


<b>EASA</b>	<b>NOTIFICATION OF A PROPOSAL TO ISSUE AN AIRWORTHINESS DIRECTIVE</b>
	<p><b>PAD No.: 12-151</b></p> <p><b>Date: 27 November 2012</b></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. 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><b>Type Approval Holder's Name :</b></p> <p><b>AmSafe</b>  <b>Anjou Aeronautique</b>  <b>Davis Aircraft Products Co.</b>  <b>Schroth Safety Products GmbH</b>  <b>Pacific Scientific</b></p>	<p><b>Type/Model designation(s) :</b></p> <p><b>Safety Belts / Torso Restraint Systems</b></p>
(E)TSOA Number : Various	
Foreign AD : Not applicable	
Supersedure : None	
<b>ATA 25</b>	<b>Equipment &amp; Furnishings – Safety Belts / Torso Restraint Systems – Inspection / Replacement</b>
<b>Manufacturer(s):</b>	<p>AmSafe;</p> <p>Anjou Aeronautique (formerly TRW Repa S.A., formerly L'Aiglou);</p> <p>Davis Aircraft Products Co.;</p> <p>Schroth Safety Products GmbH;</p> <p>Pacific Scientific.</p>
<b>Applicability:</b>	<p>All part numbers of safety belts and torso restraint systems installed on any aircraft where dynamically tested seats are required in accordance with Certification Specifications (CS) para. 23.562, 25.562, 27.562 and 29.562, if safety belts and torso restraint systems have been maintained or repaired after 28 September 2003 by maintenance organizations not holding the applicable maintenance data of the relevant approval holders, unless they are marked with European Parts Approval (EPA).</p> <p>The affected safety belts and torso restraint systems may be installed on, but not limited to, the aircraft listed in Appendix 1 of this AD.</p> <p>Note: This AD is applicable to safety belts and torso restraint systems, whose Component Maintenance Manuals (CMM) explicitly prohibit webbing replacement, unless this is accomplished by the design approval holder or by a repair station/maintenance organization authorized by the design approval holder.</p>

Reason:	<p>As a result of an investigation on some maintenance organisations, EASA was made aware that safety belts and torso restraint systems manufactured by design approval holders, have been maintained or repaired by maintenance organisations without holding approved maintenance data.</p> <p>In particular, the affected restraint systems have been refurbished using webbing materials having mechanical properties significantly different with respect to the materials used to manufacture the original restraint systems (e.g. nylon instead of polyester).</p> <p>Based on tests performed in the frame of an EASA approved STC (refurbishment of seat belts on dynamically tested seats in compliance with CS 25.562) and during a research project on safety belt performance launched by EASA, evidence was gained that different elongation properties of commonly available restraint systems webbing may reduce the energy absorption capability of the seat-restraint system and increase the risk of head injury to the occupant under dynamic crash landing conditions.</p> <p>Maintenance or repair of safety belts and torso restraint systems, if not assessed and justified in accordance with the dynamic test criteria, could therefore result in non-compliance with the applicable certification requirements for emergency landing dynamic conditions.</p> <p>As a consequence, safety belts and torso restraint system could fail to perform their intended function to protect each occupant during an emergency landing condition and to minimise the effects of survivable accidents.</p> <p>For the reasons described above, this AD requires to inspect safety belts and/or torso restraint systems installed on any aircraft (refer to Appendix 1 of this AD) to verify if they have been maintained or repaired by the design approval holder or by a repair station/maintenance organization authorized by the design approval holder, and to replace the affected safety belts and torso restraint systems with serviceable parts.</p>
Effective Date:	[TBD: 14 days after final AD issue date]
Required Action(s) and Compliance Time(s):	<p>Required as indicated, unless previously accomplished:</p> <ol style="list-style-type: none"> <li>(1) Within 6 months after the effective date of this AD, inspect the markings of safety belts and/or torso restraint systems, to determine if they have been maintained or repaired by organisations other than the design approval holder. A review of the applicable maintenance records is acceptable to identify the safety belts and/or torso restraint systems as specified in this paragraph, provided those records can be relied upon for that purpose, and the affected safety belts and/or torso restraint systems can be conclusively identified from that review.</li> <li>(2) If safety belts and torso restraint systems have been maintained or repaired by an organisation other than the design approval holder, within 1 month after the inspection required by paragraph (1) of this AD, contact the design approval holder of the safety belts and torso restraint systems for confirmation that the maintenance or repair organisation had been authorised by them.</li> <li>(3) If the safety belts and/or torso restraint systems have been maintained or repaired by a repair station/maintenance organization not authorized by the design approval holder, within 18 months after the inspection required by paragraph (1) of this AD, remove the safety belts and/or torso restraint systems and replace them with serviceable parts, or make the relevant seat inoperative.</li> </ol> <p>Note: For the purpose of this AD, serviceable parts are new parts or parts which have been maintained or repaired by the design approval holder or by a repair station/maintenance organization authorized by the design approval holder.</p>

