J98726BD-3, L3, A 2FXS CHANNEL UNIT D4CX100

DATA SHEET

D4 CHANNEL BANK

The 2-wire, 900-ohm Foreign Exchange Station End (2FXS) channel unit (J98726BD) provides the interface between a D4 channel bank or SLC*-96 subscriber loop carrier system terminal and a 2-wire foreign exchange station end circuit. Its primary use is for a foreign exchange off premise station line and a foreign exchange trunk from a PBX to a foreign central office or another special service.

For signaling and supervision, it converts loop signaling and ground conditions into pulses for the digital network. Similar pulses from the digital network are converted into tip ground, tip open, and ringing current for the metallic extension.

The transmission circuitry of this unit contains a hybrid for 2- to 4-wire conversion, compromise balance network, 0 to 6.3 dB attenuators, and network buildout circuitry.

The 2FXS unit is compatible with D4, D3, or D1D FXO units but not with D2 special access units.

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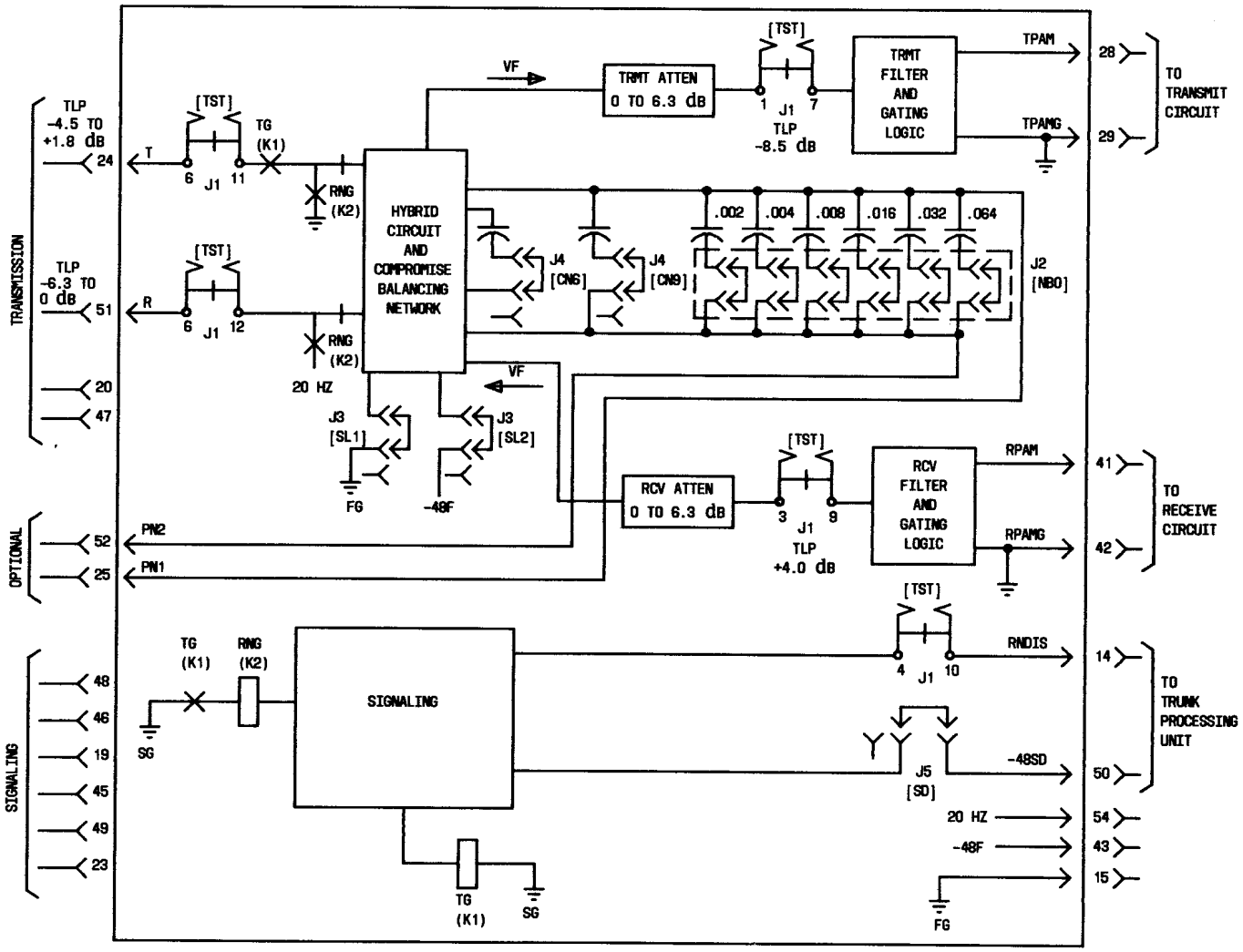

Fig. 1 — J98726BD-3 Block Diagram

For detail, see CD- and SD-3C325-02 and Section 365-170-115. Section 855-351-105 gives prescription (option) settings and application information.

Figure 1 is a functional block diagram of the unit and Fig. 2 gives major component location and option information.

