EIA DATA TERMINAL SWITCH ASSEMBLY

INSTALLATION

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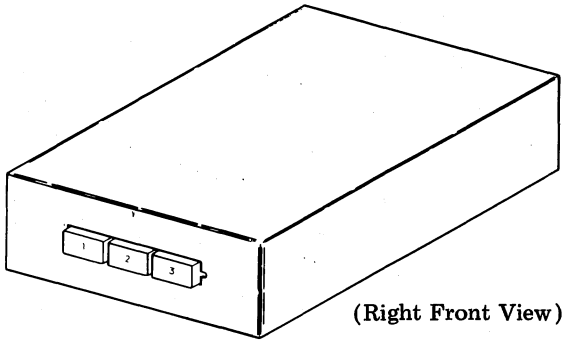


Fig. 1—EIA Data Terminal Switch Assembly

1. GENERAL

1.01 This section provides installation and related information for the EIA (Electronic Industries Association) Data Terminal Switch Assembly. The switch assembly is factory assembled and tested and usually installed with DATASPEED* 40 station equipment.

1.02 Refer to wiring diagrams (WD) and drawings listed in 1.04, and included with the switch assembly, for additional information and electrical connections. After the switch assembly is installed and connected, check electrical and mechanical connections.

1.03 References to left, right, front, and rear are viewed from the operators position facing the pushbuttons (Fig. 1). Standard tools required for installation and routine service are listed in Section 570-005-800. Technical data may be found in Section 582-001-100.

Reference Drawings

1.04 Refer to the following drawings for additional information:

Wiring Information — 9553WD
Assembly Information — TP345630
Schematic Drawing — 1287SD

1.05 Glossary of Terms

ROP — Receive-Only Printer
KD — Keyboard Display
KDP — Keyboard Display Printer
DS — Data Set
MT — Magnetic Tape or Mag Tape
KSR — Keyboard Send-Receive

2. UNPACKING

2.01 The switch assembly is packaged separately with the appropriate drawings and wiring diagrams, and a TP341896 cable assembly (Fig. 2). Unpack carton, inspect assembly for visible damage, and prepare to install.

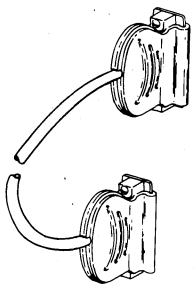


Fig. 2—TP341896 Cable Assembly

*Registered Trademark of AT&TCo.

Prepared for American Telephone and Telegraph Company by Teletype Corporation

2.02 Use the following information for unpacking the switch assembly.

(1) Observe all unpacking instructions and cautions on the carton.

(2) Remove tape covering center seam on carton. Open flaps and remove wiring diagrams, drawings, and TP341896 cable assembly.

(3) Remove switch assembly from carton.

(4) Remove tape and protective material from pushbuttons and connectors.

3. VISUAL INSPECTION

3.01 Visual inspection should be as follows (Fig. 3).

(a) Visually inspect for damaged parts, pushbuttons, connectors, and switch assembly box.

(b) Check for damaged pins in connectors.

(c) Remove bottom plate and check for broken or damaged jumper wires between connector ports and circuit card connectors.

(d) Check circuit cards to be sure they are firmly seated in their connectors.

(e) Check pushbuttons by pressing each one individually. Any pushbutton depressed will be released when either one of the two remaining pushbuttons is depressed.

(f) Replace bottom plate and secure with eight mounting screws.

4. INSTALLATION

4.01 The switch assembly was designed for table top mounting and will fit under a desk phone or data set as shown in Fig. 4; or may be mounted to the equipment in a convenient position as shown in Fig. 5.

4.02 Installation information consists of placing the switch assembly in a convenient location and connecting EIA interface cables from station equipment into the switch ports mounted at the rear of the switch assembly.

