Service Bulletin

BULLETIN NO: KA 90-M2
KA 90 Interface Adapter

EFFECTIVITY

KA 90 Interface Adapters, P/N 071-01508-0202, all serial numbers.

REASON

To convert a KA 90 P/N 071-01508-0202 to a P/N 071-01508-0201 at SW 01/02. This removes the extra bit from the ARINC 429 Label 100 that causes the GPS message *NAV IND CRS FAIL*.

This would be necessary if the KA 90 is installed with no installation interface to the OBS Resolver and Selected Course XYZ inputs to the KA 90. If the KA 90 071-01508 -0202 version sees no inputs on these pins, it senses it as a selected course failure. The -0201 version does not see this condition as a failure.

DESCRIPTION

This conversion consists of:

1. Replacing plug-in software IC I904 on the Main Board.
2. Replacing the software revision tag on the Main Board.
3. Replacing the unit SW Mod Tag on the chassis.
4. Replacing the unit part number suffix tag.
5. Placing an "M" sticker in front of the serial number.

COMPLIANCE

Customer option only if problem exists.

WARRANTY INFORMATION

This conversion is a product improvement and is not warranty reimbursable.

APPROVAL

This conversion does not affect the original approval.

MANPOWER

One and one half (1.5) hours labor including testing.

One half (0.5) hour labor for removal and installation of the unit.

REFERENCES

KA 90 Maintenance Manual, P/N 006-05333-XXXX.

MODIFICATION PROCEDURE

CAUTION
Any disassembly/assembly of the KA 90 MUST be done at a static-safe workstation. Removed modules should be placed in static-safe bags when not installed in the unit.

1. Disassemble the unit according to maintenance manual procedures to access the Main Board.

CAUTION
The replacement programmed IC will be packed in conductive foam to protect it from static charges. Do not remove it from the foam until ready for installation in the unit. Please take all anti-static precautions when handling this device.

2. Replace I904 P/N 122-01424-0010 or -0011 with new I904 P/N 122-01424-0001.

3. Replace the old board software rev tag on the backside of the Main Board with a new tag, P/N 057-02241-0001. The board software tags should now read 205-00702-0001.

4. Reassemble the unit according to maintenance manual procedures.

IDENTIFICATION PROCEDURE

1. Remove the last two digits from the unit part number on the KA 90 serial number tag and replace them with the 01 suffix tag, P/N 057-02203-0001, to properly identify the new part number.

2. Attach the "M" sticker, P/N 057-02984-0500, immediately in front of the serial number on the unit serial tag to indicate that the part number has been changed.

3. Attach Unit SW Mod Tag P/N 057-05287-0102 on the rear plate of the KA 90 in place of the existing tag. The tag should read "SW MOD 01/02".

TESTING PROCEDURE

Perform a complete functional test of the unit in accordance with Section 5.2 of the KA 90 Maintenance Manual. If no other repairs have been done, a full Final Test Procedure is not required. It will only be necessary to verify that the KA 90 passes the Turn-on Self-Test and Post-Install Checkout of the GPS System to which it is interfaced.

MATERIAL INFORMATION

All parts necessary to convert one KA 90 according to this service bulletin are listed below:

Part Number	Qty	Description
057-02241-0001	1	Board SW Rev Tag (01)
057-05287-0102	1	Unit SW Mod Tag (01/02)
057-02984-0500	1	"M" label
057-02203-0001	1	Unit P/N Suffix Tag (01)
122-01424-0001	1	KA 90 Programmed Device I904