

TEXTRON Lycoming

Reciprocating Engine Division/
Subsidiary of Textron Inc.
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MANDATORY SERVICE BULLETIN

DATE: May 2, 1995
Service Bulletin No. 518C
(Supersedes Service Bulletin No. 518B)
Engineering Aspects are
FAA Approved

SUBJECT: Inspection of Thermostatic Bypass Valves

MODELS AFFECTED: All Textron Lycoming engines employing thermostatic bypass valves P/N 53E19600 (except with serial numbers 53788 and higher), P/N 75944, P/N LW-13230 and P/N 53E19980 (except with serial numbers 159 and higher).

TIME OF COMPLIANCE: At next oil change, not to exceed 50 hours, and then annually thereafter.

Textron Lycoming has received reports that a number of thermostatic bypass valves are in service with loose crimp nuts. It has been shown that the nut can work free and drop into the engine causing engine damage.

All subject thermostatic bypass valves must be inspected at next oil change, not to exceed 50 hours, with subsequent inspection each year thereafter. Thermostatic bypass valve P/N 53E19600 with serial numbers 53788 and higher and P/N 53E19980 with serial numbers 159 and higher are not subject to the initial inspection or the annual inspection.

A physical inspection of the crimp nut is required to ensure it is seated and solid on the shaft. Separate the seat and retaining nut by holding the valve assembly in one hand and compressing the valve spring with the forefinger and thumb. (See Figure 1.) With the seat and nut separated, grasp the crimp nut with the other hand and attempt to move it. The crimp nut must not move. If the thermostatic bypass valve assembly does not meet this inspection, it must be reworked or replaced immediately.

Rework of the thermostatic bypass valve can be accomplished by following the procedure in Service Instruction No. 1423. Although Service Instruction No. 1423 refers only to P/N 75944 thermostatic bypass valves, for the purpose of this rework it applies to all thermostatic bypass valves specified above.

After rework, the thermostatic bypass valve must be reinspected annually until replacement.

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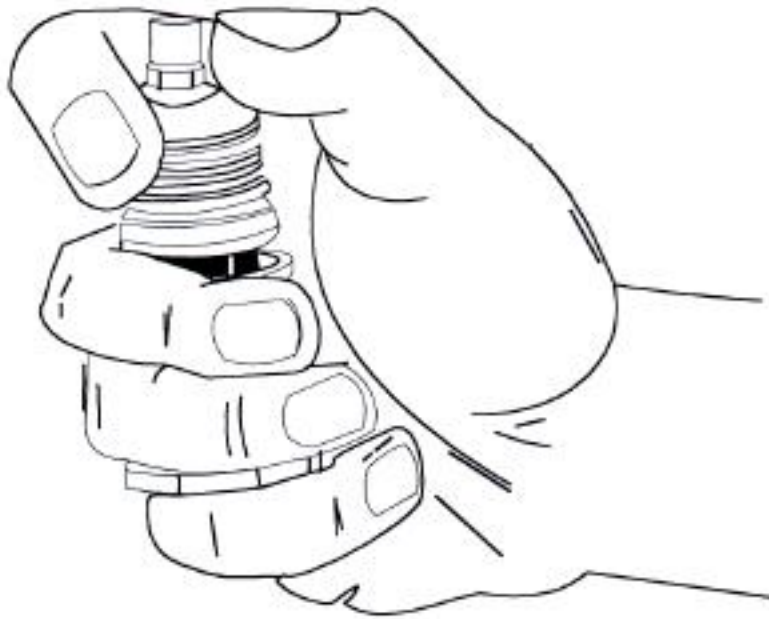


Figure 1.

Make appropriate log book entries for each inspection.

Normal warranty policy applies.

NOTE

All thermostatic bypass valves must be replaced at overhaul.

NOTE: Revision "C" revises text to add rework.