

SIEMENS

Teleprinter Model 1000 mil

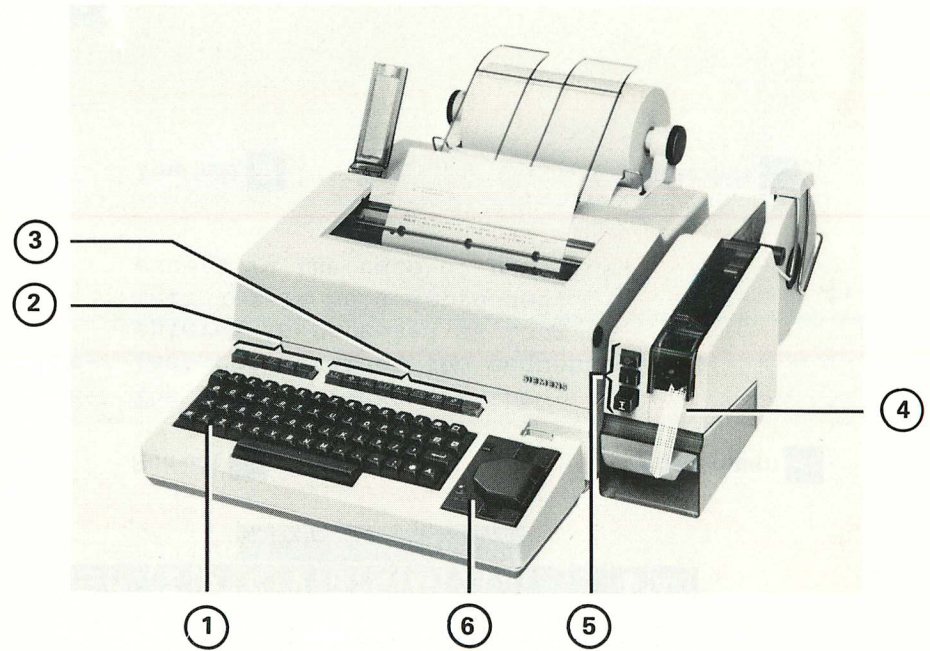
Operating Instructions

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1 TELEPRINTER



- ① Keyboard
- ② Manual communications controls
- ③ Manual device controls
- ④ Tape punch
- ⑤ Tape punch control buttons
- ⑥ Tape reader


2 KEYBOARD CONTROLS

2.1 Keyboard




Bell 

The distant station operator is called to the teleprinter.







Run-out 

The last character or the last character of the sequence entered is repeated as long as this key is held depressed, except in the case of new line.

Carriage return 

New line 

Depending on the programming, this key generates the character sequences

  ,    or   

Line feed 

Figures shift 

Who-are-you ✖

Answerback code of the distant station is requested and printed.

Space



Letters shift A...

Also for setting up a connection via point-to-point circuit and for correcting the paper tape.

2.2 Manual communications controls



Call button



Local (off-line)
button



Disconnect button

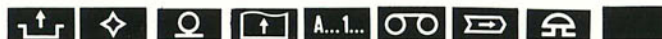


On-line mode hold button



Not assigned

2.3 Manual device controls



**Unblock keyboard
button**

Blocking of keyboard is indicated by lamp if

1. maximum typing speed is exceeded
- deletion by pressing the unblock keyboard button;
2. line end is reached
- deletion by pressing the carriage return key.



Here-is button

The answerback of home station is transmitted and printed out.



Printer ON/OFF button

Printer is deactivated, tape punch is activated and all characters received are punched (including Figs. side D).



Paper feed button

The paper of the home machine only is fed forward for as long as the button is held depressed. When the paper feed button is pressed briefly, the paper is advanced by 1/4 of the line spacing.



Output inhibition button

Text is read, but not printed, punched or sent.



Letters/figures shift button

Effective only for the home machine and shifts it from upper case to lower case and vice versa.



Reset alarm button

Bell alarm is deactivated.



Data medium ON button

Tape punch is constantly ON.



Answerback inhibition switch

The answerback code cannot be called in by the distant station.

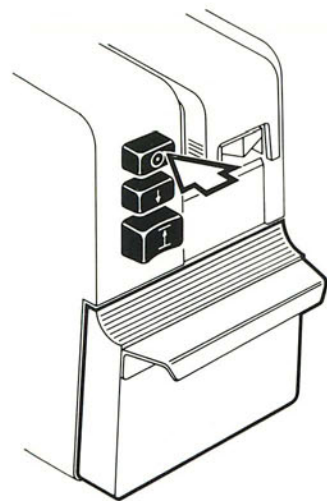


Power ON indicator

Lamp lights to indicate
that ac power voltage
is applied.

