

B.S.A. CYCLES LTD.

SERVICE SHEET No. 63c.

December, 1937.

MOTOR CYCLE—1937 and 1938.

WARNING.

PISTON RINGS.

It cannot be too strongly emphasized that excessive and premature wear is bound to take place in air-hardened cylinder barrels and in side valve cylinders fitted with austenitic liners if standard cast iron piston rings be fitted.

Hardened piston rings MUST be used with air-hardened cylinders and austenitic piston rings MUST be used with austenitic liners.

Austenitic piston rings can readily be identified on account of the fact that they are non-magnetic.

Hardened piston rings can be identified by means of a hardness test undertaken with a file, while a further means of identification is the dark colouration on the inside of the ring consequent upon heat treatment.

For particulars of piston ring gap clearances, refer to Service Sheet No. 63B.

On account of the fact that the co-efficient of expansion of the austenitic piston ring material approximates to that of aluminium, the clearance that must be allowed between the butt ends of the piston rings is important.