114A TEST SET
DESCRIPTION AND MAINTENANCE

1. GENERAL

1.01 This section describes the 114A Test Set used to supply tone for locating open conductors in multiple line wire. This test set can also be used for identifying cable pairs.

1.02 For locating opens in multiple line wire, the 114A Test Set is used in place of the 76-type test set in conjunction with the 111A Test Set or 513A Tool (see Section 624-800-300).

1.03 The 114A Test Set can be used as a tone source for identifying cable conductors in dead cables. It may also be used in working cables but for this purpose separate means must be provided for making the necessary listening tests to prevent interference to subscribers. The set can also be used in place of the 76-type test set with the 108A Test Set for "one man" identification work as described in Section 634-210-507.

2. DESCRIPTION

2.01 The transistorized 114A Test Set shown in Fig. 1 is powered by two 6.5 volt mercury batteries. With batteries, it weighs about 1-1/4 pounds. A battery life of approximately 200 hours can be expected under normal conditions.

2.02 The test set has a plastic case with a removable cover and detachable strap as shown in Fig. 1 and Fig. 2. The cover is secured to the case by a captive screw. The two output terminals and ON-OFF switch are connected inside the case to a printed network which mounts the two mercury batteries and other circuit components.

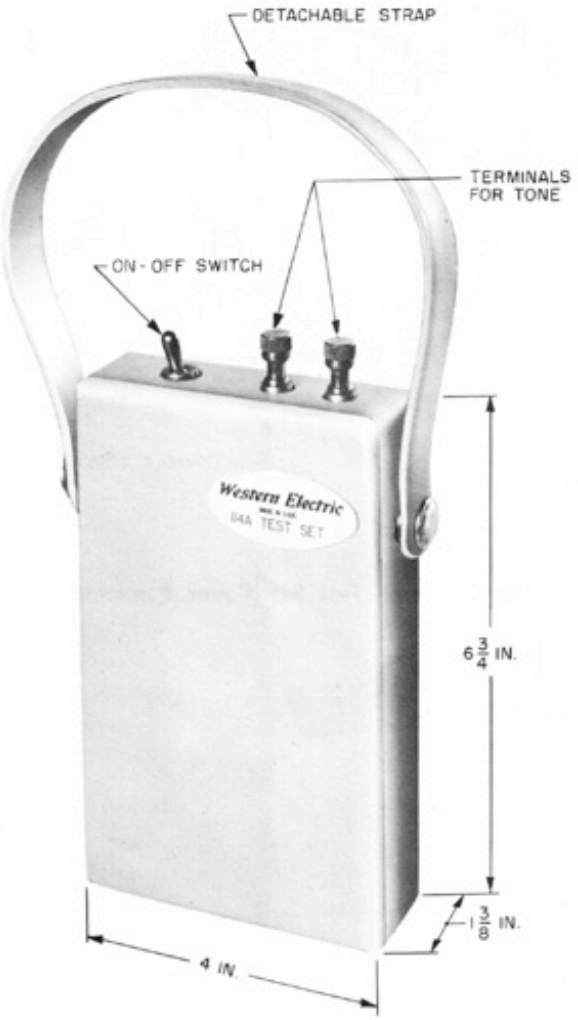

Fig. 1 — 114A Test Set (Front View)

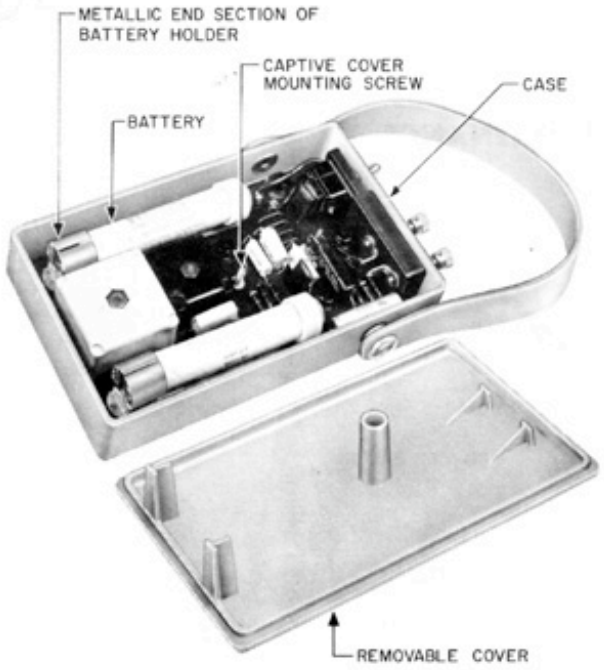

Fig. 2 — 114A Test Set (Cover Removed)

3. MAINTENANCE

3.01 No maintenance should be performed in the field except replacement of batteries. Two Mallory TR-135R, 6.5 volt batteries are used in the set.

3.02 A battery should be replaced when its voltage, under load, measures 5.8 volts or less. If one battery requires replacement, replace both.

3.03 To replace the batteries, loosen the captive cover mounting screw in the center of the case (see Fig. 2) and remove the cover. Then push the metallic end section of the battery holder in toward the battery and remove the battery and holder. Place the new battery in the holder, then remount the holder. Replace the cover and securely tighten the captive cover mounting screw.

Caution: When replacing the batteries, position them for correct polarity as indicated on the battery holders, otherwise the transistors may be damaged.