

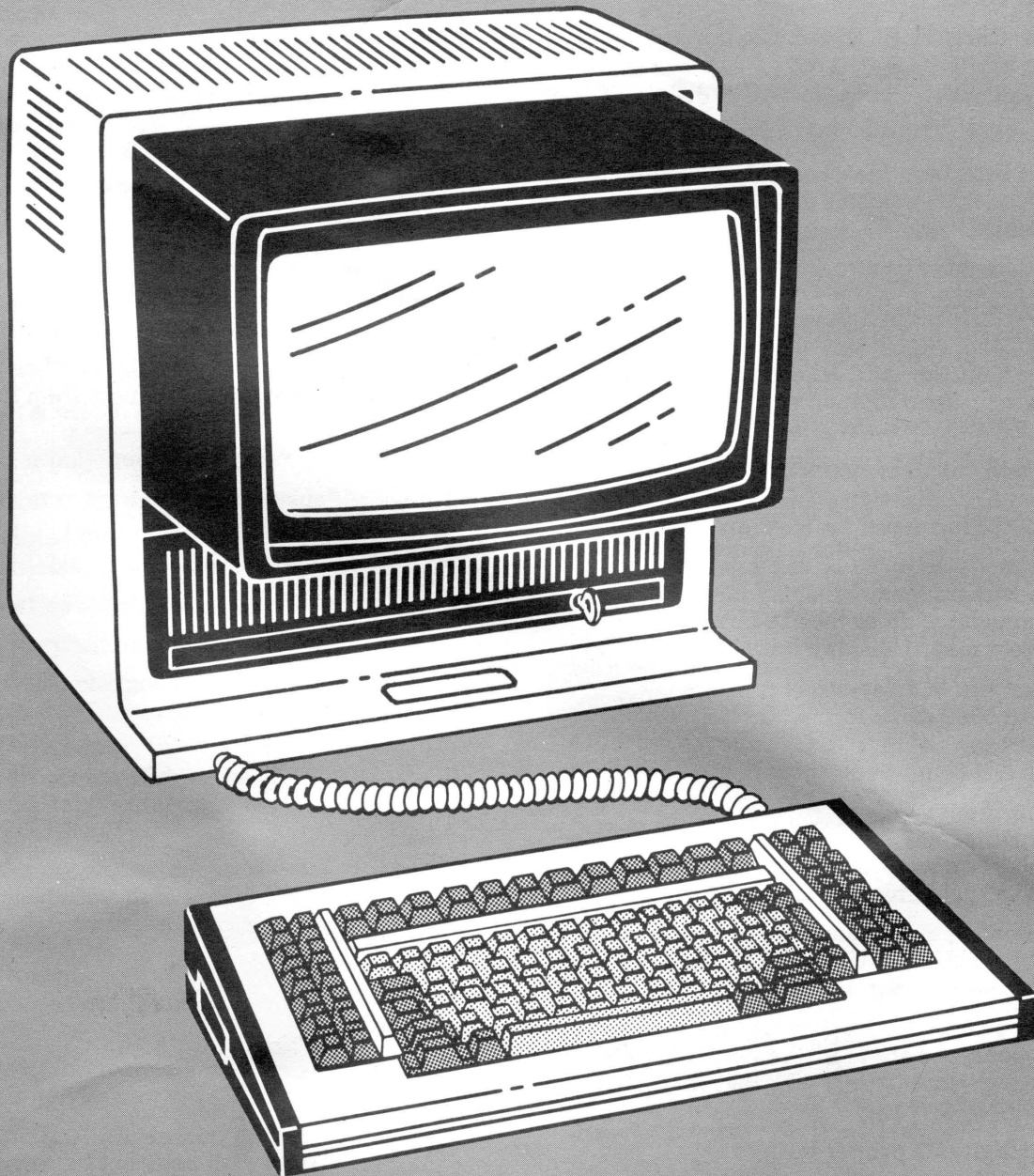
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**3270-Compatible
Information Display System**



AT&T
Teletype Corporation

Features and Selection Guide



February 1984

Standard Features

GENERAL

Remote SNA protocol: FID2, PU2, LU1, 2&3.
SSCP-PU & SSCP-LU: FMP0, TSP1.
LU-LU: FMP3, TSP3

Remote BSC protocol: ANSI X3.28-1971/2.4B2

Compatibility: 3274 C-type,
3178, 3278-2&5, 3287-1&2 & 3289

Non-simultaneous send-receive
via 4-wire multi-point private line
or digital service; using (if SNA) SDLC

Bit encoding: Direct (NRZ) or (if SNA) NRZI

Code & Error Check: EBCDIC & CRC
or (if BSC) EBCDIC & CRC or
ASCII & Odd Vert. Parity + LRC

Speed: 2400, 4800, 7200 or 9600 bps, sync.

EIA (RS232) Interface: Matches 201, 208, 209,
2024, 2048 or 2096 modems or 500A DSUs,
or equivalent

Keyboard-selectable diskette-stored options

Modular design with built-in
station & device diagnostics

115 VAC at 50/60 Hz

CONTROLLER

Protocol, options & other firmware
loaded from 5¼" diskette.
Spare diskette furnished for back-up

5544: Accommodates up to 16 or 32 devices;
4 or 8 printers max, 1 display min.

5546: Accommodates up to 6 or 12 devices;
4 printers max, 1 display min.

Displays & matrix & daisy-wheel printers
can be up to 5000 cable ft,
belt printers can be up to 2000 cable ft,
& modems can be up to 50 cable ft from controller

Device connection via:
2-twisted-pair cable,
coaxial cable (via adapters),
&/or under-carpet cable (via adapters)

Performs following SNA commands (if SNA):
ActPU, DActPU, ActLU, DActLU, Bind, UnBind,
SDT, Clear, ShutD, Sig, Bid, Cancel, Chase
& ReqMS

Provides responses to above SNA commands (if SNA);
plus following: ShutC, RecFMS, Sig, RTR,
Cancel, LUStat & Notify

Contains & maintains printer buffers

5544: Has space for modem in cabinet

Includes 9-ft modem cable & 10-ft power cord

Diskette loading & loaded indicators

Send & receive status indicators

DISPLAY

5548-12:
Displays 95 up-low or 64 monospace
characters on 12"-diagonal screen

5548-22 & 25:
Displays 95 up-low or 64 monospace
characters on 7" x 13" screen

5548-12:
Displays char's via 7x9 within 9x11
dot-matrix, with 24x80 format
plus
User/Status info on line 26

5548-22:
Displays char's via 7x9 within 9x14
dot-matrix, with 24x80 format
plus
User/Status info on line 26

5548-25:
Displays char's via 7x9 within 9x14
or 5x7 within 7x10 dot-matrix,
with 24x80 or 27x132 format, respectively,
plus
User/Status info on line 26 or 29

5548: Display response time data on line above
User/Status info line on request from keyboard

4503: Displays 95 up-low or 64 monospace characters on 7"x13" screen

4503: Displays char's via 7x9 within 9x14 dot-matrix, with 24x80 format plus User/Status info on line 25 (only with TU keyboard if BSC)

User/Status Info Line includes cursor row & column number

Display refreshed 60 times/sec

Display can be formatted into fields by receipt of attribute characters. Each can be:

- Protected (from user entry)
- Highlighted (intensified)
- Selectable (by user)
- Numeric
- Modified (by user entry)
- Hidden (not displayed or printed)

Performs following Commands & Orders:

- Read All, Read Modified, Read Modified All (if SNA),
- Write, Erase-Write, Erase-Write Alternate
- Erase All Unprotected, Copy (if BSC), Start Field.
- Set Buffer Address, Insert Cursor, Program Tab, Repeat to Address, & Erase Unprotected to Address, many of which translate into features listed above & below

Send all data or only modified fields*

Erase all data or only unprotected fields*

Erase unprotected data between specifiable screen addresses*

Display data at specifiable screen address*

Move cursor to specifiable screen address*

Repeat specifiable character between specifiable screen addresses*

Erase unprotected data from specifiable screen address to end of field & tab to start of next unprotected field*

Data wraps during character insert & cursor wraps during data entry. 4503: Data wraps during character delete

Performs auto-skip

Selectable fields selected via Cursor Select key

Numeric lock option restricts data entry to 0 to 9, -, ., & DUP

Cursor Up, Dn, L (Back Space), R, Tab, Back Tab, Home & New Line (NL) keys

Erase EOF key erases to end of field.

