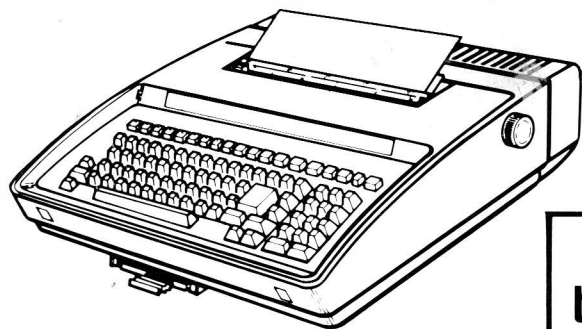




How to operate...



the **43 teleprinter**

8 LEVEL BUFFERED SELECTIVE CALLING STATION

“Warning: This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instructions manual, may cause interference to radio communications. As temporarily permitted by regulation it has not been tested for compliance with the limits for Class A computing devices pursuant to Subpart J of Part 15 of the FCC Rules, which are designed to provide reasonable protection against such interference. Operation of this equipment in a residential area is likely to cause interference, in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.”

IL101

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Note: The Table of Contents for SUPPLEMENTARY OPERATING INSTRUCTIONS is on next page.

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BASIC
OPERATING
INSTRUCTIONS



INTRODUCTION

Your 43 Teleprinter provides for message preparation and sending from a send buffer. Received messages may print as they are received or they may be stored in a receive buffer and may be printed later.


Your 43 Teleprinter may have an auxiliary printer attached to it by a cable located at the rear right corner. If an auxiliary printer is attached, either printer may print a message depending on which one was remotely selected.

If your teleprinter is optioned as a receive-only terminal or as an auxiliary terminal (see OPERATOR AFFECTING OPTIONS, No. 2 and 3, Page 38) it can receive messages but cannot send messages.

The following selected operator procedures are provided in the BASIC OPERATING INSTRUCTIONS section of this manual to assist you in the basic operation of your terminal. Detailed descriptions, as required, are provided in the SUPPLEMENTARY OPERATING INSTRUCTIONS section of this manual.




Always be certain that the power switch is on, paper is installed and the alarm is not on before attempting to operate your terminal. The power to the terminal may remain ON continuously.

To Receive a Message

- Depress  key if not lit.




- Depress  key if not lit.

- A message will print when the terminal is selected to receive and receives a message.

Note 1: If a message was received while the  lamp was off, the  will be on. To print all the messages received, depress the  key.

Note 2: If your terminal has an auxiliary printer, the auxiliary printer will print messages addressed to it provided it is conditioned to receive. Refer to the How to Operate Manual associated with the Auxiliary Printer.

Note 3: If this terminal is optioned as an auxiliary printer (see OPERATOR AFFECTING OPTIONS No. 3 Page 38) it will print received messages addressed

to it provided the  and  keys are lit and the  lamp is off. This terminal cannot send messages.



To Prepare and Send a Message (No Contention)


(See OPERATOR AFFECTING OPTIONS No. 8 Page 38.)

• Depress  key if not lit.

• Depress  key if not lit.

• Type a message in the edit buffer. If a typing error is made, see Simplified Message Edit.

• Depress  key.  key lights.

The message will be sent automatically when the terminal is polled.  key flashes while sending and may go out after message is sent.



To Prepare and Send a Message (Contention)



(See OPERATOR AFFECTING OPTIONS No. 8 Page 38.)

• Depress  key if not lit.

• Depress  key if not lit.

• Type a message in the edit buffer. If a typing error is made, see Simplified Message Edit.


• Depress the  key.  key lights.


• Depress the  key.  key flashes while sending and may go out after message is sent.

Simplified Message Edit

To Overwrite an Error While on the Same Line

Example: THE QUICK BROWN FOZ


The “Z” must be changed to an “X”. Since you are on the same line, depress  key until, after a one second delay, the silver print head pointer is pointing to “Z” in the word “FOZ”.


Depress  key. “X” overtypes “Z”.


Depress  ,  keys. The corrected message prints out “THE QUICK BROWN FOX”.

To Delete an Error While on the Same Line

Example: THE QUICK BROWN FOOX


One of the "O"s must be deleted. Since you are on the same line, depress  key until, after a one second delay, the silver print head pointer is pointing to one of the "O"s in the word "FOOX".

Depress  key. The "■" symbol prints over the "O".


Depress  ,  keys. The corrected message prints out "THE QUICK BROWN FOX".


To Insert a Character While on the Same Line

Example: THE QUICK BROWN FX

An "O" must be inserted in the word "FX". Since you are on the same line, depress  key until, after a one second delay, the silver print head pointer is pointing to the "X" in the word "FX".

Depress the  key. Lamp lights.

Depress the  key. "●" overtypes "X".

Depress the  key. Lamp turns off.


Depress  ,  keys. The corrected message prints out "THE QUICK BROWN FOX".

To Search for a Location Within a Message


Example: THE QUICK (return-line feed)
BROWN FOZ (return-line feed)
JUMPED OVER

The "Z" in "FOZ" must be changed to an "X".

Depress  key.



Depress  key. Lamp lights.

Type "N FO".

Depress  key. "BROWN FO" prints out.

The print head is now in the position to change the "Z".

Depress  key. "X" prints.

Depress  ,  keys. The corrected message prints out: THE QUICK
BROWN FOX
JUMPED OVER

SUPPLEMENTARY

OPERATING

INSTRUCTIONS



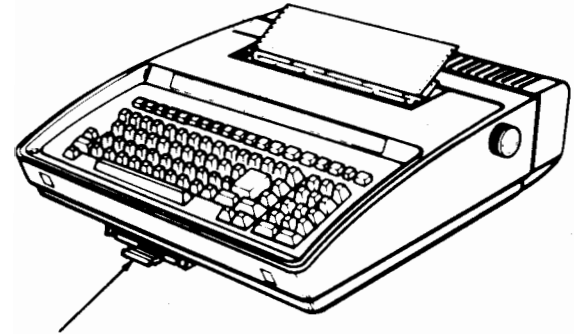
INTRODUCTION

The 43 Teleprinter provides for message preparation, transmission, and reception of data in an asynchronous or isochronous multipoint private line system utilizing ASCII code. An auxiliary port located at the right rear of the terminal may have an auxiliary printer attached for receiving messages only (cannot send from auxiliary port).

The 43 Teleprinter may also be optioned to perform as a receive-only terminal (data cannot be sent on-line) for operation in a multipoint private line system. See OPERATOR AFFECTING OPTIONS No. 2 Page 38 and RECEIVE-ONLY OPERATION Page 20.

The 43 Teleprinter may also be optioned to perform as an auxiliary printer and be connected to the auxiliary port of another 43 Teleprinter. See OPERATOR AFFECTING OPTIONS No. 3, Page 38 and AUXILIARY TERMINAL OPERATION Page 20.

Operating speeds at the line port, located at the left rear of the terminal, are 110, 300, 600, 1200 or 1800 baud asynchronous or up to 2400 baud isochronous. 2400 baud asynchronous is available only if the terminal is optioned to operate as an auxiliary printer. Auxiliary port line speeds are 110, 300, 1200 or 2400 baud asynchronous only.



DIRECTORY CARD

On tractor feed printers, messages with up to 100 characters per line are printed on from 3 inch to 12 inch wide sprocket feed paper. The paper may be fed from a supply box or limited amounts can be placed in a paper holder that clips on the rear of the tractor feed teleprinter.

On friction feed printers, messages up to 80 characters per line are printed on 8-1/2 inch wide roll type paper. The roll is held in a support attached to the rear of the teleprinter.

Keyboard data (or message) is stored in the send buffer and automatically, or manually in some cases, sent on-line. If necessary the data can be recalled for editing.

INTRODUCTION (Contd)

If the Keyboard-Printer (KP) is not available (performing local functions) when messages are received, the messages are stored in the receive buffer, or auxiliary receive buffer if the optional auxiliary printer is not available, until the printer becomes available.

Messages received in the receive buffer can be copied into the edit buffer for editing and/or resending.

A table of options which affect operation of this terminal is located in the operator affecting options section of this manual. See Page 35. Become familiar with the options of this terminal because the operating procedures in this manual are affected by the terminal options.

Refer to the Teleprinter Supplies and Maintenance section of this manual for paper and ribbon replacement information. See Page 21.

