

## 901A AND 901B DATA TEST SETS IDENTIFICATION AND OPERATION

### 1. GENERAL

1.01 This section is reissued to:

- Add Table A and Table B
- Make Minor Changes to Fig. 5

1.02 The 901-type data test set is a portable test set used to make installation and trouble tests on data sets. It is required to extend data set interface pins to test set terminals and connectors for connection to external test apparatus as required.

*Note:* To assure accurate test results all test apparatus must be securely connected.

1.03 Use of the 901A data test set (rated manufacture discontinued) is limited to tests of certain early model data sets. The 901A set

(Fig. 1) may be returned to the distributing house for necessary modifications to a 901B set. The Interface Test Adapter can be obtained separately if desired by ordering a J79901B List 3 Data Test Set.

1.04 The 901B data test set (Fig. 2) can be used anywhere that a 901A is specified.

1.05 Selector switch test positions are designated by numbers on the 901B rather than by the data set code numbers shown on the 901A. This change simplifies test procedures and provides flexibility in adapting the test set to future data sets. The relation between the selector switch test positions on the 901A and 901B data set is contained in Table A.

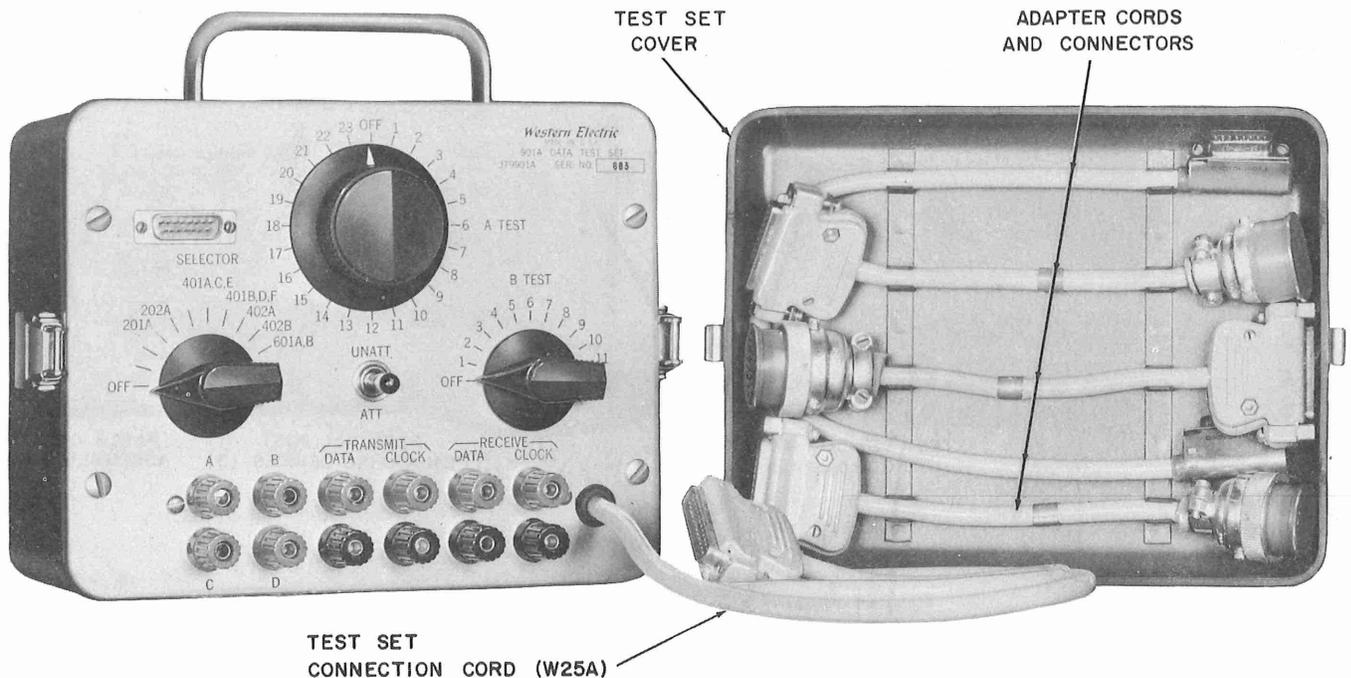


Fig. 1 — 901A Data Test Set

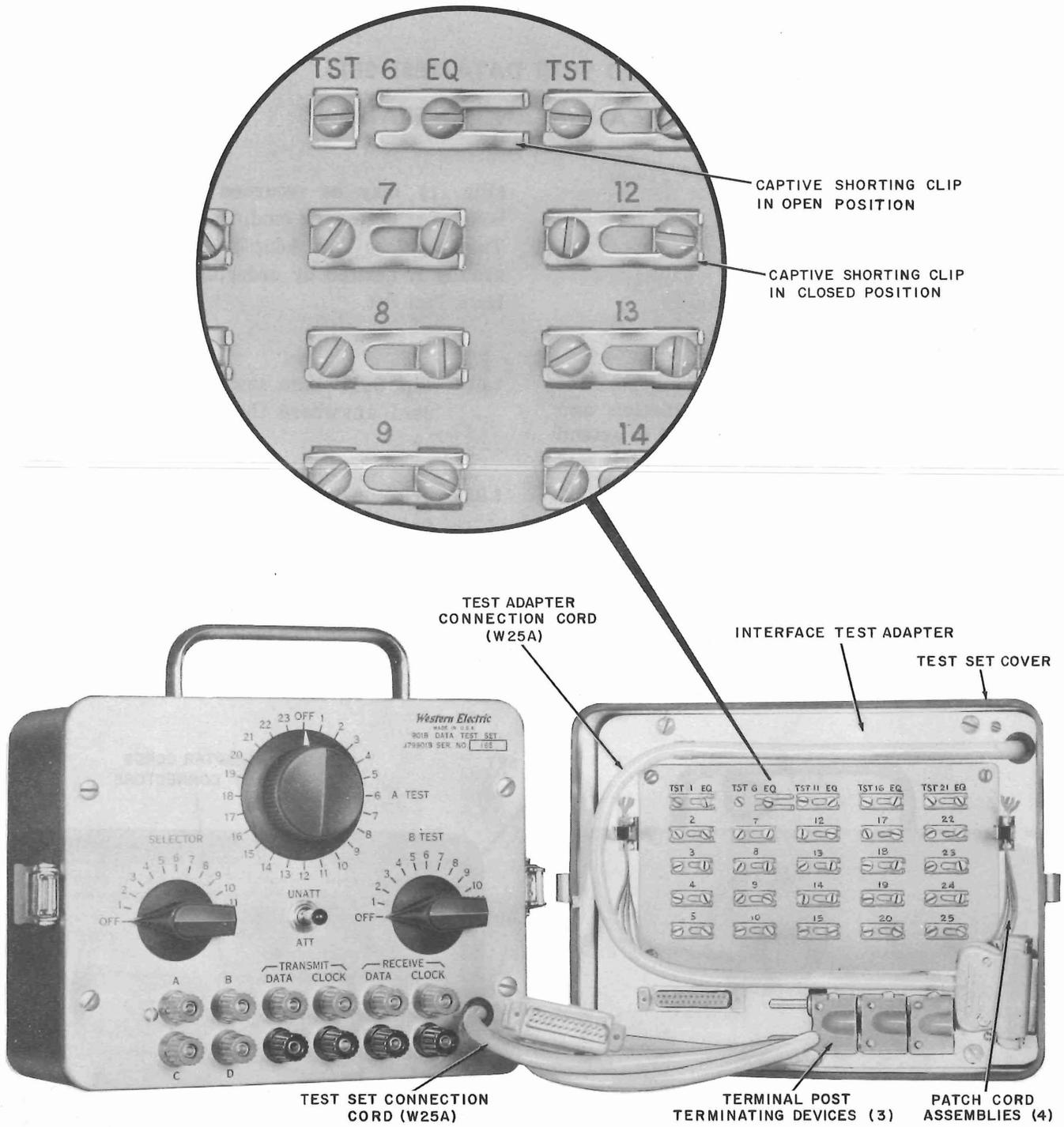


Fig. 2 — 901B Data Test Set

**TABLE A**  
**SELECTOR SWITCH TEST POSITIONS**

901A DATA TEST SET	901B DATA TEST SET
OFF	OFF
	1
	2
201A	3
202A	4
	5
401A, C, E	6
401B, D, F*	7*
402A	8
402B	9
601A, B	10
	11

\*Set SELECTOR switch in this position for 401J data set.

