

Honeywell

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Service Bulletin

**NAVIGATION — ENHANCED GROUND PROXIMITY WARNING SYSTEM —
Enhanced Ground Proximity Warning Computer (EGPWC) — Part No.
965-1590-006, 965-1590-008, 965-1590-010, 965-1590-011, 965-1595-020,
965-1595-021, 965-1595-022, and 965-1595-024; Update MK XXII EGPWS
with Terrain Database Version 440 and Envelope Modulation Database
Version B06**

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Revised 20 February 2006

12 September 2005

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Transmittal Information

Honeywell Pub. No. 012-0714-123

Summary

NOTE: The financial responsibility for this Service Bulletin is given below:

This Service Bulletin is done at a Honeywell Service Center for a fixed price of US\$400.00 for each Enhanced Ground Proximity Warning System.

When this Service Bulletin is done at a customer location, Honeywell will supply the required parts specified in Table 3 at no charge. Honeywell will not reimburse the customer for labor hours if this upgrade is done at a customer location.

This revision is a full replacement of Service Bulletin ATA No. 965-1590/1595-34-23 (Pub. No. 012-0714-123). It is revised to include the changes that follow:

- Removed the reference to commercially available on the configuration module and Smart cable.

The data that has changed for this revision is identified with revision bars. The editorial changes and data that was moved or reformatted are not identified with revision bars.

No more work is necessary on a Enhanced Ground Proximity Warning System that has already been modified by this Service Bulletin.

The acronyms and abbreviations used in this Service Bulletin are identified in Appendix A.

Revision History

This Service Bulletin, ATA No. 965-1590/1595-34-23 (Pub. No. 012-0714-123) has one revision as shown in Table 1.

Table 1. Service Bulletin Revisions

Revision	Date of Release
Initial Release	12 September 2005
001	20 February 2006

This section transmits Revision 001 to Service Bulletin, ATA No. 965-1590/1595-34-23 (Pub. No. 012-0714-123) and contains these changes:

Page	Description
14	Paragraph 2.F.: Removed the reference to commercially available on the configuration module and Smart cable.

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1. Planning Information

A. Effectivity

Service Bulletin ATA No. 965-1590/1595-34-23 (Pub. No. 012-0714-123) applies to MK XXII Enhanced Ground Proximity Warning System as listed in Table 2.

Table 2. Part No. Effectivity

965-1590-006	965-1595-020
965-1590-008	965-1595-021
965-1590-010	965-1595-022
965-1590-011	965-1595-024

This upgrade is incorporated in production units with Serial No. 4700 and above at the time of manufacture for one or more of these regions:

- North America Region Version 440NAM
- South America Region Version 440SAM
- Europe Region Version 440EUR
- Eastern Europe Region Version 440EEU
- Africa Region Version 440AFR
- Pacific Region Version 440PAC
- Asia Region Version 440ASI
- South Pacific Region Version 440SPA
- Middle East Region Version 440MES
- Canada Region Version 440CAN
- South Africa Region Version 440SAF.

B. Concurrent Requirements

No other modification must be done before the upgrade given in this Service Bulletin.

C. Reason

Terrain database version 440 update includes:

NOTE: The following defines only the new features and changes that result from updating terrain database version 439 to version 440.

(1) New/improved terrain:

Africa

DGTK Takoradi Ab, Ghana
FCMA Mavinza, Congo
FMNV Vohimarina, Madagascar
FOGE Ndende, Gabon
FOGF Fougamou, Gabon
FOGI Moabi, Gabon
FOGJ Ndjole Ville, Gabon

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FOGR Lambarene, Gabon
FSAL Alphonse, Seychelles
FSAS Assumption, Seychelles
FSDA Darros Island, Seychelles
FSDR Desroches, Seychelles
FSPL Platte, Seychelles
FSSB Bird, Seychelles
FSSC Coetivy, Seychelles
FSSD Denis, Seychelles
GLBU Buckanan, Liberia
GLGE Sinoe, Liberia

Europe

BGKK Kulusuk, Greenland
LPCR Corvo, Azores
LPFL Flores, Azores
LPGR Graciosa, Azores
LPHR Horta, Azores
LPPI Pico, Azores
LPSJ Sao Jorge, Azores

Latin America

MBGT Jags Mccartney Intl, Turks Is
MBMC Conch Bar, Caicos Is
MBNC North Caicos, Caicos Is
MBPI Pine Cay, Caicos Is
MBPV Providenciales Intl, Caicos Is
MBSC South Caicos, Caicos Is
MGXN Xan, Guatemala
MH01 Palacios, Honduras
MH03 Ahuas, Honduras
MHTJ Trujillo, Honduras
SKSP Gustavo Rojas Pinilla, San Andres

Middle East

VECK Chakulia, India
VEJS Jamshedpur, India
VOAT Agatti, India
VRMG Gan, Maldives
VRMH Hanimaadhoo, Maldives
VRMK Kadhdhoo, Maldives
VRMM Male Intl, Maldives
VRMT Kaadedhdhoo, Maldives

North America

CAH4 Valemount, Canada
CJB6 Gods Lake, Canada
CKB6 Angling Lake/Wapekeka, Canada
CKZ3 Elk Island, Canada
CNM5 Kingfisher Lake, Canada
CYCP Blue River, Canada
CYDL Dease Lake, Canada
CYFA Ft Albany, Canada
CYGO Gods Lake Narrows, Canada
CYGW Kuujjuarapik, Canada

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CYNA Natashquan, Canada
CYRS Red Sucker Lake, Canada
CYTL Big Trout Lake, Canada
CYTQ Tasiujaq, Canada
CZGI Gods River, Canada
CZKE Kashechewan, Canada
CZUM Churchill Falls, Canada
Added higher resolution terrain data for a large area around Vancouver BC, Canada

Pacific

ANG Angaur Airstrip, Micronesia
C23 Peleliu, Micronesia
N55 Jaluit, Marshall Is
PCIS Canton Afd, Kiribati
PHFS Tern I., Hawaii
PJON Johnston Atoll, Johnston Atoll
PKMA Enewetak Aux Af, Marshall Is
PKMJ Marshall Is Intl, Marshall Is
PKRO Dyess Aaf, Marshall Is
PKWA Bucholz Aaf, Marshall Is
PLCH Cassidy Intl, Kiribati
PLPA Palmyra, Kiribati
PMDY Henderson Field, Midway I
PTKK Chuuk Intl, Micronesia
PWAK Wake I, Wake I
RPVB Bacolod, Philippines
RPVI Iloilo, Philippines
TT02 Ulithi, Micronesia
VYCI Coco I, Myanmar
VYNS Namsang, Myanmar

South America

SBNT Augusto Severo Intl, Brazil
SCAC Pupelde, Chile
SCBE Barriles, Chile
SCIM Isla Mocha, Chile
SCST Gamboa Apt, Chile
SCTE El Tepual Intl, Chile
SKAD Acandi, Colombia
SKNC Necocli, Colombia
SKTU Gonzalo Mejia, Colombia
SMNI Maj. Fernandes, Suriname
SNIA Igarape-Acu, Brazil
SNJA Jardim De Angicos, Brazil
SNRN Rio Tinto, Brazil
SNYE Pinheiro, Brazil
SVMC La Chinita Intl, Venezuela
SVTC Tucupita, Venezuela
SYEB Ebini, Guyana

