

Warrior 58089

Warrior 4.3 Amp, 4-1/2 in. Angle Grinder User Manual

BRAND: WARRIOR

Model: 58089



1. INTRODUCTION

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your Warrior 4.3 Amp, 4-1/2 inch Angle Grinder, Model 58089. Please read this manual thoroughly before using the tool to ensure proper handling and to prevent injury or damage.

The Warrior Angle Grinder is a robust power tool designed for various grinding, cutting, and polishing tasks. It features a powerful 4.3 amp motor capable of delivering up to 12,000 RPM for efficient material removal. Its durable construction, including an all ball-bearing motor and a rugged cast aluminum gear case, ensures smooth operation and extended tool life. The design incorporates a spindle lock for easy accessory changes and a two-position auxiliary handle for enhanced control and comfort. Carbon brushes are designed for easy replacement, contributing to the tool's longevity.



The image displays the Warrior 4.3 Amp Slide Switch Angle Grinder, Model 58089, within its orange and white retail box. The box prominently features the 'WARRIOR' logo, '4.3 AMP', 'SLIDE SWITCH', and 'ANGLE GRINDER' text. Key performance indicators such as '> 12,000 RPM' and '> FAST STOCK REMOVAL' are also visible. A note indicates 'GRINDING WHEEL SOLD SEPARATELY'. The grinder itself, black and grey, is visible through the packaging.

Key Features:

- Powerful 4.3 amp motor for demanding applications.
- High speed of up to 12,000 RPM for fast stock removal.
- Adjustable 4-1/2 inch Type 27 guard for debris deflection and safety.
- Durable construction with a cast aluminum gear case and robust plastic body.
- Includes a 4-1/2 inch Type 27 guard, side handle, arbor nut, and wrench for immediate use.

2. GENERAL SAFETY INFORMATION

Always follow basic safety precautions when using electrical tools to reduce the risk of fire, electric shock, and personal injury. Keep this manual for future reference.

Work Area Safety:

- Keep the work area clean and well-lit. Cluttered or dark areas invite accidents.
- Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust. Power tools create sparks which may ignite the dust or fumes.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

Electrical Safety:

- Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with grounded power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is grounded.
- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.

Personal Safety:

- Always wear eye protection (safety glasses or goggles) and hearing protection.
- Use appropriate respiratory protection if working in dusty conditions.
- Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts.
- Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.

3. SPECIFIC ANGLE GRINDER SAFETY WARNINGS

- This power tool is intended to function as a grinder or cut-off tool. Read all safety warnings, instructions, illustrations and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.
- Operations such as sanding, wire brushing, or polishing are not recommended to be performed with this power tool. Operations for which the power tool was not designed may create a hazard and cause personal injury.
- Do not use accessories which are not specifically designed and recommended by the tool manufacturer. Just because the accessory can be attached to your power tool, it does not assure safe operation.

- The rated speed of the accessory must be at least equal to the maximum speed marked on the power tool. Accessories running faster than their rated speed can break and fly apart.
- The outside diameter and the thickness of your accessory must be within the capacity rating of your power tool. Incorrectly sized accessories cannot be adequately guarded or controlled.
- The arbor size of wheels, flanges, backing pads or any other accessory must properly fit the spindle of the power tool. Accessories with arbor holes that do not match the mounting hardware of the power tool will run out of balance, vibrate excessively and may cause loss of control.
- Do not use a damaged accessory. Before each use, inspect the accessory such as abrasive wheels for chips and cracks, backing pad for cracks, tear or excess wear, wire brush for loose or broken wires. If power tool or accessory is dropped, inspect for damage or install an undamaged accessory. After inspecting and installing an accessory, position yourself and bystanders away from the plane of the rotating accessory and run the power tool at maximum no-load speed for one minute. Damaged accessories will usually break apart during this test time.
- Wear personal protective equipment. Depending on application, use face shield, safety goggles or safety glasses. As appropriate, wear dust mask, hearing protectors, gloves and workshop apron capable of stopping small abrasive or workpiece fragments. The eye protection must be capable of stopping flying debris generated by various operations. The dust mask or respirator must be capable of filtering particles generated by your operation. Prolonged exposure to high intensity noise may cause hearing loss.
- Keep bystanders a safe distance away from work area. Anyone entering the work area must wear personal protective equipment. Fragments of workpiece or of a broken accessory may fly away and cause injury beyond immediate area of operation.
- Hold the power tool by insulated gripping surfaces, when performing an operation where the cutting accessory may contact hidden wiring or its own cord. Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.
- Position the cord clear of the spinning accessory. If you lose control, the cord may be cut or snagged and your hand or arm may be pulled into the spinning accessory.
- Never lay the power tool down until the accessory has come to a complete stop. The spinning accessory may grab the surface and pull the power tool out of your control.
- Do not run the power tool while carrying it at your side. Accidental contact with the spinning accessory could snag your clothing, pulling the accessory into your body.
- Regularly clean the power tool's air vents. The motor's fan will draw the dust inside the housing and excessive accumulation of powdered metal may cause electrical hazards.
- Do not operate the power tool near flammable materials. Sparks could ignite these materials.
- Do not use accessories that require liquid coolants. Using water or other liquid coolants may result in electrocution or shock.