Erase & Tab key (Tab on T & ENC keyboards) erases to end of field & tabs

Char Delete & Insert keys. Character Insert causes space for insert or mode in which char's inserted as entered

Erase Input (unprotected data) & Clear (all data) keys

T & ENC keyboards: Local, Send/Receive, Shift, Control & Caps Lock keys

TU, T5 & ENC5 keyboards: Reset, Enter, Shift, Alt & Caps Lock keys

INC5 keyboard: Reset, Enter, Numeric, Alt & Num Lock keys

Local Test key

Duplicate & Field Mark keys

T & ENC repeatable keys: Cursor Up, Dn, L, R, ., -, Space, >, Del & Ins

TU, T5, INC5 & ENC5 repeatable keys: All except functions

ENC also has Repeat key

24 PF & 2 (3 on INC5) PA keys

Keyboard error tone. Also can be sounded*, until Local or Reset depressed

MSBR on wide ENC keyboard (if BSC): Causes up to 40 char's of hidden data to be entered on & sent from display. Badge & Stripe must conform to ANSI X4.13-1971 & X4.16-1976/2ABA

Attention & System Request keys (if SNA)

T5, INC5 & ENC5: Keyboard selectable key-click

Ident key to identify printer or class of printers to perform Print Local

5548: Keyboard selectable block or underline cursor with optional blink

5548: Keylock, on display. Prevents all display operation & turns off screen except for User/Status Line

5548: Screen tilt & brightness controls.

4503: Screen tilt, brightness & on-off

Keyboard can be up to 4½ ft from display

5548 & 4503, respectively, include 7½ & 9½ ft power cord

5548: Keyboard not req'd if display used as monitor

5548: 115 VAC @ 48-62 Hz

4503: 115 VAC @ 58-62 Hz (See Accessories for 48-62 Hz)

*under computer control

PRINTER

Prints protected & unprotected data from display determined by keyboard-selectable printer authorization matrix (PAM), via Print Local key or*

Belt Printer

300 or 220 lpm†
at 80 or 132 char/line, respectively

Full-character impact-printing via 80 or 132 print-hammers striking multiple-character-set typecarrier belt

Prints 10 char/in & 6 line/in,
adjustable for double line feed

Friction Feed: Prints on standard
8½-in single-ply rolled paper

Tractor Feed: Prints up to 6-part fan-folded forms.
Adjustable for forms 4 to 9½ or 15-in wide;
3-2/3, 5½ or 11-in long
(See Accessories for other lengths)

Forms Access: Prints up to 6-part fan-folded forms.
Adjustable for forms 4 to 9-1/8-in wide;
3-2/3, 5½ or 11-in long
(See Accessories for other lengths)

Feeds multiple lines at 8 in/sec

Feedout 2, 16 or 35 lines to tear off below last
printed line on forms access, friction or
tractor feed printer, respectively

Form feed (if tractor feed printer),
feed out 16 lines, or do neither
on reaching FF at start of print line

Bottom paper-loading

Spool-loaded print-ribbon

Low-paper/paper-out indicator

Form feed-out key

Includes 6-ft power cord

Matrix Printer

30 cps: 15, 25 or 45 lpm†
at 132, 72 or 49 char/line, respectively

Impact-prints 4x7 dot-matrix characters
with 7x9 definition via 9-wire print-head

Print wires spring-driven, magnetically-held
& electrically-released for low power usage

Prints 10 char/in & 6 line/in

Tractor feed

Prints up to 6-part fan-folded forms.
Adjustable for forms 3 to 15-in wide; 11-in long
(See Accessories for other lengths)

Feeds multiple lines 5 in/sec

Form feeds on reaching FF at start of print line

Rear paper loading

Cartridge-loaded print-ribbon with re-inker

Includes 6-ft power cord

High-Speed Matrix Printer

340 cps: 125, 200 or 300 lpm†
at 132, 72 or 40 char/line, respectively

Impact-prints 4x7 dot-matrix characters
with 7x7 definition via 2-col, 14-wire print-head

Bi-directional printing

Prints 5, 10 or 16.7 char/in
at 6 or 8 line/in

Tractor feed

Prints up to 6-part fan-folded forms.
Adjustable for forms 3 to 16-in wide;
3, 3½, 4, 5½, 6, 7, 8, 8½, 11, 12 or 14-in long

Feeds multiple lines at 10 in/sec

Performs form-feed or new-line
on reaching FF at start of print line

Performs 0, 3, 4 or 6-line
form perforation skip-over

Cartridge-loaded print-ribbon

Front or bottom paper loading

2-digit status read-out to indicate
printer ready, paper out, cover open,
bail up & several maintenance conditions

Form feed-out key

Includes 6-ft power cord

*under computer control

†if not limited by operational
or system characteristics

Daisy-Wheel Printer

55 cps: 20, 40, or 70 lpm†
at 132, 72 or 40 char/line, respectively

Full-character impact-printing via
solenoid-driven print-hammer
striking multi-element daisy-wheel

Bi-directional printing option

Prints 10, 12 or 15 char/in
at 3, 6 or 8 line/in

User-removable tractor feed

Prints up to 6-part fan-folded forms.
Adjustable for forms 3 to 15-in wide;
3, 3½, 4, 5½, 6, 7, 8, 8½ or 11-in long

Feeds multiple lines at 5 in/sec

Form feeds on reaching FF at start of print line

Rear paper loading

Cartridge-loaded print-ribbon

Paper out, ribbon out &/or cover open indicator

Stop printer on paper-out option

Includes 6-ft power cord

PHYSICAL

Module		H	W	D	Wt		
Cluster Controller	Large	28½"	22"	18"	125 lbs.		
	Small	6"	16"	13"	35 lbs.		
Keyboards	Typewriter	T	4"	15½"	7½"	11 lbs.	
		TU	3½"	19"	9"	5 lbs.	
		T5	3½"	19"	9"	5 lbs.	
		T5, low	2"	18"	7"	4 lbs.	
	Int. Num Clstr	INC5, low	2"	18"	7"	4 lbs.	
	External Numeric Cluster	ENC5, low	2"	21"	7"	5 lbs.	
		ENC, nrw	4"	19½"	7½"	13 lbs.	
		ENC, wide	4"	24½"	8"	13 lbs.	
		ENC + MSBR	4"	24½"	8"	14 lbs.	
	Displays	4503	14"	16"	15"	50 lbs.	
5548-10s		15½"	17"	13½"	25 lbs.		
5548-20s		16"	17"	16"	30 lbs.		
Printers	Belt	Friction Feed	8½"	20"	17½"	80 lbs.	
		Trac. Feed	80-col	13"	20"	17½"	84 lbs.
			132-col	13"	27½"	17½"	109 lbs.
		Floor Model	42"	30"	22"	210 lbs.	
	Forms Access	34"	26"	21"	145 lbs.		
	Matrix	Table Model	10"	23"	13"	35 lbs.	
		Table Mounted	36"	28"	26"	105 lbs.	
		High-Speed	9"	27"	24"	72 lbs.	
Daisy-Wheel	10"	24½"	17"	55 lbs.			
Pedestals		25½"	20", 24½" or 27½"	17½"	44, 55 or 57 lbs.		