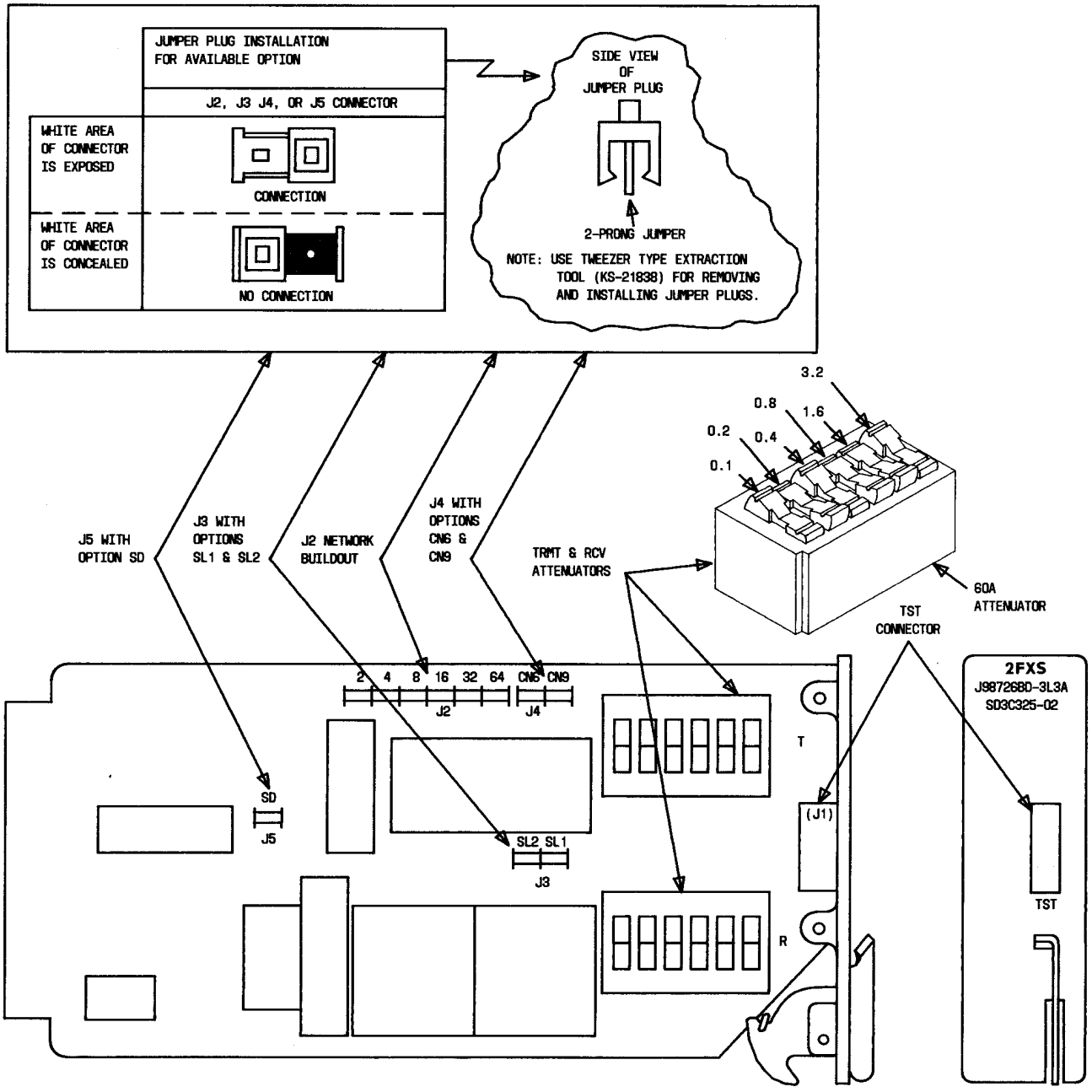

Fig. 2 — J98726BD-3 Component Layout

TST CONNECTOR: Insertion of a test card into this connector provides access to the drop side of the hybrid, the TRMT TLP, the RCV TLP, and the RNDIS lead for test and maintenance purposes.

TRMT AND RCV ATTENUATORS: Switches on these attenuators provide from 0 to 6.3 dB of attenuation in the transmit and/or receive transmission paths in steps of 0.1 dB. Attenuation is inserted into the transmission path by depressing the switch rocker arm. The position of the switches in the above diagram is an example of how to set the attenuator for a loss of 2.6 dB. The total attenuation is the sum of all the values adjacent to the end of each switch that is depressed.

J2 NETWORK BUILDOUT (NBO): Jumper plugs are inserted into socket J2 according to circuit requirements. Network buildout is selected by inserting jumper plugs into the black side (white side showing) of the socket for desired values of capacitance (0.002, 0.004, 0.008, 0.016, 0.032, or 0.064).

J3 WITH OPTIONS SL1 AND SL2: Select option SL1 and SL2 to the OFF position (black side showing) when the channel unit is connected to a permanently connected loop having less than 300 ohms resistance.

J4 WITH OPTIONS CN6 AND CN9: Options CN6 and CN9 should be selected in conjunction with the NBO option to provide the best transmit hybrid loss for each termination. Normally, option CN6 is selected to the OFF position (black side showing) and option CN9 is selected to the ON position (white side showing). Both options should be selected to the OFF position (black side showing) when a precision network is connected to the channel unit.

J5 WITH OPTION SD: Select option SD (white side showing) when it is desired to reoperate the TG relay 2 seconds after carrier failure.