South Pacific

AGAT Atoifi, Solomon Is
AGGA Auki, Solomon Is
AGGB Bellona, Solomon Is

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AGGO Mono, Solomon Is
AGGQ Ontong Java, Solomon Is
ANYN Nauru Intl, Nauru
AYKA Kiriwina, Papua New Guinea
AYKV Kavieng, Papua New Guinea
AYMS Misima, Papua New Guinea
ERU Emirua, Papua New Guinea
KWT Kawito, Papua New Guinea
MHD Morehead, Papua New Guinea
MKO Malekolon, Papua New Guinea
NCAI Avarua, Cook Is
NCMG Mangaia/Auau, Cook Is
NCMH Manihiki, Cook Is
NCMK Akatoka Manava, Cook Is
NCMR Mitiaro/Nukuroa, Cook Is
NCPK Pukapuka, Cook Is
NCPY Tongareva, Cook Is
NFNR Rotuma, Fiji Is
NFTL Ha'apai-Lifuka, Tonga
NFTP Niuatoputapu, Tonga
NFTV Vava'u, Tonga
NGFU Funafuti Intl, Tuvalu
NGTA Bonriki Intl, Kiribati
NGTU Butaritari, Kiribati
NIS Nissan, Papua New Guinea
NLWW Hihifo, Wallis I
NSFA Faleolo Intl, Western Samoa
NTGA Anaa, French Pacific O.T. Is
NTGB Fangatau, French Pacific O.T. Is
NTGE Reao I, French Pacific O.T. Is
NTGF Fakarava, French Pacific O.T. Is
NTGH Hikueru, French Pacific O.T. Is
NTGI Manihi, French Pacific O.T. Is
NTGM Makemo, French Pacific O.T. Is
NTGN Napuka, French Pacific O.T. Is
NTGO Tatakoto, French Pacific O.T. Is
NTGP Puka Puka, French Pacific O.T. Is
NTGQ Pukarua, French Pacific O.T. Is
NTGR Aratika, French Pacific O.T. Is
NTGT Takapoto Aero, French Pacific O.T. Is
NTGW Nukutavake, French Pacific O.T. Is
NTGY Tureia, French Pacific O.T. Is
NTHE Ahe, French Pacific O.T. Is
NTKA Kauehi, French Pacific O.T. Is
NTKF Faaite, French Pacific O.T. Is
NTKH Fakahina, French Pacific O.T. Is
NTKM Takume, French Pacific O.T. Is
NTKR Takarua, French Pacific O.T. Is
NTKT Katiu, French Pacific O.T. Is
NTUV Vahitahi, French Pacific O.T. Is
NVVW White Grass, Vanuatu

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NWWD Kone, New Caledonia
NWWL Moue, New Caledonia
NWWL Ouanaham, New Caledonia
NWWR La Roche Aero, New Caledonia
NWWW Ouloup, New Caledonia
NZCI Chatham Is/Tuuta, New Zealand
WADT Tambolaka, Indonesia
WADW Mau Hau, Indonesia
WAPQ Kisar, Indonesia
WARJ Adisutjipto, Indonesia
WARQ Adi Sumarmo, Indonesia
WATT EI Tari, Indonesia
WIOD H.A.S. Hanandjoeddin, Indonesia
WIPA Sultan Taha, Indonesia
WIPK Depati Amir, Indonesia
WIPQ Pendopo, Indonesia
WIPR Japura, Indonesia
WITM Malikus Saleh, Indonesia
WMKC Sultan Ismail Petra, Malaysia
WMKN Sultan Mahmud, Malaysia
WMPR Pulau Redang, Malaysia
WPDB Sauai Apt, Indonesia
WPEC Cakung, Indonesia
YPCC Cocos (Keeling) I Intl, Australia
Added higher resolution terrain data for most of Australia

D. Description

The upgrade consists of loading the terrain database/envelope modulation database PCMCIA card, terrain database version 440 with envelope modulation database version B06, into the EGPWS either in the aircraft or on the bench. A verification procedure is also provided.

NOTE: This is a software change only. The Enhanced Ground Proximity Warning System will not be disassembled and the inspection seals will not be broken.

E. Compliance

This upgrade is optional. The operator can make the decision if this upgrade is necessary.

F. Approval

This Service Bulletin includes approved instructions from the manufacturer. The configuration created by this upgrade is approved by the applicable regulatory agency. The FAA is officially notified of the terrain database and envelope modulation database updates, and they are considered as minor changes per FAR 21.611(a).

G. Manpower

You can complete this upgrade in approximately 1.5 hours when done at the same time as other repair and tests.

When this upgrade is done at a customer location (on the aircraft), you can complete this upgrade in approximately 1.5 hours.

NOTE: The times given for the tests do not include the time to get access to the Enhanced Ground Proximity Warning System on the aircraft or to do the return-to-service tests.

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H. Weight and Balance

Not changed.

I. Electrical Load Data

Not changed.

J. Software Accomplishment Summary

Not applicable.

K. References

NOTE: To find, see, and download Honeywell Technical Publications, an electronic distribution system is available at <https://pubs.cas.honeywell.com/>.

The document that follows is necessary to complete this upgrade. Unless specified differently, you can use subsequent revisions.

- ATA No. 34-45-42 (Pub. No. 012-0714-001), CMM, Revision 13.

L. Other Publications Affected

ATA No. 34-45-42 (Pub. No. 012-0714-001), CMM, Revision 13, will be revised as a result of this Service Bulletin.

M. Interchangeability or Intermixability of Parts

Not applicable.

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2. Material Information

A. Material — Cost and Availability

The items specified in Table 3 are necessary to do this Service Bulletin.

Table 3. Operator-Purchased Material

New Part Number	Keyword	Old Part Number	Qty	List Price	Instructions/Disposition
718-1447-440	PCMCIA Card, Terrain Database Version 440NAM (North America Region) with Envelope Modulation Database Version B06	Various	1	N/C	1, 2, 3, 4, 5
718-1448-440	PCMCIA Card, Terrain Database Version 440SAM (South America Region) with Envelope Modulation Database Version B06	Various	1	N/C	1, 2, 3, 4, 5
718-1449-440	PCMCIA Card, Terrain Database Version 440EUR (Europe Region) with Envelope Modulation Database Version B06	Various	1	N/C	1, 2, 3, 4, 5
718-1450-440	PCMCIA Card, Terrain Database Version 440EEU (Eastern Europe Region) with Envelope Modulation Database Version B06	Various	1	N/C	1, 2, 3, 4, 5
718-1451-440	PCMCIA Card, Terrain Database Version 440AFR (Africa Region) with Envelope Modulation Database Version B06	Various	1	N/C	1, 2, 3, 4, 5
718-1452-440	PCMCIA Card, Terrain Database Version 440PAC (Pacific Region) with Envelope Modulation Database Version B06	Various	1	N/C	1, 2, 3, 4, 5
718-1453-440	PCMCIA Card, Terrain Database Version 440ASI (Asia Region) with Envelope Modulation Database Version B06	Various	1	N/C	1, 2, 3, 4, 5

