43 TELEPRINTER 8-LEVEL BUFFERED SEND/RECEIVE (BSR) STATION

GENERAL DESCRIPTION

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1. GENERAL

1.01 This section provides a general description of the 43 Teleprinter 8-Level Buffered Send/Receive (BSR) Stations (refer to Fig. 1).

1.02 Whenever this section is reissued, the reason for reissue will be listed in this paragraph.

1.03 When ordering replaceable components, unless otherwise specified, prefix each partnumber with the letters "TP" (ie, TP410055).

2. DESCRIPTION

2.01 The 43 Buffered Send/Receive (BSR) Station consists of a keyboard, matrix printer and controller in a tabletop housing that can also be mounted on an optional pedestal.

2.02 The 43 BSR stations are available with friction feed or tractor feed paper handling capabilities. See Fig. 1 for teleprinter identification.

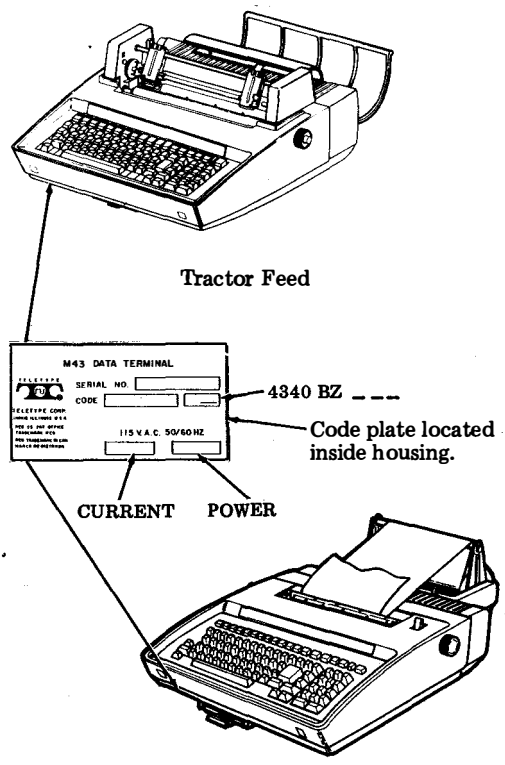

Fig. 1—43 Buffered S/R Stations

Prepared for American Telephone and Telegraph Company by Teletype Corporation

2.03 The station, feature group, EIA cable and documents are ordered in combinations of USOC codes and the material is furnished in separate cartons. The 43 buffered station (factory furnished without a feature group that determines its operating characteristics) must be assembled according to Specification 51055S before the BSR station is installed.

2.04 The 43 BSR stations are furnished with a ribbon cartridge and the stations include a paper holder with mounting hardware (TF) or a paper supply assembly and a roll of paper (FF). An optional paper winder can be attached to friction feed printers and an optional copy holder can be attached to either version.

2.05 The buffers in these stations provide for off-line data preparation (message enter, enter, and store), batch transmission, and line speeds higher than the continuous printing rate.

2.06 Operating speeds are 110, 200, 300, 600, 1200 or 1800 baud using an 8-bit character structure in an asynchronous format with 33/35 ASCII protocol.

2.07 Printout is on a 10 character per inch matrix-style printer. The 80-column friction feed teleprinter uses 8-1/2 inch wide single-ply roll-type paper and the tractor feed teleprinter uses multicopy paper 3-1/2 to 12 inches wide with a maximum of 100 columns. See paragraph 2.10 for paper specifications.

2.08 A 7 by 9 dot matrix produces up-low character shapes for ASCII printing graphics and special symbols for 32 ASCII control codes.

2.09 The teleprinter interface is EIA-type RS-232-C and is intended for use with an external full duplex data set for use on switched network or private lines.

2.10 Paper for the friction feed printer is the standard single-ply, 8-1/2 inches wide, 5 inch diameter roll paper. Paper for the tractor feed printer may range from 3-1/2 to 12 inches wide with standard sprocket hole size and spacing. It may be standard weight, single-ply or multicopy paper consisting of the original and up to two additional copies. Section 570-008-010 provides detailed specifications on the paper and ribbon.

