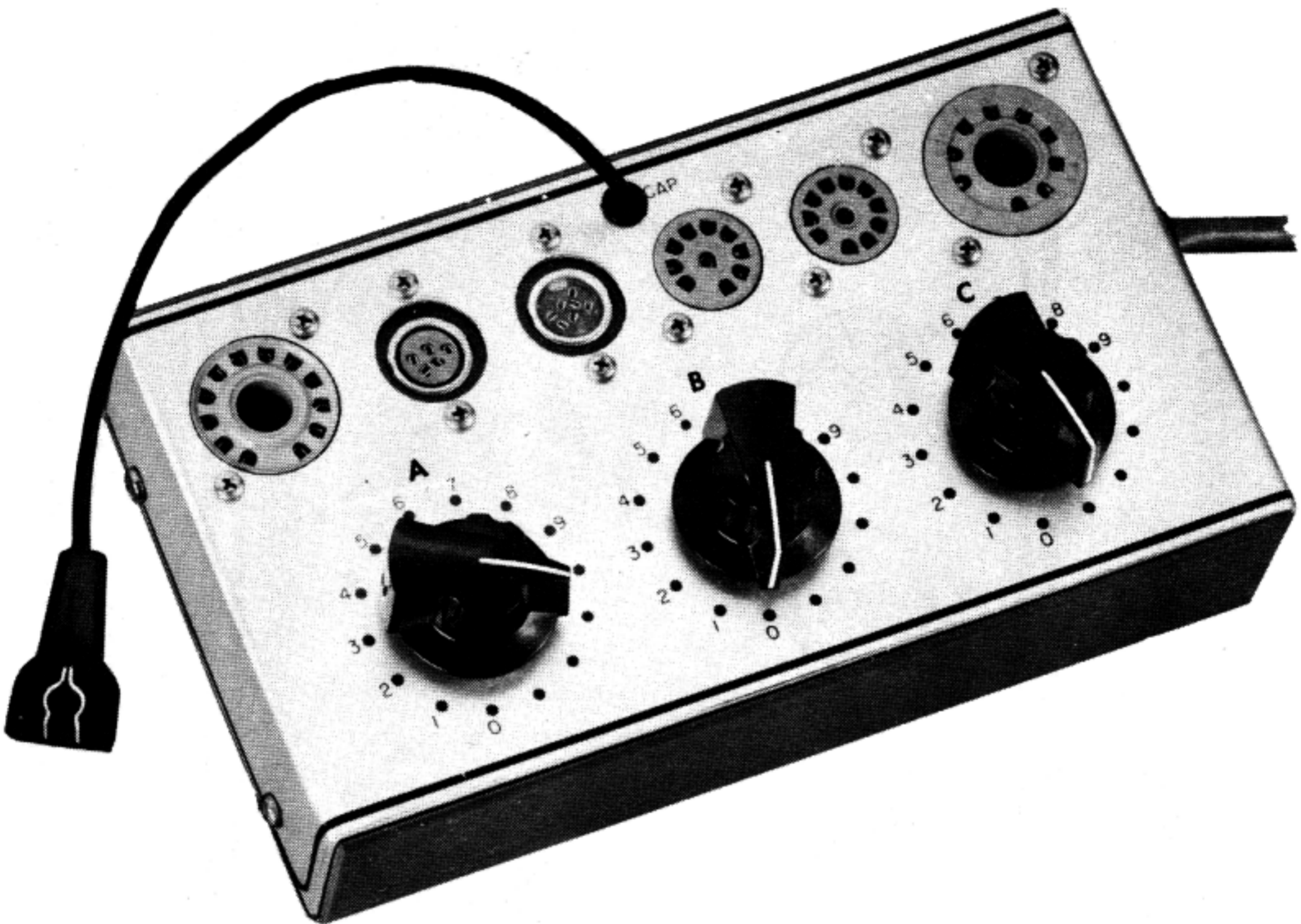


HICKOK

INSTRUCTION MANUAL

for



MODEL CA-5

UNIVERSAL ADAPTER

HICKOK ELECTRICAL INSTRUMENT CO.