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Table 3. Operator-Purchased Material (cont)

New Part Number	Keyword	Old Part Number	Qty	List Price	Instructions/Disposition
718-1457-440	PCMCIA Card, Terrain Database Version 440SPA (South Pacific Region) with Envelope Modulation Database Version B06	Various	1	N/C	1, 2, 3, 4, 5
718-1458-440	PCMCIA Card, Terrain Database Version 440MES (Middle East Region) with Envelope Modulation Database Version B06	Various	1	N/C	1, 2, 3, 4, 5
718-1647-440	PCMCIA Card, Terrain Database Version 440CAN (Canada Region) with Envelope Modulation Database Version B06	Various	1	N/C	1, 2, 3, 4, 5
718-1654-440	PCMCIA Card, Terrain Database Version 440SAF (South Africa Region) with Envelope Modulation Database Version B06	Various	1	N/C	1, 2, 3, 4, 5
718-1476-077	CD, Terrain Database Version 440NAM with Envelope Modulation Database Version B06	Various	1	N/C	1, 2, 5
718-1476-078	CD, Terrain Database Version 440SAM with Envelope Modulation Database Version B06	Various	1	N/C	1, 2, 5
718-1476-079	CD, Terrain Database Version 440EUR with Envelope Modulation Database Version B06	Various	1	N/C	1, 2, 5
718-1476-080	CD, Terrain Database Version 440EEU with Envelope Modulation Database Version B06	Various	1	N/C	1, 2, 5

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Table 3. Operator-Purchased Material (cont)

New Part Number	Keyword	Old Part Number	Qty	List Price	Instructions/Disposition
718-1476-081	CD, Terrain Database Version 440AFR with Envelope Modulation Database Version B06	Various	1	N/C	1, 2, 5
718-1476-082	CD, Terrain Database Version 440PAC with Envelope Modulation Database Version B06	Various	1	N/C	1, 2, 5
718-1476-083	CD, Terrain Database Version 440ASI with Envelope Modulation Database Version B06	Various	1	N/C	1, 2, 5
718-1476-084	CD, Terrain Database Version 440SPA with Envelope Modulation Database Version B06	Various	1	N/C	1, 2, 5
718-1476-085	CD, Terrain Database Version 440MES with Envelope Modulation Database Version B06	Various	1	N/C	1, 2, 5
718-1476-086	CD, Terrain Database Version 440CAN with Envelope Modulation Database Version B06	Various	1	N/C	1, 2, 5
718-1476-087	CD, Terrain Database Version 440SAF with Envelope Modulation Database Version B06	Various	1	N/C	1, 2, 5

INSTRUCTIONS/DISPOSITION:

- (1) Refer to the Honeywell Contacts given below for available parts, supply times, and minimum order quantities.
- (2) A terrain database/envelope modulation database PCMCIA card, with terrain database version 440 with envelope modulation database version B06, is required to perform this modification.

Honeywell has created a method for customers to copy/create their own PCMCIA cards. PCMCIA cards may now be created by copying a previously programmed PCMCIA card, copying from a terrain database/envelope modulation database file contained on a CD, or from files downloaded from the EGPWS website.

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If an operator wants to install terrain database version 440 with envelope modulation version B06, and create their own PCMCIA cards from a PCMCIA card, order PCMCIA card (Part No. 718-1447-440, 718-1448-440, 718-1449-440, 718-1450-440, 718-1451-440, 718-1452-440, 718-1453-440, 718-1457-440, 718-1458-440, 718-1647-440, or 718-1654-440) listed in Table 3. If an operator wants to create their own PCMCIA cards from a terrain database/envelope modulation database CD then order the CD (Part No. 718-1476-077, 718-1476-078, 718-1476-079, 718-1476-080, 718-1476-081, 718-1476-082, 718-1476-083, 718-1476-084, 718-1476-085, 718-1476-086, or 718-1476-087) listed in Table 3.

NOTE: The CD must be copied to a PCMCIA card to load information into the EGPWS.

If an operator wants to create their own PCMCIA cards from the EGPWS website, then the operator must have a valid password to access the EGPWS terrain database/envelope modulation database download server. For information on downloading the terrain database/envelope modulation database file from the server, go to the DATABASE link on the left hand navigation bar of the EGPWS website: <http://www.egpws.com/>.

NOTE: The file must be copied to a PCMCIA card to load information into the EGPWS.

The instructions to copy/create the PCMCIA cards are provided in Paragraph 3.E. (copy from CD to PCMCIA card), Paragraph 3.F. (copy from PCMCIA card to PCMCIA card), or Paragraph 3.G. (copy from EGPWS website to PCMCIA card).

- (3) Customers may be entitled to a limited number of new PCMCIA cards free-of-charge. Refer to the Honeywell contacts given below.
- (4) Customers with existing PCMCIA cards can return the cards for reprogramming at no charge to one of the following support centers:

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
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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
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- (5) Order the corresponding PCMCIA card or CD based on the applicable geographic region.

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Honeywell Contacts

Refer to the data that follows for the necessary documentation, applicable material prices, available parts, and supply times.

Honeywell
Aerospace Electronic Systems
Attn: Order Administration
P.O. Box 97001, Mail Stop L3D
Redmond, WA 98073-9701
U.S.A.
Phone: 1-425-885-8719
Fax: 1-425-885-8988

Honeywell will supply the parts necessary to do this upgrade for no cost to customers on file. When you make an order for parts, send a no-charge purchase order that refers to this Service Bulletin, ATA No. 965-1590/1595-34-23 (Pub. No. 012-0714-123) — FOC. The purchase order must include only the applicable parts specified in Table 3 of this Service Bulletin.

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

B. Industry Support Information

Honeywell will not reimburse the cost of labor hours to do this upgrade. The customer will receive an applicable invoice for the Enhanced Ground Proximity Warning System repaired at a Honeywell Service Center or Honeywell-authorized repair location.

C. Material Necessary for Each Component

The sundry items listed in Table 4 are necessary to do this Service Bulletin. The items are commercially available and should not be ordered as part of this Service Bulletin.

WARNING: BEFORE YOU USE A MATERIAL, REFER TO THE MANUFACTURERS' MATERIAL SAFETY DATA SHEETS. SOME MATERIALS CAN BE DANGEROUS.

CAUTION: DO NOT USE MATERIALS THAT ARE NOT EQUIVALENT TO MATERIALS SPECIFIED BY HONEYWELL. MATERIALS THAT ARE NOT EQUIVALENT CAN CAUSE DAMAGE TO THE EQUIPMENT AND CAN VOID THE WARRANTY.

NOTE: Equivalent alternatives are permitted for materials in Table 4.

NOTE: The supplier CAGE code is given in parentheses () after the supplier location.

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Table 4. Operator-Supplied Material

Part/Specification Number	Qty	Keyword
SM9FLAPC256M1	A/R	PCMCIA card — Smart Modular Technologies, Wilmington, MA (V0Z1V7)
---	A/R	Marking material, permanent, black — Optional source

D. Material Necessary for Each Spare

Same as Paragraph 2.A. and Paragraph 2.C.

