VOICEBAND MULTIPORT SPLIT BRIDGE WITH GAIN, EQUALIZATION AND TEST ACCESS IDENTIFICATION

1. GENERAL

1.01 This section covers the identification and operation of the ED-2C029-30 Voiceband Multiport Split Bridge with gain, equalization and test access.

1.02 The bridge assembly, shown in Fig. 1, consists of separate distribution and collection bridges (that is, a split bridge). The primary use of the bridge assembly is in polling applications for 4-wire data services that require electrical independence between the distribution and collection functions. The bridge network is arranged to provide either one 12-port circuit or two 6-port circuits. The loss of the resistive networks used for each bridge is 23 dB, and the impedance is 600 ohms.

2. PHYSICAL DESCRIPTION

2.01 The complete bridge assembly consists of four separate units assembled on mounting bars. The complete bridge assembly can be mounted in 23-inch bulb angle or unequal flange duct-type bays on 1-3/4 inch or 2-inch mounting centers.

2.02 The complete bridge assembly consists of three standard V-4 repeater plug-in component shelves and a test access panel (ED-2C108-30) with circuit graphics. The upper two plug-in shelves are 227-type amplifier shelves, each housing 12 amplifiers or 849-type networks. The lower plug-in shelf is a 359-type equalizer shelf for housing 12 equalizers.

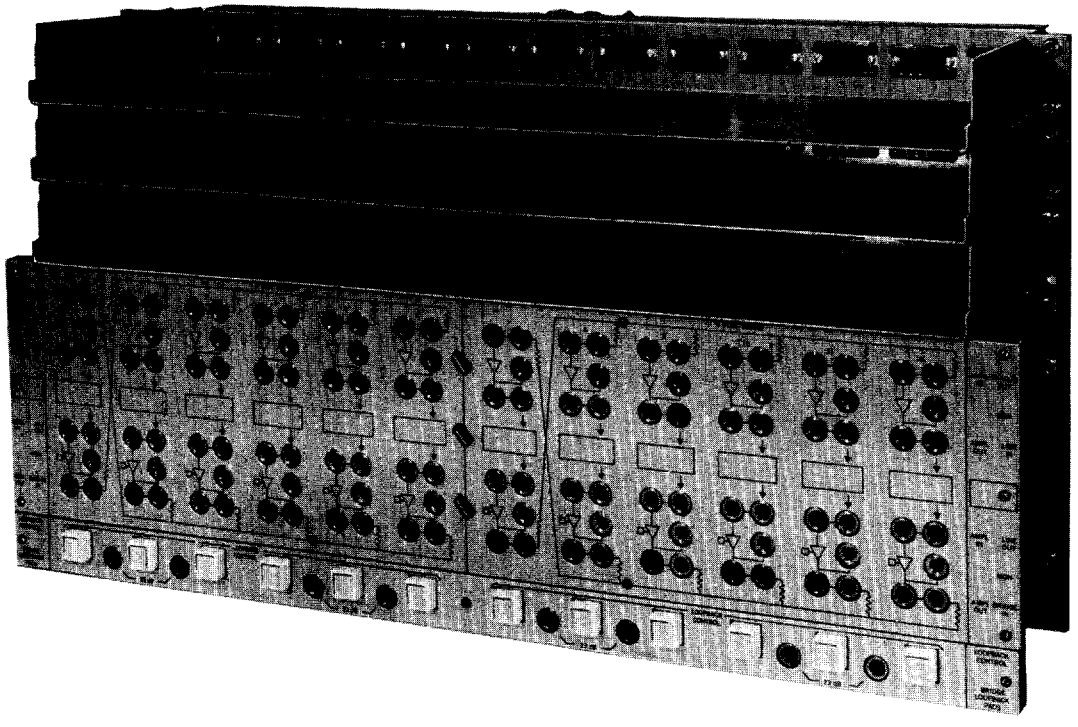

Fig. 1—Voiceband Multiport Split Bridge

2.03 The test access panel ED-2C108-30 is comprised of the following hardware items:

2—ED-2C086-30 G1 printed wiring board assemblies

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48—572A jacks

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24—246AM jacks (Amp Out MON)

8—238AM jacks (23-dB pads)

1—597A key (bridge conversion switch)

2—592A keys (bridge load switch)

12—630B4 keys (DC loop-back control)

2—251B terminal blocks

2—27A fanning strips.

2.04 The test access panel ED-2C108-30 consists of an upper and lower section. The upper section contains the distribution and collection bridge circuit graphics that are printed on a reversible faceplate. The faceplate is a 1/16-inch anodized aluminum panel containing the graphics for the 6-port bridges on one side and the 12-port bridge on the opposite side of the panel.

2.05 The bridge assembly measures 12-1/2 inches high, 23 inches wide, and 10 inches deep. The assembly weighs approximately 35 pounds.

3. REFERENCES

3.01 The schematic drawing and circuit description covering the ED-2C029-30 bridge assembly are SD- and CD-99565-01.

3.02 More descriptive and test information on the data assembly is covered in the following Bell System Practices.

SECTION	TITLE
314-815-100	Voiceband Multiport Split Bridge With Gain, Equalization and Test Access—Description
314-815-500	Voiceband Multiport Split Bridge With Gain, Equalization and Test Access—Test Procedures