DIMENSION® PBX

STATION MESSAGE DETAIL RECORDING (SMDR) CONNECTION

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1. GENERAL

1.1 This section provides installation information for the Station Message Detail Recording equipment which includes the nine track version, the direct output version and their associated output peripheral devices.

2. DOCUMENTATION

SD-1E449	SMDR
SD-1E443	201S Processor Interface Circuit
SD-1E480	201L PBX System Schematic
ED-1E367	201L PBX Cabling Information
COD	201L or 201S Customer Order Document

3. REQUIREMENTS

3.1 A Dual Data Channel circuit pack (LC34B) must be installed in the Dimension® 400 control carrier slot number 32 with data link circuit "0" strapped for the high speed option (refer to dual data channel assignment section of the associated COD).

3.2 A Data Control circuit pack (LC171B) must be installed in the Dimension® 2000 PBX control carrier slot 31 with its

3.2 data link circuit strapped for the high speed data transfer option (refer to the Dual Data Channel Assignment section of the associated COD).

4. BASIC SMDR CABINET CABLING

4.1 Connect a C2B cable (200 feet or less) from connector CX03 (Dimension® small) or BX07 (Dimension® large) on the right side of the control carrier to Connector SR01 on the right side of the SMDR carrier (see figure 1).

4.2 When ever the 724A panel is used, the connection of paragraph 4.1 above must be made as follows (see figure 2):

(a) Connect a C2A cable from connector CX03 (Dimension® small) or BX07 (Dimension® large) on the right side of the control carrier. Route the free end of the C2A cable through the 46M cable tie on the wall mounted clamp and secure. Terminate the raw end of the cable to the 724A panel.

(b) Select a second C2A cable and connect to SR01 on the right side of the SMDR carrier. Route the free end of the second cable through the opening in the bottom rear or upper right-hand corner of the SMDR back panel. Terminate the raw end at the 724A panel and in one-to-one correspondance with the single ended cable terminated in item (a) above. The C2A cables used for these connections must not exceed 100 feet in length each.

5. PAPER PRINTER BASIC CONNECTIONS

5.1 Place the Paper Printer in its permanent selected position but not more than five cable feet from the SMDR carrier assembly. Assure that the selected Paper Printer position is in power cord length of a fused 117 volt AC receptacle that is not under control of a wall switch. For a more distant placement of this output device refer to paragraph 8.0.

5.2 Connect the printer data cord to connector SX01 on the right side of the SMDR carrier assembly (see figure 1).

5.3 Connect the printer power cord to the nearby 117 volt AC receptacle identified in paragraph 5.1 above.

6. PAPER TAPE PUNCH BASIC CONNECTIONS

6.1 Place the Paper Tape Punch in its permanent selected position but not more than five cable feet from the SMDR carrier assembly. Assure that the selected Paper Tape Punch location is in power cord length of a fused 117 volt AC receptacle that is not under control of a wall switch. For a more distant placement of this output device refer to paragraph 8.0.

6.2 Connect the Paper Tape Punch data cord to connector SX02 on the right side of the SMDR carrier assembly (see figure 1).

6.3 Connect the tape punch power cord to the nearby 117 volt AC receptacle identified in paragraph 6.1 above.

7. MAGNETIC TAPE CARTRIDGE RECORDER BASIC CONNECTION

7.1 Place the Magnetic Tape Cartridge Recorder in its permanent selected position but not more than five cable feet from the SMDR carrier assembly. Assure that the selected Tape Cartridge Recorder location is in power cord length of a fused 117 volt AC receptacle that is not under control of a wall switch. For a more distant placement of this output device refer to paragraph 8.0.

7.2 Connect the Cartridge Recorder data cord to connector SX03 on the right side of the SMDR carrier assembly (see figure 1).

