

BASIC KSR



the **43** teleprinter

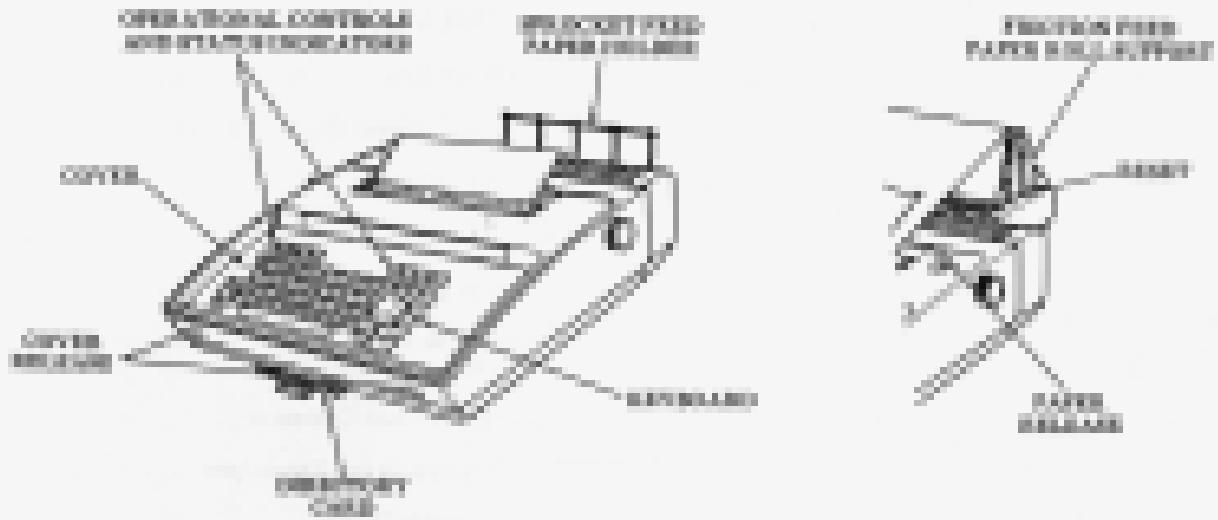
**T**E**L**E**P**RIOTE<sup>TM</sup>

HOW TO OPERATE

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KODAK Precision Feed Teleprinter

KODAK Special Feed Teleprinter

## HOW TO OPERATE TELEPILOT

(Pages 1 through 11)

### INTRODUCTION

The all Solid State Telepilot provides character-at-a-time half-duplex and full-duplex operation. Transmission speeds are 16 characters per second (cps) (1000 wpm) or 30 cps (2000 wpm) and can be selected by the telepilot to match the remote station.

The 432 Telepilot may be connected to an external communications device (modem) which may be associated with a telephone for connection and for transmission of data. A permanent connection via private line may also be used in these arrangements.

When connected directly to an associated modular telephone, calls are originated in a manner similar to regular telephone calls and can be answered either automatically or manually. The telephone can be used for normal voice communication or data messages can be exchanged over the telephone line using controls on the 432 Telepilot.

In some arrangements the 432 Telepilot may be connected directly to a computer or remote terminal.

On standard feed printers, messages with up to 120 characters per line are printed on 11 inch wide standard feed paper. The paper may be fed from a supply box or loaded directly into the rear of the telepilot. (See Page 8 for paper supplies.)

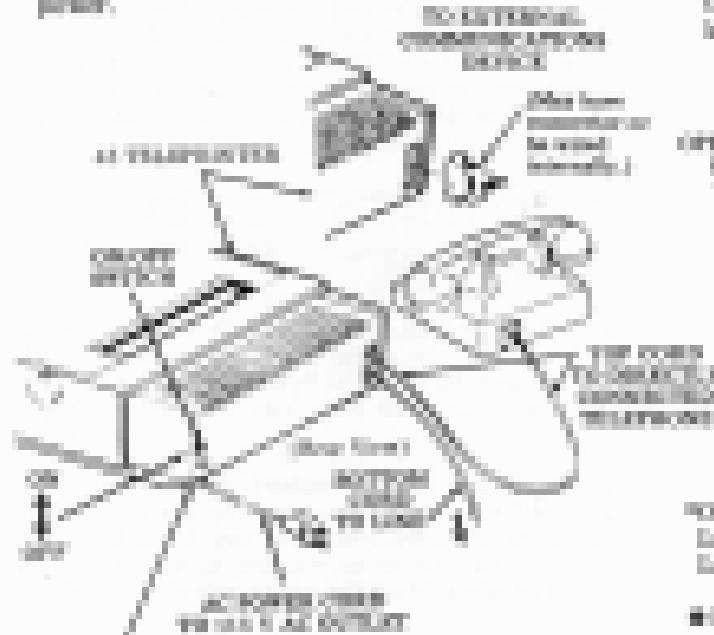
On ribbon feed printers, messages up to 80 characters per line are printed on 8 1/2 inch universal typepaper. The roll is held in a support attached to the rear of the telepilot.

The ribbon is part of a cartridge that can be readily replaced with the user open. Replacement ribbon cartridges can be obtained from Teletype Corporation (see Page 11). An order form is included with each new ribbon.

A pulley directory card holder under the theory of the teletype may be used to write in frequently used telephone numbers and name, any extension (see Page 11). The teletype by standard operating features should be recorded onto the reverse side of the card.