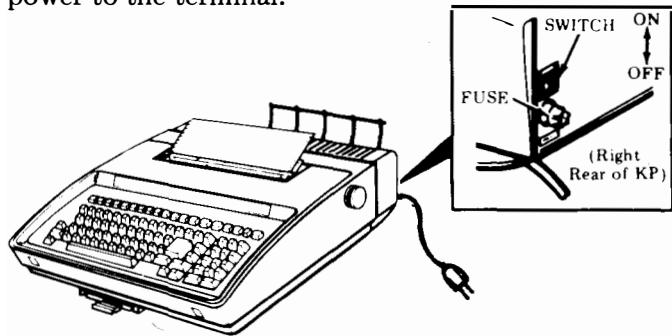
A pull-out "Directory" card, is located under the front bottom edge of the keyboard. One side of the card provides installation and maintenance information and the other side provides a directory for frequently used telephone numbers and extensions.

POWER TURN ON

The power switch is located at the right rear of the teleprinter.

Terminal Power

With the power cord plugged in, depress the upper half of the ON-OFF rocker power switch to turn on power to the terminal.



- The TERM ON LINE and PRINT REC MSG lamps normally light when power to your terminal is first turned on. If the terminal prints the message below, see the station manager or supervisor.

```
****  
DEFAULT  
OPTIONS  
LOADED  
****
```


Memory Power


Power to the memory is on when power to the terminal is on.


- Volatile Memory (Data) — Data stored in the memory will be retained indefinitely unless the power cord is unplugged, the switch is turned off, or until it is intentionally cleared.
- Immediately after the terminal is installed, power should be turned on and remain on for at least 10 hours. This will fully charge the internal battery used to retain the installer programmable options for at least 17 days when power is turned off. This need be done only one time unless power to the terminal remains off for many days.


CONTROLS AND INDICATORS


This section describes the purpose and operation of most controls and indicators on the 43 Teleprinter. Nearly all the operating controls are across the top of the keyboard. Those on the keyboard are described in the keyboard section.



 May be disabled. See OPERATOR AFFECTING OPTIONS No. 1 Page 38. Depression of the key causes the terminal to go off line. Terminal cannot receive or send messages. Key must be lit to load options.



 Depression of key causes lamp to light. Terminal can now send and receive messages. If lamp flashes a trouble is present and messages cannot be sent or received.

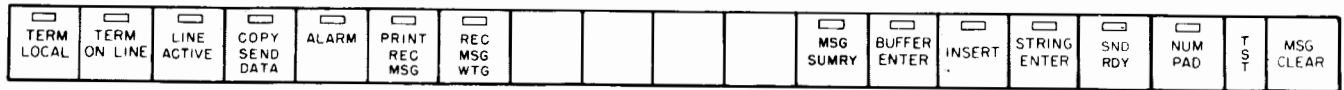
 When lit indicates characters have been sent or received within the last 10 seconds. If the terminal is optioned for contention operation, depressing the key puts in a bid to send a message if

the  key is lit. See OPERATOR AFFECTING OPTIONS No. 8 Page 38 .

 When lamp is lit, all sent messages are copied into the receive buffer. Depressing key turns the lamp on or off unless optioned for copy sent data. See OPERATOR AFFECTING OPTIONS No. 4 Page 38.

 Lamp lights due to an alarm condition (ie, low paper, paper-out, cover open). If lamp does not go out with correction of the alarmed condition, depress the  key.


 When lamp is on, all the messages in the receive buffer will print. If lamp is flashing, only one message in the receive buffer prints (see REC MSG WTG key). If lamp is off keyboard can type locally to the printer or into the edit buffer if  key is lit. Depressing changes the state of the key.



CONTROLS AND INDICATORS (Contd)




Lamp turns on when receive buffer contains messages waiting to be printed. Depressing key causes one message in the receive buffer

to print,  key to flash and terminal to go to the edit mode. When all messages have been printed, lamp turns off.



When depressed, a short summary of every message in the send and receive buffers (edit, receive, send and was sent buffers in that order) are printed. A second depression will cause printing

to stop. Active only if  key is off. See OPERATOR AFFECTING OPTIONS No. 12 Page 38 for the number of characters that print for the summary.



Depression causes the keyboard printer (KP) to go to the edit mode, even though the terminal may be on-line. In the edit mode, messages can be entered in the edit buffer, corrected as necessary and then stored for transmission (see EDIT MODE Page 30). **Lamp flashes when edit buffer is nearly full.** See OPERATOR AFFECTING OPTIONS No. 13 Page 38.



Active only in the Edit mode. Depressing key turns lamp on. When lamp is on, keyboard characters are inserted in the edit buffer at the current buffer location. Any data following the inserted data will be shifted toward the end of the edit buffer as characters are inserted until the edit buffer is full. Depress key to end insertion mode.



Active only in the Edit mode. Depressing key clears any previously entered string and causes the terminal to accept a new string of characters. The string is used for comparison in the search, retrieve or retrieve receive mode. The bell rings indicating no more characters can be entered into the string. Depress key to turn off lamp and exit mode. Mode is also exited when the search, retrieve or retrieve receive function is executed. See OPERATOR AFFECTING OPTIONS No. 12 Page 38 for the maximum number of characters that can be used in the string enter mode.



Lamp is lit if a message is waiting to be sent. Lamp flashes while sending. See To Store One or More Messages for Sending Page 33.



When lamp is turned on by depressing the key, the 14- key cluster at the right side of the keyboard functions primarily as a numeric pad. The return key in the numeric pad performs the same function as the large return key on the keyboard. See OPERATOR AFFECTING OPTIONS No. 15 Page 88 for the function (s) of this key. With the lamp off, the lower designations (edit functions) are active.

Notes: With the NUM PAD lamp on, edit functions can be performed by use with the CTRL or SHIFT keys.

In Num Pad mode, RETURN functions the same as the large RETURN key on the keyboard. (See OPERATOR AFFECTING OPTIONS No. 15 Page 88 for the function (s) of this key.



7 PRINT EDBUF	8 ↕ ←	9 PRT/W CTRLS
4 ←	5 HOME	6 →
1 RETRV	2 ↓	3 SRCH
· CHAR DELETE	0 RETRV REC	• LINE DELETE
RETURN RECALL		— STORE

Remainder of the keyboard is unaffected by NUM PAD mode.

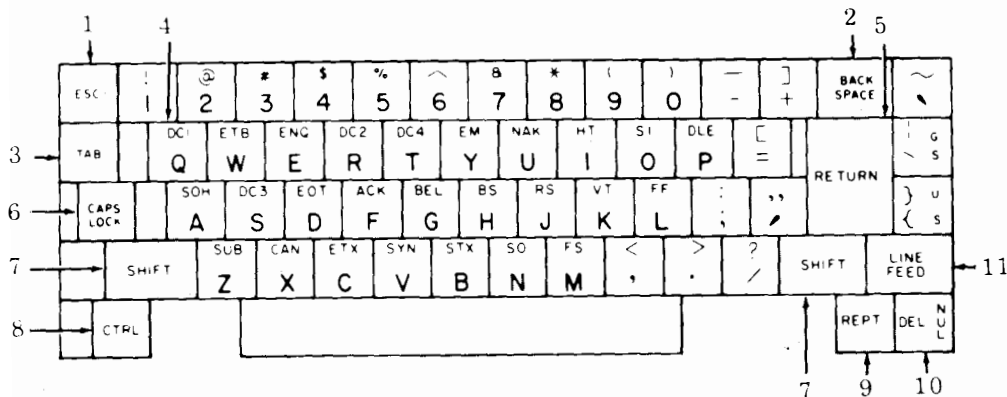


Active only in Edit mode. Depression causes the contents of the edit buffer to be cleared from the current location in the buffer through the next message-ending character or the end of the edit buffer if no message-ending character is encountered.

KEYBOARD

The keyboard is active whenever the  key is not lit. If the  key is lit, characters will be entered into the edit buffer.

