



## **Introduction**

This Special Airworthiness Information Bulletin (SAIB) informs registered owners/operators of an airworthiness concern for aircraft with an **Aspen Avionics, Inc. (Aspen), Evolution EFD1000 Primary Flight Display (PFD), an EFD1000 Multi-Function Display (MFD), and/or an EFD500 MFD** unit as installed by Supplementary Type Certificate (STC) No. SA10822SC. These units are installed in different configurations on, but not limited to, the aircraft makes and models listed in the attachment below. Specifically, this SAIB notifies owners and operators of temporary loss of all flight display information due to blanking during reset. In installations where multiple Aspen EFDs provide redundancy, this may result in loss of all altitude and airspeed reference during the reset period.

At this time, the airworthiness concern is not an unsafe condition that would warrant airworthiness directive (AD) action under Title 14 of the Code of Federal Regulations (14 CFR) part 39.

## **Background**

We were recently notified that there have been numerous reports of Aspen EFD1000 PFD, EFD1000 MFD, EFD1000 EBD, and EFD500 MFD units with software version 2.9 and the ADS-B IN (FIS-B) Weather Interface option repeatedly resetting itself in-flight. The reset occurs between five- to ten-minute intervals. During the time of the reset, the pilot might not have any EFD displayed information including access to altitude and airspeed for up to one minute. The cause of this safety issue is currently under investigation; however, preliminary information suggests that the cause of the continuous reset is related to the ADS-B IN interface. Pulling the ADS-B circuit breaker as described in section 3.2.6 of the Flight Manual supplement, has been demonstrated to resolve the issue.

## **Recommendations**

The FAA recommends that owners and operators flying with Aspen EFD1000 and/or EFD500 units with software version 2.9 and the ADS-B IN (FIS-B) Weather Interface option installed restrict flight to Visual Flight Rules only and suspend night operations to allow safe operation in the event of loss of flight display functionality. Alternatively, the FAA recommends disabling the ADS-B IN (FIS-B) option.

The FAA requests that owners and operators of any ADS-B IN (FIS-B) enabled aircraft and the owners and operators of Aspen EFD flight display notify the FAA contact listed below of any similar events.

Owners and operators should be advised that service information from Aspen is forthcoming.

A federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with a collection of information subject to the requirements of the Paperwork Reduction Act unless that collection of information displays a current

valid OMB Control Number. The OMB Control Number for this information collection is 2120-0056. Public reporting for this collection of information is estimated to be approximately 5 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. All responses to this collection of information are voluntary. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to: Information Collection Clearance Officer, Federal Aviation Administration, 10101 Hillwood Parkway, Fort Worth, TX 76177-1524.

**For Further Information Contact**

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SAIB Attachment

**FAA APPROVED MODEL LIST (AML)**

STC No. SA10822SC

Aspen Avionics, Inc.  
5001 Indian School NE  
Albuquerque, NM 87110 USA

Date of issuance: March 28, 2008

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<b>Aircraft Make</b>	<b>Aircraft Model(s)</b>	<b>Type Certificate Number ( TCDS )</b>	<b>Certification Basis</b>	<b>Class 1 or 2</b>
Aermacchi S.p.A	S.205-18/F, S.205-18/R, S.205-20/F, S.205-20/R, S.205-22/R, S.208, S.208A	A9EU	FAR 23	1
Aero Commander (Dynac Aerospace Corp.)	10, 10A, 100, 100A, 100-180	1A21	CAR 3	1
Aeronautica Macchi S.p.A	AL 60, AL 60-B, AL 60-F5, AL 60-C5	7A12	CAR 3	1
Aerostar Aircraft Corporation	PA-60-600, PA-60-601, PA60-601P, PA60-602P	A17WE	FAR 23	2
Alexandria Aircraft, LLC (Bellanca)	14-19, 14-19-2, 14-19-3, 14-19-3A, 17-30, 17-31, 17-31TC	1A3	CAR 3	1
	17-30A, 17-31A, 17-31ATC	A18CE	FAR 23	1
American Champion	402	A3CE	CAR 3	2
	8KCAB, 8GCBC	A21CE	FAR 23	1
	7ECA, 7GCAA, 7GCBC, 7KCAB	A-759*	CAR 4A	1
APEX Aircraft	CAP 10B	A36EU	FAR 21	1
Cessna	120, 140	A-768	CAR 3	1
	140A	5A2	CAR 3	1
	150, 150A, 150B, 150C 150D, 150E, 150F, 150G, 150H, 150J, 150K, 150L, 150M, A150K, A150L, A150M, 152, A152	3A19	CAR 3, FAR 23	1
	170, 170A, 170B	A-799	CAR 3	1
	172, 172A, 172B, 172C, 172D, 172E, 172F, 172G, 172H, 172I, 172K, 172L, 172M, 172N, 172P, 172Q, 172R, 172S	3A12	CAR 3, FAR 23	1
	172RG, P172D, R172E, R172F, R172G, R172H, R172J, R172K, 175, 175A, 175B, 175C	3A17	CAR 3	1

