

TEMPORARY CORRECTION T-1 TO TECHNICAL MANUAL FOR RADIO TRANSMITTING SETS
AN/WRT-2 NAVSHIPS 93319

This temporary correction revises the manual to reflect the equipment changes made by Field Change 1-AN/WRT-2. The purpose of this field change is to modify the printed circuit board in order to improve the performance at operating temperatures of 65°C. The field change applies to serial numbers 1 through 234 only.

When this change is included in the manual, the manual shall cover the equipment as though Field Change 1-AN/WRT-2 had been accomplished on the equipment. This correction does not supersede any other corrections or changes.

Holders of equipment accompanied by technical manuals shall not make this correction in the manual until accomplishment of the field change. Maintenance Support Activities shall make corrections in the technical manual immediately upon receipt.

Make the following pen-and-ink corrections. Insert this temporary correction in the technical manual immediately after the front cover and preceding the title page.

Figure 4-10, 10:1 Frequency Divider Circuits, Simplified Schematic Diagram, should be corrected as follows:

- (1) Delete all symbols and lettering for C1322, C1328, C1342, and C1348.
- (2) Under symbol number R1321, change "10" to "51".
- (3) Under symbol numbers R1364, R1345, and R1355, change "10" to "100".

Figure 5-49 (Sheet 1), R. F. Generating Circuits, Functional Schematic Diagram, and Figure 6-27, Electrical Frequency Control C-2764/WRT-2, Schematic Diagram, should both be corrected with pen-and-ink in the same manner as for Figure 4-10.

Table 7-1, Maintenance Parts List, should be corrected with pen-and-ink as follows:

(1) For C1322, C1348, C1328, and C1342, delete all information under Name and Description and Locating Function. Substitute the words "Not used" for the former name and description.

(2) For R1321, change 10 ohms $\pm 10\%$ to 51 ohms $\pm 5\%$, change RC20GF100K to RC20GF101K. Delete "Same as R381".

(3) For R1345, delete "Same as R1321" and insert the following:
RESISTOR, FIXED COMPOSITION: 100 ohms $\pm 10\%$, $\frac{1}{2}$ W, RC20GF101K, spec. MIL-R-11.

(4) For R1355 and R1364, change "Same as R1321" to "Same as R1345".

**TEMPORARY CORRECTION T-2 to TECHNICAL MANUAL FOR RADIO TRANS-
MITTING SET AN/WRT-2 NAVSHIPS 93319(A)**

This temporary correction revises the manual to reflect the equipment changes made by Field Change 2-AN/WRT-2. The purpose of this field change is to remove diodes CR1342 and CR1343 in order to reduce the amplitude of in-band spurious signals and noise. This field change applies to sets serials 1 through 355.

When this change is included in the manual, the manual shall cover the equipment as though Field Change 2-AN/WRT-2 had been accomplished on the equipment. This correction does not supersede any other corrections or changes.

Maintenance Support Activities shall make this correction in the technical manual immediately after Field Change 2-AN/WRT-2 has been accomplished.

Holders of equipment accompanied by technical manuals shall not make this correction in the manual until accomplishment of the Field Change

Make the following pen and ink corrections. Insert this temporary connection in the technical manual immediately after T-1.

1. On Figure 4-10 10:1 Frequency Divider Circuits, Simplified Schematic Diagram, in the lower left hand quarter delete CR1342 and CR1343.
2. On Figure 5-49 (Sheet 1) R-F Generating Circuits, Functional Schematic Diagram at location 5C and on Figure 5-25, E1301, Binary No. 1, Feedback Counter, 100 kc Amplifier, Location of Parts, upper right hand corner and on Figure 6-27 and 6-27A Electrical Frequency Control C-2764/-WRT-2, Schematic Diagram, at location 5C delete diodes CR1342 and CR1343.
3. In paragraph 4-2b(8)(d) on page 4-17 delete the first sentence.
4. On page 7-87 opposite CR1342 and CR1343 in NAME AND DESCRIPTION column delete "Same as CR1316" and insert "Not Used". In LOCATING FUNCTION column delete all information opposite CR1342 and CR1343.

TEMPORARY CORRECTION T-3 t TECHNICAL
MANUAL FOR RADIO TRANSMITTING SET AN/WRT-2

This temporary correction contains information originally published in EIB 551 and shall be accomplished only if these errors were not corrected at the time the EIB was published or were not corrected in a subsequent change or revision of the particular equipment publication.

The purpose of this temporary correction is to assure that publications drawn from stock subsequent to publication of this information in the EIB can be corrected.

Make the following pen and ink corrections and insert this temporary correction in the publication immediately behind the front cover.

An error appears in the footnote at bottom of page 1-3 of the Technical Manual. This should read "For 115-volt ships supply, multiply current values by 2; and for 440-volt ships supply, divide current values by 2."

