



Service Advisory

TAT SA11-09, Revision None

Issued: 11/29/2011

SUBJECT:

Release of Continental Motors Mandatory Service Bulletin MSB11-4: Starter Adapter Inspection
And resultant Emergency Airworthiness Directive 2011-25-51

PURPOSE:

The purpose of this Service Advisory is to make owners of turbonormalized aircraft and engines modified in accordance with STC's SA5223NM, SE5222NM, SA10588SC and SE10589SC aware of Continental Motors Inc. Mandatory Service Bulletin MSB11-4 and resultant Emergency Airworthiness Directive 2011-25-51 regarding potential shaft failure of certain starter adapters. Failure of the Starter Adapter Shaft Gear may result in a complete loss of engine oil leading to engine failure. This Service Advisory is being issued to make owners, operators, and service technicians aware that MSB11-4 may also apply to additional engines not listed in the Continental Service Bulletin. Those engines are listed in the "Aircraft and Engines Affected" section of this service advisory. Emergency AD 2011-25-51 and Continental Motors Mandatory Service Bulletin MSB11-4 mandate the replacement of certain Starter Adapters.

AIRCRAFT AND ENGINES AFFECTED:

Non-air-conditioned Hawker Beechcraft Corp. Model 35-C33A, 36, A36, E33A, F33A, G33, G36, S35, V35, V35A, V35B, A36TC, B36TC powered by Teledyne Continental Motors IO-520-B, IO-520-BA, IO-520-BB, and IO-550-B engines with turbonormalizer system installed per STC's SA5223NM and SE5222NM. These aircraft and engines use the same starter adapters as many of the TSIO-520 and TSIO-550 series engines. Therefore, MSB11-4 may apply. Air conditioned aircraft use a different starter adapter part number not listed in MSB11-4 and AD 2011-25-51.

Cirrus Design Corporation Model SR22 powered by Teledyne Continental Motors IO-520-N engine with turbonormalizer system installed per STC's SA10588SC and SE10589SC. This Service Advisory does not apply to early turbonormalized Cirrus aircraft that have a scavenge pump separate from the starter adapter.

Engines with starter adapter part number (P/N) 642085A17, 642085A19, 642085A20, 642085-1A1, and R-642085A17, installed, where the engine was manufactured between January 1, 2011 and November 20, 2011, or, where a replacement new or rebuilt starter adapter was purchased and installed between January 1, 2011 and November 20, 2011 are all subject to MSB11-4 and Emergency AD 2011-25-51. Similarly, those engines modified per STC SE5222NM where a replacement new or rebuilt starter adapter was purchased and installed between January 1, 2011 and November 20, 2011 may need to comply with MSB11-4.

COMPLIANCE:

See Continental Motors Mandatory Service Bulletin MSB11-4 for details on how to determine if your starter adapter needs to be inspected and/or replaced.

For compliance times for turbonormalized Cirrus Design Corporation SR22 aircraft see Emergency AD 2011-25-51.

For compliance times for turbonormalized Hawker Beechcraft Corp. Model 35-C33A, 36, A36, E33A, F33A, G33, G36, S35, V35, V35A, V35B, A36TC, B36TC it is recommended that the compliance times of Continental Motors, Inc. MSB11-4 be followed.

MAINTENANCE:

If your starter adapter was installed or replaced with a starter adapter supplied by Continental Motors that was new or rebuilt between January 1, 2011 and November 20, 2011 comply with Continental Motors Mandatory Service Bulletin MSB11-4.

CAUTION: The Starter Drive Adaptor must be installed fully assembled. Partial disassembly of the Starter Drive Adaptor to facilitate installation may cause misalignment of the scavenge pump housing to the starter adapter cover and render performance of Service Bulletin MSB11-4 ineffective.

Although AD 2011-25-51 does not require reporting, Tornado Alley recommends the Compliance Form on page 6 of Continental Motors Mandatory Service Bulletin MSB11-4 be completed and submitted to Continental Motors, Inc. if applicable. Refer to Continental Motors Mandatory Service Bulletin MSB11-4 for details.

WARRANTY:

Refer to Continental Motors Mandatory Service Bulletin MSB11-4 for details.
Compliance with MSB11-4 must be completed before March 1, 2012.