

Owners Manual

Product Code: TQ39-0180



UNIVERSAL HYDRAULIC BUSH EXTRACTOR



Ram Capacity (KG)	Sleeve Sizes (mm)	Included Spindle Sizes	Number of Pieces	Carton Dimensions (mm)
18,000	18-60 mm(ID) 26-68 mm(OD) (2 mm increments)	M10 x P1.5 M12 x P1.75 M14 x P2.0 M16 x P2.0	49	890 x 380 x 170



TQB Brands Pty Ltd

www.tqbbrands.com.au

12.2025

WARNING INFORMATION



Wear Appropriate Personal Protective Equipment (PPE):

Always wear appropriate personal protective equipment (PPE) when operating this product to minimise risks from high-pressure hydraulics, flying debris, pinch points, or sudden component release. Recommended PPE includes safety glasses or goggles to protect against debris and potential fluid splashes, cut-resistant gloves for handling sharp components, steel-capped safety boots, and close-fitting clothing.



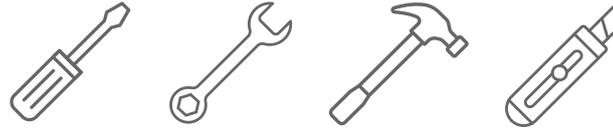
IMPORTANT: READ ALL INSTRUCTIONS BEFORE USE

- Please read this Owner’s Manual completely and make sure you fully understand it before using or operating the tool.
- Do not allow anyone else to use or operate the tool until they have also read this manual and fully understand how the tool works.
- Failure to follow any instruction or warning in this manual may result in serious personal injury to the operator or bystanders, and/or cause damage to the tool or property.
- Keep this manual in a safe, dry place where it can easily be found for future reference.
- While every effort has been made to ensure the information in this manual is accurate and complete, TQB Brands Pty Ltd pursues a policy of continuous product improvement. We therefore reserve the right to make changes to the product and manual at any time without prior notice.

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FEATURES



Key Features

- This unit can be operated by using a hydraulic pump with an output of 10,000 PSI or 700 BAR (compatible with the TRADEQUIP 2054T air/hydraulic foot pedal)
- Designed specifically for the efficient removal and installation of bushings and bearings.
- Powerful 18T hydraulic cylinder delivers high force for effortless and time-saving operations.
- Includes 4 threaded spindles: M10 × 1.5, M12 × 1.75, M14 × 2.0, and M16 × 2.0 (each with sliding and fixing nuts).
- Comprehensive range of sleeves: inner diameters (ID) from 18–60 mm and outer diameters (OD) from 26–68 mm, in 2 mm increments.
- Versatile universal application suitable for a wide variety of automotive and mechanical tasks.
- Complete 49-piece set, including short (40 mm) and long (110 mm) sockets for added flexibility.

BEFORE USE



Precautions Before Use

Before each use of the tool, please perform the following checks:

- Inspect the hydraulic cylinder, spindles, sleeves, and all components for any signs of damage, wear, cracks, or leaks before each use. Do not use if any damage is found.
- Verify that the selected spindle and sleeve combination is appropriate for the bushing or bearing size and the workpiece to avoid overloading or slippage.
- Always ensure the workpiece is securely supported and stable (e.g., clamped in a vice or placed on a solid workbench) to prevent movement during operation. This applies equally when working under a vehicle, where the suspension component remains attached to the vehicle.
- Confirm that the hydraulic pump and cylinder are in good working order, with no air in the system—bleed the hydraulics if necessary.
- Check that all threads on spindles and nuts are clean and undamaged for proper engagement.
- Never exceed the rated capacity of 18T; calculate the required force and select components accordingly.
- Work in a clean, well-lit area free from distractions to maintain full control during operation.
- Ensure no bystanders are within the work area, as sudden release of components under pressure can cause injury.

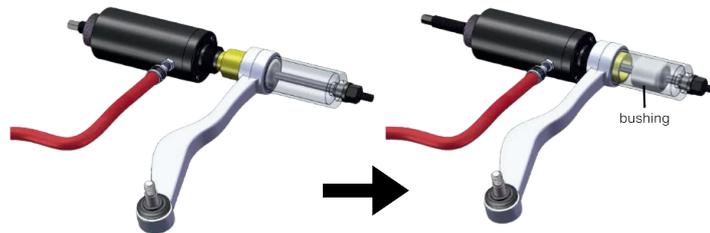
OPERATION

Operation Instructions

Important Safety Precaution: Before applying hydraulic pressure, ensure that all components—including the spindle, sockets, and the bushing itself—are precisely aligned with the control arm axis. Misalignment may cause damage to the tool or the vehicle component and may lead to equipment failure.

