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SERVICE BULLETIN

NAVIGATION - KGS 200 MERCURY2 WIDE AREA AUGMENTATION SYSTEM (WAAS) GLOBAL NAVIGATION SYSTEM SENSOR UNIT (GNSSU) - Factory Conversion of KGS 200 Mercury2 WAAS GNSSU From PN 066-01201-0101, -0102, or -0104 to PN 066-01201-0105; Install new Satellite Based Augmentation System (SBAS) Software

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Transmittal Information

ATA Number KGS 200-34-06 (Publication Number D201207000010)

Summary

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

- Added instructions for the inspection and replacement of the GPS receiver if required after testing.
- Changed the compliance requirements.

The information that is identified with revision bars is listed in the Revision History section. Revision bars are not used before Paragraph 1.A. The editorial changes and information that was moved or reformatted is not identified with revision bars.

Revision History

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

Table 1. Revision History

Revision Number	Revision Date
0	16 Aug 2012
1	19 Oct 2012

Highlights

This section issues Revision 1 to Service Bulletin, ATA Number KGS 200-34-06 (Publication Number D201207000010), and contains these changes:

The list of highlights tells the users about the changes that the revision makes. The list has three columns. The "Page" column shows the block of data that the revision changes and the page on which the block begins. The block can be a section, subsection, graphic, table, etc. Revision marks give the location of the change in the block. The "Description" column tells the user about the change or changes in each block. A paragraph, table, or figure reference often comes before the description. The "Effectivity" column tells the user about the part number(s) to which the block of information applies. The default value for this column is "All." "All" means that the block applies to all parts.

Page	Description	Effectivity
8	Paragraph 1.E.(1). Added instructions that this conversion is required for KGS 200 GNSSU units, PN 066-01201-0102 and PN 066-01201-0104.	All
8	Paragraph 1.E.(2). Added instructions that this conversion is optional for KGS 200 GNSSU, PN 066-01201-0101.	All
10	Paragraph 2.C.(1). Changed the part number of the main serial number tag from PN 057-06136-1008 to PN 057-06136-1007.	All
10	Paragraph 2.C.(1). Added the GPS receiver data to Table 2.	All
10	Paragraph 2.C.(1). Added Footnote 2 to Table 2.	All

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Page	Description	Effectivity
13	Paragraph 3.B.(1).(a). Added instructions for KGS 200 units that do not fail during testing.	All
13	Paragraph 3.B.(1).(b). Added instructions for KGS 200 units that fail during testing.	All
14	Paragraph 3.E.(3). Changed the part number of the main serial number tag from PN 057-06136-1008 to PN 057-06136-1007.	All

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1. Planning Information

A. Effectivity

- (1) This service bulletin is applicable to the KGS 200 GNSSU, PN 066-01201-0101 and the KGS 200 Mercury² WAAS GNSSU, PN 066-01201-0102 and -0104.

NOTE: A KGS 200, PN 066-01201-0105, has the new Mercury² PX GNSS installed at the factory.

NOTE: The acronyms for Wide Area Augmentation System (WAAS) and SBAS used in this document refer to all SBASs, to include:

- WAAS
- European Geostationary Navigation Overlay Service (EGNOS)
- Multifunctional Transport Satellite-Based Augmentation System (MSAS)
- Systems that are not in operation at this time like the Global Positioning System (GPS) Aided Geo Augmented Navigation (GAGAN).

B. Concurrent Requirements

- (1) No other modification must be done before the conversion given in this service bulletin.

C. Reason

- (1) This service bulletin makes the changes identified below by the installation of the new WAAS software, PN 125-01029-2203:

- KGS 200 Global Navigation System Sensor Unit (GNSSU) from PN 066-01201-0101 to PN 066-01201-0105
- KGS 200 Mercury² WAAS GNSSU, PN 066-01201-0102 or -0104 to PN 066-01201-0105.

- (2) When the new WASS software is installed, the KGS 200 GNSSU can operate as specified by the document identified below:

- FAA Advisory Circular (AC) Number 20-138A.

D. Description

- (1) A summary of the work necessary to do this conversion is given below.

- (a) If necessary, the GPS database loader program is installed in a personal computer (PC).
- (b) The PC is attached to the KGS 200 with a KGS 200 serial cable.
- (c) The new SBAS software is installed in the KGS 200.
- (d) The KGS 200 is disassembled to access the Mercury PX GNSS board.
- (e) The Brady label is changed on the Mercury PX GNSS board.
- (f) The KGS 200 is reassembled.
- (g) The conversion is identified by:
 - The attachment of a new software modification tag.
 - The attachment of a new part number (PNR) tag.

