

# Service Newsletter

August 1, 2005

SNL05-11

## TITLE

ENGINE STARTER DUTY CYCLE TIMES

## TO

Cessna Distributors, Single Engine Service Stations, CPC's and Applicable Owners of Record

## EFFECTIVITY

All model 172R, 172S, 182S, 182T, T182T, 206H and T206H airplanes.

## DISCUSSION

Reports have been received of failed engine starters at relatively low hours of operation. This Service Newsletter is being issued as a reminder about the engine starter duty cycle times as stated in the Pilot's Operating Handbook.

Normal Procedures: Starter duty cycle. Crank the starter for 10 seconds followed by a 20 second cool down period. This cycle can be repeated two additional times, followed by a ten minute cool down period before resuming cranking. Repeat cranking procedures above one more time. If the engine still fails to start, an investigation to determine the cause should be initiated. This duty cycle time should be strictly followed to enhance starter life and assist in reducing the possibility of premature engine starter failure.

For airplanes equipped with a Lamar engine starter, it is recommended that during normal scheduled 50 hour maintenance intervals, the starter drive should be lubricated as specified in the applicable model airplane Maintenance Manual. Lamar Technologies Corporation has also issued Service Information Letter No. SIL LSI-001 which outlines starter drive lubrication procedures. According to Lamar Technologies Corporation, operation of the affected starter motors will be improved, especially during cold weather, if the following procedure is accomplished after each 50 hours of engine operation.

1. Wash Bendix starter drive assembly with clean petroleum spirits.
2. Lubricate the Bendix starter drive assembly with spray silicone.

**CAUTION:** DO NOT USE SOLVENTS OTHER THAN PETROLEUM SPIRITS TO WASH THE STARTER DRIVE. ALSO, DO NOT USE GREASE, OIL OR GRAPHITE LUBRICANTS, ONLY SILICONE SPRAY LUBRICANTS ARE RECOMMENDED FOR SATISFACTORY OPERATION.

For model 206 airplanes equipped with a Sky-Tec engine starter, according to Sky-Tec, a small amount of dry-silicone type lubricant or light LPS (1) may be applied to the drive pinion gear and/or shaft to minimize surface corrosion. Never pressure wash the starter with water or any form of degreasing agent. Simply wipe it clean to remove any surface contaminants.

## OWNER NOTIFICATION

On August 1, 2005 a copy of this Service Newsletter will be mailed to applicable Owners of Record for airplanes in warranty.

OCT 1 0 2005

Page 1 of 1

To obtain satisfactory results, procedures specified in this publication must be accomplished in accordance with accepted methods and prevailing government regulations. Cessna Aircraft Company cannot be responsible for the quality of work performed in accomplishing the requirements of this publication.

Cessna Aircraft Company, Product Support, P.O. Box 7706, Wichita, Kansas 67277, U.S.A. (316) 517-5800, Facsimile (316) 942-9006

COPYRIGHT © 2005