

**CONTINENTAL MOTORS® AIRCRAFT ENGINE
CRITICAL SERVICE BULLETIN**

COMPLIANCE NECESSARY TO MAINTAIN SAFETY

**CATEGORY 2
CSB09-11A**

**Supersedes CSB09-11
TECHNICAL PORTIONS
FAA APPROVED**

SUBJECT: Minimum Cruise RPM

PURPOSE: To establish minimum engine RPM cruise.

COMPLIANCE: Upon issuance of this bulletin

MODELS

AFFECTED: New, Rebuilt, and Overhauled: O-470-G; IO-470-N; IO-520-BB, CB, MB, P; IO-550-A, B, C, D, E, F, G, L, M, N, P, R; IOF-550-B, C, D, E, F, L, N, P, R; TSIO-520-AE, BB, BE, CE, DB, EB, JB, KB, LB, NB, UB, VB, WB; LTSIO-520AE; TSIO-550-A, B, C, E, K, N; TSIOF-550-D, J, K, P; TSIOL-550-A, B, C

I. Background Information

Continental Motors, Inc.(CMI) examined occurrences of crankshaft counterweight release and subsequent engine stoppage in two, high time IO-520 and two, high time TSIO-520 engine models. Investigation and reported service history led us to believe that these occurrences are associated with engine operation at a sustained cruise engine RPM of less than 2300 RPM.

Engine model specifications, for many of the affected engines indicate power settings of less than 2300 RPM, are within the recommended cruise operating range. The reported population of aircraft (equipped with the affected engine models that operate using an RPM less than 2300 RPM for extended cruise operation) is limited. CMI will continue to evaluate any counterweight releases reported to CMI in an attempt to establish a root cause, including any possible connection with power settings.

II. Action Required

Effectively immediately, Continental Motors strongly recommends the following action be observed for all affected engine models:

Engine cruise RPM settings should be no lower than 2300 RPM

NOTE: This service document applies only to *cruise operation* and does not supersede the aircraft manufacturer’s recommendations for other operational modes such as emergency or holding procedures.

Engine models identified in the “Models Affected” section of this service bulletin with a history of consistent cruise operation below 2300 RPM should contact CMI Customer Service at 1-888-826-5465 or 1-251-436-8299 for further information and instructions.

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III. Contacting Customer Service

Upon initial contact with CMI Customer Service, owner/operators must be prepared to provide the following information.

1. Aircraft make and model
2. Aircraft registration
3. Engine model(s)
4. Engine serial number(s)
5. Total engine hours since major overhaul or factory new/rebuilt
6. Aircraft operational profile:
 - a. Engine RPM
 - b. Engine manifold pressure (in Hg)
 - c. Fuel flow (PPH or GPH)
 - d. Average cruise conditions (duration and altitude)
 - e. Average cycle time if the aircraft is used in scheduled service.

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