AUGUST 1963

**TEMPORARY CORRECTION T-4 TO TECHNICAL MANUAL
FOR RADIO TRANSMITTING SET AN/WRT-2**

NAVSHIPS 93319 (A)

This temporary correction revises the manual to reflect the equipment changes made by Field Change 7-AN/WRT-2. The purpose of this field change is to replace the Thermostatic Switches S-305 and S-602 with encapsulated Thermostatic Switches to preclude possible atmospheric contamination due to free flowing mercury in the case of a broken thermostatic switch. This field change applies to all AN/WRT-2 Radio Transmitting Sets now installed in nuclear powered submarines and to all AN/WRT-2 Radio Transmitting Sets intended for installation in nuclear powered submarines.

This correction does not supersede any other corrections or changes.

Holders of equipment accompanied by technical manuals shall not make this correction in the manuals until accomplishment of the field change.

Make the following pen-and-ink corrections in NAVSHIPS 93319(A). Insert this temporary correction in the technical manual immediately after the front cover.

1. In Table 7-1, Radio Transmitting Set AN/WRT-2 Maintenance Parts List, refer to Reference Designation S-305. Under Name and Description, delete all after "mercury in glass", and substitute "encapsulated in a square aluminum block 9" long x 1/2" sides, with a slip-size hole for # 6 screw centered 1/2" from bottom, mfr 48620, mfr dwg. A010826-1".

2. In Table 7-1, Radio Transmitting Set AN/WRT-2 Maintenance Parts List, refer to Reference Designation S-602. Under Name and Description, delete all after "mercury in glass" and substitute "encapsulated in a square aluminum block 9" long x 1/2" sides, with a slip-size hole for # 6 screw centered 1/2" from bottom, mfr 48620, mfr dwg. A010826-1".

**CHANGE 3 TO TECHNICAL MANUAL FOR RADIO TRANSMITTING SET
AN/WRT-2 NAVSHIPS 93319 (A)**

This permanent change revises this technical manual to reflect the changes made in the equipment and the errors found after publication of the original manual, Change 1 and Change 2.

Maintenance Support Activities shall insert this change in the technical manual immediately upon receipt. When this change is included in the manual, the manual shall cover the equipment with all the changes made up to the date of this instruction sheet.

1. Remove superseded pages and insert revised pages as indicated below:

| <i>Page</i> | <i>Remove</i> | <i>Insert</i> | <i>Page</i> | <i>Remove</i> | <i>Insert</i> |
|-------------|---------------|---------------|--------------|---------------|---------------|
| T.P./ii | Ch. 2/Ch. 2 | Ch. 3/Ch. 3 | 5-58A/5-58B | Ch. 2/Ch. 2 | Ch. 3/Ch. 3 |
| iiA/iiB | -/- | Ch. 3/Ch. 3 | 5-62E/5-62F | Ch. 2/Ch. 2 | Ch. 3/Ch. 3 |
| vii/viii | Ch. 2/Ch. 2 | Ch. 2/Ch. 3 | 6-15/6-16 | Ch. 2/Ch. 2 | Ch. 3/Ch. 3 |
| xi/xii | Ch. 2/Ch. 2 | Ch. 3/Ch. 3 | 6-17/6-18 | Ch. 2/Ch. 2 | Ch. 3/Ch. 3 |
| xiiA/xiiB | Ch. 2/Ch. 2 | Ch. 2/Ch. 3 | 6-21/6-22 | Ch. 1/Ch. 1 | Ch. 1/Ch. 3 |
| 1-1/1-2 | Orig/Orig | Ch. 3/Ch. 3 | 6-23/6-24 | Ch. 1/Ch. 1 | Ch. 3/Ch. 3 |
| 1-2A/1-2B | -/- | Ch. 3/Ch. 3 | 6-45/6-46 | Orig/Orig | Ch. 3/Ch. 3 |
| 1-5/1-6 | Orig/Orig | Ch. 3/Orig | 6-47/6-48 | Orig/Orig | Ch. 3/Ch. 3 |
| 1-7/1-8 | Ch. 1/Ch. 1 | Ch. 3/Ch. 3 | 6-50A/6-50B | Ch. 2/Ch. 2 | Ch. 3/Ch. 3 |
| 2-1/2-2 | Orig/Orig | Ch. 3/Orig | 6-52A/6-52B | Ch. 2/Ch. 2 | Ch. 3/Ch. 3 |
| 2-3/2-4 | Orig/Orig | Orig/Ch. 3 | 6-53/6-54 | Ch. 2/Ch. 2 | Ch. 3/Ch. 3 |
| 2-5/2-6 | Orig/Orig | Ch. 3/Orig | 6-54A/6-54B | Ch. 2/Ch. 2 | Ch. 3/Ch. 3 |
| 2-16A/2-16B | -/- | Ch. 3/Ch. 3 | 6-54C/6-54D | Ch. 2/Ch. 2 | Ch. 3/Ch. 3 |
| 4-15/4-16 | Ch. 2/Ch. 2 | Ch. 2/Ch. 3 | 6-57/6-58 | Orig/Orig | Ch. 3/Ch. 3 |
| 4-17/4-18 | Orig/Orig | Ch. 3/Orig | 6-68A/6-68B | Ch. 2/Ch. 2 | Ch. 3/Ch. 3 |
| 4-35/4-36 | Orig/Orig | Ch. 3/Orig | 7-0A to 7-0L | Ch. 2/Ch. 2 | -/- |
| 5-44A/5-44B | -/- | Ch. 3/Ch. 3 | 70A to 7-0N | -/- | Ch. 3/Ch. 3 |
| 5-57/5-58 | Ch. 2/Ch. 2 | Ch. 3/Ch. 3 | | | |