Optional Features

ORDERING GUIDE

5544 (Large) Clusters

Order:

5544 Cluster-Controller
for up to 16 or 32
displays &/or printers

5548 Display
to serve as master display

5548 &/or 4503 Displays,
up to 15 or 31

Controller-to-display cables

Optional:

Belt, Matrix &/or Daisy-Wheel Printers,
instead of displays except master,
up to 4 or 8 if 16 or 32-device 5544, respectively

Printer pedestals

Controller-to-printer cables

Accessories

5546 (Small) Clusters

Order:

5546 Cluster-Controller
for up to 6 or 12
displays &/or printers

5548 Display
to serve as master display

5548 &/or 4503 Displays,
up to 5 or 11

Controller-to-display cables

Optional:

Belt, Matrix &/or Daisy-Wheel Printers,
instead of displays except master,
up to 4

Printer pedestals

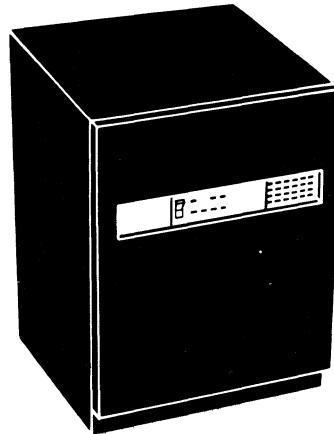
Controller-to-printer cables

Accessories

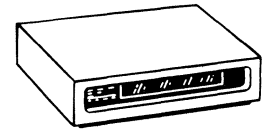
SELECTION GUIDE

5544 (Large) & 5546 (Small) Cluster-Controllers

Protocol	Code	Devices				Catalog Number
		up to 6	up to 12	up to 16	up to 32	
BSC	ASCII/ EBCDIC	•				5546-31BA
			•			5546-31BB
				•		5544-31BA
					•	5544-31BB
SNA	EBCDIC	•				5546-31SA
			•			5546-31SB
				•		5544-31SA
					•	5544-31SB



5544

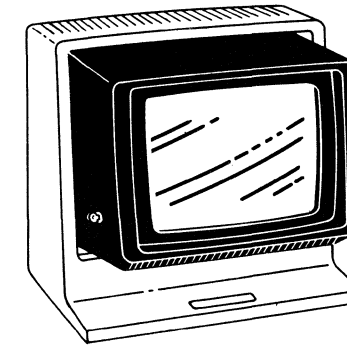


5546

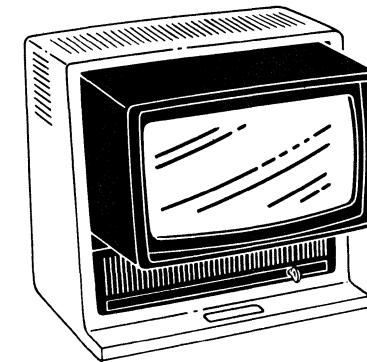
5548 Single-Color Displays

Screen Size	Display		Keyboard					Catalog Number	
	Row x Col		Typewriter	Internal Num. Cluster	External Num. Cluster	Low-Profile	Keylock		
	24 x 80	27 x 132							
12" diag.	• • • •		•			•	•	5548-12TA	
			•				•	5548-12TF	
			•		•		•	•	5548-12IA
			•			•	•	•	5548-12EA
7" x 13"	• • • • • • • •	• • • • • • • •	•			•	•	5548-22TA	
			•				•	5548-22TF	
			•		•		•	•	5548-22IA
			•			•	•	•	5548-22EA
			•	•			•	•	5548-25TA
			•	•				•	5548-25TF
			•	•		•		•	5548-25IA
			•	•			•	•	5548-25EA

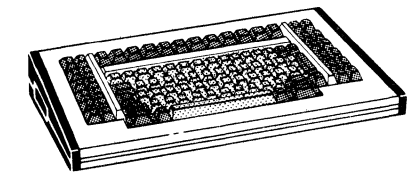
†If BSC & ASCII, order keytops per Accessories