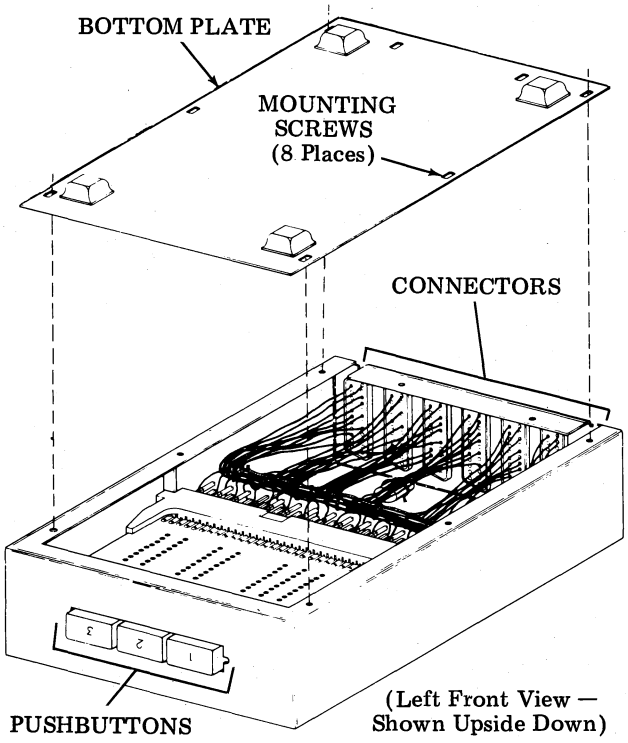


Fig. 3—Switch Assembly With Bottom Plate Removed

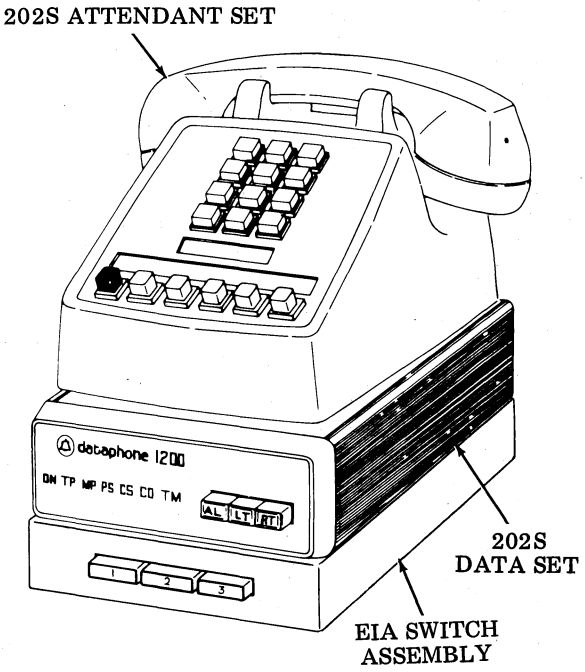
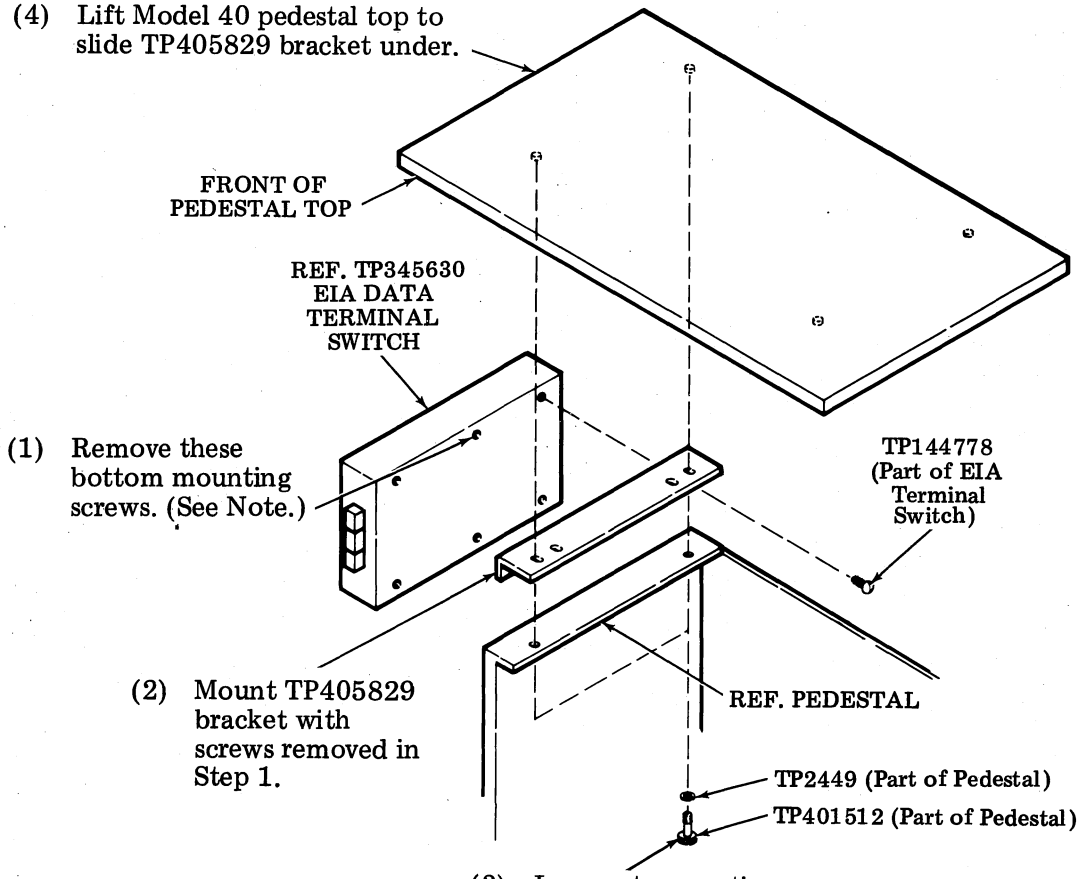


