

38A-TYPE DATA UNIT IDENTIFICATION

1. GENERAL

1.01 This section covers the identification and operation of the 38A-type data unit. It does not include information concerning business machines or the data sets to which the 38A-type data unit provides a multiple access customer interface.

1.02 The 38A-type data unit, as shown in Fig. 1, is initially used with data sets 203-type in 4-wire private line applications to provide a multiple access customer interface (fan-out). The 38A-type data unit will accommodate up to six Electronic Industries Association (EIA) Specification RS-232-C interface arrangements.

2. PHYSICAL DESCRIPTION

2.01 The 38A-type data unit consists of a mounting plate assembly holding a 61B apparatus mounting and a customer interface panel. AR603 circuit pack and AR604 circuit pack are installed in slot 08 and slot 10, respectively, of the apparatus mounting.

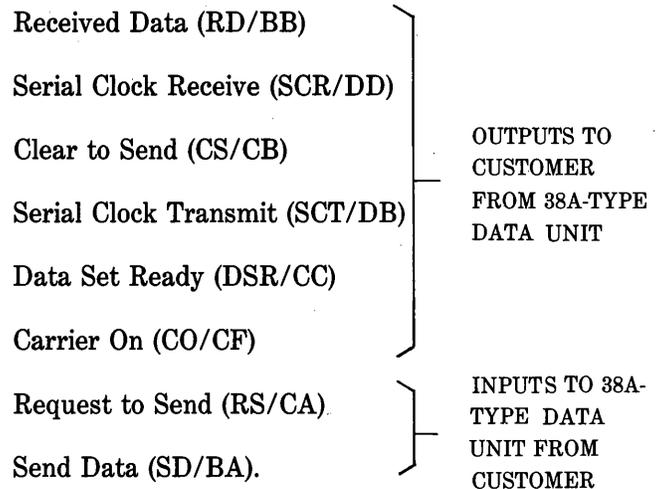
2.02 Two 25-conductor cords extend from the rear of the 38A-type data unit for connection to a 24A-type data unit. Six 25-pin connectors are terminated on the front panel for customer interface arrangements.

2.03 The 38-type data unit requires operating voltages of +18.5V dc, -18.5V dc, and +4.5V dc. Both 18.5V dc voltages are supplied by the 24A-type data unit through the connecting cord terminated in P3. The 4.5V dc and ground are supplied either by jumper straps to a 22A-type data unit or by a flexible tape conductor from a 41A-type power supply.

2.04 The approximate overall dimensions of the 38A-type data unit are 9.5 inches long, 5.75 inches high, and 8.75 inches deep. The data unit weighs approximately 8 pounds.

3. FUNCTIONAL DESCRIPTION

3.01 Functionally, the 38A-type data unit consists of fan-in logic circuitry to provide gating which allows control by each business machine of send data (SD/BA) and request to send (RS/CA) interface leads and fan-out circuitry to provide data set outputs to each business machine. Customer interface connector (J1) contains all of the standard 203 interface leads while connectors J2 through J6 provide the customer with only the following eight functions:



3.02 Option YF provides a permanent request to send method of operation by holding the internal data set RS/CA lead high. This will keep the carrier on-line continuously and will prevent retraining of the data set each time one of the customer RS/CA leads goes high. Option YF is installed by tightening the screw switch on AR604.

4. REFERENCES

4.01 The schematic drawing and circuit description covering the 38A-type data unit are SD- and CD-1D230-01.

4.02 Bell System Practices covering equipment associated with the 38A-type data unit are listed below.

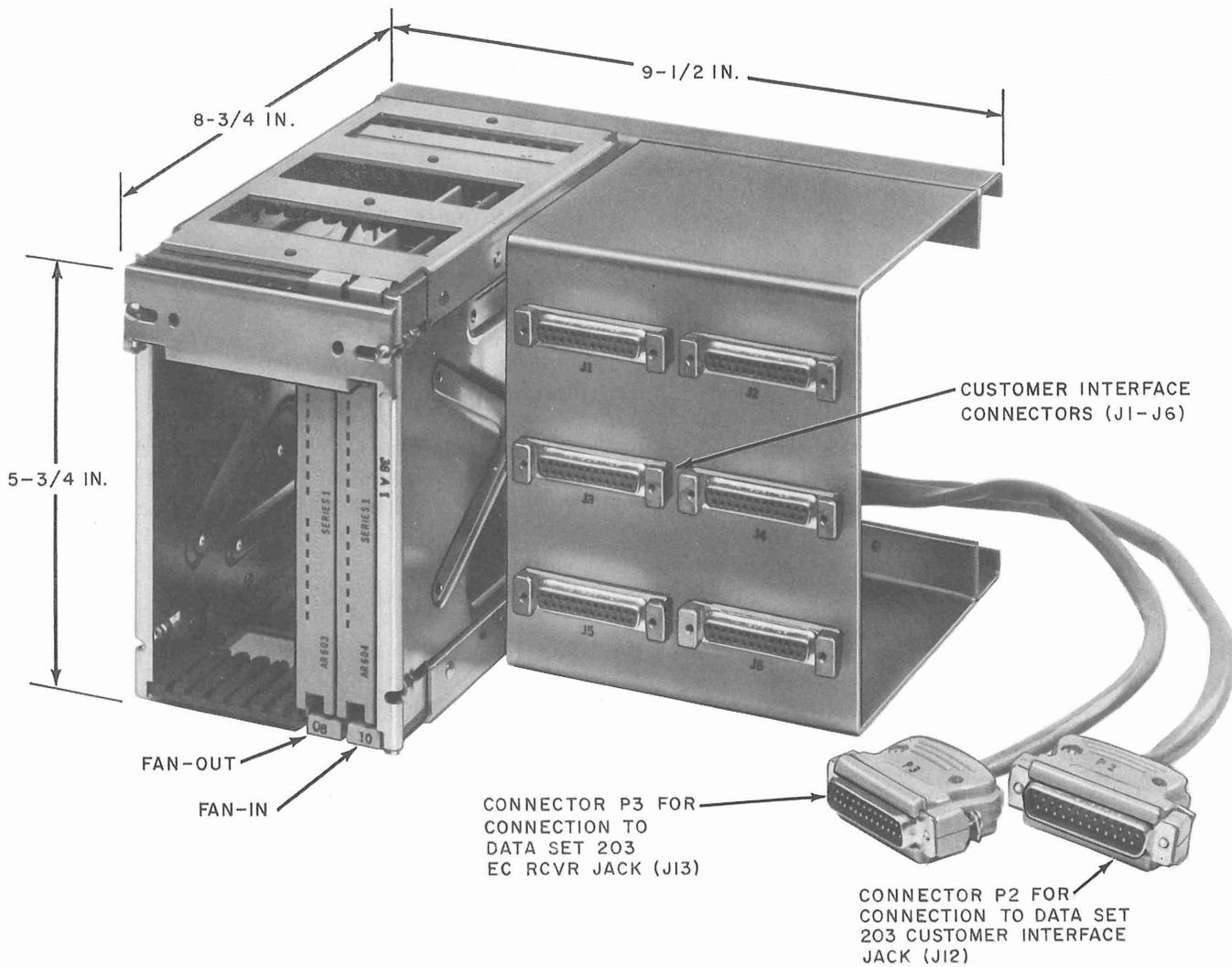


Fig. 1—38A-Type Data Unit—Front View

- 592-019-100 Data Set 203-Type—Description and Operation
- 592-019-200 Data Set 203-Type—Installation and Connections
- 592-019-500 Data Set 203-Type—Test Procedures