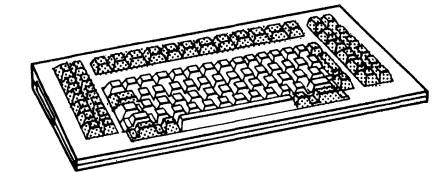
5548-10



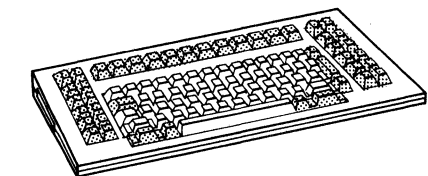
5548-20



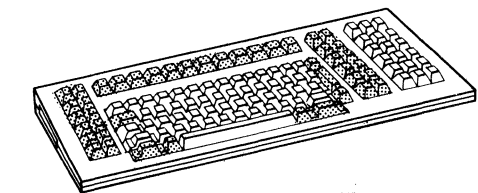
T5, high-profile



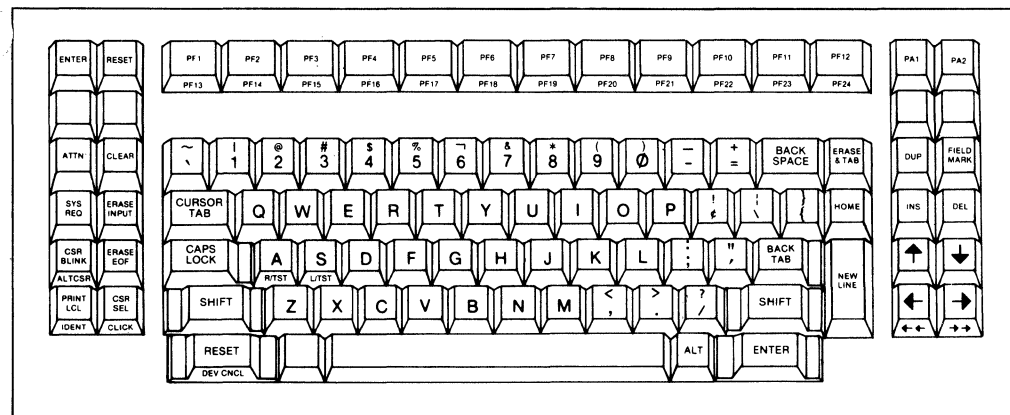
T5, low-profile



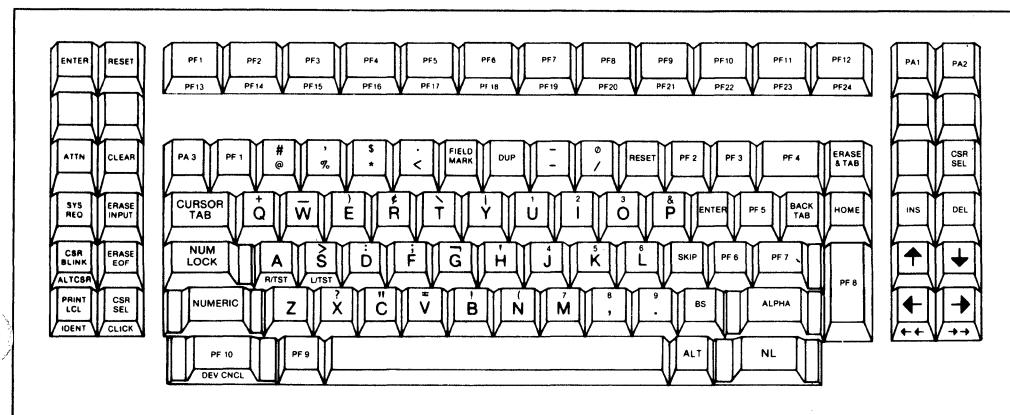
INC5, low-profile



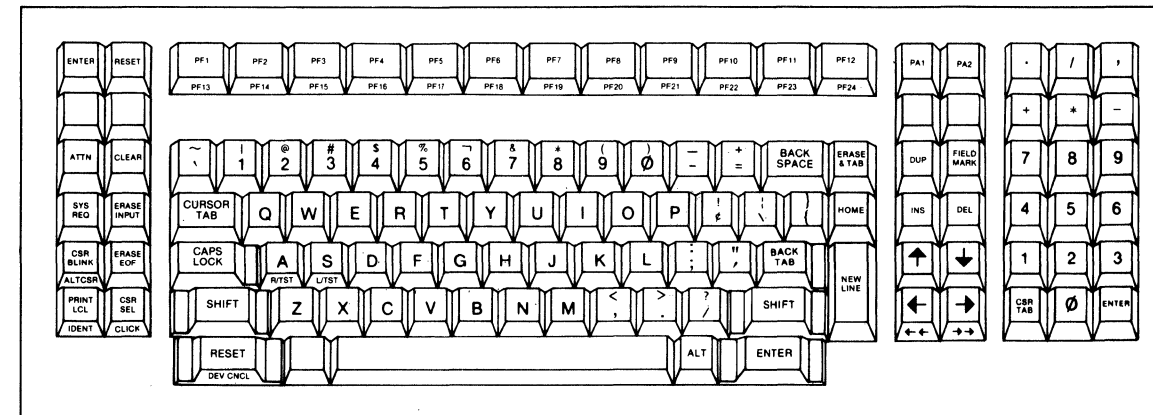
ENC5, low-profile



T5 Keyboards



INC5 Keyboard

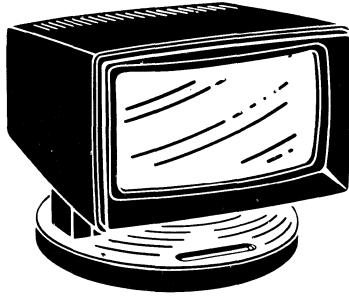


ENC5 Keyboard

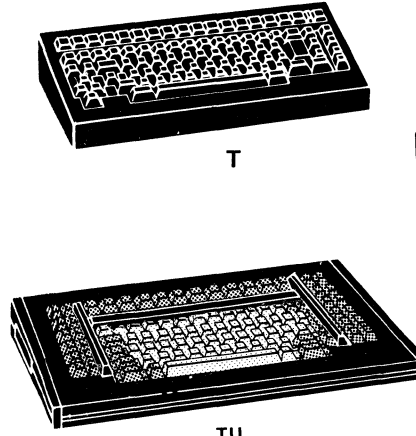
4503 Single-Color Displays

Display		Keyboard								Magnetic Stripe Badge Reader	Keylock	Catalog Number
Screen Size	24 x 80 Row x Col	Typewriter			External Num. Cluster							
		T, BSC	T, SNA	TU	BSC		SNA					
					ENC, narrow	ENC, wide	ENC, narrow	ENC, wide	MSBR			
7" x 13"		•								*	4503-2TOB	
		•	•							*	4503-2TOS	
		•		•						*	4503-2TUS	
		•				•				*	4503-2ENB	
		•					•			*	4503-2EWB	
		•						•		*	4503-2EMB	
	•							•	*	4503-2ENS		
	•								•	*	4503-2EWS	