Fig. 4—Typical Switch Assembly Installation



Note: Use right three screws to mount on left side of pedestal, and left three screws to mount on right side of pedestal.

Fig. 5—Mounting the TP345630 EIA Terminal Switch

4.03 Connect the seven-foot interconnecting cable (TP341896, shown in Fig. 2), shipped with the switch assembly, as shown in Fig. 7 and 8. Secure terminal connector screws to locknuts on switch assembly connectors as shown in Fig. 6.

5. CABLING

5.01 Fig. 7 shows a typical interconnecting cable hookup between the terminals, switch assembly, and data set.

5.02 Additional cables (if required) must be provided separately if not included with terminal or data set. The total cable length

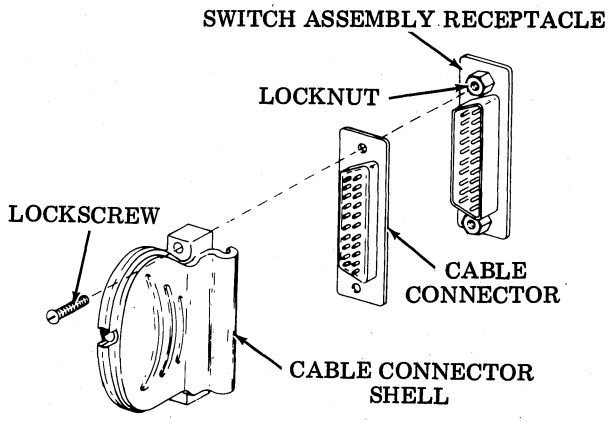


Fig. 6—Terminating Connectors on Switch Assembly

between terminals, switch assembly, and data set must not be over 50 feet in length. The typical interconnecting cable arrangement shown in Fig. 7 corresponds to the basic switch configuration shown in Fig. 8 and 9.

6. CHECKOUT AND TROUBLESHOOTING

Checkout Procedure

6.01 In modes one and three of the basic switch configuration (Fig. 9), printed copy of data shown on the KD display may be obtained by operating the KD PRINT LOCAL key.

6.02 The KD will not accept data from the DS or MT while local printing is taking place. If the PRINT ON LINE key is operated, the ROP will print any data exchanged between the KD, DS, and MT terminals.

6.03 In Fig. 10 configuration, the KDP can produce local copy on the display when the PRINT LOCAL key is operated.

6.04 The KDP will not accept data from the DS or MT while local printing is in progress. Data exchanged between the KD, DS, and MT can be printed by operating the PRINT ON LINE key.

6.05 Modes one and three in Fig. 11 permit transfer of data from the KD to the MT locally when the PRINT LOCAL key is operated. When the PRINT ON LINE key is operated, the MT will copy any data exchanged between the KD, DS, or an auxiliary terminal. The MT required for this arrangement and also the configuration in Fig. 12 shows how to obtain printed copy on Model 33 or Model 35 RO from the MT terminal.

Troubleshooting Procedure

6.06 Troubleshooting consists of making a continuity test on the switch assembly from the connector terminals through the interconnecting switches using appropriate actual and wiring diagrams for the switching circuitry information.

