

DATA SET 602D TYPE  
TRANSMITTER/RECEIVER  
SUMMARIZING SPECIFICATION  
DATA SYSTEMS  
STATION

**1. GENERAL**

**Scope**

**1.01** This specification, together with the supplementary information listed herein, summarizes, for ordering purposes, the product design requirements for the framework, assembly, and circuits covering the data set 602D type primarily for use in DATA-PHONE® data service.

**Capacity**

**1.02** Data set 602D type is intended as a simplified version of the 602C data set. It is a data transceiver designed for half-duplex transmission of analog information such as facsimile or slow-scan television on the switched telephone network. The set provides a baseband bandwidth from 0 to approximately 1000 Hz, permitting a resolution of up to approximately 100 lines per inch for a format of 8.5 by 11 inches, with a scanning rate of 3 lines per second.

**1.03** The data set is integrated with a telephone which may be used for normal voice communication or in establishing data calls.

**Description**

**1.04** Data set 602D type is combined with a telephone in a 2-tone gray plastic housing, commonly referred to as the "medium size integrated housing." It is the same as that used for data sets 202E type, and it is similar to the ED-1D009-30 housing formerly used for data sets.

**1.05** Each set consists of an 11-type apparatus unit, a 589-type function key, a band filter, an equalizer, and six modular type circuit packs.

**1.06** Each circuit pack is a functional unit and is electrically connected into the circuit

through wire wrapped terminals. Installer options are located on the top edge of the circuit packs in the form of screw terminals and straps. These include: 600- or 900-ohm line impedance (W, X), equalizer in or out (Y, Z), and output level adjustment (R, S, T).

**1.07** The interface connector on the data set is the standard 25 pin, KS-19087,L6, that is designed to mate with the customer supplied cinch or cannon DB-19604-432 plug equipped with DB-51226-1 hood.

**1.08** Power is supplied by a KS-16886,L2 transformer that is shipped loose with each set. It must be plugged into a commercial source of power, 105 to 129 volts RMS at a frequency of  $60 \pm 0.1$  Hz, and surface wired to the connecting block that terminates the telephone line cord of the data set, D4BJ-61. The telephone cord is 5 feet 6 inches long.

**1.09** The data set is designed to operate in an environment of 40° to 120° F ambient temperature and 20 to 95 percent humidity.

**1.10** The set measures 11½ by 9 by 4½ inches high and weighs approximately 7½ pounds.

**2. SUPPLEMENTARY INFORMATION**

BSRS480.113—Data Set 602D

X-17461—Manufacturing Testing Requirements—Data Set 602D

X-77360 (Sect. 623-628)—Manufacturing Testing Requirements—Circuit Packs

X-17151—Product Design Requirements—Solderless Wrap Terminal Design

A-157100—Common Features Drawing for PWBs

AA610.012—Printed Wire Board Assemblies

AA610.011—Packaged Electronic Products

## SECTION 596-020-180

590-010-200—General Installation and Connection Information  
596-020-100—Description and Operation  
596-020-200—Installation and Connections  
596-020-300—Maintenance  
596-020-500—Test Procedures  
KS-16886—Transformer  
KS-20391—Integrated Circuit  
Technical Reference—602D Data Set Interface Specification

### 3. DRAWINGS

SD-1D158-01—Data Set 602D—Schematic  
SD-1D060-01, J623, J624, J625, J626, J627, J628—  
Circuit Packs BE32, BE33, BE34, BE35, BE36,  
BE37—Schematic

### 4. PRODUCT

*Data Set 602D Type Transmitter/Receiver*

Bell Telephone Laboratories, Incorporated  
Dept 5315

**List 1**—Assembly, wiring, and common apparatus for one 602D transmitter/receiver that has the capability for modulation, demodulation, testing, and equalization. This includes the housing, a telephone set with rotary dial, a line cord, and a separate power transformer per SD-1D158-01, Fig. 1, option U.

**List 1A**—This is the same as list 1 with the exception that TOUCH-TONE® dialing is provided per SD-1D185-01, Fig. 1, option V.

### TABLE OF AUTHORIZED ORDERABLE CODE NUMBERS

DATA SET	RATING	REPLACED BY
602D-L1	AT&TCo Std	----
602D-L1A	AT&TCo Std	----