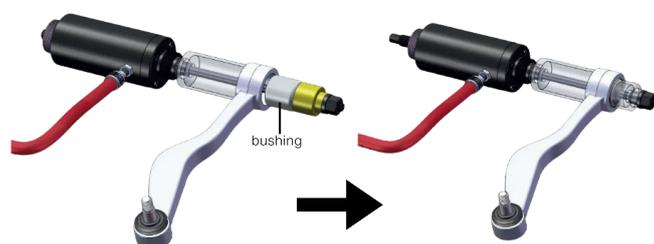
Procedure A: Bushing Removal

1. **Component Selection:** Identify and select the appropriate size for the pushing socket (short) and the receiving socket (long) from the kit based on the bushing inside and outside diameter.
2. **Tool Configuration:** Insert the required pull spindle through the center of the hydraulic cylinder. Always choose the spindle with the closest size to the inside diameter of the bush/bearing.
3. **Assembly:** Arrange the components on the spindle in the following sequence: pushing socket, control arm/suspension bush housing, and the receiving socket.
4. **Securing the Load:** Thread the sliding nut and fixing nut onto the spindle end. Hand-tighten until the entire assembly is snug against the control arm/suspension bush housing.
5. **Hydraulic Connection:** Attach the hydraulic hose from the pump to the high flow quick connector on the cylinder.
6. **Operation:** Actuate the pump to extend the hydraulic ram. This force will draw the spindle through the cylinder, pressing the old bushing out of the control arm and into the receiving socket.



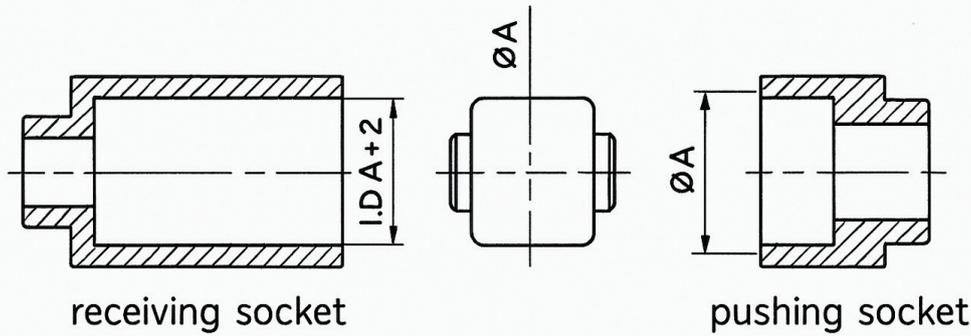
Procedure B: Bushing Installation

1. **Component Selection:** Select the correct diameter pushing and receiving sockets required for the new bushing installation.
2. **Tool Configuration:** Insert the appropriate pull spindle into the hydraulic cylinder.
3. **Assembly:** Position the new bushing against the control arm aperture. Assemble the pushing socket and receiving socket onto the spindle so they sandwich the bushing and control arm.
4. **Securing the Load:** Install the sliding nut and fixing nut (shoulder nut) onto the spindle. Ensure the assembly is tight and the bushing is started straight and concentric into the bore.
5. **Hydraulic Connection:** Verify the high flow quick connector is securely connected to the cylinder.
6. **Operation:** Actuate the pump steadily. The hydraulic cylinder will pull the spindle, pressing the new bushing into the control arm until it is fully seated in the correct position.

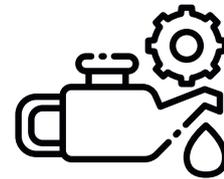


OPERATION cont.

CHOOSE SUITABLE SIZED SOCKETS



MAINTENANCE



To ensure the longevity and safe operation of your hydraulic bushing tool kit, follow these maintenance guidelines:

General Care & Inspection

- **Cleaning:** After each use, wipe down all components, including the spindles and sockets, with a clean, lint-free cloth to remove grease, metal shavings, or debris.
- **Visual Inspection:** Regularly inspect the hydraulic cylinder, hose and high flow quick connector for signs of leaking fluid, cracks, or bulging.
- **Thread Integrity:** Check the threads on the M10, M12, M14, and M16 spindles for any signs of stripping, flattening, or cross-threading.

