DATA SET 401A

TRANSMITTER

INSTALLATION AND CONNECTIONS

1. GENERAL

1.001 This addendum supplements Section 594-010-200, Issue 3.

1.002 This addendum is issued to revise Fig. 3 and to specify an attenuator pad to reduce the output power of the data set in compliance with FCC Tariff No. 263. To comply with this tariff, the signal level at the serving central office must be no greater than -12 dBm.

1.003 Information on the pad mentioned in 1.002 is added to the section as Part 4 of this addendum.

3. CONNECTIONS

The following change applies to Part 3 of the section:

(a) Fig. 3—revised

Fig. 3—EB should be designated EH; EH should be designated EB.

4. LOOP LOSS MEASUREMENT AND PADDING

4.01 Measure loop loss in dB at 1 kHz. Determine the required attenuation from Table C.

4.02 The required pad may be ordered, or made in the field, and installed in accordance with Fig. 6.

4.03 After installation of pad, measure loop loss again to verify installation. Record addition of pad and new power level on the associated circuit record card.

TABLE C

ATTENUATION REQUIRED

	MEASURED LOOP LOSS IN dB @ 1 kHz										
	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12
PAD ATTENUATION REQUIRED (dB) (Note)	4	3	2	1	None Required							

Note: Due to the lower activity factors associated with typical applications of the 401A-type transmitters, a smaller value of pad may be used than would be required on other data sets.

LOSS (DB)	RESISTOR VALUE (OHMS)			ORDERING INFORMATION
	R1	R2	R3	
1	8200	47	47	F-58101
2	3900	110	110	F-58102
3	2700	160	160	F-58103
4	2000	220	220	F-58104
5	1500	240	240	F-58105
6	1100	270	270	F-58106

NOTES:
1. ALL RESISTORS ARE ALLEN BRADLEY 1 WATT ±5% (KS-19151,L1). CAPACITOR IS WECO 542 D-TYPE, 1 UF, 200 VDC.
2. MOUNT COMPONENTS ON 44A CONNECTING BLOCK, WHICH IS MOUNTED ON 168E BACKBOARD.
3. USE A 101C-49 COVER TO PROTECT PAD. STENCIL PAD VALUE ON COVER FOR FUTURE REFERENCE.

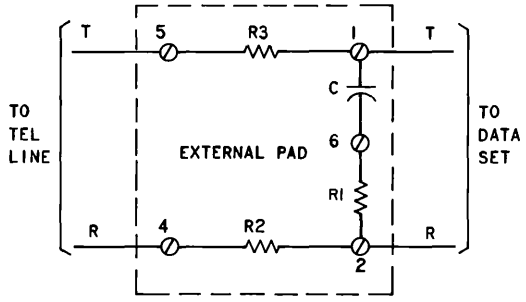

Fig. 6—Construction of External Pad