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- Replacement of the serial number tag.
- Replacement of a tamper proof seal.

(h) A test is done on the KGS 200 GNSSU.

NOTE: This conversion must be done at the Honeywell factory repair and overhaul facility.

E. Compliance

- (1) This conversion is required for KGS 200 GNSSU, PN 066-01201-0102 and PN 066-01201-0104.
- (2) This conversion is optional for the KGS 200 GNSSU, PN 066-01201-0101. The operator can make the decision if this conversion is necessary.

F. Approval

- (1) This conversion affects the first TSO approval of the KGS 200 GNSSU, PN 066-01201-0101. This conversion adds the TSO approvals of TSO C-145c, Class Beta-3, and TSO C-146c, Class Delta-4.
- (2) This conversion adds the operational functions for SBAS approaches to the KGS 200 GNSSU, PN 066-01201-0101, as specified by FAA AC Number 20-138A.
- (3) For PN 066-01201-0102, this conversion corrects a TSO C-146c noncompliance issue identified in Service Information Letter, Publication D201104000037.
- (4) For PN 066-01201-0102 and -0104, this conversion corrects a TSO C-145c and TSO C-146c noncompliance issue identified in Service Information Letter D201207000003.
- (5) Installation of a KGS 200 GNSSU changed as specified in this service bulletin will need:
 - FAA approval through FAA Form 337, Type Certificate, or Supplemental Type Certificate can possibly be necessary
 - A new or changed aircraft flight manual supplement for instrument flight rules operation when the change is from PN 066-01201-0101 to PN 066-01201-0105.

NOTE: If the KGS 200 GNSSU is to be installed in an aircraft in which the same part numbered KGS 200 was removed, then the documentation identified above is not necessary.

- (6) The installer must make sure of the compatibility with the applicable aircraft installation. It is possible that more FAA analysis, flight tests, and changes to the aircraft or rotorcraft flight manual supplement will be necessary.

G. Manpower

- (1) This conversion can be completed in the approximate time(s) identified below:
 - 2.0 hour(s) for removal, installation, and check out on the aircraft for each KGS 200 GNSSU.

H. Weight and Balance

- (1) None.

I. Electrical Load Data

- (1) Not changed.

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J. Software Accomplishment Summary

- (1) The new software configuration makes the changes identified below:
 - For PN 066-01201-0101, from TSO-C129a, Class B1/C1 to TSO-C145c, Class Beta-3 and TSO-C146c, Class Delta-4
 - For PN 066-01201-0102, corrects a TSO C-146c noncompliance issue identified in Service Information Letter, Publication D201104000037
 - For PN 066-01201-0102 and PN 066-01201-0104, corrects a TSO C-145c and TSO C-146c noncompliance issue identified in Service Information Letter D201207000003.
- (2) A Software Accomplishment Summary has been completed to agree with the necessary conditions of RTCA document DO-178B, Software Considerations in Airborne Systems and Equipment Certification.
- (3) This software configuration made the change identified below:
 - The application software in the Mercury² PX is changed to PN 722-20026-2203 to align with the KGS 200 Mercury² WAAS GNSSU, PN 066-01201-0105, configuration.

K. References

- (1) To find, see, and download Honeywell Technical Publications, go to www.myaerospace.com.
- (2) The document(s) that follow(s) is/are necessary to complete this conversion. Unless specified differently, you can use subsequent revisions.
 - CMM, ATA Number 34-50-17 (Publication Number 006-15706-0000), KGS 200 Global Navigation System Sensor Unit, Revision 1
 - Factory Procedure Number, 925-01458-0000, KGS 200 Mercury GNSSU Complete Alignment Test Procedure.

L. Other Publications Affected

- (1) CMM, ATA Number 34-50-17 (Publication Number 006-15706-0000), KGS 200 Global Navigation System Sensor Unit, will be changed because of this service bulletin.
- (2) This service bulletin has no effect on the test procedure.

M. Interchangeability or Intermixability of Parts

- (1) The operator must speak to the original equipment manufacturer about the interchangeability and intermixability of the KGS 200 part number(s) identified in this service bulletin.

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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 and labor 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 System (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) This conversion can be done at the Honeywell factory repair and overhaul facility only.
- (3) Honeywell can supply the parts necessary to do this conversion. There will be no cost to approved customers. If you make an order for parts, send a no-charge purchase order that refers to this Service Bulletin, ATA Number KGS 200-34-06 (Publication Number D201207000010) - free of charge. The purchase order must include only the applicable parts specified in Table 2 of this service bulletin.

