

J99343BD-1,L1 4-4 WIRE TRANSMISSION UNIT

DATA SHEET

METALLIC FACILITY TERMINAL

The J99343BD-1,L1 4-4 wire transmission unit is used to interface 600-ohm facilities (A-side) with 600- or 1200-ohm facilities (B-side) where gain and equalization is not required. The unit provides simplex leads for signaling treatment in an associated MFT signaling unit with SX and SX1 reversing capability. The unit also provides options for external SX access without a signaling access unit and transmission loss control from -1.0 to -24.5 dB in both transmit and receive circuits. It consists of four attenuator pads, two 4-wire line transformers, and five function

switches. For a detailed description of this unit, see Section 332-912-104, 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.

ATTENUATOR: These slide switches are used to insert loss into the transmit and/or receive paths. Loss is inserted by operating the switches to the desired position. The designations associated with each slide switch correspond to the loss in dB that will be inserted when that switch is operated.

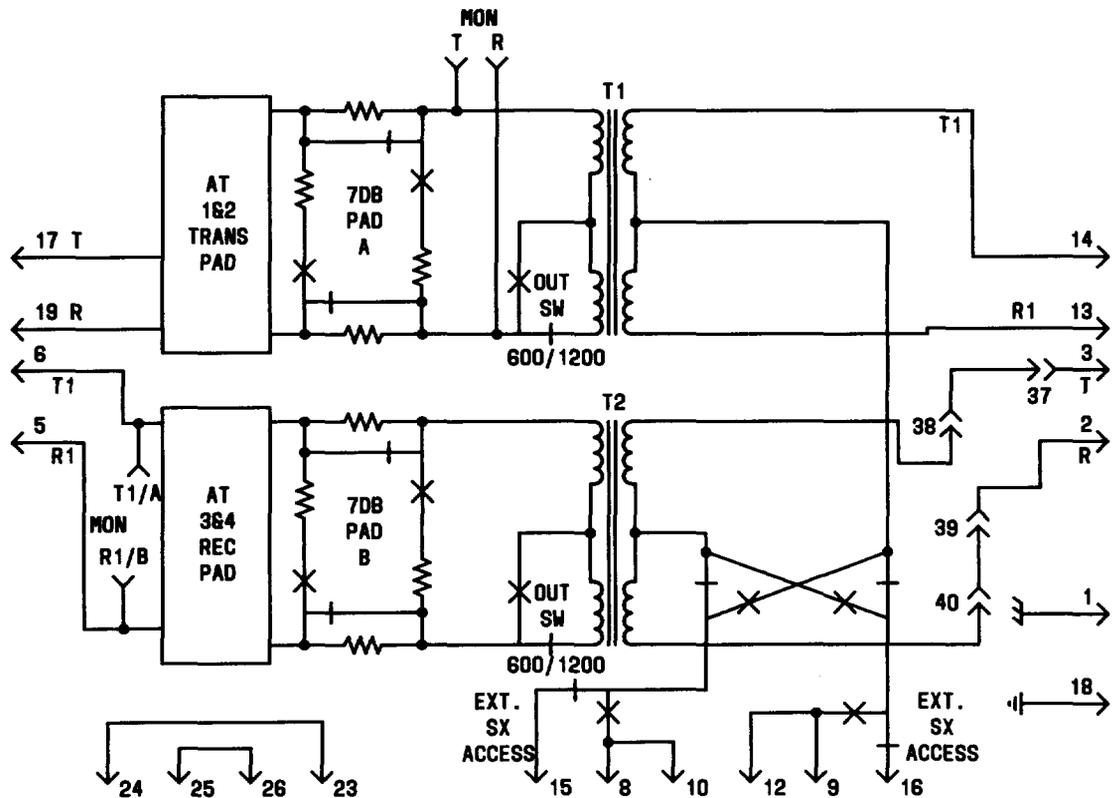


Fig. 1—J99343BD-1, L1 Block Diagram

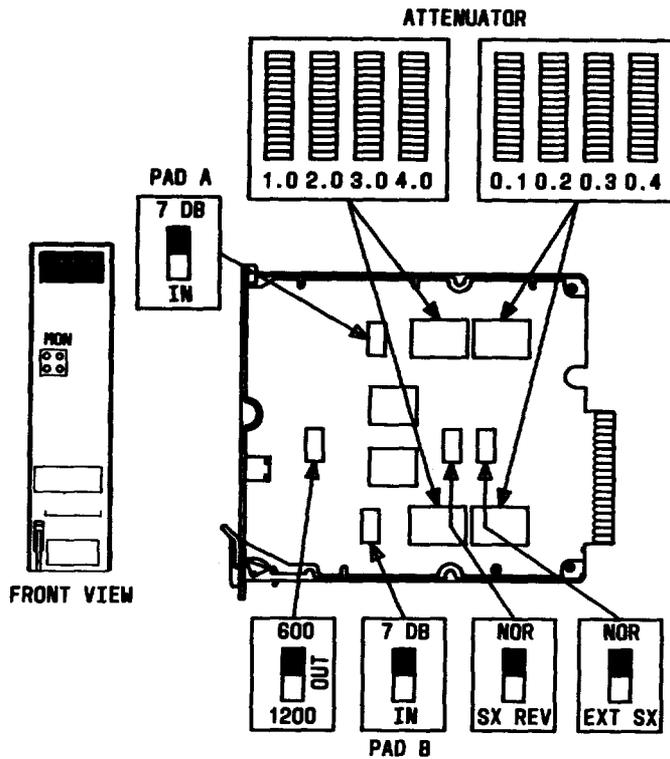


Fig. 2—J99343BD-1, L1 Component Layout

PAD A and PAD B: These switches control the insertion of a 7.0 dB pad in the transmit or receive paths and may be independently switched in or out as required. PAD A is the transmit pad and PAD B is the receive pad. In units without IN/OUT markings, the pads are inserted when the switches are operated away from the switch designation (PAD A/PAD B).

OUT: This switch selects a 600- or 1200-ohm impedance on the facility (B-side). The 600 setting is normally used for nonloaded cable and the 1200 setting, for loaded cable.

NOR/SX REV: This switch reverses the SX and SX1 lead connections of the output transformers on the B side when the switch is operated to the SX REV position.

NOR/EXT SX: This switch allows the SX/SX1 leads to be accessed externally in a double module frame without a signaling access unit in the signaling unit slot. In the NOR position, the SX/SX1 leads are connected to MFT signaling equipment via terminals 15 and 16. In the EXT SX position, the SX/SX1 leads are extended to the distributing frame as BS1 and BS2, respectively.