



SERVICE BULLETIN

MANDATORY

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1.) PURPOSE. To announce possible incorrect assembly of piston rings.

2.) BACKGROUND. ACE supplied distributors or customers with kits or fully assembled engines consisting of AX40 or AX50 air cooled cylinder kits, w/ includes cylinder unit, connecting rod, piston, piston pin and piston rings consisting of top ring, second ring and three piece oil control ring. Recently on tear down of several engines, the piston ring pack were assembled incorrectly, with either the top ring being installed upside down or the second ring being upside down.

3.) TIME OF COMPLIANCE. If any engine is fitted with either AX40 or AX50 cylinders, all serial numbers and therefore is identified with this Mandatory Service Bulletin, before next flight:

3.1 A compression check must be carried out (not a leak down test), minimum expected pressure is 155psi. There should be no more than 5% variance between the cylinders. If more than 5%, remove cylinders, examine and replace rings.

3.2 Complete a leak down test, an expected pressure of 65psi is required with no more than 5% variation. If more than 5% remove cylinders, examine and replace rings.

3.3 If more than 4" of pressure is observed from the crankcase breather, remove cylinders, examine and replace rings.

4.) MODELS AFFECTED. All AX40 and AX50 cylinders. Note* These products are no longer in production.

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