7.3 Connect the Cartridge Recorder power cord to the nearby 117 volt AC receptacle identified in paragraph 7.1 above.

8. CONNECTIONS FOR DISTANT PERMANENT PLACEMENT OF OUTPUT DEVICES

8.1 Whenever the peripheral output devices, of paragraphs 5.0, 6.0 and 7.0 above, require a more distant permanent placement but not more than 600 cable feet, such a connection may be accomplished using two 66E3-25 connection blocks, one M25B cord, two D25D cords and not more than 567 feet of house cable. Make devices connections as follows (see figure 2):

(a) Place the peripheral output device in its permanent selected position but not more than 600 cable feet from the SMDR carrier assembly.

(b) Assure that the selected output device position is in power cord length of a fused 117 volt AC receptacle that is not under control of a wall switch.

(c) Connect the output device data cord to the connector end of one of the two D25D extension cords. Connect the free plug end of this cord to a nearby 66E3-25 connecting block. Note that the combined length of the device cord and the D25D extension cord does not exceed 14 cable feet.

(d) Connect the M25B cord to the appropriate SX connector, on the SMDR carrier, for the output device selected in paragraph (a) above (see TABLE A).

(e) Connect the free end of the M25B cord to the connector end of the remaining D25D extension cord. Locate the remaining 66E3-25 connecting block.

8.1 (f) Connect the free plug end of the D25D extension cords to the remaining 66E3-25 connecting block located in paragraph (e) above. Note that the combined length of the M25B cord and the D25D extension cord does not exceed 19 cable feet.

(g) Interconnect the two 66E3-25 connecting blocks with not more than 567 feet of house cable.

Note: All "Customer Provided Devices" should interface to the SMDR carrier connector SX03 via at least one (1) 66E3-25 connector block (or equivalent), and must not be more distant than 600 cable feet from the SMDR equipment (see figure 2).

9. BASIC SMDR CABINET CABLING TO DUPLICATED COMMON CONTROL SYSTEMS

9.1 Whenever SMDR equipment is to be connected to a Dimension 2000 PBX Duplicated Common Control System, a special cabling arrangement is required as follows (see figure 2):

(a) Select an ED-1E367-11 group 951 or 952 SMDR mult cable.

(b) Connect the mult cable plug end of leg A to connector BX07 on the right side of the control carrier of common control "0".

(c) Connect the mult cable plug end of leg B to connector BX07 on the right side of the control carrier for common control "1".

(d) Select the free connector of the SMDR mult cable and attach to connector SR01 on the right side of the SMDR carrier.

9.2 For distant placement of SMDR equipment from DUPLICATED COMMON CONTROL SYSTEMS, of not more than 200 cable feet, use a C2B cable. Whenever the 724A panel is desired use C2A cables (see figure 2).

