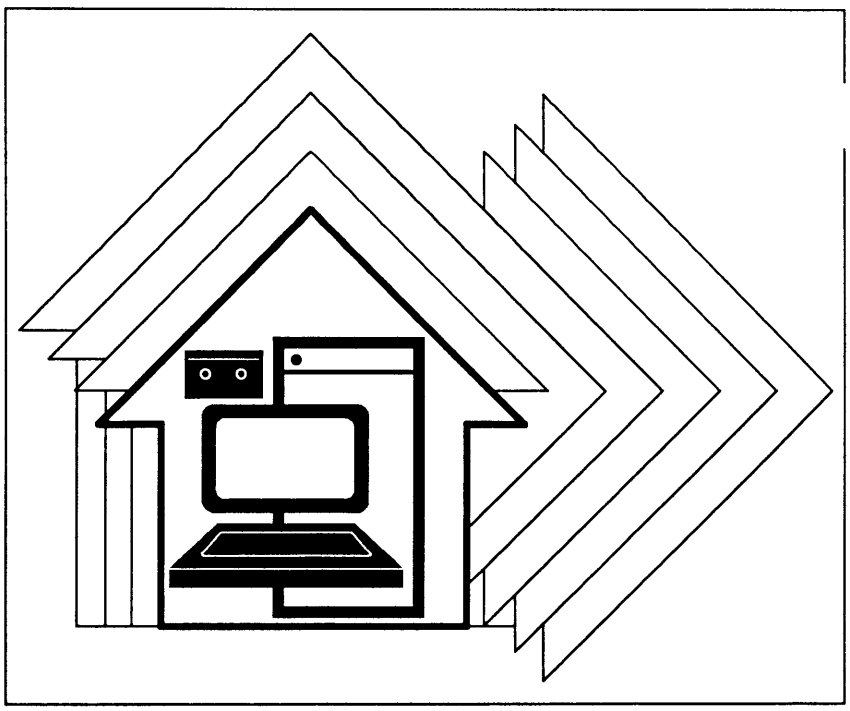
TERMINAL/PRINTER

INFORMATION



TEXAS INSTRUMENTS

TERMINAL/PRINTER INFORMATION

NOTICE TO U.S.A. USERS: 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. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. 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.

NOTICE TO CANADIAN USERS: This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Réglement sur le brouillage radioélectrique édicté par le ministere des Communications du Canada.

MANUAL REVISION HISTORY

Terminal/Printer Information (2557939-0001)

Original Issue ..... December 1988
Revision A ..... February 1990
Revision B ..... August 1990

Texas Instruments Incorporated
ATTN: Information Technology, M/S 2151
P.O. Box 149149
Austin, Texas 78714-9149

Produced by the Publishing Center
Texas Instruments Incorporated
Information Technology Group
Austin, Texas

ABOUT THIS MANUAL

Purpose

This manual provides setup data for Texas Instruments terminals and printers when used with Texas Instruments System 1000 Series, System 1500 computer systems. This manual supplements the installation and operation manuals provided with the individual terminals and printers.

Contents of This Manual

This manual contains information organized as follows:

Title	Contents
Video Display Terminals	Section 1, VDT Information
Printers	Section 1, Dot Matrix Printers Section 2, Laser Printers

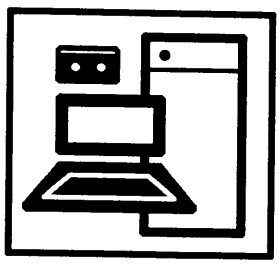
References

The following documents are listed for reference information:

Title	TI Part Number
Introduction	2555463-0001
System Operation	2557949-0001
Computer System Site Preparation	2558023-0001
System Maintenance Terminal Operating Parameters	2558022-0001
Computer Enclosure Installation and Operation	2557942-0001
Peripheral Enclosure Installation and Operation	2557943-0001
System Board Installation and Operation	2557941-0001
Mass Storage Unit (MSU IIA) Installation and Operation	2557935-0001
WD1200 Disk Drive Installation and Operation	2557944-0001
Terminal Concentrator Installation and Operation	2557938-0001
Terminal/Printer Information	2557939-0001
Installation and Operation Appendixes	2557946-0001
DB380 Disk Drive Field Maintenance Supplement	2557953-0001
DB760 Disk Drive Field Maintenance Supplement	2555402-0001
CT150 Tape Drive Field Maintenance Supplement	2558007-0001
CT2000 Tape Drive Field Maintenance Supplement	2557951-0001
WD1200 Disk Drive Field Maintenance Supplement	2557952-0001

Title	TI Part Number
Computer Enclosure/Peripheral Enclosure Field Maintenance Supplement	2557961-0001
68030 Symmetric Processor Field Maintenance Supplement	2558002-0001
16/32-Megabyte Data Buffer Board Field Maintenance Supplement	2558003-0001
NUPI-2 Board Field Maintenance Supplement	2564103-0001
NuBus Systems System 1500 Field Maintenance Handbook	2549258-0001

