

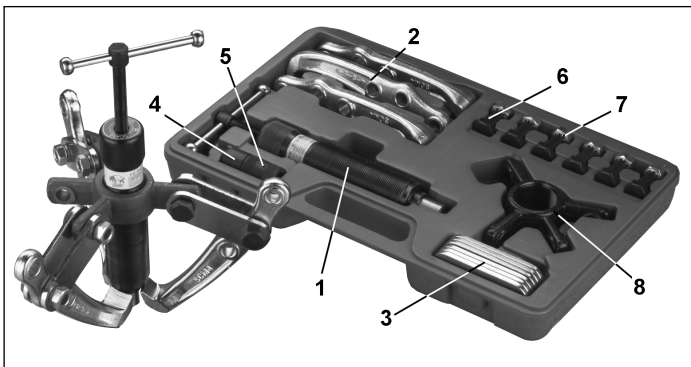
HYDRAULIC PULLER SET

MODEL NO: **PS981**

1. INTRODUCTION

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The PS981 consists of 3 three-position puller legs with link plates and a forged steel 2 and 3 leg yoke operated by a 10 ton hydraulic ram. The ram is also compatible with sets PS982 and PS983. The combination of three-position legs and link plates gives maximum reach and workpiece diameter of 250mm, enabling the set to be used for a large range of gears, bearings and pulleys.



2. CONTENTS & PARTS

Item	Part No.	Description	PARTS LIST	
1	PS990	Ram 10ton	Issue Date:-	12/05/05
2	PS981/02	Leg, Combination, 3 off	Issue No.:-	3
3	PS981/03	Plate, Steel, 6 off		
4	PS981/04	Centre Adaptor		
5	PS981/05	Extension (for centre adaptor)		
6	PS981/06	Screw and Nut Set		
7	PS981/07	Washer, 6 off		
8	PS981/08	Support, Ram		
	PS982/OIL	15grms of oil for single refill.(not shown, not supplied)		
	PS982/8002	Repair Kit for PS990 Ram.(not shown, not supplied)		

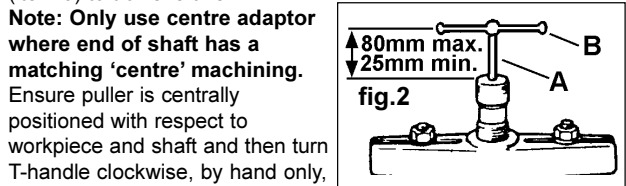
3. SAFETY INSTRUCTIONS

- ❑ **WARNING!** Ensure all Health and Safety, local authority, and general workshop practice regulations are strictly adhered to when using tools.
- x **DO NOT** use tools if damaged or worn.
- ✓ Maintain the tools in good and clean condition for best and safest performance.
- ✓ Ensure all threads are clean and well lubricated.
- ✓ Always check that puller is correctly assembled and is square with the workpiece.
- ✓ If vehicle is raised, ensure 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** heat puller jaws when heating a gear or bearing as this will affect the temper and, therefore, the strength of the material.
- 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.

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. INSTRUCTIONS FOR USE

- ❑ **WARNING!** Ensure that you read, understand and apply the safety instructions in Section 3.
- 3.1. Confirm that the workpiece is retained by interference fit (parallel or taper) only.
- 3.2. Assemble the appropriate puller, see fig.1, and adjust T-handle (fig. 2.A) so that the tommy bar (fig.2.B) is approximately 80mm (3") above top of ram, see fig.2.
- 3.3. Fit the puller claws behind the workpiece and then screw ram **body** down, with centre adaptor (item 4) over piston end, until centre adaptor point locates in end of shaft from which workpiece is to be pulled. If necessary use ram extension (item 5) to achieve this.
- 3.4. Ensure puller is centrally positioned with respect to workpiece and shaft and then turn T-handle clockwise, by hand only, to pull workpiece from shaft.
- 3.5. 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.

- ❑ **WARNING!** If the workpiece does not move when maximum puller force is 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.