B. **Industry Support Information**

- (1) Honeywell agrees to cover the costs for parts and labor of affected aircraft on approval of a warranty claim, provided the work is accomplished by an appropriately rated Honeywell service center within 36 months of the issue date of this service bulletin. A properly completed warranty claim must be filed by accessing the Honeywell Aerospace web page at: <https://portal.honeywell.com/wps/portal/aero/serviceprograms/warranty>.
- (2) A properly completed warranty claim to cover the 2.0 hours required for removal, reinstallation, and return-to-service of each KGS 200 serial number must be submitted.

C. **Material Necessary for Each Component**

- (1) The part(s) identified in Table 2 is/are necessary to do this service bulletin.

Table 2. Operator-Purchased Material

New PN	Keyword/ Nomenclature	Old PN	Qty	List Price	Instructions/ Disposition Codes
057-05287-0501	Software modification tag	057-05287-0101, 0201, or -0401	1		1
057-05917-0001	Tamper seal	057-05917-0001	1		1
057-06084-0948	Software tag	057-06084-0948	1		1
057-06136-1002	PNR tag (KGS 200)	057-06136-1002	1		1

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Table 2. Operator-Purchased Material (Cont)

New PN	Keyword/ Nomenclature	Old PN	Qty	List Price	Instructions/ Disposition Codes
057-06136-1007	Main serial number tag	057-06136-1003, -1004, -1007, or -1008	1		¹
205-00948-2203	GPS receiver	205-00948-220X	1		^{1 2}
222-30044-2203	System software (compact disk [CD] read-only memory [ROM])	222-30044-2200 or 222-30044-2202	1		¹

NOTES:

1. There is no charge for this part.
2. This part is necessary if the GPS receiver fails during testing of the KGS 200. Refer to Paragraph 3.B.(1)(b).

(2) No operator-supplied material is necessary to do this service bulletin.

D. Material Necessary for Each Spare

(1) Not applicable.

E. Reidentified Parts

(1) Not applicable.

F. Tooling - Price and Availability

(1) In addition to the equipment specified in the documents identified in Paragraph 1.K.(2), the equipment identified in Table 3 (or equivalent) is necessary to do the test of the KGS 200 GNSSU. The equipment is commercially available. Do not make an order for these items as part of this service bulletin. Refer to Paragraph 3.F.

NOTE: Refer to Table 9001 in the CMM for a complete description of the test equipment.

Table 3. Tooling

Number	Description	Source
	IBM PC with two communications and two universal serial bus ports, Windows 2000 or Windows XP. The quantity is one.	commercially available
CEI-520A-88-P	Aeronautical Radio, Inc. (ARINC) 429 PC card. The quantity is one.	CAGE: 0BPH5
34970A	data acquisition control unit. The quantity is one.	CAGE: 50443
GS-100	GPS generator. The quantity is one.	CAGE: 3ES19

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Table 3. Tooling (Cont)

Number	Description	Source
6653A	power supply. The quantity is one.	CAGE: 50443
778927-01	general purpose interface bus to universal serial bus module. The quantity is one.	CAGE: 64667

- (2) In addition to the equipment specified in Paragraph 2.F.(1), the equipment identified in Table 4 (or equivalent) is necessary to do the test of the KGS 200 GNSSU. Refer to Paragraph 3.F.

Table 4. Tooling (Additional)

Number	Description	Source
PN 071-05573-0003	mercury test set LNA. The quantity is one.	CAGE: 22373
PN 071-05585-0000	KGS 200 GNSSU test panel. The quantity is one.	CAGE: 22373
PN 200-09823-0001	general purpose multiplexer cable. The quantity is two.	CAGE: 22373
PN 200-09824-0001	general purpose relay cable. The quantity is one.	CAGE: 22373
PN 200-10012-0001	data box (ARINC) 429 transition. The quantity is one.	CAGE: 22373
PN 200-10673-0000	test cable. The quantity is one.	CAGE: 22373

- (3) In addition to the equipment specified in Paragraph 2.F.(1) and Paragraph 2.F.(2), the software identified in Table 5 is necessary to do the test of the KGS 200 GNSSU. Refer to Paragraph 3.F.