E. Reidentified Parts

Not applicable.

F. Tooling — Price and Availability

In addition to the equipment specified in documents specified in Paragraph 1.K. of this Service Bulletin, the items that follow are necessary to do this upgrade:

- Part No. 704-2617-001, RS232 cable. The quantity is one.
- Power Supply, 0-35 VDC, 2 A minimum. The quantity is one, and this item is commercially available. Do not make an order for this item as part of this Service Bulletin.
- EGPWS WinVIEWS©, communications software (equivalent alternates available from Kermit, Procomm, etc.). The quantity is one, and this item is commercially available. Do not make an order for this item as part of this Service Bulletin.
- Part No. RD50F00J0X, connector (P2). The quantity is one, and this item is commercially available. Do not make an order for this item as part of this Service Bulletin.
- Part No. 700-1710-001, configuration module. The quantity is one.
- Part No. 951-0386-001, Smart Cable, PCMCIA interface. The quantity is one.
- Test wiring, to connect the output of the power supply to the power input pins at J1. The quantity is one, and this item is commercially available. Do not make an order for this item as part of this Service Bulletin.

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3. Accomplishment Instructions

NOTE: Refer to the CMM, ATA No. 34-45-42 (Pub. No. 012-0714-001), Revision 13, for the paragraph, item, table, and/or figure numbers given in this Service Bulletin, unless specified differently.

Load the PCMCIA card software as described in Paragraph 3.A. or 3.B. Use the regional PCMCIA card that relates to the terrain database version region on the front panel of the MK XXII EGPWS:

NAM = North America (440NAM)
SAM = South America (440SAM)
EUR = Europe (440EUR)
EEU = Eastern Europe (440EEU)
AFR = Africa (440AFR)
PAC = Pacific (440PAC)
ASI = Asia (440ASI)
SPA = South Pacific (440SPA)
MES = Middle East (440MES)
CAN = Canada (440CAN)
SAF = South Africa (440SAF)

A. On the Aircraft

- (1) Loading PCMCIA Card Data With the System in the Aircraft
 - (a) Make sure that the circuit breaker to the EGPWS is on, and that the COMPUTER OK LED on the EGPWS front panel is on. See Figure 1 of this Bulletin.
 - (b) Connect the Smart Cable to connector J3 on the front panel of the EGPWS.
 - (c) Put the PCMCIA card for the related terrain database region into the PCMCIA card slot in the Smart Cable. See Figure 2 of this Bulletin.
 - (d) While the loading is in progress, the IN PROG LED on the Smart Cable must remain on.
 - (e) When the loading is complete, the XFER COMP LED on the Smart Cable must come on.
 - (f) Remove the PCMCIA card from the Smart Cable.
 - (g) After approximately 30 seconds, the COMPUTER OK LED must come on to indicate that the contents of the PCMCIA card were successfully loaded.
 - (h) Disconnect the Smart Cable from connector J3 on the front panel of the EGPWS.
 - (i) To do the optional verification of the terrain database/envelope modulation database version, go to Paragraph 3.A.(2).

(2) On Aircraft Verification of Terrain Database/Envelope Modulation Database Version

Since the software verifies the PCMCIA card loading process, an optional verification of terrain database version 440 and envelope modulation database version B06 is provided in this section.

The verification is accomplished with the Self-Test (ST) function. The ST function may be initiated from the aircraft cockpit with the GPWS Test Switch. In this procedure, ST button means to initiate the ST sequence from the aircraft cockpit.

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NOTE: Initiation of the cockpit ST function may vary from one aircraft to another. For example, the ST function may be initiated by pushing the GPWS PULL-UP indicator, or by activating a separate ST switch.

The EGPWS ST function has six levels that describe the current condition and configuration of the EGPWS, the fault and warning history, and the condition of the various inputs. To help navigate through the various levels, there are two cancel functions: short cancel (push and hold the ST button for more than 0.5 second but less than two seconds) and long cancel (push and hold the ST button for more than two seconds but less than eight seconds). The short cancel and long cancel functions operate differently depending on the ST level. To initiate an ST sequence, or to continue from level-to-level, push and hold the ST button for more than 0.5 second but less than two seconds, which is identical to the short cancel sequence.

Therefore, for simplicity, the phrase "push the ST button" means push and hold the ST button for more than 0.5 second but less than two seconds. The procedure guides the operator directly to Level 3 ST, system configuration, skipping most of Level 1 and Level 2.

- (a) Push the ST button to initiate Level 1 ST.
- (b) After Level 1 ST message starts, push the ST button to cancel Level 1 and start Level 2.
- (c) After Level 2 ST message begins (CURRENT FAULTS...), hold the ST button for five seconds to cancel Level 2.
- (d) When the message PRESS TO CONTINUE is heard, push the ST button to start Level 3 Self-Test, system configuration.
- (e) Make sure that after the part number, MOD status, serial number, and software version, the following messages are annunciated:
 - TERRAIN DATABASE VERSION 440XXX (where XXX is AFR, ASI, CAN, EEU, EUR, MES, NAM, PAC, SAF, SAM, or SPA)
 - ENVELOPE MOD DATABASE VERSION B06.
- (f) When the ST finishes Level 3, the message PRESS TO CONTINUE is annunciated. If the ST button is not pushed, the ST sequence terminates.

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B. On the Bench

NOTE: Loading and verification of the terrain database and envelope modulation database on the bench will require the assistance from Honeywell field service engineering personnel.

- (1) Loading PCMCIA Card Data With the System on the Bench
 - (a) Set up the list of equipment or equivalent alternatives that follows:
 - 28 VDC power supply with a minimum supply current of 2 amperes
 - EGPWS WinVIEWS© communications software
 - RS232 Cable, Honeywell Part No. 704-2617-001
 - IBM Personal Computer
 - Smart Cable, Part No. 951-0386-001
 - Connector (P2), Part No. RD50F00J0X (V28198), with Configuration Module, Part No. 700-1710-001.
 - (b) With the power supply turned off, connect the power supply to the EGPWS connector as shown in Table 5.

Table 5. Power Supply Connections

J1 Pin	J1 Pin Nomenclature
40, 60	Power 28 VDC (+)
41, 61	Power 28 VDC (-)
42	Chassis GND

- (c) Turn on the power supply.
- (d) The COMPUTER OK LED on the front panel must come on.
- (e) Connect the Smart Cable to connector J3 on the front panel. The POWER ON LED on the Smart Cable must come on. See Figure 2 of this Bulletin.
- (f) Put the regional PCMCIA card that relates to the terrain database version label on the front panel of the EGPWS (AFR, ASI, EEU, EUR, MES, NAM, PAC, SAM, or SPA) into the PCMCIA card slot in the Smart Cable.
- (g) While the loading is in progress, the IN PROG LED must remain on.
- (h) When the loading is complete, the XFER COMP LED must come on.
- (i) Remove the PCMCIA card from the Smart Cable.
- (j) After approximately 30 seconds, make sure that the COMPUTER OK LED comes on to show that the contents of the PCMCIA card were successfully loaded.
- (k) Disconnect the Smart Cable from the EGPWS.
- (l) To do the optional verification of the terrain database/envelope modulation database version, go to Paragraph 3.B.(2), otherwise continue to Paragraph 3.B.(1)(m).

