

# ***FUEL INJECTORS***

by Arthur Francis

The Wal Phillips fuel injector works on virtually every internal combustion engine. Test after test record ".....improved fuel consumption..... faster.....better acceleration.....". Some results have been sensational, one SX tested having a top speed increase of 9 mph.

The injector is basically a tube of 4½ inches length, a butterfly and set jet being operated simultaneously by bushed control rods, adjustment of the rods varying the opening of the jet in relation to the butterfly. It is a compliment to the potential of the scootering public that within a year of our developing manifolds to allow the original type injector to be installed to many Vespa and Lambretta models that a complete new unit is now available for the Pacemaker, TV 175 & 200 slimstyle machines to clamp straight on the standard manifold in place of the carburettor, price £8. 17. 6d. Our original double flange manifold is still available for all other Lambretta widestyle and slimstyle machines, the complete unit also £8. 17. 6d.

Our own development of the injector for the 160 - 180 Vespa is still the best, each unit having a three hole flange to bolt it to the engine in place of the carburettor, price £8. 10. 0d. All scooter injectors will now include a tickover adjustment screw, and once installed adopt the following adjustment procedure working in conjunction with the illustration and general instructions sent with every injector.

The setting of the injector will probably be rich but sufficiently close for immediate useage, and the scooter should be driven flat out in an intermediate gear for a few moments, and while the throttle is still fully open, simultaneously switch off the ignition (or depress the cut out) and pull in the clutch. After coasting to a halt remove and examine the plug. If the working portion is black, the injector is set rich, if white, weak. Adjust the throttle stop, level the butterfly and retest, repeating this until the plug shows a medium/dark brown. The pick up adjustment may then be set, also a new tickover screw on the underside of the injector.