

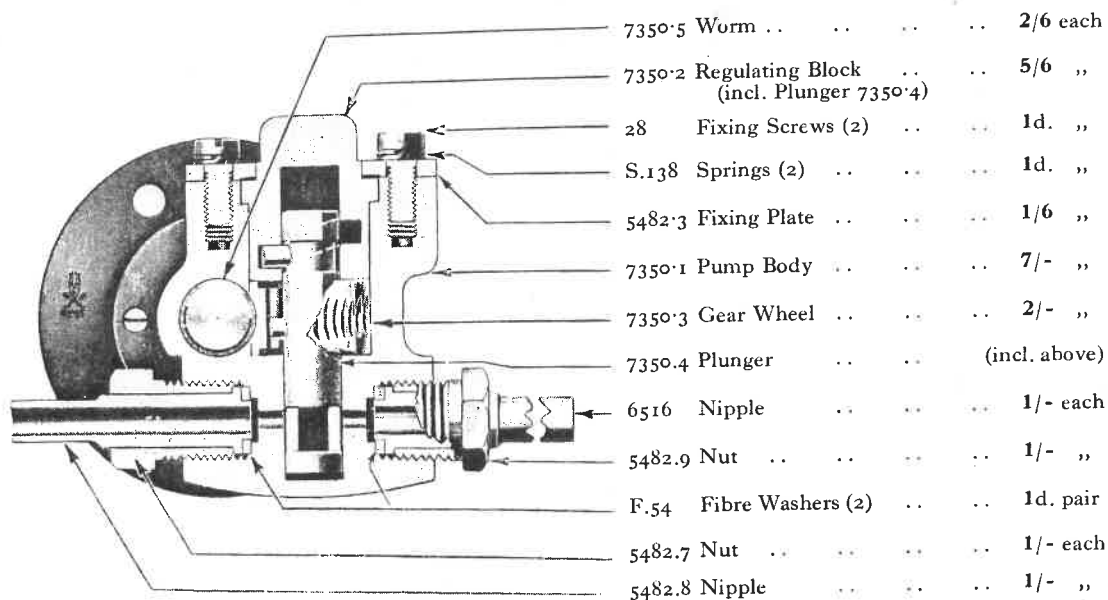


THE "BEST" MECHANICAL PUMP · Mark II

BRITISH PATENT NOS. 186783/22 AND 278283/27 · PATENTED ABROAD

PART SECTIONAL DRAWING AND SPARE PARTS PRICE LIST

PATTERN No. 7350. For motor-cycles of 1,000 c.c. or less



SPARE PARTS NOT SHOWN ON ABOVE DRAWING

Reference No.							
7350.6	Gland Bearing Ring	..	..	..	..	..	6d. each
L.165	Gland Leather	..	..	..	..	..	2d. "
5482.12	Location Pin for Fixing Plate	..	..	..	..	..	1d. "
40	Fixing Screws (2)	..	..	..	..	..	1d. "
41	Fixing Grub Screw for Third Position	..	..	..	..	..	1d. "
S.126	Springs for 40 and 41 Fixing Screws (3)	..	..	..	..	..	1d. "
231	Nuts for 40 and 41 Fixing Screws (3)	..	..	..	..	..	1d. "
7350.8	Grub Screw for securing Gland Ring and Leather	..	..	..	..	..	1d. "

DESCRIPTION

(THE NUMBERS REFER TO THE SECTIONAL DRAWING)

A plunger (7350-4) is made to rotate and reciprocate in the cylinder of the pump body. The rotary movement is given to the plunger by means of a round peg, acting as a key, which engages in a key-way in the bore of the worm wheel (7350-3). The reciprocating motion is imparted to the plunger by means of a lug which moves in a fixed cam groove cut in the cam block (7350-2).

The rotary movement is imparted to the worm wheel by a worm (7350.5) driven from the half-time or other shaft of the engine; this effects a gear reduction of 1-38. Instead of ball valves we have a flat on the plunger which registers with the supply port on the ascending stroke of the plunger and with the delivery port on the descending stroke.

The flow of oil is regulated by turning the block (7350.2) in which the cam groove is cut. This has the effect of altering the "timing" or phase of the plunger stroke in relation to the opening and closing of the supply and delivery ports, thereby adjusting the flow of oil to anything between its maximum and complete cessation. When the required adjustment is found, the two fixing screws are tightened and the serrations in the fixing plate (5482.3) are pressed on to those in the cam block.

BEST & LLOYD LIMITED · BIRMINGHAM