MODEL T33306
7" 3-SPEED ROTARY SANDER/POLISHER
OWNER'S MANUAL
(For models manufactured since 11/22)

Model T33306 shown w/optional battery.

#JM22471 PRINTED IN CHINA V1.01.23

******Keep for Future Reference******

⚠ WARNING!

This manual provides critical safety instructions on the proper setup, operation, maintenance, and service of this machine/tool. Save this document, refer to it often, and use it to instruct other operators.

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

The owner of this machine/tool is solely responsible for its safe use. This responsibility includes but is not limited to proper installation in a safe environment, personnel training and usage authorization, proper inspection and maintenance, manual availability and comprehension, application of safety devices, cutting/sanding/grinding tool integrity, and the usage of personal protective equipment.

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

⚠ WARNING!

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

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

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

SECTION 1: 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 imminent 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

OWNER'S MANUAL. Read and understand this owner's manual BEFORE using machine.

TRAINED OPERATORS ONLY. Untrained operators have a higher risk of being hurt or killed. Only allow trained/supervised people to use this power tool. When tool is not being used, disconnect power, and store in out-of-reach location to prevent unauthorized use—especially around children. Make workshop kid proof!

DANGEROUS ENVIRONMENTS. Do not use tools in areas that are wet, cluttered, or have poor lighting. Operating tools in these areas greatly increases risk of accidents and injury.

MENTAL ALERTNESS REQUIRED. Full mental alertness is required for safe operation of power tools. Never operate under the influence of drugs or alcohol, when tired, or when distracted.

DISCONNECT POWER FIRST. Always disconnect tool from power supply BEFORE making adjustments, changing tooling, or servicing machine. This prevents an injury risk from unintended startup or contact with live electrical components.

EYE PROTECTION. Always wear ANSI-approved safety glasses or a face shield when operating or observing machinery to reduce the risk of eye injury or blindness from flying particles. Everyday eyeglasses are not approved safety glasses.

⚠WARNING

ELECTRICAL SAFETY. Tool plug must match outlet. Double-insulated tools have a polarized plug (one blade is wider than the other), which must be plugged into a polarized outlet. Never modify plug. Do not use adapter for grounded tools. Use a ground fault circuit interrupter if operation is unavoidable in damp locations. Avoid touching grounded surfaces when operating tool.

WEARING PROPER APPAREL. Do not wear clothing, apparel or jewelry that can become entangled in moving parts. Always tie back or cover long hair. Wear non-slip footwear to avoid accidental slips, which could cause loss of workpiece control. Wear hard hat as needed.

HAZARDOUS DUST. Dust created while using tools may cause cancer, birth defects, or long-term respiratory damage. Be aware of dust hazards associated with each workpiece material, always wear a NIOSH-approved respirator, and connect tool to an appropriate dust collection device to reduce your risk.

HEARING PROTECTION. Always wear hearing protection when operating or observing loud machinery. Extended exposure to this noise without hearing protection can cause permanent hearing loss.

REMOVE ADJUSTING TOOLS. Never leave adjustment tools, chuck keys, wrenches, etc. in or on tool—especially near moving parts. Verify removal before starting!

INTENDED USAGE. Only use tool for its intended purpose. Never modify or alter tool for a purpose not intended by the manufacturer or serious injury or death may result!

AWKWARD POSITIONS. Keep proper footing and balance at all times when operating tool. Do not overreach! Avoid awkward hand positions that make tool control difficult or increase the risk of accidental injury.

SAFE HANDLING. Firmly grip tool. To avoid accidental firing, do not keep finger on switch or trigger while carrying.

FORCING TOOLS.. Use right tool for job, and do not force it. It will do job safer and better at rate for which it was designed.

SECURING WORKPIECE. When required, use clamps or vises to secure workpiece. This protects hands and frees both of them to operate tool.

GUARDS & COVERS. Guards and covers reduce accidental contact with moving parts or flying debris. Ensure they are properly installed, undamaged, and working correctly.

CHILDREN & BYSTANDERS. Keep children and bystanders at a safe distance from the work area. Stop using tool if they become a distraction.

USE RECOMMENDED ACCESSORIES. Consult this manual or manufacturer for recommended accessories. Using improper accessories will increase risk of serious injury.

MAINTAIN WITH CARE. Keep cutting tool edges sharp and clean. Follow all maintenance instructions and lubrication schedules to keep tool in good working condition. A tool that is improperly maintained could malfunction, leading to serious personal injury or death. Only have tool serviced by qualified service-personnel using matching replacement parts.

CHECK DAMAGED PARTS. Regularly inspect tool for any condition that may affect safe operation. Immediately repair or replace damaged or mis-adjusted parts before operating tool.

MAINTAIN POWER CORDS. When disconnecting cord-connected tools from power, grab and pull the plug—NOT the cord. Carrying or pulling the cord may damage wires inside. Do not handle cord/plug with wet hands. Avoid cord damage by keeping it away from heated surfaces, high traffic areas, harsh chemicals, sharp edges, moving parts, and wet/damp locations. Damaged cords increase risk of electrocution.

UNATTENDED OPERATION. Never leave tool running while unattended. Turn tool ***OFF*** and ensure all moving parts completely stop before walking away.

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

Additional Safety for Sanders

⚠WARNING

Serious injury can occur from getting clothing, jewelry, or long hair entangled in rotating pad. Flying debris can cause eye injuries or blindness. Rotating pad may pinch or snag and cause tool to strike operator. To reduce the risk of these hazards, operator and bystanders MUST completely heed hazards and warnings below.

AVOIDING ENTANGLEMENT. Do not wear loose clothing, gloves, or jewelry. Tie back long hair. Always allow tool to stop on its own. Do not place hands near, or in contact with, backing pad during operations.

PERSONAL PROTECTIVE EQUIPMENT (PPE). Sanding can create large amounts of dust and can lead to eye injury or respiratory illness. Sanding toxic material, like asbestos or lead-based paint, can deposit material into the air and create a respiratory hazard. Always wear safety glasses and a respirator.

KICKBACK. Sharp corners or edges on workpiece can snag or grab sanding disc, so maintain a firm grip with both hands on tool and position body and arms to resist kickback forces. Always use tool handles for maximum control over kickback. Do not position your body where tool or workpiece will propel in event of kickback.

