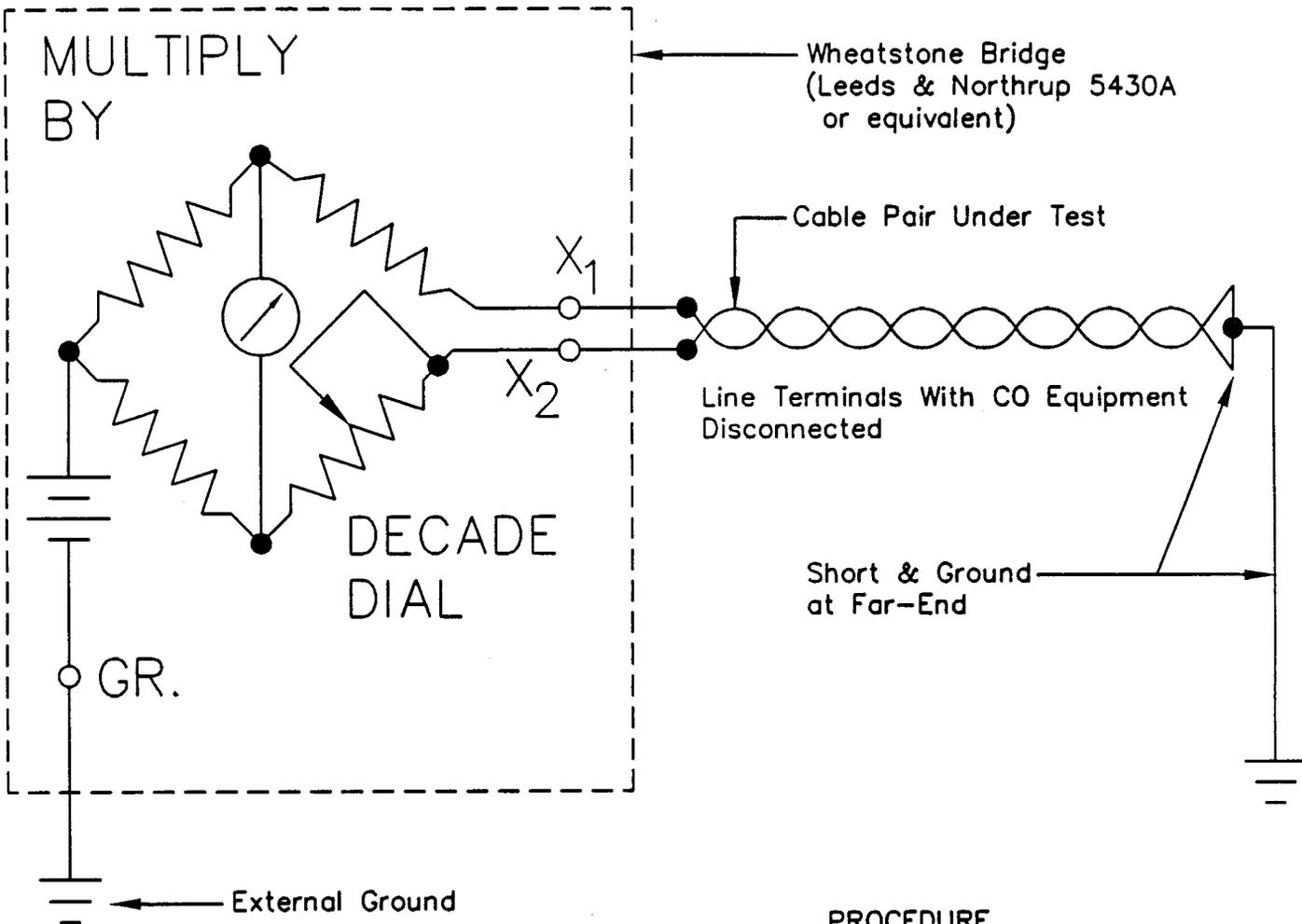


FIGURE 5

DC LOOP RESISTANCE UNBALANCE MEASUREMENT



SETTINGS ON TEST SET

1. Connect Terminals X_1 & X_2 as shown.
2. Set "RES.-VAR-MUR" Key to "VAR".
3. "MULTIPLY BY" Switch to 1/1.
4. Set "RVM-GA-HIL" Switch to "RVM".
5. Set "INT-BA-EXT" Switch to "INT".

PROCEDURE

1. Null galvanometer by operating "MULTIPLY BY" and "DECADE" dials of bridge. Use lowest sensitivity range.
2. If continuously varying 1, 10, or 100 ohm switches from 1 to 999 ohms produces a deflection consistently to the left on the galvanometer, reverse the conductors of the cable pair under test to the X_1 & X_2 terminals of the bridge.
3. Vary 1, 10, or 100 ohm switches again until deflection approaches zero. Read "DECADE" dial for Resistance Unbalance in ohms.