

# UNAPPROVED PARTS NOTIFICATION

Flight Standards Service



**FAA**  
Aviation Safety

No.: 2008-200500171

Date: May 8, 2008

<http://www.faa.gov/aircraft/safety/programs/sups/upn>

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## **AFFECTED PARTS**

General Design, Inc., DC Motors and Beechcraft Main Landing Gear Actuator Assemblies

## **PURPOSE**

This notification advises all aircraft owners, operators, manufacturers, maintenance organizations, parts suppliers, and parts distributors regarding improper maintenance performed on General Design, Inc., DC motors, P/Ns 6305 and 9910155-1, Beechcraft main landing gear actuator assemblies P/Ns 99-810057-603, 99-810057-604, 99-810057-651 and 99-810057-652.

## **BACKGROUND**

Information received during a Federal Aviation Administration (FAA) suspected unapproved parts investigation revealed The Aviation Group, Inc., (TAG), located at 211 Prospect Park, Peachtree City, Georgia 30269, improperly maintained or overhauled and approved for return to service DC motors manufactured by General Design, Inc., and main landing gear actuator assemblies manufactured by Beechcraft, contrary to the regulations. TAG holds Air Agency Certificate No. VGOR728L with accessory class 1, 2, and 3 ratings.

Evidence indicates that between 2002 and 2005 TAG approved for return to service DC motors not maintained or overhauled in compliance with the current manufacturer's maintenance manuals or other data or methods acceptable to the FAA. Specifically, TAG manufactured spring P/N 4567-1 and brush P/N 6298-12 for which TAG did not have parts manufacturing approval (PMA) or original equipment manufacturer (OEM) authority. These parts were used in the overhaul of General Design, Inc., DC motors, P/N 6305 and 9910155-1.

Evidence indicates that between 2002 and 2005 TAG approved main landing gear actuator assemblies not maintained or overhauled in compliance with the current manufacturer's maintenance manuals or other data or methods acceptable to the FAA. Specifically, TAG purchased bearings, P/N 115-380102 and 115-38103, that did not demonstrate conformance to Technical Standard Order TSO-C149 and used these bearings in the overhaul of Beechcraft main landing gear actuator assemblies, P/Ns 99-810057-603, 99-810057-604, 99-810057-651, and 99-810057-652.

## **RECOMMENDATIONS**

Regulations require that type-certificated products conform to their type design. Aircraft owners, operators, manufacturers, maintenance organizations, parts suppliers, and parts distributors should inspect their aircraft, aircraft records, and/or parts inventories for any General Design, Inc., DC motors, and Beechcraft main landing gear actuator assemblies approved for return to service by TAG. If you find any referenced parts installed on aircraft,

you should take appropriate action. If you find any referenced parts in existing aircraft inventories, we recommend quarantine to prevent installation until a determination can be made regarding the part's eligibility for installation.

**FURTHER INFORMATION**

You can obtain further information concerning this investigation and guidance regarding the above-referenced parts from the FAA Flight Standards District Office (FSDO) shown below. In addition to the above recommendations, the FAA would appreciate any information concerning the discovery of the referenced parts, the means used to identify the source, and the action taken to remove the parts from aircraft and/or inventory.

This notice originated from the FAA Atlanta FSDO-11, 1701 Columbia Ave., Suite 2-110, College Park, Georgia 30337-2748, telephone (404) 305-7200, fax (404) 305-7215.

Below is a partial list of parts manufactured by General Design, Inc., and Beechcraft approved for return to service by TAG.

<b>Part Name</b>	<b>Part Number</b>	<b>OEM</b>
DC Motor	6305 9910155-1	General Design, Inc.
Main Landing Gear Actuators	99-810057-603 99-810057-604 99-810057-651 99-810057-652	Beechcraft