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## SERVICE INFORMATION LETTER

**Terrain Database 461 and Envelope Modulation Database B07 for MK VII Enhanced Ground Proximity Warning System (EGPWS), PN 965-1076-0XX-XXX-XXX**

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## SERVICE INFORMATION LETTER

### Transmittal Information

Publication Number D201104000063

### 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	27 May 2011

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## SERVICE INFORMATION LETTER

1. **General Information**

A. **Effectivity**

- (1) When used with the data in this service information letter, the instructions in Service Bulletin, ATA Number 965-1076-34-82 (Publication Number 012-0702-182), are applicable to the MK VII EGPWS with the part numbers identified in Table 2.

**Table 2. Applicable MK VII EGPWS Part Numbers**

PN 965-1076-001	PN 965-1076-020	PN 965-1076-030	PN 965-1076-040	PN 965-1076-060
-202-202	-206-206	-213-213	-202-202	-222-222
-204-204	-208-208	-214-214	-204-204	-224-224
-206-206	-210-210	-216-216	-206-206	-226-226
-208-208	-212-212	-217-217	-208-208	-228-228
-210-210	-213-213	-218-218	-210-210	-230-230
-212-212	-214-214	-219-219	-212-212	-232-232
-213-213	-216-216	-220-220	-213-213	-234-234
-214-214	-217-217	-222-222	-214-214	
-216-216	-218-218	-224-224	-216-216	
-217-217	-219-219	-226-226	-217-217	
-218-218	-220-220	-228-228	-218-218	
-219-219	-222-222	-230-230	-219-219	
-220-220	-224-224	-232-232	-220-220	
-222-222	-226-226	-234-234	-222-222	
-224-224	-228-228		-224-224	
-226-226	-230-230		-226-226	
-228-228	-232-232		-228-228	
-230-230	-234-234		-230-230	
-232-232			-232-232	
-234-234			-234-234	

**NOTE:** Unless identified in Paragraph 1.E.(1), the software and configuration modification status (e.g. -204 MOD X-204 MOD X) does not have an effect on the effectivity of this service information letter.

- (2) Terrain Database 461 and Envelope Modulation Database B07 are installed by the factory in the MK VII EGPWS at Serial Number EMK7-05090 and higher.

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## SERVICE INFORMATION LETTER

### B. Reason

#### (1) Description

- (a) This service information letter is used with Service Bulletin, ATA Number 965-1076-34-82 (Publication Number 012-0702-182), which gives the procedure to install a terrain database and an envelope modulation database in a MK VII EGPWS.
- (b) This service information letter gives data about the Terrain Database 461 and Envelope Modulation Database B07 for the MK VII EGPWS. It also gives other data that completes the instructions in Service Bulletin, ATA Number 965-1076-34-82 (Publication Number 012-0702-182).

(2) The changes from Terrain Database 460 to Terrain Database 461 are identified below.

(a) Added the airports identified below:

1

#### Africa

- DNAS Asaba International (INTL), Nigeria
- FA05 Madikwe, S Afr Rep
- FCOB Boundji, Congo
- FCOX Ollombo INTL, Congo
- FNCV Cuito Canavale, Angola.

2

#### Asia

- ZWTL Jiaohe, China.

3

#### Eastern Europe

- LKKB Kbely, Czech
- UGSP Poti, Georgia
- UKKH Uzin, Ukraine
- UNBG Gorno-Altaysk, Russia
- UWUF Neftekamsk, Russia.

4

#### Europe

- BITE Thingeyri, Iceland
- LE01 Castellon, Spain
- LELH Alhama De Murcia, Spain.

5

#### Middle East

- OADY Dwyer, Afghanistan
- OAQA Qalat, Afghanistan
- OASA Sharona, Afghanistan
- OASH Shank, Afghanistan
- OIMD Gonabad, Iran
- OIZJ Jask, Iran
- VOJV Jindal Vijayanagar, India.