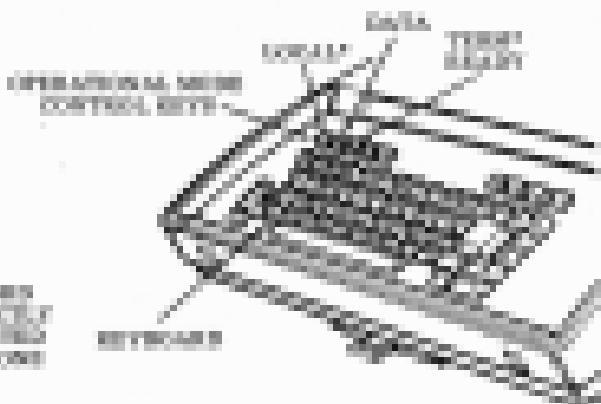
## CONNECTIONS AND POWER TURN ON

- Make sure all power cord and modular telephone cords or cord to any external communication device are connected in drivers before turning on power.



- Turn on power to telephone by depressing upper half of DIP/CPP switch.

- When power is first turned on, the green lead will move fully left and the THREE BEADY key on the operator console will light. During normal operation one of the three operational mode control keys should always be in indicating power is on.

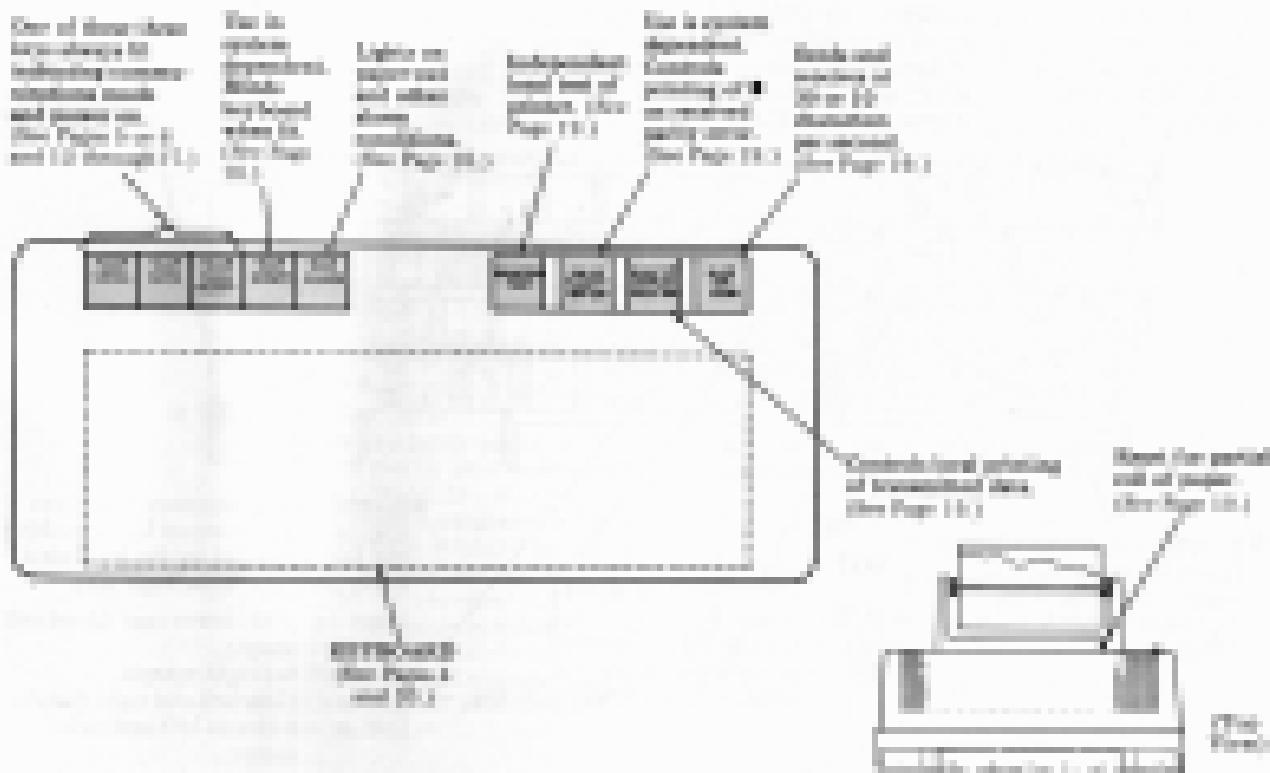


- In units with a directly connected telephone, the LOCAL and TELEPHONE keys are labeled LOCAL/TELE and AUTO ANSWER, respectively.

Drivers should normally be left on to automatically answer incoming calls or arrangements can be made to receive data messages. However, when not in use, the power to the telephone may be turned off without affecting the normal use of the telephone.