4. COMPONENTS AND ASSEMBLY

Familiarize yourself with the components of your angle grinder before operation.

Main Components:

- **Main Handle:** Rear grip for primary control.
- **Auxiliary Handle:** Can be attached to either side for improved control and comfort.
- **Spindle Lock Button:** Used to lock the spindle for easy accessory changes.
- **Slide Switch:** For turning the tool ON and OFF.
- **Spindle:** The rotating shaft where accessories are mounted.
- **Guard:** Protects the user from sparks and debris.

- **Inner Flange:** Secures the grinding wheel to the spindle.
- **Outer Flange Nut:** Tightens the grinding wheel onto the spindle.
- **Wrench:** Used to tighten and loosen the outer flange nut.

5. SETUP AND INSTALLATION

Attaching the Auxiliary Handle:

The auxiliary handle can be screwed into either the left or right side of the gear housing, depending on user preference and application. Ensure it is tightened securely before operation.

Installing/Changing Grinding Wheels (Sold Separately):

1. **Disconnect Power:** Always unplug the grinder from the power source before performing any assembly or adjustments.
2. **Position the Guard:** Adjust the guard to provide maximum protection for your specific application. The guard should be positioned to deflect sparks and debris away from you.
3. **Install Inner Flange:** Place the inner flange onto the spindle, ensuring it sits flat against the gear housing.
4. **Place Grinding Wheel:** Position the desired 4-1/2 inch grinding wheel onto the spindle, aligning it with the inner flange. Ensure the wheel's rated speed is equal to or greater than the grinder's maximum RPM (12,000 RPM).
5. **Install Outer Flange Nut:** Thread the outer flange nut onto the spindle.
6. **Secure the Wheel:** Press and hold the spindle lock button. Use the provided wrench to firmly tighten the outer flange nut clockwise until the wheel is securely fastened. Release the spindle lock button.
7. **Verify Installation:** Gently try to rotate the wheel by hand to ensure it is properly secured and does not wobble.

Connecting to Power:

Ensure the grinder's slide switch is in the "OFF" position before plugging the tool into a standard 120V AC power outlet. Use an extension cord rated for outdoor use if necessary, and ensure it is of adequate gauge for the tool's amperage to prevent voltage drop and overheating.

6. OPERATING INSTRUCTIONS

Always wear appropriate personal protective equipment, including eye protection, hearing protection, and gloves, before operating the angle grinder.

Turning On/Off:

- To turn the grinder ON, slide the switch forward until it locks into the ON position.
- To turn the grinder OFF, slide the switch backward to the OFF position.

Proper Grip and Technique:

- Always hold the grinder firmly with both hands, one on the main handle and one on the auxiliary handle.
- Allow the grinder to reach full speed before making contact with the workpiece.
- Apply light, consistent pressure. Do not force the tool, as this can lead to kickback or damage to the tool/accessory.

- Maintain a stable stance and keep your body clear of the rotating wheel and potential kickback path.

Material Considerations:

- Use the correct type of grinding or cutting wheel for the material you are working on (e.g., metal, masonry).
- Secure the workpiece firmly to prevent it from moving during operation.
- Be aware of sparks and debris. Ensure no flammable materials are in the vicinity.

7. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your Warrior Angle Grinder.

Cleaning:

- After each use, disconnect the power tool and clean the air vents with compressed air or a soft brush to prevent dust buildup, especially metal dust.
- Wipe down the exterior of the tool with a damp cloth. Do not use harsh chemicals or abrasive cleaners.

Replacing Carbon Brushes:

The carbon brushes are designed to be easily replaceable. Worn brushes can lead to reduced performance or tool failure. Refer to the tool's housing for brush cap locations. Unscrew the caps, remove the old brushes, and insert new ones, ensuring they are oriented correctly. Replace the caps securely.