6

#### North America

- 4K5 Ouzinkie, Alaska

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- 7MI Flugplatz, USA
- CEZ4 Ft Vermilion, Canada
- KFOZ Bigfork Municipal (MUNI), USA.

### 7 South Pacific

- AYSE Simberi, Papua New Guinea
- WAME Buli, Indonesia
- WAMN Melongguane, Indonesia
- WAPH Labuha, Indonesia
- WITC Nagan Raya, Indonesia
- YCAB Caboolture, Australia
- YKAR Karara, Australia.

(b) Changed the data for the runways identified below:

### 1 Africa

- DAOO RW 07L/25R Es Senia, Algeria
- FCOE RW 14/32 Ewo, Congo
- FCOI RW 08/26 Impfondo, Congo
- FCOK RW 14/32 Kelle, Congo
- GMAZ RW 11/29 Zagora, Morocco.

### 2 Asia

- ZB05 RW 04/22 Datong, China
- ZBDT RW 14/32 Datong/Beijiazao, China
- ZSWU RW 08/26 Wuhu, China.

### 3 Eastern Europe

- UAFL RW 07/25 Ysykkul, Kyrgyzstan
- UKLL RW 13/31 L'viv, Ukraine.

### 4 Europe

- LEBA RW 03/21 Cordoba, Spain
- LIPX RW 04/22 Villafranca, Italy.

### 5 Latin America

- MBPV RW 10/28 Providenciales INTL, Caicos Is.

### 6 Middle East

- LTKO RW 16/34 Agri, Turkey
- OAHR RW 18/36 Herat, Afghanistan
- OASL RW 09/27 Salerno, Afghanistan
- OAZI RW 01/19 Bastion, Afghanistan
- VAAU RW 09/27 Aurangabad, India
- VASL RW 15/33 Sholapur, India
- VOBZ RW 08/26 Vijayawada, India.

### 7 North America

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- 0V7 RW 05/23 Kayenta, USA
- 3U4 RW 13/31 St Labre Mission, USA
- 3U5 RW 01/19 Augusta, USA
- 3U9 RW 11/29 Boulder, USA
- 49S RW 14/32 Babb, USA
- 49U RW 08/26 Shoshoni MUNI, USA
- 4E7 RW 13/31 Ellendale MUNI, USA
- 4E8 RW 11/29 Richardton, USA
- 4U4 RW 04/22 Hebbelman, USA
- 4U6 RW 12/30 Circle Town County (CO), USA
- 53U RW 15/33 Ferndale, USA
- 55T RW 17/35 Eagles, USA
- 8V3 RW 15/33 Parkston MUNI, USA
- CAX2 RW 09/27 Axe Lake, Canada
- CYPQ RW 09/27 Peterborough, Canada
- KPOB RW 05/23 Pope Air Force Base (AFB), USA
- MT08 RW 13/31 Zortman, USA
- X40 RW 01/19 Inverness, USA.

8 Pacific

- VDST RW 02/20 Stung Treng, Cambodia
- VVCM RW 09/27 Camau, Vietnam
- VVDL RW 09/27 Lienkhong, Vietnam.

9 South America

- SADL RW 14/32 La Plata, Argentina.

10 South Pacific

- YCMW RW 13/31 Camooweal Ala, Australia.

(c) Added the data for the new runways identified below:

1 Africa

- HEBL RW 15R/33L Abu Simbel, Egypt.

2 Asia

- ZGSZ RW 15R/33L Baoan, China.

3 Eastern Europe

- UHWW RW 07R/25L Knevichi, Russia
- UKKG RW 12/30 Kirovohrad, Ukraine.

4 Europe

- EDDF RW 07/25 Frankfurt/Main, Germany
- LEMG RW 12/30 Malaga, Spain.

5 North America

- KGLR RW 18/36 Gaylord Regional (REGL), USA.



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(d) Use the data as of 21 March 2011 to change all of the airport data.

**NOTE:** The International Civil Aviation Organization (ICAO) code changes and the runway identification (ID) changes do not have an effect on the usual EGPWS functions (non-runway awareness and alerting system [RAAS] functions). These changes are not identified in this service information letter. Go to the EGPWS website (<http://www.honeywell.com/sites/aero/Egpws-Home.htm>) for more airport and runway data. The website address is case sensitive.