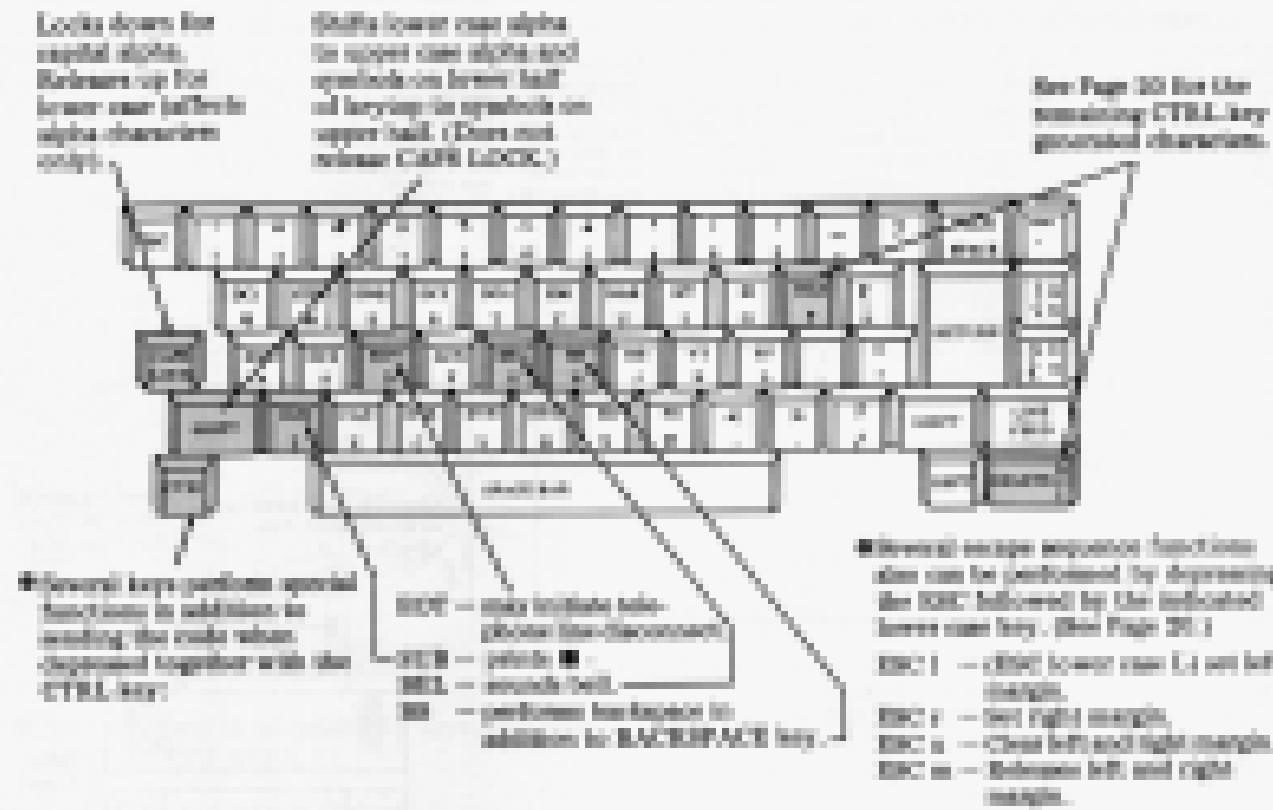
## OPERATIONAL CONTROLS AND STATUS INDICATORS

Actions and Functions of the operational controls and status indicators should be reviewed before the d3 Teleprinter is operated locally or online.



## KEYBOARD LAYOUT

The keyboard is operated locally in the Local mode and online in the Data mode.



## DATA LINKING OPERATIONS WITH DISTANT TERMINALS

### Procedures for Arranging a Telephone-Associated Telephone Directly Connected to the Terminal.

- Establishing connections and transferring to the Data mode on these arrangements is basically over the control of the directly connected communications device (decoder) and its associated telephone over the switched-network or, without a telephone, over private lines. In some arrangements terminals are directly connected to the distant terminal or computer. One of these external devices should be specified locally since many variations are possible, i.e., partitions on modems or on phones, exclusive keys, automatic answer, etc.
- The procedures as shown below, that normally apply to operation of the controls of the terminal, should be followed:
  - Before transferring a telephone-call to the Data mode (not originated on terminal) or to phone terminal in a steady condition:
    1. Turn on no power (see Page 11).
    2. Clear any alarm conditions (paper-out, error codes).
    3. Depress TEL/TEL RELAY key (if not lit). Key should light.
  - Transfer to Data mode:
    - The DATA key lights under control of the external device or distant station:
      1. This can be sent or received earlier only when the DATA key is lit and the LOCAL key is NOT lit.
      2. On some arrangements the DATA key may light immediately without the TEL/TEL RELAY key being lit.
    - To disconnect a telephone-call to DATA mode:
      - Call may be disconnected in follows:
        1. An EOFF code is received. (TELEGRAM RELAY key may light.)
        2. The LOCAL key is depressed. (LOCAL key will light.)
        3. Paper-out and right received line break. (LOCAL key will light.)
        4. Other interrupt procedures, issued data signals, etc.

## Connections For Answering Calls or Answered Telephone Directly Connected to the Terminal.

- Telephone can only receive by cylinder off and answered as follows to either incoming and outgoing messages or calls. Calls can also be disconnected as described below. Please note for us to complete a data call (see Page 3).



### **■ To Originate a Call:**

1. LOCAL TALK key lit. Depress if not lit. (Or in normal position, off and then in not heard, hang up immediately.)
2. Enter the Data tone or talk:
  - If tone is heard, transfer to Data.
  - If no tone is heard, talk, then transfer to Data when agreed.
3. Transfer to Data mode by depressing DATA key and hang up. Key lights (may flash before turning).
4. Data transmission may begin.

### **■ To Answer a Call With a DPO Answer Key Talk (key being depressed no lights)**

1. No action required. Please ring once. DATA key lights and DPTO Answer Key extinguished.
2. Data transfer must then begin.

### **■ To Answer a Call With LOCAL TALK Key Lit. (Depress off and lit.)**

1. When phone rings off handset and talk.
2. When agreed, transfer to data by depressing DATA key and hang up.
3. Key light(s) may then return light(s).
4. Data transmission may begin.

### **■ To Disconnect a Call:**

1. In Data mode:
  - Depress the LOCAL TALK key or
  - Press DPTO or when handset goes down or
  - Transfer to another in Answer mode.
2. In Local Talk mode:
  - Hang up handset.

Note: Call may also disconnect from remote control, such as received DPO, due the inactivity of the alternative card for any exception to this feature, Option 4000.

## KEYBOARD SEPARATION OPERATION

• The keyboard prints one character at a time with the LPRINT or LPRINTA command key in or out of the DATA file line.

### • Vertical Feed

The input text consists of three characters on several lines. Characters taken out in the right margin, i.e., characters 10, 11, 12, 13, and 14. This results in left margin when characters 10, 11, 12, 13, and 14 are taken out.

### • Vertical Return Line Feed

The carriage is returned and the page advances one line. A full line print, carriage return, form are repeated because the character is sent twice.