VIDEO DISPLAY TERMINALS



CONTENTS

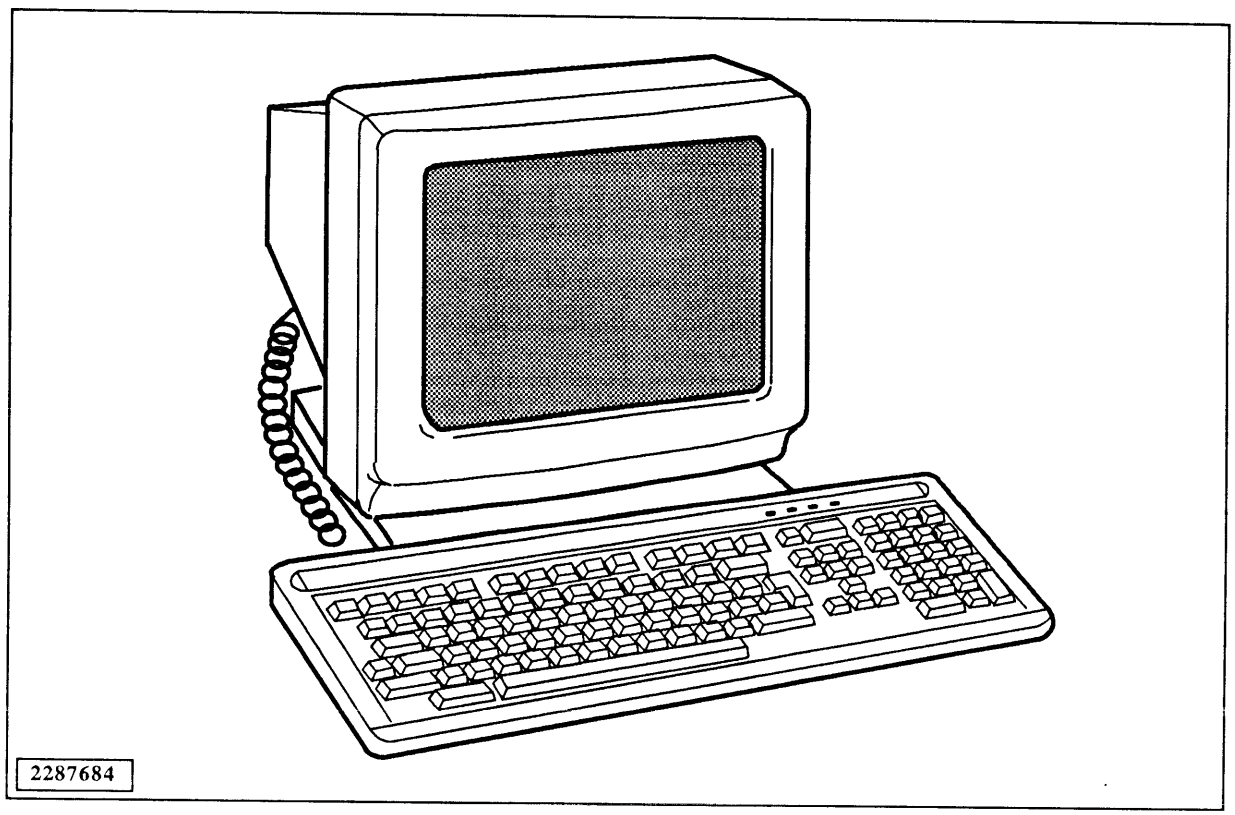
1 VDT INFORMATION

Introduction

1.1 This section provides installation and operation information for the video display terminals (VDTs) and modems used in the System 1500 and System 1505 type computer systems. These computers are members of the System 1000 Series of multiuser computer systems. A typical VDT is shown in Figure 1-1. This section is arranged under the following topics:

- Receiving your equipment
- Unpacking and inventory
- Communications interfaces
- Cabling the VDTs and modems
- VDT setup as a data I/O terminal
- VDT setup as the system maintenance terminal (SMT)

Figure 1-1 Typical Video Display Terminal



The VDT (used as a data I/O terminal) accepts and displays commands and data. The VDT (used as the SMT) monitors system self-tests, controls and monitors extended self-tests and diagnostics, and is the system boot terminal. This section provides cabling information for modems, the Models 924, 928, 931 VDTs, and the 955 workstation. Brief setup instructions are also provided for the VDTs.

Receiving Your Equipment

1.2 Before unpacking your VDT, perform the following steps:

1. Make sure that the driver has signed the delivery receipt before leaving your site. You need to retain the container, packing materials, and delivery receipt in the event of concealed damage or shortage.
2. Visually inspect the shipping container for damage. If the shipping container is damaged, contact the carrier agent for instructions on filing a claim. The carrier, not Texas Instruments, is responsible for damage during shipment.
3. If the shipping container has significant damage, stop unpacking the system and contact the carrier agent. After the carrier agent inspects the damage, contact the Texas Instruments Field Service office to resolve all problems relating to damage before proceeding with the installation.
4. Note any problems, damage, or shortages that you discover on the delivery receipt or bill of lading.

Unpacking and Inventory

1.3 Texas Instruments VDTs are shipped in cardboard cartons with internal cushions to protect against mechanical shock. You will need a knife to cut the sealing tape on the carton. Open the top of the carton and remove the VDT instruction manual. Follow the unpacking instructions in the manual to finish unpacking the VDT.

Once you have unpacked the VDT and verified that there are no concealed damages, add the terminal description and part number to the system inventory sheets.

Communications Interfaces

1.4 The VDTs and modems can be connected to the system computers through any of the following input/output devices:

- Network terminal concentrators (NTC)
- Multidrop terminal concentrators (MTC)
- Eight-channel asynchronous option, adapter, and connector strip
- Eight-channel asynchronous option with modified modular jack (MMJ) connectors
- Four-channel asynchronous option and adapter
- Software protect adapter (SPA) when the VDT serves as the SMT
  - Local SMT (directly-connected) at 9600 bps
  - Remote SMT (via modems and telephone link) at 1200 bps

The system computer host communication ports support full-duplex, asynchronous serial transmission of ASCII data. The host communication ports conform to the EIA RS-232 and/or RS-423 standards. Data transmission rates can be set over a wide range, with 19,200 bps as the standard rate for use as a data I/O terminal. Hardware connections from the host to VDT use either RS-232 25-pin D connectors or 6-pin MMJ connectors.

VDT devices provided by Texas Instruments conform to ANSI X3.64-1979, *American National Standard Additional Controls for Use with American National Standard Code for Information Interchange.*

An auxiliary printer port on the VDTs uses an interface that is specific to the VDT. Refer to the VDT instruction manuals and to the printer information to determine how to set up the auxiliary port.

Reference Information

1.5 Refer to the documents listed below for more information on the installation and operation of the VDTs covered in this section. The rear view of each VDT is shown for reference in the associated illustrations.

