

Beechcraft SERVICE LETTER

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RECOMMENDED USE OF MODEL 215 PROPELLER WITH 84-INCH DIAMETER

While supplements to CAA Aircraft Specification A-777 have approved both the Continental E225-8 engine, and the Beechcraft Model 215 propeller with either 84-inch or 88-inch blades, for installation in Bonanzas built prior to the start of factory installation of these items, the interchangeability of the propellers is limited. The purpose of this Service Letter is to explain the installations authorized by the CAA and the limitations imposed on the 84-inch diameter propeller.

Continental E-165 engines, and E-185 engines prior to serial 22183 are not equipped with the correct crankshaft dampeners for use with the 84-inch propeller; when used on these engines, the shorter blades produce excessive vibratory stresses at various rpm and power settings throughout the normal operating range. Since crankshaft dampeners are fitted only by Continental at the factory, only E-225-8 engines, serial 30087 and above, and E-185-11 engines, serial 22183 and above, fitted with one fifth order and one sixth order crankshaft dampener, are satisfactory for use with the 84-inch propeller.

Only the E35 and F35 Bonanzas with the E-225-8 engine, and the F35 Bonanza with the E-185-11 engine, have been approved by the CAA to date for the 84-inch propeller. Owners contemplating changing to the shorter blades on Bonanzas prior to D-4000 with E-185-11 engines should contact their local CAA official regarding approval of the installation, before proceeding.



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