

CABLE TESTING—GENERAL

IDENTIFYING CONDUCTORS WITH 84A TEST SET (CABLEMAN'S TALKING SET)

1. GENERAL

1.01 This section covers the method of using the 84A test set for:

- Establishing a talking circuit
- Identifying conductors in conjunction with the 147-type amplifier
- Testing conductors for continuity.

1.02 This is a general revision, arrows ordinarily used to indicate changes have been omitted.

1.03 The 84A test set can be used to establish a talk circuit on either repeated or nonrepeated voice frequency circuits.

1.04 Section 106-020-120 covers the description and maintenance of the 84A test set. Section 106-300-100 covers the description and maintenance of the 147-type amplifier.

1.05 The 84A test set is powered by one KS-6570 battery.

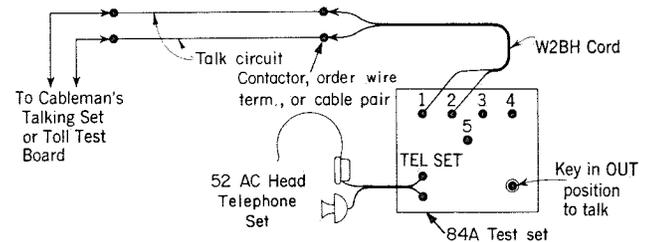
1.06 This information was formerly contained in Section 634-040-503.

2. USE

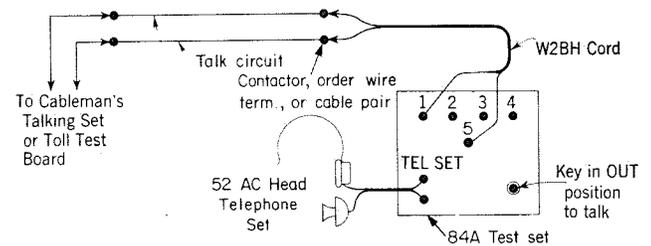
2.01 At carrier or contactor locations, having an order wire or talk pair, connect the 84A test set to the talk pair as illustrated in Fig. 1.

2.02 Where individual pairs are to be identified, the 84A test set is used in conjunction with the 147-type amplifier as illustrated in Fig. 2.

Note: Where the pair is to be used as a talk circuit, connect the pair to the 84A test set as illustrated in Fig. 1.



A-Repeated VF Circuit



B-Nonrepeated VF Circuit

Fig. 1—Talk Circuit

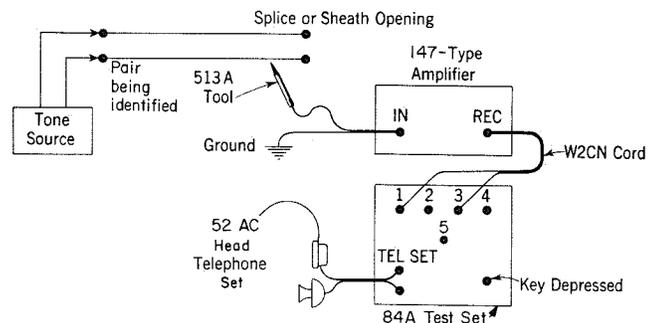


Fig. 2—Identifying Individual Pairs

2.03 Figure 3 illustrates the 84A test set used in conjunction with the 147-type amplifier as a talk-set and to identify individual pairs.

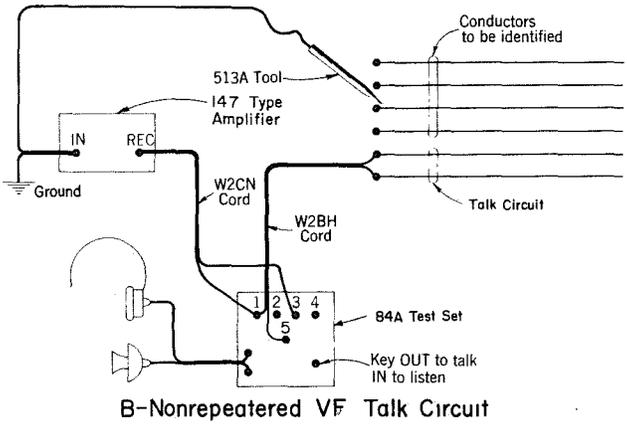
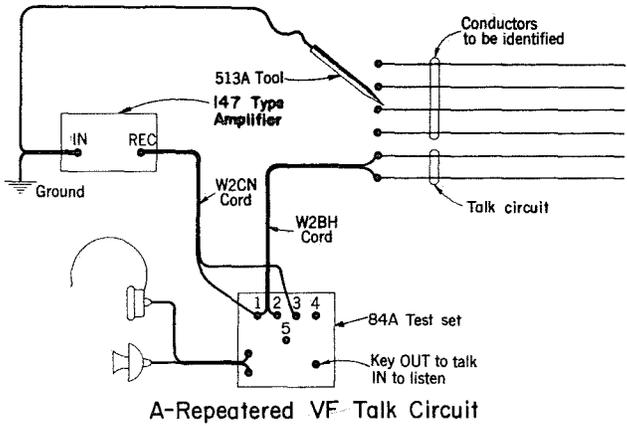