- *Model 924 Video Display Terminal User's Guide*, TI part number 2544365-0001, (rear view shown in Figure 1-2)
- *Model 928 Video Display Terminal User's Guide*, TI part number 2561031-0001, (rear view shown in Figure 1-3)
- *Model 931 Video Display Terminal General Description*, TI part number 2229228-0001, (rear view shown in Figure 1-4)
- *Model 955 Workstation User's Guide*, TI part number 2552476-0001, (rear view shown in Figure 1-5)
- *Terminal Concentrator Installation and Operation*, TI part number 2557938-0001
- *System Board Installation and Operation*, TI part number 2557941-0001
- *System 1505 Computer Installation and Operation*, TI part number 2564903-0001

NOTE: The 928 VDT has two MMJ connector ports. The port selected for connection to the host computer is determined by the Host Port selection made during the Global Setup Menu of the 928 VDT. Port 1 is normally selected as the host computer port.

Figure 1-2 Rear View of the 924 VDT

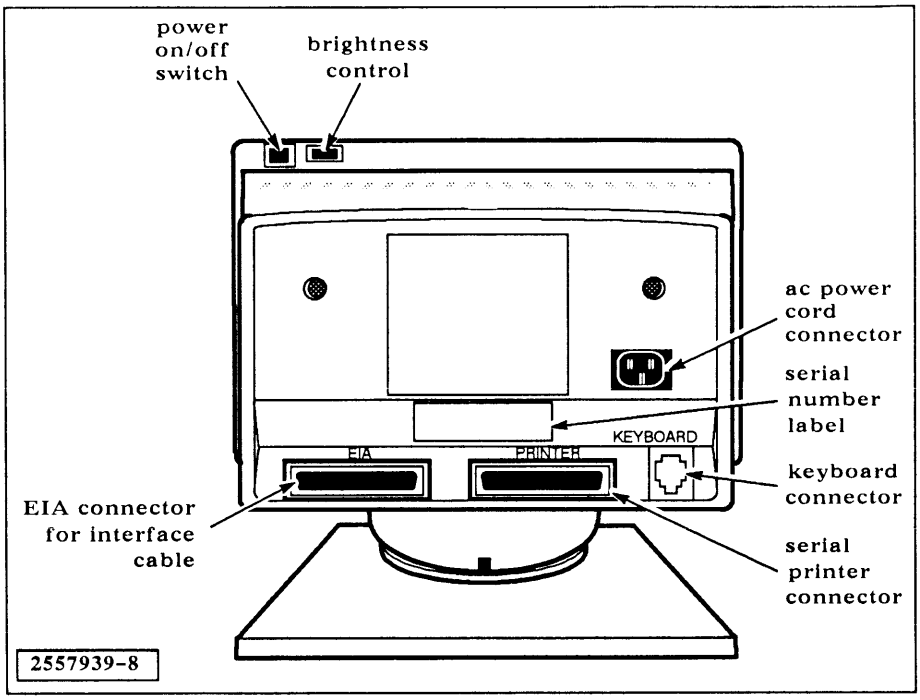


Figure 1-3 Rear View of the 928 VDT

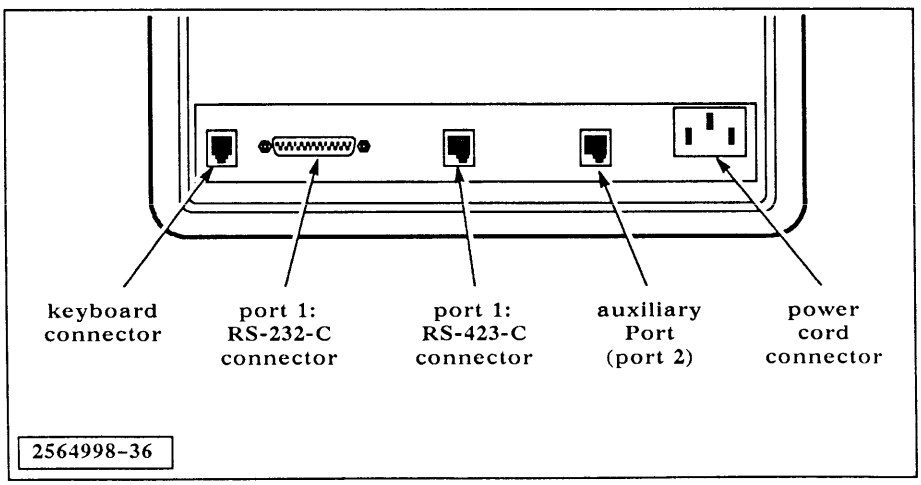


Figure 1-4 **Rear View of the 931 VDT**

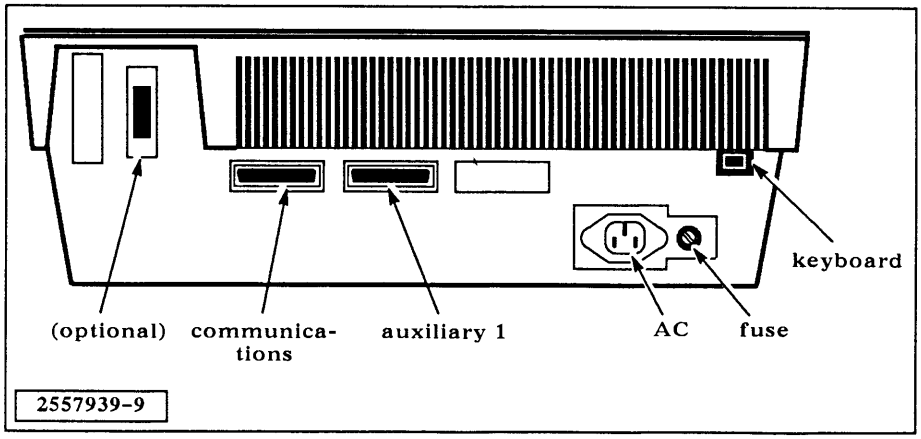
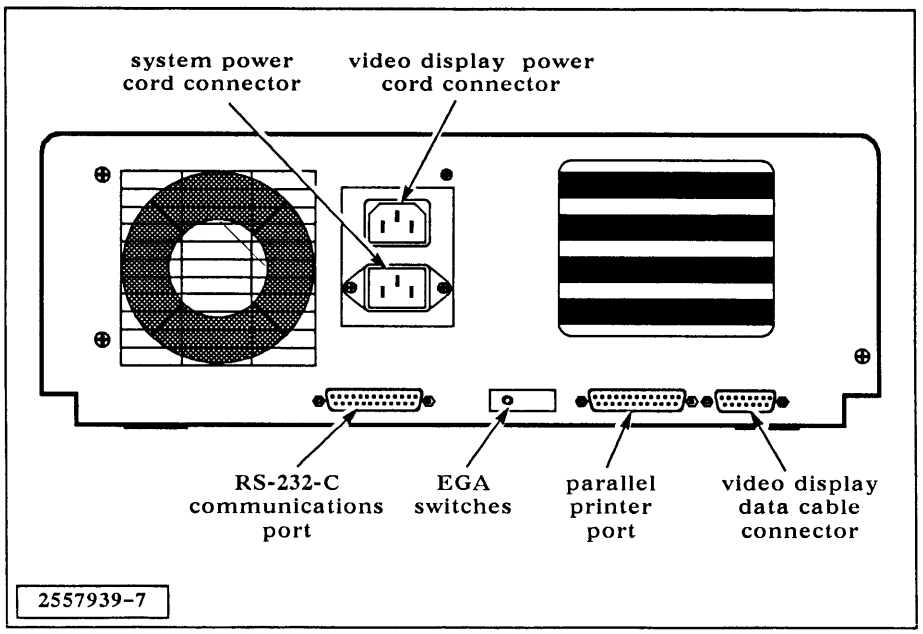


Figure 1-5 **Rear View of the 955 Workstation**



Cabling Information

1.6 Figure 1-6 shows a typical VDT cabling example. Detailed cable configurations are shown in the following illustrations:

- Figure 1-7, Model 924 VDT cable configurations (25-pin female EIA connector)
- Figure 1-8 Model 931 VDT cable configurations (25-pin female EIA connector)
- Figure 1-9, Models 928 VDT and 955 workstation cable configurations (25-pin male EIA connector)
- Figure 1-10, Model 928 VDT cable configurations (6-pin MMJ connector)
- Figure 1-11, Modem cable configurations (25-pin female EIA connector)

Table 1-1 provides configuration descriptions that are keyed to the individual cable configurations in the above illustrations.