3 LOCAL MODE

3.1 Preparation of a perforated tape



1. Press local button.

Lamp comes on.



Printer carriage moves to beginning-of-line position.

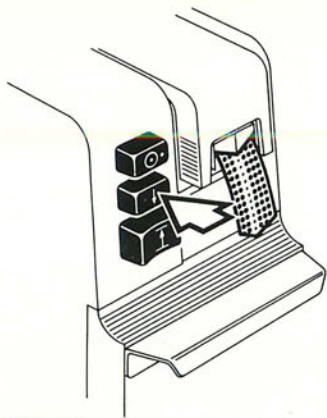
Paper is advanced by one line.

Internal illumination is turned on.

2. Press punch ON/OFF button

Lamp comes on.





or



3. Hold tape feed button depressed until several LTRS code combinations (5 x hole) have been punched.

4. Press new line key.

Paper is advanced by one line.

Character commands are punched according to programming:

CR LF CR

or

CR LF

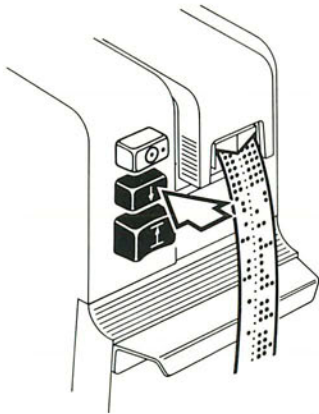
or

CR CR LF

or

Press carriage return and line feed keys.

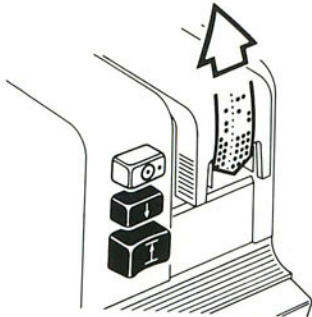




5. Enter text by means of keyboard.

Text is punched and printed.

6. Hold tape feed button depressed until several LTRS code combinations (5 x hole) have been punched.



7. Tear the tape off by pulling it upwards.



8. Press disconnect button

The lamps in the local and punch ON/OFF buttons go dark.



Punch disconnects when the data medium ON button is not depressed.

Note:

Off-line operation is interrupted by an incoming message.

The on-line mode is activated.

After each depression of the tape feed button the corresponding case shift key (**A...** or **I...**) on the keyboard must be pressed before typing is continued.

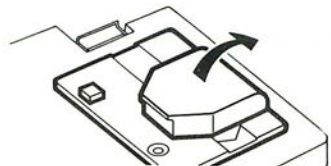
Possible functions:

Tape verification

Tape duplication

Printer deactivation.

3.2 Verification of a perforated tape



1. Press local button.

Lamp comes on.



Printer carriage moves to beginning-of-line position.

Paper is advanced by one line.

Internal illumination is turned on.

2. Open tape retainer lid of tape reader.

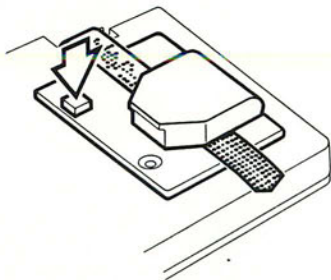
3. Insert perforated tape and press it down.

Close tape retainer lid.

Observe direction of tape feed:

Two rows to the left and three rows to the right of the feed hole row.

The pins of the sprocket wheel must engage in the feed holes.



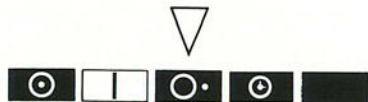
4. Press ON/OFF button of tape reader.

Lamp comes on.



Tape is read and its contents printed.

When the end of the tape is reached, the reader stops automatically.

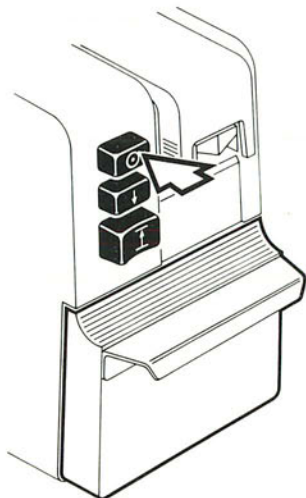


5. Press disconnect button.

Lamp goes dark.



3.3 Duplication of a perforated tape



1. Press local button.

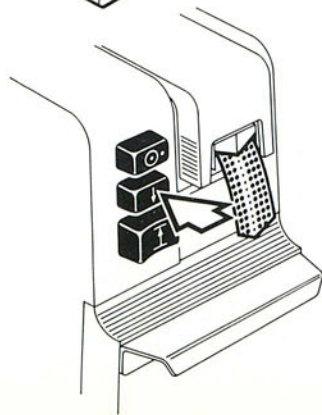
Lamp comes on.