USE FOR INTENDED PURPOSE. This tool is designed to sand wood, metal, fiberglass, plastic, and composite surfaces. DO NOT use tool to perform grinding, wire brushing, hole cutting, wet sanding, or cut-off operations. Doing so may damage tool or cause personal injury. Only use this sander for dry sanding operations.

DISC CAPACITY. Diameter and speed rating of disc or accessories must be within capacity rating of your tool. Incorrectly-sized discs and accessories should not be used.

SANDING DISCS. Inspect discs and backing pad before use. DO NOT use discs that show signs of excessive wear or damage. Used discs can become dislodged and may cause damage to tool or work surface. Make sure pad is properly installed before use. Never use modified discs for operations.

STARTING TOOL. Never start tool while pad is contacting workpiece. Before using tool, allow it to reach full speed to see if there is any vibration or wobbling. This could indicate poor installation of pad. Disconnect battery, re-install pad before resuming operations. Always move power switch to OFF position before attaching battery.

WORKPIECE INSPECTION. Nails, staples, knots, or other imperfections in workpiece can be dislodged and thrown by sander at high rate of speed into operator or bystanders, or cause damage to tool, sanding disc, or pad. Never try to sand stock that has embedded foreign objects or questionable imperfections. Make sure workpiece is properly supported.

OPERATION. Make sure tool comes to a complete stop before setting tool down. DO NOT touch workpiece or any accessories after operation, as surfaces may be extremely hot and can cause burns. Never place hand near rotating accessory. DO NOT operate tool for extended periods of time. Vibration from tool can cause permanent damage to fingers, hands, and arms. DO NOT use tool near flammable materials. DO NOT use accessories that require liquid coolants.

MAINTENANCE. Dust and grit often accumulate on tool and can create an electric shock hazard. Wipe tool with a clean rag after use and make sure motor vents are clear.

LEAD-BASED PAINT. Sanding of lead-based paint is not recommended. Lead paint can be difficult to identify. Use extra precautions sanding paint. Use PPE, do not eat or drink in the area, and keep pregnant women and children out of the area. In addition, all sanded areas should be vacuumed and cleaned at the end of operations. Sanding discs and other items used should be disposed of properly.

Additional Safety for Batteries & Chargers

⚠WARNING

Battery and charger components may cause irritation, burns, electric shock or fire if disassembled, damaged, stored incorrectly, or disposed of incorrectly. Connecting charger to circuit it is not rated for could result in fire or explosion. To reduce the risk of these hazards, operator and bystanders MUST completely heed hazards and warnings below.

READ ENTIRE MANUAL. Read and understand all of the instructions and warnings before charging battery.

CHARGING EQUIPMENT. Only charge battery using charger and battery supplied with tool. DO NOT use batteries or chargers from other cordless tools.

CHARGING ENVIRONMENT. Charge battery on dry, hard surface in shaded location with good ventilation. DO NOT place charger on or near flammable materials. DO NOT cover charger when charging. DO NOT expose charger to moisture. Only charge battery when temperature is between 50°F (10°C)–104°F (40°C). Charging in temperatures beyond these extremes will damage battery.

DO NOT DISASSEMBLE BATTERY OR CHARGER. Tampering with battery or charger may result in risk of electric shock or fire.

CHARGER DAMAGE. Replace charger if it has been dropped, damaged, exposed to liquid, or has received hard impact.

DISCONNECT CHARGER. Unplug charger when cleaning, or when not in use.

SHORTING BATTERY. Avoid touching terminals with skin or metal, to prevent injury from an electrical shock and to prevent fire from spark. Do not store battery with metal objects that could create connection between terminals or in place where it could get wet.

CHARGER VOLTAGE. DO NOT plug into circuit that charger is not rated for. Connecting charger to circuit with incorrect voltage will damage charger, possibly causing fire or explosion. DO NOT charge from DC power supply or generator or with extension cord.

DAMAGED BATTERY. Regularly inspect battery for any damage, corrosion, or any condition that may affect safe operation. Immediately replace damaged battery before operating tool.

BATTERY DISPOSAL. Battery must be recycled or disposed of properly. DO NOT dispose of battery in landfill or incinerate. Combustion of some of battery's components can cause toxic fumes and possible explosion.

BATTERY LIQUID. Liquid contained in batteries can cause irritation or burns. If liquid contacts eyes or skin, flush with water and seek medical assistance.

⚠CAUTION

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

SECTION 2: INTRODUCTION

Foreword

We are proud to offer this manual with your new sander! We've made every effort to be exact with the instructions, specifications, drawings, and photographs of the sander we used when writing this manual. However, sometimes we still make an occasional mistake.

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

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

Contact Info

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

Grizzly Technical Support
1815 W. Battlefield
Springfield, MO 65807
Phone: (570) 546-9663
E-Mail: techsupport@grizzly.com

We want your feedback on this manual. If you can take the time, please email or write to us at the address below and tell us how we did:

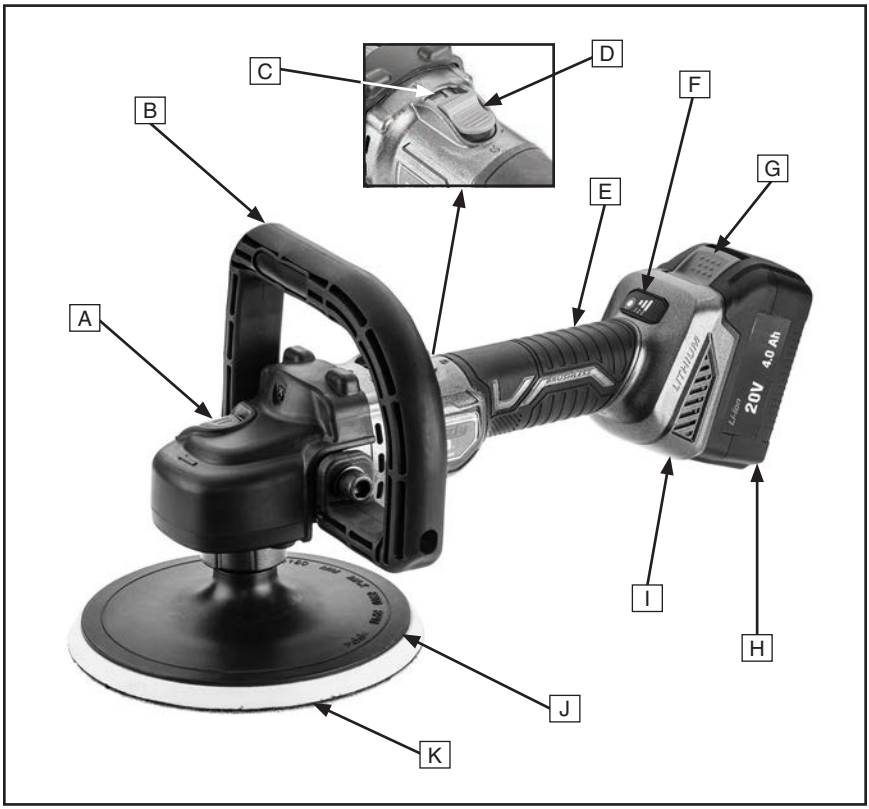
Grizzly Industrial, Inc.
C/O Technical Documentation Manager
P.O. Box 2069
Bellingham, WA 98227-2069
Email: manuals@grizzly.com

