



PALM SANDER
MODEL H3120
INSTRUCTION MANUAL



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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 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.


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

- KEEP ALL SAFETY DEVICES IN PLACE** and in working order.
- REMOVE ADJUSTING KEYS AND WRENCHES.** Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning on.
- KEEP WORK AREA CLEAN.** Cluttered areas and benches invite accidents.
- DO NOT USE IN DANGEROUS ENVIRONMENT.** DO NOT use power tools in damp or wet locations, or where any flammable or noxious fumes may exist. Keep work area well lighted.
- KEEP CHILDREN AND VISITORS AWAY.** All children and visitors should be kept at a safe distance from work area.
- MAKE WORK SHOP CHILD PROOF** with padlocks, master switches, or by removing starter keys.
- DO NOT FORCE TOOL.** It will do the job better and safer at the rate for which it was designed.
- USE RIGHT TOOL.** DO NOT 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 tool. 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.
- 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. DO NOT 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.

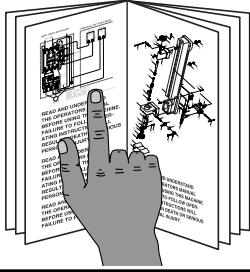
Minimum Gauge for Extension Cords

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

 **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.

INTRODUCTION

CAUTION



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

We are proud to offer the Grizzly Model H3120 Palm Sander. The Model H3120 is 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.

This hook and loop orbital Palm Sander is just the tool for working tight corners and for all-around finish sanding. Includes sander, dust bag, vacuum adapter, 2-pcs. 80 grit sandpaper, 3-pcs. 120 grit sandpaper, 3-pcs. 180 grit sandpaper, 2-pcs. 240 grit sandpaper, steel wool pad, foam pad and 3M scuff pad. Comes in a durable plastic carry case.

We are pleased to provide this manual with the Model H3120. It was written to encourage safety considerations and guide you through general operating procedures and maintenance. It represents our effort to produce the best documentation possible.

The specifications, details, and photographs in this manual represent the Model H3120 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. 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 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>

OPERATION INSTRUCTIONS

Starting Sander

Plug the cord into a 110V outlet. Move the black switch (located at the front of the sander) to the “—” position to turn the sander *ON*, and move the switch to the “O” position to turn the sander *OFF*. The sander should run smoothly. Strange or unnatural noises should be investigated and corrected before operating further.

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

Selecting Abrasive Types

ALUMINUM OXIDE abrasives are an excellent choice because they last longer and are sharper than natural abrasives.

Selecting Grit Sizes

As a general rule, start with a coarse grit size and move through finer grit sizes until you achieve your desired results.

Use the list below to define paper grit sizes:

- Extra Coarse.....12-20
- Very Coarse24-36
- Coarse40-50
- Medium60-100
- Fine.....120-180
- Very Fine220-280
- Extra Fine320-400

Attaching Abrasives

Abrasive sheets can be easily attached with the hook-and-loop system on the pad of your Model H3120 sander. Fit the sheet over the pad so that it covers the entire area, push and slightly twist to make sure the coated abrasive sheet is snug on the pad. *Make sure you don't cover the suction holes.*

Using the Sander

Determine the appropriate grit size for your project and sand the work evenly in the same direction as the grain of the wood. Always keep the sander moving so the finish of your work stays consistent. *If you stay in one place too long, then the sander may produce a depression in the wood that will compromise your finish.*

Sanding across the grain of the wood may be necessary in some cases to remove rough defects. This should be done with caution, however, because it can produce cross-grain scratching that will require further sanding to remove.

Change abrasive sheets as soon as the grit becomes dull. You will recognize this when the sander seems to slide across the work without any “bite.”

Never apply excessive force while sanding. Your sander will last longer if you let “it” do the work. Using a slight pressure barely greater than the weight of the machine is ideal because you can still maintain control while obtaining a fine finish.

MAINTENANCE

General

Regular periodic maintenance on your Model H3120 Palm Sander will ensure its optimum performance. Make a habit of inspecting your sander each time you use it. Check for the following conditions and repair or replace when necessary:

1. Loose fasteners.
2. Worn switch.
3. Worn or damaged cords and plugs.
4. Worn or damaged sanding pad.
5. Any other condition that could hamper the safe operation of this machine.

Keeping Tool Clean

Your Model H3120 Palm Sander will give you years of trouble free service if you keep it clean and free of built-up dust or grime. Ensure that no air passages get blocked. If they do, blow them out with compressed air. **WARNING: Wear safety glasses when cleaning tool with compressed air.**

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.

If possible, use a scraper to remove glue or sap from your work; these elements may hinder the effectiveness of the abrasive sheets and cause unnecessary build-up of grime on the sander.

Repair and Service

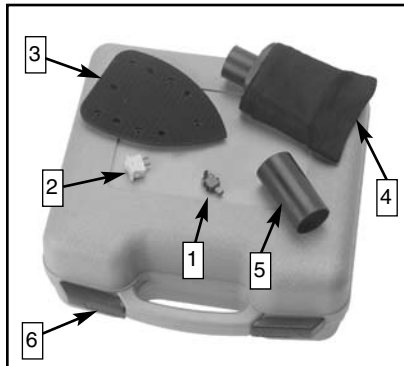
All quality tools will eventually wear from normal use. Since this sander is encased in an insulated plastic cover, leave repair and service issues to a qualified service technician. This includes brush replacement, lubrication or any other internal operation.

! WARNING

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

For replacement parts, find the part you are looking for below and phone (570) 546-9663.

<u>REF</u>	<u>PART#</u>	<u>DESCRIPTION</u>
1	PH312001	MOTOR BRUSH
2	PH312002	SWITCH
3	PH312003	HOOK & LOOP PAD
4	PH312004	DUST BAG
5	PH312005	VACUUM ADAPTER
6	PH312006	CARRYING CASE



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.

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

Name _____

Street _____

City _____ State _____ Zip _____

Phone Number _____ E-Mail _____ FAX _____

MODEL # H3120 Palm Sander 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?

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



Place
Stamp
Here



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

TAPE ALONG EDGES--PLEASE DO NOT STAPLE