Printer carriage moves to beginning-of-line position.

Paper is advanced by one line.

Internal illumination is turned on.

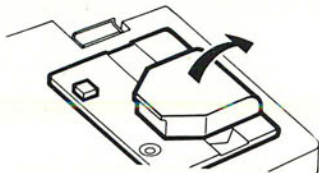


2. Press ON/OFF button of tape punch.

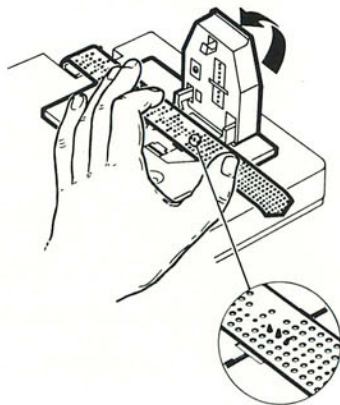
Lamp comes on.



3. Hold tape feed button depressed until several LTRS code combinations (5 x hole) have been punched.

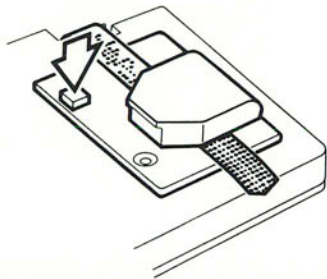


4. Open tape retainer lid of tape reader.



5. Insert perforated tape and press it down.

Close tape retainer lid.



6. Press ON/OFF button of tape reader.

Observe direction of tape feed:

Two rows to the left and three rows to the right of the feed hole row.

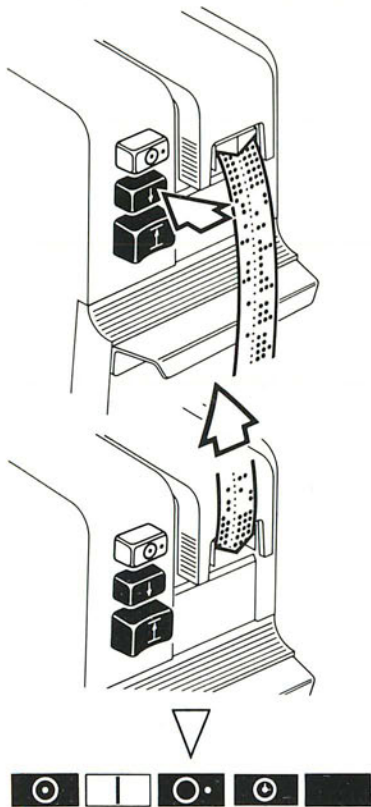
The pins of the sprocket wheel must engage in the feed holes.

Lamp comes on.



Tape is read, the text is printed, and a new tape is punched.

When the end of the tape is reached, the reader stops automatically.



7. Hold tape feed button depressed until several LTRS code combinations (5 x hole) have been punched.

8. Tear the tape off by pulling it upwards.

9. Depress disconnect button.

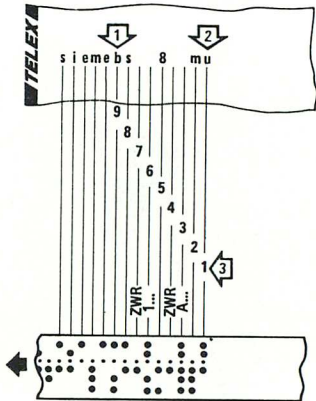
The lamps in the local and punch ON/OFF buttons go dark.



Possible functions:

Printer deactivation.

3.4 Correction of a perforated tape by overpunching



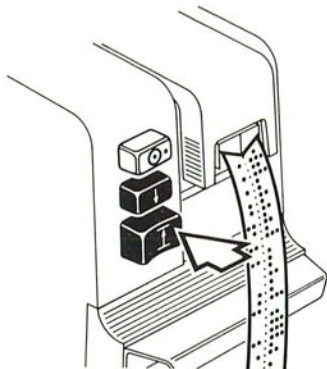
1. Wrong character keyed here.

2. Wrong character detected here.


3. Counting the character spaces from

↘ → ↙



Result: 9 character spaces.



4. Press backspace button 9 times as far as it will go.

Note: When changing the line with the new line key  :

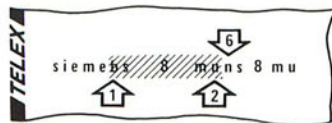
Press backspace button 2 or 3 times depending on programming (See Section 3.1, point 4).

When changing the line with ,  :

Press backspace button twice.

