

Owner's Manual & Safety Instructions

Save This Manual Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference.



ITEM 61638

Wood Carving Disc



Visit our website at: <http://www.harborfreight.com>

REV 14b Email our technical support at: productsupport@harborfreight.com

When unpacking, make sure that the product is intact and undamaged. If any parts are missing or broken, please call 1-888-866-5797 as soon as possible.

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Diagrams within this manual may not be drawn proportionally. Due to continuing improvements, actual product may differ slightly from the product described herein. Tools required for assembly and service may not be included.

WARNING

Read this material before using this product. Failure to do so can result in serious injury. **SAVE THIS MANUAL.**

WARNING SYMBOLS AND DEFINITIONS

	This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.
▲ DANGER	Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
▲ WARNING	Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
▲ CAUTION	Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
NOTICE	Addresses practices not related to personal injury.
CAUTION	

Important Safety Information

▲ DANGER

To prevent serious injury, amputation, and DEATH, read and follow all power tool instructions and all instructions included with this item.

Save all warnings and instructions for future reference.

Set up Precautions

1. The grinder's safety guard MUST be positioned as described in *Adjusting the Safety Guard* on page 5 prior to installing and using Carving Disc.
2. DO NOT install Carving Disc on any grinder that requires mechanically modifying the safety guard to achieve proper positioning.
3. Set up only according to these instructions. Improper assembly can create hazards.
4. Install only on 4" or 4-1/2" angle grinder equipped with a constant pressure switch (paddle, dead man or kill switch), with a 5/8" spindle and a maximum speed of 14,000 RPM or less.
5. Wear ANSI-approved safety goggles and heavy-duty work gloves during set up.
6. Do not carve wood containing foreign objects. Remove all screws, nails, staples and other obstructions from workpiece before using Carving Disc.
7. Make sure that the power switch/trigger of the power tool is in the off-position and unplug the tool from its electrical outlet before performing any set up procedures.
8. Keep set up area clean and well lit.
9. Keep bystanders out of the area during set up.
10. Do not set up when tired or when under the influence of alcohol, drugs or medication.

Use Precautions

1. **▲ DANGER:** Keep hands away from cutting area and the Carving Disc. Keep your second hand on auxiliary

handle, or motor housing.
If both hands are holding the grinder, they cannot be cut by the Carving Disc.

- 2. Never hold piece being cut in your hands or across your leg. Secure the workpiece to a stable platform. It is important to support the work properly to minimize body exposure, Disc binding, or loss of control.**
- 3. Do not reach underneath the workpiece or remove wood shavings from the cutting area while the Disc is rotating. The safety guard cannot protect you from the Carving Disc below the workpiece.**
- 4. Operate a power tool equipped with this Carving Disc with both hands only. Using equipment with only one hand can easily result in loss of control.**
- 5. Do not operate a power tool equipped with this Carving Disc near the face or in a position above the head.**
- 6. Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.**
- 7. Follow the manufacturer's operating instructions and safety warnings applicable to your angle grinder.**
- 8. This product is not a toy. Do not allow children to play with or near this item.**
- 9. Use as intended only.**
- 10. Inspect before every use; do not use if parts are loose or damaged.**
- 11. Stay alert, watch what you are doing and use common sense when operating a power tool equipped with this Carving Disc. Do not use while tired or under the influence of drugs, alcohol or medication.**
- 12. Dress properly. Do not wear loose clothing or jewelry. Keep hair, clothing and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts.**
- 13. The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.**

Kickback and Related Warnings

Kickback is a sudden reaction to a pinched or snagged rotating wheel, backing pad, brush or any other accessory. Pinching or snagging causes rapid stalling of the rotating accessory which in turn causes the uncontrolled power tool to be forced in the direction opposite of the accessory's rotation at the point of the binding.

For example, if an abrasive wheel is snagged or pinched by the workpiece, the edge of the wheel that is entering into the pinch point can dig into the surface of the material causing the wheel to climb out or kick out. The wheel may either jump toward or away from the operator, depending on direction of the wheel's movement at the point of pinching. Abrasive wheels may also break under these conditions.

Kickback is the result of power tool misuse and/or incorrect operating procedures or

conditions and can be avoided by taking proper precautions as given below.

- 1. Maintain a firm grip on the power tool and position your body and arm to allow you to resist kickback forces. Always use auxiliary handle, if provided, for maximum control over kickback or torque reaction during start-up. The operator can control torque reactions or kickback forces, if proper precautions are taken.**
- 2. Never place your hand near the rotating accessory. Accessory may kickback over your hand.**
- 3. Do not position your body in the area where power tool will move if kickback occurs. Kickback will propel the tool in direction opposite to the wheel's movement at the point of snagging.**

Kickback and Related Warnings (continued)

4. Use special care when working corners, sharp edges etc. Avoid bouncing and snagging the accessory. *Corners, sharp edges or bouncing have a tendency to snag the rotating accessory and cause loss of control or kickback.*
5. This tool is designed to reduce the risk of kickback. However, improper assembly, installation, or usage may still cause kickback.

Set up Instructions



Read the **ENTIRE IMPORTANT SAFETY INFORMATION** section at the beginning of this document including all text under subheadings therein before set up or use of this product.

WARNING

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:

Make sure that the power switch/trigger of the power tool is in the off-position and unplug the tool from its electrical outlet before performing any procedure in this section.

Installing the Carving Disc

1. Press in and hold the grinder's spindle lock (if equipped) and use a spanner wrench (not included) to loosen and remove the grinder's outer flange nut.
 2. Carefully remove center plug holding the three components of the Carving Disc assembly together and retain for future use.
 3. Hold Disc firmly so the components don't separate and with the side stamped TOP facing up, place it over the grinder spindle until seated on the grinder's inner flange.
- Note:** If components become separated refer to *Disc and Chain Assembly* on page 5.
4. Thread the outer flange nut into place and tighten securely with a spanner wrench.

