

EASA	AIRWORTHINESS DIRECTIVE
	<p>AD No.: 2008-0183</p> <p>Date: 12 November 2008</p> <p>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.</p>
<p>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].</p>	
<p>Type Approval Holder's Name :</p> <p>Funkwerk Avionics GmbH</p>	<p>Type/Model designation(s) :</p> <p>TRT800A and TRT800H Transponders</p>
<p>ETSO Authorisations: EASA.210.268, EASA.210.269</p>	
<p>Foreign AD :</p>	<p>Not applicable</p>
<p>Supersedure :</p>	<p>None</p>
<p>ATA 34</p>	<p>Navigation – Mode-S Transponders – Replacement</p>
<p>Manufacturer(s):</p>	<p>Funkwerk Avionics GmbH, Filser Electronic GmbH</p>
<p>Applicability:</p>	<p>This AD applies to the following Mode-S transponders, except those marked Mod-Index 10:</p> <ul style="list-style-type: none"> - TRT800A, all Part Numbers (P/N), serial numbers (s/n) up to and including 40539908, and - TRT800H, all P/N, s/n up to and including 30250007. <p>These transponders are known to be installed on, but not limited to, the following aircraft types:</p> <ul style="list-style-type: none"> - APEX (Robin) DR1050, DR250, DR350 and DR400 series aircraft - Cessna 150, 172, 182, 210, T303 and 337 series aircraft, including those originally manufactured by Reims Aviation in France - Diamond Aircraft Industries DV 20 aircraft - Extra EA-300 series aircraft - Grob G 109 B Powered Sailplanes - Grob G 115 series aircraft - Mooney M20J aircraft - Piper PA-28 series aircraft - Scheibe SF 25 C Powered Sailplanes - True Flight Holdings (Grumman, American) AA-5B aircraft.
<p>Reason:</p>	<p>EASA has received reports of intermittent loss of detection on Mode-S Secondary Surveillance Radar (SSR) of aircraft equipped with Funkwerk Avionics TRT800A Transponders. Reports from Air Navigation Service Providers (ANSP), as well as data from flight trials, have shown that the unit fails to perform as expected.</p>

	<p>Based on the information provided in the reports, EASA has determined that operation of these transponders in airspace where Mode S interrogations are used by the ground systems could create disruptions in the Air Traffic Management process, potentially compromising aircraft safety.</p> <p>Consequently, EASA issued AD 2008-0158 to require the implementation of an operational limitation on all aircraft equipped with these transponders, and the installation of a placard in full view of the pilot(s).</p> <p>Funkwerk Avionics has now developed a modification (Mod-Index 10), approved by EASA, which has been demonstrated to remedy the unsafe condition addressed by EASA AD 2008-0158 in the current ATC environment.</p> <p>For the reason described above, this new EASA AD retains the requirements of EASA AD 2008-0158 for TRT800A and TRT800H transponders, although the limitation and placard wording are changed. In addition, this new AD requires replacement of the affected transponders with modified units. Aircraft affected by this AD must introduce the Aircraft Flight Manual (AFM) limitation and placard as specified in this new AD, replacing those introduced by EASA AD 2008-0158, until the transponder is replaced with a modified (Mod-Index 10) unit. After installation of a modified unit, the limitation and placard must be removed from the aircraft. At the same time, AD 2008-0158 has been revised (R2) to transfer the requirements for TRT800A and TRT800H transponders to this new AD.</p> <p>For more details, see EASA Safety Information Bulletin (SIB) 2008-84R1, which identifies further issues which may lead to future AD action.</p>
Effective Date:	19 November 2008
Required Action(s) and Compliance Time(s):	<p>Required as indicated, unless accomplished previously:</p> <p>(1) Within 7 days after the effective date of this AD, accomplish the following:</p> <p>(a) Amend the applicable AFM, section Limitations, to include the following:</p> <p>“Due to a performance problem of the transponder, do not operate this aircraft in airspace where a transponder is required, except as published by the appropriate ATS (Air Traffic Service) Authority”.</p> <p>This may be accomplished by inserting a copy of this AD into the AFM, section Limitations.</p> <p>(b) Install a placard in full view of the pilot(s), with the following instructions:</p> <p>“Do not operate this aircraft in airspace where a transponder is required, except as published by the appropriate ATS (Air Traffic Service) Authority”.</p> <p>Note: The AFM limitation and placard as required by paragraph (1) of this AD replace those previously required by EASA AD 2008-0158, which must be removed.</p> <p>(2) Within the next 24 months after the effective date of this AD, replace the affected transponder with a unit that has been modified in accordance with Funkwerk Avionics Service Bulletin (SB) TRT800-A-H-1 Revision 1.04 dated 17 October 2008.</p> <p>(3) After modification of an aircraft as required by paragraph (2) of this AD, the AFM limitation and placard as required by paragraph (1) of this AD are no longer necessary and shall be removed from the aircraft.</p> <p>(4) After 18 November 2010, no person shall install a transponder, as identified in the Applicability of this AD, on any aircraft, unless it has been modified in accordance with Funkwerk Avionics SB TRT800-A-H-1 Revision 1.04 dated 17 October 2008.</p>
Ref. Publications:	Funkwerk Avionics SB TRT800-A-H-1 Revision 1.04 dated 17 October 2008.

	<p>The use of later approved revisions of this document is acceptable for compliance with the requirements of this AD.</p> <p>EASA Safety Information Bulletin 2008-84R1 dated 12 November 2008.</p>
Remarks :	<ol style="list-style-type: none">1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD.2. This AD was posted on 17 October 2008 as PAD 08-117 for consultation until 31 October 2008. 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.eu4. For any question concerning the technical content of the requirements in this AD, please contact: Funkwerk Avionics GmbH, Gewerbestrasse 2, D-86875, Waal, Federal Republic of Germany Telephone +49 (0)8246 96 99 0, Fax: +49 (0)8246 1049 E-mail service@funkwerk-avionics.com Website: http://shop.funkwerk-avionics.com