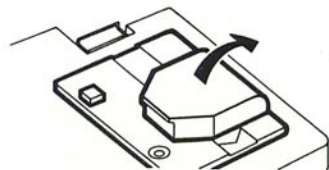
A...

5. Press letters shift key 9 times.

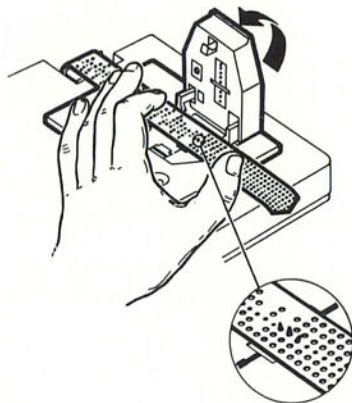


6. Type the incorrect character correctly, retype the following text, then continue typing the message.

3.5 Correction of a perforated tape by duplicating



1. Open tape retainer lid of tape reader.



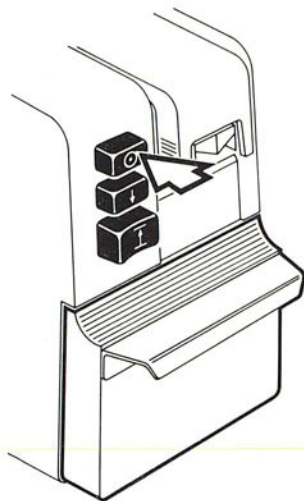
2. Insert paper tape and press it down.

Close tape retainer lid.

Observe direction of tape feed:

Two rows to the left and three rows to the right of the feed hole row.

The pins of the sprocket wheel must engage in the feed holes.



3. Press local button.

Lamp comes on.




Printer carriage moves to beginning-of-line position.

Paper is advanced by one line.

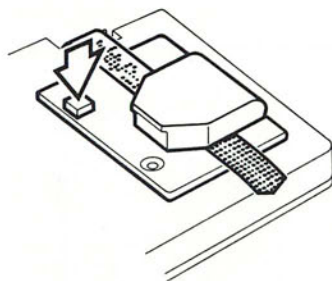
Internal illumination is turned on.

4. Press punch ON/OFF button.

(Not necessary if "data medium ON" button  is pressed.)

Lamp comes on.





5. Press ON/OFF button of tape reader.

Lamp comes on.



Tape is read, the message is printed out and a new tape is punched.


Single-character feed:
Press ON/OFF button briefly.

and

6. Depress button several characters before the first incorrect character.

Tape reader stops.

7. Briefly press reader ON/OFF button as many times as required (single character feed) until last correct character is printed.

8. Keep output inhibition button  depressed and simultaneously perform single-character feed operations until the last undesired character has been read.
Release output inhibition button.

OR:

If output inhibition button is not installed, deactivate tape punch as long as undesired characters are read.

9. Type correct characters into the keyboard if necessary.

10. Press punch ON/OFF button if output inhibition button is not installed.

11. Press ON/OFF button of tape reader.

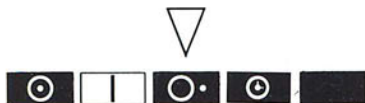
Reading of tape is continued.

When the end of the tape is reached, the reader stops automatically.

12. Press disconnect button.

The lamps in the local and punch ON/OFF buttons go dark.

Punch remains activated if the data medium ON button is depressed.



4 COMMUNICATION (e.g. via a point-to-point circuit)

4.1 Transmitting a message via the keyboard



1. Press call button.

Lamp comes on.



Printer carriage moves to beginning-of-line position.

Paper is advanced by one line.

Internal illumination is turned on.

or



Press letters shift key.



2. Press Who-are-you key.

Answerback code of distant subscriber is printed.

Answerback code is automatically printed.



3. Press Here-is key.

Local answerback code
is transmitted and printed.



or



4. Press new line key.

Printer carriage moves to
beginning-of-line position.

Paper is advanced by one
line.

or

Press carriage return and
line feed keys.



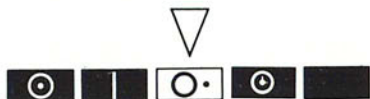
5. Type text on keyboard.

Text is transmitted and
printed.



6. Press Who-are-you key.

The answerback code of
the distant subscriber is
printed.



7. Press disconnect
button.

Lamp goes dark.



or

Teleprinter is turned off automatically 40 seconds after
transmission of the last character.

