

**DATA AUXILIARY SET 811D1**  
**INSTALLATION AND CONNECTIONS**

**1. GENERAL**

**1.01** This section contains instructions for connecting and installing Data Auxiliary Set 811D1. This section does not include specific installation methods for associated customer or related equipment.

**1.02** The Data Auxiliary Set 811D1 is a 23-inch wide rack-mounted set which requires six inches of vertical space and is approximately 9.5 inches deep. When working space is limited, a screw-holder type screwdriver will be required to start the mounting screws.

**1.03** The Data Auxiliary Set 811D1 is designed to be used with Data Set 205C2. Operational limits of the data auxiliary set are for an ambient temperature range of +50 to +120°F

with a relative humidity of between 20 and 95 percent.

**2. INSTALLATION**

**2.01** Install Data Auxiliary Set 811D1 in the desired location by using the necessary hardware and following appropriate codes and practices applicable to this type of equipment.

**2.02** The weight of the data auxiliary set is 17.3 pounds.

**3. CONNECTIONS**

**3.01** Table A provides the lead designations and pin positions used with the CUSTOMER A1 and CUSTOMER B1 interface connectors.

**TABLE A**  
**DESIGNATIONS OF FUNCTIONS THROUGH INTERFACE CONNECTORS**

CONNECTOR	PIN POSITION	DESIGNATION
CUSTOMER A1	1	Frame Ground (FG)
	2 Twisted	Send Data (SD)
	9 Pair	Signal Ground (SG)
	3 Twisted	Receive Data (RD)
	10 Pair	Signal Ground (SG)
	4 Twisted	Carrier ON-OFF Delay (COOD)
	11 Pair	Signal Ground (SG)
	13 Twisted	Serial Clock Receive (SCR)
	6 Pair	Signal Ground (SG)
	15 Twisted	Serial Clock Transmit (SCT)
	8 Pair	Signal Ground (SG)
7 Twisted	Signal Ground (SG)	
14 Pair	Serial Clock Transmit External (SCTE)	
12		
	5 (Must be strapped through CUSTOMER A1 plug)	

TABLE A (Cont)

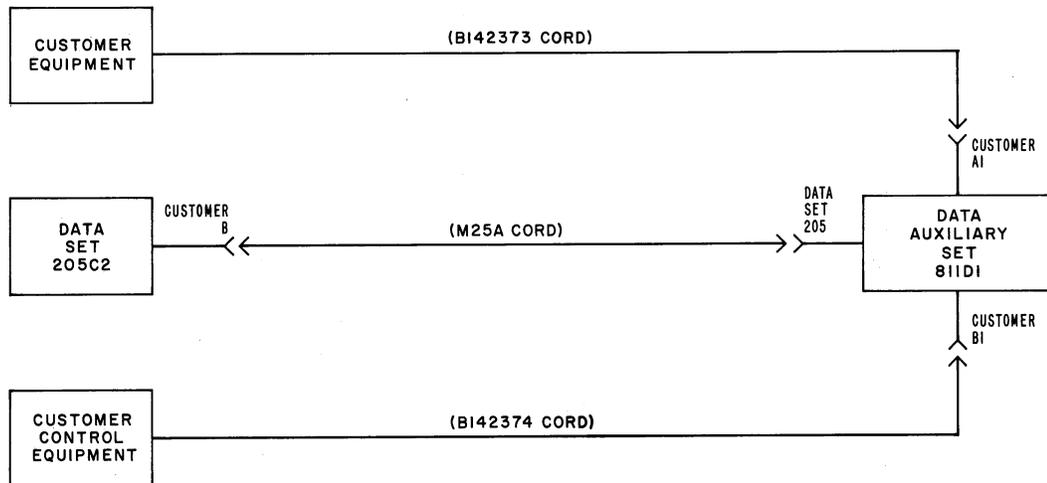
CONNECTOR	PIN POSITION	DESIGNATION
CUSTOMER B1	1	Frame Ground (FG)
	2	Send Data (SD)
	3	Receive Data (RD)
	4	Request to Send (RS)
	5	Clear to Send (CS)
	6	Data Set Ready (DSR)
	7	Signal Ground (SG)
	8	Carrier ON-OFF (COO)
	9	+18I (681 Ohm Series Resistance)
	10	-18I (681 Ohm Series Resistance)
	11	Regeneration (RGRN)
	12	Prepare Receiver (PR)
	13	Data Set Ready X2 (DSRX2)
	14	Clock Rate Select (SCX2)
	15	Serial Clock Transmit (SCT)
	16	Dibit Clock Transmit (DTIA)
	17	Serial Clock Receive (SCR)
	18	Confirm (CON)
	22	Carrier ON-OFF Delayed (COOD)
	23	Data Speed Select (SS)
	24	Serial Clock Transmit External (SCTE)
	25	Remote Test (RMT)

**3.02** If necessary, remove the connector plug from the CUSTOMER A jack on Data Set 205C2, tape, and store. Connect the 15-pin connector of the B142373 cable from the customer equipment to the CUSTOMER A1 jack on the data auxiliary set as shown in Fig. 1.

**Warning:** A hazardous voltage may be present if the CUSTOMER A1 plug is removed and a strap has not been placed between terminals FG1 and SG1. To avoid the possibility of a shock, disconnect the ac power cord of the data auxiliary set and place a strap

*between FG1 and SG1 before removing the CUSTOMER A1 plug. When the CUSTOMER A1 plug is reconnected, remove the strap (if required by the service order) before connecting the ac power cord of the data auxiliary set.*

**3.03** If necessary, remove the connector plug from the CUSTOMER B jack on Data Set 205C2, tape, and store. Connect the 25-pin connector of the B142374 cable from the customer control equipment to the CUSTOMER B1 jack on the data auxiliary set as shown in Fig. 1.



**Fig. 1 — Data Auxiliary Set 811D1 Interconnections, Block Diagram**

**3.04** Connect the 25-pin jack of the supplied M25A-61 Cord to the DATA SET 205 connector on the data auxiliary set. Connect the 25-pin plug on the remaining end of the M25A-61 Cord to the CUSTOMER B connector on Data Set 205C2.

**3.05** The DATA SET 205 connector interface consists of a M25A-61 Cord which carries all of the functions of the Data Set 205C2 CUSTOMER B connector to the DATA SET 205 connector of the data auxiliary set.

**3.06** Data Set 205C2 cannot be used as a regenerative repeater when it is used in conjunction with Data Auxiliary Set 811D1.

**3.07** The Data Auxiliary Set 811D1 cannot be tested remotely.

**3.08** Visually check that terminal SG1 is strapped to terminal FG1. A strap should exist between the two terminals unless the service order specifies strap removal.

**3.09** Connect the ac power cord from the 26A Power Unit to a commercial 117-volt, 60 ( $\pm 0.8$ ) Hz source.

**3.10** Test the data auxiliary set as prescribed in Data Auxiliary Set 811D1, Test Procedures (Section 598-063-500).