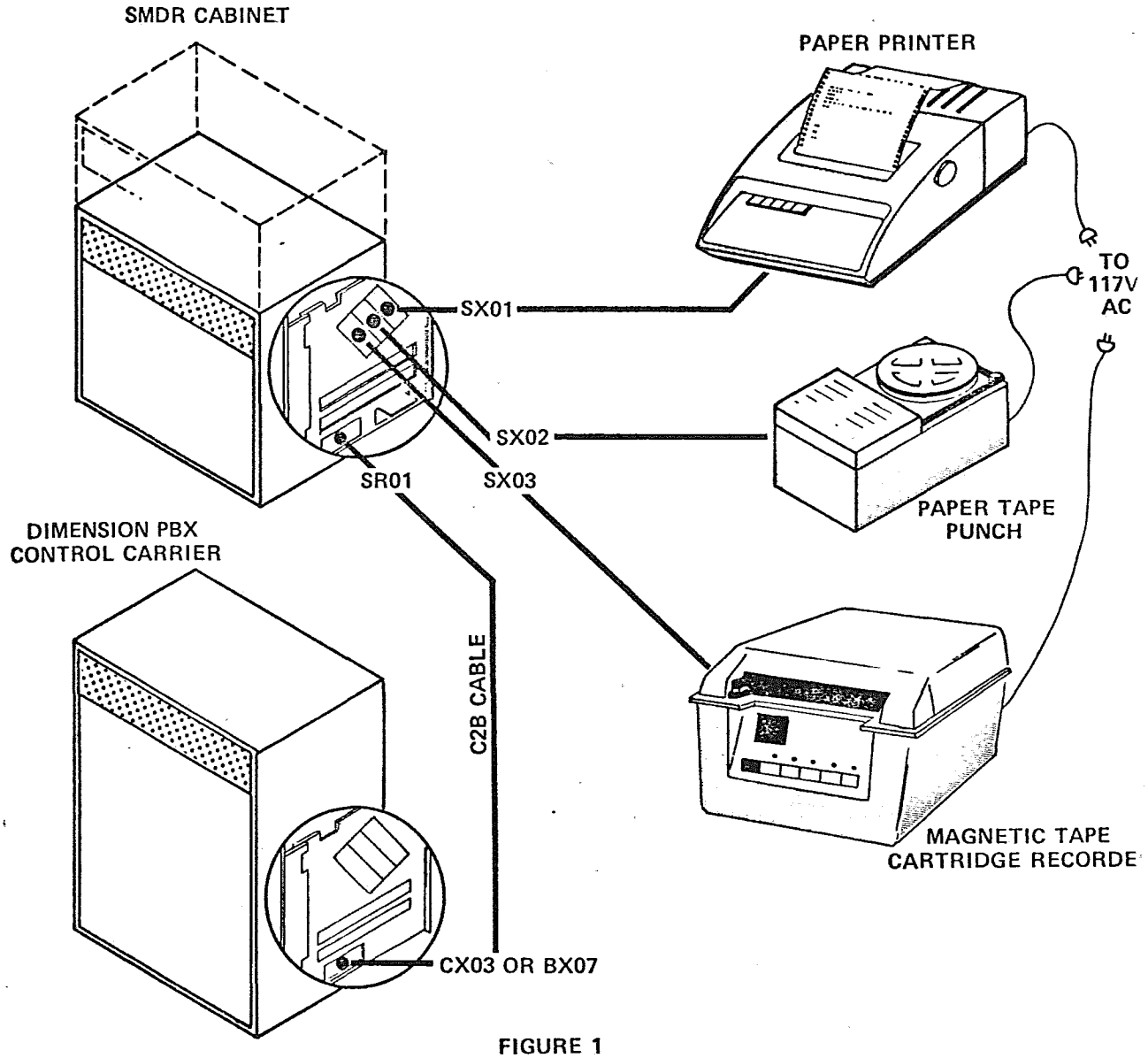

FIGURE 1

TABLE A		
OUTPUT DEVICE	TYPE	SMDR CONNECTOR
PAPER PRINTER	TELETYPE 4310 AAC PRINTER OR EQUIVALENT WITH E1A STANDARD RS232B INTERFACE UNIT	SX01
PAPER TAPE PUNCH	FACIT-ADDDO 4070.0004 WITH A1 OPTION SERIAL TO PARALLEL CONVERTER OR EQUIVALENT	SX02
MAGNETIC TAPE CARTRIDGE RECORDER (CUSTOMER PROVIDED DEVICES)	TEKTRONIX MODEL 4923 OR EQUIVALENT ACCEPTING STANDARD E1A RS232 SERIAL DATA STREAM USING 10-BIT ASCII ENCODED CHARACTERS WITH ODD PARITY	SX03

