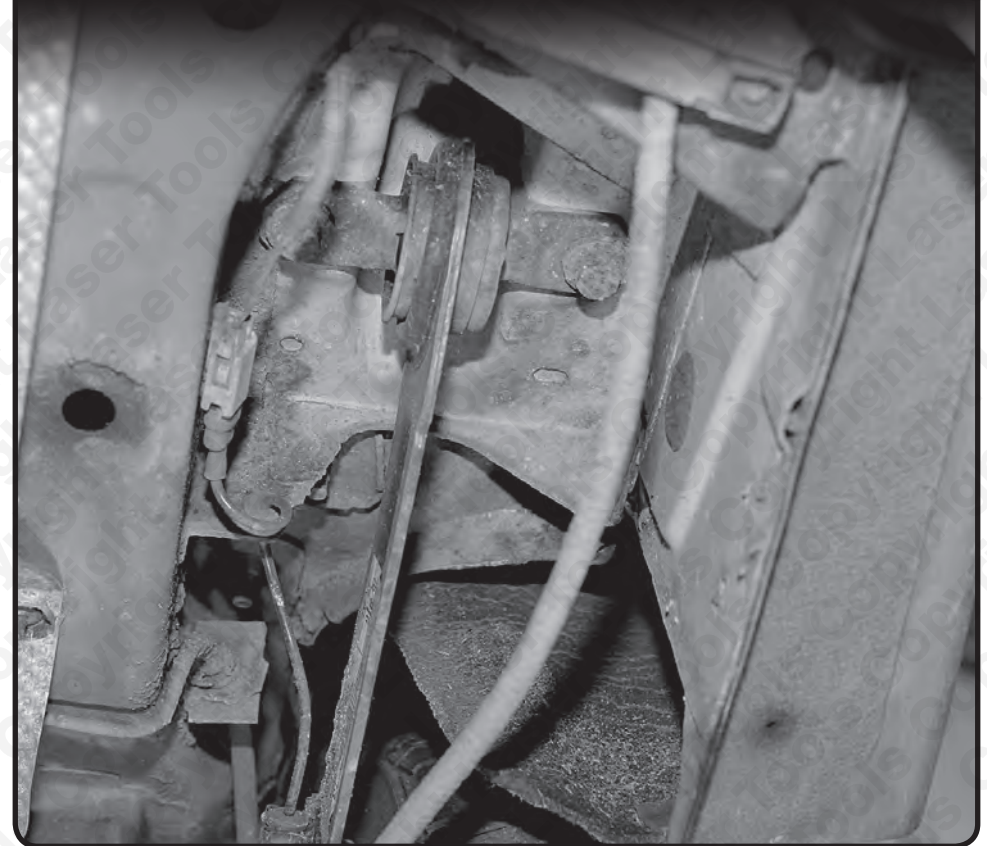


LASER®

Part No. 5178

Universal Bearing and Bush Removal / Installation Tool



www.lasertools.co.uk



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Guarantee

If this product fails through faulty materials or workmanship, contact our service department direct on: +44 (0) 1926 816186. Normal wear and tear are excluded as are consumable items and abuse.

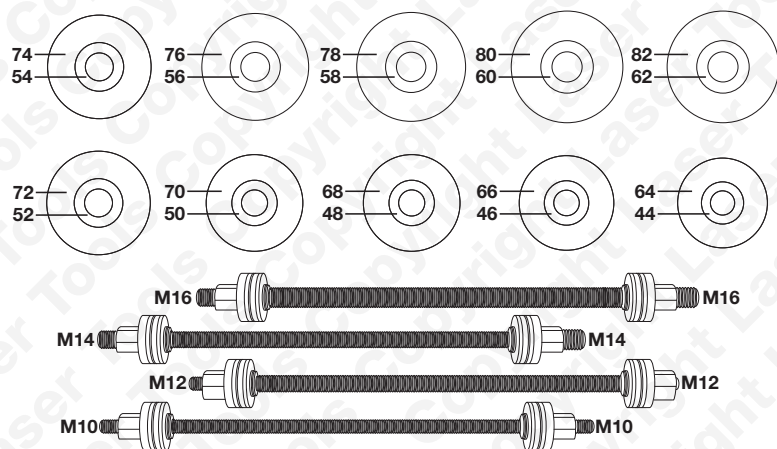
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Plan Layout

