

## Specifications

# Cylinder Hone

### Item 97163 – Brake Caliper Cylinder Hone

### Item 97164 – Engine Cylinder Hone

Item	97163	97164
Application	Brake Caliper	Engine
Capacity	3/4"–2-1/2"	2"–7"
Shaft	5/16"	5/8"

## Important Safety Information

### INSTRUCTIONS AND PRECAUTIONS

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

## WARNING

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

**When unpacking, make sure  
that the product is intact and  
undamaged.  
If any parts are missing or broken,  
please call 1-800-444-3353  
as soon as possible.**

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Tools. Diagrams within this document 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.

**For technical questions or replacement  
parts, please call 1-800-444-3353.  
Manual Revised 11b**

1. Wear ANSI-approved safety goggles during use.
2. Keep work area clean and well lit.
3. Keep bystanders out of the work area.
4. Do not use when tired or when under the influence of drugs or medication.
5. This product is not a toy. Do not allow children to play with or near this item.
6. Use as intended only.
7. Inspect before every use; do not use if parts are loose or damaged.
8. Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts. *Loose clothes, jewelry or long hair can be caught in moving parts.*
9. 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 and cement or 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. (California Health & Safety Code § 25249.5, *et seq.*)

10. 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.

## Operating Instructions



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

1. Connect the hone to an appropriate size drill or drill press.
2. Hone the cylinder per the cylinder manufacturer's directions.

**WARNING!** After honing, clean the cylinder thoroughly. Otherwise the remaining dust from the honing procedure will cause critical failure.

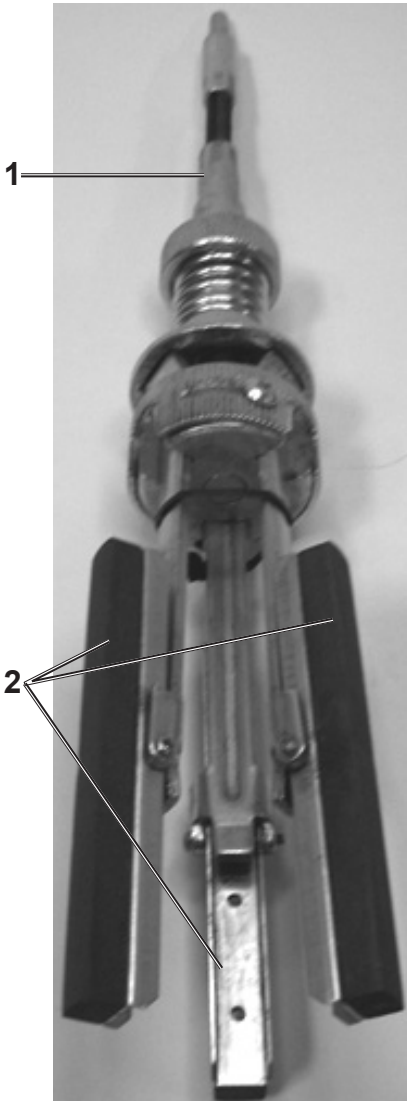
3. To prevent accidents, remove the hone from the drill. Clean, then store the tool indoors out of children's reach.

## Maintenance And Servicing

1. **BEFORE EACH USE**, inspect the general condition of the tool. Check for loose screws, misalignment or binding of moving parts, cracked or broken parts, and any other condition that may affect its safe operation.
2. **AFTER USE**, clean external surfaces of the tool with clean, dry cloth.
3. Replace the hone blocks as needed by removing the screws that attach the blocks to the hone arms and fastening on new blocks. Replace all blocks at the same time.

## Parts List and Assembly Diagram

Part	Description	Qty
1	Shaft	1
2	Hone Blocks	3



### Record Serial Number Here:

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

**Note:** Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts.

## PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS DOCUMENT AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

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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.

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