NOTE: In this manual, the terms single-board computers (SBC) and multiboard computers (MBC) are used. SBC refers to System 1505 type computer chassis that do not have a backplane. MBC refers to computer chassis, such as the 7-slot and 16-slot type computer chassis, that have a backplane.

Figure 1-6 Typical VDT Cabling

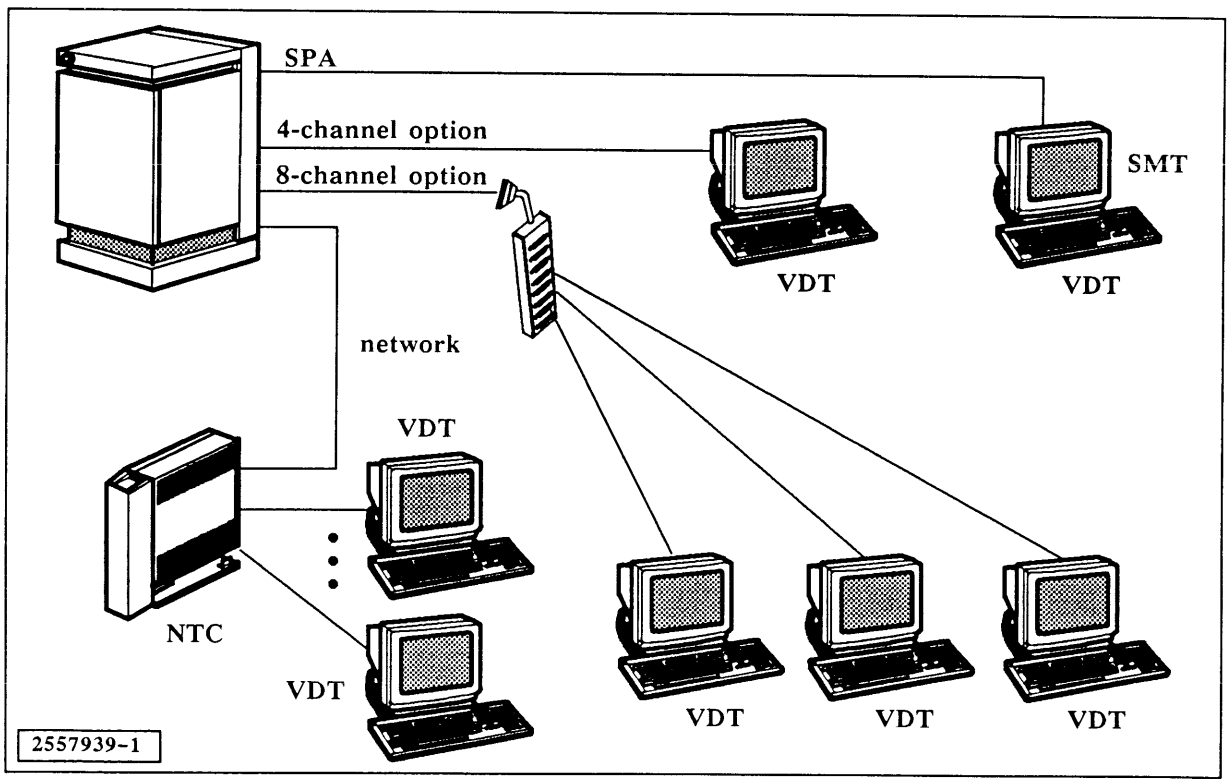


Figure 1-7 Model 924 VDT Cable Configurations (25-Pin Female EIA Connector)

