CABLE TESTING GENERAL
IDENTIFYING PAIRS IN WET CABLE

NOTES CONCERNING THIS ADDENDUM

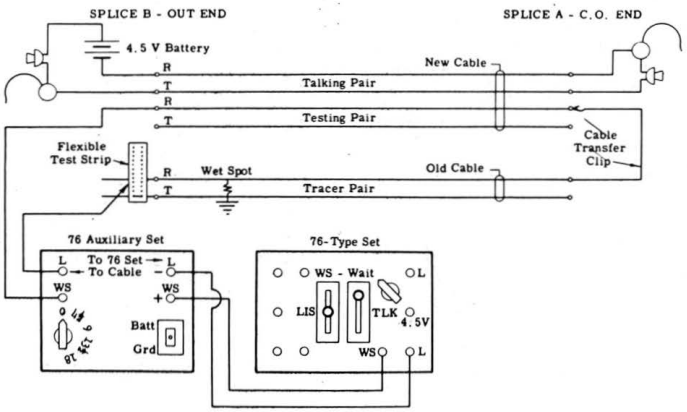
This Addendum provides instructions for the locally built auxiliary set. Basically, the wiring of the local set is the same as that shown in Part 4 of the main section. A difference in Terminal Post designations and the addition of a Voltage Selector Switch in the local sets, makes these additional instructions desirable.

"See Addendum" should be marked in the main section to indicate the following:

Paragraph 4.05 - Added
Paragraph 4.06 - Added

4. TESTING WITH AUXILIARY SET

4.05 The circuit arrangement for identifying pairs through a wet section of cable is shown in the following diagram.



4.06 The method of identifying pairs through a wet section of cable is as follows:

(1) Identify a pair in the new cable as prescribed in G50.213.2, and establish a talking pair between the two splices using a separate 4-1/2 volt battery as shown in the circuit diagram.

(2) Identify a pair in the new cable to be used as a return path for the testing circuit.

(3) Select a tracer pair in the old cable and open it in both splices. It is essential that the same tracer pair be selected at both splices.

(4) At Splice A, connect the ring side of the testing pair in the new cable to the ring side of the tracer pair in the old cable.

(5) At Splice B, connect the WS post of the 76 set to the +WS post of the Auxiliary set: Connect the lower L post of the 76 set to the -L post of the Auxiliary set: Connect the WS post of the Auxiliary set to the ring of the testing pair in the new cable: Connect the L post of the Auxiliary set to the ring of the tracer pair in the old cable.

(6) Set the keys of the 76 set in the LIS and WS-WAIT positions: Set the rheostat in the zero position: Turn the voltage selector switch of the Auxiliary set clockwise until the buzzer in the 76 set operates.

(7) Turn the rheostat of the 76 set clockwise until the buzzer ceases to operate. If at the extreme position the buzzer is still operating, throw the WS-WAIT key to TLK position and after a two second pause return the key to the WS-WAIT position which should stop the operation of the buzzer.

(8) Turn the rheostat of the 76 set counter clockwise carefully until the buzzer just operates; then continue turning 1/2 scale division beyond this point. With this setting the buzzer will operate only when the test leads are connected to both ends of a conductor of the same resistance in the old cable.

(9) At Splice A, select a pair in the group agreed upon, open it, and place the test clip from the new cable on the tip side of the pair.

(10) At Splice B, remove the test cord from the tracer pair in the old cable and use the cord to run the flexible test strips. When the buzzer operates stay on the conductor, and throw the Bat-Gnd key on the Auxiliary test set from one position to the other. If the buzzer operates when the key is in either position it indicates the proper conductor has been selected. The ring side of the pair is checked in the same manner and then both splicers will splice this pair to a pair in the new cable which has been previously identified.

NOTE: It is very important that, if the buzzer fails to operate on both sides of a conductor, that the splicer leave the key in the position where the buzzer failed to operate and continue to run the strip until a conductor is found on which the buzzer will operate with the key in both positions.