1. ESC — Depress key momentarily, then the desired key to perform escape sequence functions or write it into the edit buffer. See SENDING AND RECEIVING ESCAPE (ESC) SEQUENCES Page 37.
2. BACK SPACE Causes the printing position to move one printing space backward on the same printing line. Writes a backspace character into the edit buffer.
3. TAB — Writes the character into the edit buffer. If the horizontal tab option is activated, the printer carriage will move to the next tab stop. If no tab stops are set, carriage will move to the right boundary of the printer and perform a carriage return-line feed function. See Horizontal Tabulation Page 18.
4. DC1 — DC1 and other special control character keys (keys with abbreviations at top or right side of key) when depressed together with the CTRL key print, perform special functions or write the character in the edit buffer. See SPECIAL CONTROL CHARACTERS Page 19.



KEYBOARD (Contd)

5. RETURN Returns printer carriage to the left margin of the current line unless otherwise optioned. See OPERATOR AFFECTING OPTIONS No. 15 Page 38 for the function(s) performed by depressing this key. When the CTRL and RETURN keys are operated together, the carriage is returned and the paper advances one line regardless of how key is optioned and no character is written into the edit buffer.
6. CAPS LOCK — Keyboard produces capital alpha characters when key is locked down. Produces lower case alpha characters when key is released up (affects alpha characters only).
7. SHIFT Performs normal shift function (does not release CAPS LOCK mode).
8. CTRL Depress and hold while selected key is depressed to perform special control functions. This key is also used during local operations for setting margins, tabs (see KEYBOARD-PRINTER (KP) OPERATION Page 17).
9. REPT -- This key provides the attendant the ability to cause any key on the keyboard, keyboard edit cluster and numeric pad to repeat by holding the REPT key and the desired key depressed at the same time.
10. DEL NUL — Depression of this key alone generates the ASCII DELETE code sometimes used as a time-fill character. Depression of this key together with the CTRL key generates the ASCII NULL character that may also serve as a time or media-fill character.
11. LINE FEED — Advances the paper one line for each depression if so optioned. See OPERATOR AFFECTING OPTIONS No. 16 Page 38 for the function of this key.

KEYBOARD EDIT CLUSTER

These keys along with INSERT, STRING-ENTER and MSG CLEAR function as edit controls when the



lamp is on and the

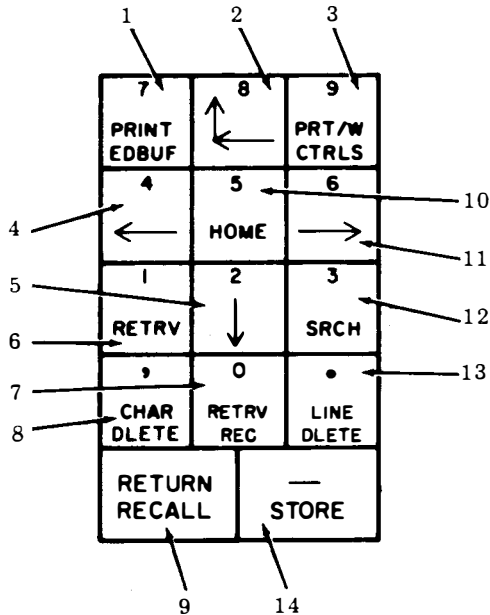


lamp is off. If the



lamp is on, the CTRL or SHIFT key must be

depressed and held down while the desired edit control key is selected. The edit key functions are as follows:



1. PRINT EDBUF — Causes the contents of the edit buffer to be printed, or functions to be performed one message at a time from the current buffer location. Depress key again to stop printing message or to print next message.
2. ↶ — The first depression of this key causes a return to the beginning of the current line in the buffer and the printer to carriage return. When operated at the beginning of the line, the current buffer location moves to the beginning of the previous line in the buffer and printer will line feed.
3. PRT/W CTRLS — Same as Print EDBUF except that special symbols are printed instead of the associated function being performed. (See SPECIAL CONTROL CHARACTERS Page 19.)
4. ← — The printer carriage and the current buffer location move one character position to the left on the same line. The printer carriage will not move on control characters but location in buffer will be moved back. Movement is limited by all format effectors.
5. ↓ — The current location is moved to the beginning of the next line (ie, character following the next line feed). The printer will perform a carriage return-line feed.

KEYBOARD EDIT CLUSTER (Contd)

6. RETRV — This key executes a search for a group of characters (string) in the was sent buffer. If the string is found the message is copied into the edit buffer. See To Retrieve a Message for Editing (Was Sent Buffer).
7. RETRV REC This key executes a search for a group of characters (string) in the receive buffer. If the string is found the message is copied into the edit buffer. See To Retrieve a Message for Editing (Receive Buffer).
8. CHAR DELETE — Causes the character at the current buffer location to be erased. The remaining contents of the edit buffer will move forward one position to fill the void created. The printer will overprint the existing character with a block (■) and move one character to the right, unless the character is a control character. (See SPECIAL CONTROL CHARACTERS Page 19.)
9. RECALL — Transfers all unsent or sent but unacknowledged messages from the send buffer to the edit buffer. See To Recall a Message for Editing (Send Buffer) Page 34.
10. HOME — Returns the current edit buffer location to the beginning of the edit buffer (edit home). The printer performs a carriage return-line feed.
11. → — Causes the buffer location to move within a message one character to the right, printing the character or performing the function at the current buffer location.
12. SRCH — Executes a search in the edit buffer for a string of characters from the current buffer location to the end of the edit buffer. See To Search for a Message for Editing (Edit Buffer).
13. LINE DELETE — Causes the current line in the buffer to be deleted from (line feed to line feed). The remaining contents of the edit buffer will move forward to fill the void created.
14. STORE — Transfers the contents of the edit buffer to the send buffer one message at a time. The message stored is the message at the current buffer location. See To Store One or More Messages for Sending.

Note: Returning messages to the send buffer is accomplished one message at a time by use of the STORE key.

Note: If a key is depressed and the function cannot be performed, an alarm bell will ring.

KEYBOARD-PRINTER (KP) OPERATION

To operate your KP locally the



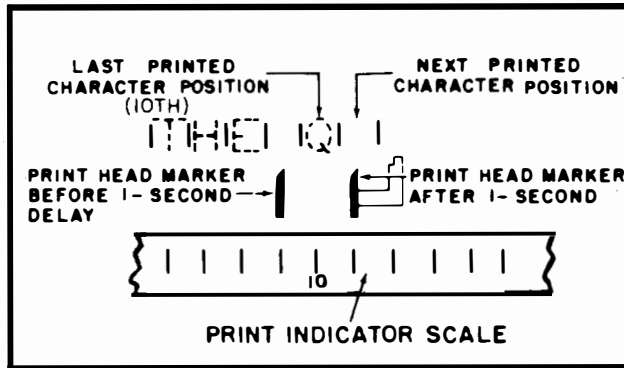
and



must be off. At this time messages can be typed, margins changed, tabs set or paper loaded even though the terminal buffers may be on-line. You can now type messages on your keyboard as you would on an ordinary typewriter.

Print Head Marker

The next printing location of the print head and the position for setting tabs and margins is indicated after a 1-second delay by the silver print head marker. The print head moves back when printer resumes. The print head marker is also used to indicate the current location in the edit buffer.



Left- and Right-Hand Margins

When power is turned on, the left- and right-hand margins are reset to the left and right boundary values. See OPERATOR AFFECTING OPTIONS No. 10 and 11 Page 38. Different values can be temporarily set by moving print head (use space-bar) to desired position and depressing the CTRL key together with the indicated key. See SENDING AND RECEIVING ESCAPE (ESC) SEQUENCES Page 37.

- CTRL 7 — Sets left margin.
- CTRL 8 — Sets right margin.
- CTRL 9 — Clears left and right margins.
- CTRL 0 — Releases right margin.

MARGINS			
SET		RELEASE	
LEFT	RIGHT	CLEAR	RIGHT
8	*	()
7	8	9	0

Note: The bell sounds when a character is printed 8 columns before and at the right margin. Characters from the keyboard are suppressed at the right margin.

Horizontal Tabulation*

To utilize horizontal tabulation, tab stops must be set. Tab stops can be set at any desired location between the left and right margins. It may be necessary to first clear existing tabs if they are unwanted, then position the print head (use spacebar) to desired position and enter the horizontal tab. This can be accomplished by depressing the CTRL key together with the indicated key. See SENDING AND RECEIVING ESCAPE (ESC) SEQUENCES Page 37.

- CTRL 1 — Sets a tab stop.
- CTRL 2 — Clears all tab stops.
- CTRL 3 — Restores preset tab stops (see Note).