Table 5. Software

Number	Description	Source
PN 200-10673-0000	test cable. The quantity is one.	CAGE: 22373
PN 222-30153-0003	Mercury test objects. The quantity is one.	CAGE: 22373
PN 222-30155-0000	Honeywell test executive. The quantity is one.	CAGE: 22373
PN 222-30213-0002	KGS 200 GNSSU test sequence. The quantity is one.	CAGE: 22373
PN 222-30281-0001	KGS200 test sequence (WAAS). The quantity is one.	CAGE: 22373

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3. Accomplishment Instructions

A. General Information

WARNING: TO AVOID INJURY TO PERSONNEL, BE AWARE THAT VOLTAGES ARE PRESENT IN THE UNIT AND IN THE TEST EQUIPMENT. VOLTAGES AS LOW AS 28 VOLTS CAN CAUSE SERIOUS INJURY UNDER SOME CONDITIONS. DO NOT BE MISLED BY THE TERM “LOW VOLTAGE.”

CAUTION: THE KGS 200 CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE ITEMS. USE INDUSTRY APPROVED PRECAUTIONS.

- (1) Obey the precautions.
- (2) Refer to the KGS 200 Global Navigation System Sensor Unit CMM, ATA Number 34-50-17 (Publication Number 006-15706-0000), for procedures and precautions. Use all CAUTIONS and WARNINGS. Refer to the IPL in the CMM for the location of the parts, unless specified differently.
- (3) Obey standard established shop practices during conversion of the KGS 200 unless specified differently.

NOTE: This conversion must be done at a Honeywell factory repair and overhaul facility.

B. Modification

- (1) Perform the application software update in accordance with Factory Procedure Number, 925-01458-0000, KGS 200 Mercury GNSSU Complete Alignment Test Procedure.
 - (a) If the KGS 200 unit under test (UUT) passes all tests, continue to Paragraph 3.C.
 - (b) If the GPS receiver of the KGS 200 fails during testing:
 - 1 Disassemble the KGS 200. Refer to the instructions in Paragraph 3.C.
 - 2 Replace the Mercury 2 PX board, PN 205-00948-220X, with a new Mercury 2 PX board, PN 205-00948-2203.
 - 3 Continue to Paragraph 3.D.(2)

C. Disassembly

- (1) Disassemble the KGS 200 GNSSU and remove the Mercury PX GNSS (60, IPL Figure 1). Refer to the instructions in the DISASSEMBLY section of the CMM.

D. Assembly

- (1) Apply a new software tag, PN 057-06084-0948, to the Mercury 2 PX board to indicate that the software has been updated.
- (2) Assemble the KGS 200 GNSSU. Refer to the instructions in the ASSEMBLY section of the CMM.
- (3) Apply tamper proof seal, PN 057-05917-0001, to the KGS 200 GNSSU.

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E. Identification Procedure

- (1) Attach a new software modification tag, PN 057-05287-0501, to the KGS 200 GNSSU. Put the new software modification tag in approximately the same location as the tag that was on the KGS 200 GNSSU.

NOTE: This changes the KGS 200 GNSSU software to Version 05/01.

- (2) Replace the PNR tag with a new PNR tag, PN 057-06136-1002.
- (3) Replace the main serial number tag with a new main serial number tag, PN 057-06136-1007. Identify all the modifications that are installed in the KGS 200 GNSSU on the new main serial number tag. Use the main serial number tag that was removed from the KGS 200 to find the applicable modifications.
- (4) Destroy the PNR tag and the main serial number tag removed from the KGS 200. The tags must be destroyed so that they cannot be used again.

F. Testing

- (1) Do a return-to-service test of the KGS 200 GNSSU. Refer to the instructions in the TESTING AND FAULT ISOLATION section of the CMM and to the changed test procedure below.

(a) Test Equipment Set-Up

- 1 Complete the connection of the equipment for the test. Refer to Figure 1001, KGS 200 GNSSU Test Setup, of the CMM.
- 2 Connect the KGS 200 to the test cable and antenna coaxial cable.
- 3 Set the power supply for 27.5 volts, direct current (current at the 3.0 amperes limit if applicable).
- 4 Make sure that all the test equipment has a correct calibration sticker.

NOTE: Special:

Computer log-on: kgs200

Password: Welcome1

For the monthly GPS almanac/ephemeris changes, use the on-line download.

(b) Automated Test Procedure

- 1 Start from the PC in the desk top screen.
- 2 Double click on the WaasKGSMP5 icon.
- 3 Put in an applicable user name and then push OK.
NOTE: A password is not necessary.
- 4 Make sure the GS-100 is connected as specified in the set-up instructions on the top of the PC screen.
- 5 Select Test from the drop down list under Test Type! default is FINAL. Make a selection of DONE.
- 6 Click on TEST UUT.
- 7 Put in the KGS 200 serial number (numbers only) and push enter.
- 8 Let the UUT run to completion. Verify the UUT passes all tests.

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- 9 Make a copy of the ATE data sheet and put it with the paperwork.
- 10 This completes the KGS 200 GNSSU final test procedure.