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SERVICE INFORMATION LETTER

Flight Management System (FMS) Missed Approach Course Display Anomaly

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31 May 2017
Revision 1, 03 Apr 2019

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Transmittal Information

Publication Number D201704000013

Summary

This revision is a FULL replacement. This revision includes the changes that follow:

- Added part numbers in Table 2
- Added a para B. (1) in Reason
- Revised para C. (2) in Problem
- Revised Figure 2, Figure 3 and Figure 4
- Deleted Figure 5.
- Added Step D. Root Cause

Revision History

This service information letter has had one revision(s) as shown in Table 1.

Table 1. Revision History

Revision Number	Revision Date
0	31 May 2017
1	03 Apr 2019

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1. **General Information**

A. **Effectivity**

- (1) This service information letter is applicable to the EPIC and NZ platforms listed in Table 2.

Table 2. Applicable Part Numbers

Equipment Model or Aircraft Identification	Part Number and/or Load
NZ-2000/NZ-2010/FMZ-2000/FMZ-2010/ PRIMUS Apex PRIMUS EPIC FMS: NZ-2000/NZ-2010/FMZ-2000/ NZ-2010/IC-615/IC-800/IC-810/IC-1080	PN 7018879-01001, -01002, -02003 thru -02007, -02010, -02017, -03008, -03012, -03014, -03016, -03018, -03020, -03022, -03024, -03026, -03028, -03030, -03032, -03034, -03036, -03038, -03040, -10000, -11009, -11015, -11019, -11021, -11023, -03034, -03036, 03036 (MOD A), -03038, -03040, -03042, 7018879-11024, -11025 PN 7017000-21XXX, -94XXX, -95XXX, -98XXX, -99XXX, PN 7017300 - 31554, -31564, -4XX25, -43XXX, -4XX26, -56026, -56027, -61010
Leonardo AW139	PN EB7030191-00105 (Phase 4) PN EB7030191-00107 (Phase 5) PN EB7030191-00108 (Phase 6) PN EB7030191-00109 (Phase 6 DU HW3) PN EB7030191-00110 (Phase 7 v1 (sw 7.4)) PN EB7030191-00111 (Phase 7 v3 (sw 7.10)) PN EB7030191-00112 (Phase 7 v4 (sw 7.4)) PN EB7030191-00114 (Phase 7 MC (sw 7.12)) PN EB7030191-00115 (Phase 7 MC (sw 7.14))
Cessna Sovereign	PN EB7031847-00106 (Phase 4), PN EB7031847-00108 (Phase 4.1) PN EB7031847-00109 (Phase 4.2) PN EB7031847-00111 (Phase 5) PN EB7031847-00114 (Phase 5.2) PN EB7031847-00115 (Phase 5.3)
Dassault F900 DX/EX/LX	PN EB7036889-00114 (EASy II 1st Cert) PN EB7036889-00117 (EASy II 2nd Cert, Legacy I/O) PN EB7036889-00118 (EASy II 2nd Cert, Legacy)
Dassault F2000 DX/EX/LX/S	PN EB7036889-00203 (EASy I, Load 12) PN EB7036889-00203 (EASy I, Load 14) PN EB7036889-00207 (EASy II 1st Cert, Legacy I/O) PN EB7036889-00208 (EASy II 2nd Cert, Legacy I/O)
Dassault F7X	PN EB7034843-00102 (EASyI) PN EB7034843-00103 (EASyI) PN EB7034843-00104 (EASy II, 1st Cert) PN EB7034843-00107 (EASy II, 2nd Cert) PN EB7034843-00108 (EASy II, 2nd Cert, NGIO)

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Table 2. Applicable Part Numbers (Cont.)

Equipment Model or Aircraft Identification	Part Number and/or Load
Embraer E-1 170	PN PS7027709-00127 (Load 23.1) PN PS7027709-00129 (Load 23.2)
Embraer E-1 190	PN PS7027709-00215 (Load 21.4) PN PS7027709-00216 (Load 21.5) PN PS7027709-00214 (Load 23.1) PN PS7027709-00217 (Load 23.2)
Embraer E-1 170/175/190/195/Lineage 1000	PN PS7027709-00303 (Load 25.1.0.1) PN PS7027709-00302 (Load 25.2) PN PS7027709-00304 (Load 25.3) PN PS7027709-00305 (Load 25.4) PN PS7027709-00309 (Load 25.5.0.1) PN PS7027709-00310 (Load 25.6)
Gulfstream G350/450	PN EB7031236-00411 (Echo) PN EB7031236-00417 (ASC910) PN EB7031236-00420 (ASC 911) PN EB7031236-00421 (ASC912) PN EB7031236-00422 (ASC912A)
Gulfstream 550/G500-5000	PN EB7031236-00320 (Foxtrot), PN EB7031236-00321 (ASC910) PN EB7031236-00323 (ASC 911) PN EB7031236-00325 (ASC912)
Hawker 4000	PN EB7030192-001XX (Load 19) PN EB60000578-0114 (Load 20)
Pilatus PC-12NG	PN EB7037248-00103 (Build 6.2) PN EB7037248-00104 (Build 7.2) PN EB7037428-00105 (Build 8) PN EB7037428-00106 (Build 8.3.3) PN EB60000487-00108 (Build 8.6) PN EB60000487-00111 (Build 8.8)