HORZ TAB		RESTORE PRESET TABS
SET	CLEAR	
!	@	*
1	2	3

Note: Preset tab stops may be stored in the terminal. See OPERATOR AFFECTING OPTIONS No. 18 and 19 Page 38. Depressing CTRL 3 restores tab stops to preset values.

Vertical Tabulation and Form Feed*

Vertical tabs can be set to any line position from the top of the form to the currently set form length.

VERT TAB	
SET	CLEAR
%	^
5	6

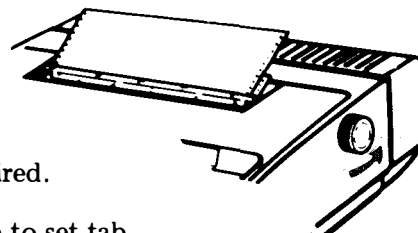
To Set Vertical Tabs

- Depress CTRL 6 to clear all existing vertical tabs (if desired).
- Depress CTRL L (form feed).
- Manually (use platen knob) position top of form to print position.

- Use

LINE FEED

 to advance form to the first vertical tab position desired.



- Depress CTRL 5 to set tab.
- Continue using

LINE FEED

 to advance form and CTRL 5 to set tabs until all vertical tabs are set.

Note 1: A vertical tab will be executed by depressing CTRL K (vertical tab).

Note 2: If there is no vertical tab between the current line position and the end of the form, the printer will advance the paper to the beginning of the next form and perform a carriage return.


*Response to horizontal and vertical tabs may be disabled in your terminal. See OPERATOR AFFECTING OPTIONS No. 5, 6 and 14 Page 38. If form length is zero your terminal will not tab vertically even if vertical tab equals yes.

RECEIVE-ONLY OPERATION

If the 43 Teleprinter is optioned as a receive-only terminal (see OPERATOR AFFECTING OPTIONS No. 2 Page 38)messages cannot be sent on-line.

Messages can be typed off line, margins changed and tabs set (see KEYBOARD-PRINTER (KP) OPERATION Page 17).

Messages can be entered into the edit buffer, edited and reprinted. All edit mode functions can be performed except RECALL, RETRIEVE and STORE. See EDIT MODE Page 30.

All controls and indicators function as explained (see CONTROLS AND INDICATORS Page 9)with the exception of the  key which has no function.


Communication on-line is limited to receiving messages only. See To Receive a Message.

AUXILIARY TERMINAL OPERATION

If the 43 Teleprinter is optioned as an auxiliary terminal (see OPERATOR AFFECTING OPTIONS No. 3 Page 38)messages cannot be sent on-line.

Messages can be typed off line, margins changed and tabs set (see KEYBOARD-PRINTER (KP) OPERATION Page 17).

Messages can be entered into the edit buffer, edited and reprinted. All edit mode functions can be performed except RECALL, RETRIEVE and STORE. See EDIT MODE Page 30.

All controls and indicators function as explained (see CONTROLS AND INDICATORS Page 9)with the exception of the  key which has no function.

Communication on-line is limited to receiving messages only, under control of the primary teleprinter.

Ribbon

Only cartridges with ribbon designated for use with 43 Teleprinters should be used. The Teletype Corporation part number is 430035.

The cartridge with ribbon can be ordered from Teletype Corporation, 5555 Touhy Avenue, Skokie, IL 60077.

The ribbon should be replaced whenever it becomes frayed or print density becomes light. After the first few ribbons, replacement ribbons should produce 5 million or more legible characters of printing.

Sprocket Feed Paper For Tractor Feed Teleprinters

Paper may be from 3 inch to 12 inch wide sprocket feed. The teleprinter requires paper with folds or horizontal perforations located midway between sprocket holes and standard sprocket hole size and spacing. This paper may be single-ply with 8-1/2 inch folds to provide 11 inch by 8-1/2 inch copy when the 1/2 inch wide sprocket hole strip is removed at the edge serrations. (Characters are printed to within 7/8 inch of the left and right paper edge before the strips are removed.)

Similar replacement paper may be obtained from the supplier listed on the original paper box or from other suppliers listed in the telephone book yellow pages.

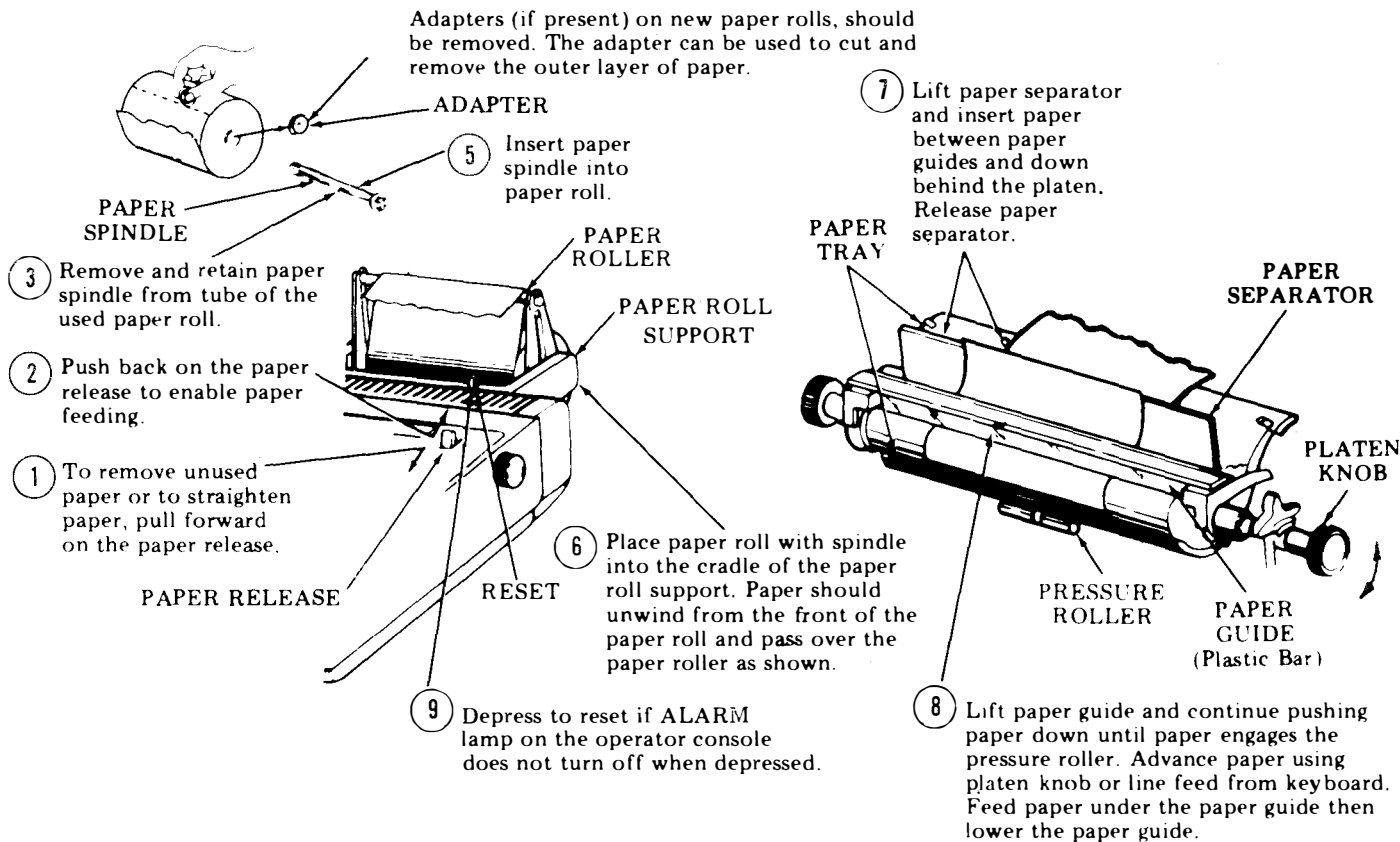
Other types of sprocket feed paper with different form lengths, lighter weight, no edge serrations or additional copies, etc, may also be used. Multicopy forms consisting of the original and 2 copies of 12 pound basic paper (using 8 pound basic carbon paper) produce clear copy. Acceptable copy may also be obtained on variations of multicopy forms using different weight paper or carbonless paper, however all paper or forms should be tried before ordering large quantities. Crimped multiple part forms are not recommended and stapled forms are not allowed. Consult your paper supplier for specific needs to assure complete satisfaction.

