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SERVICE INFORMATION LETTER

Incorrect Heading Displayed with VM (Heading to Manual) Leg - EPIC Platforms

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Transmittal Information

Publication Number D201609000034

Summary

This is the INITIAL release.

Revision History

This service information letter has had no revision(s) as shown in Table 1.

Table 1. Revision History

Revision Number	Revision Date
0	10 Oct 2016

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1. **General Information**

A. **Effectivity**

(1) This service information letter is applicable to the EPIC platforms given in Table 2.

Table 2. Applicable EPIC Platforms

Type	PN
Leonardo Helicopters AW139	EB7030191-00105 (Phase 4) EB7030191-00107 (Phase 5) EB7030191-00108 (Phase 6) EB7030191-00109 (Phase 6 HW3/PM) EB7030191-00110 (Phase 7) EB7030191-00111 (Phase 7 V1) EB7030191-00111 (Phase 7 V3) EB7030191-00112 (Phase 7 V4)
Cessna Sovereign	EB7031847-00105 (Phase 3) EB7031847-00106 (Phase 4) EB7031847-00108 (Phase 4.1) EB7031847-00109 (Phase 4.2) EB7031847-00111 (Phase 5) EB7031847-00114 (Phase 5.2)
Dassault PRIMUS EPIC F900	EB7036889-00112 EB7036889-00114 (EASy II) EB7036889-00115 (EASy II) EB7036889-00116 (EASy II) EB7036889-00117 (EASy II) EB7036889-00118 (EASy II)
Dassault PRIMUS EPIC F2000	EB7036889-00203 EB7036889-00205 EB7036889-00206 EB7036889-00207 (EASy II) EB7036889-00208 (EASy II)
Dassault F7X	EB7034843-00103 EB7034843-00102 EB7034843-00104 (EASy II) EB7034843-00107 (EASy II)
Embraer 170	PS7027709-00124 (Load 21.2) PS7027709-00126 (Load 21.4) PS7027709-00127 (Load 23.1) PS7027709-00128 (Load 21.5) PS7027709-00129 (Load 23.2)
Embraer 190	PS7027709-00214 (Load 23.1) PS7027709-00215 (Load 21.4) PS7027709-00216 (Load 21.5) PS7027709-00217 (Load 23.2)

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Table 2. Applicable EPIC Platforms (Cont)

Type	PN
Embraer 170/190	PS7027709-00303 (Load 25.1.0.1) PS7027709-00302 (Load 25.2) PS7027709-00304 (Load 25.3) PS7037709-00305 (Load 25.4) PS7027709-00309 (Load 25.5.0.1) PS7027709-00310 (Load 25.6)
Gulfstream G450	EB7031236-00409 (Foxtrot) EB7031236-00410 (Delta) EB7031236-00411 (Echo) EB7031236-00414 (Foxtrot) EB7031236-00415 (Foxtrot SSEC) EB7031236-00416 (ASC 909/909A) EB7031236-00417 (ASC 910) EB7031236-00418 (ASC909B) EB7031236-00420 (ASC911)
Gulfstream G500/G550	EB7031236-00314 (Foxtrot) EB7031236-00315 (Delta) EB7031236-00316 (Echo) EB7031236-00317 (ASC 909) EB7031236-00319 (Foxtrot) EB7031236-00320 (Foxtrot) EB7031236-00321 (ASC 910) EB7031236-00322 (ASC909B) EB7031236-00323 (ASC911)
Hawker 4000	EB7030192-001XX (Load 19) EB60000578-0114 (Load 20)
Pilatus PC-12NG	EB7037248-00103 (Build 6.2) EB7037248-00104 (Build 7.2) EB7037248-00106 (Build 8.3.3) EB60000487-0108 (Build 8.6) EB60000487-0111 (Build 8.8)
Viking DHC6-400	EB7032889-00101 (Load 1.3)

B. Reason

- (1) The purpose of this service information letter is to advise the operators of an anomaly that may cause the flight management system (FMS) to display an incorrect heading when the standard terminal arrival route (STAR)/approach transition has the third waypoint as Heading to Manual (VM) leg under specific conditions.