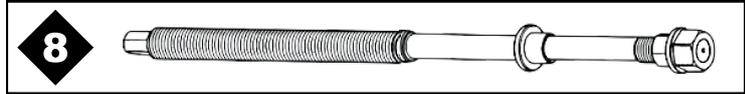
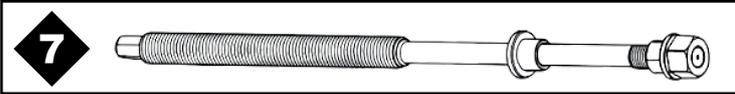
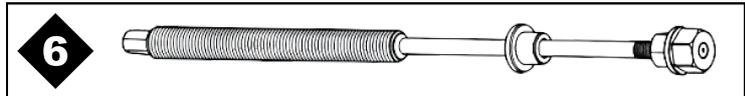
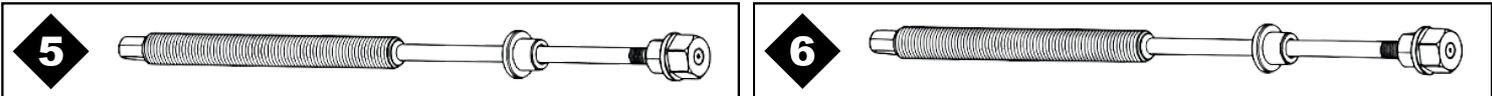
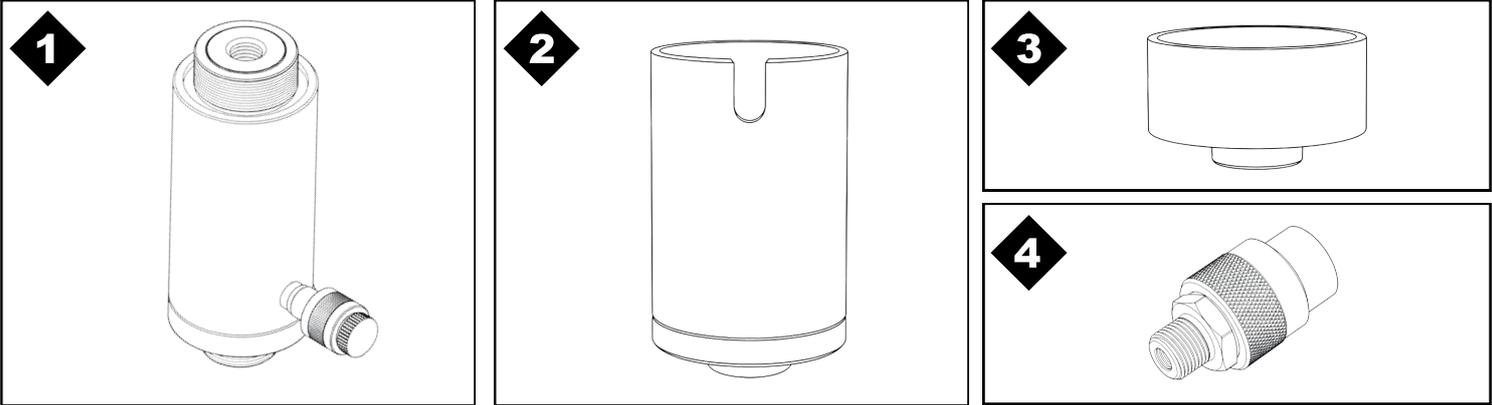
Lubrication & Storage

- **Thread Lubrication:** Apply a high-quality grease to the pull spindles and nuts before and after use to reduce friction and prevent premature wear.
- **Hydraulic Couplings:** Keep the hydraulic high flow quick connector clean.
- **Storage:** Store all components in a dry, climate-controlled environment to prevent rust and corrosion on the precision-machined surfaces.

Hydraulic System Maintenance

- **Fluid Levels:** Periodically check the oil level in your hydraulic pump (not included) according to the manufacturer's specifications to ensure the 18T cylinder reaches full useable oil capacity.
- **Air Bleeding:** If the ram operation feels "spongy" or inconsistent, follow the pump manufacturer's instructions to bleed air from the hydraulic circuit.

PARTS BREAKDOWN & PARTS LIST



Item	Description
1	Hydraulic cylinder 18T
2	Long socket 110 mm in length (21 pcs)
3	Short socket 40 mm in length (21 pcs)
4	3/8" high flow quick connector
5	M10 x P1.50 spindle, sliding nut, and fixing nut
6	M12 x P1.75 spindle, sliding nut, and fixing nut
7	M14 x P2.00 spindle, sliding nut, and fixing nut
8	M16 x P2.00 spindle, sliding nut, and fixing nut

Socket Sizes: OD x ID mm		
Ø26×18 mm	Ø28×20 mm	Ø30×22 mm
Ø32×24 mm	Ø34×26 mm	Ø36×28 mm
Ø38×30 mm	Ø40×32 mm	Ø42×34 mm
Ø44×36 mm	Ø46×38 mm	Ø48×40 mm
Ø50×42 mm	Ø52×44 mm	Ø54×46 mm
Ø56×48 mm	Ø58×50 mm	Ø60×52 mm
Ø62×54 mm	Ø64×56 mm	Ø66×58 mm
Ø68×60 mm		

WARRANTY

TRADEQUIP Product Warranty Information

All TRADEQUIP products undergo thorough testing and quality assurance procedures prior to dispatch to ensure they are free from defects in materials and craftsmanship. A warranty is provided for a period of twelve months from the date of purchase. This warranty shall be void if the product is leased or hired out to third parties.

Warranty Claim Process

Should you experience any issues with your equipment, please return the complete product to your nearest authorized warranty repair agent or contact the TQB Brands Pty Ltd Warranty team at warranty@tqbbrands.com.au.

- If an inspection determines that the fault is due to defective materials or workmanship, repairs will be conducted at no cost to you.
- This warranty does not cover normal wear and tear or damages resulting from misuse, careless handling, unsafe practices, alterations, accidents, or repairs attempted by anyone other than an authorized TQB Brands Pty Ltd repair agent.

Important Notes

- This warranty supersedes any other expressed or implied guarantees, and modifications to its terms are not permitted.

Your TQB Brands Pty Ltd warranty is valid only if you can provide a dated receipt or invoice as proof of purchase within the 12-month period.

Consumer Guarantee Our goods come with a guarantee that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.





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