

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.**

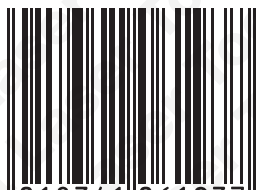
#### Guarantee

If this product fails through faulty materials or workmanship, contact our service department direct on: **+44 (0) 1926 818186**. Normal wear and tear are excluded as are consumable items and abuse.



Distributed by The Tool Connection Ltd

Kineton Road, Southam, Warwickshire CV47 0DR  
T +44 (0) 1926 815000 F +44 (0) 1926 815888  
info@toolconnection.co.uk [www.toolconnection.co.uk](http://www.toolconnection.co.uk)



5 018341 061937 >

# LASER<sup>®</sup>

6193

## Hub Bush Remover/Installer Land Rover

### Instructions



## Rear Suspension Remover / Installer Upper Knuckle Bush Tool - Land Rover Discovery 3 & 4 plus Range Rover Sport

Developed to remove and refit the rear suspension top knuckle 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 that requires the hub to be completely removed.

### TOP TIP:

It has been noted during testing that the suspension bolts are often corroded into the centre of the bush, for this reason we recommend the use of a heat inductor type tool to heat up the bolt prior to removal to help break the rust that holds the bolt. (See **Laser Tool 5834**).

If possible one week prior to dismantling the vehicle, spray all bolts with penetrating oil to aid dismantling.

Designed specifically to work with OEM bush RHF500100.

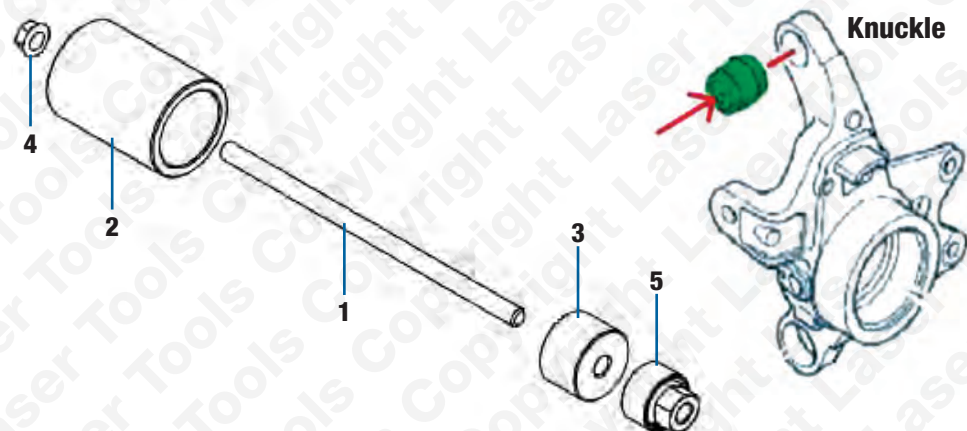
### Components

Ref	Description
1	M12 Force Screw - Part No. 1319
2	Receiver Cup
3	Extraction Cup
4	M12 Nut x 1.75
5	M12 Nut Assembly – Part No. 1803

Always ensure the force screw and nut assembly 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.



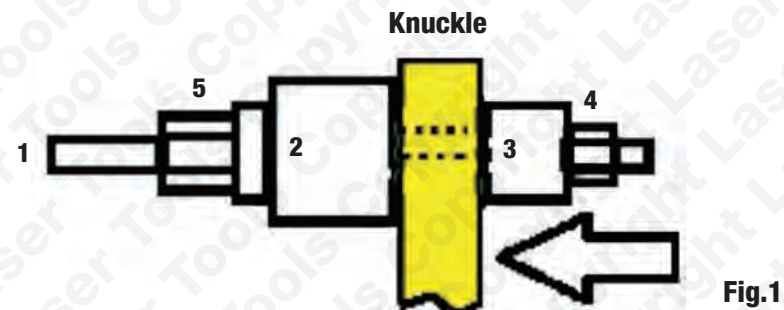
### Preparation

**IMPORTANT: ENSURE THE FORCE SCREW IS WELL LUBRICATED WITH MOLYBDENUM DISULPHIDE GREASE.**

1. It is advised that any mounting bolts should be sprayed with penetrating oil prior to dismantling.
2. Mount the vehicle on a ramp, wheels free.
3. Measure protrusion of old bush and record for comparison
4. Remove relevant wheel
5. Remove the top bush mounting bolt and separate the knuckle from the top arm.
6. Ensure the bush and the area around the bush is clean and sprayed with penetrating oil.

### Instructions for Use: Extraction

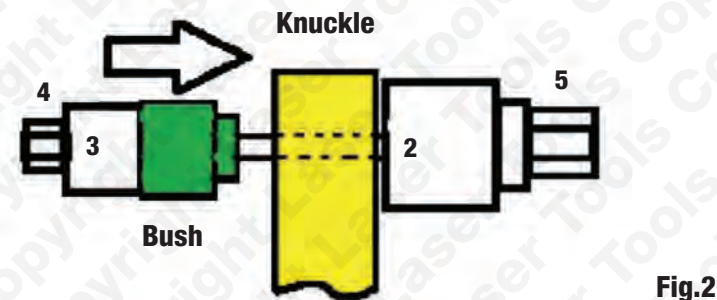
For extraction set the tool as shown in Fig.1 so that the old bush pulls out into component 2.



### Instructions for Use: Insertion

For insertion set the tool as shown in Fig.2.

The top bush used is a rose joint type bush and must protrude evenly from both sides of the knuckle/hub.



- The Tool Connection will not accept responsibility for damage or personal injury caused by the use of this kit how so ever caused.