### • Printer

The printer copies all printable data messages except data in the printer buffer mode until the printer buffer receives data only.

### • Margin Setting

When print is turned on, the left and right hand positions, margins are set to 1 and 140 as indicated by 1 and 140 in the line feed. These marks are not deleted usually as indicated by taking the margin command. See Page 4. The carriage returns, printer returns, backspaces, etc. are.

### • Horizontal Scale

The original printing location of the print head and the position for printing left and right hand margins is indicated by the print head position at the print carriage while the print head moves back when printing occurs after 1 second delay.

LEFT MARGIN POSITION  
IN PRINTING POSITION

(1010)

CENTER OF LEFT PRINTED-CHARACTER

RIGHT HEAD POSITION AFTER 1 SECOND  
(characters 101 and 102, Printer Test (Printer Test))

POSITION OF PRINT HEAD POSITION  
BEFORE 1 SECOND(101,1)

PRINT POSITION SCALE



## TELETYPE SUPPLIES AND OPERATIONS

It is your responsibility to keep the telephone replaced with sufficient paper and ribbon. In addition, an adequate supply of these items should be ordered and kept in storage.

### Ribbons

Only cartridges with ribbon designated for use with 411 Teletypewriter should be used. Teletype part number is 411004.

The cartridge with ribbon can be obtained from Teletype Corporation, 1000 Twenty-third Street, Rockville, Md. 20850. An order form included with each new cartridge may be used for this purpose or substituted ordering procedures may be followed for large orders.

The ribbon should be replaced whenever it becomes frayed or print density becomes light. After the first few ribbons, replacement ribbons should produce 2 million or more legible characters of text.

### Paper

Paper for the 411 Standard Feed Teletypewriter must be 12 inch wide standard bond. The original and up to Teletype multiple forms may be used. Paper frequently used with such Teletypewriter is single-ply and has 8-1/2 inch basis to provide 11 inch x 8-1/2 inch copy when the carbons are removed. This single-ply 16 pound basis paper may be obtained from the suppliers listed below or other suppliers.

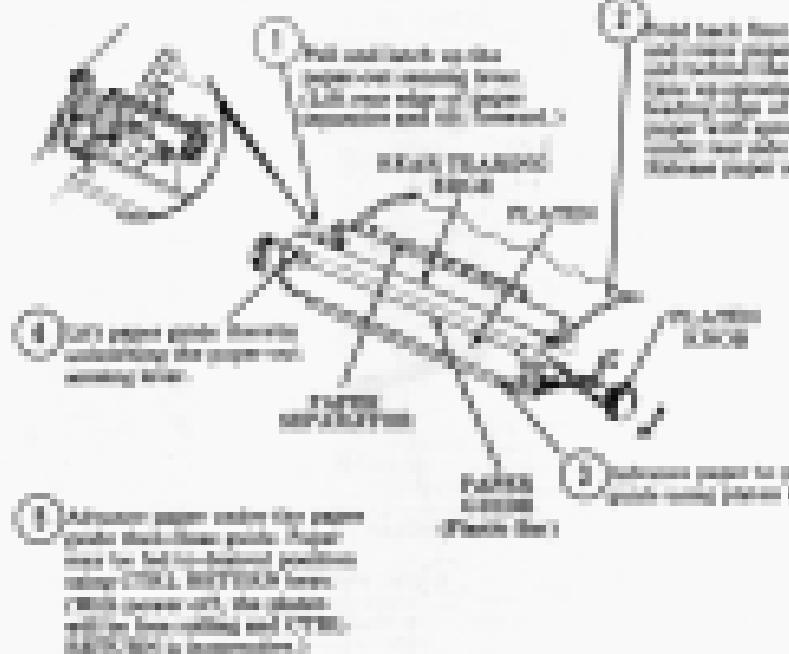
Walter Business Forms Inc.  
444 W. Grand Ave.  
Chicago, IL 60610  
Cat. No. 820074

Supplies Products Co.  
200 W. Prop.  
Baltimore, MD 21215  
Cat. No. 1-2100-007

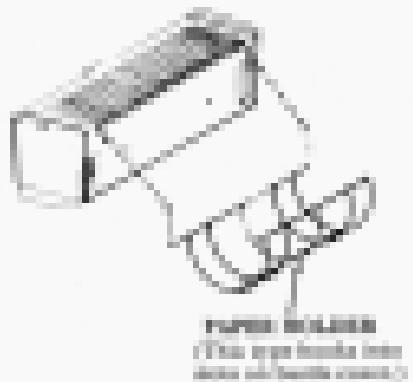
Paper for the 411 Standard Feed Teletypewriter should be standard 8-1/2 inches wide, single-ply, formulated to 3 inch maximum diameter rolls with a 2 inch diameter spool hole.

