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## *Service Bulletin*

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**BULLETIN NO:** KA 90-M1  
KA 90 Interface Adapter

### **EFFECTIVITY**

KA 90 Interface Adapters, P/N 071-01508-0201, all serial numbers.

### **REASON**

To convert a KA 90 P/N 071-01508-0201 to a P/N 071-01508-0202 at SW MOD 02/02. The conversion adds additional labels to the ARINC 561 output. It also adds an additional bit in the ARINC 429 label 100 to detect a selected course failure for the Honeywell symbol generator used in the Cessna CJ 525.

This conversion is necessary if the KA 90 is installed in a Cessna Citationjet CJ 525 or if the KA 90 is used to interface an IU 2023B to an RD 1400 Radar.

### **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**

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

### **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.

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

### **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.

3. Replace the old board software rev tag on the backside of the Main Board with a new tag, P/N 057-02241-0023. The board software tags should now read 205-00702-0011.
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 02 suffix tag, P/N 057-02203-0002, 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 057-05287-0202 on the rear plate of the KA 90 in place of the existing tag. The tag should read "SW MOD 02/02"

## **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 modify one KA 90 according to this service bulletin are listed below:

<b>Part Number</b>	<b>Qty</b>	<b>Description</b>
057-02241-0023	1	Board SW Rev Tag (11)
057-05287-0202	1	Unit SW Mod Tag (02/02)
057-02984-0500	1	"M" label
057-02203-0002	1	Unit P/N Suffix Tag (02)
122-01424-0011	1	KA 90 Programmed Device I904