

3.12 The 200 circuit encoder provides test access at the far end of the wiring being tested and for identification purposes this end will be considered as "End B" or the point of destination.

3.13 Each lead designation of every cable should be "buzzed" between the respective "to" and "from" terminations until all conductors have been verified. Conductor colors should not be employed during verification operations. Continuity verification must be performed as a terminal-to-terminal check disregarding the associated lead color. Terminal-to-terminal checking not only provides for continuity checking of the leads, but verifies the integrity of functional lead assignments within a circuit. This type of checking, thereby, eliminates the chance of missing slipped terminals that can readily occur when checking by color code.

3.131 Continuity verification as described above is performed with the ITE-4137 or ITE-4137A AC Continuity Set, although any standard "buzzer" may be used.

3.132 Plug the ITE-4137 or ITE-4137A into a 105-125V AC outlet and verify the continuity of short leads as illustrated in Figure 1. Verify the continuity of long leads as shown in Figure 2 or 3.

3.133 When not in use, disconnect power from ITE set by removing plug from frame AC outlet.

3.14 If a wiring error and/or reversal is located during verification, affected lead(s) should be reconnected to the proper termination(s) immediately according to handbook requirements. If not corrected immediately, leads should be clearly identified with R-3436 Flags and an accurate record kept on SD-4-1313 of future action to be taken.

3.2 Continuity and Lead Verification Tests

3.21 Testing cables from crossbar switches to the distributing frame - TRUNKS.

3.22 Test set up of equipment arranged as shown in Figure 4. At "END B", plug the test cord (ITE-9223) onto the 183-type terminal strip on the cross connect side. Insert the other end of the test cord (ITE-9223) into the con-

nectors designated L, R2, L3, R4 on ITE-5423. Interconnect the 200 circuit encoder (ITE-5423) to the analyzer (ITE-5421) in accordance with the methods outlined in Handbook 9, Section 910. Test procedure consists of scanning the crossbar switch terminals of each vertical of each switch at the equipment frame. Readout for the Distributing Frame Termination will be from 000 to 199. Typical readouts using cord ITE-9223 are shown in Figure 4.1.

3.3 Testing Terminal Strip Multiple Cables Between Equipment Frames

3.31 Test set-up of equipment to be arranged as shown in Figure 5. Test cords are arranged to plug onto terminal strips from the front of the bays being tested. If a cord must be plugged onto the rear of a terminal strip due to operating conditions, the reversal program plug is to be used on the ITE-5421 Test Set to provide the correct readout information.

3.32 The procedure consists of scanning the terminals of two terminal strips per test scan. Where the multiple under test uses more than two terminal strips, a second test scan will be required. For the second scan, the test cord "End B" is moved to the second set of multiple terminal strips. The test cord is plugged into the L1 and R2 connectors on ITE-5423 Test Set. Readouts will be from 000 to 059 with punching assignments shown in Figure 5.1 and 5.2. When testing multiple cabling between a new frame and working frame, the test set is to be used as indicated in G.I.C.-1.01 or Handbook 9, Section 910 for testing active circuits and standard procedures for working equipment shall be observed.

3.4 Miscellaneous Testing

3.41 Various combinations of test cords other than those specified in Paragraph 3.2, and 3.3 are possible. For these situations, the test set up will follow the segments of Paragraphs 3.2, and 3.3 which apply to the particular cords. An example might be the testing of tie cables from 183-type terminal strips on one distributing frame to terminal strips on another distributing frame using the ITE-9223 Test Cord for "End B" and the test probe for "End A".

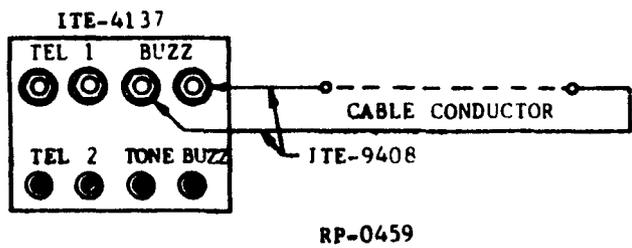


FIG. 1 SHORT LEAD (PAR. 3.132)