Friction Feed Paper

Paper for the 43 Friction Feed Teleprinter should be standard 8-1/2 inches wide, single-ply, furnished in 5 inch maximum diameter rolls with a 1 inch diameter spindle hole.

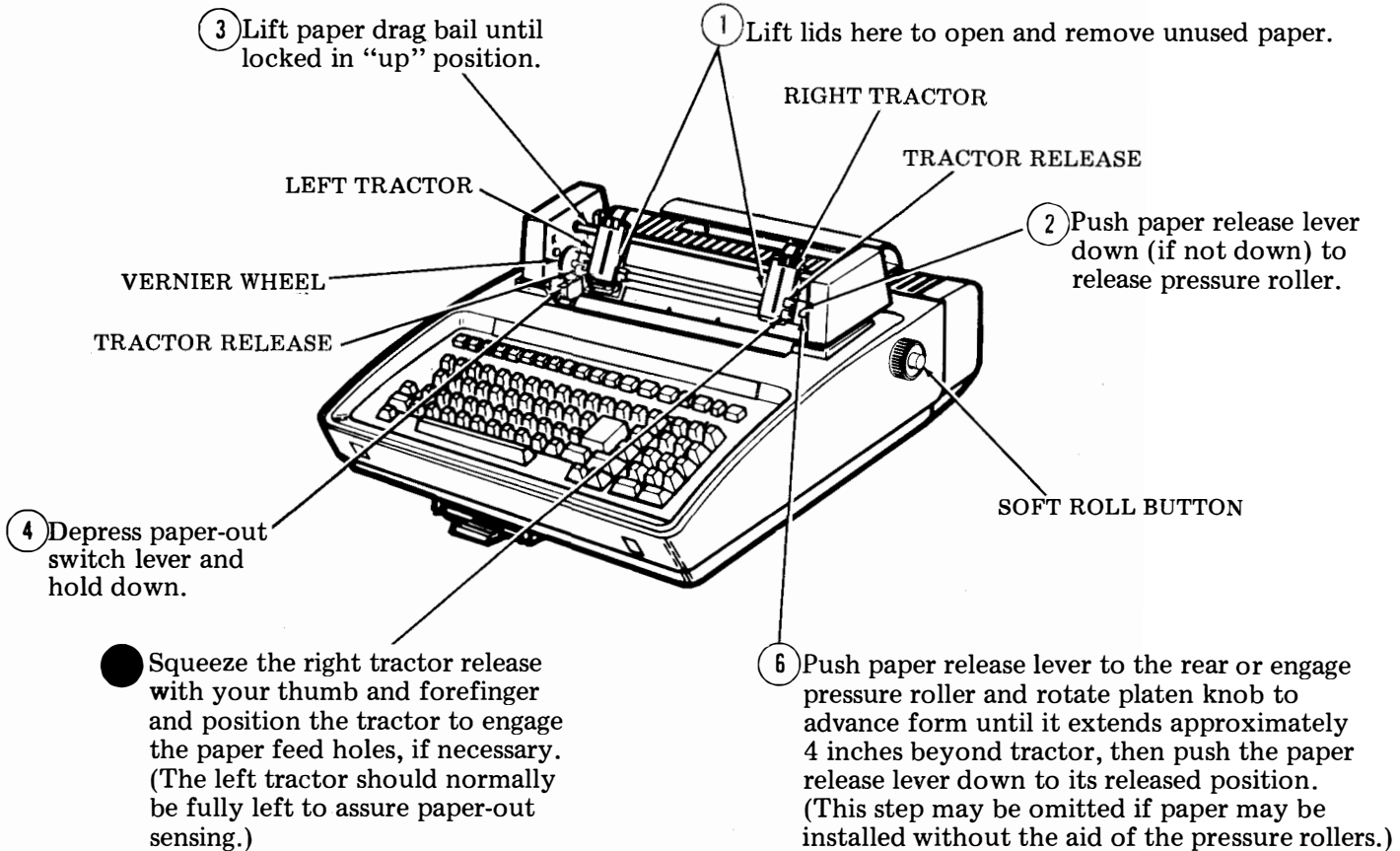
Installing Paper (Friction Feed)

Install paper as shown after removing the unused paper from the printer. It is not necessary to turn off power or open the cover when replacing the paper.

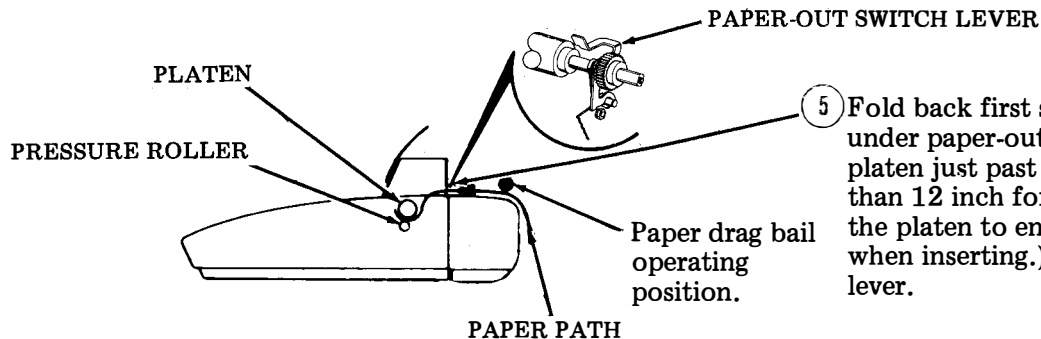


Installing Paper (Tractor Feed, Continuous Forms)

● To install paper, it is not necessary to open the cover or turn off power.



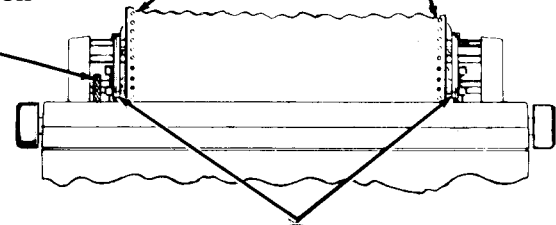
See next page for ⑤



5 Fold back first sheet if desired, route paper under paper-out switch lever and under the platen just past the pressure roller. (Narrower than 12 inch forms should be centered to the platen to engage pressure rollers when inserting.) Release paper-out switch lever.

11 Adjust tractor mechanism vernier wheel to provide up to 2 horizontal character positions. If greater adjustment is required, reposition both tractors.

8 Place the paper feed holes over the tractor pins keeping paper straight in tractor mechanism and close lids. This should cause the paper drag bail to fall into its operating position. Tractor may require side to side adjustment to hold form flat against the platen.



(Partial Front View)

9 Adjust the paper bail plastic roller to center of paper. Adjust metal roller to one inch (less for narrow paper) from right edge of paper.

12 To reposition a line vertically, use soft roll feature. Depress soft roll button on platen knob and rotate platen to desired position. Release soft roll button.

● Set right margin (and left margin), if necessary.

To Install Ribbon

- 1 Space print head to center of platen and open cover. Alarm lamp lights.

- 2 Place new ribbon around the outside of rollers.

- 3 Pull print head locking lever back (towards keyboard) as far as it will go.

- 4 Using thumb, push locking lever toward platen until it snaps into place.

- 5 Close cover.

- 6 Position print head against ribbon. With thumb on top of the print head, push the print head toward the platen, then move locking handle fully to the rear.

- 7 Pull on cartridge to the right and pass ribbon between print head and rollers (see Routing Diagram below).

- 8 Remove and discard cartridge with used ribbon by grasping and lifting the cartridge. This applies only when changing a ribbon.

- 9 Place ribbon cartridge on the right-hand bracket and allow magnet to pull cartridge down into place. Make sure it is down.

430035
CARTRIDGE
WITH RIBBON

COVER RELEASE
(2 Places)

RIBBON
ROUTING

ROLLERS

RIBBON
CARTRIDGE

ROLLERS

Note: Make sure ribbon is fully on all four rollers before closing cover.

Routing Diagram
(TOP VIEW)

BUFFER (Data Storage)

There are two kinds of storage in the 43 Teleprinter buffer, nonvolatile (permanent) and volatile (temporary) memory.

Nonvolatile memory is where installer programmable options are stored. These options when selected and stored, provide many of the operational characteristics of your terminal.

