

# H7792/H7793/H7794/H7795 CORDLESS DRILL OWNER'S MANUAL



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#EW7591 PRINTED IN CHINA



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.

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### INTRODUCTION

### **Foreword**

We are proud to offer the Grizzly Model H7792-H7795 Cordless Drills. These models are part of a growing Grizzly family of fine power tools. 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.

It is our pleasure to provide this manual with the Model H7792-H7795 Cordless Drills. It was written to encourage safety considerations and guide you through general operating procedures and maintenance.

The specifications, details, and photographs in this manual represent the Model H7792-H7795 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.

### **Contact Information**

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

Grizzly Industrial, Inc.
C/O Technical Documentation
P.O. Box 2069
Bellingham, WA 98227-2069

Most importantly, we stand behind our tools. 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



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



### MACHINE DATA SHEET

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

### Cordless Drill Models H7792, H7793, H7794, H7795

MODEL	H7792	H7793	H7794	H7795
VOLTAGE	12V	14.4V	12V	18V
AMP HOURS	1.5Ah	1.5Ah	1.5Ah	1.5Ah
VARIABLE SPEED	0-700 RPM	0-700 RPM	0-600 RPM	0-700 RPM
NUMBER OF CLUTCH SETTINGS	5 + Drill	5 + Drill	22 + Drill	22 + Drill
CHUCK CAPACITY	3/8"	3/8"	3/8"	3/8"
CHARGING TIME	1 Hr.	1 Hr.	1 Hr.	1 Hr.
WEIGHT WITH BATTERY	3.16 lbs.	3.38 lbs.	3.1 lbs.	3.6 lbs.

### Identification

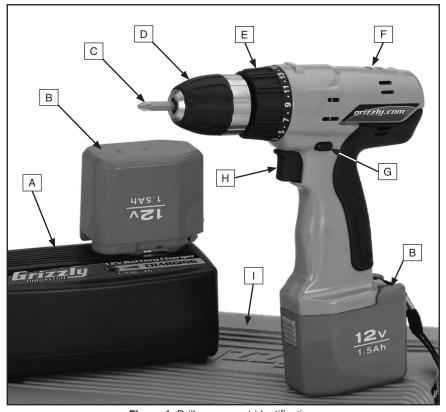


Figure 1. Drill component identification.

- A. Charger
- B. Battery
- C. Bit
- D. Keyless Chuck
- E. Torque Setting Ring

- F. Direction Indicator
- G. Direction Switch
- H. Trigger
- I. Case

### SECTION 1: SAFETY

# **AWARNING**

# 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.

# **A**WARNING

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, <u>MAY</u> 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 Machinery**

- READ THROUGH THE ENTIRE MANUAL BEFORE STARTING MACHINERY. Machinery presents serious injury hazards to untrained users.
- ALWAYS USE ANSI APPROVED SAFETY GLASSES WHEN OPERATING MACHINERY. Everyday eyeglasses only have impact resistant lenses, they are NOT safety glasses.
- 3. ALWAYS WEAR AN ANSI APPROVED RESPIRATOR WHEN OPERATING MACHINERY THAT PRODUCES DUST. Wood dust is a carcinogen and can cause cancer and severe respiratory illnesses.

- 4. ALWAYS USE HEARING PROTECTION WHEN OPERATING MACHINERY. Machinery noise can cause permanent hearing damage.
- WEAR PROPER APPAREL. DO NOT wear loose clothing, gloves, neckties, rings, or jewelry which may get caught in moving parts. Wear protective hair covering to contain long hair and wear non-slip footwear.
- NEVER OPERATE MACHINERY WHEN TIRED, OR UNDER THE INFLUENCE OF DRUGS OR ALCOHOL. Be mentally alert at all times when running machinery.