## 2. IDENTIFICATION

**2.01** The description and primary functions of the data test set switches are as follows:

- **SELECTOR** — A 12-position rotary switch that prepares the test set for the specific data set to be tested.
- **A TEST** — A 24-position rotary switch used to connect data set interface leads to appropriate terminals on the test set. Connects certain interface leads internally as required.
- **B TEST** — A 12-position rotary switch used to supplement the functions of the A TEST switch.
- **UNATT-ATT** — A 2-position switch used to simulate unattended or attended operation of data sets.

**2.02** Four terminal posts, designated A, B, C, and D, are provided for connection to a 1011-type handset, volt-ohmmeter, or similar test apparatus.

**2.03** The TRANSMIT-DATA and CLOCK terminal posts are for connection to the 903-type data test sets.

**2.04** The RECEIVE-DATA and CLOCK terminal posts are for connection to the 902-type data test sets.

**2.05** An audio amplifier, furnished internally in the 901-type set, amplifies certain data set signals to a level audible in a 1011-type handset. The amplified signal is furnished to terminals C and D.

*Note:* Power for the amplifier is obtained from the data set under test.

**2.06** The Interface Test Adapter (Fig. 2) is furnished as part of the 901B data test set cover. The data test set and cover can be ordered separately or combined as one unit.

**2.07** Use of the Interface Test Adapter provides access to all data set interface pins. This allow *In-Service*, (business machine connected and data set on line — Fig. 3) or *Not-In-Service* (business machine not connected and data set on or off line — Fig. 5, block diagram) type tests.

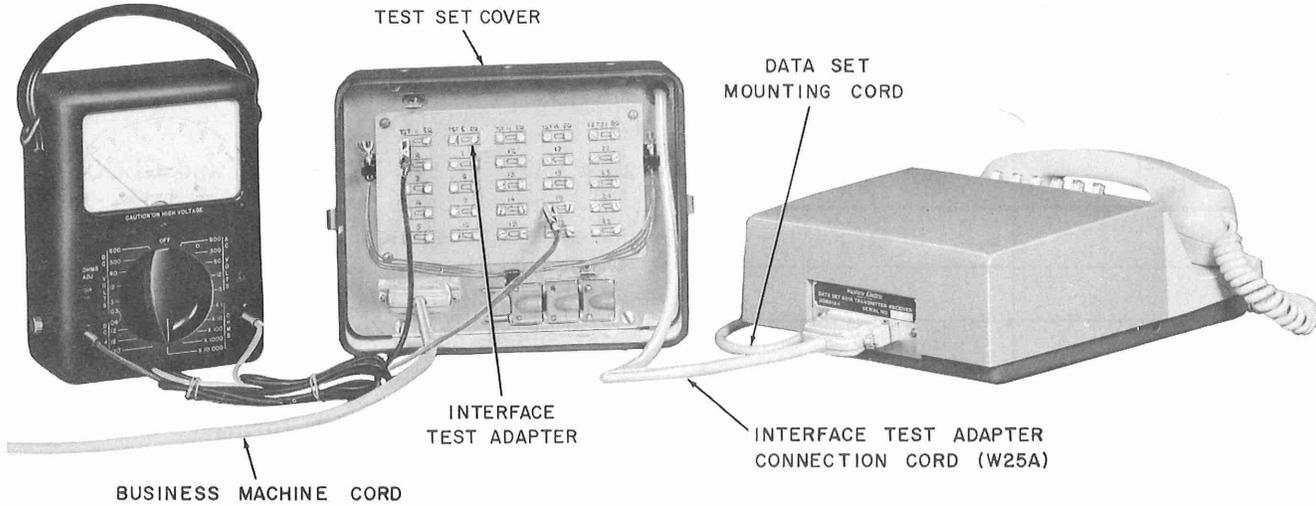
**2.08** A typical test arrangement without the Interface Test Adapter is shown in Fig. 4.

