

»» Product Information Letter Number: PIL 02-01 A

Date: 10/13/2002

Subject: Emergency Airworthiness Directive No. 2002-20-51
October 1, 2002
Lycoming Part Number STD-2209

REF: Replaces Service Bulletin 102-001

**Superior Air Parts, Inc. SL-STD-2209 NOT AFFECTED by AD
No. 2002-20-51 on Lycoming Bolts**

Emergency Airworthiness Directive (AD) No 2002-20-51 clearly states in the Applicability section that the AD applies **only** to Lycoming part number STD-2209 bolts. This letter is to inform aircraft owners and overhaul facilities that might be affected by Emergency Airworthiness Directive (AD) No 2002-20-51 or Lycoming Service Bulletin (SB) No. 554, and Lycoming Supplement No. 1 to SB 554, that SL-STD-2209 Bolts manufactured by Superior Air Parts, inc. are **not** covered by the AD or the Service Bulletins.

1. Superior Air Part, Inc. holds a Federal Aviation Administration Parts Manufacturer Approval (FAA-PMA) to manufacture replacement bolts for the Lycoming engines that are the subject of this AD. This part, SL-STD-2209, is not the subject of this AD or Lycoming's Mandatory Service Bulletins. Bolts that have been replaced during maintenance or overhaul at any time, including the period from November 27, 1996 and November 10, 1998, and which were manufactured by Superior Air Parts, Inc., do not need to be replaced as required by AD No. 2002-20-51 or Lycoming SB No. 554.
2. AD No. 2002-20-51 states:

*"After the receipt of this AD, do not install any zinc-plated crankshaft gear retaining bolt, P/N STD-2209, onto any engine listed in this AD. **Zinc-plated bolts are gold in color.**"*

Lycoming SB No. 554 states:

"Lycoming requires that the crankshaft gear retaining bolt be replaced with the new bolt P/N STD-2209 (cadmium plated and silver in color)."

The implication of both the AD and Lycoming's SB is that bolts that are gold in color are zinc-plated and are, therefore unacceptable. Bolts that are silver in color are cadmium plated and acceptable.

The FAA approved data for the Superior Air Parts, Inc. SL-STD-2209 references that cadmium plating be done in accordance with Aerospace Material Specification (AMS) 2400. AMS 2400, Revision V, dated June 2002 provides, in pertinent paragraphs 3.5.2, 3.5.2.1 and 3.5.2.2, for variations in color. Those paragraphs are quoted below:

- 3.5.2 The color of the finished plated parts shall be in accordance with 3.5.2.1 or 3.5.2.2 as applicable.

3.5.2.1 Chromate treated parts shall be within a color range of iridescent yellow or gold, to brown to olive drab.

3.5.2.2 Chromic acid treated parts shall be within the color range of gray to silver.

Bolts cadmium plated in accordance with AMS 2400 can be in a range of colors, including yellow, gold, silver or gray. Superior Air Parts, Inc. cadmium plates its replacement bolts for the Lycoming STD-2209 in accordance with AMS 2400 and they are yellow or gold in color. Therefore the color of the bolt cannot be used as the sole criteria for replacing the bolt. **The bolt must be both gold AND manufactured by Lycoming to be affected by AD No. 2002-20-51 or Lycoming SB No. 554.**

BOLTS THAT ARE GOLD IN COLOR ARE NOT NECESSARILY ZINC-PLATED AND SUBJECT TO THIS AD.

SL-STD-2209 Bolts, manufactured by Superior Air Parts, Inc. under Federal Aviation Administration Part Manufacturer Approval (FAA-PMA) may be identified by the letters "SL" permanently stamped into the head of the bolt.



Superior Air Parts, Inc. has replacement bolts, part number SL-STD-2209 in stock that are in full compliance with FAA regulations and may be installed in engines without being subject to this AD.

Aircraft owners or overhaul shops with questions about this information may contact Superior Air Parts, Inc. at 972-829-4600.

If FAA representatives have questions about this information or the applicability of AD No. 2002-20-51 to parts manufactured by Superior Air Parts, Inc. they should contact either of the following:

Superior Air Parts, Inc.

Charles B. Dedmon

Ph: 972-447-9999

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Federal Aviation Administration

FAA contact information is
included in AD No. 2002-20-51.