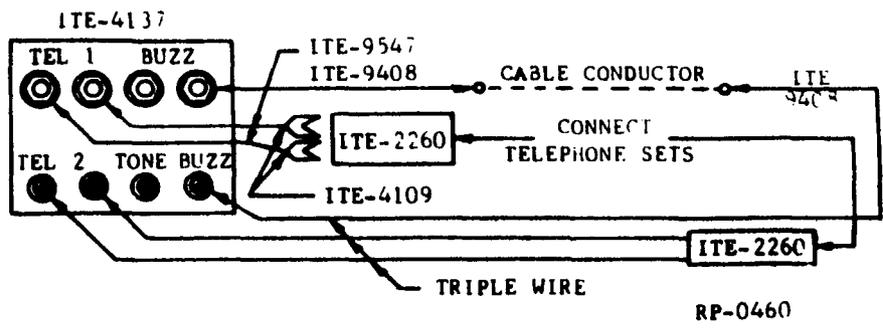
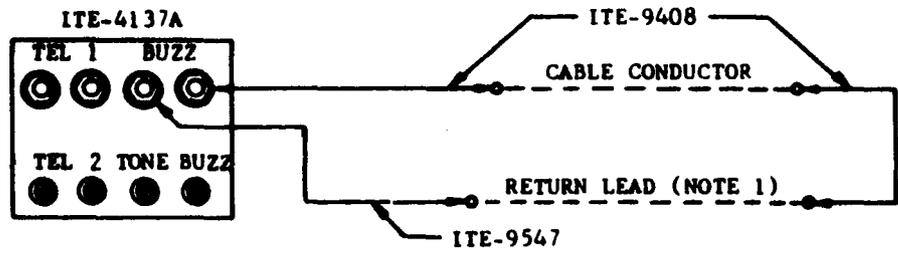
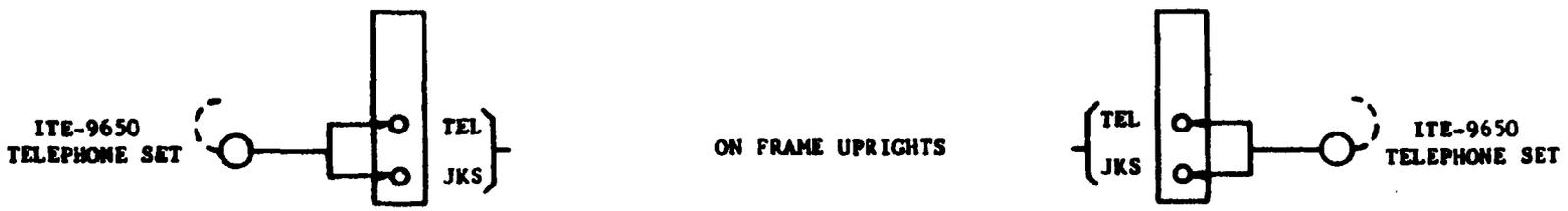


FIG. 2 LONG LEAD WITH TALKING CIRCUIT (PAR. 3.132)