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- (m) Turn off the power supply.
- (n) Disconnect the power leads from EGPWS.
- (2) On the Bench Verification of Terrain Database/Envelope Modulation Database Version
 - (a) Connect one end of the RS232 cable to connector J3 on the front panel of the EGPWS.
 - (b) Connect the other end of the RS232 cable to a personal computer that has WinVIEWS© installed.
 - (c) Connect the P2 connector (with the configuration module attached) to the connector J2 on the front panel of the EGPWS.
 - (d) Turn on the power supply. The COMPUTER OK LED on the front panel of the EGPWS should come on.
 - (e) On the personal computer, start WinVIEWS©, and enter CTRL-Z on the keyboard.
 - (f) At the > prompt, enter PS on the keyboard.
 - (g) Make sure that after the Part Number, MOD Status, Serial Number, and Software Version, the following messages are shown:
 - TERRAIN DATABASE VERSION 440XXX (where XXX is AFR, ASI, CAN, EEU, EUR, MES, NAM, PAC, SAF, SAM, or SPA)
 - ENVELOPE MOD DATABASE VERSION B06.
 - (h) Turn off the power supply.
 - (i) Disconnect all test equipment and power leads to the EGPWS.

C. Modification Status Marking

- (1) Remove the old terrain database version label or markings, if present, on the front panel. See Figure 1 of this Bulletin.
- (2) Use permanent black marking material to mark 440XXX with the related terrain database region (where XXX is AFR, ASI, CAN, EEU, EUR, MES, NAM, PAC, SAF, SAM, or SPA) to show that this modification has been done.

D. Testing

- (1) Not applicable. However, if you do an ATP as shown in the CMM, ATP Configuration Matrix 998-2693-546 or higher is necessary.

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E. Programming a PCMCIA Card From a CD

- (1) Required Equipment
 - (a) Terrain database/envelope modulation database compact disk (CD), Part No. 718-1476-077, 718-1476-078, 718-1476-079, 718-1476-080, 718-1476-081, 718-1476-082, 718-1476-083, 718-1476-084, 718-1476-085, 718-1476-086, or 718-1476-087.
 - (b) Blank PCMCIA card, PCMCIA card Part No. 300-1314-003 (Vendor Part No. SM9FLAPC256M1, V0Z1V7), or older version PCMCIA card.
 - (c) IBM PC or compatible, P133 or greater, loaded with Windows 95/98/ME/2000 or Windows XP, with a PCMCIA card reader installed.
- (2) Procedure
 - (a) Put the terrain database/ envelope modulation database CD into the CD drive.
 - (b) Put a blank or old version PCMCIA card into the PCMCIA drive.
 - (c) Use Windows Explorer to select the PCMCIA drive and delete all folders and files currently on the PCMCIA card, if necessary.
 - (d) Empty the recycle bin (if one exists).
 - (e) Copy the APP and TDB folders and all of their files from the CD to the PCMCIA card.
 - (f) Make sure that all the necessary files were copied to the PCMCIA card as follows:
 - 1 In the Windows Explorer, show the contents of the ATA PCMCIA card.
 - 2 On the left side of the window, click on the ATA drive letter to show the contents of the ATA PCMCIA card on the right side of the window.
 - 3 Make sure that the APP and TDB folders are on the ATA PCMCIA card.
 - 4 Double click on the TDB folder to show the contents on the right side of the window. Select menu VIEW, ARRANGE ICONS, BY NAME to get an alphabetical listing.
 - 5 There will be hundreds of files in this folder. It is not necessary to make sure of the Date/Time stamps of all of the files, a spot check is sufficient. Make sure that the files with file extension .BMF have the Date/Time stamp as given in Table 6. If file extensions are not shown, select menu VIEW, DETAILS to show the file extensions.
 - 6 Files that have extensions .ATA, .BIN, .BMI, or .DAT may have a different Date/Time stamp than the .BMF files.
 - 7 On the left side of the window, click on the TDB folder so that it is highlighted.
 - 8 Select menu FILE.
 - 9 Select menu PROPERTIES.
 - 10 Make sure that the size, number of files and folders match those shown in Table 6 for the related region.

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Table 6. TDB Folder

Region	.BMF Date/Time	Size (Bytes)	No. of Files	No. of Folders
North America	7/21/05 1:20 pm (Pacific Daylight Time)	188,431,995	1597	0
South America	7/21/05 7:52 pm (Pacific Daylight Time)	150,704,187	1301	0
Europe	7/20/05 8:32 pm (Pacific Daylight Time)	177,228,132	1502	0
Eastern Europe	7/20/05 1:11 pm (Pacific Daylight Time)	182,341,644	1517	0
Africa	7/19/05 8:58 pm (Pacific Daylight Time)	180,111,639	1528	0
Pacific	7/21/05 12:33 pm (Pacific Daylight Time)	155,451,615	1323	0
Asia	7/19/05 8:10 pm (Pacific Daylight Time)	177,506,839	1574	0
South Pacific	7/22/05 4:31 pm (Pacific Daylight Time)	93,747,092	772	0
Middle East	7/20/05 7:22 pm (Pacific Daylight Time)	178,199,921	1557	0
Canada	7/20/05 2:34 pm (Pacific Daylight Time)	157,834,290	1306	0
South Africa	7/21/05 7:38 pm or 7:39 pm (Pacific Daylight Time)	158,756,709	1355	0

11 Double click on the APP folder so that the contents are shown.

12 Select menu VIEW, ARRANGE ICONS, BY NAME to get an alphabetical listing.

NOTE: The contents of the APP folder is the same for all regions.

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13 Make sure that the contents of the APP folder (refer to Table 7) on the ATA PCMCIA card are displayed on the screen as follows:

- For each file, make sure of the File Name, Date, and Time
- For each file, right click, select Properties and make sure of the Size in bytes.

Table 7. APP Folder

File Name	Size (Bytes)	Date/Time
ENVDB.IMG	262,144	3/10/04 1:33pm (Pacific Daylight Time)
UPLOAD.ENV	72	9/21/99 1:13pm (Pacific Daylight Time)

(g) Write-protect the files.

- 1 On the left side of the Explorer window, click on the TDB folder so that it is highlighted.
- 2 Select the menu FILE.
- 3 Select the menu PROPERTIES.
- 4 Make sure that the READ-ONLY attribute box is checked. If not, check the READ-ONLY box and click on the APPLY button, then click on the OK button.
- 5 Select the menu EDIT.
- 6 Select the menu SELECT ALL. All of the files in the folder must be highlighted.
- 7 Select the menu FILE.
- 8 Select the menu PROPERTIES.
- 9 Make sure that the READ-ONLY box is checked. If not, check the READ-ONLY box and click on the APPLY button, then click on the OK button.
- 10 On the left side of the Explorer window, click on the APP folder so that it is highlighted.
- 11 Select the menu FILE.
- 12 Select the menu PROPERTIES.
- 13 Make sure that the Read-only attribute box is checked. If not, check the READ-ONLY box and click on the APPLY button, then click on the OK button.
- 14 Select the menu EDIT.
- 15 Select the menu SELECT ALL. All of the files in the folder must be highlighted.
- 16 Select the menu FILE.
- 17 Select the menu PROPERTIES.
- 18 Make sure that the READ-ONLY box is checked. If not, check the READ-ONLY box and click on the APPLY button, then click on the OK button.

