

Kamasa-TOOLS®

Rear Suspension
Bush Tool

Volvo
Ford

K 10235



INTRODUCTION

This tool is designed specifically to remove and fit the rear trailing arm suspension bush with the arm on the vehicle, removing the necessity to disconnect the brake lined, brake cables, etc. It is not even necessary to remove the wheels. This tool does not require mounting plates to be removed for either removal of fitting

Using a specially developed force frame and coarse-pitch force screw, the bush tool provides an engineered solution that saves significant time and removes the need to use a workshop press.

SAFETY AND PRECAUTION

Read this manual completely before using the tool.

- Make sure the vehicle is safely supported before the work starts.
- Always wear safety goggles, safety hat and safety boots when working under a car.
- Always follow instructions provided by the vehicle manufacturer regarding vehicle specific handling and safety measures.
- Keep this equipment out of reach for children.

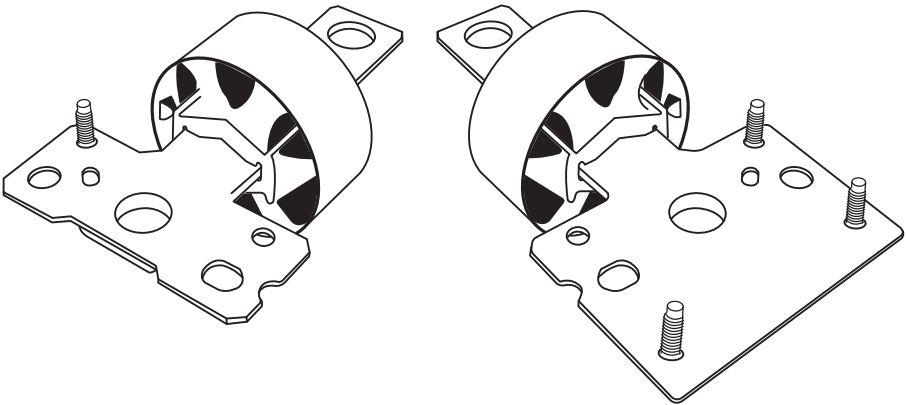
Kamasa Tools does not take responsibility for damage or injuries caused by unsafe use, lack of maintenance or use together with components not designed to be used with this tool.

APPLICATIONS

Make	Model	Year
Ford	Galaxy	2006-2010
	Mondeo	2007-
	S-Max	2006-
Volvo	S60 II	2010-
	S80 II	2006-
	XC60	2008-
	XC70 II	2007-
	V60	2010-
	V70 III	2007-

TYPE OF BUSH

Rear lower trailing arm bushes on both sides of rear suspension (Volvo and Ford examples illustrated).



OPERATING INSTRUCTIONS

PREPARATION

- With the vehicle on a wheel free ramp, support the relevant wheel with a suitable stand (transportation jack for example)
- Remove lower shock absorber mounting bolt (A), Fig 1
- Remove lower outer track control arm fixing as shown (B)
- Remove the trailing arm bush mounting as shown (C)
- Unclip the brake pipes/cables from the arm
- Lower the arm just enough to be able to fit the bush tool.
- Fit the bush tool with the force screw hex (8) facing to the outside of the vehicle.

Note: Due to the shape of the bush, it can only be removed and inserted in the directions indicated in Fig 2.

