

# **PITTSBURGH<sup>®</sup>** **AUTOMOTIVE**

## **Torque Multiplier / Lugnut Remover**

**93645 Lugnut Remover**

### **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

Drive Size	1/2"
Sizing Type	SAE and Metric

## Important Safety Information

1. Use only according to these instructions. Improper usage can create hazards.
2. Wear ANSI-approved safety goggles and heavy-duty work gloves during use.
3. Do not force the tool. Use the correct tool for your application. The correct tool will do the job better and safer at the rate for which it is designed. Do not force the tool and do not use the tool for a purpose for which it is not intended. This tool is designed explicitly to help remove or tighten lugnuts. It should not be used for any other purpose, because improper mounting could result in the unit coming loose under load, causing severe personal injury or property damage.
4. Verify that the socket and the support completely and securely fit over both lugnuts before use.
5. After this tool is used, a torque wrench (not included) must also be used to verify that the lugnuts are properly tightened in place.
6. **DO NOT OVERTIGHTEN. NEVER** use this tool to tighten a nut/bolt above its torque specification.
7. Before every use, check for any broken parts or mounting fixtures, and any other condition that may affect proper operation. Any part that appears damaged should be carefully checked to determine that it will operate properly and perform its intended function. Do not use if any socket is worn, cracked, or chipped.
8. Stay alert. Watch what you are doing, use common sense. Do not use this tool if you are tired.
9. Do not use this tool if under the influence of alcohol or drugs. Read warning labels if taking prescription medicine to determine if your judgment or reflexes are impaired while taking drugs. If there is any doubt, do not use this tool.
10. Replacement parts and accessories. When servicing, use only identical replacement parts. Use of any other parts is dangerous and will void the warranty. Only use accessories intended for use with this tool. **DO NOT USE ANY DIFFERENT HANDLES OR SOCKETS WITH THIS TOOL;** sockets/handles not designed for this tool may break or cause the unit to become unstable, causing personal injury or property damage.
11. This unit may cause some cosmetic damage to the rim during normal use.
12. The warnings, cautions, and instructions discussed in this instruction sheet 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 set, but must be supplied by the operator.

## 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.

1. Attach chosen Socket (1a-1d) to Output Driver (7). **Note:** Output Driver (7) is on side of Housing (4) that has no screw heads visible.
2. Attach Support Socket and Knob (2,3) through slot in housing, with Support Socket (2) on same side as Socket (1a). Leave Knob (3) loose.
3. Raise vehicle, support vehicle on jackstands (not included), engage parking brake, and place wheel chocks (not included) on any wheels contacting ground.
4. Place Socket over lugnut that will be tightened or loosened and place Support Socket over another lugnut on same rim. The Socket may need to be repositioned and/or Input Driver (13) may need to be turned to get both sockets securely in place. Tighten Support Knob. **WARNING:** Make certain that both Sockets are securely in place over lugnuts.
5. Place Handle Shaft (16) over Input Driver (13), unfold Handle (18) and turn it in direction noted on Gearbox Cover (15). **NOTE:** This will be the opposite of normal tightening/loosening direction. The Handle should move relatively easily - if it does not, unit may be assembled backwards. Check step one above to ensure that Socket is on Output Driver (7). Keep in mind that socket will move slowly by design.

6. When tightening, finger tighten lugnut first. Keep in mind this device allows you to apply much more torque than you ordinarily could. Use care not to overtighten lugnuts.
7. After use, disassemble, clean, and store in Carrying Case (19).

## Maintenance and Servicing

1. **Before each use**, inspect general condition of tool. Check for misalignment or binding of moving parts, cracked or broken parts, and any other condition that may affect its safe operation. **Do not use damaged equipment.**
2. **After use**, clean external surfaces with a mild detergent. Do not use solvents.
3. **When storing**, keep Lugnut Remover in a clean, dry, safe location that is out of reach of children.

Record Serial Number Here:

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

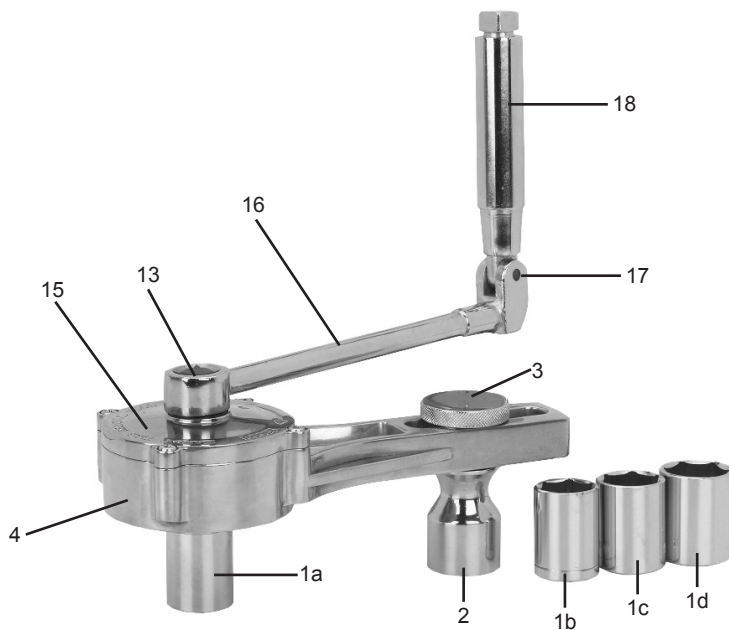
### PLEASE READ THE FOLLOWING CAREFULLY

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.

## Parts List and Diagram

Part	Description	Qty
1a	19mm Socket	1
1b	3/4" Socket	1
1c	13/16" Socket	1
1d	7/8" Socket	1
2	Support Socket	1
3	Support Knob	1
4	Housing	1
5	Bearing (not shown)	1
6	Outer Gear (not shown)	1
7	Output Driver (not shown)	1
8	Pin (not shown)	1

Part	Description	Qty
9	Inner Gear (not shown)	1
10	Eccentric Bushing (not shown)	1
11	Pin (not shown)	1
12	Inner Annulus Gear (not shown)	1
13	Input Driver	1
14	Bearing (not shown)	1
15	Gearbox Cover	1
16	Handle Shaft	1
17	Handle Pin	1
18	Handle	1
19	Carrying Case (not shown)	1



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