

MANDATORY

SERVICE BULLETIN

DATE: May 6, 2011 Service Bulletin No. 595
Engineering Aspects are
FAA (DER) Approved

SUBJECT: Torque Values for Screws that Attach Ignition Harness Attachment Plate (for S-20 and S-200 Series Teledyne Continental Motors (TCM) Magnetos)

MODELS AFFECTED: All Lycoming engines with S-20 and S-200 series TCM magnetos

TIME OF COMPLIANCE: Within 50 hours of engine operation or at the next maintenance event, whichever occurs first

NOTE

Incomplete review of all the information in this document can cause errors. Read the entire Service Bulletin to make sure you have a complete understanding of the requirements.

This Service Bulletin applies to the torque values for the four screws that are used to attach the ignition harness attachment plate for S-20 and S-200 series TCM magnetos on Lycoming engines.

As found in TCM's Critical Service Bulletin No. CSB668, there are differing specified torque values for the four fastening screws for the ignition harness attachment plate for TCM and TCM/Bendix S-20 and S-200 series magnetos. The TCM S-20, S-200 Magneto and Harness Service manuals have identified 25 to 35 in.-lb (2.9 to 4.1 Nm) torque for the TCM ignition harness attachment plate screws since 1989, while TCM/Bendix engineering installation drawings have identified 12 to 15 in.-lb (1.4 to 1.7 Nm) of torque since 1979. Therefore, as a precaution, the TCM CSB-668 now recommends the lower torque values from 12 to 15 in.-lb (1.4 to 1.7 Nm) for the four screws used to attach the ignition harness attachment plate.

NOTE

The 12 to 15 in.-lb torque value range also is identified in the Champion Aerospace Ignition Lead Assembly and Maintenance Manual L-1499B dated 07/06/10 for the four screws used to attach the ignition harness attachment plate on Bendix S-20 and S-200 series magnetos.

As per the TCM CSB668 and the Champion Aerospace Ignition Lead Assembly and Maintenance Manual L-1499B, Lycoming recommends that owners of the S-20 and S-200 TCM magnetos, regardless of ignition harness attachment plate manufacturers do the following:

1. Remove the four screws from the ignition harness attachment plate.
2. Examine the ignition harness attachment plate for cracks at the four corner attachment points where the four screws install. If cracks are found, replace the plate.
3. Install a serviceable, non-cracked ignition harness attachment plate on the magneto with the four screws.
4. Torque the four screws to 12 to 15 in.-lb (1.4 to 1.7 Nm) using a criss-cross tightening procedure.



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