(e) Added and changed the terrain data for the locations identified below:

1 Africa

- GCFV Fuerteventura, Canary Is
- GCRR Lanzarote, Canary Is.

2 South Pacific

- NTMN Atuona, French Pacific O.T. Is
- WAPP Pattimura, Indonesia.

(f) Added higher resolution terrain data for the locations identified below:

1 Asia

- ZURK Rikaze, China.

2 South Pacific

- NTMN Atuona, French Pacific O.T. Is
- WAPP Pattimura, Indonesia.

(g) Added new obstacle data as identified below:

- Updated North American obstacles with the latest National Aeronautical Charting Office, Direction of Flight (NACO DOF) data
- Updated European obstacles with the latest Skyforce data.

(h) Added 22 airports to the RAAS function.

**NOTE:** Go to the EGPWS website (<http://www.honeywell.com/sites/aero/Egpws-Home.htm>) and click on the RAAS link for more coverage data. The website address is case sensitive.

(i) The runway identifier was changed for the runways identified in Table 3. The airports are still valid for RAAS.

**Table 3. Runways With Changed Identifiers**

City Name	ICAO	Airport Name	RW ID	OLD ID
DENTON	KDTO	DENTON MUNI	RW18	RW17
DENTON	KDTO	DENTON MUNI	RW36	RW35
VENICE	KVNC	VENICE MUNI	RW04	RW05
VENICE	KVNC	VENICE MUNI	RW13	RW14
VENICE	KVNC	VENICE MUNI	RW22	RW23

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**Table 3. Runways With Changed Identifiers (Cont)**

City Name	ICAO	Airport Name	RW ID	OLD ID
VENICE	KVNC	VENICE MUNI	RW31	RW32
A CORUNA	LECO	A CORUNA	RW03	RW04
A CORUNA	LECO	A CORUNA	RW21	RW22
MURCIA	LELC	SAN JAVIER	RW05R	RW05
MURCIA	LELC	SAN JAVIER	RW23L	RW23
GENOA	LIMJ	SESTRI	RW10	RW11
GENOA	LIMJ	SESTRI	RW28	RW29
QUETTA	OPQT	SAMUNGLI INTL	RW13L	RW13
QUETTA	OPQT	SAMUNGLI INTL	RW31R	RW31
MARINGA	SBMG	REGL DE MARINGA - SILVIO NAME	RW10	RW09
MARINGA	SBMG	REGL DE MARINGA - SILVIO NAME	RW28	RW27
LATACUNGA	SELT	COTOPAXI INTL	RW01	RW36
LATACUNGA	SELT	COTOPAXI INTL	RW19	RW18

(j) Removed the RAAS function from the 17 airports identified in Table 4.

**NOTE:** The airports were removed because a check of the changes is necessary.

**Table 4. Airports With RAAS Function Removed**

City Name	ICAO	Airport Name
MALMO	ESMS	MALMO
SUNDSVALL-HARNOSAND	ESNN	SUNDSVALL-HARNOSAND
BATTLE CREEK	KBTL	KELLOGG
SACRAMENTO	KMCC	MC CLELLAN
SCHENECTADY	KSCH	SCHENECTADY CO
AKROTIRI	LCRA	AKROTIRI
PERPIGNAN	LFMP	RIVESALTES
VERONA	LIPX	VILLAFRANCA
SKOPJE	LWSK	ALEXANDER THE GREAT
PROVIDENCIALES I.	MBPV	PROVIDENCIALES INTL
GUAM, GQ	PGUM	GUAM INTL
LIMA-CALLAO	SPIM	JORGE CHAVEZ INTL

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**Table 4. Airports With RAAS Function Removed (Cont)**

City Name	ICAO	Airport Name
ANADYR	UHMA	UGOLNY
VLADIVOSTOK	UHWV	KNEVICH
SOCHI	URSS	SOCHI
AURANGABAD	VAAU	AURANGABAD
SHENZHEN	ZGSZ	BAOAN

- (k) Speak to a person at the telephone numbers identified below for more data about the terrain database or envelope modulation database:

Flight Support Services

Telephone: (888) 634-3330 (U.S.A.)