**2.09** Connection to the data set interface connector is made by using the W25A cord assemblies furnished with the test set.

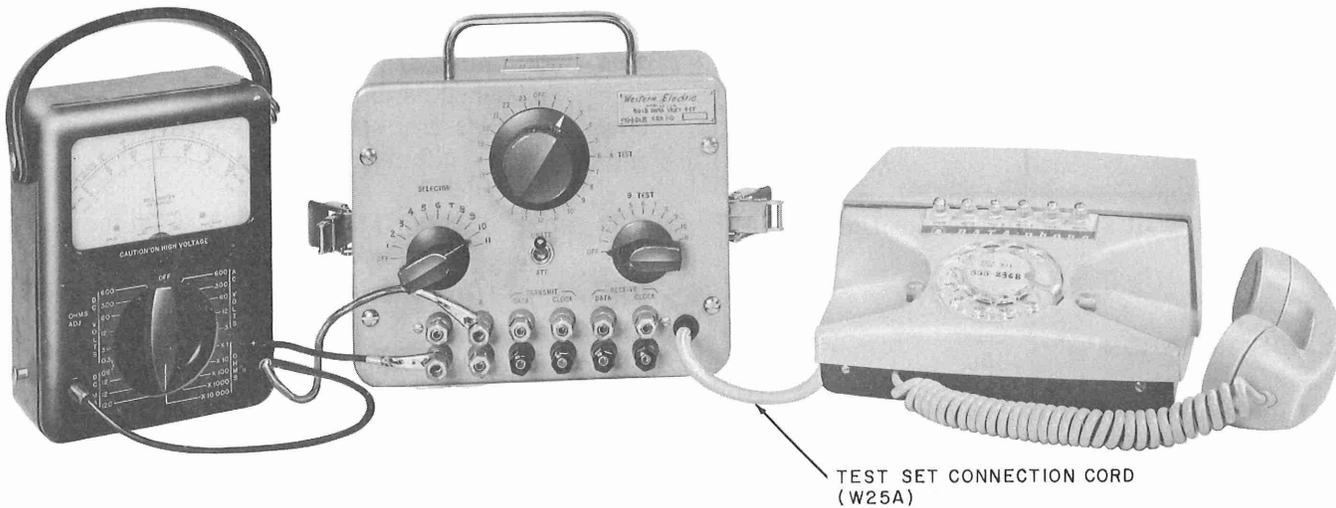
- Fig. 3 shows Interface Test Adapter connection cord.

- Fig. 4 shows test set connection cord.

*Note:* Adapter cords and connectors (Fig. 1) must be used on some early data sets that do not have a standard type interface connector. These data sets and the adapter cords required are listed in Table B.



**Fig. 3 — Typical Test Arrangement with Data Set In-Service (Test using Interface Test Adapter Only)**



**Fig. 4 — Typical Test Arrangement**

**TABLE B  
ADAPTER CORDS**

DATA SET	ADAPTER CORD
201A (X10)	M26A Cord Assembly
401B	M26D Cord Assembly
401A	M26F Cord Assembly

**2.10** Terminals marked TST on the Interface Test Adapter are wired to the 25-pin connector on the adapter. The EQ terminals are

wired through the interface adapter cord (W25A) to the pins of the plug.

**3. OPERATION**

**3.01** Standard installation and test practices for each data set will specify switch settings, connections, operating instructions, and the types of associated data test sets required.

*Note:* Recheck installation and test instructions for proper terminal post before making test connection.