*See Accessories

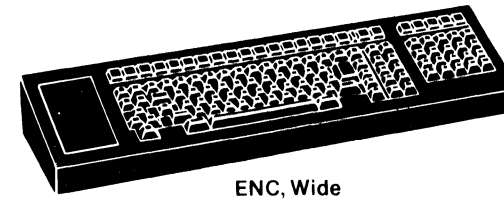


4503

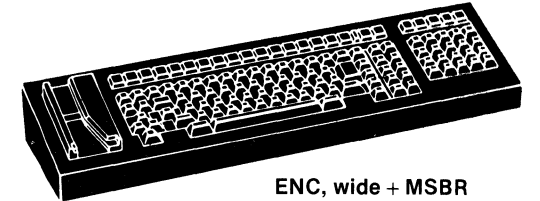


T

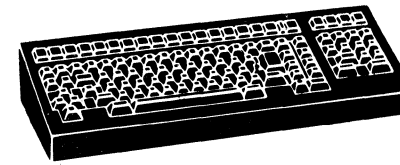
TU



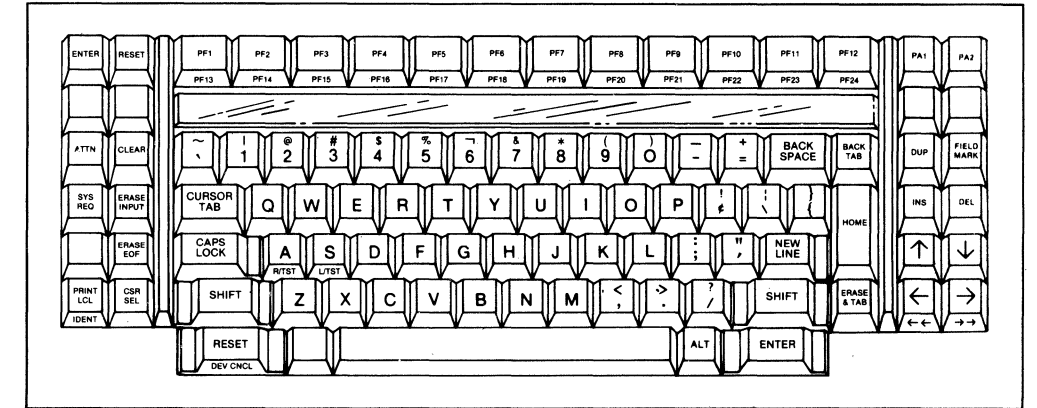
ENC, Wide



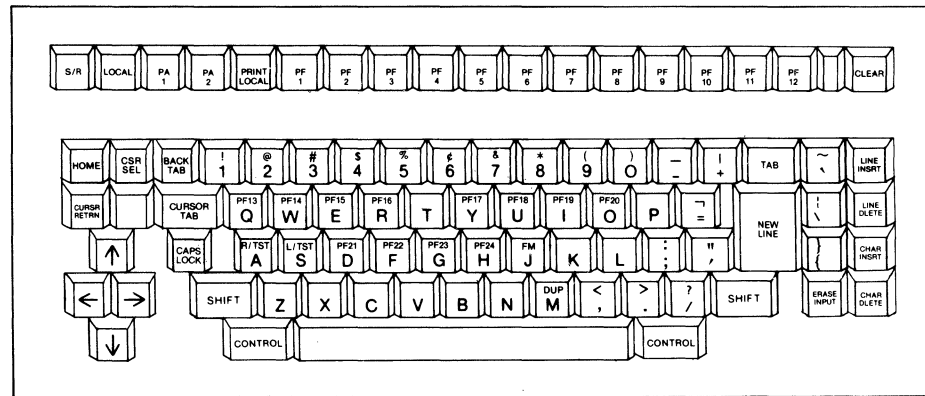
ENC, wide + MSBR



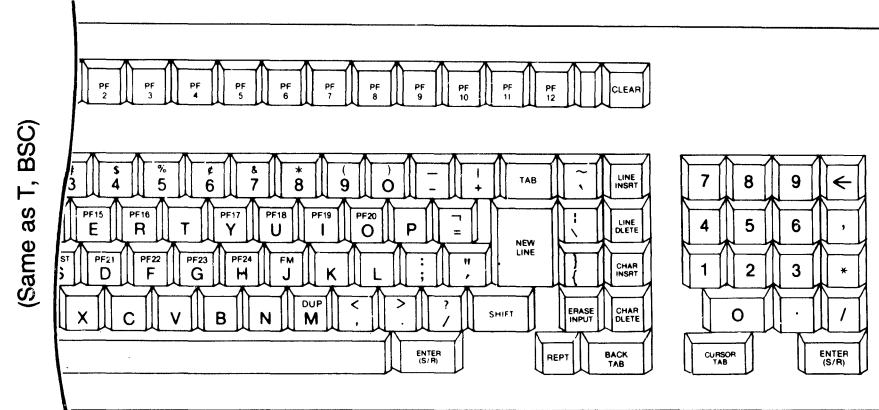
ENC, Narrow



TU Keyboard

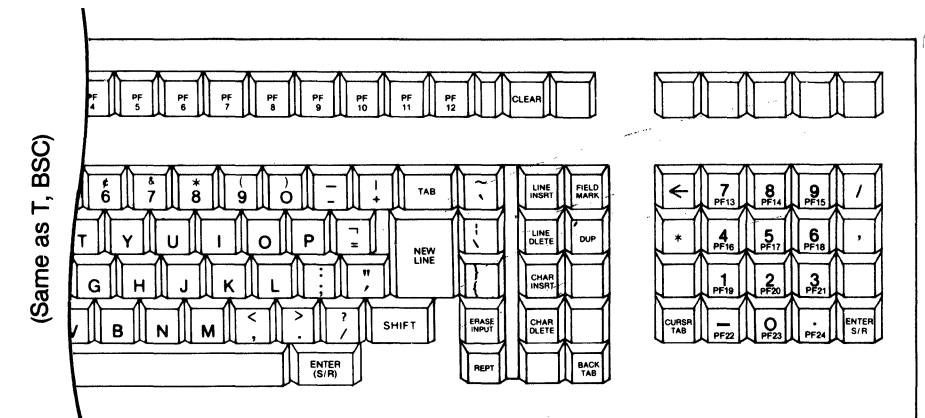


T, BSC Keyboard



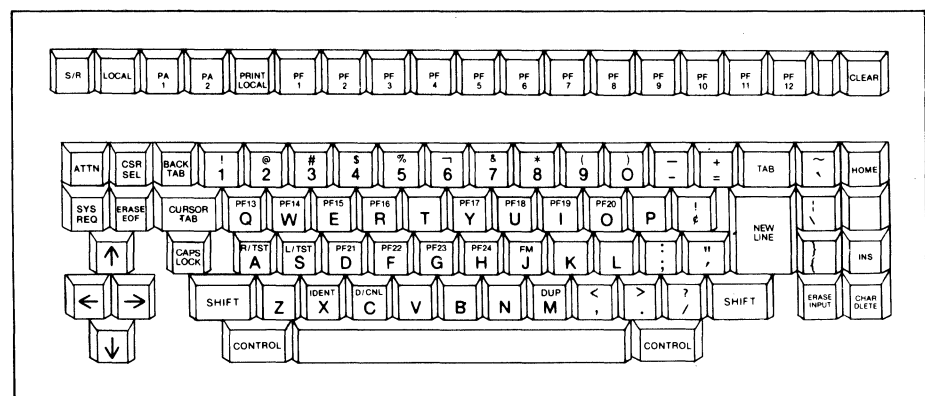
(Same as T, BSC)

ENC, Narrow, BSC Keyboard

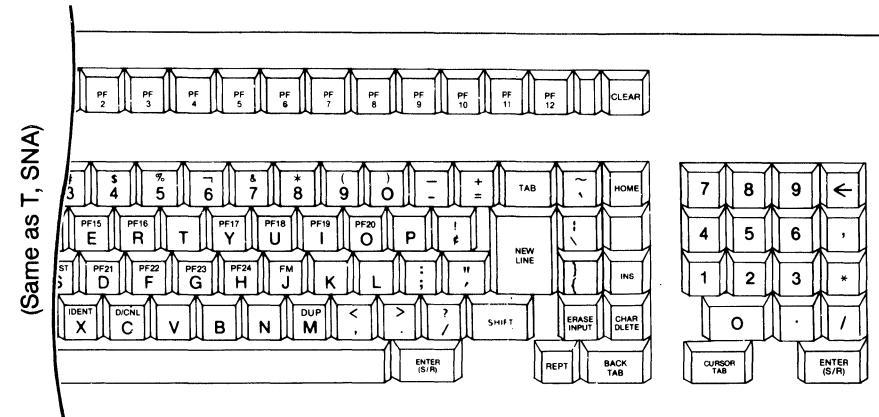


(Same as T, BSC)

(PF 13 to 24 may optionally appear as shown on T, BSC)
ENC, wide, BSC Keyboards

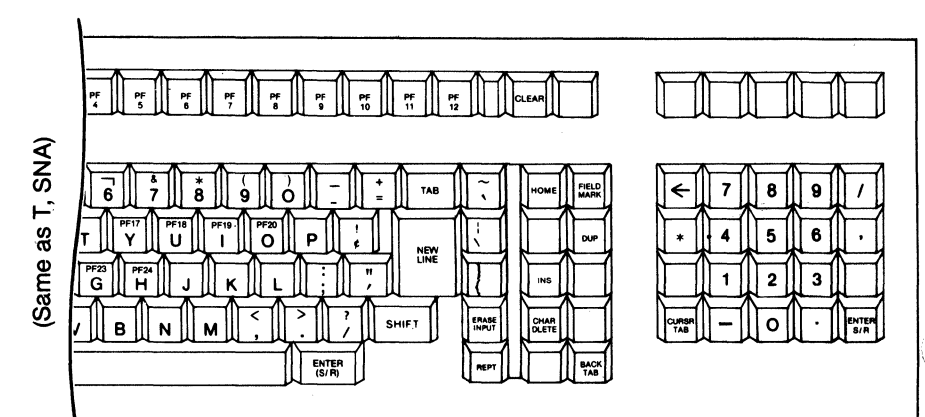


T, SNA Keyboard



(Same as T, SNA)

