

## Warning



- Always wear eye protection
- This kit is not suitable for use with any impact tools
- When working in situ ensure the vehicle is securely elevated and supported
- Always lubricate threaded bars before and after use to maintain quality
- Some vehicles require loctite to be applied, refer to user manual to check if required. If applied the vehicle should not be used for 24 hours

- **Kit includes five threaded rods (M10, M12, M14, M16, M18) with thrust nuts and washers, and twenty two press on sleeves of varying size and diameter**

Inside Ø (mm)	Outside Ø (mm)
34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 75, 80	44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 85, 90



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# Universal Bearing & Bush/Press & Pull Sleeve Kit

Part No. 311020



## Introduction

- **Universal tool set for extracting & installing: Silent bearings, hydraulic bearings, bearing bushes, ball bearings, shaft seals, rubber bearings, etc.**
- **Universal application kit, suitable for work on Cars, LCV's & HGV's**
- **Suitable to be used in-situ on car or in general workshop use**

## Removal

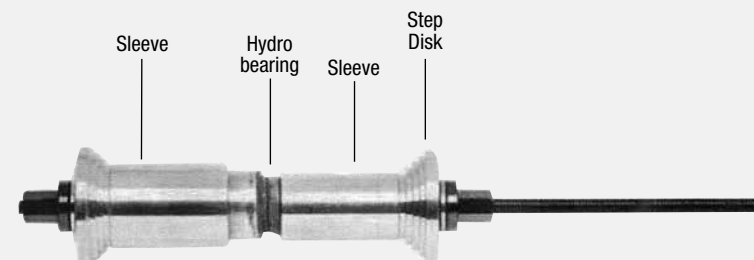
1. Mark place where existing bush sits on suspension arm, to ensure accurate positioning of the replacement bush
2. Pick out the thickest of the threaded bars in the kit that will fit through the bush. Make sure to choose the thickest possible bar
3. Lubricate the threaded bar and thrust nuts with a high quality molybdenum disulphide
4. Choose correct sized forcing sleeve to locate on external metal/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 step disc. Note: Removal sleeve must be large enough to accept the bush as it is pushed out
6. Insert threaded bar through the bush and locate sleeves correctly as described in points 4 and 5. Attach the thrust nuts at each end of the threaded bar.
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 tighten the thrust nuts, driving the bush out into the removal sleeve
9. Unscrew thrust nuts to release sleeves and retrieve bush



## Installation

1. Fitting the new bush is reverse of removal procedure
2. Threaded rod and thrust nuts must be cleaned and relubricated
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
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
7. Unscrew thrust nuts to release sleeves and remove threaded rod

### Application Example with Pulling Spindle



**Warning!** In the case where the hole in the centre of the bush is small in relationship to the outside diameter, it is recommended that the hole be drilled out to enable a large spindle to be used to safeguards damage to the threads

Always use penetrating oil to ease removal of the old bush  
Always lubricate the screw threads with molybdenum disulphide (black grease) before using the tool