5977

LASER®

Rear Suspension Bush Tool

Range Rover L322 2003-2012,
Range Rover Sport,
Discovery 3 and 4

Instructions

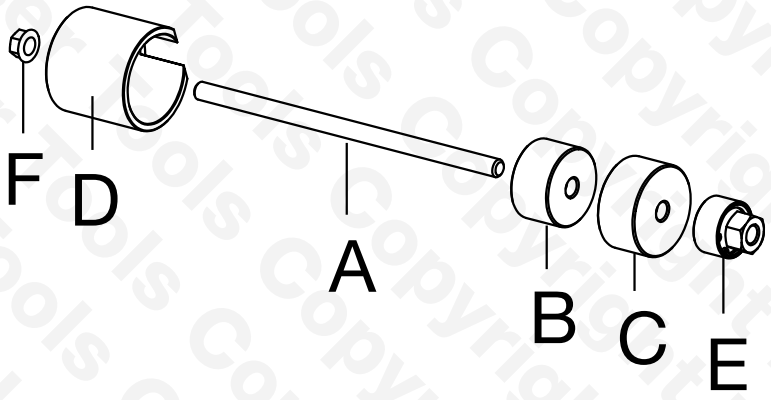
Introduction

This bush tool has been developed to remove and refit the rear suspension lower hub bush with the minimum of dismantling required.

Being able to perform this task on the vehicle saves considerable time over the more traditional use of a workshop press and the requirement that the hub be completely removed.

For reference, the 5977 bush tool (OEM equivalent 204-516) has been specifically designed to work with OEM bush RBK500220.

Components



Items A and E are considered consumable items.

Note: Max. safe working torque is 80Nm.

Ref.	OEM Ref.	Description
A		Force Screw M12 (Consumable Part No. 1319)
B	204-516	Extraction Cup
C	204-516	Installer Cup
D	204-516	Support Cup
E		M12 Nut/Bearing Assembly (Consumable Part No. 2138)
F		M12 x 1.75mm Nut

Applications

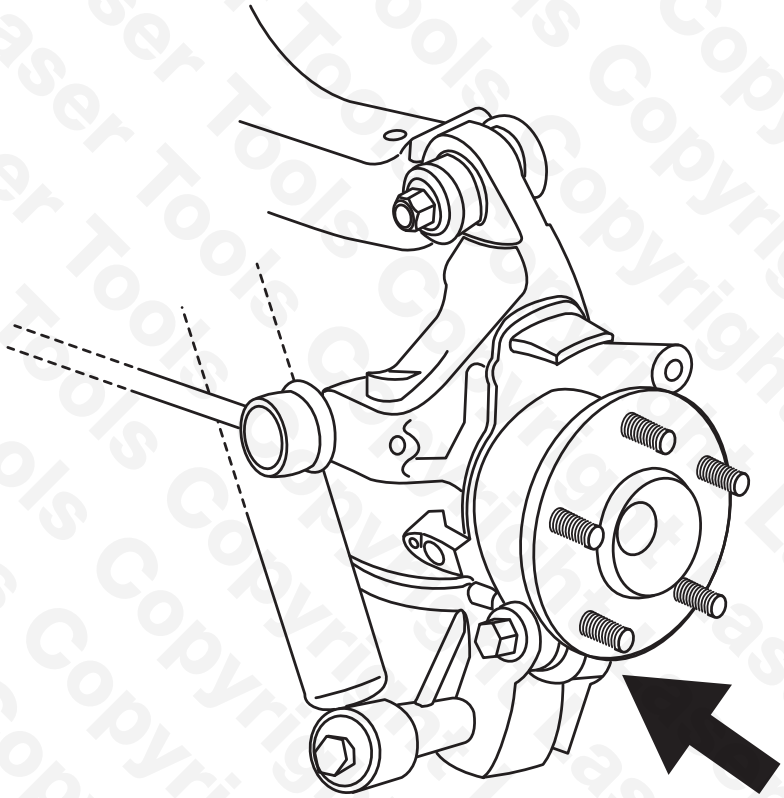
Range Rover L322 (2003 - 2012).

Range Rover Sport (from 2005).

Discovery 3 and 4 (from 2004).

