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DEPARTMENT OF THE ARMY TECHNICAL MANUAL

OPERATOR, ORGANIZATIONAL,
FIELD AND DEPOT MAINTENANCE MANUAL

TEST SET 1-76

TEST OSCILLATORS

BC-376-A, -B, -C, -D, -E, -F, -G, -H, and -K

AND

TEST INDICATORS

BE-67, -A, and -C

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OPERATOR, OMNIZATIONAL, FIELD, AND) DEPOT MAINTENANCE MANUAL
 TEST SET I-76, TEST OSCILLATORS BC-376-A -B, -C, -D, -E, -F, -G, -H, AND -K
 AND TEST INDICATORS BE-67, -A, AND -C

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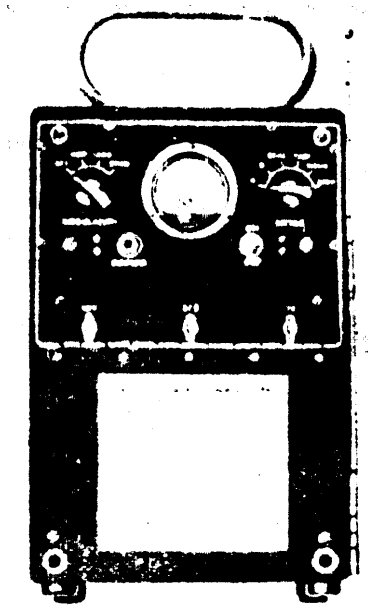


Figure 1-1. Test Oscillator BC-376-H

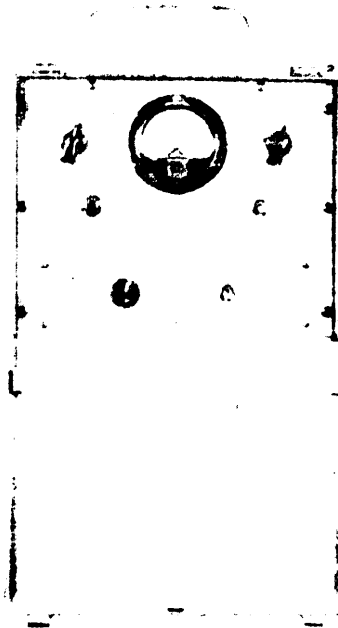


Figure 1-1A. Test Oscillator BC-376-K

SECTION I
GENERAL DESCRIPTION

1. GENERAL.

a. Test Set I-76 consists of Test Oscillator BC-376-()* and Test Indicator BE-67-()**.

b. Test Oscillator BC-376-() (see figures 1-1 and 1-1A) is ground equipment used in conjunction with Test Indicator BE-67-() for adjustment and tuning of marker beacon receivers and transmitter. This equipment is a portable, low-power, high-frequency oscillator, with self-contained power supply. Operating on a crystal controlled frequency of 75 megacycles, either modulated or unmodulated, its effective operating range is approximately 20 feet.

c. Test Indicator BE-67-() (see figures 1-2, 1-2A, and 1-2B), used with the test oscillator, consists of a milliammeter, potentiometer, and two batteries. It is used as an output meter for tuning marker beacon

* Any reference to Test Oscillator BC-376-() in this handbook will refer to Test Oscillators BC-376A-, -B-, -C-, -D-, -E-, -F-, -G-, -H-, and -K unless specifically noted.

** Any reference to Test Indicator BE-67-() in this handbook will refer to Test Indicator BE-67, BE-67-A, and BE-67-C. The units are similar electrically and mechanically, but differ as to reference symbols need for components.

receivers, and to supply direct current to the relay for relay adjustment. It is listed in paragraph 3, this section.

2. EQUIPMENT SUPPLIED.

The table below lists equipment supplied with Test Set I-76.

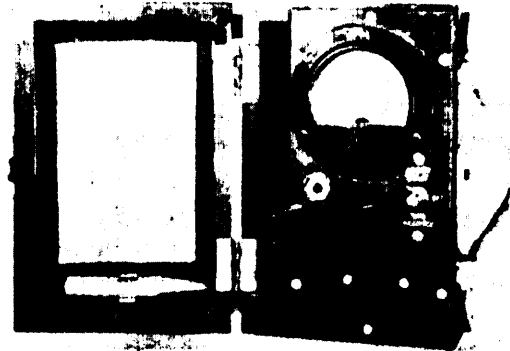


Figure 1-2A. Test Indicator BE-67-A
Exterior View With Cover Open

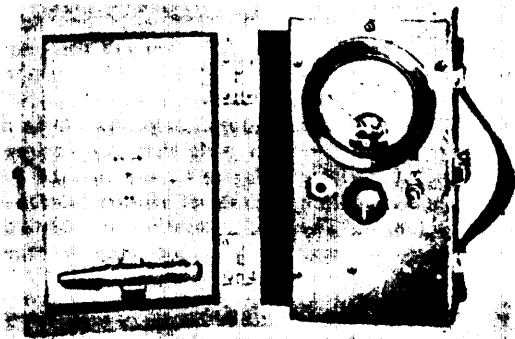


Figure 1-2. Test Indicator BE-67
Exterior View with Cover Open

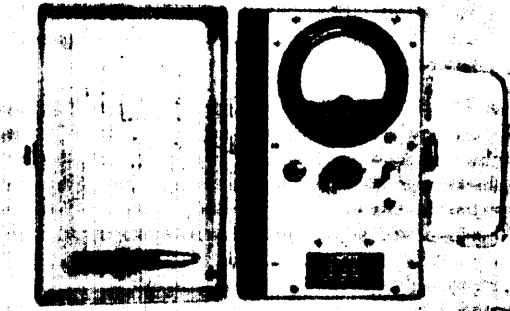


Figure 1-2B. Test Indicator BE-67-C
Exterior View with Cover Open

Quantity per Equipment	Name of Unit	Army Type Designation	Navy Type Designation	Overall Dimensions (inches)	Weight (Pounds)
1	Test Oscillator including complete tube complement	BC-376-()		†	†
1	Test Indicator	BE-67-()		†	†

† The various production models differ in dimensions and weight. Test Oscillator BC-376-E is 21.5 pounds and 9-3/16" x 12-5/16" x 7 3/4"; while Test Oscillator BC-376-H is 17.75 pounds and 8-9/16" x 13 3/4" x 7 3/4". Test Oscillator BC-376-A, -B-, -C-, and -E are similar electrically, and mechanically. Test Oscillator BC-376-F and -G are similar electrically and mechanically. Test Oscillator BC-376-K is 20.25 lbs. and 9 1/4" X 15 5/8" X 7.13/16". Test Indicator BE-67 measures 7 7/8" X 5 1/8" x 5-15/16". BE-67-A is 7 7/8" X 5 1/4" X 6", BE-67-C is 8-3/32" X 5-5/32" X 6 3/8". All models of Test Indicator weigh approximately 3 lbs. less batteries.