



**Title: LIMITED CYLINDER EXCHANGE**

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Revision: **0**

*Technical Portions are FAA DER Approved.*

**1.0 PURPOSE:** This Mandatory Service Bulletin is to alert ECi customers about a possible thread defect in the cylinder barrels installed on a small group of replacement or rebarreled cylinders, and to establish corrective action.

**2.0 MODELS AFFECTED:** This Mandatory Service Bulletin applies to Lycoming “Wide Deck” 360 and -540 engines that have cylinders repaired or replaced using an AEL54002 Barrel manufactured by ECi under FAA PMA, and which have one of the serial numbers listed below:

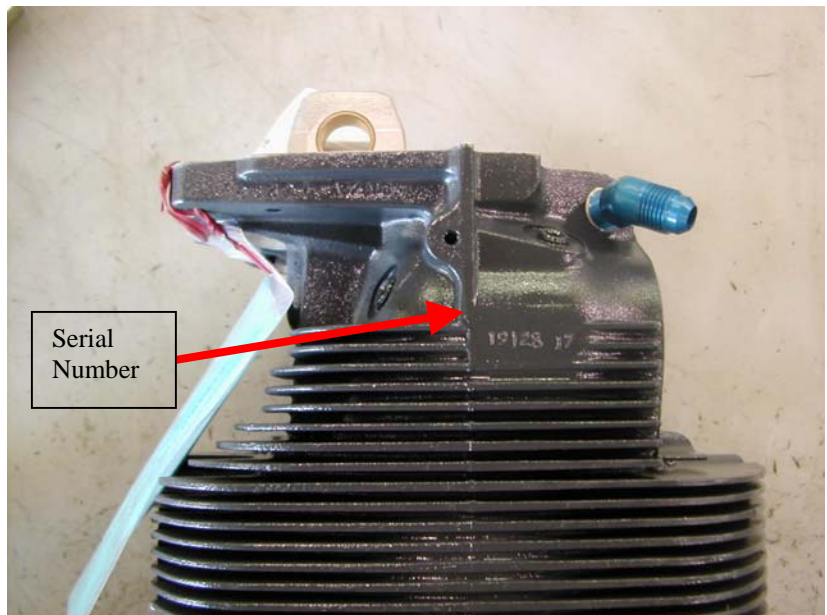
14114-28	14373-20	14442-23	14507-10	14507-23	14508-23	14633-16
14288-25	14442-7	14442-25	14507-13	14507-24	14508-24	
14373-13	14442-12	14468-08	14507-14	14508-12	14508-26	
14373-16	14442-15	14468-20	14507-16	14508-13	14577-19	
14373-19	14442-21	14507-4	14507-17	14508-14	14577-20	

**3.0 TIME OF COMPLIANCE:** Suspect cylinders should be removed within 25 hours of operation after receipt of this Mandatory Service Bulletin.

**4.0 CYLINDER IDENTIFICATION:** The identification of the affected cylinders is accomplished as follows: Verify the engine the suspect cylinder assemblies are installed on is a parallel valve Lycoming 360 or 540 series engines with wide deck cylinder flanges.

**4.1** Check engine records to determine if a cylinder assembly with one or more of the serial numbers listed above is installed on the engine. If so, then proceed to 4.2. If not, no further action is required.

**4.2** Verify which cylinder(s) have one of the serial numbers listed in paragraph 2.0 above. The cylinder serial number can be found on a flat on the outside of the intake port as shown in the photograph at right.



**NOTE:** The intake port side of the cylinder is distinguished by shallow fins. The exhaust side has deeper fins for added cooling.



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- 5.0 MAINTENANCE ACTION REQUIRED:** If a cylinder assembly with one of the serial numbers listed is identified, remove the cylinder assembly and contact ECi Customer Service (800-324-2359) for a Return Merchandise Authorization (RMA). Your customer service representative will provide you with an RMA number, and will also provide details of the ECi exchange policy for these particular cylinders to include the removal and replacement labor reimbursement. Please return cylinder assembly complete with piston and rings, but rocker arms should be removed. Please note type of aircraft the cylinder(s) was removed from and total time on the cylinder.