ENC, Narrow, SNA Keyboard



(Same as T, SNA)

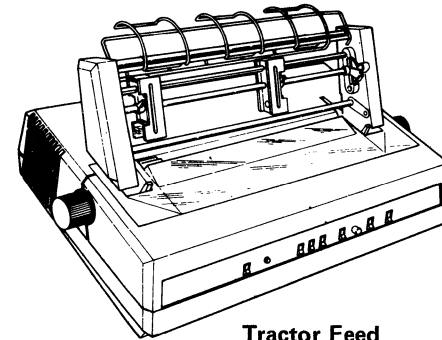
ENC, wide, SNA Keyboard

Printers

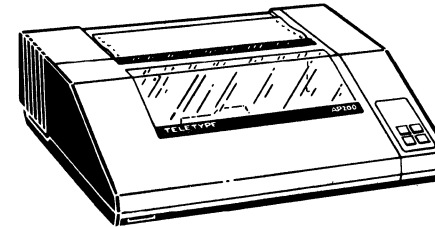
Type & Speed†				Character Set			Friction Feed	Tractor Feed				Cabinet		Catalog Number	
Full-Character		Dot-Matrix		Monospace EBCDIC	Up-Low EBCDIC	Up-Low ASCII	80-Column	80-Column	Forms Access	132-Column	Ribbon Re-Inker	Paper Jam Indicator	Table		Floor
Belt	Daisy Wheel	Up to 340 cps† bi-directional	30 cps (47.5 max) uni-directional												
Up to 300 or 220 lpm	Up to 55 cps bi-directional														
•				•		*	•						•		4011-3BXO
•				•		*		•					•		4011-4GXO
•				•		*		•	•				•	•	4011-4AXN
•				•		*				•			•		4011-4LXO
•				•		*				•	•	•	•		4504-1CEF
•					•	*	•						•		4011-3EXO
•					•	*		•					•		4011-4JXO
•					•	*		•	•				•		4011-4DXN
•					•	*				•			•		4011-4MXO
•					•	*				•	•		•		4504-1CFF
	•				•	•				•			•		4504-4CBO
		•			•	•				•			•	•	45AP201AAA
		•			•	•				•			•		45AP202AAA
			•		•	•				•	•		•		45AP104AAA
			•		•	•				•	•		•		45AP102AAA

†Actual printer throughput may be limited by operational and system characteristics

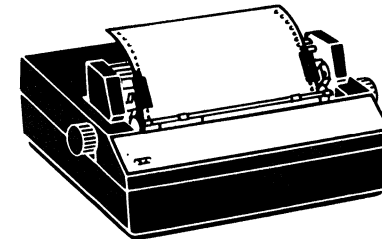
†125, 200 & 300 lpm @ 132, 72 & 40 char/line
* See Accessories



