

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 (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.

231

WARRIOR®

14 PIECE BI-METAL HOLE SAW SET



Visit our website at: <http://www.harborfreight.com>
Email our technical support at: productsupport@harborfreight.com

57525

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.

⚠ WARNING

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

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Specifications

Type	Bi-Metal
Piece Count	14
Saw Sizes	3/4", 7/8", 1-1/8", 1-3/8", 1-1/2", 1-3/4", 2, 2-1/8", 2-1/4", 2-1/2"
Other Pieces	Spare Pilot Drill Bit Pilot Drill Bit/Small Mandrel with Adapter and Clamp Washer Pilot Drill Bit/Large Mandrel

IMPORTANT SAFETY INFORMATION

1. **Wear ANSI-approved safety goggles and heavy-duty work gloves during setup and use.**
2. **Set contains sharp blades.**
Keep away from children.
3. **Use correct size arbor for selected Hole Saw.**
4. **Verify drill's chuck is in good condition and fits securely.**
5. **Do not use excessive pressure when cutting a hole.**
6. **Use as intended only; do not modify tools.**
7. **Inspect before every use; do not use if parts are loose or damaged.**
8. **Use both hands when drilling and keep blade at 90° to workpiece.**
9. **Store saw blades in secure location away from children.**
10. **Read and adhere to all safety warnings and operating instructions of drill used with Set.**
11. **The warnings, cautions, 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.



SAVE THESE INSTRUCTIONS.

Setup

⚠ CAUTION

TO PREVENT INJURY:

Wear heavy-duty work gloves and ANSI-approved safety goggles during setup and whenever handling the Hole Saws.

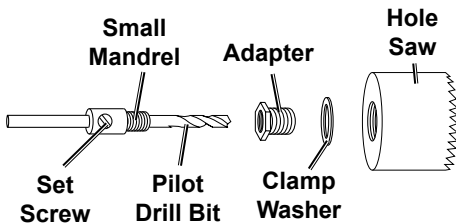
1. Select the desired size Hole Saw and either the Large or Small Mandrel.

NOTE: Unthread the 2-1/2" and 2-1/8" Hole Saws from one another before use.

2. The correct size Mandrel will fit exactly into the Hole Saw.

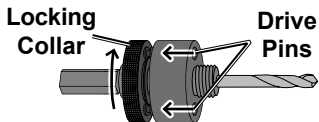
Small Mandrel:

- a. Use the Adapter to attach the Small Mandrel to medium size Hole Saws (such as 1-3/8" and 1-1/2" sizes.) Carefully thread Adapter with Clamp Washer into Hole Saw and then thread the Small Mandrel through the bottom so that it screws into the Adapter.
- b. Adjust Small Mandrel position on Pilot Drill Bit. Tighten Set Screw.

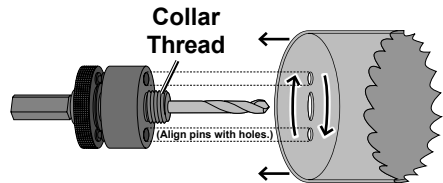


Large Mandrel:

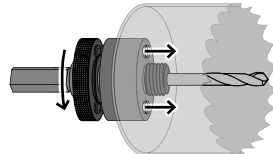
- a. Unthread knurled Locking Collar to retract Drive Pins.



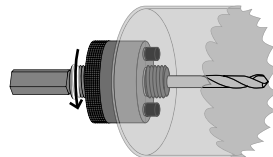
- b. Thread Hole Saw onto Collar Thread until Drive Pins align with the holes in Saw. Hole Saw does not need to be threaded tight.



- c. Tighten knurled Locking Collar to extend Drive Pins through holes in Saw.



- d. Mandrel/Hole Saw assembly should appear as illustrated below.



3. Open jaws of drill chuck (sold separately).
4. Place the Pilot Drill Bit shaft completely into the chuck and securely tighten the chuck.

Operation

1. Holding the drill at 90° to the workpiece, set the Hole Saw on the workpiece.
2. Press the drill's trigger to turn it on.
3. If the drill is a variable speed type, cut the workpiece slowly until a circle groove is made in the workpiece. Then cut faster.
4. When the hole is cut, release the trigger and wait for the Hole Saw to come to a complete stop before removing it from the workpiece.
5. When finished, remove the Hole Saw from drill's chuck.
6. Remove plug from Hole Saw using slot openings to access plug.
7. Remove Hole Saw from the Mandrel and clean off Hole Saw with a cloth.
8. Store the Hole Saws out of reach of children.
9. Replace the Pilot Drill Bit if dull or broken. Make sure the Bit is securely held in place after being reinstalled.

Record Product's Serial Number Here: _____

Note: If product has no serial number, record month and year of purchase instead.

Note: Replacement parts are not available. Reference UPC 193175503206.

Limited 90 Day Warranty

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. 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 product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

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