

LASER[®]

Part No. 5978

Rear Suspension Upper Hub Bush Tool

Range Rover L322 (2003-2012)

Instructions

(for upper bush)



www.lasertools.co.uk

Introduction

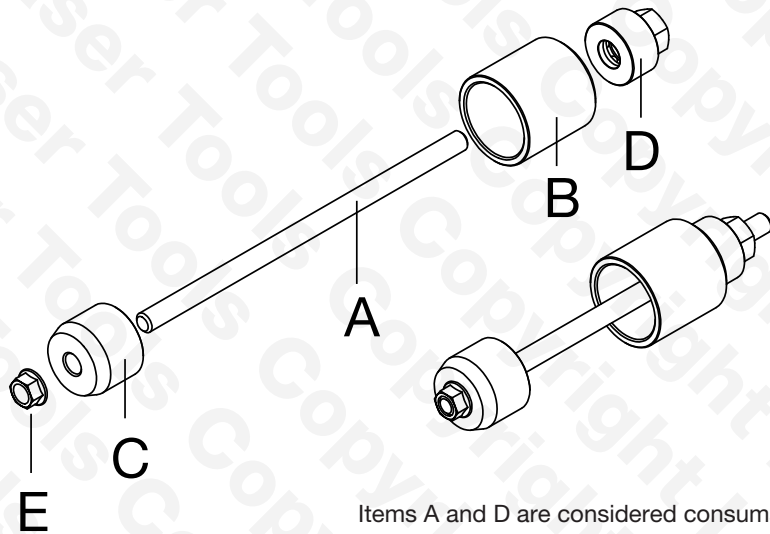
This bush tool has been developed to allow the technician to remove and refit the rear suspension top knuckle rose bush with the minimum of dismantling required.

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 5978 bush tool (OEM equivalent 204-515) has been specifically designed to work with OEM bush RHF000260.

Use with Ratchet Ring Spanner - Flexi Head 24mm (Part No. 5753).

Components



Items A and D are considered consumable items.

Note: Max. safe working torque for item A is 80Nm.

Ref.	OEM Ref.	Description
A		Force Screw M12 - (consumable Part No. 1319)
B	204-515	Large Shell
C	204-515	Small Cup
D		M12 Nut/Bearing Assembly - (consumable Part No. 1803)
E		M12 x 1.75mm Nut

Applications

Manufacturer	Model	Year
Range Rover	L322	2003 - 2012

Always refer to the website for most up to date applications:
www.lasertools.co.uk/product/5978

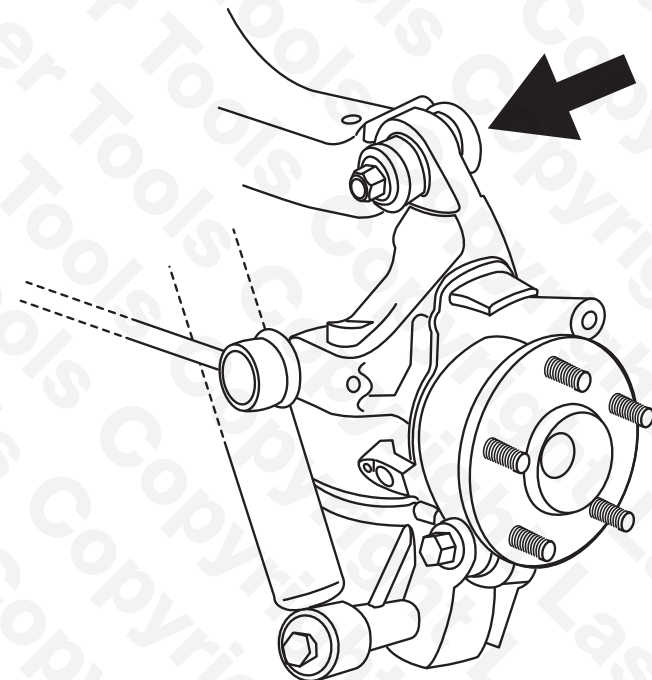
Instructions

The following instructions are for guidance only. Please refer to OEM derived data such as the vehicle manufacturers' own data or Autodata.

The use of this tool is purely down to the user's discretion and The Tool Connection Ltd. cannot be held responsible for any damage caused what so ever.



Location Rear Suspension Top Knuckle Bush:



Instructions

Before You Begin:

- Be aware that the rear suspension camber adjustment is controlled by the position of this bush and the relationship of the hub/knuckle to the upper arm. The rear suspension geometry must be checked and adjusted after fitting a new bush.
- You must refer to the manufacturer's service instructions or documentation to establish the correct procedures for removing and installing the rear suspension top knuckle 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 force screw (A) and nut/bearing assembly (D) 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 (eg, 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.