- ONLY ALLOW TRAINED AND PROPERLY SUPERVISED PER-SONNEL TO OPERATE MACHIN-ERY. Make sure operation instructions are safe and clearly understood.
- KEEP CHILDREN AND VISITORS AWAY. Keep all children and visitors a safe distance from the work area.
- MAKE WORKSHOP CHILD PROOF. Use padlocks, master switches, and remove switch keys.
- 10. NEVER LEAVE WHEN MACHINE IS RUNNING. Turn power OFF and allow all moving parts to come to a complete stop before leaving machine unattended.
- DO NOT USE IN DANGEROUS ENVIRONMENTS. DO NOT use machinery in damp, wet locations, or where any flammable or noxious fumes may exist.
- KEEP WORK AREA CLEAN AND WELL LIT. Clutter and dark shadows may cause accidents.
- 13. USE A GROUNDED EXTENSION CORD RATED FOR THE MACHINE AMPERAGE. Undersized cords overheat and lose power. Replace extension cords if they become damaged. DO NOT use extension cords for 220V machinery.
- 14. ALWAYS DISCONNECT FROM POWER SOURCE BEFORE SERVICING MACHINERY. Make sure switch is in OFF position before reconnecting.
- 15. MAINTAIN MACHINERY WITH CARE. Keep blades sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
- 16. MAKE SURE GUARDS ARE IN PLACE AND WORK CORRECTLY BEFORE USING MACHINERY.

- 17. REMOVE ADJUSTING KEYS AND WRENCHES. Make a habit of checking for keys and adjusting wrenches before turning machinery ON.
- 18. CHECK FOR DAMAGED PARTS
  BEFORE USING MACHINERY.
  Check for binding and alignment
  of parts, broken parts, part mounting, loose bolts, and any other
  conditions that may affect machine
  operation. Repair or replace damaged parts.
- 19. USE RECOMMENDED ACCESSORIES. Refer to the instruction manual for recommended accessories. The use of improper accessories may cause risk of injury.
- 20. DO NOT FORCE MACHINERY.
  Work at the speed for which
  the machine or accessory was
  designed.
- 21. SECURE WORK PIECE. 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.
- DO NOT OVERREACH. Keep proper footing and balance at all times.
- 23. MANY MACHINES WILL EJECT THE WORKPIECE TOWARD THE OPERATOR. Know and avoid conditions that cause the workpiece to "kickback."
- 24. ALWAYS LOCK MOBILE BASES (IF USED) BEFORE OPERATING MACHINERY.
- 25. BE AWARE THAT CERTAIN WOODS MAY CAUSE AN ALLER-GIC 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 and always wear an approved respirator.

# **AWARNING**

# Additional Safety Instructions for Cordless Drills

- READ THE ENTIRE MANUAL: This manual contains proper operating instructions for this drill.
- REMOVING/INSERTING BATTERY:
   Make sure the switch is in the lock (center) position before inserting or removing battery.
- REMOVE BATTERY: Remove the battery from the drill before changing bits or making adjustments.
- INSERTING THE BIT: Insert the bit all the way into the chuck and tighten firmly. If the bit is not inserted far enough the bit may slip.
- REMOVING THE BIT: The bit may be hot after use. Use gloves when removing.
- WORK AREA: DO NOT drill into walls that may contain live wires. Disconnect all power leading the work area.
- HOLDING THE WORKPIECE: Secure the workpiece with clamps or a vise to prevent injury. DO NOT hold the workpiece in your hand or across your legs.

- 8. HOLDING THE DRILL: When the clutch is in the drill position, the drill can twist severely, causing a sprained wrist or pinching your hand between the drill and a solid object. Hold the drill with both hands and be aware of the drill position to prevent injury.
- JAMMED BIT: Release the trigger, then slowly reverse the bit out of the hole. Be prepared for torque twist.
- **10. FORWARD/REVERSE:** Wait until the drill has come to a complete stop before changing direction.
- 11. ENLARGING HOLES: Enlarging holes by placing sideways pressure on the drill bit may cause the bit to break and/or damage the drill mechanism.
- **12. TRANSPORTING:** Prevent accidental entanglement with clothing and possible injury by removing the battery while carrying.
- TOOL SERVICE: If drill is damaged or not working properly, repair it before continuing to use it.

