



SERVICE BULLETIN

(Equipment Previously Supplied By Honeywell)

NC-104B-1005 NAV Concentrator
Part Number 3614331-1005
Unit Mod 31

Master Processor Module
P/N 3606467-0502
Subassembly Mod 9

Software Modification to

- **Prevent invalid Beacon Code**
- **Initialize Wx/BCN mode correctly**
- **Assure correct Tilt Status**

Reason for Change:

This Service Bulletin provides updated software to incorporate improved functionality.

Summary:

As a result of making these changes the NC104B-1005 Software Ident Code is updated to "F" and the unit modification status of the Nav Concentrator unit is updated to "Mod 31". The Master Processor Module is updated to "Mod 9".

As field implementation of this modification is not viable, customers with affected units in service who desire this product improvement should return the unit to Telephonics or to a Telephonics authorized service center for this purpose.



PART 1, PLANNING

1. Effectivity

NC-104B-1005, Part Number 3614331-1005. Upon customer request, all units should have this modification retrofit.

2. Reason

This change prevents invalid Beacon Code when standard Beacon is selected, initializes Wx/BCN mode correctly and changes Tilt Status by not updating the tilt value until label 303 sets bit 22

3. Description

This change replaces two PROMs in the unit and updates the software identification plate, the unit mod status and the mod status of the Master Processor Module of the Nav Concentrator unit.

4. Compliance

This change is recommended for operators who experience these issues. Telephonics recommends the change be accomplished at the next servicing of the unit.

5. Approval Statement

This service bulletin contains no modification information that revises the approved configuration and therefore does not require governmental or other regulatory agency approval.

6. Manpower

One (1) hour of labor including testing are estimated to incorporate this modification.

7. Weight and Balance

None.

8. Electrical Load Data

Not Changed.

9. Software

This change incorporates software version F for the Master Processor Module of the Nav concentrator unit. Software Accomplishment Summary information for this change is contained in Telephonics Document 379-SAS-006.



Command Systems Division
Product Support Department
815 Broadhollow Road
Farmingdale, New York 11735
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10. References

| | |
|--------------|-------------------------|
| 3614331-1005 | Outline Drawing |
| 3606467-0502 | Master Processor Module |

11. Affected Publications

| | |
|----------------|---|
| 006-15586-0000 | Component Maintenance Manual (Parts Lists) |
|----------------|---|

12. Warranty

This modification is covered by the warranty. For units that have been in service beyond the warranty period, please see Part 3 for information on contacting Telephonics to request that this modification be performed. Telephonics would be pleased to provide modification pricing.

PART 2, MATERIAL INFORMATION

All parts necessary to upgrade an NC-104B, P/N 3614331-1005 to revision F software according to this service bulletin are listed below:

| Part Number | Qty | Description |
|--------------------|------------|--|
| 379-9E05-008 | 1 | Programmed Microcircuit, Master Processor Software, U6 |
| 379-9E05-007 | 1 | Programmed Microcircuit, Master Processor Software, U2 |
| 26268-0001 | 1 | Plate, Identification (mark SW ident code F per SW modification 30 of drawing 3614331) |

Please call the Telephonics Product Support Department at (631) 755-7004 for material pricing.



PART 3, ACCOMPLISHMENT INSTRUCTIONS

Please call the Telephonics Product Support Department at (631) 755-7004 for return instructions and modification price (for out-of-warranty units). We can also advise you on the location of the nearest Telephonics authorized service center, if you prefer. Reference should be made to this service bulletin and PCN 379-0534 when calling and on mailing labels used for unit returns.

- 1) Disassemble the NC-104B according to maintenance manual procedures found in the Disassembly section, page 301, to access the Master Processor Module.

CAUTION

Replacement modules will be packed in conductive foam to protect them from static charges. Do not remove the module from the foam until ready for installation in the unit. Take all anti-static precautions when handling these modules.

- 2) Remove Board 3606467-0502, Master Processor Module:
 - a) Remove and replace microcircuit at U2 per the following table:

| Part Number | Replace with |
|--------------|--------------|
| 379-9E05-005 | 379-9E05-007 |

- b) Remove and replace microcircuit at U6 per the following table:

| Part Number | Replace with |
|--------------|--------------|
| 379-9E05-006 | 379-9E05-008 |

- 3) Place a dot of red paint on the board modification decal to indicate that mod 9 has been accomplished for the Master Processor Module.
- 4) Reassemble the unit according to the instructions in the Assembly Section, page 701, of the Maintenance Manual.
- 5) Perform a complete functional test of the unit in accordance with the Testing and Troubleshooting section, page 101, of the maintenance manual.



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PART 4, IDENTIFICATION PROCEDURE

Remove and replace the Software Identification Code Plate with the Software Identification Code Plate marked for Revision F.

Place a dot of red paint on the Modification Plate on the front of the NC104-1005 Nav Concentrator Unit to indicate that Mod 31 has been accomplished.

Place a dot of red paint on the board modification decal to indicate that Mod 9 has been accomplished for the Master Processor Module.

For additional information contact:

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