

Bearing Separator and Puller Set

Item 93980

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.**



Specifications

Bearing Splitter Sizes	2 IN. / 3 IN.
Push - Puller Leg Dimensions	2 sets with 2 extension legs each; 4 IN. / 5 IN.
Yoke	6 IN. With Center Adapter

Important Safety Information

Assembly Precautions

1. Assemble only according to these instructions. Improper assembly can create hazards.
2. Wear ANSI-approved safety goggles and heavy-duty work gloves during assembly.
3. Keep assembly area clean and well lit.
4. Keep bystanders out of the area during assembly.
5. Do not assemble when tired or when under the influence of drugs or medication.

Use Precautions

1. This product is not a toy. Do not allow children to play with or near this item.
2. Use as intended only.
3. Inspect before every use; do not use if parts are loose or damaged.
4. Maintain product labels and nameplates. These carry important safety information. If unreadable

or missing, contact Harbor Freight Tools for a replacement.

Specific Safety

Precautions

1. Be certain that the separator jaws are evenly set between bearing halves before attempting to separate.
2. Lead Screw (5) should be centered on the shaft where the bearings are being pulled to avoid damaging shaft or bearing housing.
3. Avoid pinching or scraping the bearing shaft by securely (and squarely) placing the Jaws around the bearing housing.
4. Use care when removing the Lead Screw from the Case to avoid damaging the threads. Pry up from the ends of the Lead Screw.

Operating Instructions

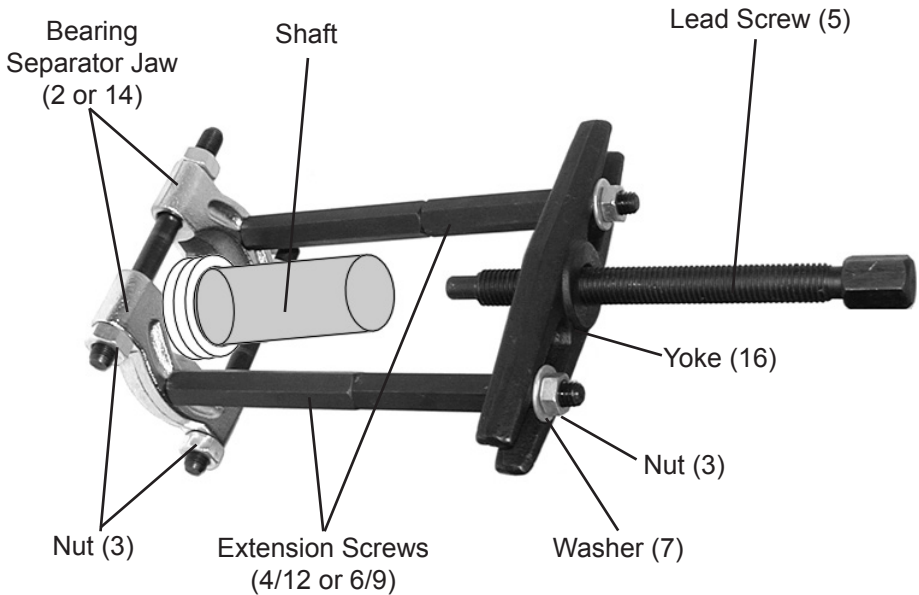


Read the **ENTIRE IMPORTANT SAFETY INFORMATION** section at the beginning of this document including all text under subheadings therein before set up or use of this product.

Pulling Bearings off Shaft

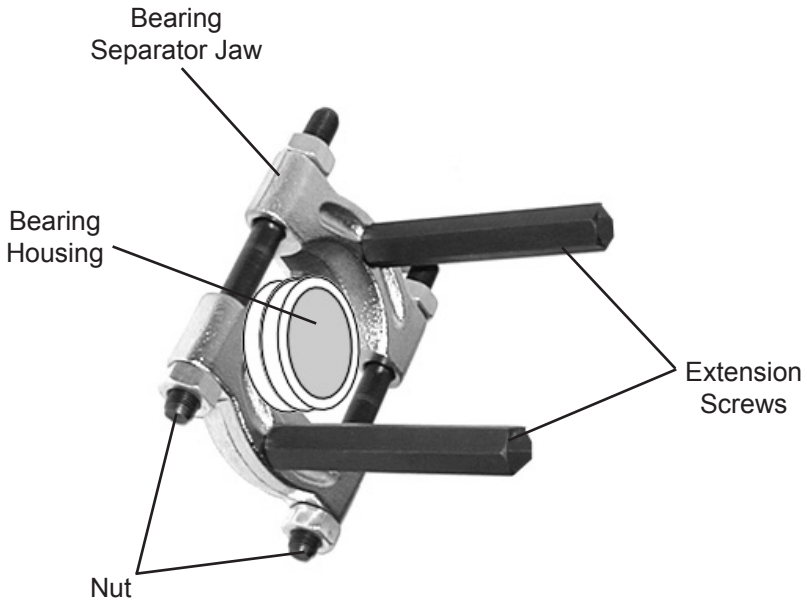
1. Select the proper size Bearing Separator Jaw (2 or 14) for the bearing size (2.2 IN. ~ 3 IN. or 2 IN.) being removed from the shaft.

