EASA	AIRWORTHINESS DIRECTIVE				
	AD No.: 2009-0173R1				
	Date: 30 September 2010				
E.	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 continuing airworthiness of an aircraft shall be ensured by accomplishing any applicable ADs. Consequently, no personan aircraft to which an AD applies, except in accordance with the requirements of that AD, unless otherwise specified [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)]					
Type Approval Holder's Name :		Type/Model designation(s) :			
Rockwell Collins Ind	с.	TDR-94 and TDR-94D transponders			
ETSO Authorisation N	lumber : EASA.21O.280 R	ev.C			
Foreign AD :	None				
Revision :	Revision : This AD revises EASA AD 2009-0173 dated 05 August 2009.				
ATA 34 Navigation – Mode S Transponder – Modification / Replacemen					
Manufacturer(s):	Rockwell Collins Inc.				
Applicability:	Rockwell Collins Mode S Transponders identified by type and Part Number (P/N) as follows:				
	Type P/N (a	Il serial numbers)			
		352-007, 622-9352-008 and 622-9352-108			
	TDR-94D 622-92	210-007, 622-9210-008 and 622-9210-108			
	when installed in an aeroplane operating in European Designated Mo Airspace and equipped with Honeywell AZ800 or AZ810 (all part num data computers (ADC) where the data bus interface between the Hor ADC and the Rockwell Collins transponder is providing the Selected data input to the transponder.				
	DC combinations are known to be installed on, but not g aeroplanes:				
	 ATR 42 and ATR 72 series; see exemption in paragraph (4) of this AD Bombardier (formerly Canadair) CL-600-2A12 (601 Variant) and CL-60 2B16 (601-3A and 601-3R Variants). Bombardier (formerly De Havilland Canada) DHC-8 series 100, 200 at 300; see exemption in paragraph (5) of this AD. Dassault Aviation Mystère-Falcon 900 series. Gulfstream G-IV. 				
	Note: For more inform	nation regarding Mode-S designated airspace, please of website at <u>www.eurocontrol.int/mode-s</u> and local on Circulars (AIC).			

Reason:	Altitude in Motion transponders is ca Altitude paramete This condition, if r being transmitted Traffic Manageme For the reasons d modification or re reinstallation of ur This AD has been	Bit of label 102 in ausing incorrect tra- er. not corrected, coul to Mode S ground ent process and po- lescribed above, the placement of the a nmodified units.	d GAMA specifications for the Selected certain Rockwell Collins TDR-94 ansmission of the Mode-S EHS Selected Id lead to invalid Selected Altitude data d stations, creating disruptions in the Air otentially compromising aeroplane safety. his new EASA AD requires the affected transponders and prohibits aragraph (5), exempting certain DHC-8 comply with this AD.	
Effective Date:	Revision 1: 14 Oc Original issue: 19			
Required Action(s) and Compliance Time(s):				
	Current P/N	New P/N (options)	Rockwell Collins Service Bulletin (SB) instructions to be used for modification	
			mounouton	
		622-9352-309	TDR-94/94D-34-506	
	622-9352-007	622-9352-309 622-9352-409		
			TDR-94/94D-34-506	
	622-9352-007 622-9352-008	622-9352-409	TDR-94/94D-34-506 TDR-94/94D-34-507	
		622-9352-409 622-9352-309	TDR-94/94D-34-506 TDR-94/94D-34-507 TDR-94/94D-34-505	
	622-9352-008	622-9352-409 622-9352-309 622-9352-409 622-9352-409	TDR-94/94D-34-506 TDR-94/94D-34-507 TDR-94/94D-34-505 TDR-94/94D-34-507	
	622-9352-008	622-9352-409 622-9352-309 622-9352-409 622-9352-409	TDR-94/94D-34-506 TDR-94/94D-34-507 TDR-94/94D-34-505 TDR-94/94D-34-507 TDR-94/94D-34-505	
	622-9352-008 622-9352-108	622-9352-409 622-9352-309 622-9352-409 622-9352-409 Table 2 – TDF	TDR-94/94D-34-506 TDR-94/94D-34-507 TDR-94/94D-34-505 TDR-94/94D-34-507 TDR-94/94D-34-505 R-94/D Transponders Rockwell Collins SB instructions to	
	622-9352-008 622-9352-108	622-9352-409 622-9352-309 622-9352-409 622-9352-409 Table 2 – TDF New P/N (options)	TDR-94/94D-34-506TDR-94/94D-34-507TDR-94/94D-34-505TDR-94/94D-34-507TDR-94/94D-34-505R-94D TranspondersRockwell Collins SB instructions to be used for modification	
	622-9352-008 622-9352-108 Current P/N 622-9210-007	622-9352-409 622-9352-309 622-9352-409 622-9352-409 Table 2 – TDF New P/N (options) 622-9210-309	TDR-94/94D-34-506 TDR-94/94D-34-507 TDR-94/94D-34-505 TDR-94/94D-34-507 TDR-94/94D-34-505 R-94D Transponders Rockwell Collins SB instructions to be used for modification TDR-94/94D-34-506	
	622-9352-008 622-9352-108	622-9352-409 622-9352-309 622-9352-409 622-9352-409 Table 2 – TDF New P/N (options) 622-9210-309 622-9210-409	TDR-94/94D-34-506 TDR-94/94D-34-507 TDR-94/94D-34-505 TDR-94/94D-34-507 TDR-94/94D-34-505 R-94D Transponders Rockwell Collins SB instructions to be used for modification TDR-94/94D-34-506 TDR-94/94D-34-507	

