

J99343GE 2-2 WIRE TERM RPTR (NL)/LSE CFU MTC2241A

DATA SHEET

METALLIC FACILITY TERMINAL

The J99343GE is a 2-2 wire terminal (NL) loop signaling repeater (LSE) CFU. This unit provides gain, equalization, and signaling range extension on 2-wire circuits between terminal equipment and a nonloaded facility. The J99343GE will function in either a single-module frame or in the transmission slot of a double-module frame.

For a detailed description of this unit, see Section 332-912-156, CD-7C050-01, and SD-7C050-01 (CPS 8). The set-up procedure is covered in Section 332-912-256. A block diagram is shown in Fig. 1. Figure 2 provides switch identification.

GAIN ADJ: Five miniature switches (GAIN ADJ) control the gain of the repeater. The GAIN ADJ switches, accessible through the front panel, are labeled .25, .50, 1.0, 2.0, and 4.0. These switches are ganged to provide the same gain in both directions of transmission.

The maximum gain, including equalizer gain, should be limited to 6 dB.

SLOPE: Four rocker switches (designated 1, 2, 4, and A) adjust the SLOPE equalization for both directions of transmission simultaneously.

PBN (R1, R2, Z): The precision balance network (PBN) provides hybrid balance by matching the impedance of nonloaded cable. The PBN adjustments are controlled by three sets of switches: R1 (4, 2, 1), R2 (8, 4, 2, 1), and Z (16, 8, 4, 2, 1).

NOR-DISABLE: This switch provides a special test arrangement for the CFU. In the NOR position, transmission tests can be performed on the repeater section independently of the state of the signaling section. In this arrangement the repeater is continuously activated. In the DISABLE position, the CFU operates in the normal manner.

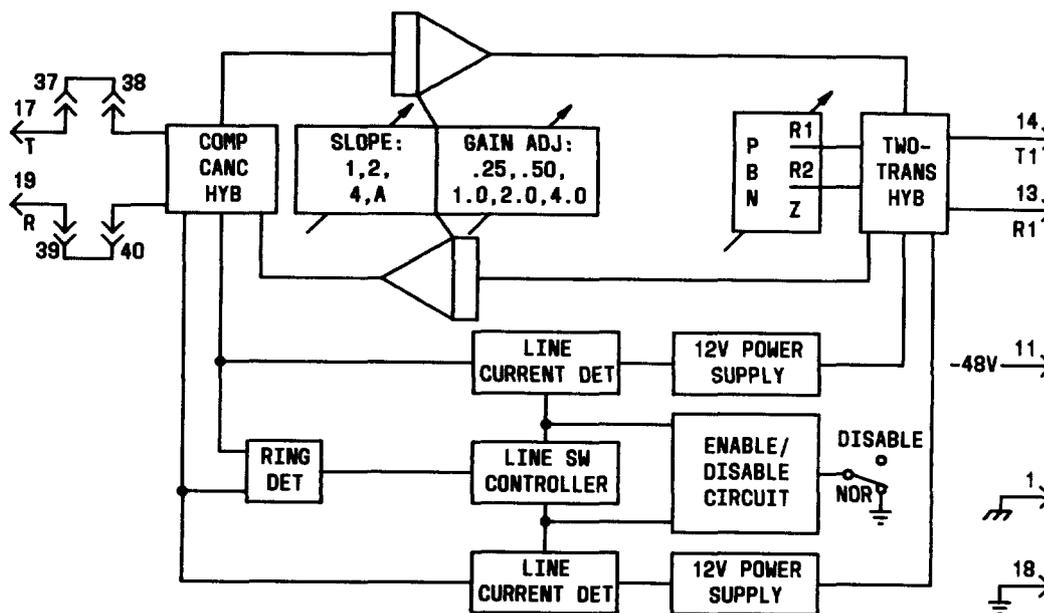


Fig. 1—Block Diagram of the J99343GE

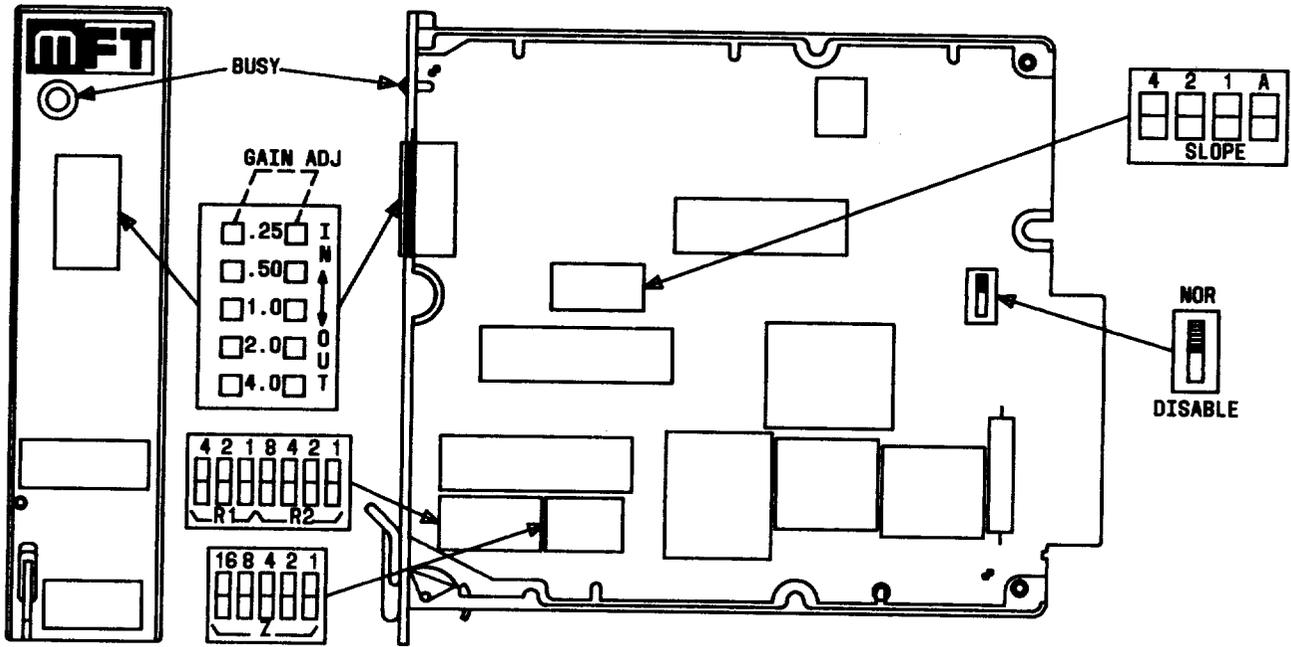


Fig. 2—J99343GE Component Layout