Storage:

Store the angle grinder in a clean, dry place, out of reach of children and away from direct sunlight or extreme temperatures. Ensure the power cord is neatly coiled and not kinked.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Tool does not start.	No power supply. Slide switch not fully engaged. Worn carbon brushes.	Check power outlet and cord. Ensure switch is fully in the ON position. Inspect and replace carbon brushes if worn.
Reduced power or intermittent operation.	Worn carbon brushes. Overheating. Dust buildup in vents.	Replace carbon brushes. Allow tool to cool down. Clean air vents.
Excessive vibration.	Improperly installed wheel. Damaged or unbalanced wheel. Loose components.	Re-install wheel, ensuring it is centered and tightened. Replace wheel. Check all screws and fasteners for tightness.
Sparks from motor housing.	Normal brush wear. Severely worn carbon brushes.	Minor sparking is normal. If excessive, replace carbon brushes.

9. SPECIFICATIONS

Specification	Value
Brand	Warrior
Model Number	58089
Motor Amperage	4.3 amp
Maximum Rotational Speed	12000 RPM
Wheel Diameter	4-1/2 inches
Power Source	Electric (Corded)
Wattage	516 watts
Item Weight	3.8 pounds
Material	Metal (Gear Case), Plastic (Body)
UPC	193175433268

10. WARRANTY AND SUPPORT

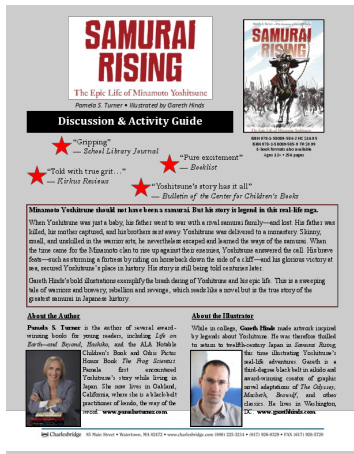
This Warrior Angle Grinder is manufactured to high-quality standards and is designed for reliable performance. For specific warranty details, please refer to the warranty card included with your product or contact the manufacturer directly. Keep your purchase receipt as proof of purchase.

Customer Support:

For technical assistance, parts, or service inquiries, please contact the manufacturer's customer support. Contact information can typically be found on the product packaging or the manufacturer's official website.

When contacting support, please have your model number (58089) and purchase date available to expedite service.



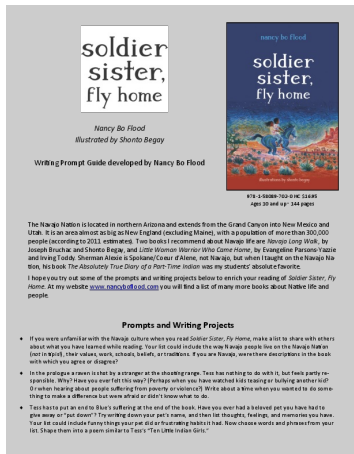


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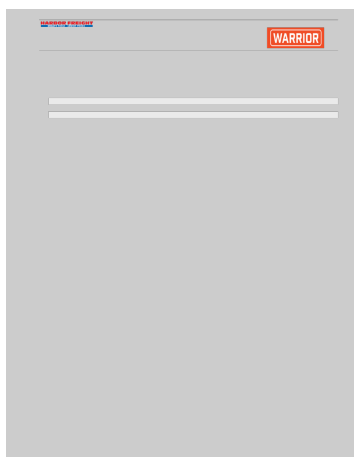


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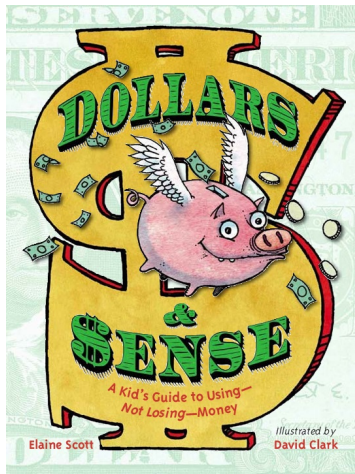


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Replacement Parts WARRIOR WARRIOR 4.5 SLIDE SWITCH GRINDER Item# **58089** UPC: N/A Part# 601793 601794 601795 601796 Description CARBON BRUSH ASM. WRENCH ARBOR ASSEMBLY GUARD ASM. Diagram Ref# 37 51 44563 44656 Price 1.62 1.62 3.25 3.79 Parts, prices and availability are subject to change w...

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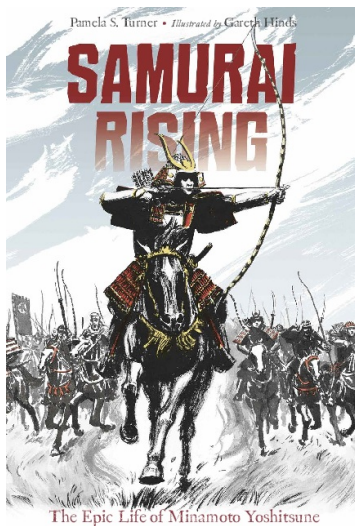


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