


EASA	NOTIFICATION OF A PROPOSAL TO ISSUE AN AIRWORTHINESS DIRECTIVE						
	<p>PAD No.: 10-009</p> <p>Date: 13 January 2010</p> <p>Note: This Proposed Airworthiness Directive (PAD) 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>In accordance with the EASA Continuing Airworthiness Procedures, the Executive Director is proposing the issuance of an EASA Airworthiness Directive (AD), applicable to the aeronautical product(s) identified below.</p> <p>All interested persons may send their comments, referencing the PAD Number above, to the e-mail address specified in the 'Remarks' section, prior to the consultation closing date indicated.</p>							
<p>Type Approval Holder's Name :</p> <p>Rockwell-Collins Inc.</p>	<p>Type/Model designation(s) :</p> <p>TDR-94/94D Transponders</p>						
ETSO Approval Nr: : EASA.21O.280 Rev.C							
Foreign AD : None							
Supersedure : None							
ATA 34	Navigation Systems – Mode-S Transponder – Modification / Replacement						
Manufacturer(s):	Rockwell-Collins Inc.						
Applicability:	<p>Rockwell Collins Mode S Transponders identified by type and Part Number (P/N) as follows:</p> <table border="1"> <thead> <tr> <th>Type</th><th>P/N (all serial numbers)</th></tr> </thead> <tbody> <tr> <td>TDR-94</td><td>622-9352-007, 622-9352-207, 622-9352-008, 622-9352-108, 622-9352-308, 622-9352-309, 622-9352-408, 622-9352-409</td></tr> <tr> <td>TDR-94D</td><td>622-9210-007, 622-9210-207, 622-9210-008, 622-9210-108, 622-9210-308, 622-9210-309, 622-9210-408, 622-9210-409</td></tr> </tbody> </table> <p>when installed in combination with Rockwell Collins model ADC-81(), ADC-82() or ADC-85() Air Data Computers (ADC), and the Rockwell Collins Commercial Standard Digital Bus (CSDB) databus is being used to transfer altitude information between the ADC and the transponder(s).</p> <p>This AD applies only to fixed-wing aeroplanes with these transponders installed and operating under Instrument Flight Rules (IFR) in the designated Enhanced Surveillance (EHS) airspace in Europe.</p> <p>These transponders, in combination with CDSB altitude information transfer, are known to be installed on, but not limited to:</p> <p>SAAB SF340A and 340B aeroplanes.</p> <p>For more information regarding Mode-S EHS, please consult the EUROCONTROL website at www.eurocontrol.int/msa/public/standard_page/nv_modes_homepage.html</p>	Type	P/N (all serial numbers)	TDR-94	622-9352-007, 622-9352-207, 622-9352-008, 622-9352-108, 622-9352-308, 622-9352-309, 622-9352-408, 622-9352-409	TDR-94D	622-9210-007, 622-9210-207, 622-9210-008, 622-9210-108, 622-9210-308, 622-9210-309, 622-9210-408, 622-9210-409
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	and local Aeronautical Information Circulars (AIC).												
Reason:	<p>The Rockwell-Collins TDR-94/94D Transponders listed in the applicability section of this AD, when used in combination with certain Rockwell Collins ADC unit(s) and connected through a CSDB type databus may transmit incorrect Selected Altitude parameters due to a databus interface protocol incompatibility.</p> <p>This condition, if not corrected, could result in disruptions in the Air Traffic Management process, potentially compromising aircraft safety.</p> <p>To address and correct this unsafe condition, Rockwell-Collins has developed a software update, available for in-service application through Rockwell-Collins Service Bulletins TDR-94/94D-34-508 and -509, respectively, that remedies the problem.</p> <p>For the reasons described above, this EASA AD requires the modification of all affected Rockwell-Collins TDR-94/94D Mode-S transponders to incorporate the new software update, or replacement of the transponder with a modified unit.</p>												
Effective Date:	[TBD: 14 days after final AD issue date]												
Required Action(s) and Compliance Time(s):	<p>Required as indicated, unless accomplished previously:</p> <p>(1) Within 12 months after the effective date of this AD, accomplish one of the following actions:</p> <p>(1.1) Modify the transponder and the aeroplane in accordance with approved aeroplane modification instructions. Details of the transponder modification are provided in Table 1 and Table 2 of this AD, as applicable to transponder type design.</p> <p>or</p> <p>(1.2) Replace the transponder, in accordance with approved aeroplane modification instructions, with a TDR-94 unit identified by P/N 622-9352-310 or 622-9352-410, or a TDR-94D unit identified by P/N 622-9210-310 or 622-9210-410, as applicable.</p> <table border="1" data-bbox="523 1274 1442 2002"> <tr> <th colspan="3">Table 1 – TDR-94 Transponders</th></tr> <tr> <th>Current P/N</th><th>New P/N (options)</th><th>Rockwell Collins Service Bulletin (SB) instructions to be used for modification</th></tr> <tr> <td>622-9352-007 622-9352-008 622-9352-207 622-9352-308 622-9352-309</td><td>622-9352-310</td><td>TDR-94()-34-508</td></tr> <tr> <td>622-9352-007 622-9352-008 622-9352-108 622-9352-207 622-9352-308 622-9352-309 622-9352-408 622-9352-409</td><td>622-9352-410</td><td>TDR-94()-34-509</td></tr> </table>	Table 1 – TDR-94 Transponders			Current P/N	New P/N (options)	Rockwell Collins Service Bulletin (SB) instructions to be used for modification	622-9352-007 622-9352-008 622-9352-207 622-9352-308 622-9352-309	622-9352-310	TDR-94()-34-508	622-9352-007 622-9352-008 622-9352-108 622-9352-207 622-9352-308 622-9352-309 622-9352-408 622-9352-409	622-9352-410	TDR-94()-34-509
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Ref. Publications:	<p data-bbox="525 1176 1442 1238">Rockwell-Collins, Inc. Service Bulletin TDR-94()-34-508, Publication Number 523-0817821-001000, Initial Release dated 16 September 2009.</p> <p data-bbox="525 1254 1442 1317">Rockwell-Collins, Inc. Service Bulletin TDR-94()-34-509, Publication Number 523-0817822-001000, Initial Release dated 16 September 2009.</p>												
Remarks :	<ol data-bbox="525 1350 1442 1659" style="list-style-type: none"> 1. This Proposed AD will be closed for consultation on 10 February 2010. 2. Enquiries regarding this PAD should be referred to the Airworthiness Directives, Safety Management & Research Section, Certification Directorate, EASA. E-mail ADs@easa.europa.eu. 3. For any question concerning the technical content of the requirements in this PAD, please contact: Rockwell Collins Inc., 400 Collins Road NE, Cedar Rapids, Iowa 52498, United States of America, telephone +1-319-265-5467 Website: www.rockwellcollins.com Email: response@rockwellcollins.com 												