

HINTS AND TIPS ON — SERVICE —

For **BSA** *and* **ARIEL** *Dealers*

Service Bulletin #67

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SUBJECT: CONNECTING ROD INSERTS - PISTONS - PISTON RINGS "A" Models

Warning: Connecting Rod Bearings - Pistons and Piston Rings are very sensitive to abuse therefore, NEW ENGINES cannot be run at excessive speeds too soon.

It is necessary to fit new Connecting Rod Inserts, Pistons and Piston Rings on the snug side at the factory in order to arrive at proper fits to hold oil pressure, to hold compression; to assure quiet running after the engine has been "run-in".

When an engine is new, "friction heat" generates at all bearing surfaces, such as Connecting Rod Inserts - Shafts - Pistons - Piston Rings - Cylinder Walls, etc.

If new engines are run faster than the factory recommended limits this "friction heat" generates to the extent that metal expansion occurs and the result is bearing, piston or piston ring seizure.

IMPORTANT: "RUNNING IN" A NEW MOTORCYCLE

The "running-in" process is the most important period in the life of the engine and the handling it receives during the first 1000 to 1500 miles will determine the service it will provide in return.

It is advisable not to exceed 35 m.p. h. in any gear during the first 750 miles of operation and not over 40 m.p.h. during the next 750 miles. If excessive speeds are used, there is the risk of connecting rod insert seizure and piston seizure or possibly other troubles.

The maximum engine R.P.M. set by the factory is 6500 so do not "over-rev" the engine at any time during the "running-in" period or thereafter. Use BSA racing oil in Scrambler Models - change the oil according to the factory recommendations and keep the oil levels up.

NOTE: A customer who comes back to you with a machine that has burned out connecting rod bearings or seized up pistons with smoke and oil pouring out of the exhaust pipes, has definitely run the engine too fast too soon. He is Not entitled to any consideration under the terms of the Warranty.

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YOU MUST CAUTION A NEW MACHINE OWNER about running the machine too fast during the break in period and tell him in no uncertain terms that if he brings the machine back to you seized-up and smoking through the exhaust pipes that he will have to pay for the labor and parts required to put the engine back in good order.

WR/ah

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