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- 19 Eject the PCMCIA card from the PCMCIA card slot.
- (h) Label the PCMCIA card as Terrain Database Version 440XXX/Envelope Modulation Database B06 (where XXX is AFR, ASI, CAN, EEU, EUR, MES, NAM, PAC, SAF, SAM, or SPA).
- (i) Remove the terrain database/envelope modulation database CD from the CD drive.

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F. Copying a Terrain Database/Envelope Modulation Database PCMCIA Card

- (1) Required Equipment
 - (a) Terrain database/envelope modulation database PCMCIA card, Part No. 718-1447-440, 718-1448-440, 718-1449-440, 718-1450-440, 718-1451-440, 718-1452-440, 718-1453-440, 718-1457-440, 718-1458-440, 718-1647-440, or 718-1654-440.
 - (b) Blank PCMCIA card, PCMCIA card Part No. 300-1314-003 (Vendor Part No. SM9FLAPC256M1, V0Z1V7), or older version PCMCIA card.
 - (c) IBM PC or compatible, P133 or greater, loaded with Windows 95/98/ME/2000 or Windows XP, with a PCMCIA card reader installed.
- (2) Procedure
 - (a) Put the terrain database/envelope modulation database PCMCIA card into the PCMCIA drive.
 - (b) Copy the APP and TDB folders and their files of the terrain database/envelope modulation database PCMCIA card to a unique folder on a hard drive.
 - (c) Remove the terrain database/envelope modulation database PCMCIA card from the PCMCIA drive.
 - (d) Put a blank or old version terrain database PCMCIA card into PCMCIA drive.
 - (e) Use Windows Explorer to select the PCMCIA drive and delete all folders and files currently on the PCMCIA card, if necessary.
 - (f) Empty the recycle bin (if one exists).
 - (g) Copy the APP and TDB folders and their files from the folder created in Paragraph 3.F.(2)(b) to PCMCIA card.
 - (h) Make sure that all the necessary files were copied to PCMCIA card as follows:
 - 1 In the Windows Explorer, show the contents of the ATA PCMCIA card.
 - 2 On the left side of the window, click on the ATA drive letter to show the contents of the ATA PCMCIA card on the right side of the window.
 - 3 Make sure that the APP and TDB folders are on the ATA PCMCIA card.
 - 4 Double click on the TDB folder to show the contents on the right side of the window. Select menu VIEW, ARRANGE ICONS, BY NAME to get an alphabetical listing.
 - 5 There will be hundreds of files in this folder. It is not necessary to make sure of the Date/Time stamps of all of the files, a spot check is sufficient. Make sure that the files with file extension .BMF have the Date/Time stamp as given in Table 8. If file extensions are not shown, select menu VIEW, DETAILS to show the file extensions.
 - 6 Files that have extensions .ATA, .BIN, .BMI or .DAT may have a different Date/Time stamp than the .BMF files.
 - 7 On the left side of the window, click on the TDB folder so that it is highlighted.

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- 8 Select menu FILE.
- 9 Select menu PROPERTIES.
- 10 Make sure that the size, number of files and folders match those shown in Table 8 for the related region.

Table 8. TDB Folder

Region	.BMF Date/Time	Size (Bytes)	No. of Files	No. of Folders
North America	7/21/05 1:20 pm (Pacific Daylight Time)	188,431,995	1597	0
South America	7/21/05 7:52 pm (Pacific Daylight Time)	150,704,187	1301	0
Europe	7/20/05 8:32 pm (Pacific Daylight Time)	177,228,132	1502	0
Eastern Europe	7/20/05 1:11 pm (Pacific Daylight Time)	182,341,644	1517	0
Africa	7/19/05 8:58 pm (Pacific Daylight Time)	180,111,639	1528	0
Pacific	7/21/05 12:33 pm (Pacific Daylight Time)	155,451,615	1323	0
Asia	7/19/05 8:10 pm (Pacific Daylight Time)	177,506,839	1574	0
South Pacific	7/22/05 4:31 pm (Pacific Daylight Time)	93,747,092	772	0
Middle East	7/20/05 7:22 pm (Pacific Daylight Time)	178,199,921	1557	0
Canada	7/20/05 2:34 pm (Pacific Daylight Time)	157,834,290	1306	0
South Africa	7/21/05 7:38 pm or 7:39 pm (Pacific Daylight Time)	158,756,709	1355	0

- 11 Double click on the APP folder so that the contents are shown.
- 12 Select menu VIEW, ARRANGE ICONS, BY NAME to get an alphabetical listing.
- 13 The contents of the APP folder is the same for all regions.

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14 Make sure that the contents of the APP folder (refer to Table 9) on the ATA PCMCIA card are displayed on the screen as follows:

- For each file, make sure of the File Name, Date, and Time
- For each file, right click, select Properties and make sure of the Size in bytes.

Table 9. APP Folder

File Name	Size (Bytes)	Date/Time
ENVDB.IMG	262,144	3/10/04 1:33pm (Pacific Daylight Time)
UPLOAD.ENV	72	9/21/99 1:13pm (Pacific Daylight Time)

(i) Write-protect the files.

- 1 On the left side of the Explorer window, click on the TDB folder so that it is highlighted.
- 2 Select the menu FILE.
- 3 Select the menu PROPERTIES.
- 4 Make sure that the READ-ONLY attribute box is checked. If not, check the READ-ONLY box and click on the APPLY button, then click on the OK button.
- 5 Select the menu EDIT.
- 6 Select the menu SELECT ALL. All of the files in the folder must be highlighted.
- 7 Select the menu FILE.
- 8 Select the menu PROPERTIES.
- 9 Make sure that the READ-ONLY box is checked. If not, check the READ-ONLY box and click on the APPLY button, then click on the OK button.
- 10 On the left side of the Explorer window, click on the APP folder so that it is highlighted.
- 11 Select the menu FILE.
- 12 Select the menu PROPERTIES.
- 13 Make sure that the Read-only attribute box is checked. If not, check the READ-ONLY box and click on the APPLY button, then click on the OK button.
- 14 Select the menu EDIT.
- 15 Select the menu SELECT ALL. All of the files in the folder must be highlighted.
- 16 Select the menu FILE.
- 17 Select the menu PROPERTIES.
- 18 Make sure that the READ-ONLY box is checked. If not, check the READ-ONLY box and click on the APPLY button, then click on the OK button.
- 19 Eject the PCMCIA card from the PCMCIA card slot.

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- (j) Label the PCMCIA card as Terrain Database Version 440XXX/Envelope Modulation Database B06 (where XXX is AFR, ASI, CAN, EEU, EUR, MES, NAM, PAC, SAF, SAM, or SPA).

