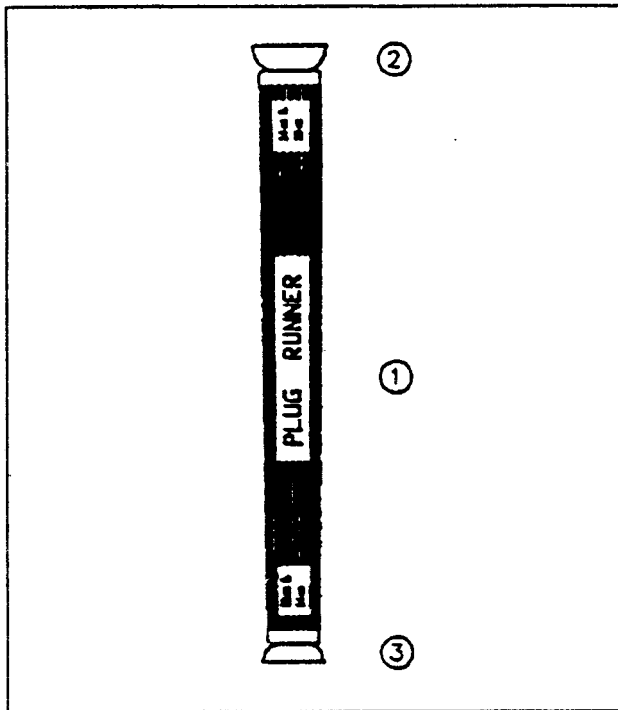


VS159
PLUG RUNNER & VALVE
LAPPING TOOL

SPARK & GLOW PLUGS, VALVES & VALVE LIFTERS.



STANDARD PARTS LIST

- | | | |
|----|---------|--------------|
| 1. | VS159/1 | Handle |
| 2. | VS159/2 | Large Sucker |
| 3. | VS159/3 | Small Sucker |

Applications

Various spark and glowplugs, various inlet and exhaust valves, bucket valve lifter.

Introduction

This tool has two separate applications. It may be used as a suction handle to attach to inlet and exhaust valves to lap the valve and seating. The other use is to remove or fit spark plugs or glow plugs. Using this tool prevents dirt and burns to the hand and eliminates cross threading. The long flexible handle ensures access to awkward plug position.

Instruction for use

Valve Lapping

This process is applied to original or new valves to ensure a good seal when the valves are closed. With original valves ensure that the seating face and valve head are clear of carbon deposit. Apply a little "coarse" grinding paste to the bevelled edge of the valve head, and one or two drops of paraffin to the seating face. Lubricate the valve stem and guide with engine oil, insert the valve into the guide and attach the suction tool to the valve head. Now grind the valve seat by rotating the handle of the lapping tool back and forth between the palms of the hands. Initially the action feels gritty but soon become smoother.

INSTRUCTIONS FOR USE Valve Lapping.....Cont.

Lift the tool and rotate the valve half a turn, then continue lapping until the action is smoothed out. Now lift the tool and apply some "fine" paste to the valve and repeat the process. At the end of this process remove the valve and wipe clean of paste both valve and the seating face. These two contact faces should show an even matt silver band. If black spots or an uneven band are present further grinding is required. When a satisfactory finish is achieved wash away all traces of lapping paste from the valve and cylinder head with petrol.

Plug Removal

At each end of the tapered handle there is a detachable sucker pad, which has to be removed to allow the handle to be pushed onto the plug for installation or removal. With the handle pushed on the plug it may be guided to difficult plug locations and started in the thread without risk of cross threading. Once started the thread must be tightened with a socket wrench. For plug removal, a socket wrench must be used to loosen the plug, after which the handle is pushed onto the plug to complete the unscrewing and safely lift the plug clear of the engine.

Fig 1.
Valve Lapping

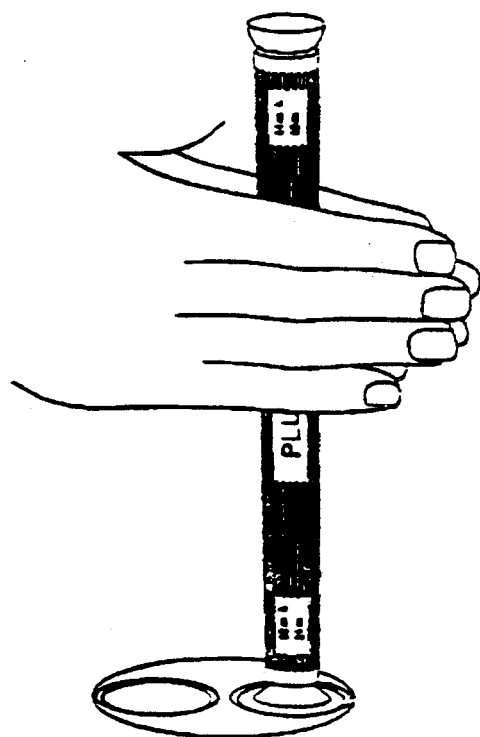
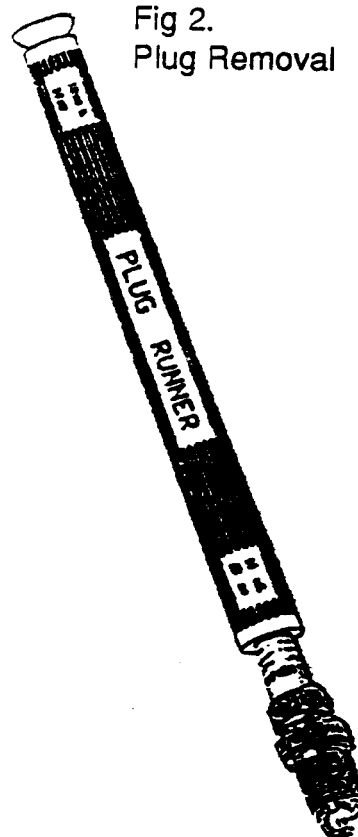


Fig 2.
Plug Removal



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