## REMOVING PAPER (Printer Feed)

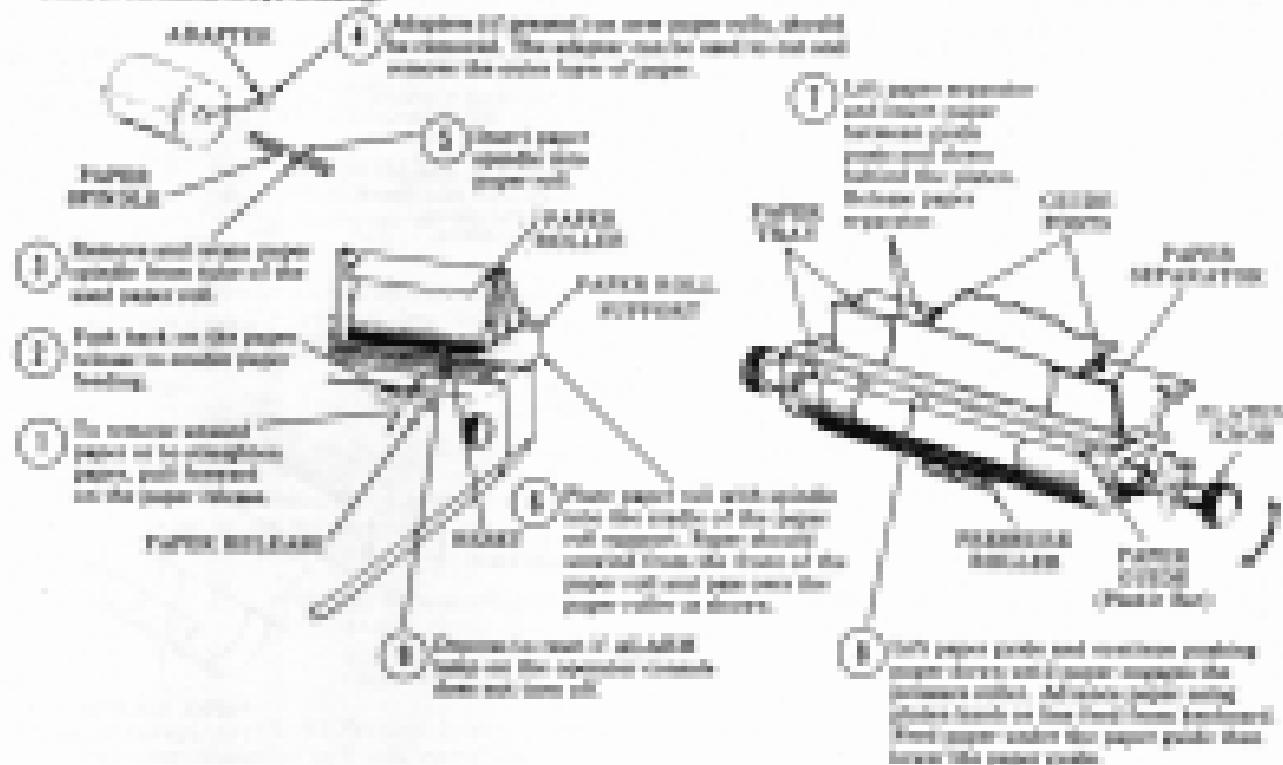
- Small paper or debris after reading the print head and removing the small paper. It is not necessary to open the cover or turn off power. However, to avoid loss of data, paper should not be replaced without interrupting the print cycle.



Note: Paper may be fed directly from the supply tray or if the paper feeder is used, a limited stack of forms may be placed in the feeder and fed over the platen.

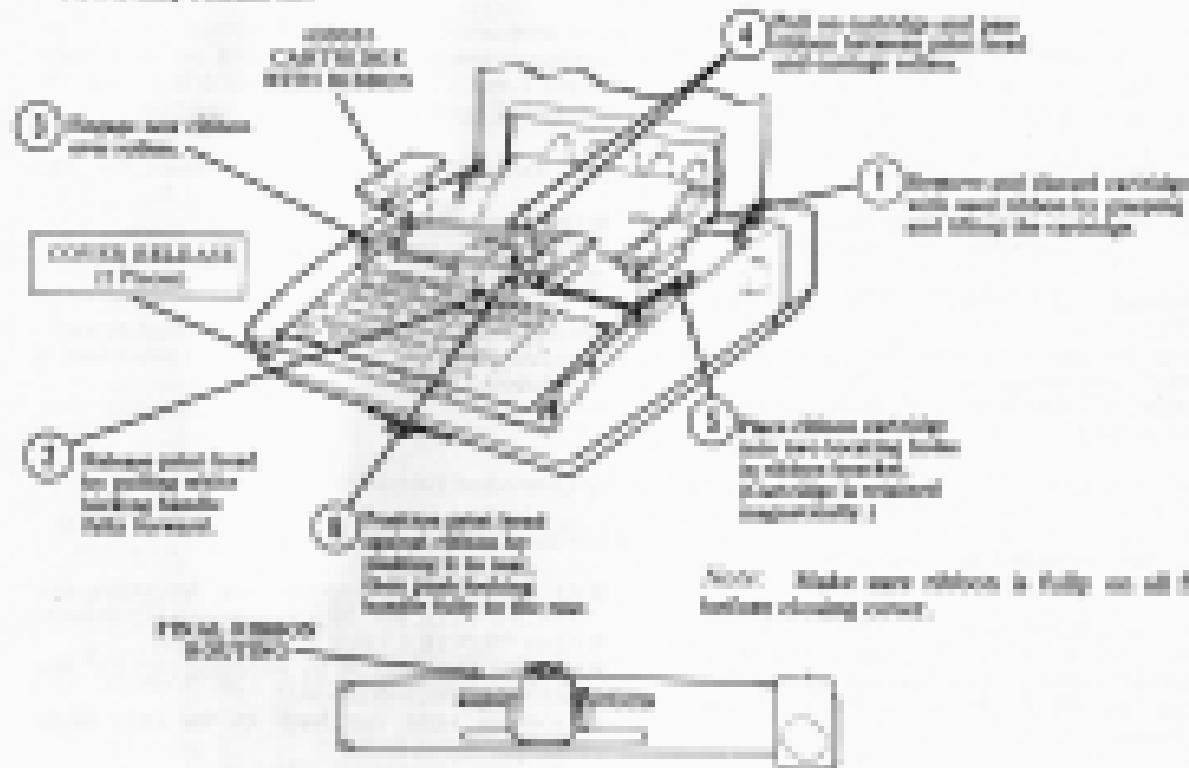


- Insert paper as shown after removing the current paper from the printer. It is not necessary to turn off power or open the cover when replacing the paper but to avoid loss of data, paper should be replaced after the print job has completed.



