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# Conversion of a Volkswagen Engine For Aircraft Use

L W. Corbin

*Indiana University - Purdue University Fort Wayne*

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CONVERSION OF VOLKSWAGEN ENGINE  
FOR AIRCRAFT USE

Abstract:

The Volkswagen has proven usable in aircraft but many previous conversions have been expensive and sometimes unreliable. This conversion mounts the propellor on the flywheel end which is much better able to withstand the torque and thrust forces than the pulley end which is usually used. The ignition is built from readily available components and provides a completely separate system for each cylinder instead of either a single system or dual systems using a second spark plug which weakens the head. The motor mount makes use of bosses on the crankcase parting line and provides vibration isolation between the engine and fuselage. The exhaust system uses baffles to reduce sound level without creating excessive backpressure.

prepared by  
L. W. Corbin  
April 20, 1975

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