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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.

7298_Instructions_V1

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.



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LASER[®]

7298

Front Lower Ball joint Tool Land Rover

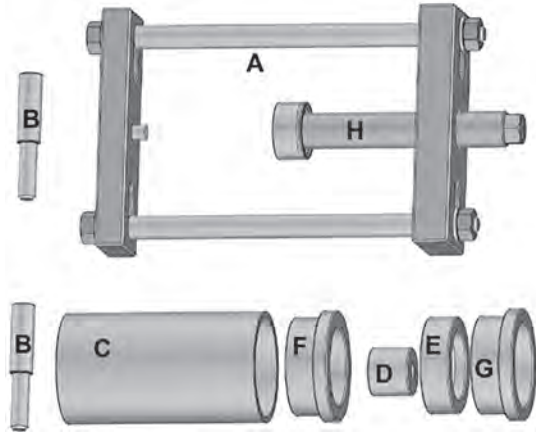


This kit has been design specifically to remove and fit the bottom ball joints fitted to the Land Rover Discovery 3-4 series and Range Rover Sport. The kit allows the bottom ball joint to be replaced and fitted without removing the lower wishbone assembly.

- Equivalent to OEM 204-531.
- For the use on the vehicle.
- **Always lubricate the force screw with Molybdenum Disulphide Grease.**
- Replacement force screw available - Part No 1682.

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Components



Ref	OEM	Description
A		Ball joint remover
B		Support bar extensions
C	204-531	Large Cup
D		Ball joint thrust boss
E		Location cup
F		Large Top hat
G		Small Top hat
H		Force Screw (Replacement 1682)

Applications

Make	Model	Year
Land Rover	Discovery 3-4	2004-2017
	Range Rover Sport	2005-2013

The following instructions are for guidance only. Please refer to OEM derived data such as the vehicles manufactures own data or Autodata. The use of this kit is purely down to the user's discretion and the Tool Connection Ltd cannot be held responsible for any damage caused what so ever.



Safety Warning - Please Read

- Personal protection and safety equipment must be used at all times
- Eye protection and protective gloves must be worn when using these tools
- Misuse of tools is unsafe, and can cause component damage,
- Remove damaged tools from use
- Store in a dry place when not in use

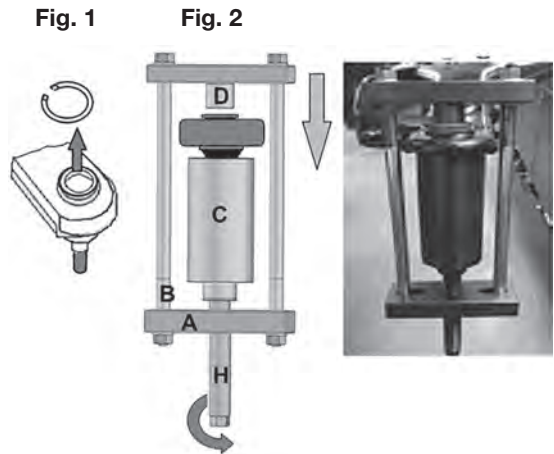
Preparation

- With the vehicle raised and suspension on full droop remove the Wheels. (Ensure vehicle is properly supported).
- Remove drive shaft hub nut.
- Disconnect and separate bottom ball joint.
- Swing hub out of the way and support with suitable strap to the chassis.
- Note The threaded force screw must be kept clean and lubricated with Molybdenum Disulphide grease. Failure to adequately lubricate the force screw and frame may result in damage which will affect the product warranty.

Instructions

Ball Joint Removal

- Remove the securing circlip from the bottom ball joint **Fig 1**.
 - Lubricate the force screw with the Molybdenum Disulphide grease provided along its full threaded length.
 - Assemble the frame work (**A**) using extension support bars (**B**). Fully tighten all frame work fixings.
 - Place the assembled frame over the arm and install cup **C** and thrust boss **D** as shown in **Fig 2**.
 - Hand tighten the force screw and check alignment.
 - Continue to tighten the force screw using hand tools only to push the ball joint out.
- NOTE: the joint will be pushed down wards out of the arm.



Ball Joint Installation

- Check the force screw is free from dirt and is lubricated with clean Molybdenum Disulphide grease.
- Measure the diameter of the new ball joint and fit appropriate sized adaptor (**F**) or (**G**) into the large cup as shown in Fig 3.
- Push the new ball joint into aperture in the lower arm by hand and Place the location cup (**E**) on the top of lower arm as shown in Fig 3.
- Fit the frame around lower arm and install the large cup. Hand tighten the assembly.
- Check the alignment of frame work and installation cups.
- With the threaded spindle lubricated, Tighten the force screw to install the ball joint.
- Fit new ball joint clip.