Cessna (Continued)	177, 177A, 177B	A13CE	FAR 23	1
	177RG	A20CE	FAR 23	1
	180, 180A,180B, 180C, 180D, 180E, 180F, 180G, 180H, 180J, 180K	5A6	CAR 3	1
	182, 182A, 182B, 182C, 182D, 182E, 182F, 182G, 182H, 182J, 182K, 182L, 182M, 182N, 182P, 182Q, 182R, 182S, 182T, R182, T182, TR182, T182T	3A13	CAR 3, FAR 23	1
	185, 185A, 185B, 185C, 185D, 185E, A185E, A185F	3A24	CAR 3	1
	210, 210A, 210B, 210C, 210D, 210E, 210F, T210F, 210G, T210G, 210H, T210H, 210J, T210J, 210K, T210K, 210L, T210L, 210M, T210M, 210N, P210N, T210N, 210R, P210R, T210R, 210-5, 210-5A	3A21	CAR 3	1
	206, P206, P206A, P206B, P206C, P206D, P206E, TP206A, TP206B, TP206C, TP206D, TP206E, U206, U206A, U206B, U206C, U206D, U206E, U206F, U206G, TU206A, TU206B, TU206C, TU206D, TU206E, TU206F, TU206G, 206H, T206H	A4CE	CAR 3	1
	207, 207A, T207, T207A	A16CE	FAR 23	1
	T-303 (Crusader)	A34CE	FAR 23	2
	310, 310A (USAF U-3A), 310B, 310C, 310D, 310E(USAF U-3B), 310F, 310G, 310H, E310H, 310I, 310J, 310J-1, E310J, 310K, 310L, 310N, 310P, T310P, 310Q, T310Q, 310R, T310R	3A10	CAR 3	2
	320, 320A, 320B, 320C, 320D, 320E, 320F, 320-1, 335, 340, 340A	3A25	CAR 3	2
	336	A2CE	CAR 3	2
	337, 337A , 337B, T337B, 337C, 337E, T337E, T337C, 337D, T337D, M337B, 337F, T337F, 337G, T337G, 337H, P337H, T337H, T337H- SP	A6CE	CAR 3, FAR 23	2
	LC40-550FG, LC41-550FG, LC42-550FG	A00003SE	FAR 23	1
Cirrus Design Corp.	SR20, SR22	A00009CH	FAR 23	1
Consolidated Vultee Aircraft Corporation	V-77 (Army AT-19),	A-774	Car 4a	1
CPAC, Inc. (Commander Aircraft Co.)	112, 112TC, 112B, 112TCA, 114, 114A, 114B, 114TC	A12SO	CAR 3	1
Cub Crafters	CC18-180, CC18-180A	A00006SE	FAR 23	1
Diamond Aircraft Company	DA 20-A1, DA20-C1	TA4CH	FAR 23	1
	DA 40, DA 40F	A47CE	FAR 23	1