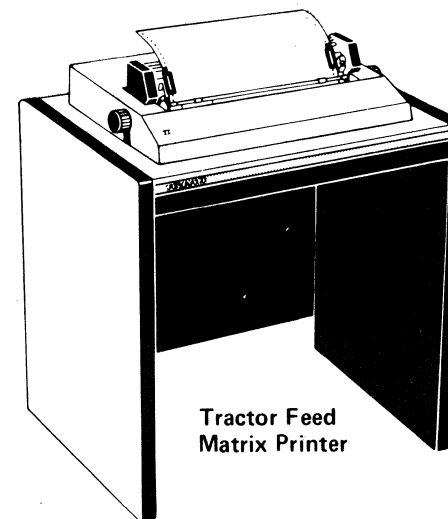
Tractor Feed Daisy-Wheel Printer



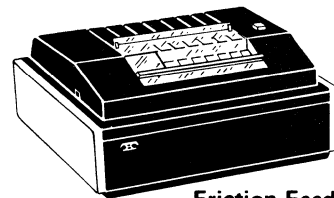
High-Speed Tractor Feed Matrix Printer



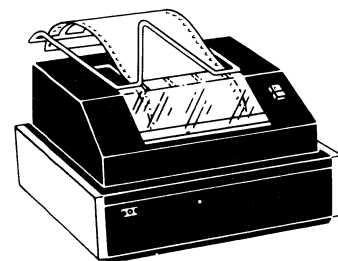
Tractor Feed Matrix Printer



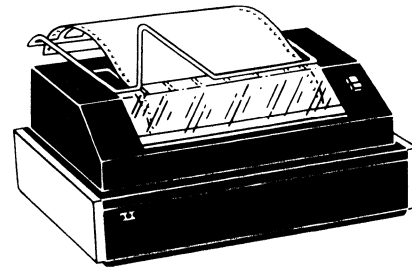
Tractor Feed Matrix Printer



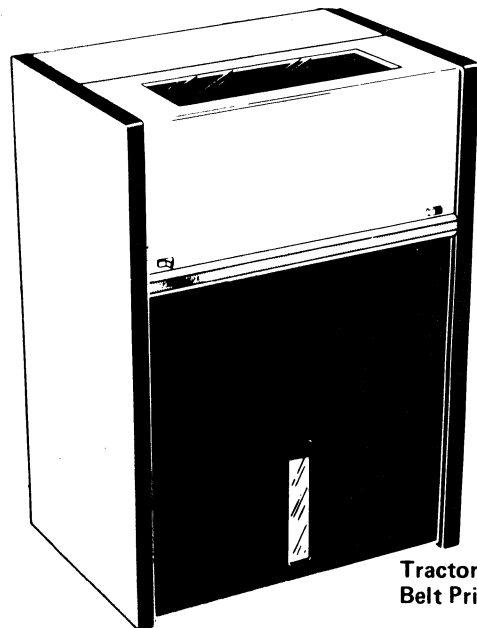
Friction Feed Belt Printer



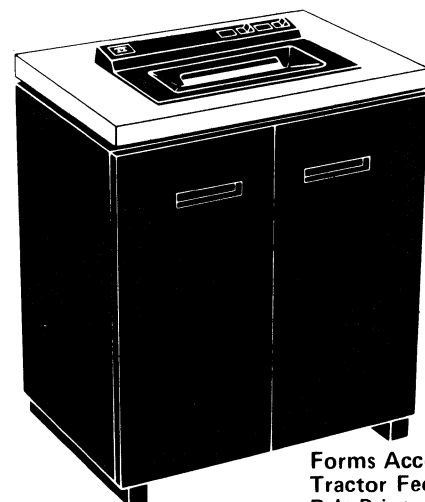
80-column Tractor Feed Belt Printer



132-column Tractor Feed Belt Printer



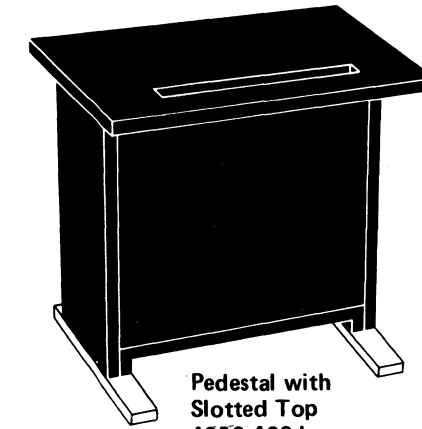
Tractor Feed Belt Printer



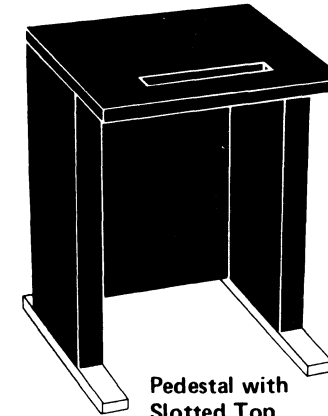
Forms Access Tractor Feed Belt Printer

Printer Pedestals

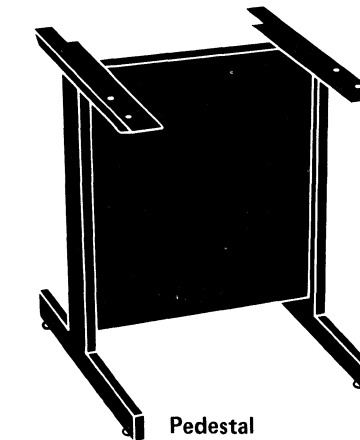
Accommodates				Catalog Number
Table Model Printer				
Belt			High-Speed Matrix	
Friction Feed	Tractor Feed 80-Column	Tractor Feed 132-Column		
●				4000-400F
	●			4000-400F
		●		4000-400J
			●	45CAB403AAA



**Pedestal with Slotted Top
4000-400J**



**Pedestal with Slotted Top & No Door
4000-400F**

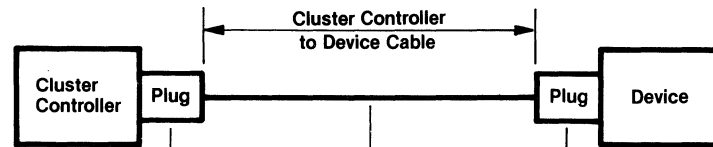


**Pedestal
45CAB403AAA**

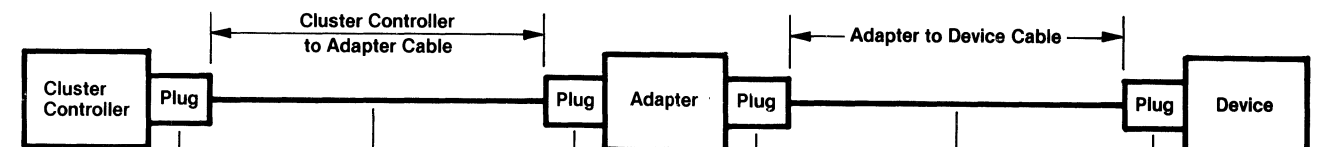
Cabling

The following 4 tables offer many choices for connecting a cluster-controller to a display or printer device. In general, each table is organized according to whether the cluster-controller is a 5544 or a 5546; according to whether the device is a 5548 or 4503 display or a printer; and according to whether standard, under-carpet or coaxial cable is used. The different tables reflect the fact that some cable connections require 1 or 2 adapters (e.g. use of coaxial cable requires 2 adapters).

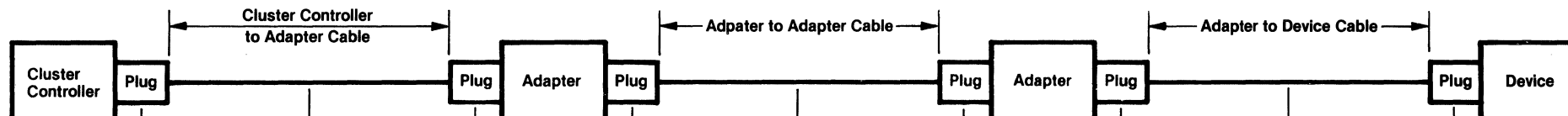
As can be seen, cables less than 100 ft in length are available with attached plugs, but longer lengths require field wiring of bulk cable to plugs and adapters, as indicated in the tables. Also as shown, longer lengths can sometimes be achieved by wiring bulk cable between adapters for the major part of the length and by cutting a cable with attached plugs into 2 pieces; one of which is plugged into the cluster-controller at one end and is wired to one of the adapters on the other end, and the other of which is wired to the other adapter on one end and plugged into the device on the other end.



Cluster Controller	Part of Cable	Cluster Controller to	Cable		Part of Cable	Device
			Length	Part Number		
5544	Part of Cable	Cluster Controller to	Display Cable	12'	416695	Display 5548
				25'	416696	
				50'	416697	
	Part of Cable	Cluster Controller to	Printer Cable	12'	452226	Printer
				25'	452227	
				50'	452228	
5546	Part of Cable	Cluster Controller to	Display Cable	6'	416713	Display 5548
				12'	416714	
				25'	416715	
	Part of Cable	Cluster Controller to	Printer Cable	12'	416685	Printer
				25'	416686	
				50'	416687	



Cluster Controller	Part of Cable	Cluster Controller to	Cable		Part of Cable	Adapter	Part of Cable	Adapter to	Cable		Part of Cable	Device
			Length	Part Number					Length	Part Number		
5544	Part of Cable	Cluster Controller to	Display Cable	500'	416717	413631	Part of Cable	Adapter to	Display Cable	6'	416713	Display 5548
				2000'	416718					12'	416714	
				5000'	416719					25'	416715	
	Part of Cable	Cluster Controller to	Printer Cable	5'	416600	416665 + 413632†	Part of Cable	Adapter to	Display Cable	12'	416714	Display 4503
				10'	416601					25'	416715	
				15'	416602					50'	416716	
5546	Part of Cable	Cluster Controller to	Display Cable	500'	416717	416669 + 413632 for up to 6 devices	Part of Cable	Adapter to	Printer Cable	12'	416685	Printer
				2000'	416718					25'	416686	
				5000'	416719					50'	416687	
	Part of Cable	Cluster Controller to	Printer Cable	500'	416717	416669 + 413632 for up to 6 devices	Part of Cable	Adapter to	Display Cable	6'	416713	Display 5548
				2000'	416718					12'	416714	
				5000'	416719					25'	416715	
Part of Cable	Cluster Controller to	Printer Cable	500'	416717	416669 + 413632 for up to 6 devices	Part of Cable	Adapter to	Printer Cable	12'	416685	Printer	
			2000'	416718					25'	416686		
			5000'	416719					50'	416687		



Cluster Controller	Part of Cable	Cluster Controller to	Cable		Part of Cable	Adapter	Part of Cable	Adapter to	Cable		Part of Cable	Device
			Length	Part Number					Length	Part Number		
5546	Part of Cable	Cluster Controller to	Display Cable	6'	416707	413632	Part of Cable	Adapter to	Display Cable	12'	416713	Display 5548
				12'	416708					25'	416715	
				25'	416709					50'	416716	
				50'	416710					100'	416712	
										200'	416711	
	Part of Cable	Cluster Controller to	Printer Cable	12'	416685	413632	Part of Cable	Adapter to	Printer Cable	12'	416685	Printer
				25'	416686					25'	416686	
				50'	416687					50'	416687	

*Cut cable to desired length & strip wires on cut end to make connection.
**Cut off plug & strip wires to make connection.

