

ADDENDATOTHE RDF-10 RADIO DIRECTION FINDER

The following corrections and changes should be applied to the current issue of the RDF-10 Radio Direction Finder Instruction Manual.

1. Page 7, Calibration, Item 9 should be as follows:
  9. Plot the 36 readings taken on the deviation chart, figure 5.

For example the readings may appear as follows:

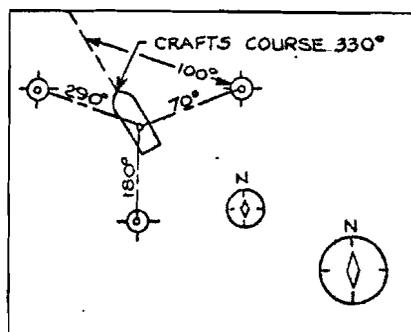
<u>PELORUS</u>	<u>RDF BEARING</u>	<u>DEVIATION CORRECTIONS</u>
0°	0	
10°	7 1/2	+2 1/2
20°	16	+4
30°	25 1/2	+4 1/2
40°	35	+5
50°	45	+5
60°	55 1/2	+4 1/2
70°	66	+4
80°	77 1/2	+2 1/2
90°	90	0
100°	102 1/2	-2 1/2
110°	114	-4
120°	124 1/2	-4 1/2
130°	135	-5

The curve for these example readings are shown as a dotted line on the deviation chart.

2. Page 7, Calibration, Item 10 should be as follows:

10. Thereafter when a "DF" bearing is taken the deviation according to the White Scale must be applied to the "DF" bearing. In other words the DEVIATION IS A CORRECTION for the craft's construction or metallic objects and is referenced to the keel line. Set the Rose to  $360^{\circ}$  dead ahead or the bow of the craft. The reading of the loop can be noted directly on the Rose. For example refer to Figure 3A and Figure 5, note the bearing readings and the craft's course and use the example Pelorus and RDF bearing readings, AND DEVIATION CHART ON PAGE 8. The craft's course is  $330^{\circ}$ , a beacon station is at  $70^{\circ}$ . This means the beacon is at  $100^{\circ}$  (between  $330^{\circ}$  and  $70^{\circ}$ ), with reference to the keel line therefore  $4^{\circ}$  must be added to the  $70^{\circ}$  to obtain a true bearing of  $74^{\circ}$ , with reference to the beacon station. The inclusion of the White Scale enables a quick determination of the deviation without having to calculate the position of the loop with the keel line.

3. Page 5, Figure 3A, should be as follows:



4. Diode CR102 was deleted from B $\frac{1}{2}$  supply, and was replaced by wafers, as indicated in Item 5 for improved battery life.
5. Insulation washers part number K26593-1 were added to Battery Holder CAP so that the receiver would not be damaged with wrong polarity on the batteries.
6. Resistor R129 was 10 ohms  $\pm$  10% is now 30 ohms  $\pm$  5%. To increase audio output.
7. Listed below is a set of transistors with minimum beta values as indicated. These transistors are available from The Hammarlund Manufacturing Co., Mars Hill, Madison County, North Carolina or may be purchased over the counter at radio parts distributors.

<u>TRANSISTOR</u>	<u>PART NO.</u>	<u>MINIMUM BETA</u>
Q105 2N293	K40769-1	20
Q106 2N169	K40770-1	50
Q108 2N192	K40771-1	60
Q109 2N188A	K40772-1	35
Q110 2N188A	K40772-1	35

8. Capacitor C148 was added to the mixer circuit to eliminate a suck-out in the marine band.
9. Capacitor C131 was .1 MFD is now .05 MFD to increase audio output.
10. Resistor R117 was 2.7K is now 4.7K to increase audio output.