

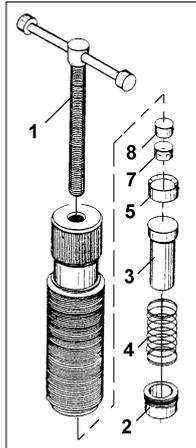
HYDRAULIC RAM UNIT

MODEL NO: **PS990**

1. INTRODUCTION

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The PS990 Hydraulic Ram Piston will fit all Sealey hydraulic puller sets and is also suitable for use with other popular makes of hydraulic gear pullers. Screw mechanism converts power to 10 Ton ram head with enough force to remove most stubborn bearings, pulleys and shafts.



2. CONTENTS & PARTS

Part No.	Description
PS982/8002	Repair Kit (Items 1,2,3,4,5,7,8)
PS982/OIL	15grms of oil for a single refill.

Issue No.:-4

Issue Date:-12/05/05

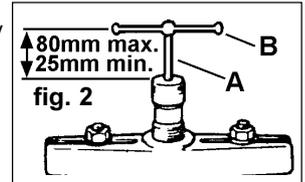
3. SAFETY INSTRUCTIONS

- ❑ **WARNING!** Ensure all Health and Safety, local authority, and general workshop practice regulations are strictly adhered to when using tools.
- x **DO NOT** use ram or associated tools if damaged or worn.
- ✓ Maintain the ram and associated tools in good and clean condition for best and safest performance.
- ✓ Check the specification of the puller tool you will be using to ensure that it is rated to match the force that the ram can apply.
- ✓ Ensure all threads are clean and well lubricated.
- ✓ Always check that the ram is correctly assembled into the puller being used and is square with the workpiece.
- ✓ If working on a raised vehicle, ensure that it is adequately supported with axle stands, ramps, etc. as appropriate.
- ✓ Wear suitable clothing to avoid snagging. Do not wear jewellery. Tie back long hair.
- ✓ Wear approved eye protection. A full range of personal safety equipment is available from your Sealey dealer.
- ✓ Where possible shield workpiece with canvas or similar to provide protection against failed parts.
- x **DO NOT** use any tool or lever to turn the ram tommy bar, use hand effort only.
- x **DO NOT** hit workpiece, or ram, with a hammer if workpiece has not moved with maximum puller force applied. Use a larger capacity puller.
- ✓ Account for all tools and parts being used and do not leave them in or on the vehicle.

4. INSTRUCTIONS FOR USE

- ❑ **WARNING!** Ensure that you read, understand and apply the safety instructions in Section 3. **IMPORTANT:** Always refer to the vehicle manufacturer's service instructions, or proprietary manual, to establish the correct procedure and data. These instructions for use are provided as a guide only.

- 4.2 Check that the specification of the puller tool you will be using is compatible with the ram unit.
- 4.1. Confirm that the workpiece is retained by interference fit (parallel or taper) only.
- 4.2. Assemble the ram into the chosen puller, (see typical pullers as shown in fig.1), and adjust T-handle (Fig. 2.A) so that tommy bar (fig.2.B) is approximately 80mm (3") above top of ram, see fig.2.
- 4.3. Fit the puller to an appropriate position behind workpiece and then screw the ram **body** down until it makes contact with the end of the shaft from which the workpiece is to be pulled. (If the shaft has a centre position machined into its end surface use a matching centre adaptor to locate centrally with the shaft.
- 4.4. Turn T-handle clockwise, by hand only, to pull workpiece from shaft.
- 4.5. Do not screw T-handle in further than 25mm (1") from end of the ram (see fig.2). If workpiece requires additional movement then unscrew T-handle to 80mm from end of ram, screw ram body down so that centre adaptor again contacts shaft and then continue to draw workpiece up shaft.



IMPORTANT: The maximum safe load for the puller can be achieved by hand effort alone. **The use of tools or levers on the tommy bar to increase the load will damage the puller and may result in injury.** Such misuse will also invalidate the warranty. If the workpiece does not move, with maximum puller force applied, **DO NOT** hit it, or the puller, in an attempt to jar it free. Damage to puller/workpiece and personal injury may result. Use a larger capacity puller.