10514 DUPONT AVENUE • CLEVELAND, OHIO 44108

PHONE — 541-8060

CABLE — HICKOK, CLEVELAND

TWX — CV 662

2490-600

WESTERN UNION — KJ

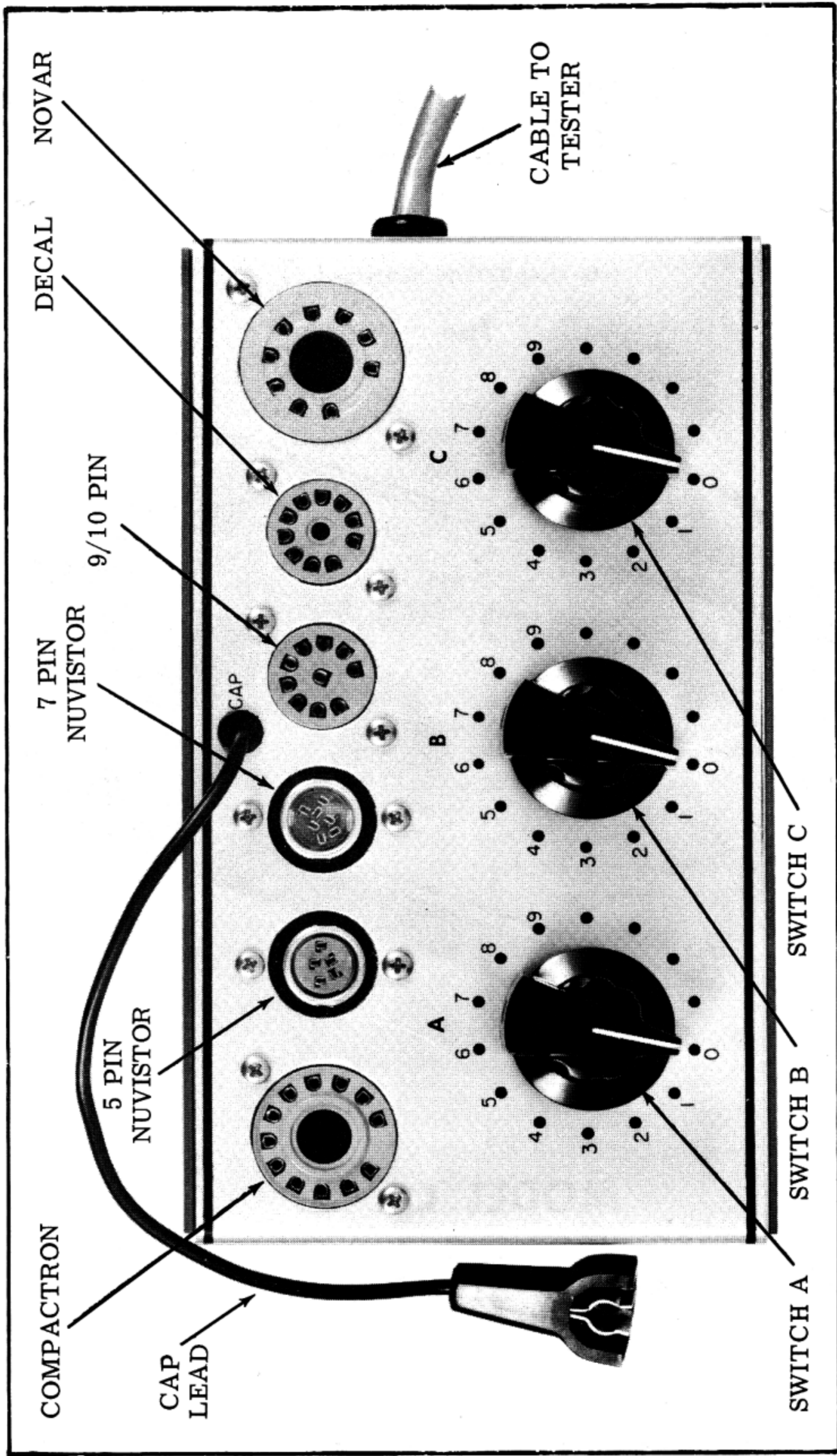


Figure 1. Top Panel Controls, Tube Sockets, Cap Lead, and Cable (Plug not shown)