Telephone: (425) 885-8100 (International)

### C. References

- (1) The document that follows is necessary to install the Terrain Database 461 and the Envelope Modulation Database B07. Unless specified differently, you can use subsequent revisions.
  - Service Bulletin, ATA Number 965-1076-34-82 (Publication Number 012-0702-182), MK VII Enhanced Ground Proximity Warning System (EGPWS), Part Number 965-1076-0XX-XXX-XXX; Install a Terrain Database and an Envelope Modulation Database, Revision 0.
- (2) The documents that follow can possibly be necessary to install the Terrain Database 461 and the Envelope Modulation Database B07. Refer to Paragraph 1.E.(1). Unless specified differently, you can use subsequent revisions.
  - Service Bulletin, ATA Number 965-1076-0XX-34-05 (Publication Number 012-0702-105), Increase Flash Memory Capacity and Reprogram U44, U50 To Fix Address Coding Conflict, Revision 0
  - Service Bulletin, ATA Number 965-1076-XXX-34-49 (Publication Number 012-0702-149), Update To Application Software Versions 206.3, 208.3, 210.2, 212.2, 213.2, 214.2, 216.2, 217.1, Revision 3.
- (3) The documents that follow are recommended but not necessary to do this modification. Unless specified differently, you can use subsequent revisions.
  - Service Bulletin, ATA Number 965-1076-34-70 (Publication Number 012-0702-170), Update MKVII EGPWS With Terrain Database, Version 443 and Envelope Modulation Database Version B06, Revision 1
  - Service Information Letter, Publication Number EGPWS-MKV-MKVII-52, Terrain Database Media Requirements, Revision 2.

### D. Summary

- (1) Not applicable.

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**E. Action**

**(1) Concurrent Requirements**

(a) Modifications identified below must be done before the Terrain Database 461 and Envelope Modulation Database B07 are installed.

1 Hardware modifications:

- For the EGPWS, PN 965-1076-001 only, Service Bulletin, ATA Number 965-1076-0XX-34-05 (Publication Number 012-702-105), which installs hardware MOD 2.

**NOTE:** An XX shown in an ATA number is part of the document number and does not identify different configurations.

- For the EGPWS, PN 965-1076-040 only, Service Bulletin, ATA Number 965-1076-0XX-34-05 (Publication Number 012-702-105), which installs hardware MOD 2.
- For all other EGPWS part numbers: none.

2 Software modifications:

- For the EGPWS part numbers identified in Table 5 the software modification status must be as identified or higher except as noted.

**Table 5. Software Modification Concurrent Requirements**

PN	Software MOD Level
965-1076-0XX-206-206	MOD 3 <sup>1</sup>
965-1076-0XX-208-208	MOD 3 <sup>1</sup>
965-1076-0XX-210-210	MOD 2 <sup>1</sup>
965-1076-0XX-211-211	MOD 1 <sup>1</sup>
965-1076-0XX-212-212	MOD 2 <sup>1</sup>
965-1076-0XX-213-213	MOD 2 <sup>1</sup>
965-1076-0XX-214-214	MOD 2 <sup>1</sup>
965-1076-0XX-216-216	MOD 2 <sup>1</sup>
965-1076-0XX-217-217	MOD 1 <sup>1</sup>
965-1076-0XX-230-230	MOD 1 <sup>2</sup>

**NOTES:**

1. As necessary, use Service Bulletin, ATA Number 965-1076-XXX-34-49 (Publication Number 012-0702-149) to install the applicable software modification.
2. This software MOD level is only required if the unit being updated has SmartLanding and/or SmartRunway enabled. As necessary, use Service Bulletin, ATA Number 965-1076-XXX-34-63 (Publication Number D200911000029) to install this software modification.

