

DATA SET 202H TYPE
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 data set 202H type primarily for use in DATA-PHONE® service.

Capacity

1.02 Data sets 202H are to be operated in receive-only applications on DDD and 2-wire private line facilities using nonsynchronous operation at bit speeds of up to 1200 BPS on DDD and up to 1800 BPS on appropriately conditioned private lines. These sets are compatible with existing 202C, D, E, and G data sets when such sets are used in transmit-only operation. A supervisory reverse channel transmitter and an automatic answering circuit are available on a modular basis if desired.

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

Description

1.04 Data set 202H type is combined with a telephone in a 2-tone gray plastic housing commonly referred to as the "large-size integrated housing."

1.05 Each set consists of an 11-type apparatus unit, a 589BB key, filters, networks, relays, and circuit packs as required.

1.06 Each circuit pack is a functional unit (module) and is electrically connected into the circuit through wire-wrapped terminals. Installer options and level controls are accessible when the outer cover is removed. These options include 600- or 900-ohm line impedance X, Y, and Z wiring which is normally furnished. Z wiring, which connects frame and signal grounds, should normally not be removed since it is required for protection from power line noise.

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-20426,L1 transformer that is shipped loose with each set. The transformer must be plugged into a 3-pronged commercial source of power, 105 to 129 volts RMS at a frequency of 60 Hz, and surface wired to the connecting block (not furnished) that terminates the telephone line cord of the data set D6AA-61. This telephone cord is 5 feet 6 inches long.

1.09 This series of data sets 202H is modular in that a basic prewired set per L1 or L1A may be converted into another 202H-type set by the addition of BE boards, filters, networks, or relays with appropriate wiring. All wiring must be run with respect to pairing and tripling only as shown on SD-1D169-01, sheets D2 through D7.

1.10 These data sets are designed to operate in an environment of +40° to 120°F ambient temperature and 20 to 95 percent humidity.

1.11 The set measures 10½ by 14 by 5½ inches high, and the most complex set weighs 12 pounds.

SECTION 592-023-180

1.12 The buttons are arranged to provide the following:

SD-1D169-01	PUSHBUTTON CONTROLS
FS1	Test, Tone, Talk, Data (Auto blocked)
FS2	Test, Tone, Talk, Data (Auto blocked)
FS3	Test, Tone, Auto, Talk, Data
FS4	Test, Tone, Auto, Talk, Data

1.13 Data sets per SD-1D169-01, FS3 and FS4 (list 4) may be connected to an automatic calling unit 801 type and are compatible with data sets 202C, D, E, and G type. When coupled to the ACU, specify option K and order a 149C adapter. Option K provides the M14E cord suitable for connecting the 202H to the 149C adapter, which then may in turn connect via an M14C cord (ordered separately) to the 801A or 801C ACU.

2. SUPPLEMENTARY INFORMATION

- X-17151—Product Design Requirements for Solderless Wrap Terminal Design
- X-17585—Manufacturing Testing Requirements for Data Set 202H and 202M Type and Circuit Packs
- X-77360—Test Requirement BE1
- X-77360—Test Requirement BE26
- A-157100—Common Features Drawing for PWBs
- AA610.11—Packaged Electronic Products
- AA610.12—Printed Wire Board Assemblies
- 590-010-200—General Installation and Connection Information
- 592-023-100—Description and Operation
- 592-023-200—Installation and Connections
- 592-023-300—Maintenance
- 592-023-500—Test Procedures
- BSRS—Data Set 202H Type
- KS-20426,L1—Transformer
- Technical Reference—202H and 202M Type Data Set Interface Specification

BUSINESS MACHINE INTERFACE

202H-L1/2	FS1
202H-L1A/2	FS1

PIN NUMBER	FUNCTION
1	Frame Ground
2	Not Used
3	Received Data
4-6	Not Used
7	Signal Ground
8	Carrier Detector
9	+P
10	-P
11-25	Not Used

202H-L1/3/5	FS2
202H-L1A/3/5	FS2

PIN NUMBER	FUNCTION
1	Frame Ground
2	Not Used
3	Received Data
4-6	Not Used
7	Signal Ground
8	Carrier Detector
9	+P
10	-P
11, 14	Supervisory Transmitted Data
12, 13, 15-25	Not Used

202H-L1/2/4	FS3
202H-L1A/2/4	FS3

PIN NUMBER	FUNCTION
1	Frame Ground
2	Not Used
3	Received Data
4-5	Not Used
6	Data Set Ready
7	Signal Ground
8	Carrier Detector
9	+P
10	-P
11-19	Not Used
20	Data Terminal Ready
21-25	Not Used

202H-L1/3/4	FS4
202H-L1A/3/4	FS4

PIN NUMBER	FUNCTION
1	Frame Ground
2	Not Used

PIN NUMBER	FUNCTION
3	Received Data
4-5	Not Used
6	Data Set Ready
7	Signal Ground
8	Carrier Detector
9	+P
10	-P
11, 14	Supervisory Transmitted Data
12, 13, 15-19	Not Used
20	Data Terminal Ready
21-25	Not Used

3. DRAWINGS

SD-1D169-01—Data Set 202H and 202M Type Receiver Circuit Schematic

CIRCUIT DRAWING	J SHEET	CIRCUIT PACK
SD-1D060-01	J150	BE1
	J511 A, B	BE26
SD-1D169-01	J1	BE38
	J2	BE39
	J3	BE40
	J4	BE51
	J5	BE53
	J6	BE54
	J7	BE55
	J8	BE56
	J9	BE57
No Schematic		BE41

4. PRODUCT

Data Set 202H-Type Receiver

List 1—Basic set with rotary dial telephone includes assembly, basic wiring, and com-

mon apparatus such as power rectifier, demodulator carrier detector, transformer, terminal board, 1023B filter, and a separate KS-20426,L1 transformer per SD-1D169-01, Fig. 1, Z and Y options.

List 1A—Basic set with TOUCH-TONE® telephone includes assembly, basic wiring, and common apparatus such as power rectifier, demodulator carrier detector, transformer, terminal board, 1023B filter, and a separate KS-20426,L1 transformer per SD-1D169-01, Fig. 1, Z and Y options.

List 2—Remote test without reverse channel per SD-1D169-01, App Fig. 5.

List 3—Reverse channel with remote test per SD-1D169-01, App Fig. 3 and 6.

List 4—Unattended line control (answering and autocalling with 801-type ACU) per SD-1D169-01, App Fig. 4.

List 5—Tone switch relay per SD-1D169-01, App Fig. 7.

TABLE OF AUTHORIZED ORDERABLE CODE NUMBERS

DATA SET	RATING	REPLACED BY
202H-L1/2	AT&TCo Std	—
202H-L1A/2	AT&TCo Std	—
202H-L1/3/5	AT&TCo Std	—
202H-L1A/3/5	AT&TCo Std	—
202H-L1/2/4	AT&TCo Std	—
202H-L1A/2/4	AT&TCo Std	—
202H-L1/3/4	AT&TCo Std	—
202H-L1A/3/4	AT&TCo Std	—

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