Specifications

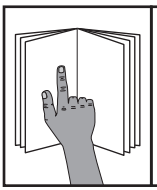
Charging Source	120V
Battery Type	20V Lithium-Ion
Disc/Pad	7 in. (180mm)
Speed	600/1550/2500 RPM
Arbor Size	5/8"-11
Weight	4.7 lbs.
Length x Width x Height	15 x 7 x 5-1/2 in.

Identification

Become familiar with the names and locations of the controls and features shown below to better understand the instructions in this manual.

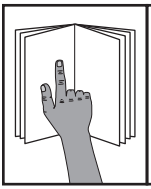


A. Spindle Lock Button
B. D-Handle
C. Locking Tray
D. Start/Stop Switch
E. Handle
F. Speed Selector Button
G. Battery Lock
H. 20V Li-Ion Battery (not included)
I. Battery Housing
J. Backing Pad
K. Sanding Disc



⚠WARNING
To reduce your risk of serious injury, read this entire manual BEFORE using Tool.

Controls & Components



⚠WARNING

To reduce your risk of serious injury, read this entire manual BEFORE using tool.

Refer to **Figures 1–3** and the following descriptions to become familiar with the basic controls of this tool.

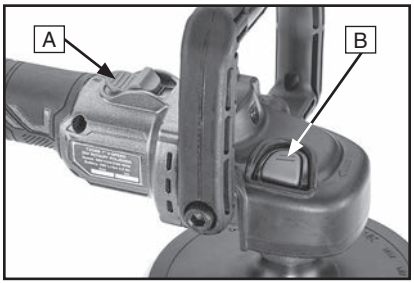


Figure 1. Power controls and spindle lock button.

A. Start/Stop Switch: Starts and stops tool.

— To start tool, press bottom of switch and push switch forward. To stop tool, slide switch backward.

— For continuous operation, press bottom of switch, push switch forward, and lower front of switch into locking tray. To stop tool, press bottom of switch.

B. Spindle Lock Button: Press and rotate backing pad by hand until spindle locks in place.

Figure 2. Speed selector button.

C. Speed Selector Button: Press to select one of three speeds. Indicator light illuminates selection.

Speed Setting	RPM
1	600
2	1550
3	2500

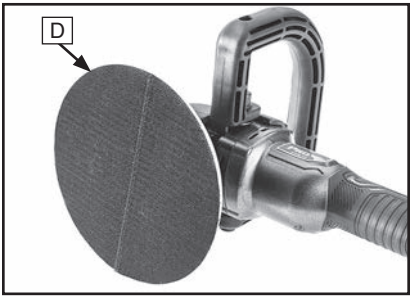


Figure 3. Hook & loop backing pad.

D. Backing Pad: Secures disc to tool with hook & loop mounting pad.

SECTION 3: SETUP

Unpacking

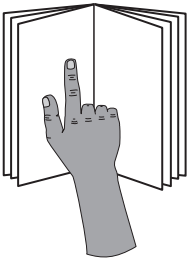
This tool was carefully packaged for safe transport. When unpacking, separate all enclosed items from packaging materials and inspect them for shipping damage. ***If items are damaged, please call us immediately at (570) 546-9663.***

IMPORTANT: Save all packaging materials until you are completely satisfied with the tool and have resolved any issues between Grizzly or the shipping agent. *You MUST have the original packaging to file a freight claim. It is also extremely helpful if you need to return the tool later.*

⚠CAUTION

Like all tools there is potential danger when operating this tool. Accidents are frequently caused by lack of familiarity or failure to pay attention. Use this tool with respect and caution to decrease the risk of operator injury. If normal safety precautions are overlooked or ignored, serious personal injury may occur.

⚠WARNING



This tool presents serious injury hazards to untrained users. Read through entire manual to become familiar with controls and operations before starting tool!

Needed for Setup

The following are needed to complete the setup process:

Description	Qty
• Safety Glasses (per person)	1 Pr.

Inventory

The following is a list of items shipped with your tool. Before beginning setup, lay these items out and inventory them.

If any non-proprietary parts are missing (e.g. a nut or a washer), we will gladly replace them; or for the sake of expediency, replacements can be obtained at your local hardware store.

Box (Figure 4)	Qty
A. 7" 3-Speed Rotary Sander/Polisher	1
B. D-Handle	1
C. Hex Wrench 8mm	1
D. Flat Washers 8mm	2
E. Cap Screws M8-1.25 x 25	2
F. Sanding Disc 40-Grit	1
G. Sanding Disc 60-Grit	1
H. Microfiber Pad	1
I. Sanding Disc 120-Grit	1
J. Wool Bonnet	1

Figure 4. Model T33306 inventory.

NOTICE

If you cannot find an item on this list, carefully check around/inside the tool and packaging materials. Often, these items get lost in packaging materials while unpacking or they are pre-installed at the factory.

Charging/Installing Battery

The Model T33306 is compatible with Grizzly PRO 20V Lithium-Ion batteries and chargers (see **Accessories** on **Page 20**).

Removing/Charging Battery

1. Press battery lock (see **Figure 5**) and remove battery from sander.

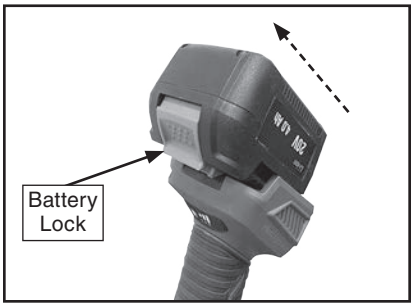


Figure 5. Location of battery lock.