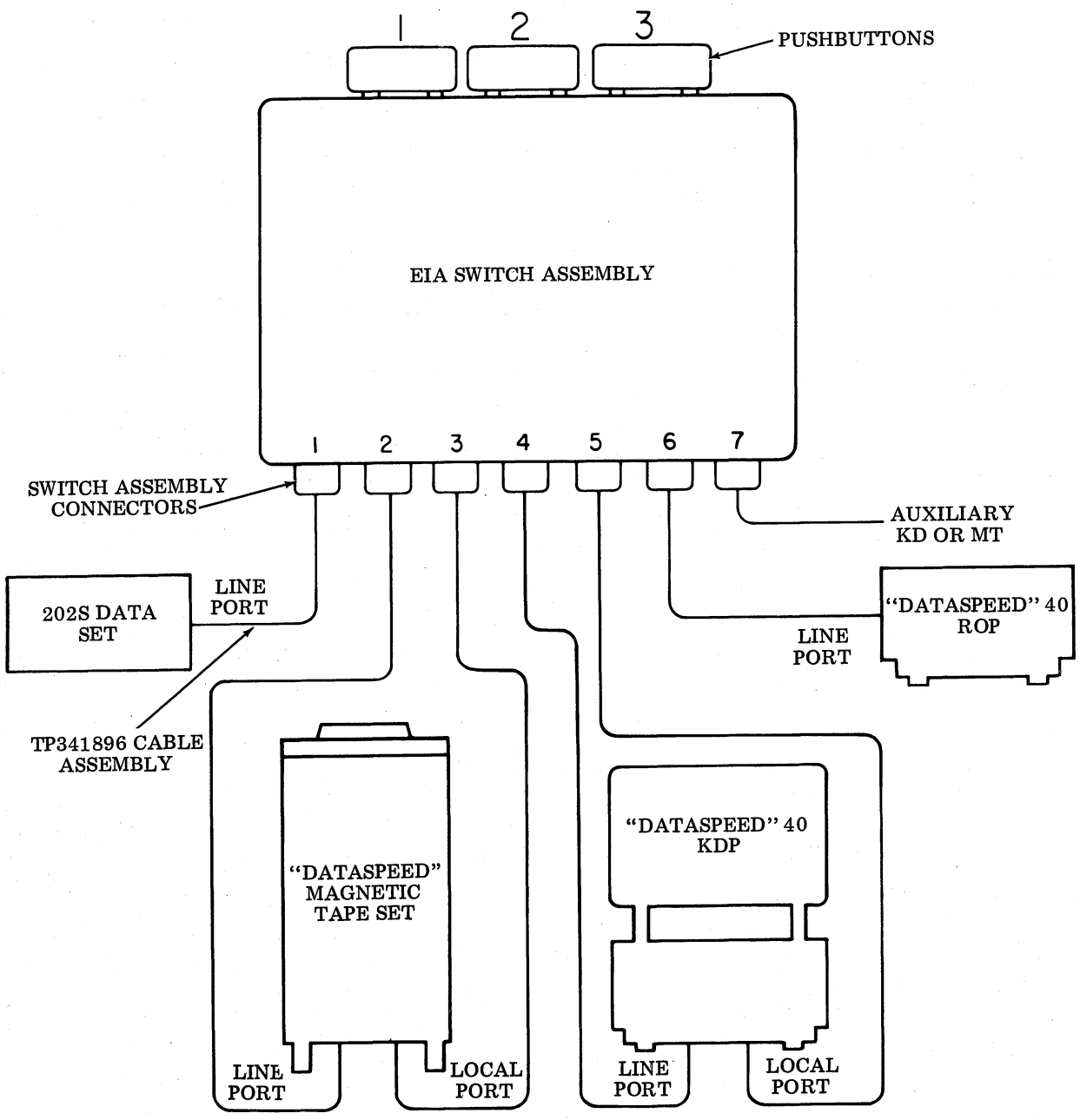