Instructions

Instructions for Extracting the Existing Bush:

1. Mount the vehicle on a ramp with the wheels free.
2. Remove relevant road wheel.
3. Carefully measure the position and protrusion of the existing bush and record for comparison when fitting the new bush.
4. Clearly reference-mark the radial position of the eccentric washer in relationship to the suspension arm.
5. Release ABS sensor lead from upper arm.
6. Remove Allen screw that secures the brake pipe.
7. Position a jack or similar supporting device under the damper mounting bracket to support the lower arm when the hub is released from the upper arm.
8. Remove the top bush mounting bolt and separate the hub/knuckle from the top arm.
9. Ensure the bush and the area around the bush are clean and clear of salt, dirt, corrosion, etc, and spray with penetrating oil.

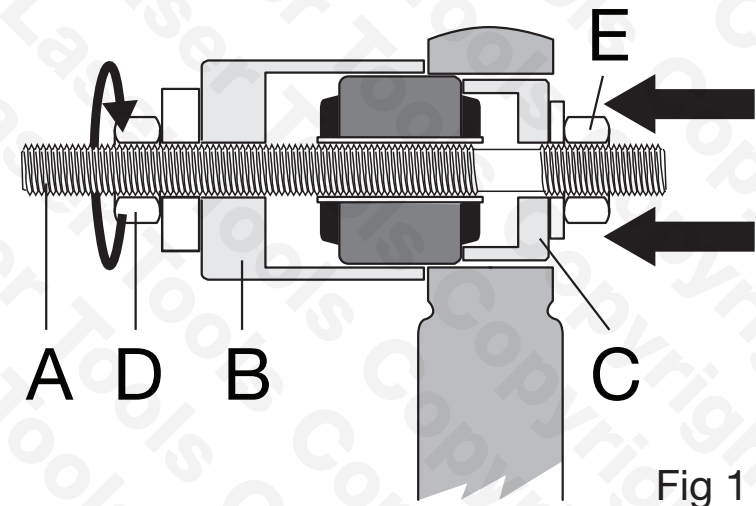


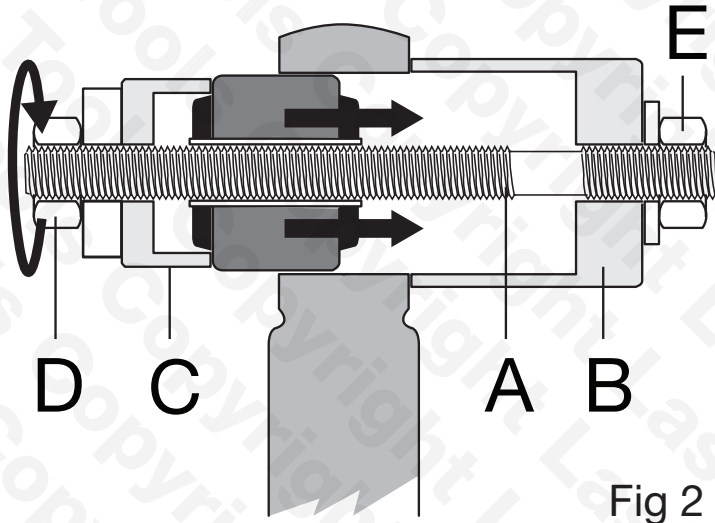
Fig 1

10. Assemble the tool as illustrated in Fig 1 and turn the nut/bearing assembly (D) so that the existing bush is pulled out into the large shell (B).

Instructions

Instructions for Inserting the New Bush:

1. Clean bush location in hub/knuckle.
2. Refer to Fig 2 and assemble the tool as illustrated, with the chamfer on the bush facing towards the rear.
3. Turn the nut/bearing assembly (D) so that the new bush is pressed in to the knuckle/hub.
4. Refer to the previously recorded measurements to set the correct position of the new bush.
5. Reassemble knuckle/hub back onto the top arm. It is recommended that a new securing bolt is fitted.
6. Align the eccentric to the reference mark and lightly tighten.
7. Refit the Allen screw to secure the brake pipe (tighten to 5Nm).
8. Secure the ABS sensor lead.
9. Fit road wheel and lower vehicle.
10. Check and adjust the wheel alignment before tightening the bolt securing upper arm to hub/knuckle (refer to manufacturer's documentation for tightening torque — typically 165Nm).



Precautions

- Always lubricate the threaded force screw (A) and nut/bearing (D) 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.



Safety First. Be Protected.

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.



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When you have finished with this product please recycle it

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Guarantee



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