MODEL CA-5

UNIVERSAL ADAPTER

The Hickok Model CA-5 Universal Adapter is used in conjunction with Hickok Cardmatic Tube Testers and with Hickok Roll Chart Tube Testers to accommodate the bases of Compactron, Novar, Nuvistor, Decal and 10-pin header tubes for testing purposes. Because of its light weight and small size the Universal Adapter may be conveniently placed directly on the top of any Hickok tube tester. The top panel controls, tube sockets and connecting cables are as follows: (see figure 1)

- a. Three rotary switches used to select and connect pins 10, 11 and 12 of the new test sockets into the socket wiring and circuits of the particular tube tester being used.
- b. Test sockets for Compactron, 5-pin Nuvistor, 7-pin Nuvistor, 9/10-pin, Decal and Novar tubes.
- c. A top cap lead for use with tubes requiring a top cap connection.
- d. A test plug and cable connected to the adapter for insertion into the Noval test socket of the particular tester being used. This plug has a top cap connection. A portion of the cable but not the plug is shown in figure 1.

OPERATING INSTRUCTIONS

for use with

CARDMATIC TUBE TESTERS

To test tubes with the Universal Adapter and a Cardmatic Tube Tester, proceed as follows:

- a. Connect the adapter to the Cardmatic Tube Tester by inserting the test plug into the Noval socket of the Cardmatic.
- b. Connect the cap lead of the Cardmatic to the cap connector of the test plug. (This is not necessary if the tubes to be tested do not have top caps.)
- c. Set the switches "A", "B" and "C" on the adapter to correspond with the 3-digit number located on the data test card. Example: if number 423 is on the data test card, set switch "A" on position 4, switch "B" on position 2, switch "C" on position 3.
- d. Place the tube to be tested into the proper socket of the adapter.
- e. If the tube has a cap connection, connect the cap lead of the adapter to the cap of the tube. In this case, determine that the cap lead of the Cardmatic is secured on the cap connector of the test plug.
- f. Insert the test card into the card switch and test the tube in the usual manner. See the Operating Instructions for the particular Cardmatic Tube Tester being used.

NOTE

If more than one card is required for testing the tube, re-set the switches "A", "B", and "C" to the three-digit number located on EACH test card. Each card has its own number.

OPERATING INSTRUCTIONS

for use with

ROLL CHART TUBE TESTERS

To test tubes with the CA-5 Universal Adapter and a Roll Chart Tube Tester, proceed as follows:

- a. Connect the adapter to the Roll Chart Tube Tester by inserting the test plug into the Noval socket of the Roll Chart Tube Tester.
- b. Set the switches "A", "B" and "C" on the adapter to correspond with the 3-digit number in the column headed "ADAPTER", for the tube to be tested as listed in the Operating Data book. Example: 234 is shown for 6AL11; therefore, set switch "A" on position 2, switch "B" on position 3 and switch "C" on position 4.
- c. Proceed to set up the switches and controls of the Roll Chart Tube Tester as shown in the Operating Data book.
- d. Place the tube to be tested into the proper socket of the adapter.
- e. If the tube to be tested has a top cap, place the top cap connector of the adapter to the cap of the tube and connect the top cap connector of the Roll Chart Tube Tester on the cap connector of the test plug of the adapter cable. The proper cap connector (if any) is shown in the "NOTATIONS" column of the Operating Data book. Example: if the notation column shows "CAP = G" (grid), connect the "G" or "GRID" of the tester with the top cap connector of the Roll Chart Tube Tester to the cap connector of the test plug of the adapter cable. Note: Proper top cap connections to Models 6000 and 6005 Tube Testers are assured by setting the appropriate element selectors to position "X". Example: if "CAP = P" appears in the "NOTATIONS" column, set the plate selector to "X" regardless of the setting specified in the "SELECTORS" column.
- f. Turn the Roll Chart Tube Tester on and proceed to test tube in the usual manner as shown in the manual accompanying the particular tester being used.