C. References

- (1) Not applicable.

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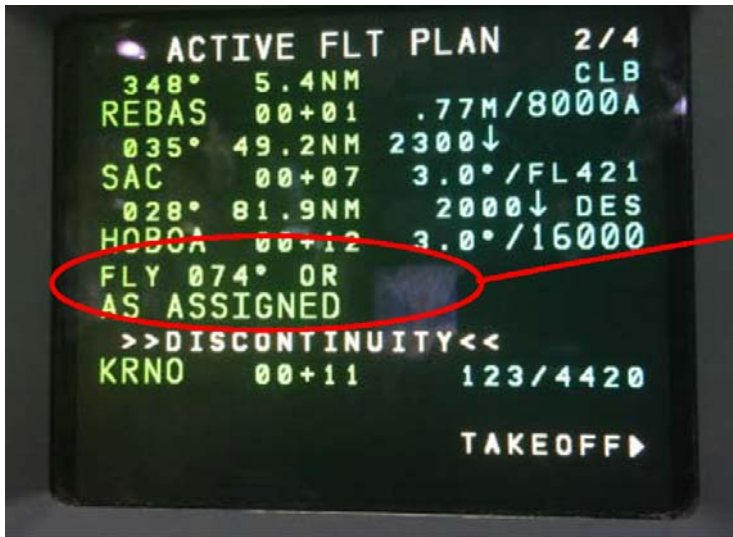
D. Summary

- (1) Operators of Primus EPIC equipped aircraft (given in Table 2) reported that the FMS displays incorrect heading when a STAR/approach transition has the third waypoint as a VM (FLY XX OR AS ASSIGNED) leg under the following conditions:
 - (a) When the STAR/approach transition is inserted and the first waypoint of the STAR/approach transition melds with a waypoint that is co-located Enroute/Departure waypoint with different identifier present in the flight plan.
 - (b) When the departure is inserted and the last waypoint of the departure melds with the first waypoint that is co-located with a different identifier of the STAR/approach transition.
- (2) For example, upon loading the departure KSFO NIITE3 and the arrival KRNO SIER3, the two different identifiers ORRCA and SAC present in the departure and arrival gets melded. The waypoints ORRCA and SAC are co-located and present in the flight plan. In this example, the third waypoint of the STAR SIERRA3 is a VM leg. Refer to Figure 1. The heading is incorrectly displayed as "FLY 074 OR AS ASSIGNED" instead of displaying "FLY 030 OR AS ASSIGNED". Refer Figure 2.

Apt	Ident	R	C	Via	Rwy	TrAlt	Fix	Type	T	PT	O	M	Cs/Hd	Alt1	Alt2	I
KRNO	SIER3	B		STARCR	---		SAC	NAV		IF						
KRNO	SIER3	B		STARCR	---		HOBQA	WPT		TF				16000		
KRNO	SIER3	B		STARCR	---		---			VM			30.0			

ID-611442

Figure 1. (Sheet 1 of 1) KRNO.SIERRA3 Arrival



Incorrect Heading displayed. "FLY 030" is the correct heading that should be displayed in accordance with the charted procedure.

ID-611443

Figure 2. (Sheet 1 of 1) Example of Incorrect Heading Displayed

E. Action

- (1) The crew needs to carefully review the flight plan when a standard instrument departure (SID) connects to a STAR directly. If the "FLY XX OR ASSIGNED" leg changes course after the insertion of a procedure, re-insertion of the procedure has been found to correct the course to what is displayed in the chart.

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F. Contact Information

- (1) The Honeywell Aerospace Technical Support (ATS) team can be contacted for additional information on this SIL.

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