2. Plug charger into 120V outlet.

3. Slide battery into charger until battery clicks in place (see **Figure 6**). Red light will illuminate while battery is charging. When green light illuminates, battery is fully charged.

   Note: *Fully charge battery before first use.*

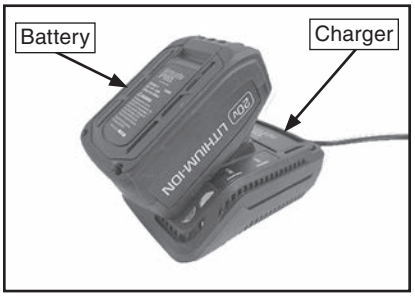


Figure 6. Battery charging in Model T30302 Fast Charger (not included).

Installing Battery in Router

1. Press battery lock (see **Figure 7**) and remove battery from charger.

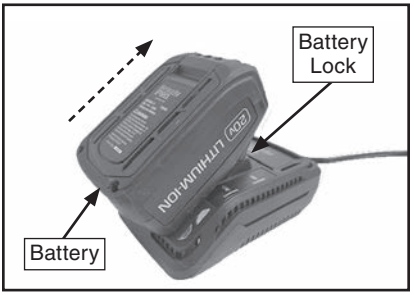


Figure 7. Removal of battery.

2. Insert battery by aligning sander base with groove in battery and pushing in direction of arrow until battery pack is secured in tool (see **Figure 8**).

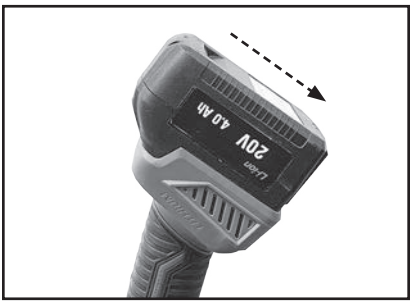


Figure 8. Battery installed in sander.

Assembly

Assembling the Model T33306 consists of installing the D-handle on the sander body. The D-handle is reversible and can be installed on either side of the tool.

To assemble tool:

1. Attach D-handle to tool with (2) M8-1.25 x 25 cap screws and (2) 8mm flat washers (see **Figure 9**).

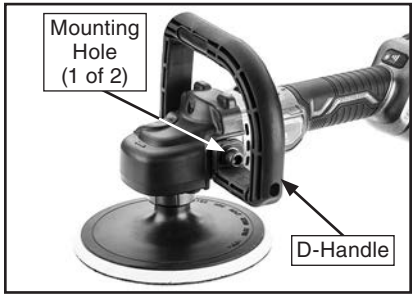


Figure 9. D-handle installed on T33306.

Test Run

Once assembly is complete, test run the tool to ensure it is properly connected to power and safety components are working properly.

If you find an unusual problem during the test run, immediately stop the tool, disconnect it from power, and fix the problem BEFORE operating the tool again. The **Troubleshooting** table in the **SERVICE** section of this manual can help.

The test run consists of verifying the following: 1) The motor powers up and runs correctly, and 2) Start/Stop switch safety feature functions correctly.

⚠WARNING

DO NOT start tool until all preceding setup instructions have been performed. Operating an improperly set up tool may result in malfunction or unexpected results that can lead to serious injury, death, or tool/property damage.

⚠WARNING

Serious injury or death can result from using tool BEFORE understanding its controls and related safety information. DO NOT operate, or allow others to operate, tool until information is understood.

⚠WARNING

DO NOT start tool unless you have both hands on tool. Torque from motor can cause tool to twist. This can lead to serious injury and tool/property damage.

⚠CAUTION

Before installing battery cartridge into tool, always check to see that Start/Stop switch actuates properly and returns to STOP position when released.

To test run tool:

1. Clear all setup tools away from tool.

2. Install battery in tool (see **Charging/Installing Battery** on **Page 10**).

3. Pick up tool with one hand on handle and other hand on D-handle (see **Figure 10**), keeping tool away from any surfaces or objects.

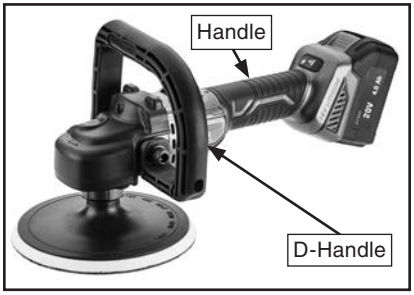


Figure 10. Sander handle locations.

4. Press bottom of Start/Stop switch, push switch forward, and lower front of switch into locking tray (see **Page 6**). Tool should run without unusual problems or noises.

5. Press speed selector button to cycle through RPM settings. Tool should continue to run without unusual problems or noises.

6. Press and release bottom of Start/Stop switch. Switch should automatically return to Stop position, and tool will stop.

   — If tool *does* stop, Start/Stop switch is working correctly.

   — If tool *does not* stop, immediately disconnect battery. Contact Technical Support before using tool.

7. Try to start motor by pushing Start/Stop switch forward without applying pressure on bottom of switch.

   — If tool *does not* start, safety feature of switch lockout is working correctly. Congratulations! Test run is complete.

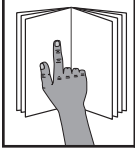
   — If tool *does* start, immediately disconnect battery. Contact Technical Support before using tool.

SECTION 4: OPERATIONS

Operation Overview

The purpose of this overview is to provide the novice machine operator with a basic understanding of how the tool is used during operation, so the tool controls/components discussed later in this manual are easier to understand.

Due to the generic nature of this overview, it is not intended to be an instructional guide. To learn more about specific operations, read this entire manual, seek additional training from experienced machine operators, and do additional research outside of this manual by reading "how-to" books, trade magazines, or websites.



⚠WARNING

To reduce your risk of serious injury, read this entire manual BEFORE using tool.

⚠WARNING

Eye injuries and respiratory problems can occur while operating this tool. Wear personal protective equipment to reduce your risk from these hazards.

NOTICE

If you are not experienced with this type of tool, WE STRONGLY RECOMMEND that you seek additional training outside of this manual. Read books/magazines or get formal training before beginning any projects. Regardless of the content in this section, Grizzly Industrial will not be held liable for accidents caused by lack of training.