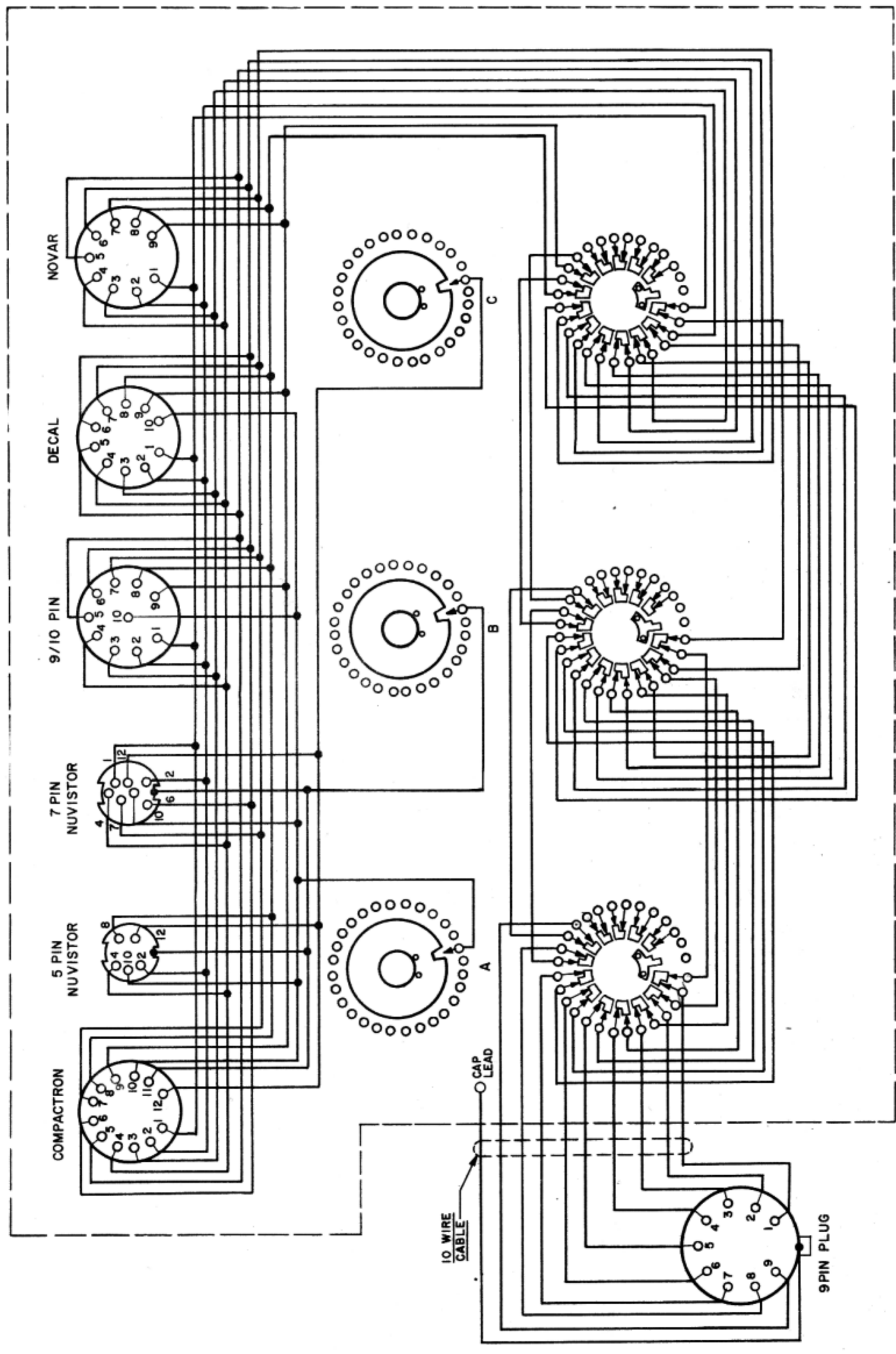


Figure 2. Schematic Wiring Diagram of Universal Adapter, Model CA-5

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