2.11 Inking is provided by a readily replaceable cartridge with ribbon (430035), available from Teletype Corporation.

2.12 The buffered teleprinter operates on 115 Vac ±10 percent at 50 or 60 hertz. Power to the station is approximately 84 watts and is controlled by an on-off rocker switch located at the right rear of the housing.

2.13 The 43 teleprinter 8-level BSR station arrangement consists of a 43 BSR friction feed (USOC 4BF) or tractor feed (USOC 4BG) teleprinter, a feature group (USOC 4BQ), How To Operate Manual 999-300-135, Installation and Removal, Section 574-500-201, and Testing, Section 574-500-502, and one of the following EIA cables:

Description	USOC Assigned
430569 Cable Assembly — 3 ft	WES (8J)
408065 Cable Assembly — 7 ft	WES (4U)
408066 Cable Assembly — 12 ft	WES (87)
408067 Cable Assembly — 25 ft	WES (88)
408068 Cable Assembly — 50 ft	WES (89)

2.14 The friction feed teleprinter weight is 32 pounds and the tractor feed teleprinter weight is 34 pounds.

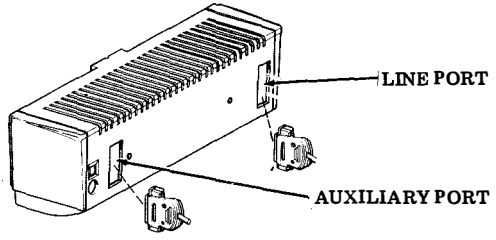

Fig. 2—Interface Ports

3. KEYBOARD

3.01 The keytop arrangement is divided into three major groups according to function or purpose. They are the operational controls and status indicators, the basic keyboard and the numeric/edit pad.