Extra (Extra Flugzeugbau GmbH)	EA-300, EA-300L, EA-300S, EA-300/200	A67EU	FAR 23	1
	EA-400	A43CE	FAR 23	1
Found Aircraft Development, Inc.	FBA-2C, FBA-2C1, FBA-2C2	A7EA	CAR 3, FAR 23	1
FS 2003 Corporation	PA-12, PA-12S	A-780	CAR 3	1
Gulfstream American Corporation	G44, G44A, SCAN Type 30	A-734	CAR 4a	2
Grob-Werke	G115, G115A, G115B, G115C, G115C2, G115D, G115D2, G115EG	A57EU	FAR 23	1
	G120A	A49CE	FAR 23	1
Hawker Beechcraft	35-33, 35-A33, 35-B33, 35-C33, 35-C33A, E33, E33A, E33C, F33, F33A, F33C, G33, H35, J35, K35, M35, N35, P35, S35, V35, V35A, V35B, 36, A36, A36TC, B36TC	3A15*	CAR 3	1
	35, A35, B35, C35, D35, E35, F35, G35, 35R	A-777	CAR 3	1
	76	A29CE	FAR 23	1
	95, B95, B95A, D95A, E95, 95-55, 95-A55, 95-B55, 95-B55A, 95-B55B (T-42A), 95-C55, 95-C55A, D55, D55A, E55, E55A, 56TC, A56TC, 58, 58A	3A16*	CAR 3, FAR 23	2
	19A, B19, M19A, 23, A23, A23A, A23-19, A23-24, B23, C23, A24, A24R, B24R, C24R	A1CE	CAR 3	1
	50, B50, C50, D50, D50A, D50B, D50C, D50E, D50E-5990, E50 (L-23D, RL-23D), F50, G50, H50, J50	5A4	CAR 3	2
	45 (YT-34), A45 (T-34A) or (B-45), D45 (T- 34B)	5A3	CAR 3	1
	58P, 58PA, 58TC, 58TCA	A23CE	FAR 23	2
	Helio (Alliance Aircraft Group, LLC)	H-250, H-295, HT-295, H391, H391B, H-395, H-395A, H-700, H-800	1A8	CAR 3
HST-550, HST-550A		A4EA	CAR 3	1
King's Engineering Fellowship (The)	Model 44	A2WI	FAR 23	2
Liberty Aerospace Incorporated	XL-2	A00008DE	FAR 23	1
Lockheed Aircraft Corporation	402-2	2A11	CAR 3	2

Maule	Bee Dee M-4, M-4, M-4C, M-4S, M-4T, M-4-180C, M-4-180S, M-4-180T, M-4-210, M-4-210C, M-4-210S, M-4-210T, M-4-220, M-4-220C, M-4-220S, M-4-220T, M-5-180C, M-5-200, M-5-210C, M-5-210TC, M-5-220C, M-5-235C, M-6-180, M-6-235, M-7-235, MX-7-235, MX-7-180, MX-7-420, MXT-7-180, MT-7-235, M-8-235, MX-7-160, MXT-7-160, MX-7-180A, MXT-7-180A, MX-7-180B, M-7-235B, M-7-235A, M-7-235C, MX-7-180C, M-7-260, MT-7-260, M-7-260C, M-7-420AC, MX-7-160C, MX-7-180AC, M-7-420A, MT-7-420	3A23	CAR 3	1
Mooney Aircraft Corp	M20, M20A, M20B, M20C, M20D, M20E, M20F, M20G, M20J, M20K, M20L, M20M, M20R, M20S	2A3*	CAR 3	1
	M22	A6SW	CAR 3	1
Moravan a.s.	Z-242L, Z-143L	A76EU	FAR 23	1
Pilatus Aircraft	PC-6, PC-6-H1, PC-6-H2, PC-6/350, PC-6/350-H1, PC-6/350-H2, PC-6/A, PC-6/A-H1, PC-6/A-H2, PC-6/B-H2, PC-6/B1-H2, PC-6/B2-H2, PC-6/C-H2, PC-6/C1-H2, PC-6/B2-H4	7A15	CAR 3	1
Piper	PA-18, PA-18S, PA-18-105, PA-18S-105, PA-18A, PA-18-125, PA-18S-125, PA-18AS-125, PA-18-135, PA-18A-135, PA-18S-135, PA-18AS-135, PA-18-150, PA-18A-150, PA-18S-150, PA-18AS-150, PA-19, PA-19 S	1A2	CAR 3	1
	PA-20, PA-20S, PA-20-115, PA-20S-115, PA-20-135, PA-20S-135	1A4	CAR 3	1
	PA-22, PA-22-108, PA-22-135, PA-22S-135, PA-22-150, PA-22S-150, PA-22-160, PA-22S-160	1A6	CAR 3	1
	PA-23, PA-23-160, PA-23-235, PA-23-250	1A10*	CAR 3	2
	PA-24, PA-24-250, PA-24-260, PA-24-400	1A15	CAR 3	1
	PA-28-140, PA-28-150, PA-28-151, PA-28-160, PA-28-161, PA-28-180, PA-28-235, PA-28S-160, PA-28S-180, PA-28-181, PA-28R-180, PA-28R-200, PA-28R-201, PA-28R-201T, PA-28RT-201, PA-28RT-201T, PA-28-201T, PA-28-236	2A13	CAR 3	1
	PA-30, PA-39, PA-40	A1EA	CAR 3	2
	PA-32-260, PA-32-300, PA-32S-300, PA-32R-300, PA-32RT-300, PA-32RT-300T, PA-32R-301(SP), PA-32R-301(HP), PA-32R-301T, PA-32-301, PA-32-301T, PA-32-301FT, PA32-301XTC	A3SO	CAR 3	1
	PA-34-200, PA-34-200T, PA-34-220T	A7SO	CAR 3	2
	PA-44-180, PA-44-180T	A19SO	FAR 23	1
PA-46-310P, PA-46-350P	A25SO*	FAR 23	1	