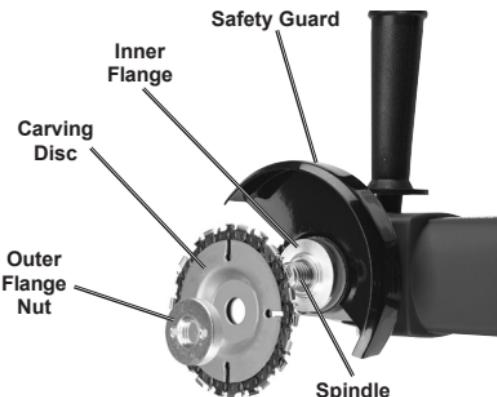


Figure A

Adjusting the Safety Guard

1. Lay the grinder to be used on its side and loosen the hardware securing the safety guard in place.
2. Rotate the safety guard until it is at an approximate 45° angle with the grinder body. Refer to Figure B.
3. Tighten the hardware holding the guard in place and ensure it is secure. Adjust if necessary before proceeding.

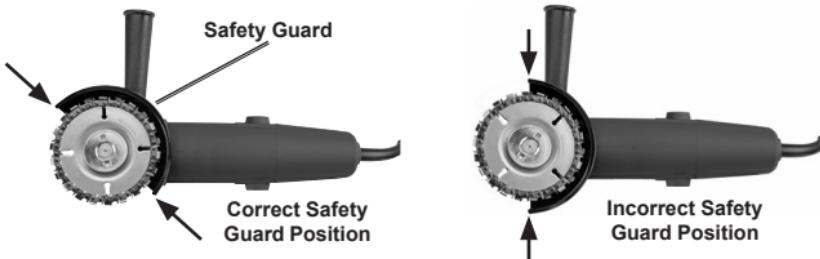


Figure B

Disc and Chain Assembly

The Carving Disc consists of three components, a top disc stamped TOP, a bottom disc stamped BOTTOM, and a saw chain. To assemble the components use the following procedure:

1. Place the bottom disc with the word BOTTOM facing up on a flat surface.
2. Place the saw chain on the bottom disc with rakers facing left as shown in Figure C and arrange chain around the outside edge of the disc, making sure chain link tangs fit over disc perimeter.

Note: Chain direction is critical for proper operation. If assembled in the wrong direction, the saw chain blades will not cut effectively and may burn the wood due to heat buildup.

3. Place the top disc with the word TOP facing up onto the saw chain and bottom disc. Make sure that the slots in the top disc line up with the slots in the bottom disc and make minor adjustments to the position of the top and bottom discs until the chain is secured between them.

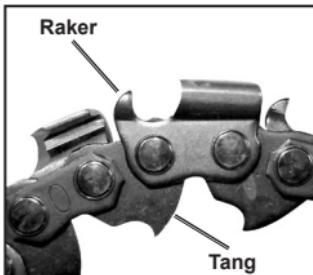


Figure C

Operation Instructions



Read the **ENTIRE IMPORTANT SAFETY INFORMATION** section at the beginning of this document including all text under subheadings therein before set up or use of this product.

Workpiece and Work Area Set Up

1. Designate a work area that is clean and well-lit. The work area must not allow access by children or pets to prevent distraction and injury.
2. Route the power cord along a safe route to reach the work area without creating a tripping hazard or exposing the power cord to possible damage. The power cord must reach the work area with enough extra length to allow free movement while working.
3. Secure loose workpieces using a vise or clamps (not included) to prevent movement while working.
4. There must not be hazardous objects, such as utility lines or foreign objects, nearby that will present a hazard while working.
5. You must use personal safety equipment including, but not limited to, ANSI-approved safety goggles underneath full face shield, hearing protection, and heavy-duty work gloves.

Operation

WARNING

TO PREVENT SERIOUS INJURY: Grip the tool firmly in both hands.

1. Follow the manufacturer's operating instructions and safety warnings applicable to your angle grinder.
2. Make sure that the switch/trigger is in the off-position, then plug in the tool.
3. Turn on the switch or squeeze the trigger to start the tool. DO NOT start the tool with the Carving Disc in contact with the workpiece.
4. Allow the Carving Disc to come up to full speed before touching the work material.
5. Use both hands to operate grinder. Hold tool at main housing, and use auxiliary handle on top/side.
6. Apply the Carving Disc to the work material, allowing the tool to operate at full speed.
7. Do not use excessive pressure or force the Carving Disc into the workpiece. If the tool bogs down, use lighter pressure. Allow the tool to do the work.
8. Periodically remove sawdust and wood shavings from around and under the grinder's on/off switch to prevent buildup of debris and ensure safe switch operation.
9. **TO PREVENT ACCIDENTS, AFTER USE:**
Turn off the tool.
WARNING! Allow the tool to come to a complete stop before setting it down. Unplug the tool. Remove the Carving Disc from the grinder, replace center plug to hold the Carving Disc assembly together, then store the Disc indoors out of children's reach.

WARNING! Cut by pulling the saw back towards you, not pushing away from you.

Maintenance

WARNING

TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:

Make sure that the Power Switch/Trigger of the power tool is in the off-position and unplug the tool from its electrical outlet before performing any procedure in this section.

For optimum performance, periodically sharpen the saw chain:

- a. Wear heavy-duty work gloves and remove the Carving Disc from the power tool.
- b. Replace the center plug supplied with the accessory to hold the Carving Disc assembly together.
- c. Hold the Disc assembly in one hand and sharpen the saw chain blades using a standard 1/8" or 5/32" chainsaw file.
- d. Reinstall the Carving Disc or store indoors out of children's reach.



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