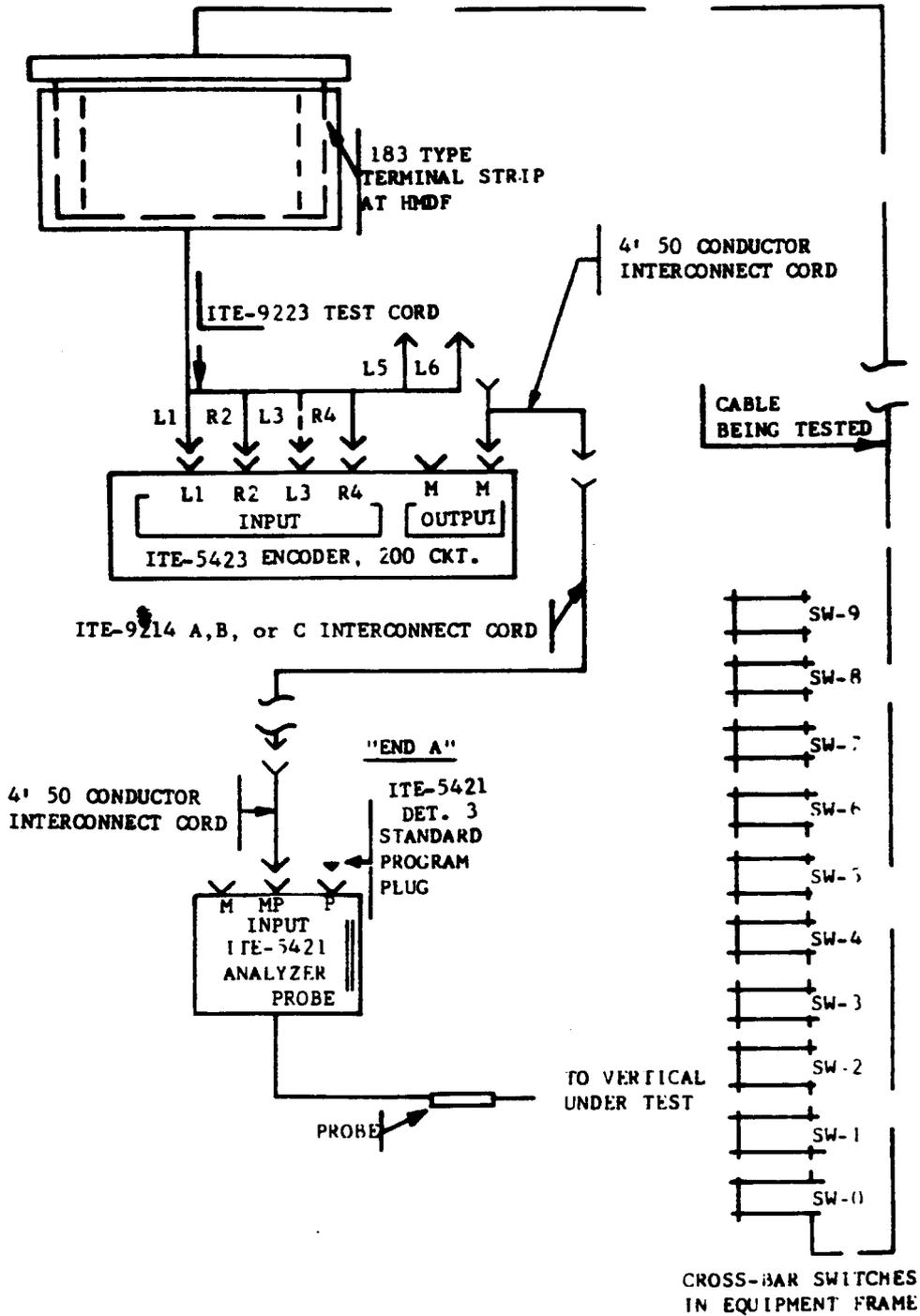
NOTE 1: RETURN LEAD SHOULD BE FREE OF POTENTIAL AND GROUND

FIG. 3 LONG LEAD USING OFFICE TELEPHONE CIRCUIT (PAR. 3.132)



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"END B"