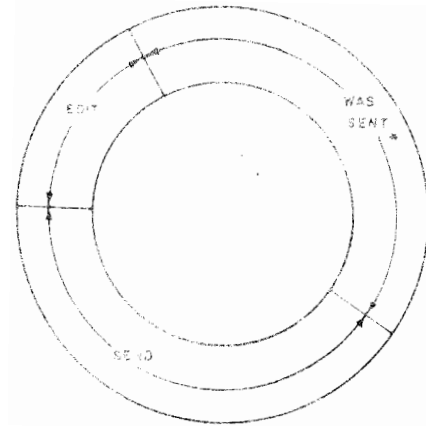
The volatile memory is divided into a Send, a Receive and an Auxiliary Receive buffer.

Send Buffer

The send buffer is divided into three sections; Edit, Send and Was Sent*.

*Data is not treated as Was Sent until the message is automatically acknowledged by the terminal or by the remote end.

The send buffer is organized in a circular manner as shown below.



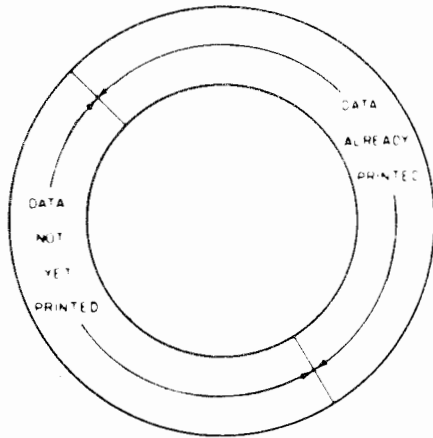
Send Buffer Organization

The edit section accepts data from the keyboard or data transferred from the receive buffer. All editing functions are performed in this section. The edited data when stored in the Send section is the source of the send data. After having been sent and acknowledged, messages are transferred to the Was Sent Section and remain there until the space is needed for composing new messages.

Receive Buffer

The receive buffer accepts all received data addressed to it from the line and holds it until the printer is available. After printing, the data remains in the buffer until the space is needed for newly received data. The old data (data already printed) may be retrieved as long as it is in the receive buffer. (See to Retrieve a Message for Editing (ReceiveBuffer) Page 35.

The receive buffer is also organized in a circular manner divided into two sections, Data Not Yet Printed and Data Already Printed.

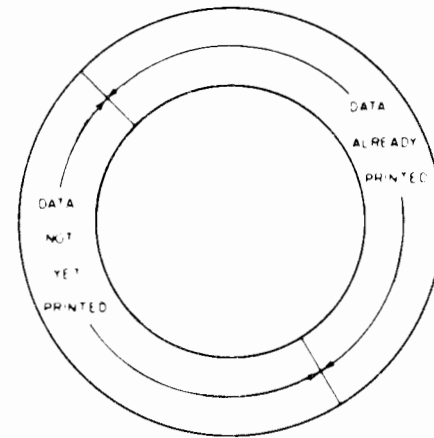


Receive Buffer Organization

Auxiliary Receive Buffer

The auxiliary receive buffer accepts all received data addressed to it from the line and holds it until the auxiliary printer is available. After printing, the data remains in the buffer until the space is needed for newly received data.



The auxiliary receive buffer is also organized in a circular manner divided into two sections, Data Not Yet Printed and Data Already Printed.








Auxiliary Receive Buffer Organization

Your 43 Teleprinter is always on-line unless it is in the local mode (TERM LOCAL key lit) or power is turned off. Terminal local mode may be disabled. See OPERATOR AFFECTING OPTIONS No. 1 Page 38.




To Receive a Message

- Depress  key if not lit.
- Depress  key if not lit.
- A message will print when the terminal is selected to receive and receives a message.

Note 1: If a message was received while the  lamp was off, the  will be on. To print all the messages received, depress the  key. To print the messages one at a time, depress the  key. After one message prints, if the  key is still lit, depress again for the second message.

Note 2: If your 43 Teleprinter has an auxiliary printer, the auxiliary printer will print messages addressed to it provided it is conditioned to receive. Refer to the How to Operate Manual associated with the Auxiliary Printer.



Note 3: If this 43 Teleprinter is optioned as an auxiliary printer (see OPERATOR AFFECTING OPTIONS No. 3 Page 38) it will print received messages addressed

to it provided the  and  keys are lit and the  lamp is off.

Note 4: If the bell rings for approximately one second, See Audible Alarm below.






Audible Alarm

(See OPERATOR AFFECTING OPTIONS No. 9 Page 38 .)

If optioned for audible alarm the bell will ring for one second indicating the terminal or auxiliary terminal (if present) is being selected and there is not enough space in the buffer to receive a message. To make space available, depress  key if  key is lit or place the auxiliary printer in a receive mode to print data in the buffer.



To Prepare and Send a Message (No Contention)





(See OPERATOR AFFECTING OPTIONS No. 8 Page 38.)

- * Depress  key if not lit.
- * Depress  key if not lit.
- * Type a message in the edit buffer. If a typing error is made, See Message Edit.
- * Depress  key.  key lights. The message will be sent automatically when the terminal is polled.  key flashes while sending and may go out after message is sent.

To Prepare and Send a Message (Contention)



(See OPERATOR AFFECTING OPTIONS No. 8 Page 38.)

- * Depress  key if not lit.
- * Depress  key if not lit.
- * Type a message in the edit buffer. If a typing error is made, see Message Edit.

- * Depress  key.  key lights.
- * Depress the  key.  key flashes while sending and may go out after message is sent.

EDIT MODE

Your 43 Teleprinter is placed in the edit mode by



depressing the  key if not lit. If the  key is lit it will turn off.

While in the edit mode, sending and receiving can take place without interrupting the message preparation.

Before proceeding, become acquainted with the Edit Control keys (INSERT, STRING ENTER, MSG CLEAR and KEYBOARD EDIT CLUSTER) and keyboard operation.

Message Edit

To Overwrite an Errored Character

- * Depress  key.
- * Depress  key. Message prints out.

Example:

THE QUICK BROWN FAX

Errored Character

* Position print head marker (ie, use edit controls \uparrow , \leftarrow , \downarrow , \rightarrow , etc) at character "A".

* Type character "O". The "O" character overwrites the character "A".

* Depress

5
HOME

 then

7
PRINT EDBUF

 key.

THE QUICK BROWN FOX..... prints out.

To Delete One or More Characters

• Depress

5
HOME

 key.

• Depress

7
PRINT EDBUF

 key. Message prints out.

Example:

THE QUICK BROWN FOX

Character to be deleted

* Position print head marker (ie, use edit controls \uparrow , \leftarrow , \downarrow , \rightarrow , etc) at character "O".

* Depress

9
CHAR DELETE

 key.

* Depress

5
HOME

 then

7
PRINT EDBUF

 key.

THE QUICK BROWN FOX..... prints out.

Note: The

9
CHAR DELETE

 key can be depressed simultaneously with the

REPT

 key to delete a string of characters.

To Delete One or More Lines

• Depress

5
HOME

 key.

* Depress

7
PRINT EDBUF

 key. Message prints out.

* Position print head marker (ie, use edit controls \uparrow , \leftarrow , \downarrow , \rightarrow , etc) anywhere within the line to be deleted.

• Depress

•
LINE DELETE

 key.

• Depress

5
HOME

 key.

EDIT MODE (Contd)

- Depress key. Message prints out with desired line deleted.

Note: The key can be depressed simultaneously with the key to delete multiple lines.

To Insert One or More Characters

- Depress key.
- Depress key. Message prints out.

Example:

THE QUICK BROWN FX

Character to be inserted

- Position print head marker (ie, use edit controls , , , , etc.) at the character "X".
- Depress key. Key lights.
- Type the character "O".
- Depress key. Lamp goes out.

- Depress then key.

THE QUICK BROWN FOX..... prints out.

To Clear All or Part of a Message

- Depress key.
- Depress key. Message prints out.



Example:



THE QUICK BROWN FOX

Everything from FOX to the end of message to be cleared.



- Position print head marker (ie, use edit controls , , , , etc.) at the character "F".
 - Depress key.
 - Depress then key.
- THE QUICK BROWN..... prints out.


To Print Edit Buffer Without Special Symbols for Control Characters


- Depress  key.
- Depress  key. Message prints out.