To complete a typical operation, the operator does the following:

1. Examines workpiece to make sure it is suitable for sanding.
2. Secures workpiece.
3. Installs correct sanding disc for operation.
4. Puts on safety glasses and respirator.
5. Holds tool with one hand on handle and other hand on D-handle.
6. Starts tool at lowest speed, waits for tool to reach full speed.
7. Places sanding pad on workpiece, then begins sanding with even, steady motion.

   Note: *Always do a test run on a small area of workpiece to make sure desired result is achieved.*

8. Removes tool from workpiece, stops tool, then allows tool to come to complete stop before setting tool down.

Workpiece Inspection

Some workpieces are not safe to sand or may require modification before they are safe to sand. **Before sanding, inspect all workpieces for the following:**

- ***Material Type:*** This tool is intended for sanding painted or unpainted metal, fiberglass, wood, and composite surfaces.

- ***Foreign Objects:*** Fasteners, rivets, clips, and other foreign objects are often found in and around metal, fiberglass, wood, and composite surfaces. While sanding, these objects can become dislodged and hit the operator, cause kickback, or cause disc to fly apart, which could injure operator, injure bystanders, or damage workpiece surface. Always visually inspect your workpiece for these items. If they cannot be removed, DO NOT sand.

Attaching/Removing Sanding Discs

The Model T33306 is supplied with sanding discs for use with the hook & loop backing pad.

To attach/remove sanding disc:

1. DISCONNECT BATTERY FROM TOOL!

2. Place tool on tool rest with backing pad upright (see **Figure 11**).

   Note: *If D-handle is installed, disc can be installed with tool on its side.*

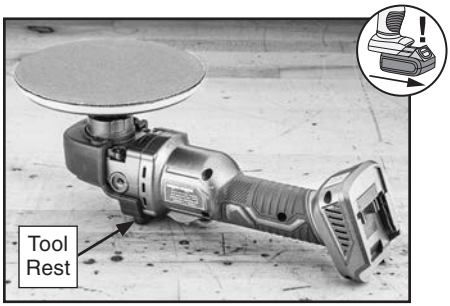


Figure 11. Tool placed on tool rest.

NOTICE

Only use 7" sanding discs that are compatible with hook & loop fasteners.

3. Press disc onto hook & loop surface, making sure edges align to avoid damaging workpiece surface and backing pad (see **Figure 12**).

   Note: *Make sure hook & loop surface is free from dirt and other material before attaching sanding disc.*

4. To remove disc, peel away disc from edge (see **Figure 12**).

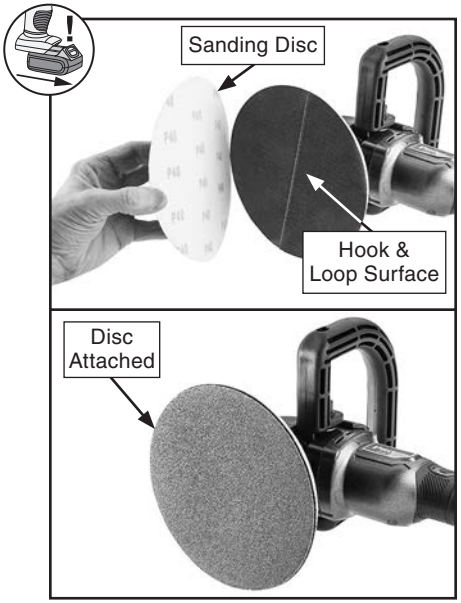


Figure 12. Attaching disc.

Sanding Operations

The Model T33306 is a rotary sander/polisher. When viewed from above, the backing pad spins clockwise on a spindle. This sander is suitable for moderate to heavy material and defect removal, and is typically used with multiple grits of sandpaper discs.

Always test a small section of the surface to judge the strength or sanding action of a disc. Choosing a sanding disc depends upon the amount of material that needs to be removed, and the finish desired. There are multiple grits from coarse to ultra-fine to choose from. For best possible finish results, work your way up from a coarse grit to fine grit disc.

Make sure the area to be sanded is dry and free of hazards. Wet surfaces can affect the of life of the disc, and hazards can damage the tool and lead to personal injury. Vacuum or wipe workpiece surface between grit changes to remove any dust and unnecessary abrasives.

On flat surfaces, use long overlapping strokes. Use a circular motion on curved or angled sections.

Always hold the tool firmly with one hand on the main handle and the other hand on the D-handle.

⚠WARNING

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

⚠WARNING

Loose hair and clothing could get caught in tool and cause serious personal injury. Keep loose clothing and long hair away from moving parts.

To perform a sanding operation:

1. Attach disc to backing pad (see **Attaching/Removing Sanding Discs** on **Page 14**).

2. Start tool and let motor reach full speed.

3. Place disc on surface, press Speed Selector button to increase sander speed, if desired, then lightly move sander around workpiece in long, sweeping strokes (see **Figure 13**).

Note: *Too much pressure, improper motion, or leaving the tool running in place too long can cause swirl marks or lead to rapid removal of material.*

Tip: *Lift tool from surface often to check workpiece and allow sawdust to clear.*

Figure 13. Sanding surface.

4. When done, remove tool from workpiece, turn tool ***OFF***, and wait for pad to stop spinning before setting tool down.

5. Vacuum, brush, or wipe excess sawdust off of workpiece surface with a clean cloth.

6. Examine sanded surface.

— If results are satisfactory, repeat **Steps 2–5** over larger area.

— If results are unsatisfactory, repeat **Steps 1–5** and use either a less or more abrasive sanding disc.

Installing/Removing Wool Bonnet

The Model T33306 is supplied with a wool bonnet for polishing operations.

To install/remove wool bonnet:

1. DISCONNECT BATTERY FROM TOOL!

2. Place tool on tool rest with backing pad upright (see **Figure 14**).

   Note: *If D-handle is installed, bonnet can be installed with tool on its side.*

3. Cover backing pad with bonnet (see **Figure 14**).

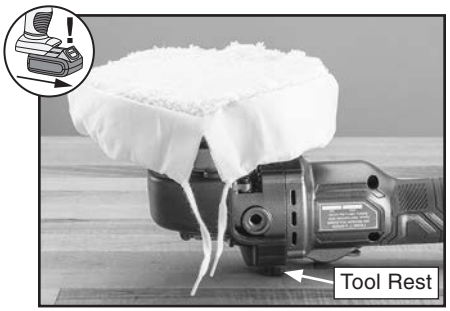


Figure 14. Tool placed on tool rest and bonnet placed loosely on backing pad.

