

Thank you for purchasing a Sealey product. Manufactured to a high standard this product will, if used according to these instructions and properly maintained, give you years of trouble free performance.



IMPORTANT: READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS AND CAUTIONS. USE THE TOOL CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. PLEASE KEEP INSTRUCTIONS SAFE FOR FUTURE USE.

1. SAFETY INSTRUCTIONS

- WARNING!** Ensure Health and Safety, local authority and general workshop practice regulations are adhered to when using tools.
- DO NOT** use tools if damaged.
- DO NOT** use puller for purposes other than for which it is designed.
- DO NOT** use puller when you are tired or under the influence of alcohol, drugs or intoxicating medicines.
- Maintain tools in good and clean condition for best and safest performance.
- Ensure that a vehicle which has been jacked up is adequately supported with axle stands and that the wheels are chocked, refer to the vehicle manufacturer's service instructions, or a proprietary manual.
- Ensure that work area has adequate lighting.
- Keep children and unauthorised persons away from the work area.
- Wear approved eye protection. A full range of personal safety equipment is available from your Sealey dealer.
- Wear suitable clothing to avoid snagging. Do not wear jewellery and tie back long hair.
- DO NOT** use air tools to operate the force screw.
- When not in use, store puller in a safe, dry childproof area.
- IMPORTANT:** The force screw must be kept well lubricated.

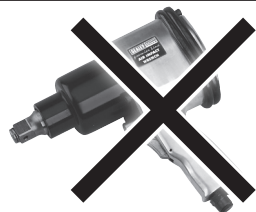
IMPORTANT: This manual is provided as a guide only, refer to the vehicle manufacturer's service instructions, or a proprietary manual, to establish the current procedure and data.

- WARNING!** Failure to comply with these instructions may result in damage to the puller or vehicle and/or personal injury.
- WARNING !** The warnings, cautions and instructions referred to in this manual cannot cover all possible conditions and situations that may occur. It must be understood that common sense and caution are factors which cannot be built into this product, but must be applied by the operator.

ALWAYS KEEP FORCE SCREW WELL LUBRICATED.



DO NOT USE AIR TOOLS



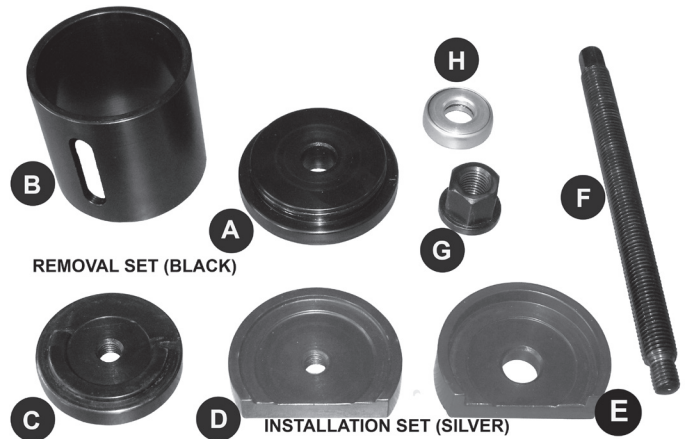
Force screw maximum load 150Nm. Exceeding this load will shorten the life of the force screw. The force screw is considered to be a consumable item and is NOT covered under warranty.

2. INTRODUCTION & APPLICATIONS

Suitable for the removal/installation of the front control arm suspension bush on BMW Mini. Supplied with instructions in carry-case.

Applications:

- One, Cooper, Cooper S (2001 on) R50/R53 Chassis W10/W11/W17.
- Bush OE Number: 31 12 6 757 551



3. OPERATION

NOTE! Pictures taken with the front control arm removed from vehicle for clarity. Refer to the vehicle manufacturer's service instructions, or a proprietary manual to carry this out.

NOTE! These bushes can be secured into the housing with a bonding compound and may be very tough to remove. Maximum torque on the force screw is 150Nm. If greater force is required the bush should be removed with the supplied adaptors using a suitable press.