# **A**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.

# **AWARNING**

# Additional Safety Instructions for Batteries and Chargers

- READ THE ENTIRE MANUAL: Read and understand all of the instructions and warnings before charging the battery.
- CHARGING EQUIPMENT: Only charge using the charger and battery supplied with your drill. DO NOT use batteries or chargers from other cordless tools.
- 3. CHARGING ENVIRONMENT:
  Charge battery on a dry, hard surface in a shaded location with good ventilation. DO NOT place charger on or near flammable materials. DO NOT cover the charger when charging. Only charge the battery when the temperature is between 50°F (10°C)–104°F (40°C). Charging in temperatures beyond these extremes will damage the battery.
- 4. CHARGER VOLTAGE: DO NOT plug into a circuit that is not 110-120V. Changing the charger plug to plug into 220V will damage the charger, possibly causing a fire or an explosion. DO NOT charge from a DC power supply or a generator.
- DISCONNECT CHARGER: Unplug the charger when cleaning, or when not in use.

- CHARGER DAMAGE: Replace charger if it has been dropped, damaged, or has received a hard impact. Repair cord immediately if damaged.
- 7. SHORTING BATTERY: Avoid touching both terminals simultaneously with skin or metal, to prevent injury from an electrical shock and to prevent a fire from a spark. Storing the battery in a box of screws or nails can cause fire from a spark.
- CORD LOCATION: Prevent tripping over the cord by placing charger close to a wall and avoiding the use of an extension cord.
- CORD CARE: Keep cord away from heat, oil, and sharp objects. DO NOT carry the charger by the cord, or yank the cord to unplug the charger.
- 10. BATTERY DISPOSAL: The battery must be recycled or disposed of properly. DO NOT dispose of the battery in a landfill or incinerate. Combustion of some of the batteries' component materials can cause toxic fumes and possible explosion.



**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.

### **SECTION 2: OPERATIONS**

# Removing/Installing Battery

Remove the battery when changing bits, or to recharge the battery.

### To remove or install a battery:

- Push the direction switch into the lock (center) position to prevent accidental starting.
- Squeeze the lock lever(s) on the battery and pull down on the battery to remove.
- Replace the battery by pushing it into the handle of the drill until the lock lever(s) snap into place.

**Note:** The battery can only be installed in one direction.

### **Charging Battery**

The battery in your new cordless power tool will not be fully charged when you receive it. Storage capacity of the battery will be maximized once it is discharged, then fully recharged 3-5 times.

For optimal life span, use the battery until it can no operate the drill before charging. Charging the battery before it is fully drained can reduce battery performance. Follow the instructions below to charge your battery.

**Note:** When charging both batteries, wait 15 minutes for the charger to cool between charging batteries.

### To charge a battery:

- 1. Plug the charger into a 110V outlet.
- 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.

**Note:** Allow the battery to cool down before charging. After charging is completed, allow the battery to cool down before installing it in the drill.

3. The red light will come on (Models H7792/3 will blink slowly) when the battery is charging. Charge the battery for 1 hour or until the charging light turns green (Models H7794/5) or blinks rapidly (Models H7792/3). After several hours the light will turn off and the unit will stop charging.

**Note:** It is normal for the battery and charger to become warm during charging.

**4.** Remove the battery when fully charged and unplug the charger.



Never leave a battery unattended while charging to prevent a chance of fire. Disconnect the charger immediately if the battery or charger becomes too hot to touch, then have the battery and charger checked by a qualified electrical service technician.

### **Direction Switch**

The direction switch can be placed in the center position to prevent the drill from operating, to the right for clockwise bit rotation, or to the left for counterclockwise rotation.

#### To set the drilling rotation:

 To place the direction switch (Figure 2) in the lock (center) position, push the switch until it protrudes equally from both sides of the drill.



Figure 2. Direction switch.

- Push the direction switch in from the right side for clockwise rotation (forward).
- 3. Push the direction switch from the left side for counterclockwise rotation (reverse).
- Pull the trigger and look at the lighted arrows on the top of the drill to confirm direction.

### **Installing Bits**

This drill is intended for use with drill bits or screwdriver bits with up to 3/8" shanks.