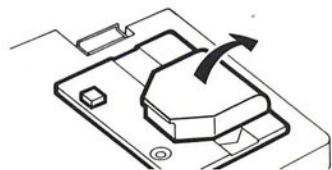
Possible functions:

Transmission of a tape

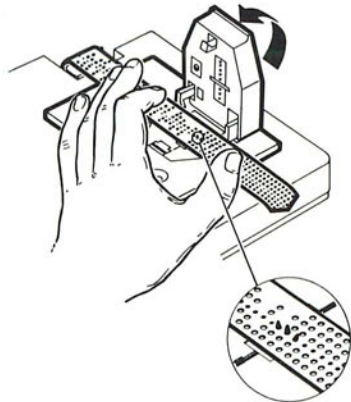
Printer deactivation

Starting continuous on-line working.

4.2 Transmitting the punched tape



1. Open tape retainer lid of tape reader.



2. Insert paper tape and press it down.

Close tape retainer lid.

Observe direction of tape feed.

Two rows to the left and three rows to the right of the feed hole row.

The pins of the sprocket wheel must engage in the feed holes.



3. Press call button.

Lamp comes on.



Printer carriage moves to beginning-of-line position.

Paper is advanced by one line.

Internal illumination is turned on.

OR



Press letters shift key.



4. Press Who-are-you key.

The answerback code of the distant subscriber is printed out.

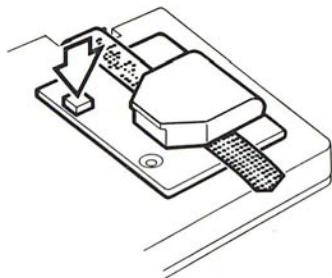


5. Press Here-is key.

The answerback code of the local station is transmitted and printed out.



or



6. Press new line key.

Printer carriage moves to beginning-of-line position.

or

Paper is advanced by one line.

Press carriage return and line feed keys.

7. Press ON/OFF button of tape reader.

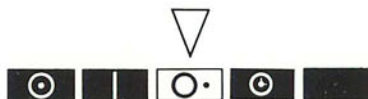
Lamp comes on.



The punched tape is read
The message is transmitted
and printed out.

Single-character feed:
Press ON/OFF button
briefly.

When the end of the tape
is reached, the reader
stops automatically.



8. Press Who-are-you key.

The answerback code of the distant subscriber is printed out.

9. Press disconnect button.

Lamp goes dark.



or

Teleprinter is turned off automatically 40 seconds after transmission of the last character.


Possible functions:

Printer deactivation

Starting continuous on-line working.


5 OPTIONAL FEATURES

Printer deactivation

Press printer ON/OFF  button.

Printer is turned off.
Tape punch is turned on.
Text is punched but not printed.

Punching the outgoing/incoming messages into paper tape.

Press data medium ON  button.

As long as button is depressed, all incoming/outgoing messages are punched into tape.

Breaking-in

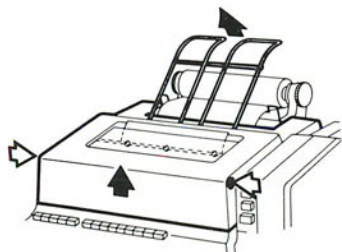
Reception of a tape message can be interrupted by the receive-station operator by pressing button **T** or **E** several times.

Starting continuous on-line working

Press on-line mode hold button **Ⓞ** while transmitting or receiving:

On-line mode can only be ended **Ⓞ•** by pressing the disconnect button.

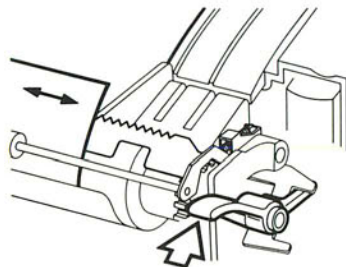
6 REPLACING THE PAPER ROLL



When a colored stripe appears on the edge of the paper, the paper roll must be replaced before the next message is sent or received.

1. Open top cover.

Swing paper deflecting frame to the front.



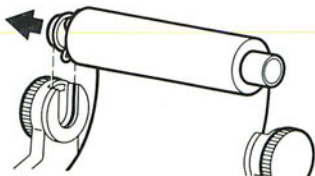
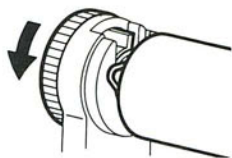
2. Move paper pressure lever backwards.

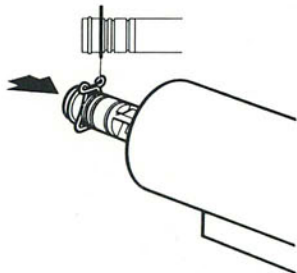
Remove the old paper roll and pull the rest of paper backwards and out.

Pull paper roll axle out of the old roll.