**3.02** Three terminal post terminating devices (Fig. 2) provide a 200-ohm short for certain data set tests.

**3.03** Use of the captive shorting clips (Fig. 2) permits isolating or bridging interface leads as required.

**3.04** Four patch cord assemblies (Fig. 2) are furnished for cross connecting the required interface leads.

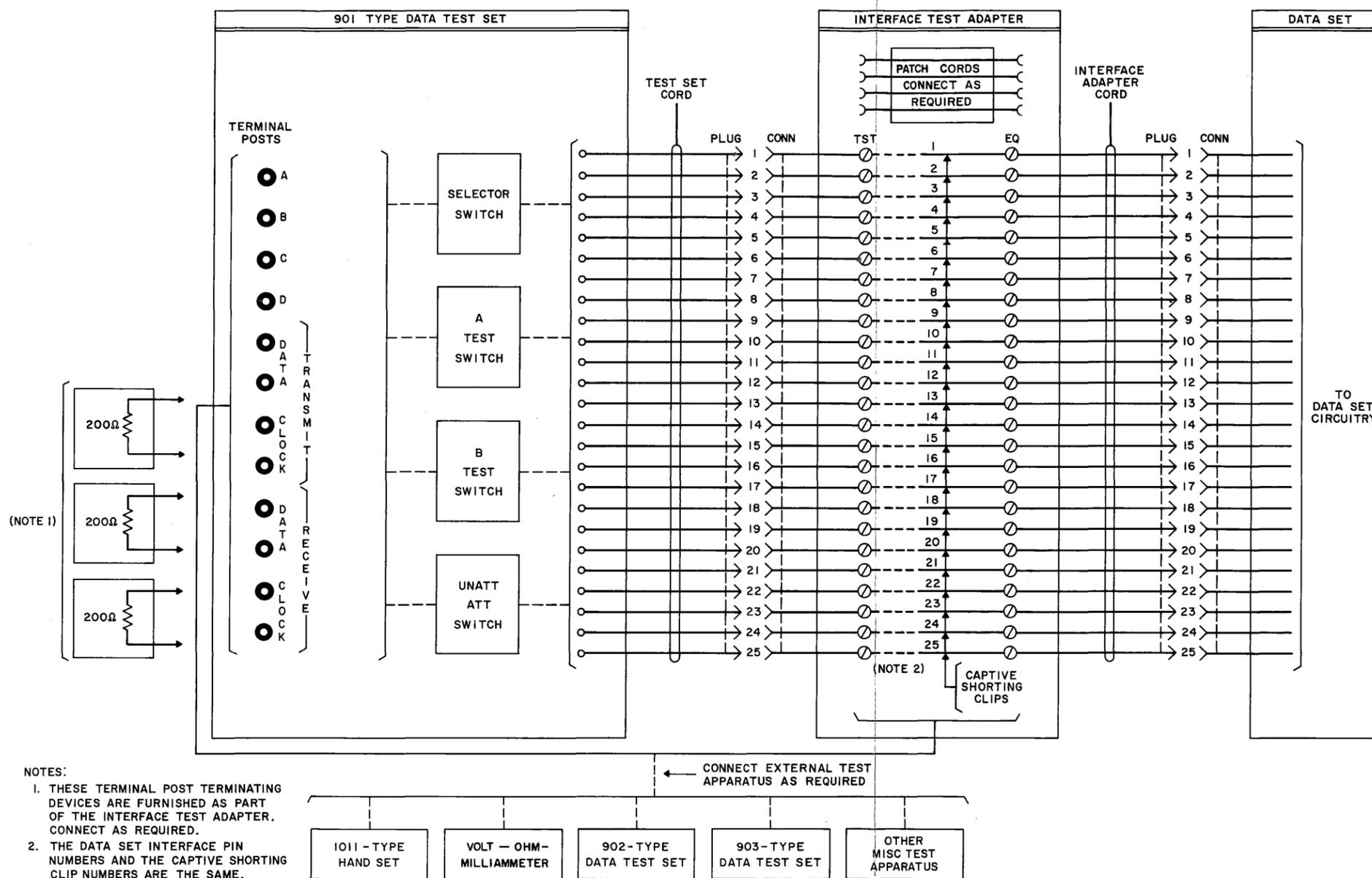


Fig. 5 — Block Diagram, Typical Test Arrangement with Data Set Not In-Service (Using 901B Set and Interface Test Adapter)