

## DATA SET 602D-TYPE TRANSMITTER-RECEIVER INSTALLATION AND CONNECTIONS

### 1. GENERAL

1.01 This section provides information necessary for the installation of Data Set 602D-type. Also included in this section is information concerning the various connections of the data set.

1.02 Figure 1 is a block diagram of a system employing the 602D.

1.03 Data Set 602D-type is designed for use on the switched telephone network or in 2-wire private line service.

1.04 The Data Set 602D-type is a complete transceiver which will transmit facsimile or similar analog signals.

### 2. INSTALLATION

2.01 The data set must be located within the range of the interface connector cord which is supplied by the customer.

2.02 To avoid interference with data signals during data transmission, the following restrictions apply to the data line where practicable:

- Use only on individual lines.
- Do not connect extension telephones on the data line.

2.03 To minimize inductive interference with data signals on the telephone (data) line, the line should not be carried in the same run as the cable between the data set and the customer's business machine, or as the lines connected to dc teletypewriter services. If this requirement cannot be met, it will be necessary to run the telephone (data) line in shielded station wire between the data set and the cable distribution terminal or building entrance.

2.04 The customer must furnish an ac outlet which is not under the control of a switch. To avoid the possibility of data errors due to a potential difference between the data set ground and the business machine ground, the outlet for the data set's external power supply should be served from the same ac distribution panel as the outlet of the business machine. If they are not served from the same panel, a test using the 6A Impulse Counter should be made to detect excessive noise. This test is included in the section entitled Data Set 602D-Type Transmitter-Receiver, Test Procedures (596-020-500). If the ground test requirement is not met, the data set and business machine grounds must be bonded together.



*The method of providing this bond should be in accordance with local instructions.*

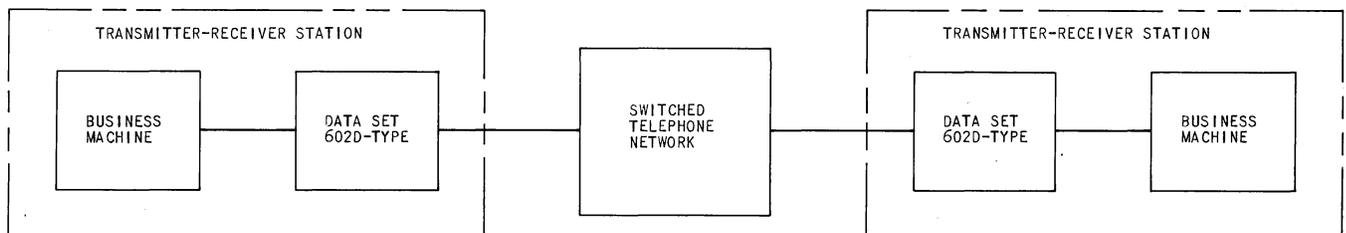


Fig. 1—Data Set 602D-Type, System Block Diagram

**SECTION 596-020-200**

**2.05** Verify with the local test center that loop facilities have been tested and meet requirements specified in the section entitled Data Systems—DATA-PHONE® Service On Direct Distance Dialing Network—Test Requirements for Subscriber, Foreign Exchange, and Remote Exchange Lines (314-205-501).

**2.06** Wiring options should be specified on the service order. The data set will be wired accordingly.

**3. CONNECTIONS**

**3.01** See the section entitled Data Set 602D-Type Transmitter-Receiver, Maintenance (596-020-300) for the removal and replacement instructions for the Data Set 602D-type cover.

**3.02** The options for the transceiver are made to provide the type of service necessary to satisfy the customer's requirements. The option connections are normally made prior to the installation of the data set as specified on the service order, but can be changed at any time if necessary to meet changes in the customer's service or operations.



*To eliminate possible damage to electronic components in the data set, do not make power connections until all other connections have been completed.*

**3.03** The various options available with Data Set 602D-type as well as terminal strapping information necessary for the connections are listed in Table A. Figure 2 is an inside view of the data set showing the physical location of the circuit packs containing the option strapping terminals. Make the connections necessary to complete the requirements of the service order.

**3.04** A KS-16886, L2 transformer is furnished with each Data Set 602D-type. It is a wall mounted unit separate from the data set and must be surface wired to the connecting block to which the D4BJ-61 mounting cord is attached (Fig. 2 and 3).

**3.05** Connections for the Data Set 602D-type to the telephone line are shown in Fig. 3.

**TABLE A**  
**OPTIONS — DATA SET 602D-TYPE**

FEATURE OR OPTION		WIRING OPTION	STRAP TERM. ON BE33	STRAP TERM. ON BE34	STRAP TERM ON 930A EQUALIZER	REQUIRED
900 Ω Line Impedance		X*		B-C only		One per Station
600 Ω Line Impedance		W		A-B only		
Equalizer Required for Switched Network Operation		Y			A-B only	One per Station
Equalizer Not Required for Lines Already Equalized		Z*			C-D only	
Outputs In dBm	-4	T	A to B to C			One per Station
	-8	S*	A-B, C-D			
	-12	R	B to C to D			