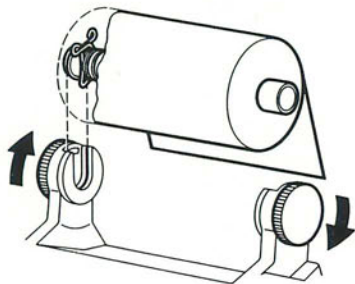
For mobile use only:

Unlatch paper roll axle on both sides.

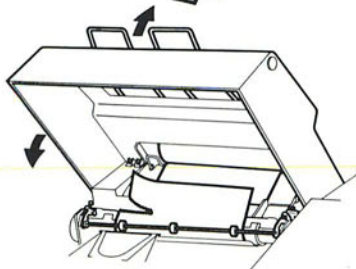
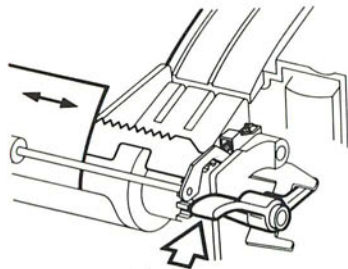
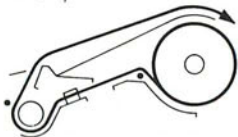
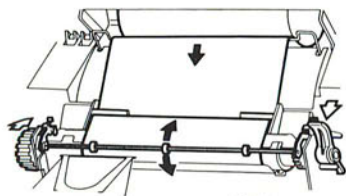




3. Push the paper roll axle into the new paper roll until it makes contact with the wire clip. The paper must unwind as shown in the picture. The wire clip always rests in the outermost groove.



4. Load the new paper roll into the holder. Ring-shaped collar must always rest in the groove of the left-hand roll holder.
- (Latch the paper roll when the teleprinter is in mobile use.)



5. Feed the paper over the pull relief rod and insert it under the platen.

Swing the paper pressure lever to the front.

Swing the paper pressure rod upwards.

Wind the paper around the platen and feed it under the paper pressure rod.

Swing the paper pressure rod downwards.

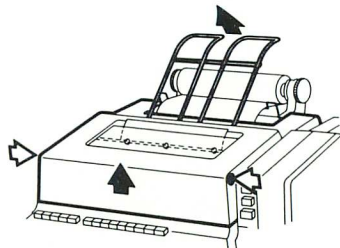
(To align the paper, swing the paper pressure lever backwards.)

6. Tear off paper along the tear-off edge.

Close top cover.

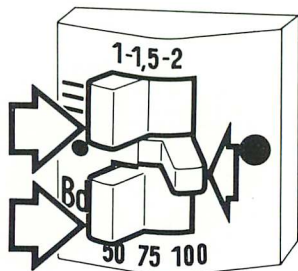
Move paper deflecting frame backwards.

7 ADJUSTING THE LINE SPACING, PRINT FORCE AND SIGNALLING SPEED



1. Open top cover.

Swing paper deflecting frame to the front.



2. Line spacing

1: single line spacing

1,5: 1 1/2 line spacing

2: double line spacing

3. Print force

Left position of lever: single copy
(no carbon copy)

Right position of lever: up to four copies
(up to three carbon
copies)

4. Signalling speed

50: signalling speed 50 bauds

75: signalling speed 75 bauds

100: signalling speed 100 bauds

8 REPLACING THE PAPER TAPE ROLL

When the colored warning stripe becomes visible while the tape is being unwound, the paper tape roll must be changed before the next message is sent or received.

1. Swing guide rod upwards.

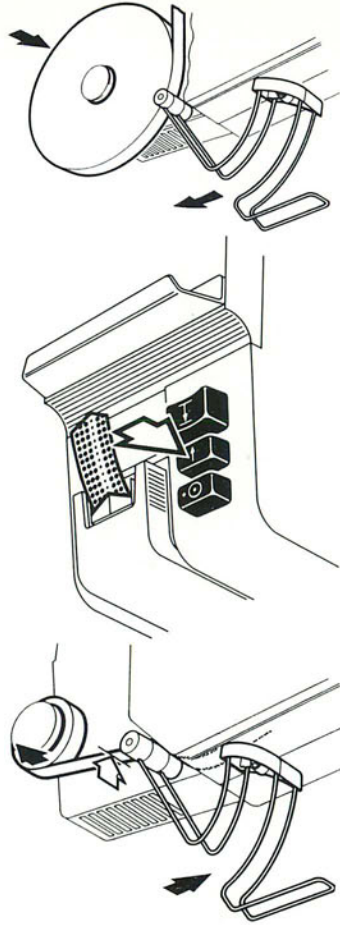
Tear off paper tape.