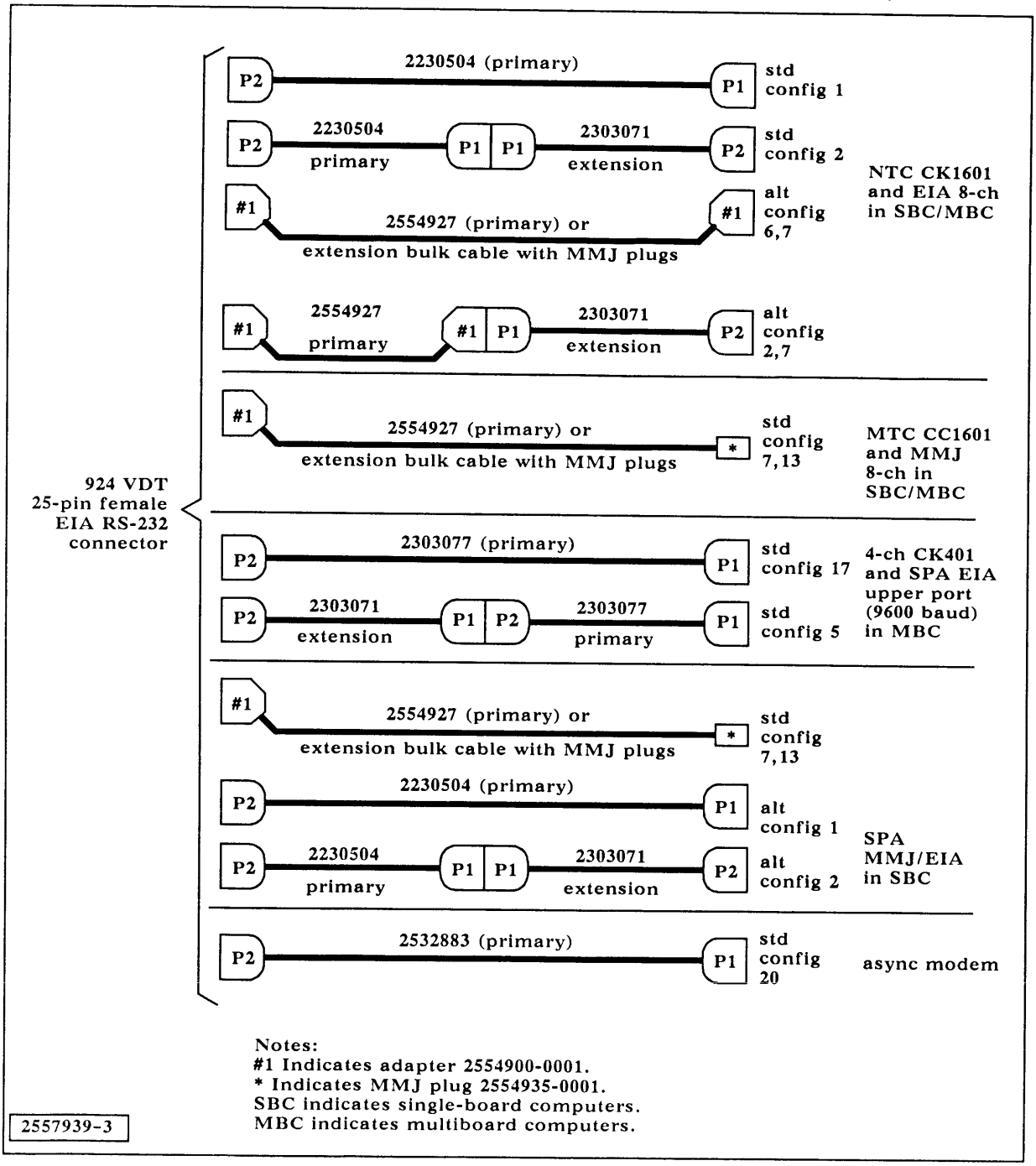


Figure 1-8 Model 931 VDT Cable Configurations (25-Pin Female EIA Connector)