## INSTALLING CARTRIDGE

Please follow the steps after installing the print head and opening case. (Never keep lighter than those marked with the arrow open will not be granted and the keyboard and operational systems will be disabled. Power may remain on.)



**SUPPLEMENTARY OPERATIONAL INFORMATION**  
(Pages III Through XII)

**LOCAL TALK MODE KEY**

(Arrangements With a Directly Connected Modular Telephone)



Key lights in Local talk mode.

■ The Local Talk mode can be entered:

- At any time, by momentarily depressing the LOCAL TALK key. Will disconnect call in Data mode.
- By depressing the PRINTING TEST key. (See Page XII.)
- Opening the cover or removing paper in the Automatic Answer mode.
- Receiving eight line feeds in the Data mode after paper-out alarm.

■ The telephone is muted for normal use and the keyboard printer can be operated locally off line in the Local Talk mode. See Page 4 for telephone and Page 7 for keyboard-printer operation.

■ The Local Talk mode can be terminated by:

- Depressing ALTO ANSW key.
- Transferring call to Data mode.
- Turning off power.

■ Can be used to clear Local Talk mode or immediately after lifting of DATA key when it is off its handset.

(Arrangements With No Directly Connected Telephone)



Key lights in Local mode.

■ The keyboard printer can be operated locally off line in the Local mode. (Telephone associated with external communications device may be able to operate regardless of the condition of the LOCAL key.)

■ The Local Talk mode can be entered:

- At any time, by momentarily depressing the LOCAL TALK key. This key has a disconnect L.
- When PRINTING TEST key is operated.
- Opening the cover or by removing paper in the Automatic Answer mode.
- Receiving eight line feeds in the Data mode after paper-out alarm.

## DATAC MODE RING

### Connections With a Directly Connected Modular Telephone



- Key lights in Data and when in Ringing Loop-Back.

■ Data can be sent or received either in the Data mode only.

#### ■ The Data mode can be entered:

- Automatically -- following a telephone call or Ringing Loop-Back in the Automatic Answer mode.
- Manually -- after a telephone connection has been established in the Local Talk mode by continuously depressing the DATA key before hanging up.

■ The Data mode will be terminated disconnecting the call when:

- Eight key blinks are received after pressing and releasing the DATA key (Page 14).
- The mode is manually transferred to Automatic Answer (Page 18) or Local Talk (Page 13).

■ The character DFT pTTL D on the Model 41 keyboard) is received.

- Data signals from the remote station are lost.
- The local printer has been operated (Page 18).
- Power is disconnected for one second (Page 17).
- Power is turned off.

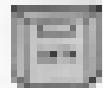
■ The telephone is disabled during the Data mode (answering, dial or talk).

■ The DATA key was held indicating a short interruption in data signal transmission.

■ Transfer to Data cannot be completed if the answering station turned on power after the call transferred.

Note: The DATA key blinks during transfer from the Automatic Answer or Local Talk modes. If the transfer is not properly completed within 30 seconds, i.e., local or distant station does not go in Data mode, then the DATA key will stop blinking, the call will disconnect and the ANSWER key will light.

## Unprogrammed keys (No Directly Connected Functionality)



Key lights in Data mode:

- While key 01 (LOCK) and ALARM keys are held, data can be sent and received on-line.
- The DATA key is blocked from operation.
- The Data mode is under control of the external communications device or directly connected status terminal (see TELNET READY).

## AUTOMATIC ANSWER MODE

### Interactions With a Directly Connected Multifunction Telephone



#### Key Right to the Automatic Answer mode.

- When power is turned on, the telephone will turn to the Automatic Answer mode. In this mode the telephone will be partially disabled. (No dial tone and no ringing or talking but the ring set sound) and no printing or data transmission can occur.

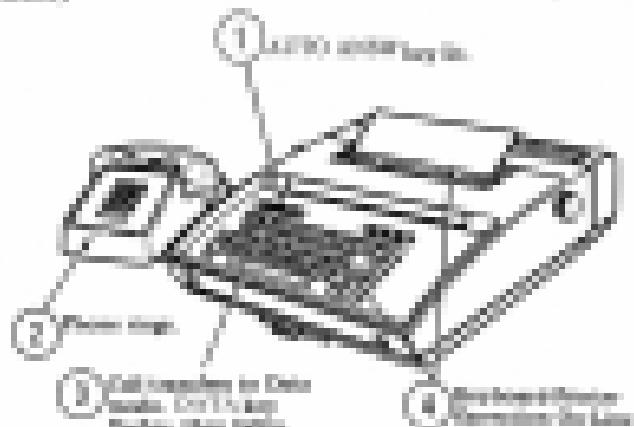
- Telephone calls received in the Automatic Answer mode will be answered automatically after one ring at the telephone and the ALTO ANSW key will turn off.

Note: The handset must be connected to answer the call.

- Following the ring, the telephone will automatically switch to the Data mode only after the remote originating station transmits to the Data mode.

- The Automatic Answer mode can also transition:

- Automatically — following calls in the Data mode. (See Pages 33 and 34 for Data mode.)
- Automatically — following a hunting DIA/Tel when a call is not completed.



- Disengaging ALTO ANSW key immediately after initial operation of talking on the phone. (See Page 12 for Local Talk mode.) If depressed during Data mode the call will disconnect.

- The Automatic Answer mode can also be terminated by:

- Opening the cover.
- Operating local printer test.
- Scattered paper.
- Manual transfer to Local Talk mode.
- Turning off power.

## **Arrangements With An Directly Connected Telephone**



### **Key lights indicating Terminal Ready mode:**

- When power is turned on, the TERM READY lamp will light, indicating a standby condition during which calls may be originated or answered.
- When calls are complete and data transmission is terminated, as indicated by the DATA lamp lighting, the TERM READY lamp turns off.