Instructions

Location Rear Suspension Lower Hub Bush



Instructions

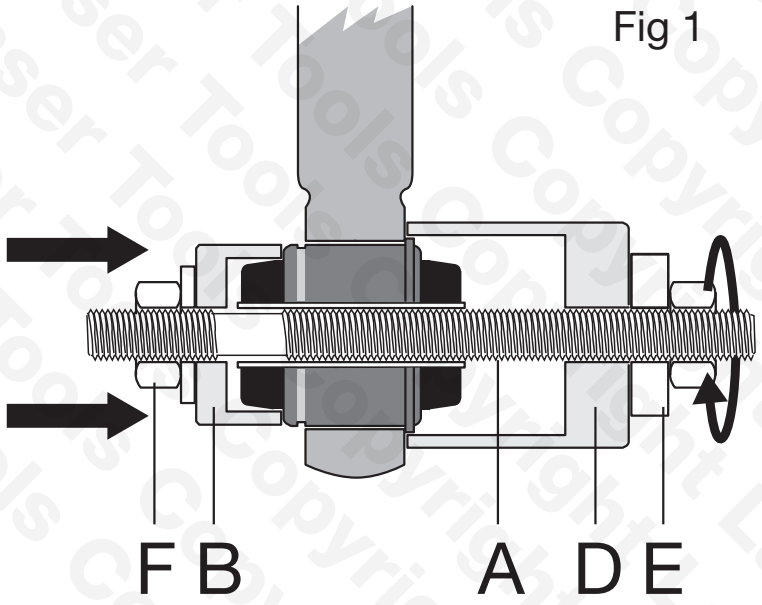
Before You Begin

- You must refer to the manufacturer's service instructions or documentation to establish the correct procedures for removing and installing the rear suspension lower hub bush. The following notes and diagrams are provided as a guide only. No liability is accepted for incorrect use of this product.
- Always ensure the tool's force screw (A) and nut/bearing assembly (**E**) are well lubricated with Molybdenum Disulphide grease. **Do not apply a torque exceeding 80Nm or damage will result**. For this reason the force screw and nut assembly are considered consumable.
- During service the bush securing bolts can become corroded into the centre of the bush. It is recommended that a heat induction tool (e.g. Laser 5834) is used to heat the bolt prior to removal to help break the corrosion. If possible one week before dismantling the bush, spray the bolts with a high quality penetrating oil to aid dismantling.
- Due to the bush design, the 5977 cup wall thicknesses have had to be kept very thin. **Always** ensure the working area is properly cleaned and free from dirt and corrosion. Ensure that the cups are correctly aligned to prevent damage to the tool. Any damage due to misalignment cannot be warranted.

Instructions

Extracting The Existing Bush

1. Mount the vehicle on a ramp with the wheels free.
2. Remove relevant road wheel.
3. Remove tie-rod.
4. Position a jack or similar supporting device under the damper mounting bracket to support the lower arm.
5. Ensure the area around the bush are clean and clear of salt, dirt, corrosion, etc, and spray with penetrating oil.
6. Remove the nut and bolt securing lower arm to hub.
7. Lower the support jack and release hub from lower arm to gain access to the bush.
8. Remove and discard circlip.
9. Remove lower bolt securing the brake disc backplate.

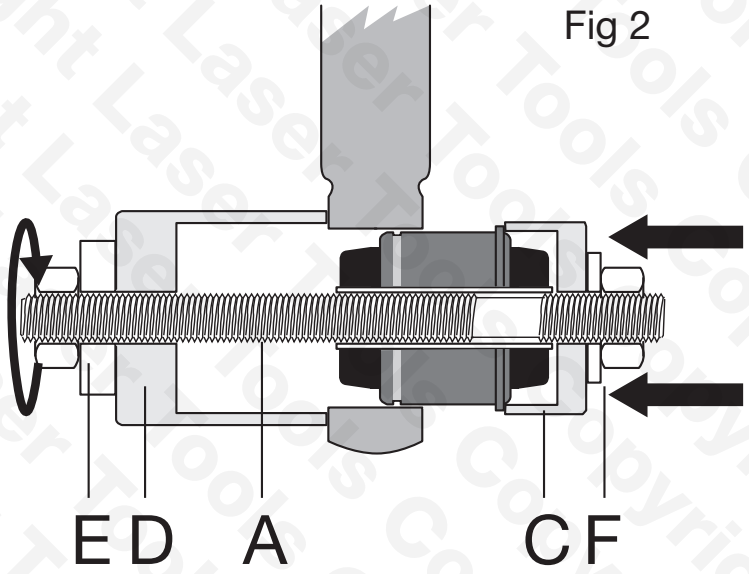


10. Assemble the tool as illustrated in Fig 1; ensure the flat/cut-out in support cup (**D**) is facing brake back plate. Turn the nut/bearing assembly (**E**) so that the existing bush is pulled out into the support cup (**D**). Ensure that all components remain straight and aligned or damage will result. 80Nm maximum torque applied to nut/bearing (**E**).

Instructions

Inserting The New Bush

Fig 2



1. Clean bush location in hub.
2. Refer to Fig 2 and assemble the tool as illustrated, with the circlip groove on the bush facing towards the rear. Important: ensure all components are correctly aligned and remain aligned as the load is applied to the force screw. 80Nm maximum torque applied to nut/bearing (**E**).
3. When bush is fully home fit a new circlip.
4. Refit bolt securing the brake disc backplate.
5. Clean lower arm and the hub mating faces.
6. Lift hub to lower arm, fit nut and bolt (recommend new) and tighten to 250Nm.
7. Refit tie rod.
8. We advise that the wheel alignment is checked.

Precautions

- Always lubricate the threaded force screw (**A**) and nut/bearing (**E**) with Molybdenum Disulphide grease before using the tool. Keep force screw threads clean and free of dirt and debris.
- Do not use air and/or impact tools with this equipment. This will void the warranty.
- Always refer to manufacturer's documentation before commencing the job.
- Do not work on or under a vehicle supported only by a jack. If lifting the vehicle with a jack it must be securely supported on safety axle stands.

Our products are designed to be used correctly and with care for the purpose for which they are intended. No liability is accepted by the Tool Connection for incorrect use of any of our products, and the Tool Connection cannot be held responsible for any damage to personnel, property or equipment when using the tools. Incorrect use will also invalidate the warranty.

If applicable, the applications database and any instructional information provided has been designed to offer general guidance for a particular tool's use and while all attention is given to the accuracy of the data no project should be attempted without referring first to the manufacturer's technical documentation (workshop or instruction manual) or the use of a recognised authority such as Autodata.

It is our policy to continually improve our products and thus we reserve the right to alter specifications and components without prior notice. It is the responsibility of the user to ensure the suitability of the tools and information prior to their use.

Safety First. Be Protected.

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