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G. Programming a PCMCIA Card From Files Downloaded From the Internet

- (1) Required Equipment
 - (a) An Internet connection with a valid password to access the EGPWS terrain database/envelope modulation database download server. For information on downloading these databases, use the DATABASE link on the left-hand navigation bar in the EGPWS website: <http://www.egpws.com/>.
 - (b) Blank PCMCIA card, PCMCIA card Part No. 300-1314-003 (Vendor Part No. SM9FLAPC256M1, V0Z1V7), or older version PCMCIA card.
 - (c) IBM PC or compatible, P133 or greater, loaded with Windows 95/98/ME/2000 or Windows XP, with a PCMCIA card reader installed.
- (2) Procedure
 - (a) Use the internet browser on the PC to navigate to the EGPWS website: <http://www.egpws.com/>.
 - (b) Use the DATABASE link on the left-hand navigation bar in the EGPWS website to navigate to the Terrain Database download section.
 - (c) Do the instructions as given in the download section to extract the files to the hard drive on the PC.
 - (d) Put a blank or old version PCMCIA card into the PCMCIA drive.
 - (e) Use Windows Explorer to select the PCMCIA drive and delete all folders and files currently on the PCMCIA card if necessary.
 - (f) Empty the recycle bin (if one exists).
 - (g) Copy the downloaded APP and TDB folders and all of their files to the PCMCIA card.
 - (h) Make sure that all the necessary files were copied to the PCMCIA card:
 - 1 In the Windows Explorer, show the contents of the ATA PCMCIA card.
 - 2 On the left side of the window, click on the ATA drive letter to show the contents of the ATA PCMCIA card on the right side of the window.
 - 3 Make sure that the APP and TDB folders are on the ATA PCMCIA card.
 - 4 Double click on the TDB folder to show the contents on the right side of the window. Select menu VIEW, ARRANGE ICONS, BY NAME to get an alphabetical listing.
 - 5 There will be hundreds of files in this folder. It is not necessary to make sure of the Date/Time stamps of all of the files, a spot check is sufficient. Make sure that the files with file extension .BMF have the Date/Time stamp as given in Table 10. If file extensions are not shown, select menu VIEW, DETAILS to show the file extensions.
 - 6 Files that have extensions .ATA, .BIN, .BMI or .DAT may have a different Date/Time stamp than the .BMF files.

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- 7 On the left side of the window, click on the TDB folder so that it is highlighted.
- 8 Select menu FILE.
- 9 Select menu PROPERTIES.
- 10 Make sure that the size, number of files and folders match those shown in Table 10 for the related region.

Table 10. TDB Folder

Region	.BMF Date/Time	Size (Bytes)	No. of Files	No. of Folders
North America	7/21/05 1:20 pm (Pacific Daylight Time)	188,431,995	1597	0
South America	7/21/05 7:52 pm (Pacific Daylight Time)	150,704,187	1301	0
Europe	7/20/05 8:32 pm (Pacific Daylight Time)	177,228,132	1502	0
Eastern Europe	7/20/05 1:11 pm (Pacific Daylight Time)	182,341,644	1517	0
Africa	7/19/05 8:58 pm (Pacific Daylight Time)	180,111,639	1528	0
Pacific	7/21/05 12:33 pm (Pacific Daylight Time)	155,451,615	1323	0
Asia	7/19/05 8:10 pm (Pacific Daylight Time)	177,506,839	1574	0
South Pacific	7/22/05 4:31 pm (Pacific Daylight Time)	93,747,092	772	0
Middle East	7/20/05 7:22 pm (Pacific Daylight Time)	178,199,921	1557	0
Canada	7/20/05 2:34 pm (Pacific Daylight Time)	157,834,290	1306	0
South Africa	7/21/05 7:38 pm or 7:39 pm (Pacific Daylight Time)	158,756,709	1355	0

- 11 Double click on the APP folder so that the contents are shown.
- 12 Select menu VIEW, ARRANGE ICONS, BY NAME to get an alphabetical listing.

NOTE: The contents of the APP folder is the same for all regions.

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13 Make sure that the contents of the APP folder (refer to Table 11) on the ATA PCMCIA card are displayed on the screen is as follows:

- For each file, make sure of the File Name, Date, and Time
- For each file, right click, select Properties and make sure of the Size in bytes

Table 11. APP Folder

File Name	Size (Bytes)	Date/Time
ENVDB.IMG	262,144	3/10/04 1:33pm (Pacific Daylight Time)
UPLOAD.ENV	72	9/21/99 1:13pm (Pacific Daylight Time)

(i) Write-protect the files.

- 1 On the left side of the Explorer window, click on the TDB folder so that it is highlighted.
- 2 Select the menu FILE.
- 3 Select the menu PROPERTIES.
- 4 Make sure that the READ-ONLY attribute box is checked. If not, check the READ-ONLY box and click on the APPLY button, then click on the OK button.
- 5 Select the menu EDIT.
- 6 Select the menu SELECT ALL. All of the files in the folder must be highlighted.
- 7 Select the menu FILE.
- 8 Select the menu PROPERTIES.
- 9 Make sure that the READ-ONLY box is checked. If not, check the READ-ONLY box and click on the APPLY button, then click on the OK button.
- 10 On the left side of the Explorer window, click on the APP folder so that it is highlighted.
- 11 Select the menu FILE.
- 12 Select the menu PROPERTIES.
- 13 Make sure that the Read-only attribute box is checked. If not, check the READ-ONLY box and click on the APPLY button, then click on the OK button.
- 14 Select the menu EDIT.
- 15 Select the menu SELECT ALL. All of the files in the folder must be highlighted.
- 16 Select the menu FILE.
- 17 Select the menu PROPERTIES.
- 18 Make sure that the READ-ONLY box is checked. If not, check the READ-ONLY box and click on the APPLY button, then click on the OK button.
- 19 Eject the PCMCIA card from the PCMCIA card slot.

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- (j) Label the PCMCIA card as Terrain Database Version 440XXX/Envelope Modulation Database B06 (where XXX is AFR, ASI, CAN, EEU, EUR, MES, NAM, PAC, SAF, SAM, or SPA).