NOTE! This tool will insert the bush to the correct depth, but before installing the new bush, refer to the vehicle manufacturer's service instructions, or a proprietary manual, to establish the **correct** horizontal alignment/positioning of the bush.

IMPORTANT: This tool is designed to aid removal of the bush.

- We suggest that the area around the bush is thoroughly cleaned.
- The threads of the tool should also be thoroughly lubricated in use.
- **An Impact Wrench must NOT be used with this tool.**
- **Stripped threads and bent thrust cups are not accepted warranty claims on this tool.**

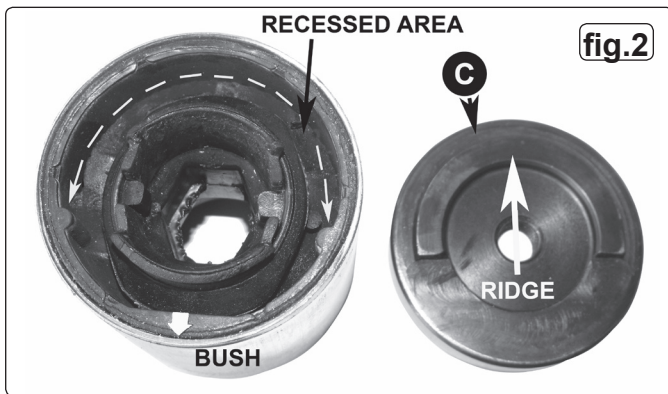
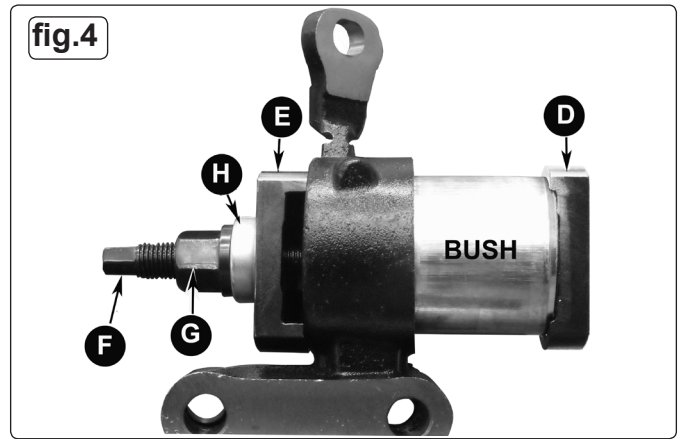
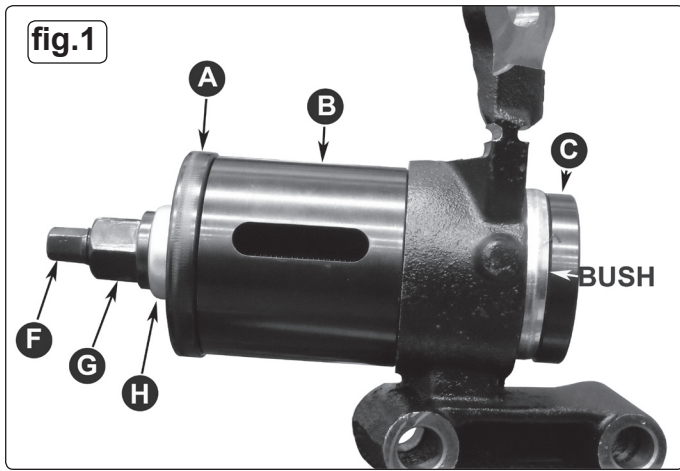
3.1. Removing bush.

3.1.1. Assemble the removal (black) set as in fig.1. Thread the adaptor (C) onto the short threaded end of the force screw (F) with the ridged side of adaptor (C) facing inwards. Pass the force screw (F) through the bush from the rear and position adaptor (C) so that the ridge sits in the recessed area of the bush (fig.2). Position adaptor (B) over the force screw (F), then fit adaptor (A) so that the seal sits inside adaptor (B). Fit the bearing (H) and then thread the nut (G) onto the force screw (F) and wind it up to the adaptor (A). Double check to make sure that everything is aligned.

