure the securing clasps on either side of the drill base engage with the clips on the battery compartment.

Inserting and Removing Bits and Drivers:

1. Set the direction switch, located just above the trigger, so that it is in the center position.
2. Hold the chuck by the collar while turning the sleeve (the forward section). **See Figure 1.** This will cause the three chuck jaws located inside the recess to open or close depending upon the direction.
3. When the jaws are at the approximate diameter of the bit or driver, insert the shank end of the bit or driver into the jaw opening.
4. Turn the sleeve clockwise until it tightens around the bit or driver. Never “power tighten” which is holding the sleeve while running the drill. This can cause a loose grip on the bit or driver and potential damage to chuck jaws. Check for tightness periodically while using the tool.
5. To release the bit or driver, hold the chuck collar, and turn the sleeve counterclockwise.



Fig 1. Inserting bits into the chuck.

WARNING

Operating this equipment has the potential to propel debris into the air which can cause eye injury. Always wear safety glasses or goggles when operating equipment. Be certain the safety glasses you wear meet the appropriate standards of the American National Standards Institute (ANSI).

OPERATION, CONT'D

Operating the drill

1. **Set the Direction Switch** for the desired rotation of the bit or driver. The direction switch is the sliding switch located just above the trigger. When looking down on the drill, pushing the switch all the way to the right will give a counterclockwise rotation (normally for loosening fasteners and bits), all the way to the left will be clockwise (normally for tightening fasteners and drilling holes). When the switch is in the center position it locks the switch to avoid accidentally starting the drill.
2. **Set the Torque Setting Ring** located just behind the chuck. This ring has

16 settings on it, and a pointer indicator embossed on the drill case. Set on 1 for very light applications such as driving screws into drywall. Use the higher settings for denser woods and materials. Use the drill bit symbol when boring holes. Using the proper torque setting will ensure that the fastener is not driven too deeply damaging the surface material, or in the worst case, stripped out of the hole due to over-torquing.

3. **Select speed and pull the trigger** to activate the drill. This drill has two speeds, fast and slow, controlled by a sliding switch on the top of the drill.



Fig 2. Location of controls.

OPERATING TIPS AND MAINTENANCE

Operating Guides and Tips

Avoid overloading the drill. Always use sharpened drill bits. Do not apply excessive pressure to the drill while using. If the speed drops abnormally, decrease pressure immediately. If the bit stops abruptly or becomes blocked, release the trigger at once. Reverse the direction to free the drill bit.

Ensure the safety of the workplace.

Clear the work area of all parts and debris that may cause injury by flying objects. Securely fix the object to be drilled or fastened in a vise or otherwise clamp to avoid injury. Do not attempt to hold workpiece by hand.

Inspect the drill before use. Run the drill before using to ensure all parts are running smoothly and there are no abnormal sounds or sparks. If any defect is found, have unit serviced.

Match your speed to your torque. Use low torque and high speeds for boring through light materials. Use low torque and low speeds for driving screws into light materials. For the highest setting, combine a low speed with the "Drill Bit" symbol on the Torque Setting Ring.

Know your worksite. Only drill as deep as necessary. Check behind walls for wires, other electrical hazards, or plumbing.

Use accessories properly. Use the lowest possible torque setting when driving fasteners. This will increase the life span of the driving bit and prevent damage to the fastener.

Maintenance

Your cordless power tool will give you hundreds of hours of operation time before ever needing service. The electrical components of this cordless drill are not user serviceable. Repair should always be undertaken by a qualified electrical repair technician.

Keep the drill free from dirt and grease. Always store it in a dry place, preferably in the case that is supplied.

The battery will require periodic recharging, and eventually replacement after it has exceeded its recharge life (approximately 800-1000 recharge cycles). You will notice extended charging times or shortened operation time as the battery experiences more cycles. **Battery must be recycled or disposed of properly.** Refer to the Grizzly catalog for replacement batteries.

WARNING

Disassembly and improper reassembly of this device can result in electrical shock danger. Always have this device serviced by an qualified electrical repair technician. Serious injury will result.

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.

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

NOTES

WARRANTY CARD

Name _____
Street _____
City _____ State _____ Zip _____
Phone Number _____ E-Mail _____ FAX _____

MODEL # _____ Order # _____

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
☐ World Wide Web
☐ Other _____
2. What is your annual household income?
☐ \$20,000-\$29,999 ☐ \$60,000-\$69,999
☐ \$30,000-\$39,999 ☐ \$70,000-\$79,999
☐ \$40,000-\$49,999 ☐ \$80,000-\$89,999
☐ \$50,000-\$59,999 ☐ \$90,000 +
3. What is your age group?
☐ 20-29 ☐ 50-59
☐ 30-39 ☐ 60-69
☐ 40-49 ☐ 70 +
4. How long have you been a woodworker?
☐ 0 - 2 Years ☐ 8 - 20 Years
☐ 2 - 8 Years ☐ 20+ Years
5. How would you rank your woodworking skills?
☐ Simple ☐ Advanced
☐ Intermediate ☐ Master Craftsman
6. What stationary woodworking tools do you own? Check all that apply.
☐ Air Compressor ☐ Panel Saw
☐ Band Saw ☐ Planer
☐ Drill Press ☐ Power Feeder
☐ Drum Sander ☐ Radial Arm Saw
☐ Dust Collector ☐ Shaper
☐ Spindle Sander ☐ Jointer
☐ Table Saw ☐ Lathe
☐ Mortiser ☐ Wide Belt Sander
☐ Horiz.Boring Machine
☐ Vacuum Veneer Press
☐ Other _____
7. How many of your woodworking machines are Grizzly? _____
8. Which benchtop tools do you own? Check all that apply.
☐ 1"x42" Belt Sander ☐ 6" - 8" Grinder
☐ 5" - 8" Drill Press ☐ Mini Lathe
☐ 8" Table Saw ☐ 8" - 10" Bandsaw
☐ Scroll Saw ☐ Disc/Belt Sander
☐ Spindle/Belt Sander ☐ Mini Jointer
☐ 10"-12" Thickness Planer
☐ Other _____
9. How many of the machines checked above are Grizzly? _____
10. Which portable/hand held power tools do you own? Check all that apply.
☐ Belt Sander ☐ Orbital Sander
☐ Biscuit Joiner ☐ Palm Sander
☐ Circular Saw ☐ Portable Planer
☐ Detail Sander ☐ Saber Saw
☐ Drill/Driver ☐ Reciprocating Saw
☐ Miter Saw ☐ Router
☐ Other _____
11. What machines/supplies would you like Grizzly Industrial to carry?
☐ 12" Table Saw ☐ Radial Arm Saw
☐ 12" Jointer ☐ Panel Saw
☐ Brass Hardware ☐ Lumber
☐ Paint & Finishing Supplies
☐ Contractor's Supplies
☐ Combination Planer/Jointer
☐ Other _____
12. What new accessories would you like Grizzly Industrial to carry?
☐ Builders Hardware ☐ Hand Tools
☐ Fasteners
☐ Wood Components
☐ Other _____
13. What other companies do you purchase your tools and supplies from?

14. Do you think your purchase represents good value?
☐ Yes ☐ No
15. Would you recommend Grizzly to a friend?
☐ Yes ☐ No
16. Would you allow us to use your name as a reference for Grizzly customers in your area? **Note: We never use names more than three times.**
☐ Yes ☐ No
17. Comments: _____

Send a Grizzly Catalog to a friend:

Name_____			
Street_____			
City_____	State_____	Zip_____	

FOLD ALONG DOTTED LINE



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