

# HINTS AND TIPS ON

# SERVICE

For **BSA** Dealers

from **BSA** Incorporated, 639 Passaic Avenue, Nutley, N. J.

Service Bulletin #226

June 6, 1966

FACTORY CORRECTION OFFERED  
ON ALL UNSOLD NEW SPITFIRE MARK II SPECIALS  
SHIPPED TO YOU BEFORE MAY 1, 1966

THIS IS ONLY ON MARK II SPECIALS  
WITH ENGINE NUMBERS BELOW A65S-9938

There have been some cases of Piston Seizures and Valves Sticking on the Mark II Model and changes have been made by the Factory in the pistons - the valve guides and the Carburetors.

## CAUSE OF THE DIFFICULTY:

It has been found that the sharp edges on the tops of the pistons at the valve cut-away pockets become red hot and cause pre-ignition and the result is excessive cylinder head temperature and piston seizure. The valve sticking condition is caused by heat treating scale inside the valve guides.

CORRECTION: New Pistons with tops milled straight across to eliminate the valve pockets. New Bronze Alloy Valve Guides and Carburetor Tuning Kits.

CARBURETORS: Tests and tuning experiments conducted in this country indicate that it is also necessary to re-calibrate the carburetors to provide correct mixture and reduce cylinder head temperature.

GEARING: In some cases and under certain riding and road conditions a lower overall gear ratio is desirable and improves the performance so we have made available a 49 tooth bolt-on rear wheel sprocket which can be ordered from our Parts Department under Park Number B665 if required. This sprocket will give a top gear ratio 4.83 to 1.

CONTINUED . . . . .



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You must make the Factory recommended corrections in the New unsold Spitfire Mark II Specials that were shipped to you before May 1, 1966.

We are prepared to supply the parts and to make a labor allowance of \$35.00 for performing the correction.

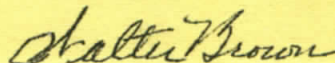
The attached Parts Order blank shows the items required to make the modifications on one Mark II Special engine.

Please write in the quantities you will need to re-work the Mark II Specials you have sold or still have in stock, then mail the Parts Order back to us.

We will ship you the parts and they will be invoiced to you, however when you return the original parts with a Claim Tag filled out completely we will pass a credit to your account for the cost of the parts and also give you a \$35.00 Labor Credit for performing the parts replacement job.

Be sure to replace the valve guides when you have the cylinder head off the engine as it is possible that they may give trouble later on, although they appear to be in good condition.

BSA INCORPORATED



WALTER BROWN  
Service Manager

CORRECTION MUST BE MADE BY THE SELLING DEALER. WE CANNOT ACCEPT ANY MOTORCYCLES OR ENGINES IN OUR SHOP. NOR CAN WE BE RESPONSIBLE FOR THE PERFORMANCE OF THESE MODELS UPON WHICH THE DEALER FAILS TO MAKE THE ABOVE CORRECTION.