20 sleeves included - External dimensions

Smaller sleeves housed beneath large sleeves:



Four threaded bars with thrust nuts are included:

Twenty sleeves are included of different diameters:

Bar Diameter	Thrust Nut Size	Threaded Bar Replacement
M10	17mm	2473
M12	19mm	2474
M14	21mm	2475
M16	24mm	2485

For removing and replacing various suspension bushes and bearings; can be used in situ where there is sufficient access, otherwise suspension arm, etc, can be removed and bush removal performed on the bench. Ideal for the service garage where various combination of tools are required.

Before you start:

If working in situ:

- Have vehicle on lift or jack up and support on axle stands.
- Remove road wheel.
- Ensure that brake hoses are kept away from the work area to avoid damage.
- For procedure refer to vehicle manufacturer's hand book or reputable workshop manual.

Precautions:

- Make sure the vehicle is securely elevated and supported with axle stands (if working in situ).
- Wear suitable eye protection.
- Always grease the threaded bars and thrust nuts before and after every job with a high quality molybdenum disulphide grease.
- On some vehicles Loctite® is applied to the bushes. To check if this is required, refer to your workshop manual.
- If Loctite® is applied, the vehicle should not be used for 24 hours.
- DO NOT USE AIR TOOLS WITH THIS PRODUCT.

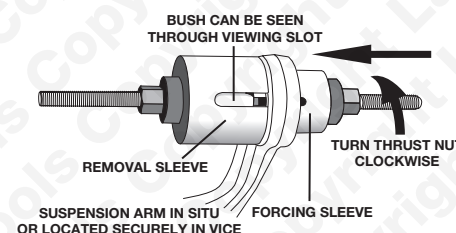
Instructions

Removal:

1. Mark where the old bush sits in suspension arm, etc, to ensure correct position of replacement bush.
2. Choose the thickest threaded bar that will fit through the bush.
3. Lubricate the threaded bar and thrust nuts with a high quality molybdenum disulphide grease.
4. Choose correct size of forcing sleeve to locate on external metal (or plastic) casing of bush. Note: sleeve must be able to pass through suspension arm.
5. Choose correct size of removal sleeve to locate against suspension arm face. Note: removal sleeve must be large enough to accept the bush as it is pushed out.
6. Insert threaded bar through the bush then locate sleeves correctly as described in 4 & 5. Attach the thrust nuts at each end of the threaded bar. Refer to Fig. 1.
7. Align viewing slots on both sleeves so that operator can view bush removal. Make sure sleeves and threaded rod are correctly aligned before tightening thrust nuts.
8. Using a ring spanner and deep socket on a ratchet handle (see thrust nut sizes on table above) tighten the thrust nuts, driving the bush out into the removal sleeve.
9. Unscrew thrust nuts to release sleeves and retrieve bush.

Note: If bush proves difficult / stubborn to remove, centre can be drilled out to accommodate a larger diameter threaded bar.

Fig. 1 Removing Bush



Installation:

1. Fitting the new bush is reverse of removal procedure.
2. Threaded rod and thrust nuts must be cleaned and re-lubricated.
3. Align viewing slots on both sleeves so that operator can view bush replacement. Make sure sleeves and threaded rod are correctly aligned before tightening thrust nuts. Refer to Fig. 2.
4. Steadily tighten thrust nuts to force bush into suspension arm.
5. Take care to ensure that bush is pushed in straight and square.
6. Continue to tighten thrust nuts until bush is in correct position (see point 1 in 'Removal' above).
7. Unscrew thrust nuts to release sleeves and remove threaded rod.

Note: Due to the nature of the task and tool, the threaded bar and thrust nuts are regarded as consumable and not therefore covered by the Tool Connection guarantee. (Replacement threaded bars and thrust nuts are available.)

Fig. 2 Installing Bush

