

DATA SET 602D-TYPE REFERENCE GUIDE



Data Set 602D-Type

1. GENERAL

1.01 Data Set 602D-type is a half-duplex voiceband analog transceiver. It is used for transmitting and receiving signals generated by customer-provided facsimile machines, slow-scan television, or similar signals over the switched telephone network or 2-wire private line facilities.

1.02 Data Sets 602D-L1 and 602D-L1A are similar, except for having a rotary dial and a

TOUCH-TONE® dial, respectively. The integral telephone set is used to establish data calls and also may be used as a conventional telephone.

1.03 These sets are similar to and compatible with the 602C-type, except that the 602D-type does not include a sync channel, automatic answering option, or the reverse-channel feature. A forward control signaling channel is provided in the 602D-type sets but not in the 602C-type sets.

SECTION 590-006-106

1.04 Data Set 602D-type provides a baseband bandwidth of approximately 0 to 1000 Hz. This corresponds to facsimile transmission with resolution to 100 lines per inch at 180 lines per minute for a page size of 8-1/2 by 11 inches.

1.05 Two test keys are provided to permit the customer to enable test circuits within the data set, allowing remote testing of the set from a data test center.

2. PHYSICAL AND ELECTRICAL CHARACTERISTICS

2.01 Data Set 602D-type consists of a data transceiver and a telephone handset in a 2-tone gray plastic housing. The set measures 11-1/2 inches long, 9 inches wide, and 4-1/2 inches high; it weighs about 7-1/2 pounds.

2.02 The external power transformer supplied with the data set must be connected to a customer-supplied source of 117-volt 60-Hz power.

2.03 Connections to the telephone line and to the power transformer are made through a D4BJ-61 mounting cord, which is furnished with the data set. Connections from the business machine to the data set are made through a 25-conductor cord and plug provided by the customer. Interface connections are in accordance with Electronic Industries Association (EIA) Standard RS-357.

2.04 Customer control of the data set is by means of five of the six pushbutton keys, as follows:

- TST 1—Test 1
- TST 2—Test 2
- TRMT—Transmit
- RCV—Receive
- TALK—Talk
- (Blank—Not to be used)

3. OPERATION

Originating Data Call

3.01 To originate a data call, depress the TALK pushbutton and establish connection with the distant station in the normal telephone manner.

3.02 After the distant station has answered and verbal agreement has been reached to transmit data, depress the TRMT pushbutton if data is to be transmitted or the RCV pushbutton if data is to be received.

Answering Data Call

3.03 When ringing is heard, depress TALK pushbutton and answer in the normal telephone manner.

3.04 After verbal agreement has been reached to transmit data, depress the RCV pushbutton if data is to be received or TRMT pushbutton if data is to be transmitted.



In the talk, data, or test mode, the handset must remain off-hook.

4. SERVICE ORDER INFORMATION

4.01 Refer to Section 590-000-101 entitled Reference Guide—Description of Data Set Features and Options for a more detailed explanation of features and options common to most data sets. Service offerings are outlined in Table A. There are no customer options.

4.02 Telco options are listed in Table B. The ITEM column provides a reference to descriptive information contained in Section 590-000-101.

5. SUBSTITUTE DATA SETS

5.01 Data sets listed in Table C may be used to supply the services previously described in this section. Telco options described herein do not necessarily apply to the substituted data sets.

6. REFERENCES

6.01 The following references provide additional information on Data Set 602D-type and associated equipment:

- (a) BSPs 596-020-100, -180, -200, -300, -500
- (b) Data Set 602D Interface Specification (Technical Reference Manual)
- (c) CD- and SD-1D158-01.

TABLE A
SERVICE OFFERINGS

MODEL	FEATURE	USOC
602D-L1	Equipped with rotary dial	DEJ
602D-L1A	Equipped with TOUCH-TONE dial	DEK

TABLE B
TELCO ENGINEERING OPTIONS

OPTION	DESIGNATION	ITEM
600Ω Impedance	W	C1
900Ω Impedance	X*	
Equalizer required for switched network operation	Y**	C7
Equalizer not required for switched network operation	Z*	
Output power level		C2
-12 dBm	R	
-8 dBm	S*	
-4 dBm	T	

* Factory Supplied.

** Equalizer may not be required with certain customer equipment.

TABLE C
SUBSTITUTE DATA SETS

USOC	SUBSTITUTE	REMARKS
DEJ	602A1	Notes 1, 2, and 5
	602C1	Notes 1, 3, and 5
	602C2	Notes 1, 3, 4, and 5
DEK	602C3	Notes 1, 3, and 5
	602C4	Notes 1, 3, 4, and 5

Note 1: Sync circuit and auto answer not used.

Note 2: Pre- and post-emphasis are permanently wired and may affect service slightly.

Note 3: Pre- and post-emphasis not used.

Note 4: Reverse-channel not used.

Note 5: The substitute data sets are substantially more expensive than the 602D-type.