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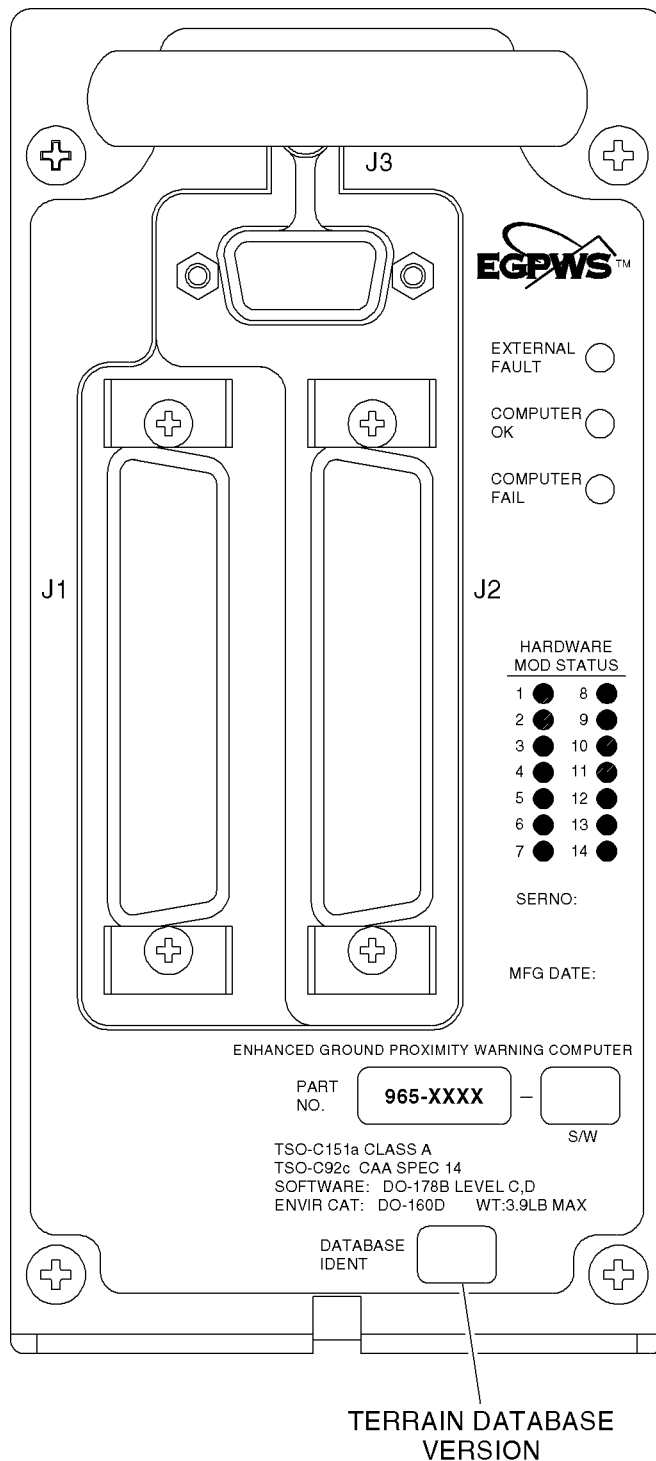


Figure 1. Terrain Database Version Label Location

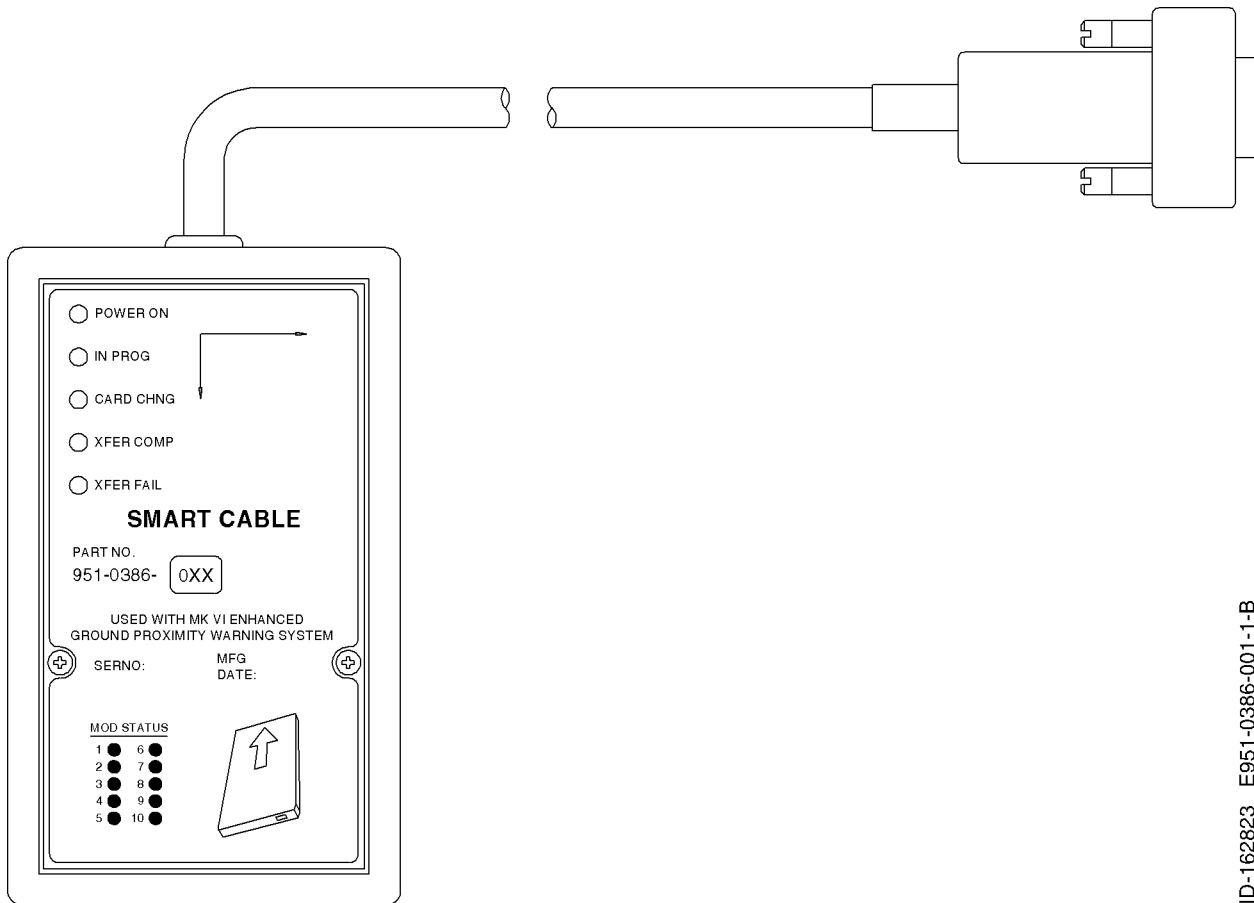
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ID-162823 E951-0386-001-1-B

Figure 2. Smart Cable

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Appendix A

Acronyms and Abbreviations

The acronyms and abbreviations used by Honeywell are identified in Table A-1.

Table A-1. List of Acronyms and Abbreviations

Term	Term Definition
ATA	Air Transport Association
ATP	automated test procedure
A/R	as required
CAGE	Commercial and Government Entity
CD	compact disk
CMM	component maintenance manual
Corp.	corporation
EGPWS	Enhanced Ground Proximity Warning System
ESDS	electrostatic discharge sensitive
ECCN	Export Code Classification Number
FOC	free of charge
GND	ground
ICAO	International Civil Aviation Organization
ID	identification
Inc.	incorporated
LRU	line replaceable unit
MOD	modification
N/C	no charge
No.	number
PC	personal computer
PCM	PC Card Manager™
PCMCIA	Personal Computer Memory Card International Association
PPI	prepare, package, and inspect
Pub.	publication
Qty	quantity
RAAS	Runway Awareness and Advisory System
SRU	shop replaceable unit
ST	self test
U.S.	United States
U.S.A.	United States of America
USB	universal serial bus
USC	United States Code
VAC	volts alternating current
VDC	volts direct current