■ The Terminal Ready mode can also be terminated by:

- Opening the cover.
- Operating local printer test.
- Removing paper.
- Manual transfer to Local Talk mode.
- Turning off power.

■ The Terminal Ready mode can be entered by depressing the TERM READY key momentarily. If depressed during the Data mode, a telephone call may be answered as DATA lamp may be lit.

■ In private line arrangements, the TERM READY lamp lights only when the terminal is ready but the remote terminal or external data set is not ready.

## TRANSPORT TO TALK

### [Arrangements With a Directly Connected Modular Telephone]

Call can be transferred from the Data mode to the Talk mode, (see Page 5 for transfer back to the Data mode).

To transfer to the Talk mode, lift the handset and depress the LOCAL TALK key at each station.

Note: If the LOCAL TALK keys are not depressed within 4 seconds of each other a positive disconnect or transfer to the Automatic Answer state may occur. This can be avoided by programmed "go to talk" events that should be discharged before the transfer is initiated.

### [Arrangements With No Directly Connected Telephone]

Call transfer to Talk from the Data mode is under the control of external data communications devices and any associated telephone. Transferring to the Local mode may cause a disconnection. Normally, however, the external communications device will move the DTR/DTL lamp to extinguish and the TALK READY light when transfer to Talk is initiated.

## DISCONNECTIVE TELEPHONE CALLS

- Telephone calls in the Local Talk mode will be disconnected when the handset is placed on-hook.
- Transfer to Automatic Answer from the Local Talk mode or incomplete transfer to Data after 30 seconds will also disconnect the call.
- Telephone calls in the Data mode may be disconnected when:
  - An EOFF is received.
  - The printer test is initiated.
  - Manual transfer to Automatic answer.
- Transfer in Local Talk mode disconnects after 4 seconds if handset is on-hook.
- Eight line feeds printed online after the RING/R key lights due to a paper jam condition (operated, local only).

## INTERRUPT AND ALARM KEYS



Key lights when transmission has been interrupted by the remote station.

Note: The use of this key is system-dependent. It may not be operable with some remote stations. When operable, its use should be under direction of the system.

■ The INTERRUPT key operates as follows:

- In lights under control of the remote station. When lit, keyboard reading is disabled.
- If depressed momentarily when M, the interrupt is canceled.
- If depressed when not lit, the remote station reading may be interrupted. In, stop reading. Locality bell rings and key lights momentarily.

■ Interrupt is also reported by a character, or when power is turned off.



Key lights or flashes when alarm conditions exist.

■ Light when:

- Transient condition is sensed (operator fault). This is an advance warning that right reading has been lost (in the DATA mode), the roll will

disconnect. Also, after stations have feeds, page will be out of the print head.

■ Low paper condition is sensed (operator fault). This is an advance warning that 10 to 30 feet of paper remain on the paper roll.

■ When the cover is opened.

■ When printer head is operated.

■ Flasher when:

■ Telephone is in a Loopback Test mode.

■ Can be cleared by:

■ Replacing paper or closing cover.

■ On friction feed printers, if a partially full paper roll is installed, it may be necessary to depress the ROLL OFF key on the paper roll support. See Page 28.

■ When flashing key:

ROLL OFF key.  
Depressing LOCAL/FAX key.  
Turning off power.

Note: In some systems, the aALARM key may be flashing during normal operation anticipated by printing. Unless otherwise instructed, the alarm should be cleared after extended periods of flashing. See Page 28.

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An independent test of the printer is provided for use by automated or field service personnel. Test consists of continuous printing of the 84 character pattern set, as shown below. Heating test, self rings and automatic prints of carriage and line feed is performed using sample textfile1. Test should not be performed in Data mode since Data mode will be terminated and a timeout will occur if disengaged. Depression of PAPERLESS TEST key initiates test. Test is terminated when this key is released. See Page 10 through 13 and 17 for keys that field service must utilize and

[View Details](#)



The proper position of the key depends on system equipment. The remote reader may or may not be equipped to read control bytes from parity. The 421 interpreter reads control as binary handled, Option 22a. When PARITY key is on, characters received with incorrect parity will print as substitute character symbol **#**, when parity is off, the character that is received will be printed or performed if it is a printable character or a valid function. The PARITY key alternately looks above (22) for parity off or below for the parity off no parity checking mode.

When backtrace of stacktrace ends for record of any section exception that does not have been-reloaded, if all memory areas are free then all characters, a character will be skipped (not printed) until stack, except for the new line that prints a new cycle of printing.



**Half-Duplex (stop-and-go) —** printed copies distributed and sorted. The printer goes off-line to receive transmission from the local telephone while receiving messages simultaneously from the remote center. This mode is known as Full Duplex Class division - 1250.

Note: The local CHAIF function will not be present in the final version.



In Half-Steples, the pitcher expects all this now and expected that only one stroke can operate at a time without interference, i.e., clearance from the keyboard will be inhibited if the next is receiving an input. The key held down or released etc.



In order to communicate in the Data mode, the transmission rates of the sending and receiving stations must be the same. This key alternately looks down at column 4 and up at the column operating speed of the station to either 30 bytes up or 18 (key three. - D8) characters per second (300 or 100 words per minute).

## SPECIAL KEYWORD CHARACTERS

- Codes for the following characters are generated from the 40 Teletypewriter keyboard by use of the **CTRL** key and the key with the symbol shown, operated together.

These characters are not functional in the Model 40 Teletypewriter but may be used in some systems.

DEL	EM	US	FF	DEL
ETB	PLAK	ROM	PF	ETB
BSQ	HT	ESC	US	BS
DC1	EI	ACN	CAN	DC1
DC4	SLA	RS	ETB	DC4

- The special escape sequences listed below (in addition to those on Page 41) are functional in the 40 Teletypewriter by sending (or receiving) the character immediately following the escape character (**ESC** key).