2. Loosen the Separator Jaw Nuts (3) sufficiently to allow the jaws to catch behind the bearing housing.
 3. Using a wrench (not included), begin to evenly tighten the Nuts until the jaws are securely set behind the bearing housing.
 4. Screw in both Extension Screws of the same length (4 / 12 or 6 / 9) into the Bearing Separator Jaws as shown below.
- NOTE:** Do not use Extension Screws of different lengths.
5. Place the 6 inch Yoke (16) over the Extension Screws and tightly secure with Washers (7) and Nuts (3).
 6. Screw in Lead Screw (5) into the Yoke until it touches the center of the shaft where the bearings are mounted.
 7. Using a wrench, turn the Lead Screw clockwise until the bearing housing begins to move off the shaft.
 8. Continue turning the Lead Screw until the bearing housing is off the shaft.
 9. Remove the Lead Screw by turning it counterclockwise.
 10. Remove bearing housing.



Separating Bearing Housings

1. Select the proper size Bearing Separator Jaw (2 or 14) for the bearing size being separated. Refer to the illustration below.
2. Loosen the Separator Jaw Nuts sufficiently to allow the jaws to catch between each bearing housing.
3. Using a wrench (not included) begin to tighten Nuts until the jaws are securely set between the bearing housings.
4. Screw in the selected Extension Screws (4/12 or 6/9) as shown below.
5. The Extension Screws allows the user to grip them and add stability while tightening Nuts.
6. Continue tightening Nuts until the bearing housings are separated.
7. When the bearing housings are separated, remove the Bearing Separator Jaw.
8. **CAUTION!** Overtightening Separator Jaw Nuts may damage bearings.



Maintenance and Servicing

PLEASE READ THE FOLLOWING CAREFULLY

1. **BEFORE EACH USE**, inspect the general condition of the Bearing Puller. Check for loose attachments, binding of moving parts, cracked or broken Attachments, and any other condition that may affect its safe operation. If any abnormality is found, have the problem corrected before further use.
2. **AFTER EACH USE**, wipe off Bearing Puller with clean, moist cloth.
3. Lubricate attachments regularly to ensure smooth operation.
4. Replace attachment if threads begin wear and will not attach to Slide Hammer.

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.

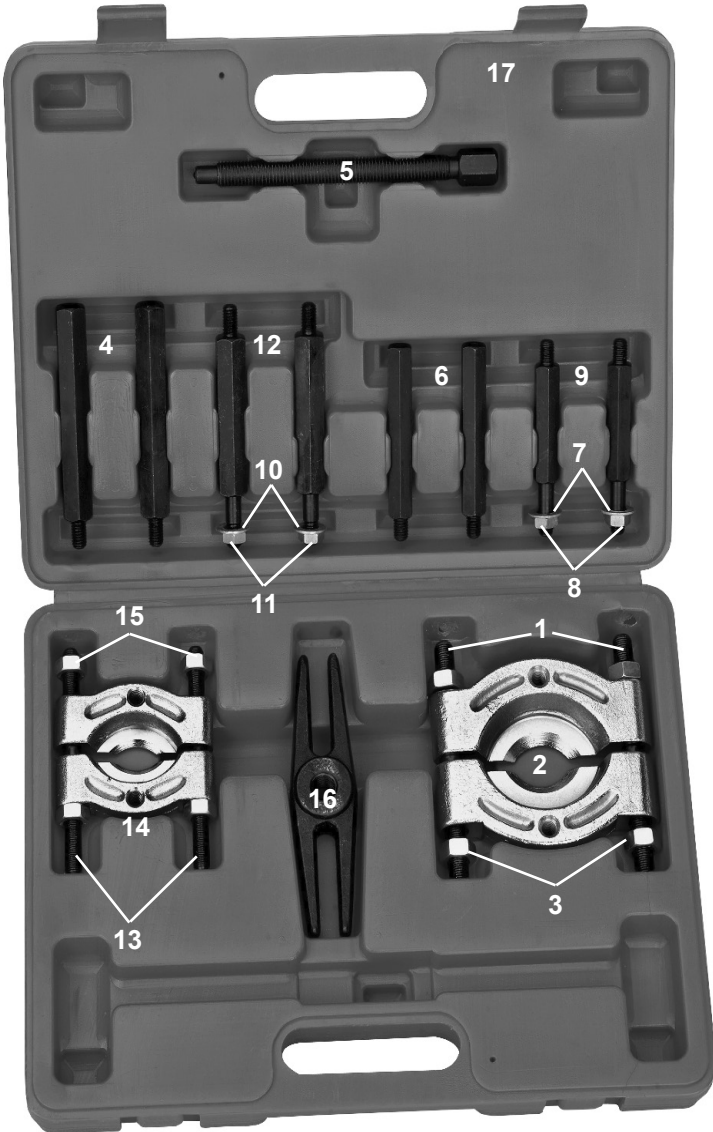
Record Serial Number Here:

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

Parts List

Part	Description	Qty
1	Screw (M12 x 1.25)	1
2	2.2 IN, ~ 3 IN. Bearing Separator Jaw	1
3	Nut (M12 x 1.25)	4
4	6 IN. Extension Screw (Male and female threads)	2
5	Lead Screw	1
6	4 IN. Extension Screw (Male and female threads)	2
7	Washer	2
8	Nut	2
9	4 IN. Extension Screw (Male threads)	2
10	Washer	2
11	Nut (3/8 IN.)	2
12	6 IN. Extension Screw (Male threads)	2
13	Screw (M10x1)	2
14	2 IN. Bearing Separator Jaw	1
15	Nut (M10x)	4
16	6 IN. Yoke	1
17	Case	1

Parts Diagram



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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