

J99343BC-1,L1 2-WIRE TRANSMISSION UNIT

DATA SHEET

METALLIC FACILITY TERMINAL

The J99343BC-1,L1 2-wire transmission unit provides a 2-wire to 2-wire transformer to couple voice frequency energy in either direction (A-to-B or B-to-A). Signaling access is provided across a midpoint capacitor on each side of the transformer. For a detailed description of this unit, see Section 332-912-101, CD-1C359-01, and SD-1C359-01 (CPS 38). A block diagram is shown in Fig. 1 and switch locations are shown in Fig. 2.

A-SIDE Z and B-SIDE Z: The A-side T and R leads and the B-side T1 and R1 leads are separately connected to a coupling transformer and may be individually set for either 600 or 900 ohms. The switch designations are marked on the circuit board.

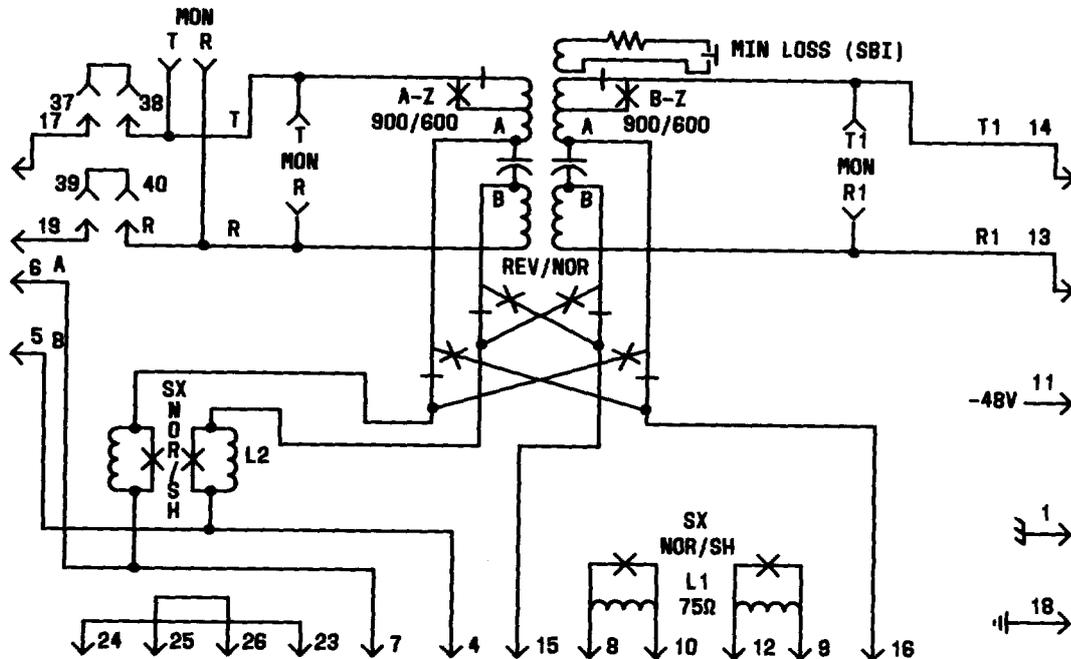


Fig. 1—J99343BC-1,L1 Block Diagram

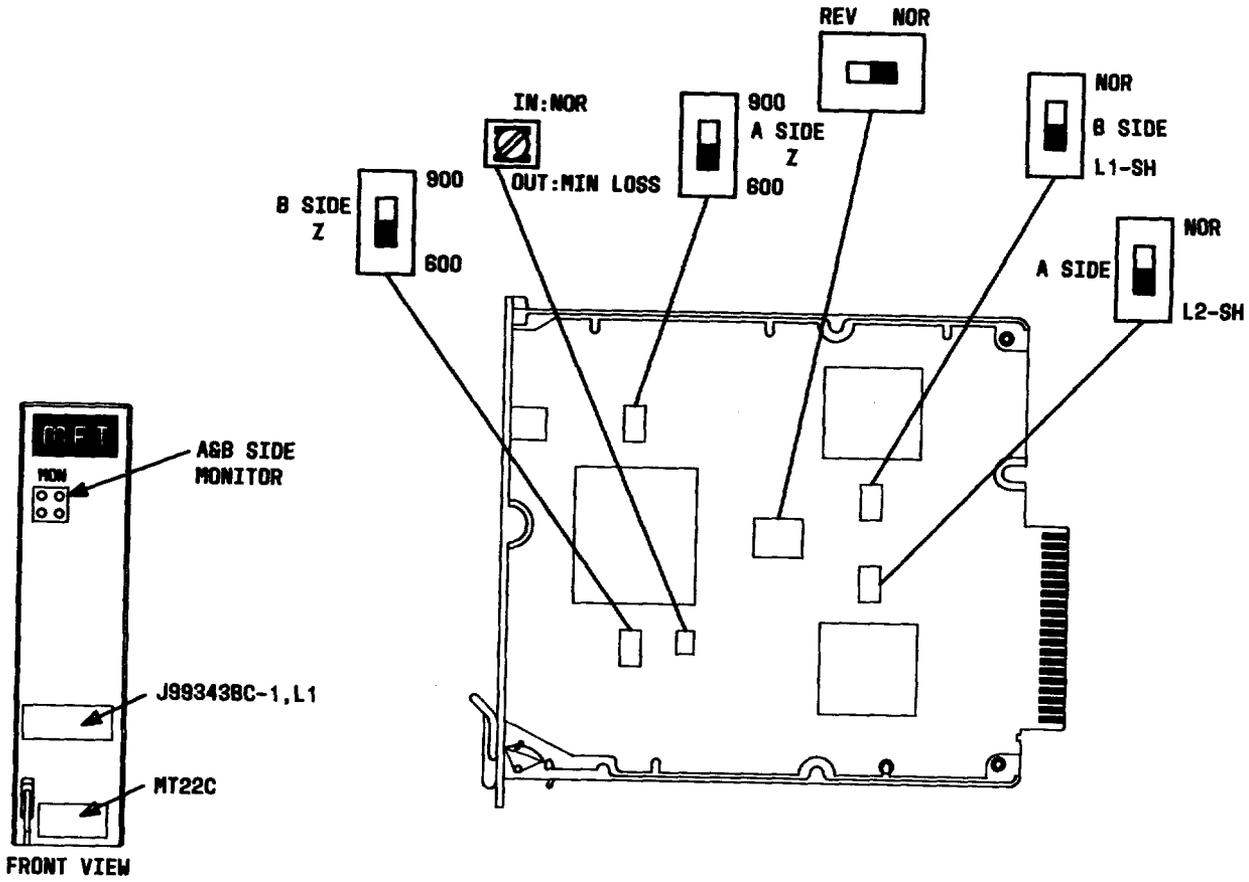


Fig. 2—J99343BC-1,L1 Component Layout

IN:NOR and OUT:MIN LOSS: Resistance is added to the circuit when the switch is operated clockwise. The resistance improves ERL (echo return loss). When the switch is operated counterclockwise, ERL is degraded, but loss is improved.

REV/NOR: This switch reverses the signal access across the midpoint capacitors on each side of the

transformer. The switch is operated when pressed toward the desired marking.

A-SIDE:NOR/L2-SH and B-SIDE:NOR/L1-SH: These switches provide the option of using or removing, by shorting, inductors L1 and L2 in the signal access path. The switches are operated when pressed toward the desired designation.