## 4066E NETWORK

## DESCRIPTION


#### Abstract

CONTENTS PAGE is connected through shelf wiring to the balancing network terminals ( 10,11 ) of the 1-type terminating set. Mounting for the 4066-type network is not provided in older 24 V 4 terminal repeaters. When used with this older equipment, the network is separately mounted, and cross-connected to the repeater as required.


## 2. EQUIPMENT DESCRIPTION

2.01 The 4066E network (see Fig. 1) consists of an aluminum can containing a printed circuit board, a 20 -pin connector plug, and a plastic faceplate which contains two screw-type switches. The network is approximately 1-3/4 inches high by $1-3 / 4$ inches wide by 7 inches long. Tabs are provided on the front of the can to facilitate removal of the network from the mounting shelf socket by the use of a 602 C or 602 D tool.
2.02 The two screw-type switches are identified on the faceplate by the letters A and B. The circuit location and function of the switches are illustrated in Fig. 2.

## 3. CIRCUIT DESCRIPTION

3.01 Fig. 2 is a schematic of the 4066 E network. The circuit consists of four resistors, three capacitors, an inductor, and two faceplate screwtype switches arranged to provide an adjustable impedance across terminals 10 and 11.
3.02 Adjustment of the network for the various capacitance levels encountered in specific cables is accomplished by opening or closing the appropriate faceplate screw-type switches. Table A lists the screw settings required to obtain the precision impedance balance of the cable facilities involved.
3.03 Fig. 3 illustrates the midsection impedance characteristics of the 4066 E network.

| TABLE A |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| 4066E NETWORK - SCREW SETTINGS |  |  |  |  |



Fig. 2-4066E Network - Schematic


Fig. 3 - 4066E Network — Midsection Impedance - Simulating 19H44-S Cable