B. Reason

- (1) The purpose of this service information letter is to advise affected operators of an FMS anomaly where the displayed course and distance of legs of the missed approach might be incorrect due to the geometry of the runway location as compared to the missed approach point in the procedure.
This issue can occur if the go-around is initiated before or after the MAP.

C. Problem

- (1) For example, flight crew heading to destination airport, YBWX (Barrow I, WA, Australia) loaded RNAV-Z (GNSS) approach to runway 21. Refer to Figure 1.

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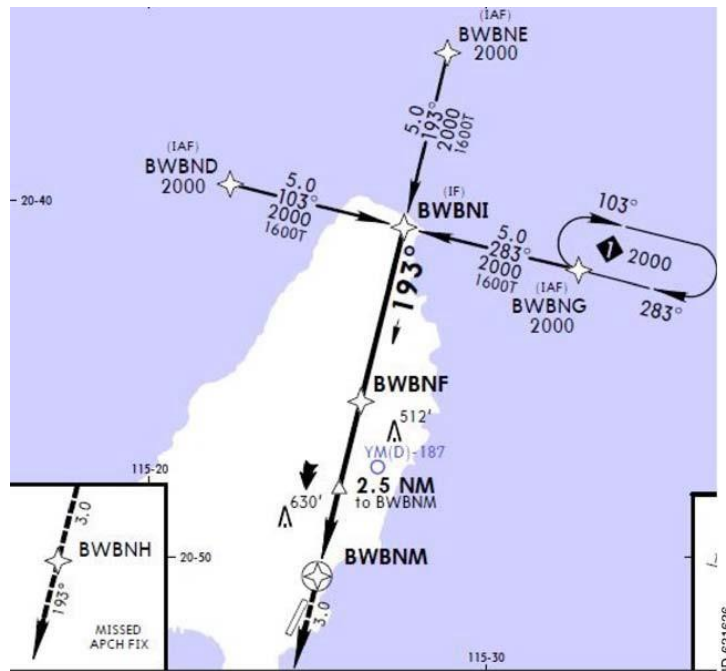


Figure 1. RNAV-Z Rwy 21 into YBWX (Courtesy of © Jeppesen 2016)

- (2) Incorrect courses are displayed on the multifunction control display unit/control display unit (MCDU/CDU) (refer Figure 2 and Figure 4) and on the multifunction display (MFD) (refer Figure 3).



Figure 2. Incorrect Course to BWBNH

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Figure 3. Incorrect Courses after the Missed Approach Activation



Figure 4. Incorrect Course on Altitude leg after the Missed Approach activation

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D. Root Cause

- (1) The problems can occur if the runway is not the Missed Approach Point.

E. References

- (1) To find, see, and download Honeywell Technical Publications, go to www.myaerospace.com.
- (2) The document(s) that follow(s) is/are associated with this service information letter. Unless specified differently, you can use subsequent revisions.
 - Instruction manual (IM), ATA Number 20-00-03 (Publication Number A09-1100-004), Revision 8, Standard Repair Procedures for Honeywell Avionics Equipment Instruction Manual.

F. Action

- (1) Flight crews are advised to operate their aircraft per original equipment manufacturer (OEM) guidance and monitor all phases of flight.
- (2) Flight crews can anticipate the issue if final approach course or course of the first missed approach leg is not aligned with the runway or if the MAP is not the same point as the runway threshold.
- (3) For more information regarding this service information letter, contact the applicable Honeywell field service engineer or the location identified below.

G. Contact Information

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

Honeywell Aerospace Technical Support
Telephone: 855-808-6500 (Toll Free U.S.A./Canada)
Telephone: 602-365-6500 (International Direct)
Option 1 for Avionics or Option 2 for Mechanical.
E-mail: AeroTechSupport@honeywell.com