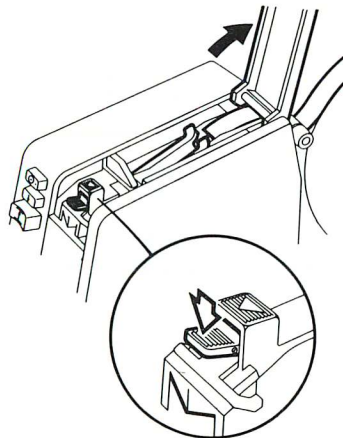
Remove the old tape roll from core.

2. Press the tape feed button until the rest of paper tape has run out of the tape punch.

3. Place the new paper tape roll over core. The tape must unwind as shown in the picture.

Swing guide rod back into position.



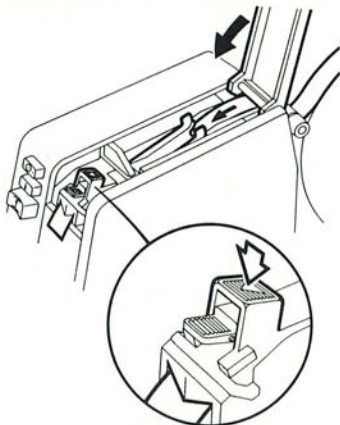


4. Advance paper tape in the tape punch until it has reached the beginning of the tape guide.

Open the cover.

Press on tape gate.

The tape gate swings upwards.

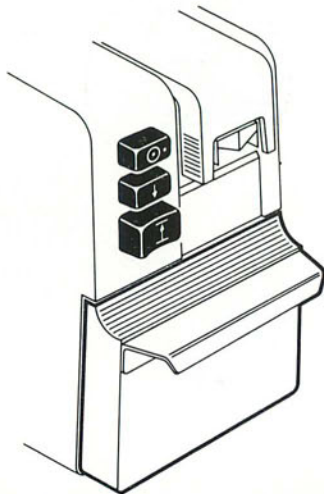


5. Push the tape further until it emerges from the punch at the front.

Press on the tape gate. The tape gate latches. The tape is automatically fed forward by 32 spaces and punched (5-hole combinations).

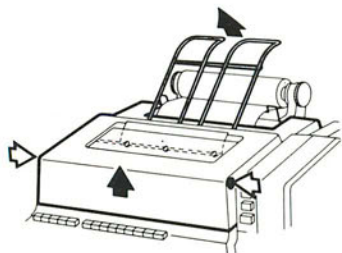
Close the cover.

Tear off punched tape upwards.



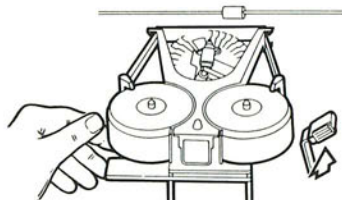
6. Pull chad waste box out to the front and empty. (Do this every time the tape roll is changed.)

9 REPLACING THE INK RIBBON

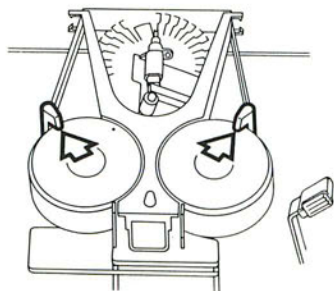


1. Open top cover.

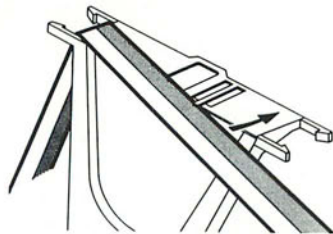
Swing paper deflecting frame to the front.



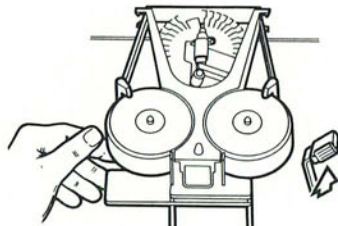
2. Press lever backwards and swing the printing mechanism upwards until it latches.



3. Press lever in the direction of the arrow and pull ribbon spools off the guide pins. Remove ink ribbon from lateral guides and pull upwards and out of guide plate slot.



4. Hook free ribbon end of new ribbon spool to an empty spool just as you do when replacing a typewriter ribbon. Place one ribbon spool in position. Ensure red side of ribbon points upwards. Insert ink ribbon in the first lateral guide on the ribbon guide fork, in the guide plate slot and the second lateral guide. Install second ribbon spool.



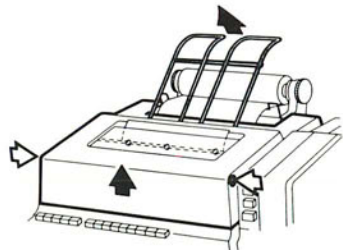
5. Press lever backwards. Printing mechanism swings downwards and latches.