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) Rockwell Collins TDR 94 transponders with P/N 622-9352-409 and TDR94D transponders with P/N 622-9210-409 are ADS-B capable. Concurrent with accomplishment of the modification of the aeroplane as required by paragraph (1) of this AD, the ADS-B function must be disabled, unless compliance with EASA AMC 20-24 has been demonstrated.	
		(3) After modification of an aeroplane as required by paragraphs (1) of this AD, do not install a transponder, as identified by P/N in the Applicability section of this AD, on that aeroplane.	
		Exemptions:	
		(4) ATR-42 and ATR-72 aeroplanes on which the affected transponder and ADC installation has been done in accordance with an ATR design definition, although equipped with transponders and Honeywell AZ800 or AZ810 ADC as listed in the Applicability section of this AD, are exempt from having to meet the requirements of this AD, since on these aeroplanes' original architecture, the Selected Altitude is not provided by the ADC.	
		(5) DHC-8 Series 100, 200 and 300 aeroplanes, all models, on which the affected transponder and ADC installation has been done in accordance with the applicable Bombardier Type Design definition, although equipped with affected transponders and Honeywell AZ800 or AZ810 ADC as listed in the Applicability section of this AD, are exempt from having to meet the requirements of this AD, since on these aeroplanes' original architecture, the Selected Altitude is not provided by the ADC. This exemption does not apply to aeroplanes that have been modified to enable a digital link between the air data computer and the transponder.	
	Ref. Publications:	Rockwell Collins Service Bulletins:	
		TDR-94/94D-34-505 dated 2 September 2008 TDR-94/94D-34-506 dated 2 September 2008 TDR-94/94D-34-507 dated 9 September 2008	
	Remarks :	 If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD. 	
		 The original issue of this AD was posted on 08 October 2008 as PAD 08- 114 for consultation until 30 October 2008 and subsequently republished on 03 March 2009 as PAD 08-114R1 for extended consultation until 31 March 2009. The Comment Response Document can be found at <u>http://ad.easa.europa.eu</u>. 	
		 Enquiries regarding this AD should be referred to the Airworthiness Directives, Safety Management & Research Section, Certification Directorate, EASA; E-mail <u>ADs@easa.europa.eu</u>. 	
		4. For any question concerning the technical content of the requirements in this AD, please contact: Rockwell Collins Inc., 400 Collins Road NE, Cedar Rapids, Iowa 52498, United States of America, telephone +1-319-265-5467 Website: <u>www.rockwellcollins.com</u> Email: <u>response@rockwellcollins.com</u>	

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