

DRAPER®

INSTRUCTIONS FOR
BMW

Sub Frame Bush Tool

Stock No.64630

Part No.SSK9

IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY TO ENSURE THE SAFE AND EFFECTIVE USE OF THIS PRODUCT.



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GENERAL INFORMATION

These instructions accompanying the product are the original instructions. This document is part of the product, keep it for the life of the product passing it on to any subsequent holder of the product. Read all these instructions before assembling, operating or maintaining this product.

This manual has been compiled by Draper Tools describing the purpose for which the product has been designed, and contains all the necessary information to ensure its correct and safe use. By following all the general safety instructions contained in this manual, it will ensure both product and operator safety, together with longer life of the product itself. All photographs and drawings in this manual are supplied by Draper Tools to help illustrate the operation of the product. Whilst every effort has been made to ensure the accuracy of information contained in this manual, the Draper Tools policy of continuous improvement determines the right to make modifications without prior warning.

1. PREPARING THE SUB FRAME BUSH TOOL

1.1 INTRODUCTION

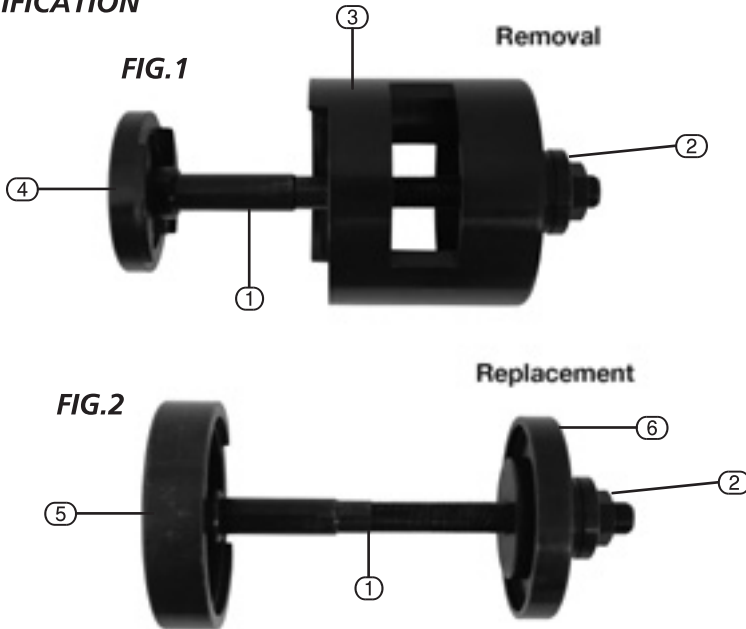
This Rear Sub Frame Bush Tool has been specifically designed for replacing the rear sub-frame mounting bushes on BMW 5 Series (E39) without removing the carrier assembly from the vehicle.

1.2 PRECAUTIONS

- Make sure the vehicle is securely elevated and supported with axle stands.
- Wear suitable eye protection.
- Always grease the thrust nut assembly and centre screw before and after every job.
- On some vehicles a locking compound adhesive is applied to the bushes. To check if this is required, consult your vehicle instruction manual.
- If a locking compound adhesive is applied, the vehicle should not be used for 24 hours.
- **DO NOT USE AIR TOOLS WITH THIS PRODUCT.**
- **IMPORTANT:** Do not use air tools on this kit. Always wear goggles and gloves. Lubricate centre screw and thrust nut bearing before and after use.
- **NOTE:** Due to the forces involved with this tool, the centre screw and nuts must be considered as consumable components.

2. TECHNICAL DESCRIPTION

2.1 IDENTIFICATION



- | | | | |
|---|------------------------------|---|------------------------------|
| ① | Centre screw. | ④ | Removal sleeve - small. |
| ② | Thrust nut bearing assembly. | ⑤ | Installation sleeve - large. |
| ③ | Removal sleeve - large. | ⑥ | Installation sleeve - small. |
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3. OPERATING THE SUB FRAME BUSH TOOL

3.1 INSTRUCTIONS FOR USE

BEFORE YOU START:

- **WARNING:** Refer to vehicle manufacturer's specific instructions for this procedure. Failure to comply with manufacturer's specific instructions may cause damage to components or a potentially fatal accident.
- Prepare the existing bush joint before attempting to remove it.
- Clean off all rust, grime etc and prime with penetrating oil.
- Leave the oil to soak in for quite a while before attempting to remove.
- Inspect the tool for worn and broken parts before use.
- The threads on the centre screw and thrust nut bearing assembly must be lubricated before and after use.
- Care should be taken to align correctly.
- Do not apply excessive force.
- Do not use with an impact wrench or any air tools.
- If all attempts fail to remove the bush, re-lubricate and repeat.
- Wear appropriate safety equipment.
- Use common sense and caution at all times.

3.2 REMOVAL

1. Support vehicle on axle stands paying particular attention to acceptable safety precautions.
2. A wooden block or suitable wedge will be required to hold down the carrier to allow access.
3. Note the position and alignment of the existing bush in the carrier.
4. Lubricate the centre screw and thrust nut every time.
5. Assemble the tool as Fig.1.
6. Locate ④ on top of the bush.
7. Screw ① up through the bush and into ④.
8. Attach ③ onto ① at the bottom of the bush.
9. Attach ② on to ①.
10. With a 24mm spanner or socket turn ② slowly, gradually forcing the old bush into the receiving sleeve.

3.3 REPLACEMENT

1. Liberally lubricate the centre screw and thrust nut before assembly.
2. Lubricate the outside of the new bush.
3. Assemble as Fig.2.
4. Locate ⑤ on the top of the axle carrier.
5. Screw in ①.
6. Check alignment marks on ⑥ with the new bush.
7. Attach ② onto ①.
8. Using the 24mm deep socket or spanner nut, gradually turn clockwise to drive the bush into the bush housing.

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