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NAVSHIPS 0967-066-7360

28-AN/URC-32

14-AN/URC-32

11-AN/URC-32

ELECTRONICS FIELD CHANGE BULLETIN
NAVAL SHIP SYSTEMS COMMAND
DEPARTMENT OF THE NAVY
WASHINGTON, D.C. 20360

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This field change bulletin contains electronic equipment field change information originally published in the following issues of the Electronics Information Bulletin.

817 & 820

20 AUG 1974

Field Change 28-AN/URC-32, 14-AN/URC-32A,
11-AN/URC-32B—Modification to FSK Circuit, Type II,
Class A; 1 Manhour Required: Routine Action

All Commands are advised to order, in advance, the necessary quantities of materials required to ensure availability when implementation instructions are issued.

NOTICE

Do not implement modifications until properly notified. All activities will be notified via ALCOM message when to implement this modification for conversion to RFCS and AFTS RATT single channel mark low-space high operation."

This field change applies to all serial numbered equipments.

The purpose of this field change is to modify the frequency shift keying (FSK) mode of operation to position the space frequency 2425Hz above the carrier frequency, and the mark frequency 1575Hz above the carrier frequency.

This field change can be identified by the presence of an 8200 ohm resistor in series with diode 5CR6. Field Change 7-AN/URC-32, NAVSHIPS 0967-066-7140, must be accomplished prior to installing this field change. No requisite field changes are required to the AN/URC-32A or AN/URC-32B. Equipment nomenclature is not affected.

Material Required: Resistor 8,200 ohms, 2 watt, RC42GF822J, FSN 9N5905-192-4504.

Tools Required:

- Screwdriver, Phillips head
- Pliers, long nose, 6 inch
- Wirecutters, diagonal
- Soldering Iron (100 W)
- Solder, 60/40 resin

Test Equipment Required: None

Procedure:

1. Refer to figure 1 of this change and technical manual NAVSHIPS 0967-066-7010, figure 5-63 and 5-119 and proceed as follows:

NOTE

Observe All Safety Precautions.

2. De-energize and secure all power to the equipment.
3. Remove the two retaining screws on the convertor monitor, CV-730/URC chassis, and swing chassis away from frame. Remove P1, P2 and P3 from J1, J2 and J3.
4. Remove rear dust cover.
5. Disconnect CR6 and CR2 from the standoff to which R11, R12, CR2 and CR6 are connected.
6. Connect R31, 8200 ohms, to the standoff described in step 5.
7. Splice the free ends of CR6 and R31 and solder.
8. Disconnect CR3 from ground lug.
9. Connect CR3 to standoff described in step 5; solder CR3 and R31.
10. Connect CR2 to ground lug described in step 8.
11. Install rear dust cover.
12. Secure CV-730/URC chassis to main frame.
13. Remove the front dust cover.
14. Locate FSK freq. adj. controls C4 and C6. Remove the word (hi) located near C6 and remove the word (low) located near C4.
15. Return the equipment to normal operation.

16. Refer to Maintenance Standards Book for Radio Set AN/URC-32, 32A, -32B, NAVSHIPS 0967-066-7060, section B, step 2 and perform the indicated test. Note that the space frequency is 2425Hz and the mark frequency is 1575Hz, after the field change is accomplished.

Routine Instructions:

Correct the Technical Manual, NAVSHIPS 0967-066-7010; Maintenance Standards Book, NAVSHIPS 0967-066-7060; and Overhaul and Repair Manual, NAVSHIPS 0967-066-7070 in

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accordance with T-10, NAVSHIPS 0967-066-7017 dated May 1974; T-1, NAVSHIPS 0967-066-7061 dated May 1974; and T-2, NAVSHIPS 0967-066-7072 dated May 1974.

Maintenance support activities shall correct their publications immediately but keep the superseded data intact for support of equipment that have not been modified. Holders of equipments should not make the correction until the field change has been accomplished.

Personnel accomplishing this field change shall record its completion on the Field Change Accomplished Plate FSN I0264-085-0000, and on the Record of Field Changes Card NAVSHIPS 537, if MDCS has not been implemented. If MDCS is implemented, record completion on the Field Change Accomplished Plate and on the appropriate Shipboard Maintenance Action Form in accordance with OPNAV 43P2 using Equipment Identification Code (EIC) number QD4H000 (AN/URC/32), QD4J000 (AN/URC-32A), QD4K000 (AN/URC-32B).

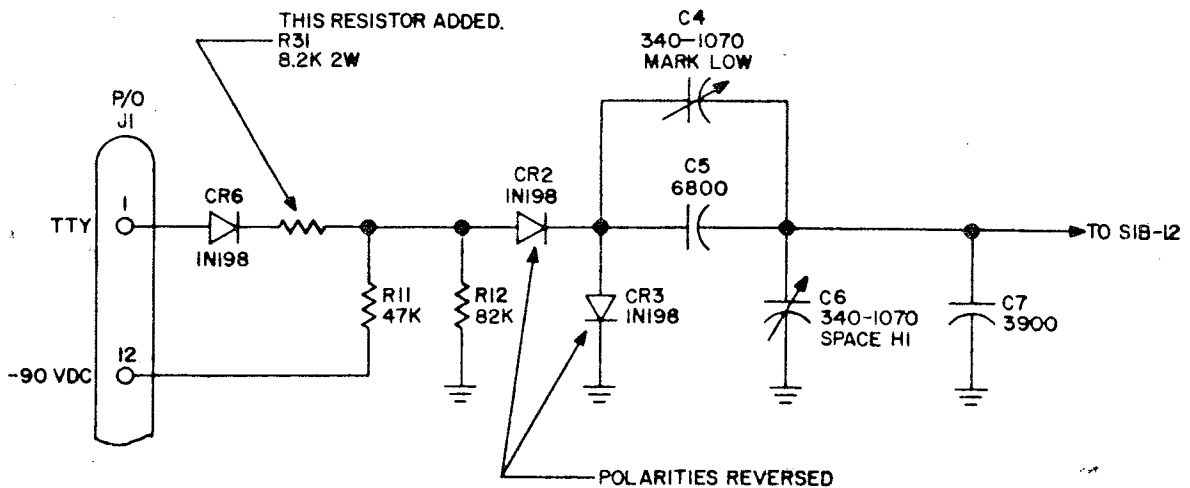


Figure 1. Modified Converter-Monitor CV-730/URC, Provides FSK Reversal—Mark Low, Space Hi. Unit 5, AN/URC-32, -32A, -32B Partial Schematic.