4. Securely tighten and tie bonnet laces, and tuck laces into bonnet. (see **Figure 15**).

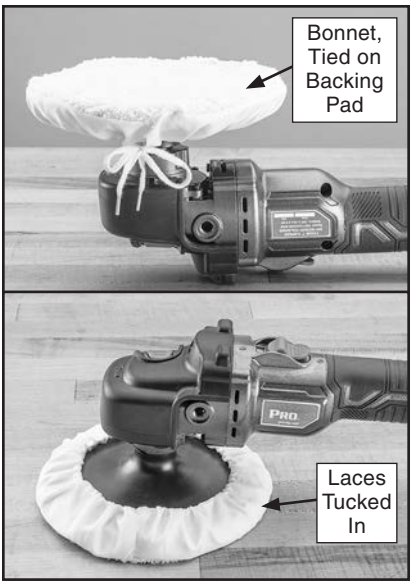


Figure 15. Bonnet with laces tied and tucked in.

5. Test that bonnet is securely fitted by installing battery, then lifting and starting tool. If bonnet appears loose or becomes detached, stop tool and re-install bonnet.

6. To remove bonnet, disconnect battery from tool, then untuck and untie laces and remove bonnet.

Polishing Operations

The Model T33306 can be used to achieve a high gloss shine on finished wood surfaces.

Allow your finish to cure thoroughly. The general rule is that the longer the finish is allowed to cure, the better the final result will be.

Always follow manufacturer's instructions on how to use their wax or polish product.

Before using the sander for polishing operations, use a fine grit of sandpaper or steel wool to lightly roughen the surface. This will remove any bumps or dust on the workpiece surface.

Apply mineral spirits and wipe the workpiece dry. This will remove the debris created by the light sanding.

To polish a wood workpiece:

1. Attach pad or bonnet to backing pad (see **Installing/Removing Wool Bonnet** on **Page 17**).

2. Apply polish evenly on wood surface (see **Figure 16**).

Figure 16. Polish applied to surface.

3. With hands firmly gripping tool, start tool at lowest speed.

   Note: *Always use handles for proper control.*

4. Place tool lightly against surface of wood (see **Figure 17**). Move tool slowly and evenly, from side to side, slightly overlapping on each pass. Continue until most of polish has disappeared.

   Note: *Too much pressure, improper motion, or stopping sander in one location can cause swirl marks.*

Figure 17. Example of polishing a wooden surface.

5. Wipe off any dust with a clean cloth.

6. Remove existing pad or bonnet, then attach a clean finishing pad to backing pad.

7. Apply final polish compound (example: wax) to wood surface.

8. Repeat **Steps 3–4** until desired result is achieved.

Removing/Installing Backing Pad

The backing pad can become damaged or worn through general use, but it can be easily removed and replaced. Only replace backing pad with 7" diameter, hook & loop pad.

To remove/install backing pad:

1. DISCONNECT BATTERY FROM TOOL!

2. Press spindle lock button while turning backing pad clockwise (see **Figure 18**). Backing pad will spin free of spindle.

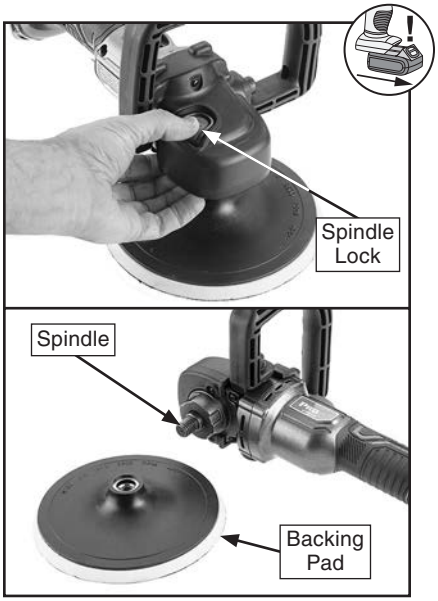


Figure 18. Removing backing pad.

3. Press spindle lock button, place backing pad on spindle, and turn pad counterclockwise.

   IMPORTANT: Do not overtighten backing pad, or damage to backing pad or spindle can result.

⚠CAUTION

Make sure backing pad is secured properly. Loose attachment will cause tool to run out of balance and create excessive vibration, which may cause loss of control.

SECTION 5: ACCESSORIES

⚠WARNING

Installing unapproved accessories may cause tool to malfunction, resulting in serious personal injury or tool damage. To reduce this risk, only install accessories recommended for this tool by Grizzly.

NOTICE

Refer to our website or latest catalog for additional recommended accessories.

T30304—2.0Ah Lithium-Ion Battery
T30305—4.0Ah Lithium-Ion Battery
These 20V rechargeable batteries can be used with any 20V Grizzly PRO cordless power tool. Built by Samsung®, these batteries are low profile and lightweight.

Figure 19. Grizzly PRO 20V Lithium-Ion batteries.

T30302—2.4A Fast Charger
T30303—2.4A Dual Port Charger
These chargers are compatible with the Model T30304 and T30305 batteries used with 20V Grizzly PRO cordless power tools.

Figure 20. Battery chargers.

Basic Eye Protection

T32323—Woodturners Face Shield
T32401—EDGE Brazeau Safety Glasses
T32402—EDGE Khor G2 Safety Glasses
T32404—EDGE Mazeno Safety Glasses

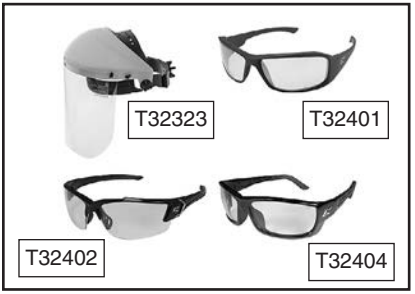


Figure 21. Assortment of basic eye protection.

SECTION 6: MAINTENANCE

⚠WARNING

Always DISCONNECT BATTERY from tool before servicing, adjusting, or doing maintenance to reduce the risk of injury due to tool starting accidentally.

Schedule

For optimum performance from this tool, this maintenance schedule must be strictly followed.

