830H NETWORK

INSTALLATION AND PRESCRIPTION SETTINGS

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1. GENERAL

1.01 This section gives the installation procedure and prescription settings for the 830H network which is used in the E6 repeater on 2-wire, 26-gauge nonloaded short haul direct, tandem, and toll connected trunks with no bridged tap.

1.02 The 830H network is described in Section 332-206-128.

2. INSTALLATION

2.01 The 830H network mounts face up on either the A side or B side of the E6 repeater, and is secured by four screws on the chassis connector block. These screws also make the electrical connection between the network and the repeater.

3. PRESCRIPTION SETTINGS

3.01 Tables A through E show the settings for switches SW1, SW2, and SW3 and potentiometers R5 and R8. Table A shows the control settings for a one-repeater system. Table B shows the control settings for a two-repeater system. Table C shows the settings for potentiometer R5 in a one-repeater system. Table D shows the settings for potentiometer R8 in a one-repeater system. Table E shows the settings for R5 in a two-repeater system.

3.02 The values of the components are determined by the length of the 26-gauge cable, not by the gain of the 831-type unit.

TABLE A
CONTROL SETTINGS FOR
ONE-REPEATER SYSTEM

CONTROL	CABLE LENGTH	
	6 TO 8.5 KFT	8.5 TO 12 KFT
SW1	U	D
SW2	D	D
SW3	U	U
R5	SEE TABLE C	
R8	SEE TABLE D	

TABLE B
CONTROL SETTINGS FOR
TWO-REPEATER SYSTEM

CONTROL	CABLE LENGTH
	12 TO 16 KFT
SW1	D
SW2	U
SW3	D
R5	SEE TABLE E
R8	72*

*Numbers do not appear on
the R5 and R8 Controls.
Numbers are used for reference
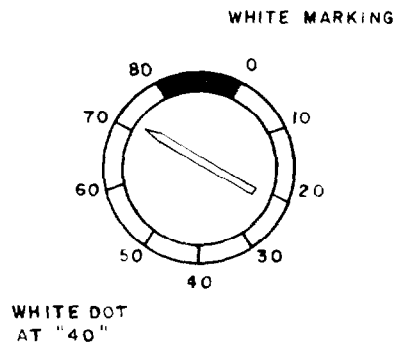only as shown below.

WHITE MARKING

WHITE DOT
AT "40"

TABLE C
ONE-REPEATER SYSTEM SETTINGS FOR R5

		CABLE LENGTH IN KFT				
	0 – 7.5	8	8.5	9 – 10	10.5 – 11	11.5 – 12
R5 SETTINGS	0	17	32	49	64	80

Note: Numbers do not appear on the R5 and R8 controls (See * under Table B).

TABLE D
ONE-REPEATER SYSTEM SETTINGS FOR R8

	CABLE LENGTH IN KFT													
	0	6.5	7	7.5	8	8.2	8.5	9	9.5	10	10.5	11	11.5	12
R8 SETTINGS	0	23	29	37	72	80	26	29	32	36	44	48	51	53

Note: Numbers do not appear on the R5 and R8 controls (see * under Table B)

TABLE E
TWO—REPEATER SYSTEM SETTINGS FOR R5

	CABLE LENGTH IN KFT		
	12 – 13	13.5 – 14.5	15 – 16
R5 SETTINGS	33	49	65

Note: Numbers do not appear on the R5 and R8 controls (see * under Table B).