3.1.2. Using a 24mm deep socket or spanner, turn the nut (G) clockwise. The extractor will start to extract the bush through the front control arm housing. **DO NOT** apply more than 150Nm of torque.

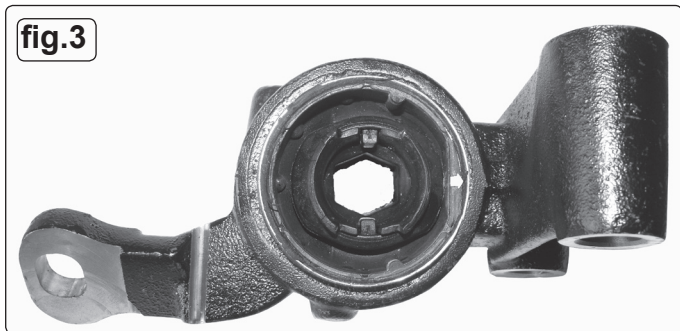
3.1.3. Keep turning until the bush has been extracted all the way out of the front control arm. Take care as the bush and assembly will fall away when the bush is fully removed.

NOTE! If any undue resistance is felt, remove the assembly and check everything is correctly aligned.



3.2. Installing new bush.

3.2.1. Before installing a new bush, clean the inside of the front control arm housing. Prior to installing the new bush, ensure that the small arrow embossed on the bush aligns with the front control arm in the position shown in fig.3. This will ensure correct alignment of the wish-bone on refitting.



3.2.2. Assemble the installation (silver) set on the housing as in fig.4. Adaptor (D) is threaded onto the short threaded end of the force screw (F) with the ridged side facing inwards. Pass the force screw (F) through the bush, through the front control arm housing and position the Adaptor (E) over the force screw (F), fitting it against the front control arm housing. Fit the bearing (H) over the force screw (F), thread on the nut (G) and wind it up to the adaptor (E). Double check to make sure that everything is aligned and that the bush is sitting squarely against the front control arm housing.

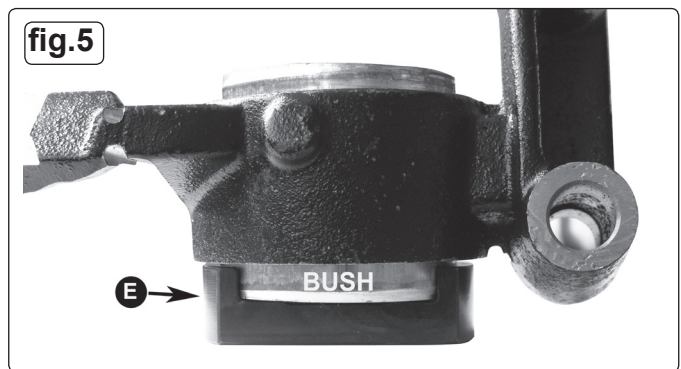
NOTE: It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.

IMPORTANT: No liability is accepted for incorrect use of this product.

WARRANTY: Guarantee is 12 months from purchase date, proof of which will be required for any claim.

INFORMATION: For a copy of our latest catalogue and promotions call us on 01284 757525 and leave your full name and address, including postcode.

- 3.2.3. Using a 24mm deep socket or spanner, turn the nut (G) clockwise. The bush will start to be pulled into the housing. **NOTE!** If any undue resistance is felt, remove the assembly and check that everything is correctly aligned.
- 3.2.4. Continue to turn the nut (G) to install the bush, when the bush reaches the adaptor (E), the bush is fully installed (Fig.5).
- 3.2.5. Disassemble the tool, clean and lubricate before returning the parts to the storage case.
- 3.2.6. Re-fit the wish-bone as per the vehicle manufacturer's service instructions or a proprietary manual.



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