Ongoing

To minimize your risk of injury and maintain proper tool operation, shut down the tool immediately if you ever observe any of the items below, and fix the problem before continuing operations:

- Loose bolts.
- Damaged or worn out discs.
- Damaged backing pad.
- Worn or damaged wires.
- Dirty tool.
- Any other unsafe condition.

Cleaning & Protecting

Cleaning the Model T33306 is relatively easy. Vacuum excess dust, and wipe off the remaining dust with a dry cloth. If any sawdust or paint has built up, use a resin or paint dissolving cleaner to remove it.

Inspect the sander for loose parts, damaged battery, battery housing, backing pad, or switch, and inspect the sanding discs for rips and tears. Replace sanding discs if they are worn or damaged. Continuous use of a worn or damaged sanding disc will not only decrease working efficiency, but also overload the motor, so the sanding discs must be frequently checked and replaced.

⚠WARNING

Blocked motor vents can cause tool to overheat and increase risk of electric shock. To reduce this risk, keep motor vents clear of dust and foreign material.

SECTION 7: SERVICE

Review the troubleshooting and procedures in this section if a problem develops with your tool. If you need replacement parts or additional help with a procedure, call our Technical Support.

Troubleshooting

Motor & Electrical

Symptom	Possible Cause	Solution
Tool does not start.	1. Battery charge low.	1. Charge battery (**Page 10**); verify charger is working using volt meter if battery does not charge.
	2. Wiring broken, disconnected, or corroded.	2. Fix broken wires or disconnected/corroded connections.
	3. Start/Stop switch at fault.	3. Replace Start/Stop switch.
	4. Circuit board at fault.	4. Inspect/replace if at fault.
	5. Motor or motor bearings at fault.	5. Replace motor.
Tool stalls or is underpowered.	1. Battery charge low.	1. Charge battery (**Page 10**); verify charger is working using volt meter if battery does not charge.
	2. Circuit board at fault.	2. Inspect/replace if at fault.
	3. Excessive sanding pressure.	3. Reduce sanding pressure (**Page 16**).
	4. Tool undersized for task.	4. Reduce sanding pressure (**Page 16**).
	5. Motor overheated.	5. Clean motor, let cool, and reduce workload. Do not clean motor with compressed air.
	6. Motor or motor bearings at fault.	6. Replace motor.
Tool has vibration or noisy operation.	1. Motor or components loose.	1. Inspect/tighten all bolts/knobs.
	2. Workpiece loose.	2. Secure workpiece.
	3. Backing pad loose or damaged.	3. Tighten loose pad, replace damaged pad (**Page 19**).
	4. Spindle loose or damaged.	4. Tighten spindle, replace damaged spindle.
	5. Motor bearings at fault.	5. Remove backing pad (**Page 19**) and rotate backing pad mounting nut; rotational grinding/loose shaft requires bearing replacement.

Sanding Operations

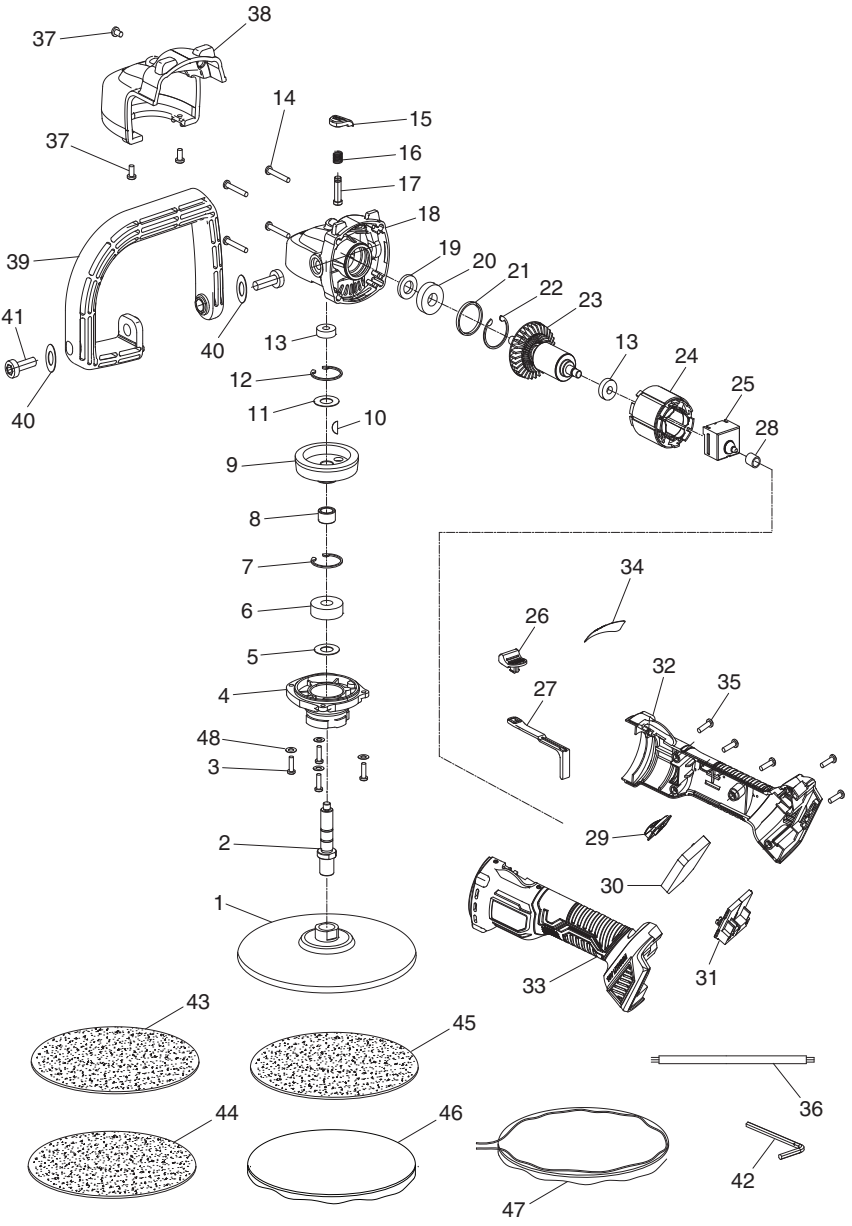
Symptom	Possible Cause	Solution
Machine slows or stops when operating.	1. Sanding pressure too aggressive. 2. Speed setting too low.	1. Reduce sanding pressure (**Page 16**). 2. Increase speed (**Page 7**).
Deep sanding grooves or scars in workpiece.	1. Sanding disc too coarse for desired finish. 2. Sanding pressure too aggressive. 3. Sanding disc held still against workpiece.	1. Use a finer grit sanding disc (**Page 15**). 2. Reduce sanding pressure (**Page 16**). 3. Move sanding disc back and forth across workpiece surface (**Page 16**).
Glazed sanding surface.	1. Sanding wet stock. 2. Sanding stock with high amount of residue.	1. Only sand dry stock. 2. Use different stock, or accept characteristics of stock and plan to clean/replace sanding disc frequently.
Abrasive rubs off sanding disc easily.	1. Sanding disc has been stored in an incorrect environment. 2. Sanding disc has been folded or crushed.	1. Replace; store sanding disc away from extremely dry, hot, or damp conditions. 2. Store sanding disc flat; do not bend or fold.