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(2) **Material Information**

(a) Material - Price and Availability

- 1 Speak to Honeywell personnel at the location identified below for the necessary documentation, applicable material prices, available parts, and supply times:

Honeywell  
Global Customer Care Center  
Telephone: (800) 601-3099 (Toll Free U.S.A./Canada)  
Telephone: (602) 365-3099 (International Direct)  
Telephone: 00-800-601-30999 (EMEA Toll Free)  
Telephone: 420-234-625-500 (EMEA Direct)

**NOTE:** Identified Global Material Services (GMS) users can make an order for the material at <http://www.avionicservices.com/gms/login>. Customers who are not yet identified GMS users can use the same address to apply for identification.

- 2 The data below identifies the cost to install the Terrain Database 461 and the Envelope Modulation Database B07.

a This modification can be done at a Honeywell Service Center or Honeywell-authorized repair location. The customer must send the EGPWS to a Honeywell Service Center or Honeywell-authorized repair location.

- The fixed price to do the modification at a Honeywell Service Center or Honeywell-authorized repair location is US\$400.00 for each EGPWS. This price is applicable during the catalog year (from January 1 to midnight December 31) that this service information letter is released or revised. The price for an order that is received after this time is given at the time of the order. The price includes material, labor, and all shop costs to do this modification. The price does not include repairs that are not related but necessary to put the EGPWS in a condition of airworthiness.

b A customer can send their blank 64 megabyte (MB) Personal Computer Memory Card International Association (PCMCIA) card to a Honeywell Service Center or Honeywell-authorized repair location. The Honeywell Service Center or Honeywell-authorized repair location installs the applicable

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new terrain database and the envelope modulation database. The customer must specify the Terrain Database 461.

- The fixed price to install the databases on a blank PCMCIA card is US\$150.00 for each blank PCMCIA card. This price is applicable during the catalog year (from January 1 to midnight December 31) that this service information letter is released or revised. The price for an order that is received after this time is given at the time of the order.

c A customer can send their PCMCIA card with a different terrain database and envelope modulation database to a Honeywell Service Center or Honeywell-authorized repair location. The Honeywell Service Center or Honeywell-authorized repair location installs the applicable new terrain database and the envelope modulation database. The customer must specify the Terrain Database 461.

- There is no charge to approved customers to have the databases loaded on a PCMCIA card that has the different databases on it.

d Honeywell can supply the parts necessary to do this modification to approved customers.

- If there is no charge for parts, send a no-charge purchase order that refers to this Service Information Letter, Publication Number D201104000063 - free of charge. The purchase order must include only the applicable parts specified in Table 7.
- If there is a charge for parts, send a purchase order that refers to this Service Information Letter, Publication Number D201104000063. The purchase order must include only the applicable parts specified in Table 7.

3 The Honeywell Service Centers that can install the modification or install the databases on PCMCIA card are identified in Table 6.

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**Table 6. Honeywell Service Centers**

Service Center	Service Center	Service Center
Honeywell Seattle Area Support Center 4150 Lind Ave. SW Renton, WA 98055 Phone: (425) 251-9511 Fax: (425) 251-9368	Basingstoke UK Honeywell Avionics Systems Edison Rd., Basingstoke, Hants RG21 6QD England Phone: 44-125-672-2200 Fax: 44-125-672-2201	Honeywell Aerospace SA Avenue Saint-Granier BP3009 31024 Toulouse Cedex 3, France Phone: (33) 05 34 56 17 82 Fax: (33) 05 34 56 17 53
Honeywell Aerospace Pte Ltd Singapore Support Center 2 Loyang Crescent Singapore 508976 Phone: (65) 6542-1313 Fax: (65) 6542-1212	Honeywell Dallas Support Center 7825 Ridgepoint Drive Irving, Texas 75063-3152 Phone: (972) 402-4300 Fax: (972) 402-4399	Honeywell Avionics (Shanghai) Co Ltd China (Shanghai) Service Center (Avionics) (CHSC) No. 430, Li Bing Road Zhang Jiang Hi-Tech. Park Pudong New Area Shanghai 201203 China Phone: +86 (21) 2894-2888 Fax: +86 (21) 5079-2013

(b) Industry Support Information

- 1 Honeywell will give no reimbursement to do this modification. The customer will receive an invoice for the modification of each EGPWS done at a Honeywell Service Center or Honeywell-authorized repair location.

