

EASA	AIRWORTHINESS DIRECTIVE
	AD No.: 2009-0233 Date: 28 October 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 Airworthiness Directive applies, except in accordance with the requirements of that Airworthiness Directive 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 : None	Type/Model designation(s) : AS 202 "Bravo" aeroplanes
SAS Number : EASA SAS.A.067	
Foreign AD : Not applicable	
Supersedure : This AD supersedes AD 2009-0177 dated 05 August 2009	
ATA 28	Fuel – Fuel Suction Tube – Inspections / Replacement
Manufacturer(s):	FFA Flugzeugwerke Altenrhein AG
Applicability:	Model AS 202/15 and AS 202/18A aeroplanes, all serial numbers.
Reason:	Fuel suction tube assembly Part Number (P/N) SA202-18112-07 is mounted in Support P/N SA202-18112-25 (in the LH tank) and P/N SA202-18112-26 (in the RH tank). A rubber seal installed in the support is meant to prevent the suction tube assembly from fraying against the support. Fraying of the tube assembly against the support may cause the fuel suction tube to be damaged to such an extent that the metallic support protrudes inside the tube, therefore reducing the fuel flow section area. As a result insufficient fuel is delivered to the engine leading to fuel starvation. Investigation of a recent accident involving an AS 202/15 revealed that the above described failure condition was the most likely cause of the engine loss of power. AD 2009-0177 was issued to mandate initial and repetitive inspections of the fuel suction tube assemblies and the repair or replacement of any damaged fuel suction tube assemblies on all AS 202/15 aeroplanes. Further investigations revealed that the fuel tanks of the AS 202/18A aeroplanes are of a similar design to model AS 202/15 aeroplanes. For the reasons described above, this AD supersedes AD 2009-0177 and extends the requirements to model AS 202/18A aeroplanes.

	Remark: Model AS 202/15-1, AS 202/18A1, AS 202/18A2, AS 202/18A3 and AS 202/18A4 aeroplanes are not concerned by this AD.
Effective Date:	11 November 2009
Required action(s) and Compliance Time(s):	(1) Within 15 Flight Hours (FH) after the effective date of this AD, unless already accomplished within the last 100FH, and thereafter at intervals not to exceed 500 FH from the last inspection, inspect for damage the fuel suction tube assembly P/N SA202-18112-07 in both fuel tanks. The fuel suction tubes are located inside the fuel tanks. To gain access, remove the fuel level sensor P/N SA210-08095-01 per chapter 28-40-01 of the AS 202 Shop Manual and Parts Catalogue. For the inspections, remove the fuel suction tube assembly and thoroughly inspect the interface area between the fuel suction tube assembly P/N SA202-18112-07 and its support P/N SA202-18112-25 (for the LH tank) and P/N SA202-18112-26 (for the RH tank). After reinstalling the fuel level sensor P/N SA210-08095-01 do a calibration test of the fuel indicating system per chapter 28-40-01 of the AS 202 Shop Manual and Parts Catalogue. (1.1) If any damage is found (dent, nick, fretting), before further flight replace the fuel suction tube assembly by a serviceable one or repair the fuel suction tube assembly in accordance with an approved-repair procedure. Note: See also photographs given in Appendix 1 of this AD. (2) The replacement or repair of the fuel suction tubes does not terminate the repetitive inspection requirements of paragraph (1) of this AD. (3) Within 30 days after any inspections, report all inspection results, negative or positive, to the Swiss Federal Office of Civil Aviation (FOCA). For that purpose, use the contact details as given in the 'Remarks' section of this AD.
Ref. Publications:	AS 202 Shop Manual and Parts Catalogue chapter 5-20-00. AS 202 Shop Manual and Parts Catalogue chapter 28-40-01, Fuel level indication LH/RH maintenance instructions.
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 questions concerning the technical content of the requirements in this AD, please contact: Federal Office of Civil Aviation (FOCA) Design and Production (STEH) CH-3003 Bern Fax: +41 (0) 31 322 59 18 E-mail: airdir@bazl.admin.ch

Appendix 1



Photo 1

Area to be inspected as seen from top of the fuel tank with Fuel level sensor P/N SA 210-08095-01 removed



Photo 2

Example of signs of damage on Fuel suction tube assembly P/N SA202-18112-07