Polishing Operations

Symptom	Possible Cause	Solution
Machine slows or stops when operating.	1. Operator using too much pressure. 2. Speed setting too low.	1. Use less pressure when polishing (**Page 18**). 2. Increase speed (**Page 7**).
Poor results from polishing compound.	1. Wrong polishing compound for material. 2. Using too much or too little polishing compound.	1. Use correct polishing compound (**Page 18**). 2. Some trial-and-error is necessary with each product. Too much or too little product creates too much or too little lubricity, compromising effectiveness (**Page 18**).
Poor results from polishing operation.	1. Work surface contains residue or contaminants. 2. Contaminated or overused wool bonnet. 3. Incorrect polishing technique. 4. Moving polisher too fast over surface. 5. Using too low of a speed setting. 6. Using too little or too much downward pressure. 7. Wool bonnet not flat against surface being polished.	1. Dirt, oil, rust, paint, or other film must be removed chemically or with water. Dry surface before polishing. 2. Replace wool bonnet (**Page 17**). 3. Make sure to overlap strokes by 50%. Use light pressure (**Page 18**). 4. Move polisher slowly over surface, especially when removing paint defects like oxidation, scratches, swirls, etc. (**Page 18**). 5. Use higher speed setting, especially when removing paint defects scratches, swirls, etc (**Page 18**). 6. Apply enough pressure that polishing compound can be effective, but not so much pressure that backing pad stops spinning. Some trial-and-error necessary (**Page 18**). 7. Keep wool bonnet flat against surface being polished. Applying too much pressure to one edge can stop rotation and decrease effectiveness (**Page 18**).

SECTION 8: PARTS

Main



Main Parts List

REF	PART #	DESCRIPTION
1	PT33306001	BACKING PAD 7"
2	PT33306002	ARBOR 5/8-11 X 7
3	PT33306003	PHLP HD SCR M4-.7 X 14
4	PT33306004	GEARBOX COVER
5	PT33306005	FLAT WASHER 18MM
6	PT33306006	BALL BEARING 6201-2RS
7	PT33306007	INT RETAINING RING 32MM
8	PT33306008	SPACER 10ID X 12OD X 5L
9	PT33306009	TRANSFER GEAR 53T
10	PT33306010	WOODRUFF KEY 4 X 6.5 X 14.5
11	PT33306011	WAVY WASHER 7MM
12	PT33306012	INT RETAINING RING 12MM
13	PT33306013	BALL BEARING 607-2RS
14	PT33306014	TAP SCREW M4 X 28
15	PT33306015	LOCK BUTTON
16	PT33306016	COMPRESSION SPRING 0.6 X 9.0 X 12
17	PT33306017	THREADED PIN 8 X 20MM
18	PT33306018	GEARBOX
19	PT33306019	FLAT WASHER 12 X 23 X 2MM
20	PT33306020	BALL BEARING 6001-2RS
21	PT33306021	SEAL 22 X 24 X 7MM
22	PT33306022	INT RETAINING RING 22MM
23	PT33306023	ARMATURE
24	PT33306024	STATOR

REF	PART #	DESCRIPTION
25	PT33306025	START/STOP SWITCH DKLD JT02-3
26	PT33306026	ON/OFF SWITCH
27	PT33306027	SWITCH LEVER
28	PT33306028	SPACER 4ID X 50D X 7L
29	PT33306029	3-SPEED CONTROL SWITCH
30	PT33306030	CONTROLLER
31	PT33306031	BATTERY TERMINAL BLOCK
32	PT33306032	MOTOR HOUSING (RIGHT)
33	PT33306033	MOTOR HOUSING (LEFT)
34	PT33306034	SPEED LABEL
35	PT33306035	TAP SCREW M4 X 18
36	PT33306036	MOTOR WIRE 22G 6"
37	PT33306037	PHLP HD SCR M4-.7 X 10
38	PT33306038	RUBBER GRIP COVER
39	PT33306039	D-HANDLE
40	PT33306040	FLAT WASHER 10.5 X 18 X 1.6MM
41	PT33306041	CAP SCREW M10-1.5 X 25
42	PT33306042	HEX WRENCH 8MM
43	PT33306043	SANDING DISC 7" 60-GRIT
44	PT33306044	SANDING DISC 7" 40-GRIT
45	PT33306045	SANDING DISC 7" 120-GRIT
46	PT33306046	MICROFIBER PAD 7"
47	PT33306047	WOOL BONNET 7"
48	PT33306048	FLAT WASHER 4MM

Parts breakdown provided for reference only. Not all parts shown are available for purchase.

Labels & Cosmetics

REF	PART #	DESCRIPTION
101	PT33306101	MACHINE ID LABEL
102	PT33306102	QR CODE LABEL

REF	PART #	DESCRIPTION
103	PT33306103	GRIZZLY PRO LABEL

⚠WARNING

Safety labels help reduce the risk of serious injury caused by machine hazards. If any label comes off or becomes unreadable, the owner of this tool MUST replace it in the original location before resuming operations. For replacements, contact (800) 523-4777 or www.grizzly.com.

WARRANTY & 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.

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.

In the event you need to use 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.

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.

To take advantage of this warranty, you must register it at **https://www.grizzly.com/forms/warranty**, or you can scan the QR code below to be automatically directed to our warranty registration page. Enter all applicable information for the product.

WARRANTY

grizzly.com