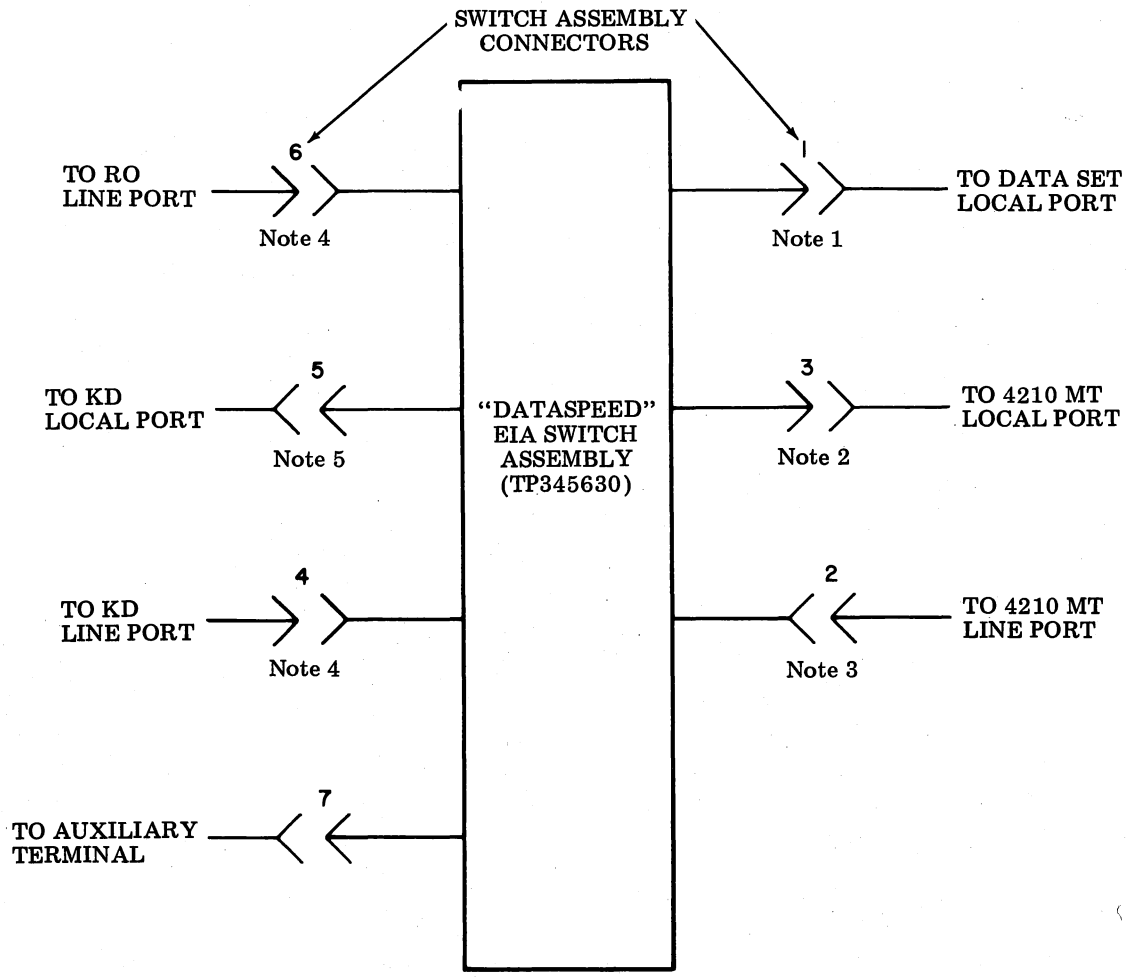