Fig. 3—Talk Circuit and Pair Identification

2.04 Conductors in dead cables can be identified by the battery, receiver method as follows:

(a) When both ends of a cable are available at one point, ie, load coils, stub cables, etc, the conductors can be identified as illustrated in Fig. 4.

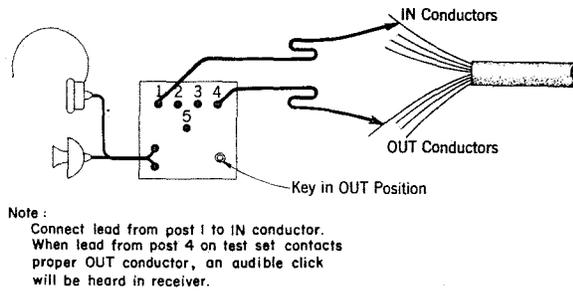


Fig. 4—Battery Receiver Method—Both Ends Available

(b) When both ends of a cable are not available at one point, the conductors can be identified as illustrated in Fig. 5 and 6.

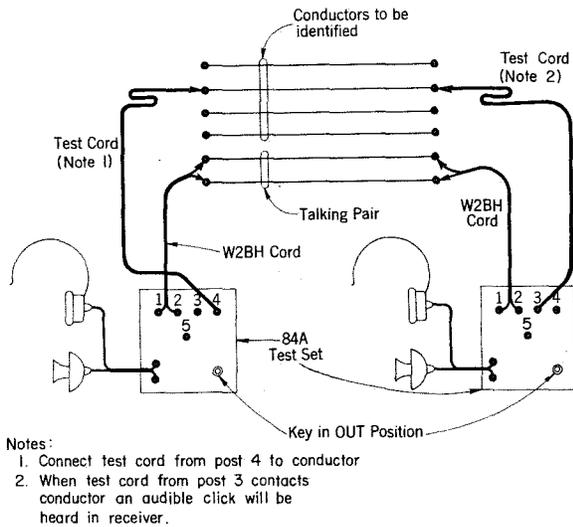
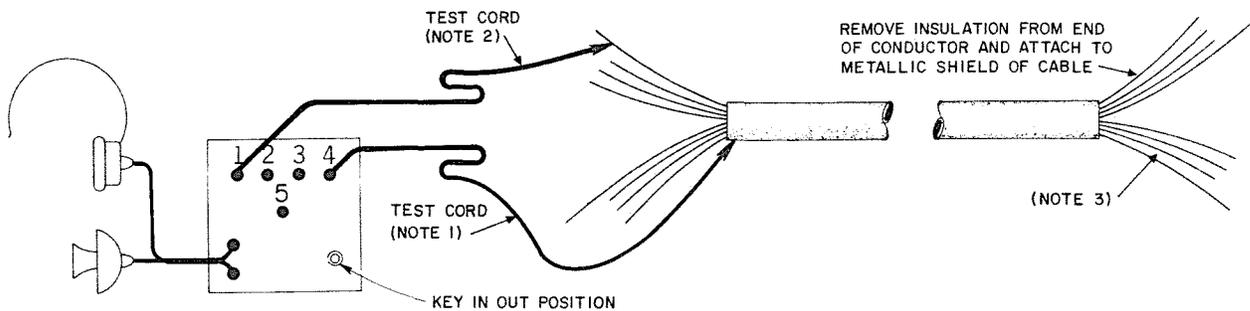


Fig. 5—Battery Receiver Method—Two Test Sets



NOTES:

1. ATTACH TEST CORD FROM POST 4 TO METALLIC SHEATH.
2. WHEN THE TEST CORD FROM POST 1 CONTACTS THE PROPER CONDUCTOR AN AUDIBLE CLICK WILL BE HEARD IN THE RECEIVER.
3. CLEAR THE ENDS OF ALL CONDUCTORS NOT TO BE IDENTIFIED.

Fig. 6—Battery Receiver Method—One Test Set