(c) Material Necessary for Each Component

- 1 The parts identified in Table 7 can possibly be necessary to install Terrain Database 461 and Envelope Modulation Database B07.

**Table 7. Operator-Purchased Material**

New PN	Keyword/ Nomenclature	Old PN	Qty	List Price <sup>1</sup>	Instructions/ Disposition Codes
300-1079-021	PCMCIA flash memory card, 64 MB (blank)	Not applicable (N/A)	As required (AR)	N/A	<sup>2 3 4</sup>
402-6105-001	Terrain database label (blank)	402-6105-001	AR	No charge (N/C)	<sup>5 6</sup>
718-1330-461	PCMCIA card, Terrain Database 461 with Envelope Modulation Database B07	Many	AR	N/A	<sup>2 5 7</sup>

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**Table 7. Operator-Purchased Material (Cont)**

New PN	Keyword/ Nomenclature	Old PN	Qty	List Price <sup>1</sup>	Instructions/ Disposition Codes
718-1472-461	CD-ROM, Terrain Database 461 with Envelope Modulation Database B07	Many	AR	N/C	2 5
998-1955-661	EGPWS configuration matrix diskette	Many	AR	N/C	5 8

**NOTES:**

1. The list price is applicable during the catalog year that this service information letter is released or revised. To find the applicable prices after that time, refer to the Honeywell Aerospace Spares Catalog found online at <http://www-a.honeywell.com/esource/>. When a part is not in the catalog, refer to the Honeywell Global Customer Care Center (Paragraph 1.E.(2)) for the applicable material prices, available parts, supply times, and minimum order quantities. The list price in this service information letter is equivalent to the unit price in the catalog.
2. The need for this part is identified by the procedure used to get the Terrain Database 461 and the Envelope Modulation Database B07. Refer to the Accomplishment Instructions in Service Bulletin, ATA Number 965-1076-34-82 (Publication Number 012-0702-182). If the part is necessary, the quantity is one for each location that does this modification.
3. The part numbers identified below are permitted alternate parts. They can be supplied by Smart Modular Technologies, Wilmington, MA (CAGE: 0Z1V7).
  - PN CU10548
  - PN CUG10548.
4. There is no list price for this part. The fixed price for this part is US\$250.00.
5. The customer or local regulatory authority can make the decision about what to do with the old parts. Honeywell recommends the old part number software be discarded or erased to help make sure it is not used again.
6. The need for this part is identified by the procedure used to put the terrain database number on the EGPWS instruction label. Refer to the Modification Status instructions in Service Bulletin, ATA Number 965-1076-34-82 (Publication Number 012-0702-182). If the part is necessary, the quantity is one for each EGPWS.
7. There is no list price for this part. The fixed price for this part is US\$400.00.
8. This part is necessary if this modification is done at a shop location. Refer to the test instructions in Service Bulletin, ATA Number 965-1076-34-82 (Publication Number 012-0702-182). If the part is necessary, the quantity is one for each location that does this modification. Dash numbers higher than 661 are permitted alternatives.

**(3) Data for the Procedures to Install the Databases**

**NOTE:** Terrain Database 443 and higher must use a 64 MB PCMCIA card. Refer to the documents identified below for more data:

- Service Bulletin, ATA Number 965-1076-34-70 (Publication Number 012-0702-170)
- Service Letter, Publication Number EGPWS-MK V-MK VII-52.

- (a) In the Accomplishment Instructions of Service Bulletin, ATA Number 965-1076-34-82 (Publication Number 012-0702-182), a file name is necessary. The file name to use for those instructions is TDB461\_EMDB07.BIN.