

EASA	AIRWORTHINESS DIRECTIVE
	AD No.: 2014-0184 Date: 07 August 2014 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 EU 748/2012, Part 21.A.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].	
Design Approval Holder's Name : DASSAULT AVIATION	Type/Model designation(s) : Falcon 900EX and Falcon 2000EX aeroplanes
TCDS Numbers: EASA.A.062 and EASA.A.008	
Foreign AD : Not applicable	
Supersedure : None	
ATA 27	Flight Controls – Aileron Servo Actuators – Replacement
Manufacturer(s):	Dassault Aviation
Applicability:	Falcon 900EX aeroplanes, all serial numbers (s/n), and Falcon 2000EX aeroplanes, all s/n.
Reason:	A quality review of recently delivered aeroplanes identified a non-conformity concerning the torque value applied to screw-nuts of aileron servo actuators, which was inconsistent with the value specified by the type design. The subsequent investigation demonstrated that the washer which is bent on nut and rod ensures the affected selector synchronisation between two servo actuator barrels for a minimum of 2 000 flight hours (FH). After this period, a possible de-synchronization of the affected selector assembly may occur. This condition, if not corrected, could lead to reduced control of the aeroplane during roll manoeuvres at low altitude. To address this potential unsafe condition, Dassault Aviation issued Service Bulletin (SB) F900EX-476 Revision 1 and SB F2000EX-350 to provide replacement instructions for the affected aileron servo actuators, as applicable to aeroplane type. For the reasons described above, this AD requires replacement of affected aileron servo actuators with serviceable parts. This AD also identifies that the affected aileron servo actuators can be re-qualified as serviceable parts only after a refurbishment accomplished by an approved maintenance organisation.
Effective Date:	21 August 2014

Required Action(s) and Compliance Time(s):	Required as indicated, unless accomplished previously: (1) Within 25 months or 1 640 FH since first delivery date after the aeroplane manufacturing, whichever occurs first, or within 1 640 FH after replacement of the aileron servo-actuator during maintenance, as applicable, replace each affected aileron servo actuator, as identified in Appendix 1 (Falcon 900EX) or Appendix 2 (Falcon 2000EX) of this AD, with a serviceable part in accordance with the instructions of Dassault Aviation SB F900EX-476 Revision 1 or SB F2000EX-350, as applicable to aeroplane type. Note 1: The affected aileron servo actuators are known to be installed: • Prior to aeroplane delivery, on Falcon 900EX aeroplanes s/n 265 through 270 inclusive, s/n 272 and s/n 273; and on Falcon 2000EX aeroplanes, s/n 243, s/n 246 through 258 inclusive, s/n 260 through 263 inclusive, s/n 702 through 710 inclusive and s/n 714, • After aeroplane delivery, during a maintenance operation on Falcon 900EX aeroplane s/n 177. (2) From the effective date of this AD, installation on an aeroplane of an aileron servo actuator having a Part Number (P/N) and s/n as listed in Appendix 1 or Appendix 2 of this AD is allowed, provided the mark “D1” is stated on the actuator repair placard. Note 2: Mark “D1” on an aileron servo actuator repair placard indicates that the affected part has been refurbished by an approved maintenance organisation and is qualified as a serviceable part.
Ref. Publications:	Dassault Aviation SB F900EX-476 Revision 1 dated 25 June 2014. Dassault Aviation SB F2000EX-350 dated 09 April 2014. 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. This AD was posted on 01 July 2014 as PAD 14-105 for consultation until 29 July 2014. No comments were received during the consultation period. 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 questions concerning the technical content of the requirements in this AD, please contact your Dassault Falcon Technical Centre: • For Europe, Middle East and Africa based operators: (33) 1 47 11 37 37 / Fax: (33) 1 47 11 89 49 • For USA, Canada and Mexico based operators: (1) 800-2FALCON (2325266) / Fax: (1) 201 541 4740 • All other areas: (1) 201 541 4747 / Fax: (1) 201 541 4740

Appendix 1 – Affected Aileron Servo Actuators installed on F900EX aeroplanes

F900EX s/n	Actuator P/N	Actuator s/n
177	103117-06	5003
265	103117-06	5002
266	103117-05	5000
	103117-06	5007
267	103117-05	5001
268	103117-05	5004
269	103117-05	5005
	103117-06	5011
270	103117-06	5012
	103117-13	5017
272	103117-05	5010
	103117-14	5016
273	103117-13	5014
	103117-14	5020

Appendix 2 – Affected Aileron Servo Actuators installed on F2000EX aeroplanes

F2000EX s/n	Actuator P/N	Actuator s/n
243	103151-08	5002
246	103151-07	5000
	103151-08	5003
247	103151-07	5001
	103151-08	5006
248	103151-07	5004
	103151-08	5007
249	103151-07	5005
	103151-08	5012
250	103151-07	5008
	103151-08	5013
251	103151-07	5009
	103151-08	5014
252	103151-07	5011
	103151-08	5016
253	103151-07	5010
	103151-08	5015
254	103151-08	5017
	103151-07	5018
255	103151-07	5019
	103151-08	5022
256	103151-07	5021
	103151-08	5023
257	103151-08	5024
	103151-07	5026
258	103151-07	5027
	103151-08	5033

F2000EX s/n	Actuator P/N	Actuator s/n
260	103151-08	5032
	103151-07	5035
261	103151-08	5037
	103151-07	5041
262	103151-08	5039
	103151-07	5047
263	103151-08	5044
	103151-09	5064
702	103151-07	5029
703	103151-07	5034
	103151-08	5042
704	103151-08	5036
	103151-07	5040
705	103151-08	5038
	103151-07	5046
706	103151-08	5043
	103151-07	5048
707	103151-07	5054
	103151-08	5057
708	103151-08	5045
	103151-07	5050
709	103151-08	5074
710	103151-07	5051
	103151-08	5053
714	103151-09	5065
	103151-10	5067