



SERVICE LETTER 00024

Date Released: 10/14/2020 (Rev 1 - clarified timeframe for compliance)
10/06/2020 (Initial Release)

Date Effective: 10/14/2020

Subject: Dynamically Balance Propeller

Affected Models: All RV-12/12iS aircraft
SLSA RV-12/12iS – All serial numbers

Required Action: Complete a dynamic balance of the propeller

Time of Compliance: For aircraft that are within the first 15 hours of flight, or which are currently under construction: Complete the propeller balance before reaching 15 total flight hours. Reference the PAP [RV-12iS: Rev 2.3 or newer; RV-12: Rev 13 or newer]

For flying aircraft that have already exceeded 15 hours of flight and have not had a propeller balance, complete the propeller balance within the next 10 hours of flight. Reference the MM [RV-12iS: Rev 3.5 or newer; RV-12 Rev 9.7 or newer].

Labor Required / SLSA Warranty Allowance: 2.0

Level of Certification: SLSA: LSA Repairman Maintenance or A&P
ELSA: Owner (certification not required)
Check the rules of the local controlling authority/agency and the operating limitations for your aircraft.

Synopsis:

A dynamic propeller balance is now required as part of the Production Acceptance Procedure (PAP) and has been added to the RV-12 and RV-12iS Maintenance Manuals (MM).

A number of fatigue issues have been observed and attributed directly to excessive vibration resulting from propeller imbalance. In extreme cases, propeller imbalance can cause the engine to run rough and induce vibrations in the airframe, which can cause poor ADAHRS and autopilot performance, component fatigue, and pitot tube failure.

Materials Required:

The following materials are required to complete the steps necessary to achieve compliance with this Service Letter:

Dynamic Propeller Balancing Equipment

Method of Compliance:

Step 1: If the aircraft is within the first 15 flight hours of flight since new, or is currently under construction, complete a dynamic propeller balance prior to 15 hours of aircraft flight time. Reference the PAP [RV-12iS: Rev 2.3 or newer; RV-12: Rev 13 or newer]

For all other aircraft, including those which are flying and have already accumulated more than 15 total flight hours, complete a dynamic propeller balance within the next 10 flight hours. Reference the MM [RV-12iS: Rev 3.5 or newer; RV-12 Rev 9.7 or newer] for all other aircraft.

Step 2: Place a copy of this notification in the back of the maintenance manual for your aircraft. Note the addition of this notification to the bottom of the Maintenance Manual table of contents.

If you are no longer in possession of this aircraft, please forward this information to the present owner/operator and immediately notify Van's Aircraft, Inc. via email at registrations@vansaircraft.com.

Information regarding establishing/transferring aircraft ownership, registration and licensing is available at: <https://www.vansaircraft.com/qr/transfer-of-ownership/>