A depression of the  key while the message is printing causes the message to stop printing. A depression of the  key after the message prints causes the second message (if present) to print.




To Print Edit Buffer with Special Symbols for Control Characters.


- Depress  key.
- Depress  key. Message prints out with special symbols for control characters (See SPECIAL CONTROL CHARACTERS Page 19). Control functions are not performed.

A depression of the  key while the message is printing causes the message to stop printing. A depres-



sion of the  key after the message prints causes the second message (if present) to print.

To Store One or More Messages for Sending

- Prepare one or more messages for sending. If more than one message was prepared, the message at the current buffer location will be stored first and sent first.
- Place the print head marker, using edit controls, anywhere in the message to be stored first.
- Depress the  key.  key lights.
- Place the print head marker anywhere in the second message to be stored and depress the  key.
- Repeat this procedure until all messages desired are stored.


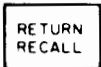

Note: If fewer than two unoccupied positions remain in the edit buffer or if the  lamp is lit. The store operation may not take place.

To Determine the Contents of the Various Buffers

- * Depress  key if lit. Key goes out.
- * Depress  key. A summarized list of the contents of the edit buffer, receive buffer, send buffer and was sent buffer prints.



To Recall a Message for Editing (Send Buffer)

To recall a message for editing it must be listed in the send buffer summary. See To Determine the Contents of the Various Buffers.

- * Depress  key. Key lights and printer performs a carriage return-line feed.
- * Depress  All the messages listed in the send buffer summary are now in the edit buffer and can be reviewed by depressing the  key.

To Retrieve a Message for Editing (Was Sent Buffer)

To retrieve a message for editing it must be listed in the was sent buffer summary. See To Determine the Contents of the Various Buffers.



- * Depress  key. Key lights and printer performs a carriage return-line feed.
- * Depress  key. Lamp lights.
- * Type a string of characters unique to the message being retrieved.

Note: The message retrieved starts with the first character in the string and ends with the first message ending character.

Example:

THE QUICK BROWN

└─ Message to be retrieved listed in was sent summary.

- * Type the "THE QUICK"
- * Depress  key. The  lamp turns off.

When the string is found, the following occurs:

1. Printer carriage return-line feeds.
2. The message containing the string is appended to the edit buffer by copying the message starting with the first character in the string and ending with the first message ending character.
3. The current buffer location is positioned on the first character of the string.



The message can now be re-edited and stored for transmission.

Note: It is possible the retrieved message will not fit in the edit buffer. In this case the maximum amount of characters that will fit are retrieved and "MAY BE INCOMPLETE" prints.

If the string is not found, the printer carriage return-line feeds, "CANNOT FIND" is printed and the edit buffer remains at its former position.

To Retrieve a Message for Editing (Receive Buffer)

To retrieve a message for editing from the receive buffer it must be listed in the receive buffer summary. See To Determine the Contents of the Various Buffers.



- * Depress  key. Key lights and printer performs a carriage return-line feed.
- * Depress  key. Lamp lights.
- * Type a string of characters unique to the message being retrieved.

Note: The message retrieved starts with the first character in the string and ends with the first message ending character.

Example:

THE QUICK BROWN

↑ Message to be retrieved listed in the receive buffer summary.

- * Type "THE QUICK"
- * Depress  key. The  lamp turns off.

When the string is found, the following occurs:

1. Printer carriage return-line feeds.
2. The message containing the string is appended to the edit buffer by copying the message starting with the first character in the string and ending with the first message ending character.

3. The current buffer location is positioned on the first character of the string.


The message can now be re-edited and stored for transmission.


Note: It is possible the retrieved message will not fit in the edit buffer. In this case the maximum amount of characters that will fit are retrieved and "MAY BE INCOMPLETE" prints.




If the string is not found, the printer carriage return-line feeds, "CANNOT FIND" is printed and the edit buffer remains at it former position.

☐ To Search for a Message for Editing (Edit Buffer)

To search for a message for editing the message must be listed in the edit buffer summary. See To Determine the Contents of the Various Buffers.

- Depress  key if not lit. Key lights and printer performs a carriage return-line feed.

Depress  key and view the contents of the buffer. Depress key several times, if necessary, to print all the messages in the edit buffer.

- Depress  key.
- Depress  key. Lamp lights.
- Type a string of characters unique to the message or location within the message being searched.
- Depress the  key.

When the string is found, the following occurs:

1. Printer carriage return-line feeds.
2. The line containing the string is printed up to and including the last character of the string.
3. The current buffer location is at the character following the last character of the string.


If the string is not found, the printer carriage return-line feeds, "CANNOT FIND" is printed and the current edit buffer location is the first position following the last character in the edit buffer.

SENDING AND RECEIVING ESCAPE (ESC) SEQUENCES

Only the following ESC characters are functional in the 43 Teleprinter. They are performed when sending or receiving the character immediately following the escape character (ESC key).




Use of these or other escape sequences on-line may be system dependent.

- ESC 1 (CTRL 1) — 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 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) (CTRL 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.
- ESC 8 (CTRL 8) — Sets right margin, local function only.
- ESC 0 (CTRL 0) — Releases right margin for current line, local function only.

Note. The escape sequence will be entered in the edit buffer if the  key is lit 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.

MESSAGE GENERATOR

The message generator generates a message of up to 15 characters. It is used for entering repetitive message information into the edit buffer. See OPERATOR AFFECTING OPTIONS No. 17 Page 38 for the message generator character string, if any.

- Depress  key. Lamp lights.
- Hold the  key depressed and depress the  key. The message is printed and entered into the edit buffer.

OPERATOR AFFECTING OPTIONS

The following options affect operator operation of the 43 Teleprinter. The value of these options should be filled in by the installer or station manager since these options are referred to in this manual and affect the operation of the 43 Teleprinter.

Check Yes or No

- (1) Terminal Local Mode Enabled Yes ___ No ___
- (2) Receive Only Teleprinter Yes ___ No ___
- (3) Auxiliary Teleprinter Yes ___ No ___
- (4) Copy Sent Data Yes ___ No ___
- (5) Horizontal Tab Yes ___ No ___
- (6) Vertical Tab Yes ___ No ___
- (7) Double Line Feed Yes ___ No ___
- (8) Contention Yes ___ No ___
- (9) Audible Alarm Yes ___ No ___

Enter the Numeric Value

- (10) Left Boundary ___ ___ ___
- (11) Right Boundary ___ ___ ___
- (12) Sum Length ___ ___

- (13) Edit Buffer Low Warning ___ ___ ___
- (14) Form Length in Line Feeds ___ ___ ___

Enter Alpha or Numeric Value

- (15) Large Key (Return) ___ ___ ___
- (16) Small Key (Line Feed) ___
- (17) Message Generator ___ ___ ___ ___ ___

Enter the Numeric Value

- (18) Preset Horizontal Tabs (Column Numbers) ___ ___ ___ ___ ___ ___
- (19) Preset Vertical Tabs (Line Feed Count From Top of Form) ___ ___ ___ ___

Note: The following are commonly used symbols which may appear in options 15,16 or 17.

← = Carriage Return

≡ = Line Feed

→ = Horizontal Tab

/// = Delete

IF TROUBLE OCCURS

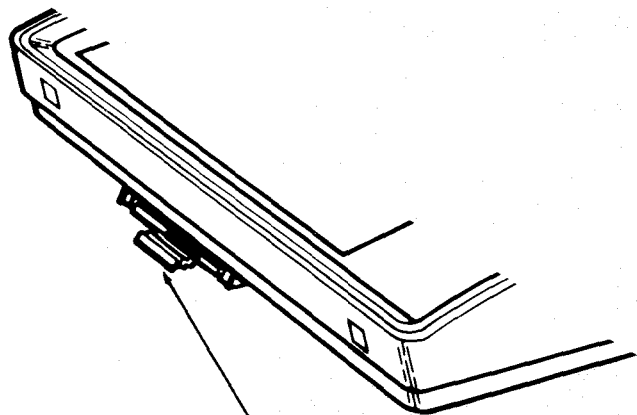
Trouble that is encountered with the 43 Teleprinter should be reported as locally specified. A number to be called in case of trouble may be entered on the directory card pullout by the installer.

If it can be determined that the trouble is in the remote equipment, the attendant at the location in trouble should follow local procedures for that area.