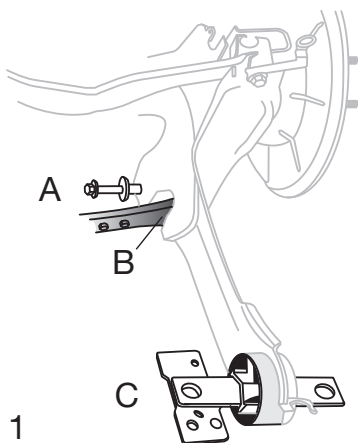


Fig 1

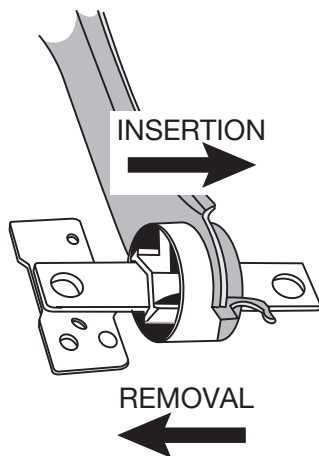
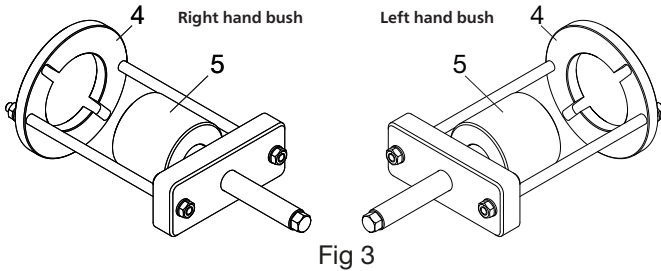


Fig 2

BUSH EXTRACTION AND REMOVAL

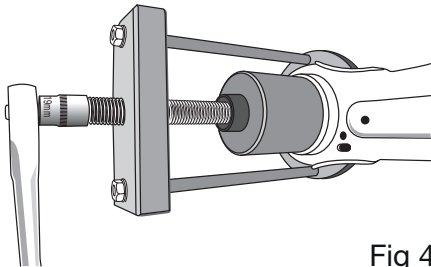
Note: the new bush must be positioned correctly in all directions. For this reason it is a good idea to note and mark the orientation of the old bush.

- Ensure the suspension arm is free from heavy corrosion or dirt. Remove any hard rust and dirt that will not allow the bush tool to fit squarely on the arm.
- Ensure the force screw and the thread in the plate is clean and lubricated with molybdenum disulphide grease.



Note: Assemble component 4 as shown according to the side of vehicle being worked on.

- Using the components shown in **Fig 3**, mount the bush tool on the arm as shown and push out the old bush by turning the force screw in a clockwise direction as shown in **Fig 4**
- Do not use a power, impact or air gun on the bush tool



- Continue increasing the load until the bush is pushed out. Be ready to catch it.

Note: Always wear safety goggles, safety hat and safety boots when working under a car

FITTING THE NEW BUSH

- Clean the suspension arm to accept the new bush, ensure the bush is correctly positioned and the correct bush is to be used.

Note: The bushes are handed left and right

- The new bush must be positioned correctly in all directions; for this reason, ensure the new bush is positioned in the same direction as the old bush came out from. The use of the stepped split ring (2) ensures the new bush is inserted to the correct depth.
- To fit the new bush, first assemble the tool components shown in **Fig 5** and ensure the force screw is clean and well lubricated.

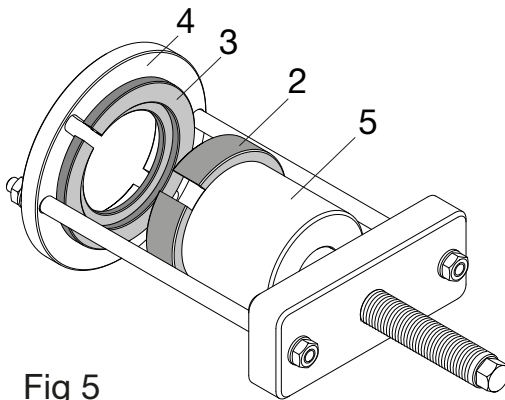


Fig 5

- Assemble the bush and bush tool components on the arm as shown in **Fig 6**. Remember the bush must be pushed in by the press frame support ring (4) and split washer ring (3) in the direction shown.

