

# MANDATORY

# SERVICE BULLETIN

November 12, 2002

Supplement No. 3  
(Supersedes Supplement No. 1 and No. 2 to Service Bulletin No. 554)

To  
Service Bulletin No. 554

Supplement No. 3 to Lycoming Service Bulletin No. 554 provides the following additions and revisions to Service Bulletin No. 554, Supplement No. 1 and Supplement No. 2 to Service Bulletin No. 554.

1. Service Bulletin No. 554 affects:
  - A. All factory new, factory rebuilt, and factory overhauled engines listed in Table 1 of Service Bulletin No. 554.
  - B. O, IO, TIO, LTIO and AEIO-540 engines that have had a crankshaft bolt replaced during field maintenance or field overhaul between November 27, 1996 and the date of this supplement.
  - C. O, IO, TIO, LTIO and AEIO-540 engines that were repaired at Lycoming between November 27, 1996 and November 10, 1998, regardless of whether the serial number is listed in Table 1 of Service Bulletin No. 554.
2. Service Bulletin No. 554 does not affect:
  - A. Engines with single drive dual magnetos.
  - B. Engines that have had Gear Bolt Replacement Kit P/N 05K19987 installed in compliance with Service Bulletin No. 554.
  - C. O-540-F helicopter engines that have complied with Lycoming Special Advisory No. 48-798 and A.D. 99-03-05 and Robinson Service Bulletin No. SB-29, unless the crankshaft bolt has been replaced after the compliance.

The following engines that were listed in Table 1 of Service Bulletin No. 554 are in compliance with Lycoming Special Advisory No. 48-798 and A.D. 99-03-05 and Robinson Helicopter Service Bulletin No. SB-29 and are not affected by Service Bulletin No. 554 unless the crankshaft gear bolt was replaced after that compliance.

25187-40A, 25209-40A, 25222-40A, 25241-40A, 25245-40A, 25250-40A, 25253-40A, 25254-40A, 25255-40A, 25256-40A, 25258-40A, 25259-40A, 25260-40A, 25261-40A, 25262-40A, 25263-40A, 25265-40A, 25267-40A, 25268-40A, 25269-40A, 25271-40A, 25272-40A, 25274-40A, 25275-40A, 25278-40A, 25279-40A, 25280-40A, 25281-40A, 25283-40A, 25284-40A, 25285-40A, 25286-40A, 25290-40A, 25291-40A, 25293-40A, 25294-40A, 25295-40A, 25296-40A, 25297-40A, 25298-40A, 25299-40A, 25300-40A, 25301-40A, 25302-40A, 25304-40A, 25305-40A, 25306-40A, 25307-40A, 25308-40A, 25309-40A, 25310-40A, 25311-40A, 25312-40A, 25314-40A, 25316-40A, 25319-40A, 25328-40A, 25329-40A, 25330-40A, 25331-40A, 25332-40A, 25336-40A, 25337-40A.

3. Plating of the bolt can result in a wide range of coloration; therefore, using the color of the bolt is not a reliable method of identifying acceptability.
4. **RECALL OF BOLTS FROM REPAIR STATIONS.** Lycoming requires that all STD-2209 crankshaft gear bolts from Maintenance Facility stock except those that are included as part of a gear bolt replacement kit, be returned to Lycoming.