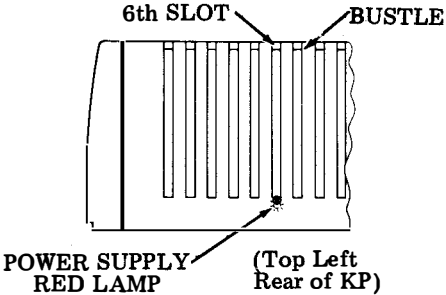
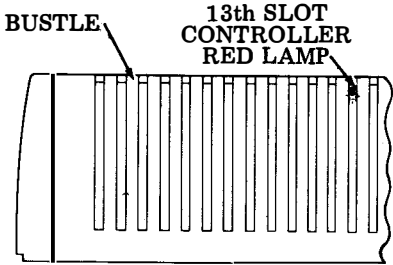
The following table of analysis questions is arranged to aid in the isolation of a trouble for:



- Local correction.
- Correction at the remote location.
- Advising service personnel in advance of trouble visit of Analysis Question results.

Before reporting a trouble, follow the Analysis Questions in the table always starting with Question no. 1 and then proceed according to the "Yes" or "No" directive on the following pages.



PULLOUT DIRECTORY
CARD FOR TROUBLE NUMBER

Analysis Question	Yes	No
<p>1. Is  key lit or flashing?</p>	Go to 2.	Go to 1a.
<p>1a. Is red power supply lamp on? The red lamp can be seen through air vent slot (6th slot from left) of the bustle.</p> 	Go to 1b.	<ol style="list-style-type: none"> 1. Check that power switch is ON. 2. Check that power cord is connected. 3. Check source of power. (Wall switch, other equipment ok, circuit breaker, etc.) 4. Report as local trouble in terminal.
<p>1b. Is red lamp on the controller lit? Can be seen through the air vent slot (13th slot from left) of the bustle.</p> 	Go to 1c.	Report as trouble in controller or as trouble in power supply output cable to controller.

Analysis Question	Yes	No
1c. Does keyboard pass keyboard test? See page 42 for keyboard test.	Reevaluate Question 1. Report as local trouble in 43 Teleprinter.	Report as trouble on keyboard.
2. Is  key lit steadily? (Data set power on.)	Go to 3.	Report as probable trouble in data set or data set cable.
3. Can any characters be locally generated from the keyboard to the printer?	Go to 4.	Report as local trouble in the 43 Teleprinter.
4. Is  key lit almost continually? (43 Teleprinters not optioned for contention.)	Go to 5.	Indicates a system problem. See station manager.
5. Can data be stored and sent (Data received by remote location)? (43 Teleprinters not optioned as receive only or auxiliary terminals.)	Go to 6.	Report as on-line trouble. The Telephone Company may direct you to perform some specific tests.
6. Can data be received and printed?	Go to 7.	Report as on-line trouble. The Telephone Company may direct you to perform some specific tests.
7. Is trouble present but not isolated by Questions 1 through 6?	Report trouble to the Telephone Company.	

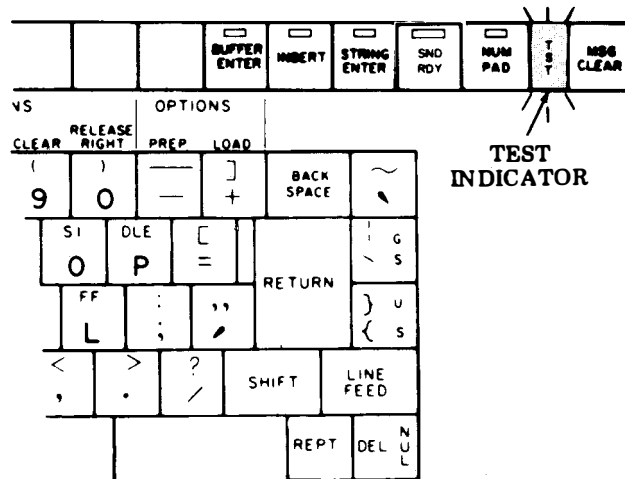
Keyboard Test

Local analysis of the keyboard can be performed easily by depressing certain keys causing certain lamps on the keyboard to light and extinguish. By doing so the attendant can provide information so that the keyboard electronics can be analyzed, thus assisting in trouble analysis.

With keyboard in the CAPS LOCK mode, proceed as follows:

- Depress **LINE FEED** and **QUOTES** keys simultaneously with more force than is required in normal operation.

The TST indicator will light and remain lit indicating Test mode.



Note: If any lamps flash when Test mode is entered, simply depress the **LINE FEED** and **P** keys simultaneously to extinguish lamps. Re-enter Test mode by depressing **LINE FEED** and **QUOTES** keys.

- Depress the following keys while observing lamps for proper indication.

Depress key (or keys):	Indicator Key	Lamp Condition
A CTRL & A SHIFT NUM PAD 7 CTRL & 1	TERM LOCAL TERM LOCAL TERM LOCAL TERM LOCAL	ON OFF FLASH ON FLASH OFF
C CTRL & C SHIFT NUM PAD 9 CTRL & 3	TERM ON LINE TERM ON LINE TERM ON LINE TERM ON LINE	ON OFF FLASH ON FLASH OFF
D CTRL & D SHIFT NUM PAD 4 CTRL & 4	LINE ACTIVE LINE ACTIVE LINE ACTIVE LINE ACTIVE	ON OFF FLASH ON FLASH OFF
G CTRL & G CTRL & RETURN CTRL & 7	COPY SEND DATA COPY SEND DATA COPY SEND DATA COPY SEND DATA	ON OFF FLASH ON FLASH OFF
F CTRL & F SHIFT NUM PAD 6 CTRL & 6	ALARM ALARM ALARM ALARM	ON OFF FLASH ON FLASH OFF
E CTRL & E SHIFT NUM PAD 5 CTRL & 5	PRINT REC MSG PRINT REC MSG PRINT REC MSG PRINT REC MSG	ON OFF FLASH ON FLASH OFF
B CTRL & B SHIFT NUM PAD 8 CTRL & 2	REC MSG WTG REC MSG WTG REC MSG WTG REC MSG WTG	ON OFF FLASH ON FLASH OFF

Depress key (or keys):	Indicator Key	Lamp Condition
L CTRL & L SHIFT NUM PAD, CTRL & -	MSG SUMRY MSG SUMRY MSG SUMRY MSG SUMRY	ON OFF FLASH ON FLASH OFF
K CTRL & K SHIFT NUM PAD 3 CTRL & K	BUFFER ENTER BUFFER ENTER BUFFER ENTER BUFFER ENTER	ON OFF FLASH ON FLASH OFF
I CTRL & I SHIFT NUM PAD 2 CTRL & 9	INSERT INSERT INSERT INSERT	ON OFF FLASH ON FLASH OFF
H CTRL & H SHIFT NUM PAD 1 CTRL & 8	STRING ENTER STRING ENTER STRING ENTER STRING ENTER	ON OFF FLASH ON FLASH OFF
SHIFT & 2 CTRL & NUL TAB CTRL & 0 (ZERO)	SND RDY SND RDY SND RDY SND RDY	ON OFF FLASH ON FLASH OFF
O (ALPHA) CTRL & O SHIFT NUM PAD RETURN CTRL & O	NUM PAD NUM PAD NUM PAD NUM PAD	ON OFF FLASH ON FLASH OFF

(Test Ended)

- Depress LINE FEED and P keys simultaneously with additional force to clear Test mode.

TST indicator will extinguish and bell rings indicating Test mode has cleared.

Note 1: If lamp responded correctly in Test mode, the trouble is probably not in the keyboard.

Note 2: If any lamp failed to respond correctly, report failure when making a trouble call.



NOTES

Cut along dotted line for pocket reference.






43 TELEPRINTER 8-LEVEL BUFFERED
SELECTIVE CALLING (BSC) STATION

BRIEF OPERATOR GUIDE

To Receive a Message

- Depress  key if not lit.
- Depress  key if not lit.
- A message will print when the 43 Teleprinter is selected to receive and receives a message.

To Prepare And Send A Message

- Depress  key if not lit.
- Depress  key if not lit.
- Type a message in the edit buffer.
- Depress  key.  key lights.
- If optioned for contention, depress the  key, otherwise the message will be sent automatically when the 43 Teleprinter is polled.



999-300-137
Issue 1