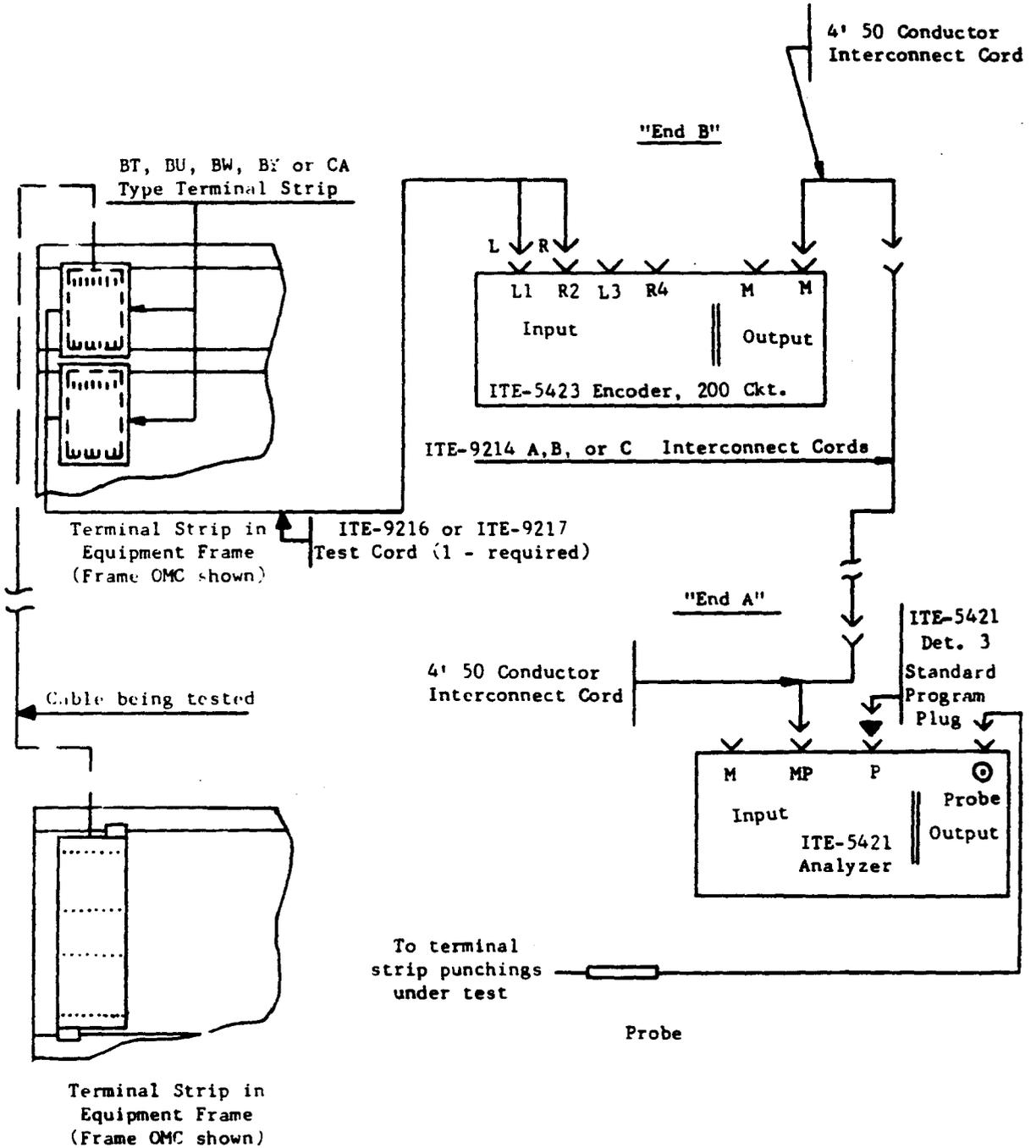


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FIG. 4 EQUIPMENT LAYOUT FOR TESTING CONTINUITY BETWEEN X-BAR SWITCHES AND DISTRIBUTING FRAME TERMINAL STRIPS (PAR. 3.22)

R	150	151	152	153	154	195	196	197	198	199	R
T	050	051	052	053	054	095	096	097	098	099	T
R	100	101	102	103	104	145	146	147	148	149	R
T	000	001	002	003	004	045	046	047	048	049	T

FIG. 4.1 READ OUT DISPLAY ASSOCIATED WITH ITE-9223 (183-TYPE TERMINAL STRIP) (PAR. 3.22)



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FIG. 5 EQUIPMENT LAYOUT FOR TESTING CONTINUITY BETWEEN MULTIPLE TERMINAL STRIPS ON EQUIPMENT FRAMES (PAR. 3.31)

059	049	039	029	019	009
058	048	038	028	018	008
057	047	037	027	017	007
056	046	036	026	016	006
055	045	035	025	015	005

054	044	034	024	014	004
053	043	033	023	013	003
052	042	032	022	012	002
051	041	031	021	011	001
050	040	030	020	010	000

FIG. 5.1 READOUT DISPLAY ASSOCIATED WITH ITE-9216 CORD
(PAR. 3.32)

059	049	039	029	019	009
058	048	038	028	018	008
057	047	037	027	017	007
056	046	036	026	016	006
055	045	035	025	015	005

054	044	034	024	014	004
053	043	033	023	013	003
052	042	032	022	012	002
051	041	031	021	011	001
050	040	030	020	010	000

FIG. 5.2 READOUT DISPLAY ASSOCIATED WITH ITE-9217 CORD
(PAR. 3.32)