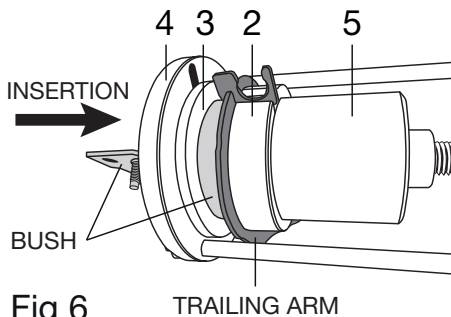


Fig 6

Note: Align the bush as shown in Fig 7.

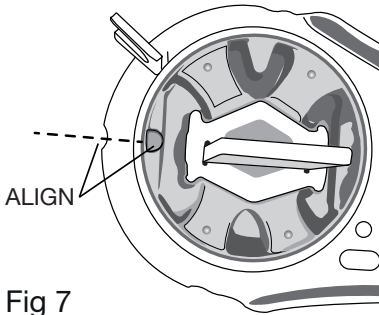


Fig 7

Note: For method of mounting and demounting the press frame when working on the Volvo's left side bush with double size mounting plate, see Fig 8 and Fig 9. Hold the tool frame at an angle and use the slots built into the press frame support ring (4) to slide past the bush mounting plate.

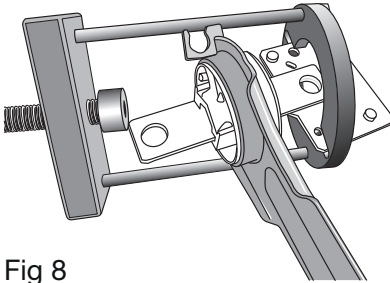


Fig 8

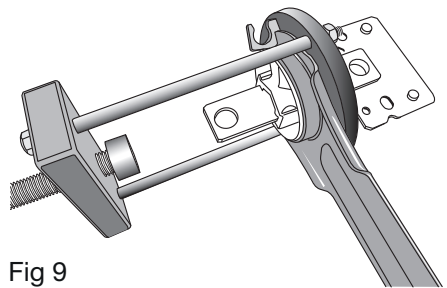
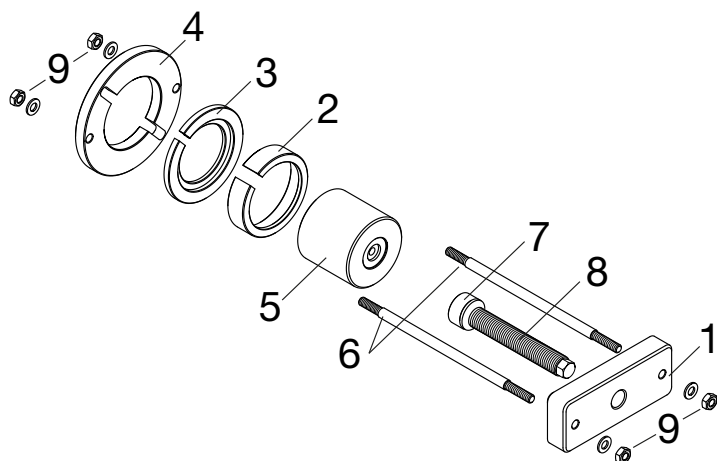


Fig 9

MAINTENANCE

- After use, clean all components thoroughly, particularly ensuring that the force screw (8) threads are clean and free from swarf, rust and grit.
- Store tool and components in a dry place.
- Do not use the bush tool if any parts are damaged or missing; this may cause failure and/or personal injury.

PARTS LIST



Note: Always grease the threaded bar. If not properly greased, threads will be demolished and the warranty will not cover that type of damage.

Pos.	Stock No.	Description
1	KR 10235-1	Press frame top plate
2	KR 10235-2	Split stepped ring
3	KR 10235-3	Split washer ring
4	KR 10235-4	Press frame support ring
5	KR 10235-5	Thrust cup
6	KR 10235-6	Press frame support
7	KR 10235-7	Thrust bearing
8		Force screw assembly M24
9		Nuts M10

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