\* Factory Furnished

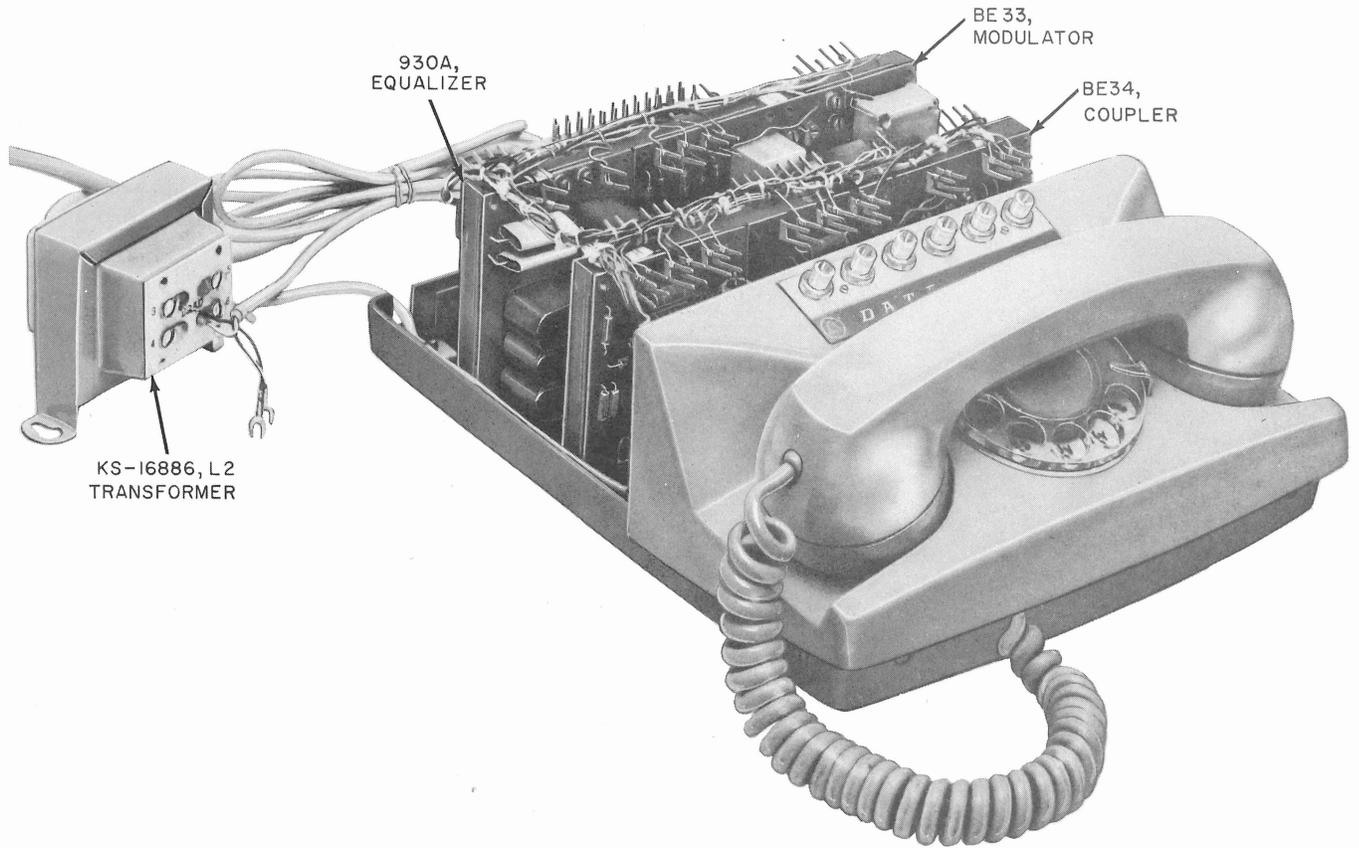


Fig. 2—Data Set 602D-Type, Inside View

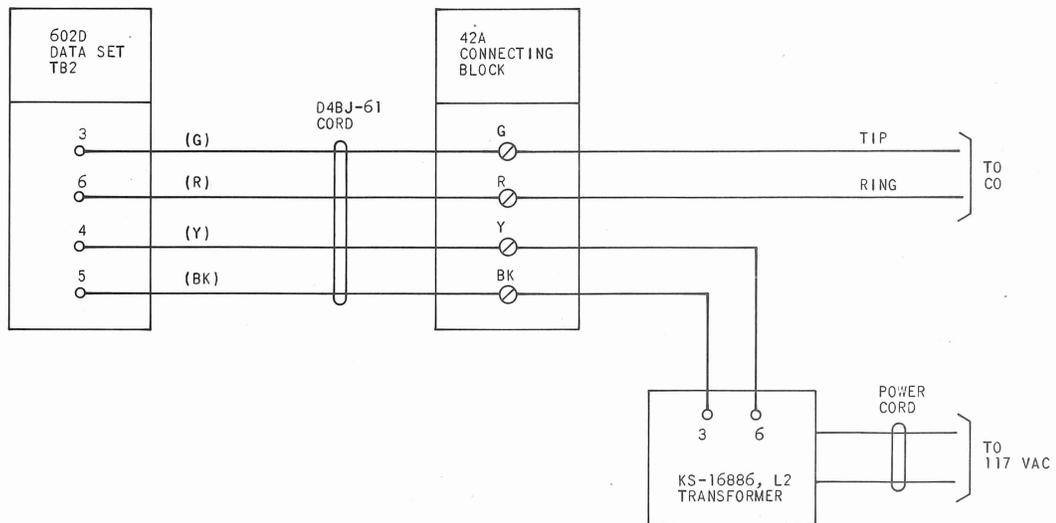


Fig. 3—Data Set 602D-Type, Line Connections