Fig. 7—Interconnecting Cables Between Terminals, Switch Assembly, and Data Set



Note 1: TP341896 cable provided with switch assembly (7 ft)

Note 2: TP344375 cable provided with DATASPEED Magnetic Tape Terminal (8 ft)

Note 3: TP337380 cable provided with DATASPEED Magnetic Tape Terminal (6 ft)

Note 4: TP341896 cable provided with DATASPEED 40 Terminal (7 ft)

Note 5: TP341896 cable ordered separately for this configuration (7 ft)

Fig. 8—Switch Assembly Cabling for a Typical 40 ROP, KD, MT, or DS Station Arrangement

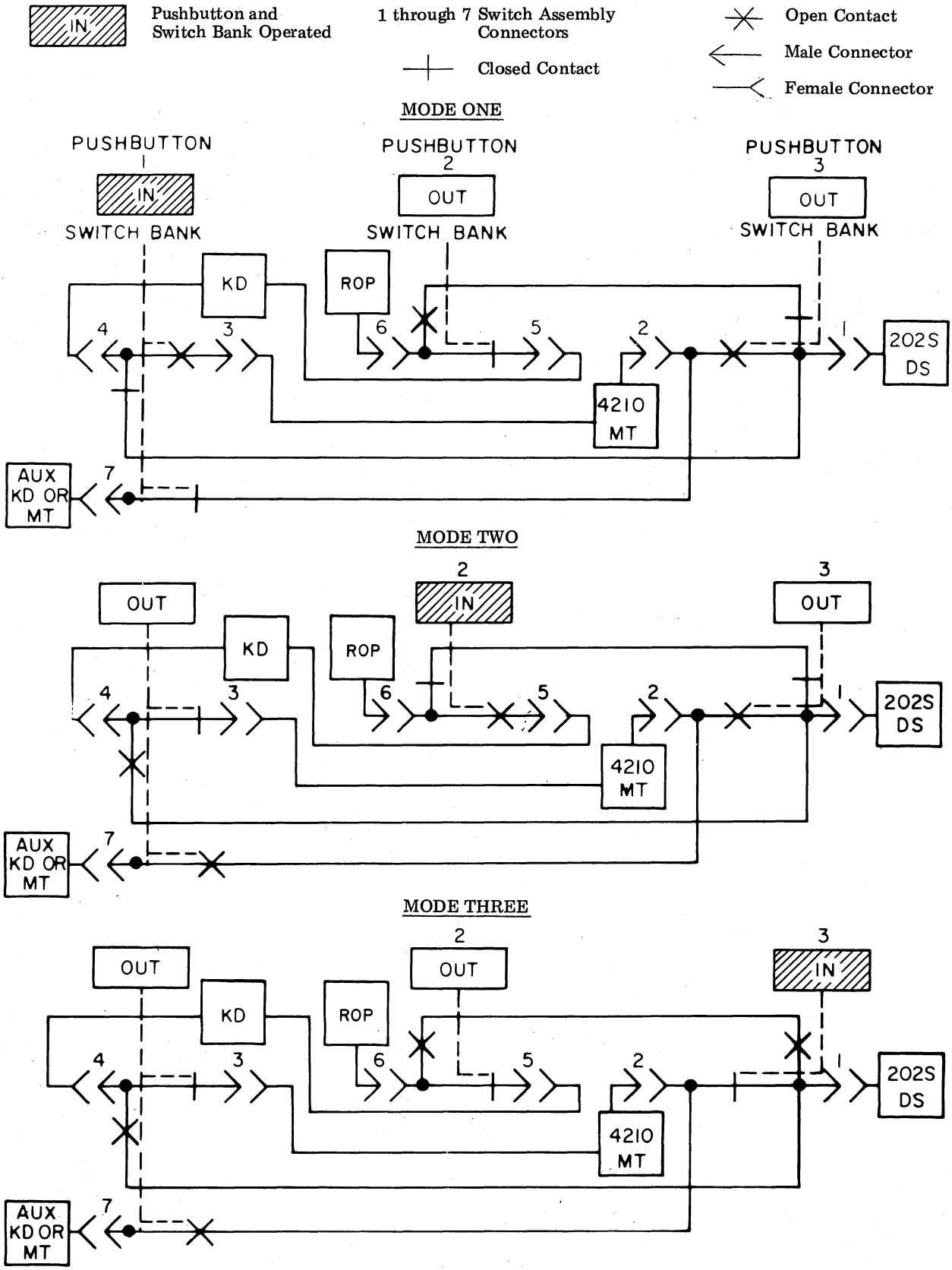


Fig. 9—Basic Switch Configuration With Three Interconnecting Modes

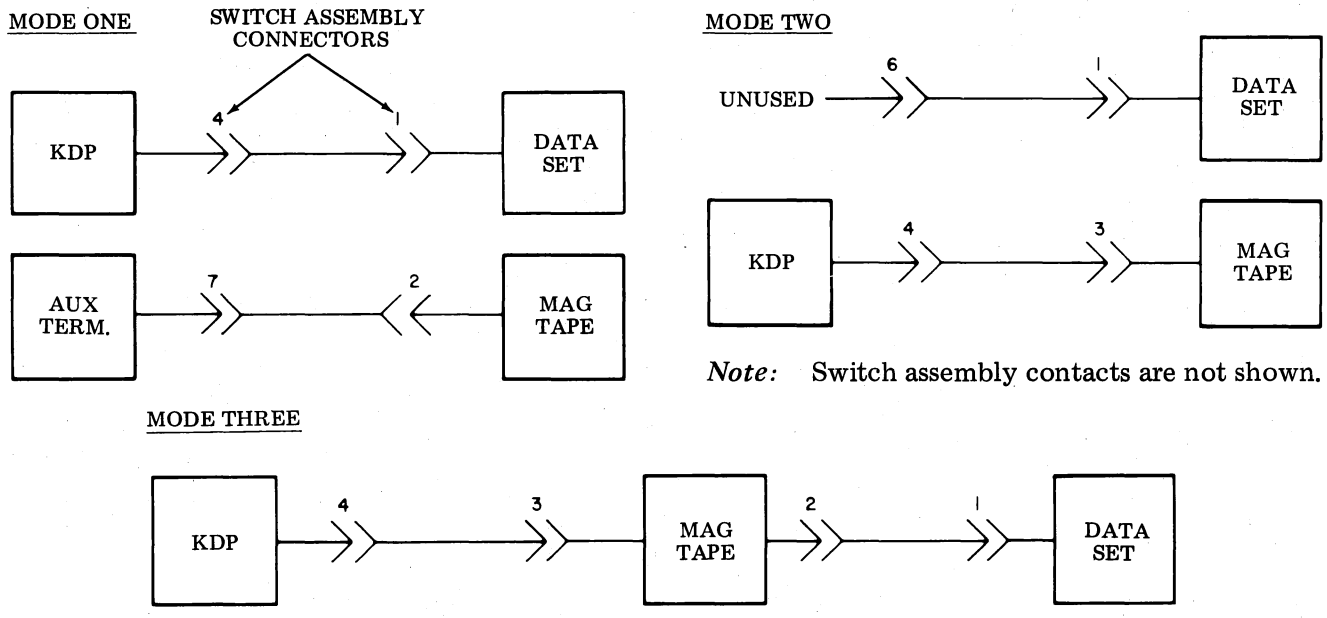


Fig. 10—Magnetic Tape Terminal With DATASPEED 40 KDP and DATASPEED 40 RO With Optional Auxiliary Terminal

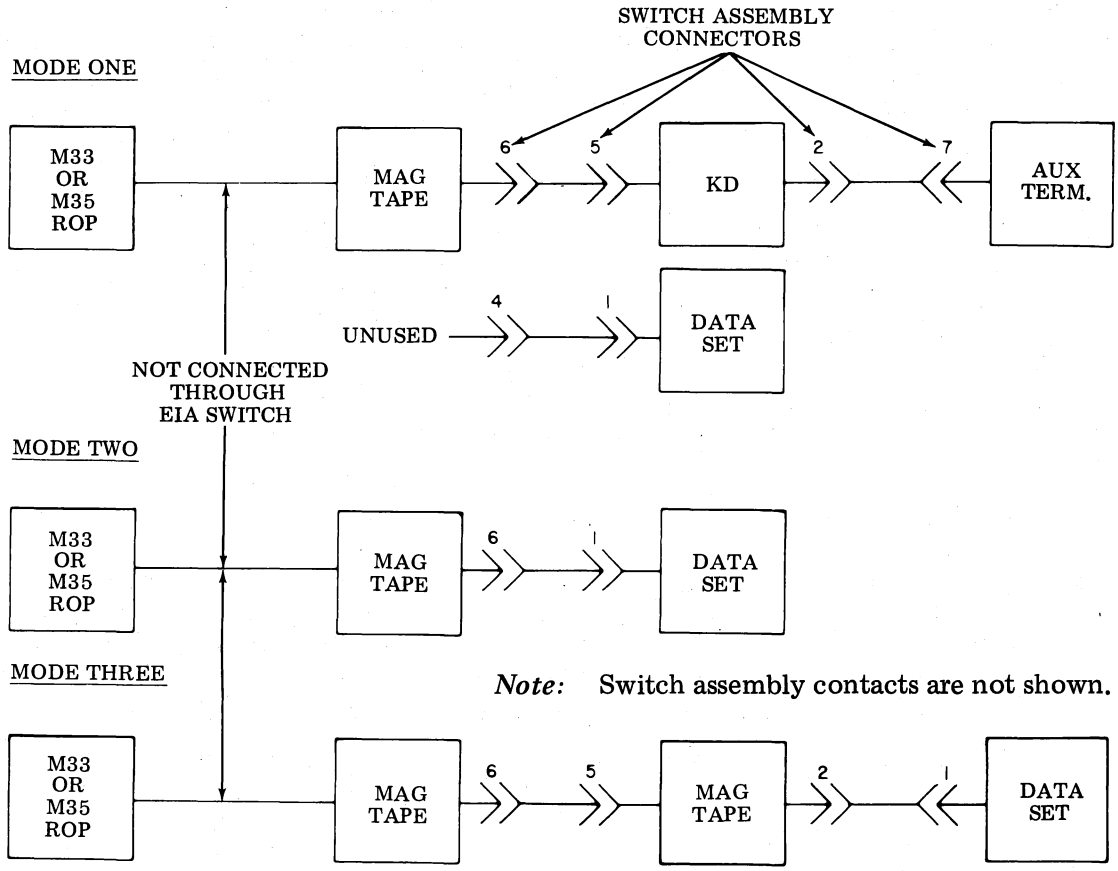


Fig. 11—Magnetic Tape With DATASPEED 40 KD and Model 33 or Model 35 RO Printer With Optional Auxiliary Terminal

