

**2010-18-14 Bombardier-Rotax GmbH** (Formerly Motorenfabrik): Amendment 39-16428. Docket No. FAA-2010-0499; Directorate Identifier 2010-NE- 06-AD.

### **Effective Date**

(a) This airworthiness directive (AD) becomes effective October 13, 2010.

### **Affected ADs**

(b) None.

### **Applicability**

(c) This AD applies to Bombardier-Rotax 912 F series and 912 S series reciprocating engines with fuel pumps, part numbers (P/Ns) 892230, 892232, 892540 (standard version) or P/Ns 892235, 892236, 892545 (version including flexible fuel line), installed. These engines are installed on, but not limited to, Diamond (formerly HOAC) HK-36R Super Dimona, Aeromot AMT-200S Super Ximango; Diamond DA20-A1 Katana; Scheibe SF 25C; Iniziative Industriali Italiane S.p.A. Sky Arrow 650 TC, and 650 TCN airplanes.

### **Reason**

(d) This AD results from mandatory continuing airworthiness information (MCAI) issued by an aviation authority of another country to identify and correct an unsafe condition on an aviation product. The MCAI describes the unsafe condition as:

Due to high fuel pressure, caused by exceeding pressure in front of the mechanical fuel pump (e.g. due to an electrical fuel pump), in limited cases a deviation in the fuel supply could occur. This can result in exceeding of the fuel pressure and might cause engine malfunction and/or massive fuel leakage.

We are issuing this AD to prevent the pump from exceeding the fuel pressure, which could result in engine malfunction or a massive fuel leak. These conditions could cause loss of control of the airplane or a fire.

### **Actions and Compliance**

(e) Unless already done, do the following actions.

(1) At the next maintenance, or within the next 25 hours of engine operation, whichever occurs first, after the effective date of this AD, remove affected fuel pumps, P/Ns 892230, 892232, 892235, 892236, 892540, or 892545.

(2) After the effective date of this AD, do not install fuel pump, P/Ns 892230, 892232, 892235, 892236, 892540, or 892545, on any engine.

## **FAA AD Differences**

(f) This AD differs from the MCAI and/or service information as follows: The MCAI requires replacing an affected fuel pump with fuel pump, P/N 892542 or 892546. This AD requires replacement of an affected fuel pump with a fuel pump eligible for installation on the airplane.

## **Other FAA AD Provisions**

(g) Alternative Methods of Compliance (AMOCs): The Manager, Engine Certification Office, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19.

## **Related Information**

(h) Refer to MCAI AD 2007-0060R1-E, dated April 20, 2007, and Rotax Aircraft Engines Service Bulletin SB-912-053, dated April 13, 2007, for related information. Contact BRP-Rotax GmbH & Co. KG, Welser Strasse 32, A-4623 Gunskirchen, Austria, or go to: <http://www.rotax-aircraft-engines.com/>, for a copy of this service information.

(i) Contact Alan Strom, Aerospace Engineer, Engine Certification Office, FAA, Engine and Propeller Directorate, 12 New England Executive Park, Burlington, MA 01803; e-mail: [alan.strom@faa.gov](mailto:alan.strom@faa.gov); telephone (781) 238-7143; fax (781) 238-7199, for more information about this AD.

## **Material Incorporated by Reference**

(j) None.