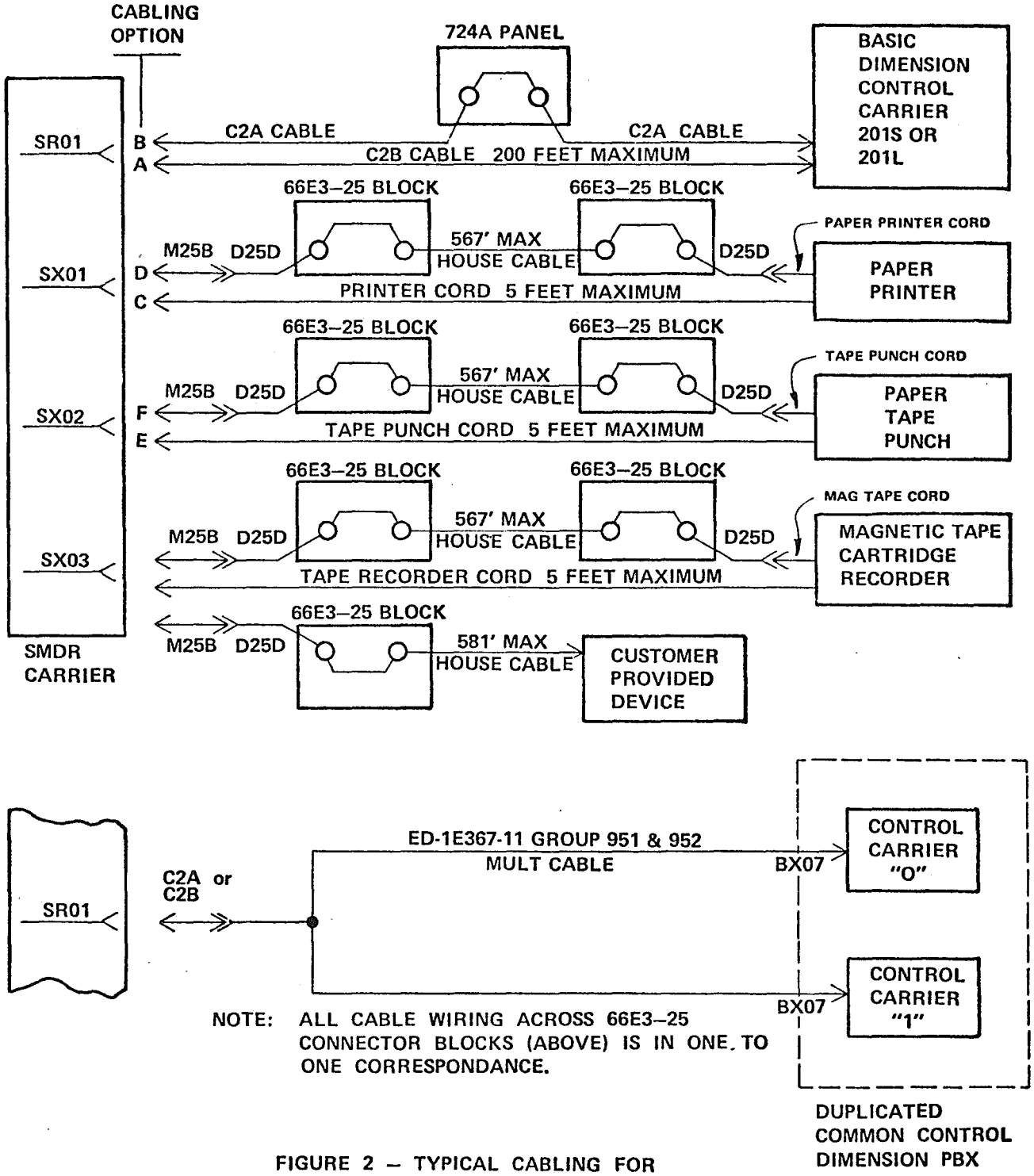

FIGURE 2 – TYPICAL CABLING FOR DUPLICATED COMMON CONTROL SYSTEMS, DISTANT PLACEMENT OF SMDR EQUIPMENT AND ASSOCIATED OUTPUT DEVICES.

Reason for Issue:
New Section

Manager, PBX PECC