

**DATA SET 103F-TYPE**  
**TRANSMITTER-RECEIVER**  
**CONNECTIONS**

**1. GENERAL**

**1.01** This section provides information for installation and connection of Data Set 103F when used as a data station. Information concerning the data terminal equipment (business machines) used with Data Set 103F is not included in this section.

**1.02** This section is reissued to revise transmission levels shown in Table C by providing additional strapping options.

**2. INSTALLATION**

**2.01** Section 591-019-100 describes the methods for removing and replacing the data set covers.

**2.02** Top and rear views of the Data Set 103F-type with covers removed are shown in Fig. 1 and 2.

**3. CONNECTIONS**

**3.01** Connect the D4BM-61 mounting cord (red and green cord conductors) to terminal board TB2 as shown in Table A.

**3.02** Service options shown in Table B and C should be specified on the service order or circuit layout card.

**3.03** Verify with the local test center that the loop facility has been tested and the transmission requirements specified in Section 314-410-500 have been met.

**3.04** The data set is factory-wired to provide a transmission level of 0 dBm on both channels. Levels may be changed by rearranging spade-tipped straps on TB1. Adjust the transmit levels per service order or circuit layout card.

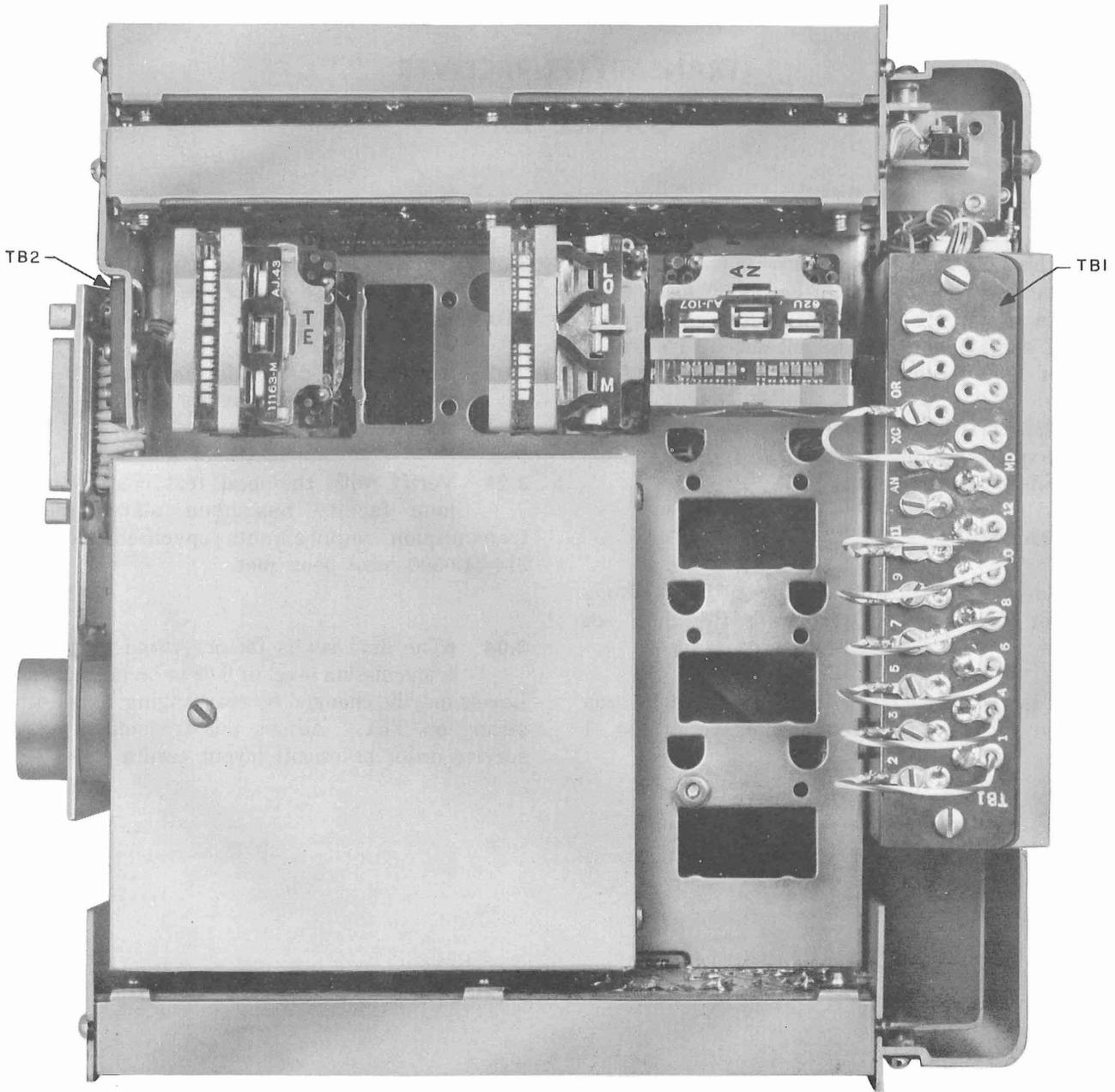


Fig. 1—Data Set 103F-Type—Top View

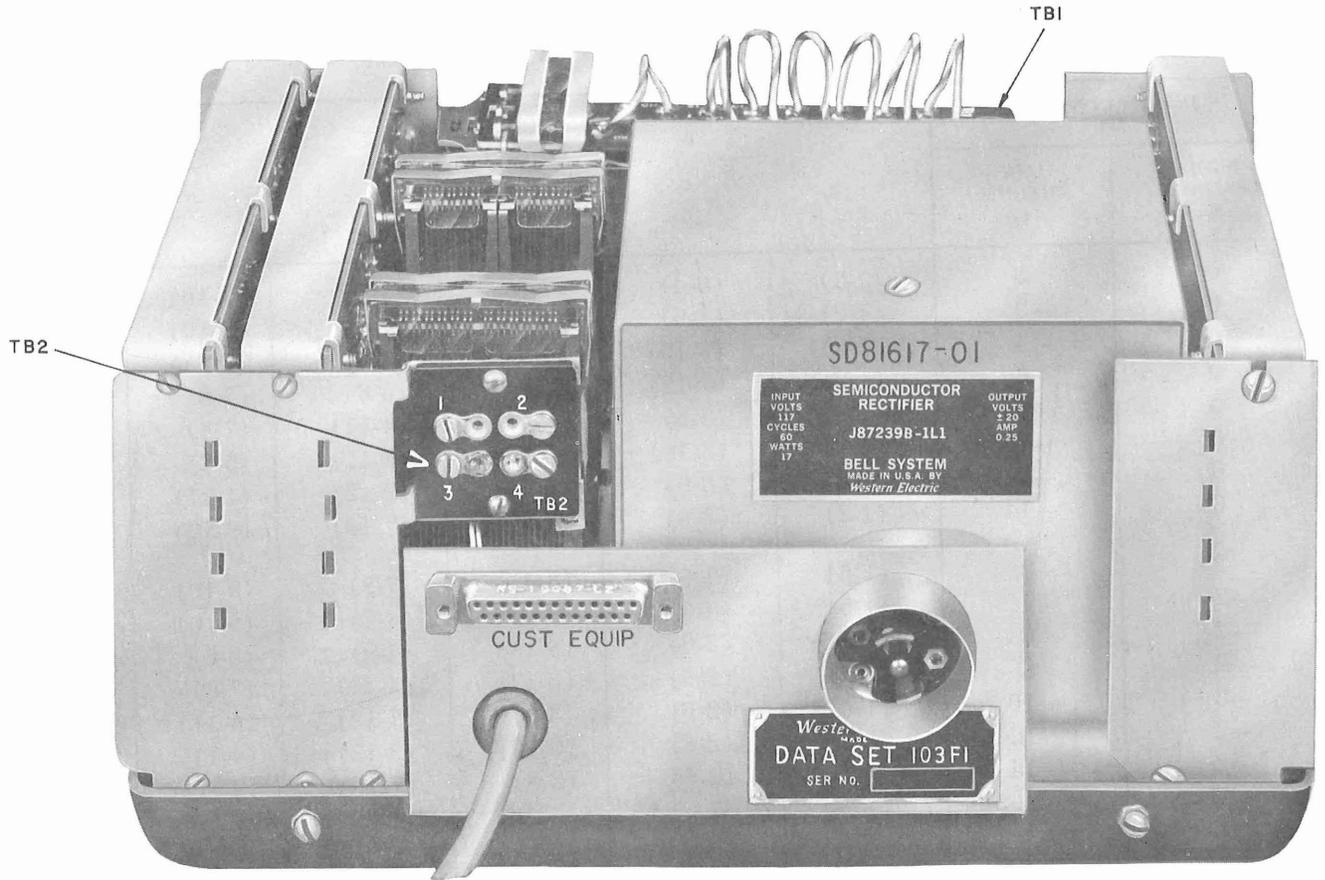


Fig. 2—Data Set 103F-Type--Rear View

TABLE A

MOUNTING CORD CONNECTIONS

LEAD	CORD COLOR	TB2 CONNECTOR TERMINAL
DT	GR	3
DR	R	4

TABLE B

SERVICE OPTIONS

OPTION	PROVIDE	STRAP CONNECTION TB1
Answering Mode Only	1 Per Station	MD to AN
Originating Mode Only		MD to OR
Business Machine Control of Originating and Answering Mode		MD to XC