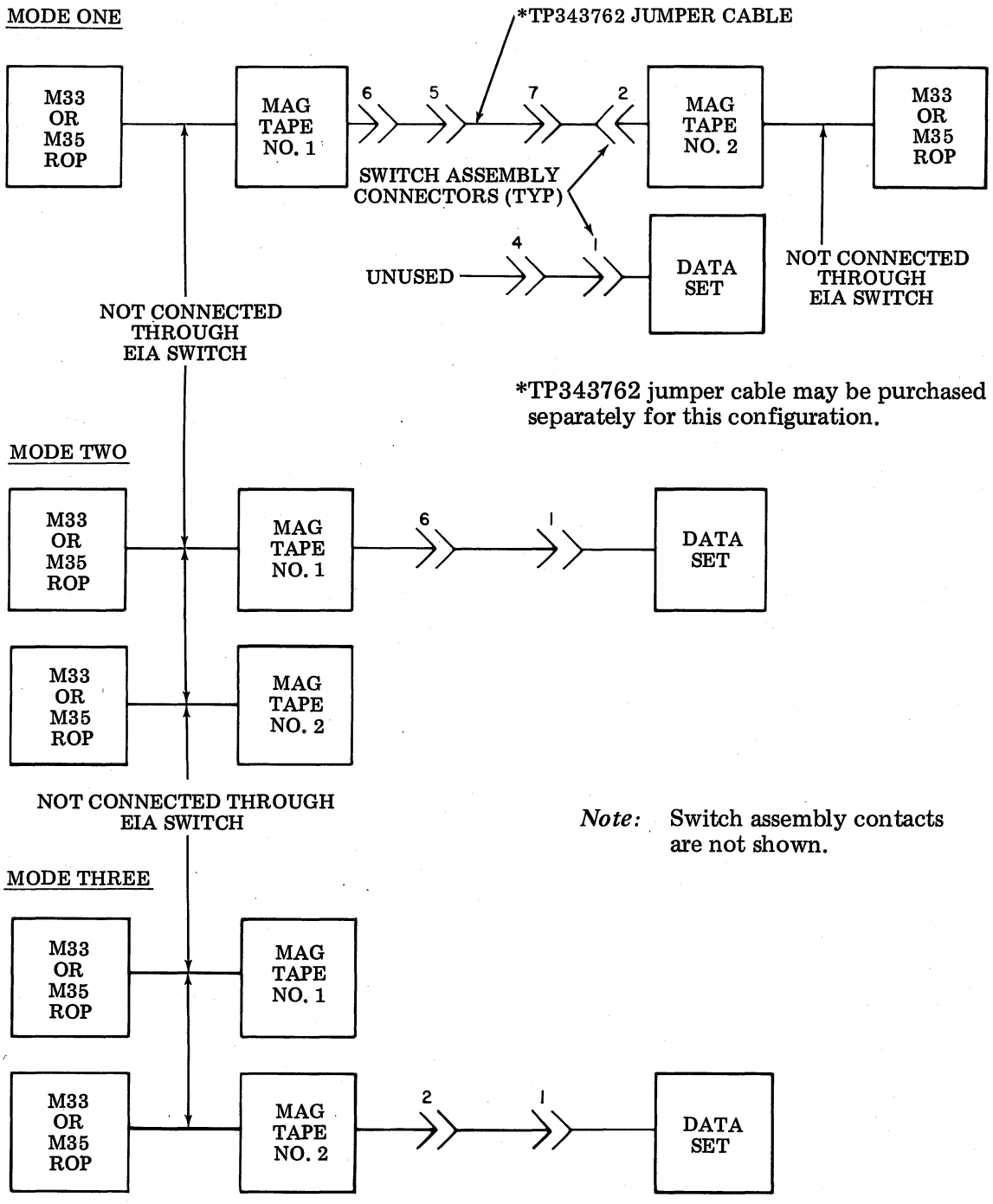


Fig. 12—Magnetic Tape and Model 33 or Model 35 RO Printer