2. Make the following pen-and-ink corrections and mark "Ch. 3" adjacent to the pen-and-ink corrections.

| <i>First Issued In</i> | <i>Page No.</i> | <i>Change in Effect</i> | <i>Column or Figure</i> | <i>Line or Location</i> | <i>Action</i> |
|--------------------------------|---------------------|---------------------------------|---------------------------------|---------------------------------|---|
| Ch. 3 | 4-49 | Ch. 1 | 4-30 | Lower Right | At T807 change reference from "17V AC" to "25V AC". Change valve of C857 from "4700" to "0.01 UF". |
| Ch. 3 | 4-50 | Orig | 2 | (9) (b) Line 2 and Line 4 | Change "17 volts" to "25 volts". |
| Ch. 3 | 4-50A | Ch. 2 | 4-30A | Lower Right | At T807 change reference from "17V AC" to "25V AC". Change valve of C857 from "4700" to "0.01 UF". |

CHANGE 3

INSTRUCTION SHEET

| <i>First Issued In</i> | <i>Page No.</i> | <i>Change in Effect</i> | <i>Column or Figure</i> | <i>Line or Location</i> | <i>Action</i> |
|------------------------|-----------------|-------------------------|-------------------------|-------------------------|--|
| Ch. 3 | 5-35 | Orig | 5-25 | Upper Right | Delete "CR1342" and "CR1343". |
| | | | | Lower Left | Delete "C1348". |
| | | | | Lower Right | Delete "C1322". |
| Ch. 3 | 5-36 | Orig | 5-26 | Left | Delete "C1328". |
| | | | | Right | Delete "C1342". |
| Ch. 3 | 5-40 | Orig | 5-32 | Bottom | Add reference "MP361" to tool inserted in clip. |
| Ch. 3 | 5-53 | Orig | 5-47 | Zone 3D | Change valve of R523 from "25K" to "2.5K". |
| | | | | Zone 7C | At T807 change reference from "17V AC" to "25V AC". |
| Ch. 3 | 5-59 | Ch. 2 | 5-49 | Zone 13C | At R748 add "▲". |
| | | | | Notes | Add "▲" set serials 264 and up value is 133K. |
| Ch. 3 | 5-61 | Ch. 1 | 5-50 | Zone 8C | Add resistor "R1246 150" between T1210 and J1201. At T1210 interchange terminals "3" and "4". |
| Ch. 3 | 5-62A | Ch. 1 | 5-50A | Apron | Change "R1246 9C" to "R1246 8C". |
| | | | | Zone 8C | Add resistor "R1246 150" between T1210 and J1201. At T1210 interchange terminals "3" and "4". |
| Ch. 3 | 5-62C | Ch. 2 | 5-50B | Apron | Add "R1246 8C". |
| | | | | Zone 8C | Add resistor "R1246 150" between T1210 and J1201. At T1210 interchange terminals "3" and "4". |
| Ch. 3 | 5-63 | Ch. 1 | 5-51 | Apron | Add "R1246 8C". |
| | | | | Zone 1A and 1B | At T201, T202 and T203 change reference voltage from "820V AC" to "803V AC" and "550 V AC" to "545V AC". |
| | | | | Zone 8C | At junction of R844 and R845 change reference voltage from "17V AC" to "25V AC". |
| Ch. 3 | 5-64A | Ch. 2 | 5-51A | Zone 8D | Change valve of C857 from "4700" to "0.01 UF". |
| | | | | Zone 1A and 1B | At T201, T202 and T203 change reference voltage from "820V AC" to "803V AC" and "550V AC" to "545V AC". |
| | | | | Zone 8C | At junction of R844 and R845 change reference voltage from "17V AC" to "25V AC". |
| | | | | Zone 8D | Change valve of C857 from "4700" to "0.01 UF". |