6. Tear paper off along the tear-off edge.

Close top cover.

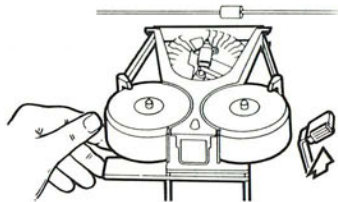
Move paper deflecting frame backwards.

10 REPLACING THE PRINTWHEEL

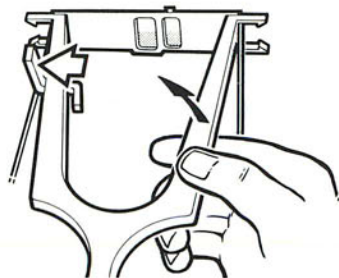


1. Open top cover.

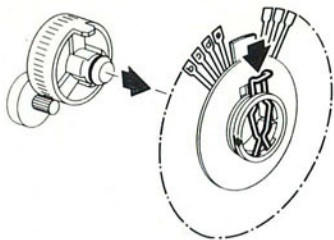
Swing paper deflecting frame to the front.



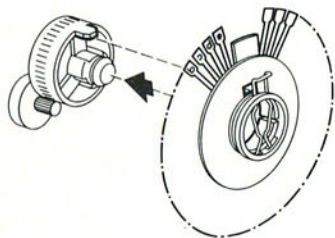
2. Press lever backwards and swing the printing mechanism upwards until it latches.



3. Disengage ribbon guide fork and swing upwards.



4. Press down wire clip radially and pull off printwheel in the direction of the arrow.

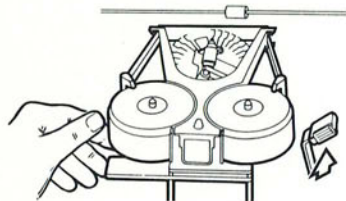


5. Push the new printwheel in until it locks in position.
(The driver must engage in the appropriate opening of the printwheel.)

6. Swing ribbon guide fork downwards.

Ribbon guide fork is locked in position.

7. Press lever backwards. Printing mechanism swings downwards and latches.



8. Tear paper off along the tear-off edge.

Close top cover.

Move paper deflecting frame backwards.

11 CLEANING THE TELEPRINTER

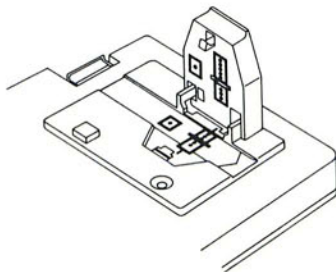
If required, the exterior of the teleprinter can be cleaned:

when dusty: using dust cloth or dust brush

when contaminated slightly: using soapwater or washing-up liquids

when contaminated heavily: using white spirit or Freon TF
(manufacturer: Du Pont)

(Do not clean the viewing window by using cleaning agents containing white spirit or alcohol.)



Cleaning the tape reader

Open tape retainer lid.
Clean reading position with soft cloth.
Close tape retainer lid.

12 ORDERING DATA

Paper roll

Roll as per
DIN Std. 6720

Paper with:
209 or 216 mm

Number of plies:
max. 4 (when multi-
ply paper is used,
ensure original is
outermost)

Outer diameter of
roll:
120 mm (or 170 mm
with accessory parts
for holder)

Paper tape roll

1. Ordering data as
per DIN Std.

Paper L3 DIN 6720
(0.1 mm thick, oiled)
or

Paper L1 DIN 6720
(0.08 mm thick,
unoiled)

2. Ordering data for
ISO quality

Paper tape roll as
per ISO 1729

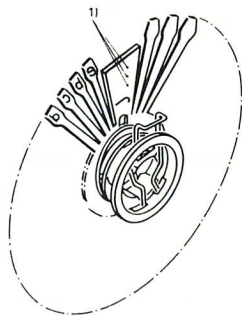
Paper tape:
17.4 mm wide
0.1 mm thick

Ink ribbon

Usable are commercially
available ink ribbons,
nylon, black or black/red,
without ribbon-reverse
actuator

1. We recommend ordering
from Siemens AG
Ordering nos:
C20136-Z14-C967
(nylon ribbon, black)
or
C20136-Z14-C968
(nylon ribbon,
black/red)

2. Ordering nos. as per DIN
Ink ribbon SM 13x54
DIN 2103-N-sw
(nylon ribbon, black)
or
Ink ribbon SM 13x54
DIN 2103-N-sw/rt
(nylon ribbon, black/red)



Printwheel

Ordering number: S22711-J1-J¹⁾

1) Read figures from printwheel

**Please address your orders to your local
Siemens representatives.**

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Issued by

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