Prop-Jets, Inc.	200, 200A, 200B, 200C, 200D, 400	3A18	CAR 3	1
PZL (Panstwowe Zaklady Lotnicze)	PZL-104 WILGA 80, PZL-104M WILGA 2000, PZL-104MA WILGA 2000	A55EU	FAR 23	1
	PZL-KOLIBER 150A, PZL-KOLIBER 160A,	A69EU	FAR 23	1
PZL (PZL Mielec)	PZL M20 03	A68EU	FAR 23	2
	PZL M26 01	A44CE	FAR 23	1
Quartz Mountain Aerospace Inc.	11A, 11E	A-804	CAR 3	1
Revo (Global Amphibians LLC)	Colonial C-1, Colonial C-2, Lake LA-4, Lake LA-4A, Lake LA-4P, Lake LA-4-200, Lake Model 250	1A13	CAR 3	1
Robert E. Rust, Jr. (DeHavilland)	DH.C1 Chipmunk 21, DH.C1 Chipmunk 22, DH.C1 Chipmunk 22A	A44EU	FAR 21	1
Rockwell International Corporation	AT-6 (SNJ-2), AT-6A (SNJ-3), AT-6B, AT-6C (SNJ-4), AT-6D (SNJ-5), AT-6F (SNJ-6), BC-1A, SNJ-7, T-6G	A-2-575	Car 4a	1
Sierra Hotel Aero, Inc. (Navion Aircraft Company)	Navion, Navion A, Navion B, Navion D, Navion E, Navion F, Navion G, Navion H	A-782	CAR 3	1
Slingsby Aviation Ltd.	T67M260, T67M260-T3A	A73EU	FAR 23	1
Spartan	7W (Army UC-71)	TC 628	Aeronautical Bulletin 7-A	1
SOCATA (Groupe Aerospatiale)	TB9, TB10, TB20, TB21, TB200	A51EU	FAR 23	1
	Rallye 100S, Rallye 150ST, Rallye 150T, Rallye 235E, Rallye 235C MS880B, MS885, MS894A, MS893A, MS892A-150, MS892E-150, MS893E, MS894E	7A14	CAR 3	1
	GA-7 (Cougar)	A17SO	FAR 23	2
Swift Museum Foundation	GC-1A, GC-1B	A-766	CAR 4a	1
Symphony Aircraft Industries Inc. (Ostmeck. Flugzeugbau GmbH)	OMF-100-160, SA 160	A46CE	FAR 23	1
True Flight Holdings LLC (Tiger Aircraft LLC)	AA-1, AA-1A, AA-1B, AA-1C	A11EA	FAR 23	1
	AA-5, AA-5A, AA-5B, AG-5B	A16EA	FAR 23	1
Twin Commander Aircraft Corp.	500, 520, 560, 560-A	6A1*	CAR 3	2

Univair Aircraft Corporation (Stinson)	108, 108-1, 108-2, 108-3, 108-5	A-767	CAR 3	1
Viking Air Limited (DeHavilland)	DHC-2 Mark I, DHC-2 Mark II, DHC-2 Mark III	A-806	CAR 3	1
Vulcanair S.p.A. (Partenavia)	P68, P68B, P68C, P68C-TC, P68 "Observer," P68 "Observer 2," P68 TC "Observer", AP68TP 300 "Spartacus", AP68TP 600 "Viator"	A31EU	FAR 23	2
WACO Aircraft Company	WACO YMF	ATC 542	Aero 7A	1
Zenair Ltd.	CH2000	TA5CH	FAR 23	1