#### To install a bit:

- **1.** Place the direction switch in the lock (center) position.
- Hold the chuck by the collar while turning the sleeve (Figure 3) to open or close the chuck jaws.

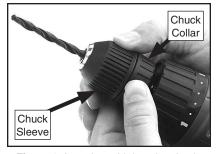


Figure 3. Inserting a bit into the chuck.

- Adjust the jaws to the approximate diameter of the bit or driver and insert the shank into the chuck.
- Turn the sleeve clockwise to tighten the chuck around the bit or driver. Check the tightness periodically while using the tool.

Note: "Power tightening" (holding the sleeve while running the drill) can cause a loose grip on the bit or driver and potential damage to chuck jaws.

To release the bit or driver, hold the chuck collar, and turn the sleeve counterclockwise.

**Note:** The bit may be hot after use. Use gloves when removing.

### **Torque Settings**

The clutch is designed to slip at a preset torque to prevent damage to the tool or the screw, and to prevent driving screws too deep. Use lower torque settings for screwing into soft materials with short screws, and higher settings for harder materials and longer screws. The clutch does not slip when set in the drill position.

### To adjust the torque:

 Rotate the clutch ring shown in Figure 4 to adjust the torque. The clutch will slip easiest in the number 1 setting; the torque increases as the number increases

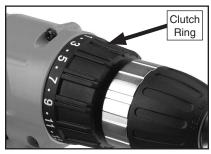


Figure 4. Torque adjustment clutch ring.

**2.** Turn the clutch ring to the drill setting to prevent the clutch from slipping.

**Note:** DO NOT operate the drill with the clutch set between the highest number and the drill setting. The clutch mechanism may be damaged.

# **A**CAUTION

When the clutch is in the drill position, the drill can twist severely, causing a sprained wrist or pinching your hand between the drill and a solid object. Hold the drill with both hands and be aware of the drill position to prevent injury.

### **Driving Screws**

# **AWARNING**

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).

Use the lowest possible torque setting when driving fasteners to prevent damage to the screw, and to prevent driving screws too deep.

#### To drive screws:

- **1.** Install a screwdriver bit that matches the screw head pattern.
- Set the torque to an appropriate setting for the workpiece and set the direction to clockwise (forward).
- Place the screwdriver bit into the screw and the screw firmly against the workpiece, start the drill slowly and gradually increase speed, while applying pressure to drive the screw into the workpiece.

**Note:** You may wish to drill a pilot hole before driving the screw, depending on the workpiece and screw type.

#### To remove screws:

- Set the direction to counterclockwise (reverse) and the clutch to the highest torque setting.
- Place the screwdriver bit into the screw, pull the drill trigger, and push lightly to keep the bit in the screw.

### **Drilling Tips**

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

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 clamp to avoid injury. Do not attempt to hold workpiece by hand.

Avoid overloading the drill: Use sharp drill bits and avoid applying excessive pressure to the drill. 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.

**Avoid overheating the drill bit:** Use sharp bits that are appropriate for the workpiece, lubrication, and an oscillating motion when drilling deep holes to allow chips to clear and the bit to cool off.

**Speed and pressure:** Use slow speed when starting to drill and when drilling in hard material. Only use as much pressure as needed. Too much pressure and speed can cause the bit to overheat. Too little pressure can allow the bit to spin in the hole, dulling the drill bit.

**Drilling metal:** Use a center punch to make a dent at the center of the desired hole. Drill using a carbide bit, slow speed, and firm pressure. Use lubrication to prevent overheating the bit.

### **Drilling**

# **AWARNING**

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).

#### Performing drilling operations:

- 1. Install the correct sized drill bit.
- 2. Set the clutch to drill and set the direction to clockwise (forward).
- Place the drill bit firmly against the workpiece, start the drill slowly and gradually increase speed, while applying pressure to drive the drill into the workpiece.
- When drilling deep holes, occasionally pull the drill bit almost all the way out of the hole to allow chips to clear and the drill bit to cool.