**TABLE C**  
**CONNECTIONS FOR TRANSMIT LEVELS**

TRANSMIT LEVELS DBM		TBI STRAP CONNECTIONS					
HIGH CHANNEL $f_2$	LOW CHANNEL $f_1$						
0	0	(1-2)	(3-4)	(5-6)	(7-8)	(9-10)	(11-12)
0	-2	(1-2)	(3-6)	(4-5)	(7-8)	(9-10)	(11-12)
0	-4	(1-2)	(3-10)	(4-9)	(5-6)	(7-8)	(11-12)
0	-6	(1-2)	(3-12)	(4-11)	(5-6)	(7-8)	(9-10)
0	-8	(1-2)	(3-6)	(5-12)	(4-11)	(7-8)	(9-10)
0	-10	(1-2)	(3-10)	(9-12)	(4-11)	(5-6)	(7-8)
0	-12	(1-2)	(3-6)	(5-10)	(9-12)	(4-11)	(7-8)
0	-14	(1-2)	(3-6)	(5-8)	(7-10)	(9-12)	(4-11)
-2	-2	(1-5)	(2-6)	(3-4)	(7-8)	(9-10)	(11-12)
-2	-4	(1-5)	(2-6)	(3-8)	(4-7)	(9-10)	(11-12)
-2	-6	(1-5)	(2-6)	(3-10)	(4-9)	(7-8)	(11-12)
-2	-8	(1-5)	(2-6)	(3-12)	(4-11)	(7-8)	(9-10)
-2	-10	(1-5)	(2-6)	(3-8)	(7-12)	(4-11)	(9-10)
-2	-12	(1-5)	(2-6)	(3-10)	(9-12)	(4-11)	(7-8)
-2	-14	(1-5)	(2-6)	(3-8)	(7-10)	(9-12)	(4-11)
-4	-4	(1-9)	(2-10)	(3-4)	(5-6)	(7-8)	(11-12)
-4	-6	(1-9)	(2-10)	(3-6)	(4-5)	(7-8)	(11-12)
-4	-8	(1-9)	(2-10)	(3-6)	(5-8)	(4-7)	(11-12)
-4	-10	(1-9)	(2-10)	(3-12)	(4-11)	(5-6)	(7-8)
-4	-12	(1-9)	(2-10)	(3-6)	(5-12)	(4-11)	(7-8)
-4	-14	(1-9)	(2-10)	(3-6)	(5-8)	(7-12)	(4-11)
-6	-6	(1-11)	(2-12)	(3-4)	(5-6)	(7-8)	(9-10)
-6	-8	(1-11)	(2-12)	(3-6)	(4-5)	(7-8)	(9-10)
-6	-10	(1-11)	(2-12)	(3-10)	(4-9)	(5-6)	(7-8)
-6	-12	(1-11)	(2-12)	(3-6)	(5-10)	(4-9)	(7-8)
-6	-14	(1-11)	(2-12)	(3-6)	(5-8)	(7-10)	(4-9)
-8	-8	(1-5)	(6-11)	(2-12)	(3-4)	(7-8)	(9-10)
-8	-10	(1-5)	(6-11)	(2-12)	(3-8)	(4-7)	(9-10)
-8	-12	(1-5)	(6-11)	(2-12)	(3-10)	(4-9)	(7-8)
-8	-14	(1-5)	(6-11)	(2-12)	(3-8)	(7-10)	(4-9)
-10	-10	(1-9)	(10-11)	(2-12)	(3-4)	(5-6)	(7-8)
-10	-12	(1-9)	(10-11)	(2-12)	(3-6)	(4-5)	(7-8)
-10	-14	(1-9)	(10-11)	(2-12)	(3-6)	(5-8)	(4-7)
-12	-12	(1-5)	(6-9)	(10-11)	(2-12)	(3-4)	(7-8)
-12	-14	(1-5)	(6-9)	(10-11)	(2-12)	(3-8)	(4-7)
-14	-14	(1-5)	(6-7)	(8-9)	(10-11)	(2-12)	(3-4)