†416672 provides 8 cluster-controller plugs
452220 provides 2 cluster-controller & 2 printer plugs
452205 provides standard-duty crimp tool
452242 provides heavy-duty crimp tool
Cut cable to desired length, strip wires on cut end & connect to plug

‡Accommodates up to 4 416665s

Accessories & Options

AC Distribution Strip 408045 (4000 Pedestal)

Mounts any 24" or wider pedestal. Provides convenience power outlets, some live, some switch controlled, for associated equipment (e.g., modem) and for diagnostic and repair tools.

4503 for 48-62 Hz Power

Order 58-62 Hz equivalent & specify 48-62 Hz required.

Light Pen 414180 (5548 Display)

Requires Teletype Product Service Organization installation. Operates same as CSR SEL key except moves cursor to wherever light-pen pressed on display screen; switches cursor to underline type and causes a horizontal line to be displayed through all characters in the selected field on the same line as the pen, until selection recognized by display.

BSC Diskette 58S401RLB or 58S401RSB

Converts 5544 (large) or 5546 (small) cluster-controller from SNA to BSC protocol. 58S401RLB converts 5544-31S to 31B. 58S401RSB converts 5546-31S to 31B. Order 2 to provide a spare.

SNA Diskette 58S401RLS or 58S401RSS

Converts 5544 (large) or 5546 (small) cluster-controller from BSC to SNA protocol. 58S401RLS converts 5544-31B to 31S. 58S401RSS converts 5546-31B to 31S. Order 2 to provide a spare.

ASCII Keytops for BSC

ASCII Keytops						
T, BSC	ENC, nrw, BSC	ENC, wide, BSC	TU	T5	T5, lw prfle	ENC5, lw prfle
340826			413711			420351
340889			413716			420356
340890			413916			420619

For ASCII BSC applications.

Order the 3 keytops listed beneath the type of keyboard to be provided with ASCII keytops.

MSBR Test Card 406303 (4503 Displays with MSBR)

Permits magnetic stripe badge reader to be tested as part of the keyboard diagnostics.

Keyboard Key Lock (4503 Displays)

Detached Keyboard		Catalog Number
T		453970
ENC	Narrow	453970
	Wide	347300

Causes device not available status when locked.

Prevents keyboard operation when locked.

Includes 2 keys.

Add PF13 to 24 (BSC 4503 Displays)

Add PF13 to 24	Catalog Number
to numeric cluster keys instead of internal keys on wide ENC keyboard	403141 instead of 403158

403141 provides keys marked on their top half with 7, 8, 9, 4, 5, 6, 1, 2, 3, —, 0, and . ; and on their bottom half with PF13 to 24, respectively.

403158 provides keys marked on their bottom half with Q, W, E, R, Y, U, I, O, D, F, G and H; and on their top half with PF13 to 24, respectively. Standard BSC 4503 displays (4503-2EMB,ENB,EWB and TOB) include 403158.

TU keyboards already have PF13 to 24.

PRINTER ACCESSORIES & OPTIONS

Tractor Feed Optional Form Length

Belts for Belt Printers	Catalog Number	Tapes for AP100	Catalog Number
2-1/2, 3-1/3, 5 & 10"	402571*	2-1/3"	453049
2-3/4, 3-2/3, 5-1/2 & 11"	402572*†	3"	453050
3, 4, 6 & 12"	402573*	3-1/3"	453051
3-1/4, 4-1/3, 6-1/2 & 13"	402574	3-1/2"	453052
3-1/2, 4-2/3, 7 & 14"	402575*	3-2/3"	453053
3-3/4, 5, 7-1/2 & 15"	402576	4"	453054
4, 5-1/3, 8 & 16"	402577	4-1/3"	453055
4-1/4, 5-2/3, 8-1/2 & 17"	402578*	4-2/3"	453056
4-1/2, 6, 9 & 18"	402579	5"	453057
5-1/2, 7-1/3, 11 & 22"	402580	5-1/2"	453058
all of the above belts	402586	6"	453059
		6-1/2"	453060
		7"	453061
		7-1/2"	453062
		8"	453063
		8-1/2"	453064
		9"	453065
		10"	453066
		11"	453067†
		12"	453068
		13"	453069
		14"	453070

* included with belt set 402587

† included with printer

Note: Form lengths in the fractions 1/4 or 3/4 inch are not compatible with line spacing of 3 to 6 lines/inch; those ending in the 1/2 inch are not compatible with 3 lines/inch; and those ending in 1/3 or 2/3 inch are not compatible with 4 or 8 lines inch.

Also: Printer cabinet cannot accommodate forms longer than 11-inches.

Static Neutralizer 452730 (4504-1 Printer)

Provides a high voltage static neutralizer bar to facilitate the proper refold and stacking of paper during low relative humidity conditions.

Ribbon Re-inker 80-Column 408990, 132-Column 407790 (Tractor Feed Belt Printers)

Extends life of print ribbon from 8.5 to at least 20 million characters. Part of 4504 printers.

Ribbonless Printing Adapter 402850 (80-Column Tractor Feed Belt Printers)

For applications where printing on top copy is not desired or where carbonless paper is used. Must be used when ribbon is not used to prevent paper jams.

Form Accumulator Rack 405544 (Pedestal-Mounted Belt Printer)

Accumulates multi-copy fan-folded forms as they come from the printer. Handles forms up to 13" long, 15" wide. Required upper guide comes with all tractor feed printers. Rack plus guide adds 13" to depth and 2" to height of printer.

Paper Winder 40PWU102 (Pedestal-Mounted Belt Printer)

Winds up print-out as it comes from the printer. Handles 490 feet of up to 8 1/2" wide single-ply paper. Mounts via rails which slide under printer cabinet. Adds approximately 9 1/2" to depth of terminal.

Paper Jam Indicator 402920 (Tractor Feed Belt Printers)

Lights PAPER indicator on tractor feed printer if tractor feed pins move to feed paper but paper does not move. Part of 4504 printers.

Paper Guard 403011 (Tractor Feed Pedestal-Mounted Belt Printers)

Prevents paper jams on tractor feed printers caused by movement of paper supply box. Not needed if printer on recessed pedestal.

Typecarriers (Belt Printers)

Typecarriers (Belt Printers)			Catalog Number
EBCDIC	95-char up-low	80-col	408525
		132-col	408523
	64-char monocase	80-col	408524
		132-col	408522
ASCII	95-char up-low	80-col	408390
		132-col	408391
	64-char monocase	80-col	408392
		132-col	408393

† Appropriate EBCDIC typecarrier included with printer

Specify whether typecarrier being ordered instead of or in addition to the typecarrier included with the printer.

Print Ribbons

Provides 6 ribbons except for 402444 which provides 1 ribbon.

Printer		Catalog Number
Belt		402444
Dot-Matrix		430488
High-Speed Dot-Matrix		454699
Daisy Wheel	Fabric	411484
	Mylar	411485

**Tractor Feed Mechanism 411483
(Daisy-Wheel Printer)**

Provides user-mountable tractor-feed mechanism. Part of 4504-4CBO daisy-wheel printer.

**EBCDIC/ASCII Print Wheels
(Daisy-Wheel Printers)**

Character Spacing	Catalog Number
12 char/in	411478†
10 char/in	411477
Proportional	411476

† Included with printer

**Form Guide & Accumulator 411482
(Daisy-Wheel Printer)**

Guides fan-folded forms to printer and accumulates them as they come from the printer. Handles forms up to 12¼" long, 15" wide. Adds 13" to depth and 2" to height of printer.



AT&T

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