

EMERGENCY AIRWORTHINESS DIRECTIVE

OFFICE OF AVIATION SYSTEM STANDARDS
P.O. BOX 26460
OKLAHOMA CITY, OKLAHOMA 73125-0460



U.S. Department
of Transportation
Federal Aviation
Administration

September 14, 1992
92-20-07

This priority letter Airworthiness Directive (AD) is prompted by a report of an aircraft accident caused by an obstructed fuel pump. The FAA investigation revealed that certain AC, Textron Lycoming, and Rajay/Rotomaster-modified diaphragm fuel pumps overhauled by Aero Accessories, Inc., may have a rubber washer manufactured from improperly cured material. The material can absorb fuel and expand, causing the washer to dislodge from its position and block off the outlet valve of the pump. Aero Accessories, Inc. is recalling fuel pumps overhauled between November 1991 and August 20, 1992, that may incorporate the suspect washer. Thus far, this recall has revealed three additional fuel pumps with the washer dislodged. This condition, if not corrected, could result in disruption of fuel flow to the engine, which can result in a loss of engine power.

Since an unsafe condition has been identified that is likely to exist or develop on other fuel pumps of this same type design, this AD requires the removal and replacement, prior to further flight, of all affected fuel pumps.

Pursuant to the authority of the Federal Aviation Act of 1958, delegated to me by the Administrator, the following priority letter AD 92-20-07, applicable to AC, Textron Lycoming, and Rajay/Rotomaster-modified diaphragm fuel pumps; models 40174, 40295, 40296, 40595, 41234, 41270, 41271, 41272, 41452, 41617, 41812, 75246, 75247, LW14282, LW15399, LW15472, LW15473, LW16335, LW16775, LW16947, 103396-01, 103586-01, RJ4033, R00253-2, R00253-501, and R00253-502; overhauled by Aero Accessories, Inc. between November 1991 and August 20, 1992; having serial numbers (S/Ns) 91K 073 through 91K 125, and all S/Ns beginning with prefixes 91L, 92A, 92B, 92C, 92D, 92E, 92F, 92G, and 92H 001 through 92H 146; installed on but not limited to Textron Lycoming model O-235, O-290, O-320, IO-320, LIO-320, O-360, IO-360, LO-360, LIO-360, LTO-360, O-540, IO-540, TIO-540, and LTIO-540 piston engines; installed on but not limited to piston engine powered aircraft manufactured by Beechcraft, Cessna, Mooney, and Piper; is issued and is effective immediately upon receipt.

92-20-07 AC, Textron Lycoming, and Rajay/Rotomaster: Priority Letter issued on September 14, 1992. Docket No. 92-ANE-43.

Applicability: AC, Textron Lycoming, and Rajay/Rotomaster-modified diaphragm fuel pumps; models 40174, 40295, 40296, 40595, 41234, 41270, 41271, 41272, 41452, 41617, 41812, 75246, 75247, LW14282, LW15399, LW15472, LW15473, LW16335, LW16775, LW16947, 103396-01, 103586-01, RJ4033, R00253-2, R00253-501, and R00253-502; overhauled by Aero Accessories, Inc. between November 1991 and August 20, 1992; having S/Ns 91K 073 through 91K 125, and all S/Ns beginning with prefixes 91L, 92A, 92B, 92C, 92D, 92E, 92F, 92G, and 92H 001 through 92H 146; installed on but not limited to Textron Lycoming model O-235, O-290, O-320, IO-320, LIO-320, O-360, IO-360, LO-360, LIO-360, LTO-360, O-540, IO-540, TIO-540, and LTIO-540 piston engines. These engines are installed on but not limited to piston engine powered aircraft manufactured by Beechcraft, Cessna, Mooney, and Piper.

Compliance: Required prior to further flight, unless accomplished previously.

To prevent disruption of fuel flow to the engine, which can result in a loss of engine power, accomplish the following:

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(a) Remove from service fuel pumps overhauled by Aero Accessories, Inc. between November 1991 and August 20, 1992; and having S/Ns 91K 073 through 91K 125, and all S/Ns beginning with prefixes 91L, 92A, 92B, 92C, 92D, 92E, 92F, 92G, and 92H 001 through 92H 146, and replace with a serviceable pump.

NOTES:

1. An "S" stamped on the flange above the inlet port of the fuel pump indicates previous compliance with this AD.
2. The model number is located on the edge of the mounting flange.
3. The S/N is located on the "housing backbone" between the mounting flange and the round spring housing.
4. For further information, see Aero Accessories, Inc. Mandatory Service Bulletin No. 001, dated August 21, 1992. Copies of this service bulletin may be obtained from Aero Accessories, Inc., 1240 Springwood Church Road, Gibsonville, North Carolina 27249, telephone (919) 449-5054.

(b) An alternative method of compliance or adjustment of the compliance time that provides an acceptable level of safety may be used if approved by the Manager, Atlanta Aircraft Certification Office (ACO). The request should be forwarded through an appropriate FAA Maintenance Inspector, who may add comments and then send it to the Manager, Atlanta ACO.

NOTE: Information concerning the existence of approved alternative methods of compliance with this airworthiness directive, if any, may be obtained from the Atlanta ACO.

(c) Priority Letter AD 92-20-07, issued September 14, 1992, becomes effective upon receipt.

FOR FURTHER INFORMATION CONTACT:

Jerry Robinette, Propulsion Branch, Atlanta Aircraft Certification Office, 1669 Phoenix Parkway, Suite 210C, Atlanta, Georgia 30349; telephone (404) 991-3810; fax (404) 991-3606.