3.02 The operational controls and status indicators for the teleprinter are briefly described in Fig. 3.

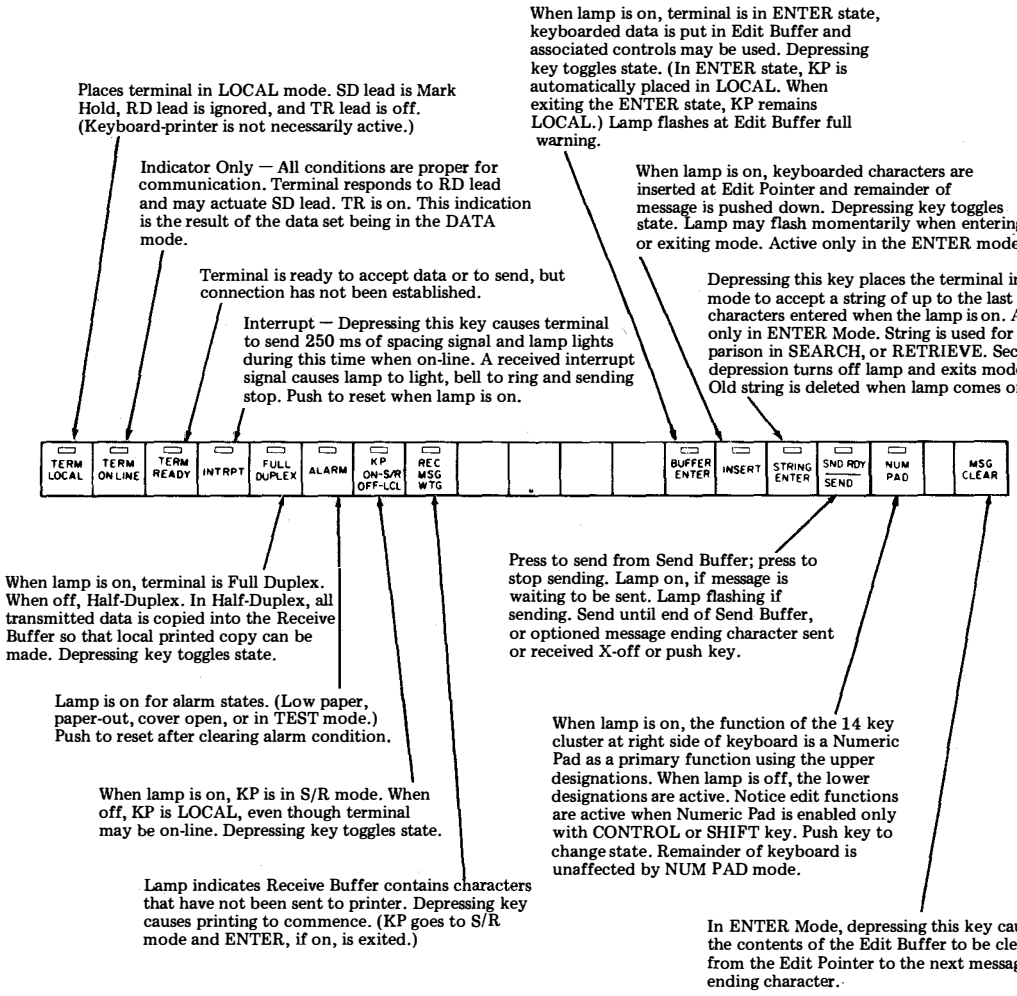

Fig. 3—Operational Controls and Status Indicators

3.03 The basic keyboard layout is shown in Fig. 4 along with brief descriptions on the keyboard printer operation of several special keys.

ESC 1 (CRTL1) — Sets horizontal tab stop at current printer column position.

ESC 2 (CTRL 2) — Clears all horizontal tab stops stored in the volatile memory.

ESC 5 (CTRL 5) — Sets vertical tab stop at current printer line position.

ESC 6 (CTRL 6) — Clears all vertical tab stops stored in the volatile memory.

ESC H — Prepares terminal to resend last message.

ESC l (lower case L) (CRTL 7) — Sets left margin.

ESC x (CTRL 9) — Clears left margin. CTRL 9 also clears right margin.

ESC y (CTRL 3) — Restores terminal to the preset horizontal and vertical tab values.

Note: The escape sequence will be sent on-line or entered in the edit buffer when the control character (if shown in parentheses) is operated locally. Right margin set (CTRL 8) and right margin release (CTRL 0) are local functions only and are not entered in the edit buffer.