Use of other escape sequences are system dependent. (Characters following **ESC** will not print).

**ESC D** : Assume Loop-Back  
**ESC E** : Digital Loop-Back  
**ESC C** : Clean ribbon Loop-Back  
**ESC M** : Reverse carriage and  
paper advances one line.

Completely close-  
looped copy on  
all transports  
with a directly  
connected multi-  
value telephone.  
Shows lines  
gray still black.

Used under control of remote station.

Transmit speed varies depending on 20, 30 cps or  
less and approximately 30 cps faster.

- The modular telephone directly connected to the AII Telephone is used in accordance with the originating, connecting and disconnecting procedures on Pages 4 and 17. In these arrangements other phones cannot be used to originate data calls. The phone may be off hook or extension and therefore would be subject to the limitations of extension telephones, for example:
  - Lifting handset, dialing or talking from extension-line interface with data transmission.
  - Calls may not be disconnected if the extension is off-hook.
- In some cases, the modular phone may be a "designated" extension of a key telephone set. These connections may be arranged for use of certain features to prevent interference from other phones. The installer should indicate the presence of any extension phones on the directory card.
- Key telephones may be associated with external data sets connected to the terminal. Use of these phones to originate and answer calls and data calls are under the control of the data set and should be specified locally.

## WHEN TROUBLE OCCURS

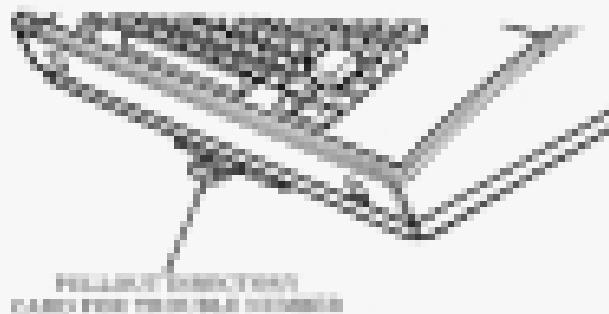
Trouble that is associated with the treated should be reported as locally specified. A number to be called in case of trouble may be placed on the sheet kept and followed by the treated.

If it can be determined that the trouble is in the remote equipment, the operator of the treated (treated should follow local procedures for that area).

The following table of analysis questions is intended to aid in the isolation of a trouble item:

- Local correction,
- Correction at the remote location,
- Advertising service personnel in advance of trouble via an 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" directions on the following pages.

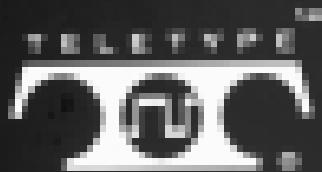


ANALYSIS QUESTION	YES	NO
1. Are one or more power communication modules faulty? • LOCAL or LOCAL/RAIL • RIBTA • INTERNAL RECEIPT or AUTOP-ANSWER	QD-10.2.	<ol style="list-style-type: none"> <li>Check that power switch is on.</li> <li>Check that power cord is connected.</li> <li>Check source of power. (Wall switch, other equipment O/C, circuit breaker, etc.)</li> <li>Report as local trouble in equipment.</li> </ol>
2. Does test message print properly while the P-100000 TEST log is displayed (see Fig. 2)?	QD-10.4.	QD-10.5.
3. Is red lamp on power supply LED visible through slot in handle (not from the left).  	Report as local trouble in power.	Report as local trouble in power supply.
4. Does printer respond properly to keyboard operation? (Local Talk model)	QD-10.5-on terminals with a straight connection telephone, QD-10.11. For other arrangements.	Report as local trouble in keyboard.

ANALYSIS QUESTION	R.E.	R.D.
II. Does phone respond properly to handset operation in Answer Lamp-Flash model (i.e., print double or half duplex?) (Extracted from telephone in Local Test mode by RRD) → response, ended by RRD → (Response: DATA key lit/light... R.LAMP key flashes.)	Go to 8.	Report as local trouble in "model".
III. Does telephone operate normally in the Local Test model? (Dial tone, ringing, ringing, talk)	Go to 9.	<ol style="list-style-type: none"> <li>1. Check that machine results are transferred as soon as telephone goes on phone.</li> <li>2. Go to 4.</li> </ol>
IV. Does telephone operate normally when connected directly to line? (i.e., machine result from line transferred to phone)	Report as local trouble in telephone.	Report as local trouble in telephone.
V. Does phone ring repeatedly in Automatic Answer model? (i.e., LAMP key not lit.)	Report as service trouble in telephone.	Go to 6.
VI. Does DATA key light following call in Automatic Answer or when DATA key is depressed after originating call? (Machine result established.)	Go to 13.	<ol style="list-style-type: none"> <li>1. Operate telephone until data key goes to Data mode.</li> <li>2. Check that machine results are not received, i.e., telephone should go to phone.</li> <li>3. If they do not have no lights, report as trouble in telephone.</li> <li>4. Go to 14.</li> </ol>

QUESTION	YES	NO
10. Is proper time-based or timestamped (high time of remote party received the call automatically or transferred to date.)	Report as another breaking in Interpreter. (Call done and transfer to Date mode.)	Transfer may be to remote station. (Call done and transfer to Date.)
11. Are date messages properly sent and received in the Date mode?	No to 10.	<ol style="list-style-type: none"> <li>1. Check proper speed, QLLINK and PABX line positions.</li> <li>2. Check that ENTRY level is off.</li> <li>3. Report an earliest possible time in Interpreter without breaking connection with early user stations.</li> </ol>
12. Is recipient present (not muted) for Questions 1 through 10?	Report earliest breaking as specified in both Interpreter modes.	

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TELEVISION TEST PATTERN  
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