	(4) After the effective date of this AD, do not install safety belts or torso restraint systems on any aircraft, unless inspected and corrected in compliance with the requirements of this AD.
Ref. Publications:	Pacific Scientific Service Information Letter (SIL) NO. 25-0303A dated 13 November 2012.
Remarks:	<p>1. This Proposed AD will be closed for consultation on 27 December 2012.</p> <p>2. Enquiries regarding this PAD should be referred to Safety Information Section, Executive Directorate, EASA. E-mail: <a href="mailto:ADs@easa.europa.eu">ADs@easa.europa.eu</a>.</p> <p>3. For any question concerning the technical content of the requirements in this PAD, please contact:</p> <p>AmSafe Aviation, 1043 N. 47th Avenue - Phoenix, Arizona 85043; Phone: +1 602 850 2850; Fax: +1 602 850 2812 ;</p> <p>Anjou Aeronautique, 13 Avenue De L'Osier, 49125 Tierce, France; Phone: +33 (0) 2 41 42 88 92; Fax: +33 (0) 2 41 42 15 77;</p> <p>Davis Aircraft Products Co Inc., 1150 Walnut Avenue - Bohemia, New York 11716; Phone +1 631-563-1500 ; Fax +1 631-563-1117;</p> <p>Pacific Scientific Aviation Services, 11700 N.W. 102<sup>nd</sup> Rd. #6 - Miami, Florida 33178; Phone: +1 305 477 4711 ; Fax +1 305 477 9799;</p> <p>Schroth Safety Products GmbH, Im Ohl 14, D-59757 Arnsberg, Germany; Phone +49 (0) 29 32-97 42 0 ; Fax +49 (0) 29 32-97 42 42.</p>

## APPENDIX 1

### General Aviation

TC HOLDER	TYPE	MODEL
Aero Vodochody a.s.	Ae 270	Ae 270
Costruzioni Aeronautiche TECNAM S.r.l	P2006	P2006T
Diamond Aircraft Industries GmbH	DA 40	DA 40, 40D, 40F, 40NG
	DA 42	DA 42, 42M, 42M-NG, 42M NG
	DA-42 (Restricted)	DA 42 M (R), M-NG ®
Extra Flugzeugproduktions- und Vertriebs GmbH	EA 400	EA 400, 400-500
Gomolzig Flugzeug- und Maschinenbau GmbH	R 90-230RG	R 90-230RG
Grob Aircraft AG	G 120	G 120A , 120A-I
Instytut Lotnictwa	I-23	I-23
OMA SUD Sky Technologies S.p.A.	SKYCAR	SKYCAR
Pilatus Aircraft Ltd	PC-12	PC-12, 12/45, 12/47
SOCATA	TBM 700	TBM 700 C2 and N models
XtremeAir GmbH	XA42	XA41, XA42
ZAKŁADY LOTNICZE Margański & Mysłowski Sp. z o.o.	EM-11C ORKA	EM-11C ORKA
ZLIN Aircraft a.s.	Z 143	Z 143 L, 143 Lsi
	Z 242	Z 242 L
Hoffmann	H40	H40
Cessna Aircraft Company	172 (Skyhawk)	172R , 172S
	182 (Skylane)	182S , 182T, T182T
	206H (Stationair)	206H, T206H
	208 (Caravan I)	208, 208B
	510 (Mustang)	510
	525 (CitationJet)	525, 525A, 525B, 525C
	LC40 (Cessna 300)	LC40-550FG (Corvalis)
	LC41 (Cessna 400)	LC41-550FG (Corvalis TT)
Cirrus Design Corporation	SR20/22	SR20, SR22, SR22T
Eclipse Aerospace Incorporated	EA500	EA500
Empresa Brasileira de Aeronáutica SA	EMB-500 (Phenom 100)	EMB-500
	EMB-505 (Phenom 300)	EMB-505
GA8 Airvan Pty Ltd	GA8	GA8, -TC 320
Hawker Beechcraft Corporation	390	390 (Premier I), (Premier IA)
Liberty Aerospace Incorporated	XL-2	XL-2 Yes for s/n 0007 and 0009 through 0125 that have not been modified per Liberty gross weight increase kit RKI-SIL-08-001
Pacific Aerospace Ltd.	750XL	750XL
NAFTAA	OMF-100	OMF-100-160

**Large Aeroplanes**

TC HOLDER	TYPE	MODEL
328 Support Services	Dornier 328	
Airbus	A318	
	A330	
	A340	
	A380	
Alenia Aeronautica	C27J	
Antonov	AN124-100	
	AN-26	
Bae Systems (Operations) Ltd	Jetstream 4100 Series	
Boeing	B737 NG	B737-600 & -700 (146-149 PAX) B737-800 & -900 (181-189 PAX)
	B747	B747-8
	B767	B767-400ER
	B777	
	B787	
Bombardier	BD-100	
	BD-700	
	CL-600	
	DHC-8 Series	DHC-8-400 Series
Cessna	Cessna 560 XL, Variant XLS+	
	Cessna 680	
	Cessna 750	
Dassault Aviation	Falcon 2000, 2000 EX	
	Falcon 7X	
Embraer	EMB-135/-145	
	ERJ-170	
	ERJ-190	
Fokker Services B.V.	Fokker F28 series	F28 Mark 0070
Gulfstream Aerospace Corporation	GI, GII, GIII, GIV, GIV-X, GV, GV-SP, GVI	
Gulfstream Aerospace LP	G150	
	G200/Galaxy	
Hawker Beechcraft Corporation	Hawker 4000	
Learjet	Learjet 45	
SAAB AB	Saab 2000	
Sukhoi	Sukhoi RRJ	

**Rotorcraft**

TC HOLDER	TYPE	MODEL
Bell Helicopter Textron Canada Ltd	427	
	429	
Eurocopter	EC 120 B	
	EC130 T2	
	EC225LP	Potentially affected for new cabin layouts.
Eurocopter Deutschland	MBB-BK117 C-2	
	EC135	
AgustaWestland	AB139, AW139	
	A109S, A109SP	Potentially affected: Compliant Seat kits have been installed
Sikorsky	S-92A	
Guimbal	Cabri G2	
PZL	SW-4	
MD Helicopters Inc.	MD-900	