-12- Model H

### **SECTION 3: ACCESSORIES**

G7984—Face Shield

H1298—Dust Sealed Safety Glasses H1300—UV Blocking, Clear Safety Glasses

### H2347—Uvex® Spitfire Safety Glasses H0736—Shop Fox® Safety Glasses

Safety Glasses are essential to every shop. If you already have a pair, buy extras for visitors or employees. You can't be too careful when it comes to shop safety!



Figure 5. Our most popular safety glasses.

# Models G4200-G4207, & H1266-H1271 Hex Power Bits

These hex shaft bits are available in 1" and 2" lengths, so they work directly in the chuck or in quick change bit holders.



Figure 6. Hex power bits.

### G8865—Cobalt Alloy Drill Bits 13-PC. G8866—Cobalt Alloy Drill Bits 21-PC G8867—Cobalt Alloy Drill Bits 29-PC

Cobalt Alloy bits will retain their edge sharpness longer than normal HSS bits, resulting in a significant saving of time and money in the workshop. Includes a heavygauge steel index case for storing. G8865: 1/16" -1/4"; G8866: 1/16"-3/8"; G8867: 1/16"-1/2".



Figure 7. G8865 13-PC Alloy Drill Bits.

#### G2575—Pilot Countersink 5-PC. Set

Screw holes may be drilled flush or counterbored using these quality hex shanked countersinks.



Figure 8. G2575 Pilot Countersink.

## Call 1-300-523-4777 To Order

### **SECTION 4: MAINTENANCE**

### **Drill Maintenance**

The electrical components of this cordless drill are not user serviceable.

Continuous use of a worn or damaged bit will not only decrease working efficiency, but also overload the motor, so the bit must be frequently checked. Replace the bit if it is worn or damaged.

Plastic parts can easily be cleaned with a damp cloth, but never use water to clean any electrical parts. Solvents should also be avoided on plastic because of the possibility of damage.

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

# **AWARNING**

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.

### **Charger and Battery**

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. Refer to the following page or the Grizzly catalog for replacement batteries.

The battery must be recycled or disposed of properly. DO NOT dispose of the battery in a landfill or incinerate. Combustion of some of the battery component materials can cause toxic fumes and possible explosion.

Keep the charger free from dust, dirt and grease. Always store it in a dry place, preferably in the supplied case. DO NOT store in a location that could exceed 104°F (40°C), such as a car or metal building.

The electrical components of this charger are not user serviceable. Replace the charger if it has been dropped, damaged, or received a hard impact.



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.

### **Replacement Chargers and Batteries**



#### Model H7792:

Replacement Battery: H8857 Replacement Charger: H8858

#### Model H7793:

Replacement Battery: H8861 Replacement Charger: H8862

#### Model H7794:

Replacement Battery: H8859 Replacement Charger: H8860

#### Model H7795:

Replacement Battery: H8863 Replacement Charger: H8864

### 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 Authorization 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.

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

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

# WARRANTY CARD

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Mod	del #	Order #		Serial #	
	e following information is given o us develop better products ar				poses to
1.		Friend _	Catalog Other:		
2.	Which of the following mag	azines do you subscr	ribe to?		
	Family Handyman Hand Loader Handy Home Shop Machinist Journal of Light Cont. Live Steam Model Airplane News Modeltec	Projects in Meta RC Modeler	orking owner er I	Wood Wooden Boat	ews West
3.	What is your annual housel \$20,000-\$29,000 \$50,000-\$59,000	nold income? \$30,000-\$3 \$60,000-\$6		\$40,000- \$70,000-	
4.	What is your age group? 20-29 50-59	30-39 60-69		40-49 70+	
5.	How long have you been a0-2 Years	woodworker/metalwo 2-8 Years	orker? 8-20 Yea	ars2	0+ Years
6.	How many of your machine	es or tools are Grizzly 3-5		1	0+
7.	Do you think your machine	represents a good va	alue?Y	'esN	lo
8.	Would you recommend Griz	zzly Industrial to a frie	end?Y	'esN	lo
9.	Would you allow us to use Note: We never use names				
10.	Comments:				

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