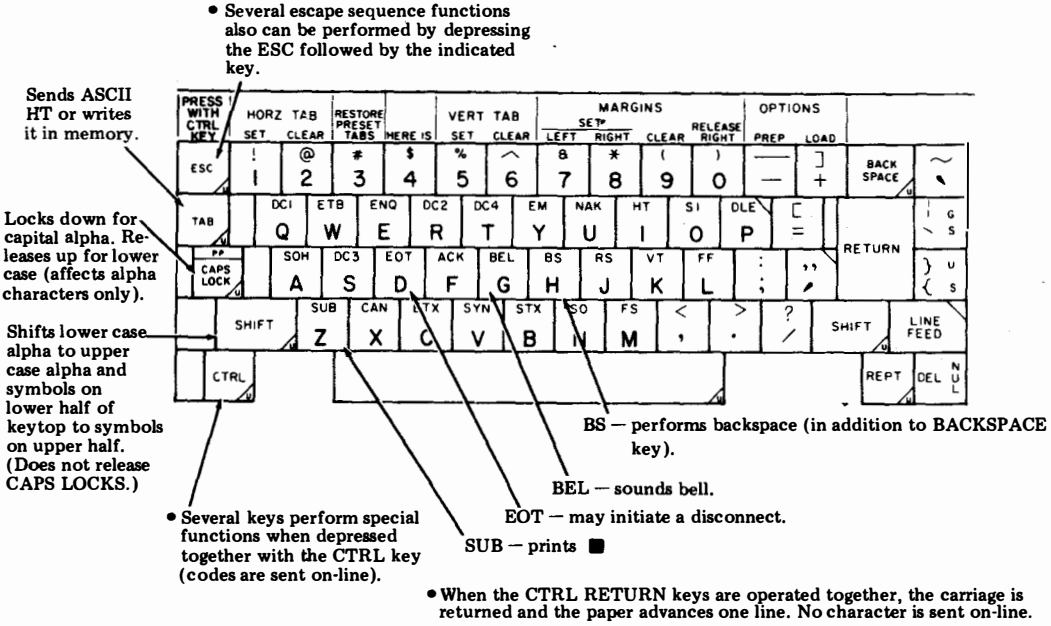

Fig. 4—Basic Keyboard Layout

3.04 The functions of the numeric/edit pad are briefly described in Fig. 5.

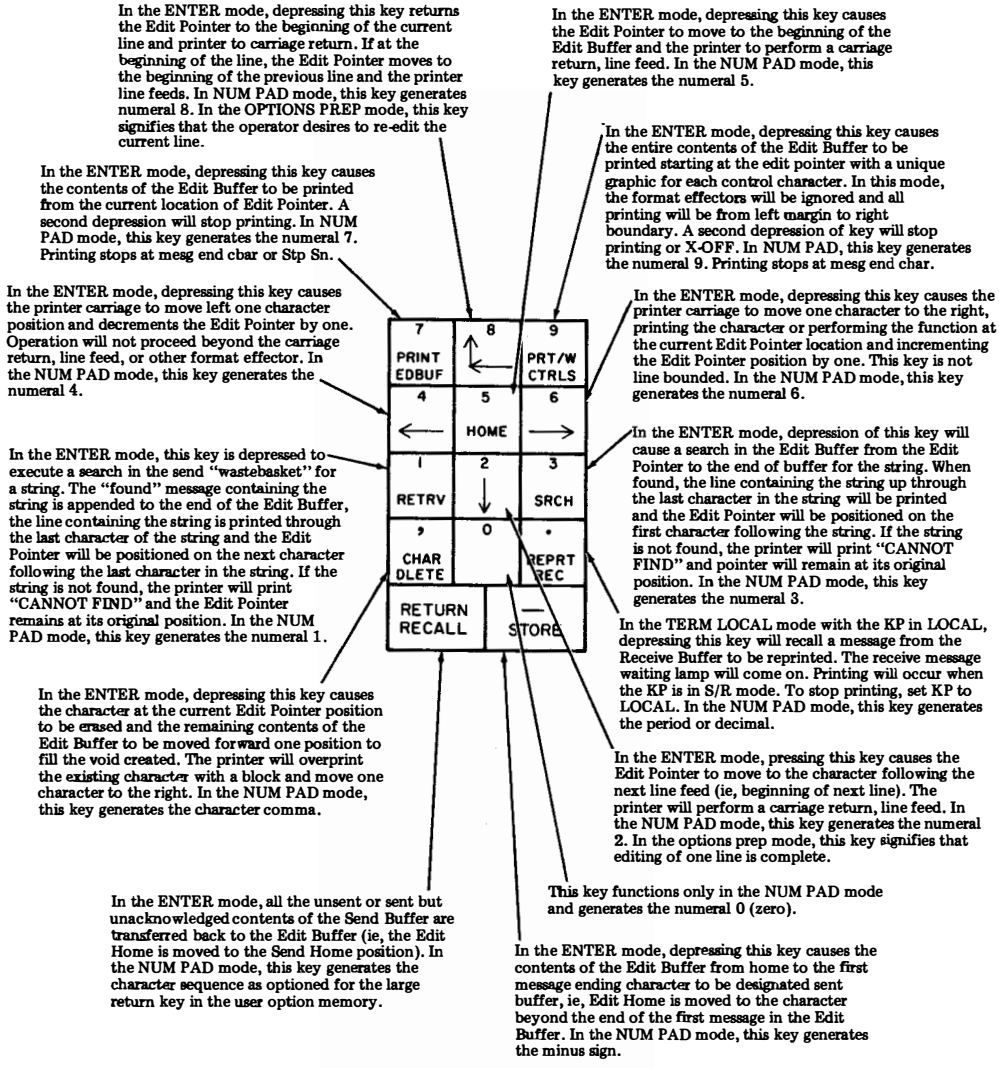

Fig. 5—Numeric/Edit Pad

4. REFERENCES

4.01 How To Operate Manual 999-300-135 includes information on 43 buffered send/receive teleprinter operation, ribbon and paper replacement.

4.02 Section 574-500 series provide all the necessary information for trained craft personnel to install, maintain, option, and, if necessary, service the 43 buffered teleprinter using recommended lists of maintenance spares.