

EASA	AIRWORTHINESS DIRECTIVE
	AD No.: 2009-0116 Date: 29 May 2009 Note: This Airworthiness Directive (AD) is issued by EASA, acting in accordance with Regulation (EC) No 216/2008 on behalf of the European Community, its Member States and of the European third countries that participate in the activities of EASA under Article 66 of that Regulation.
This AD is issued in accordance with EC 1702/2003, Part 21A.3B. In accordance with EC 2042/2003 Annex I, Part M.A.301, the continuing airworthiness of an aircraft shall be ensured by accomplishing any applicable ADs. Consequently, no person may operate an aircraft to which an AD applies, except in accordance with the requirements of that AD, unless otherwise specified by the Agency [EC 2042/2003 Annex I, Part M.A.303] or agreed with the Authority of the State of Registry [EC 216/2008, Article 14(4) exemption].	
Type Approval Holder's Name : Fokker Services B.V.	Type/Model designation(s) : F28 Mark 0070 and Mark 0100 aeroplanes
TCDS Number : EASA.A.037	
Foreign AD : Not applicable	
Supersedure : This AD supersedes EASA AD 2008-0126 dated 08 July 2008.	
ATA 28	Fuel System – Crossfeed Valve Actuator – Replacement
Manufacturer(s):	Fokker Aircraft B.V.
Applicability:	F28 Mark 0070 and Mark 0100 aeroplanes, all serial numbers, if an actuator Part Number (P/N) 9409122 or P/N 53-0013 is installed on one or both fuel crossfeed valves.
Reason:	Due to their position on the aeroplane, fuel crossfeed valve actuators P/N 9409122 are susceptible to freezing, which has an adverse effect on the operation of the valve. This condition, if not corrected, may generate fuel asymmetry alerts when a valve remains in the open position after being selected closed. It may also prevent the flight crew from correcting a fuel asymmetry when a valve remains in the closed position after being selected open. One event was reported where, due to such problems, the flight crew shut down an engine in-flight and diverted the aircraft. Aeroplanes with serial numbers 11244 through 11441 were delivered from the production line with actuators P/N 9401037 ("chimney type") installed. However, on some aeroplanes, these actuators have subsequently been replaced in service with actuators P/N 9409122 (using mounting blocks P/N 7923505) on one or both fuel crossfeed valves. As a result, those aeroplanes are also affected by this unsafe condition. To address and correct this unsafe condition, EASA issued AD 2008-0126 that required the replacement of all P/N 9409122 fuel crossfeed valve actuators in accordance with Fokker Services SBF100-28-046 with new actuators developed by the manufacturer Eaton Aerospace, P/N 53-0013, which have improved reliability and are less susceptible to freezing. Following the introduction of actuator P/N 53-0013 in service, Eaton Aerospace

	reported manufacturing and design errors on actuators with P/N 53-0013. As a result of these errors, the top-cap of the actuator may become loose, possibly leading to actuator failure. Eaton Aerospace has eliminated these problems by introducing a new actuator P/N 53-0027 and Fokker Services have published SBF100-28-061 to introduce these improved actuators on aeroplanes. As the compliance time of EASA AD 2008-0126 has not yet expired, both P/N 9409122 and P/N 53-0013 fuel crossfeed valve actuators can currently be installed on aeroplanes affected by this AD. For the reasons described above, this EASA AD retains the requirements of AD 2008-0126, which is superseded, and adds the requirement to install the new P/N 53-0027 actuators. This AD also allows direct installation of P/N 53-0027 on aeroplanes that are still in pre-SBF100-28-046 configuration, provided this is done within the compliance time as established for that SB in AD 2008-0126 and retained by this new AD.
Effective Date:	12 June 2009
Required Action(s) and Compliance Time(s):	Required as indicated, unless accomplished previously: For aeroplanes in pre-SBF100-28-046 configuration: (1) Within the next 12 calendar months after 22 July 2008 [the effective date of AD 2008-0126], accomplish either paragraph (1.1) or (1.2) below: (1.1) Remove each fuel crossfeed valve actuator with P/N 9409122 from the aeroplane and replace it with a fuel crossfeed valve actuator P/N 53-0013 and accomplish the associated modifications in accordance with the Accomplishment Instructions of Fokker Services SBF100-28-046. (1.2) Remove each fuel crossfeed valve actuator with P/N 9409122 from the aeroplane and replace it with a fuel crossfeed valve actuator P/N 53-0027 and accomplish the associated modifications in accordance with Part 1A or 1B, as applicable, of the Accomplishment Instructions of Fokker Services SBF100-28-061. For aeroplanes in post-SBF100-28-046 configuration, which includes aeroplanes that have complied with the requirement of paragraph (1.1) of this AD: (2) Within the next 18 months after the effective date of this AD, remove each fuel crossfeed valve actuator with P/N 53-0013 from the aeroplane and replace it with a fuel crossfeed valve actuator P/N 53-0027 in accordance with Part 2 of the Accomplishment Instructions of Fokker Services SBF100-28-061. (3) After 12 December 2010, do not install a P/N 53-0013 fuel crossfeed valve actuator on any aeroplane. Note: After installation of P/N 53-0013 or P/N 53-0027 fuel crossfeed valve actuators on an aeroplane, the requirements of EASA AD 2007-0122 no longer apply to the fuel crossfeed valve actuators installed on that aeroplane.
Ref. Publications:	Fokker Services SBF100-28-046 dated 27 March 2008. Fokker Services SBF100-28-061 dated 20 April 2009. The use of later approved revisions of these documents is acceptable for compliance with the requirements of this AD.
Remarks :	1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD. 2. The required actions and the risk allowance have granted the issuance of a Final AD with Request for Comments, postponing the public consultation process after publication. 3. Enquiries regarding this AD should be referred to the Airworthiness

	Directives, Safety Management & Research Section, Certification Directorate, EASA. E-mail ADs@easa.europa.eu 4. For any question concerning the technical content of the requirements in this AD, please contact: Fokker Services B.V., Technical Services Dept., P.O.Box 231, 2150 AE Nieuw-Vennep, The Netherlands; telephone +31 252 627 350; facsimile + 31 252 627 211; e-mail: technicalservices.fokkerservices@stork.com The referenced publication can be downloaded from www.myfokkerfleet.com
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