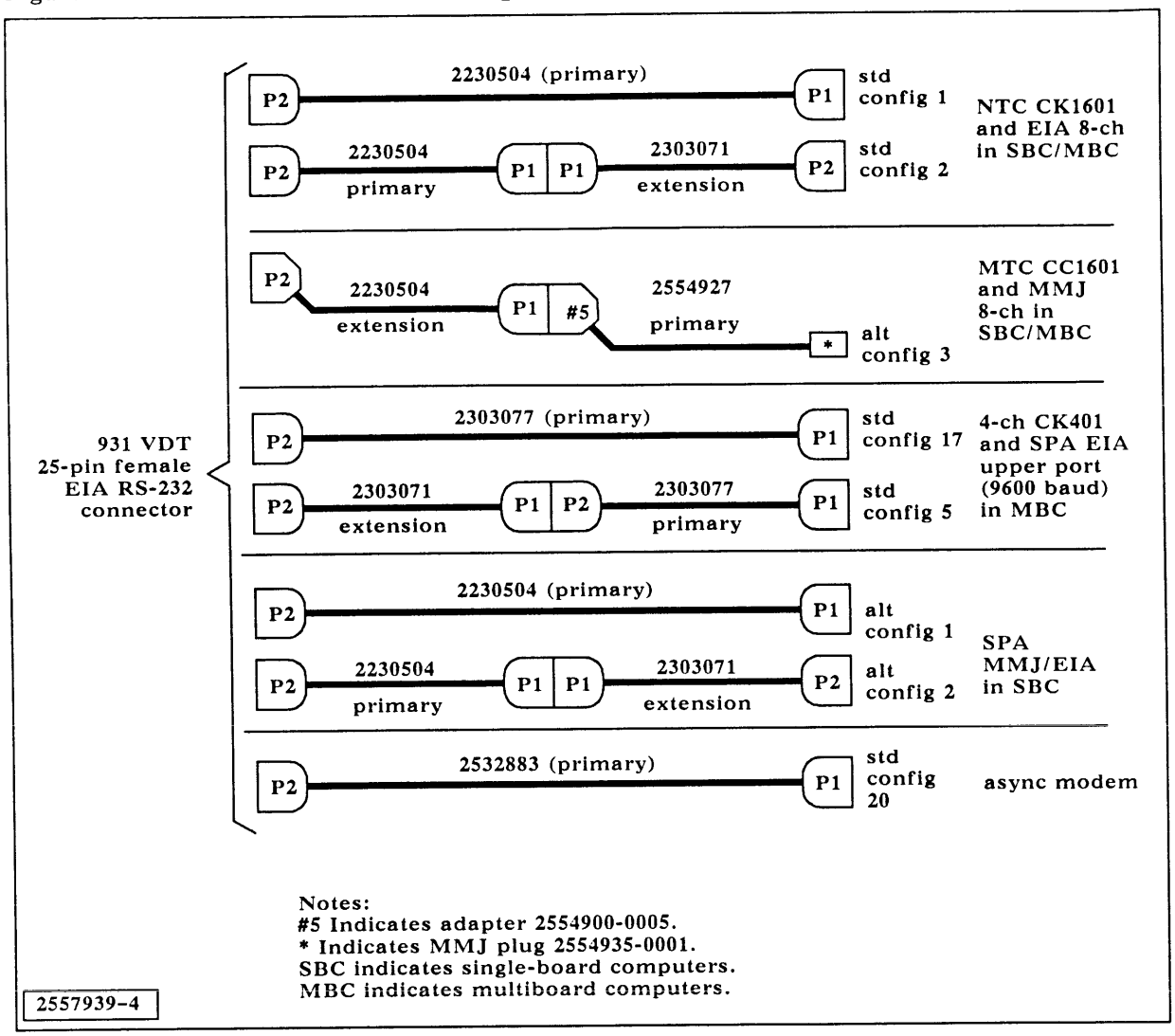


Figure 1-9 Model 928 VDT and 955 Workstation Cable Configurations (25-Pin Male EIA Connector)

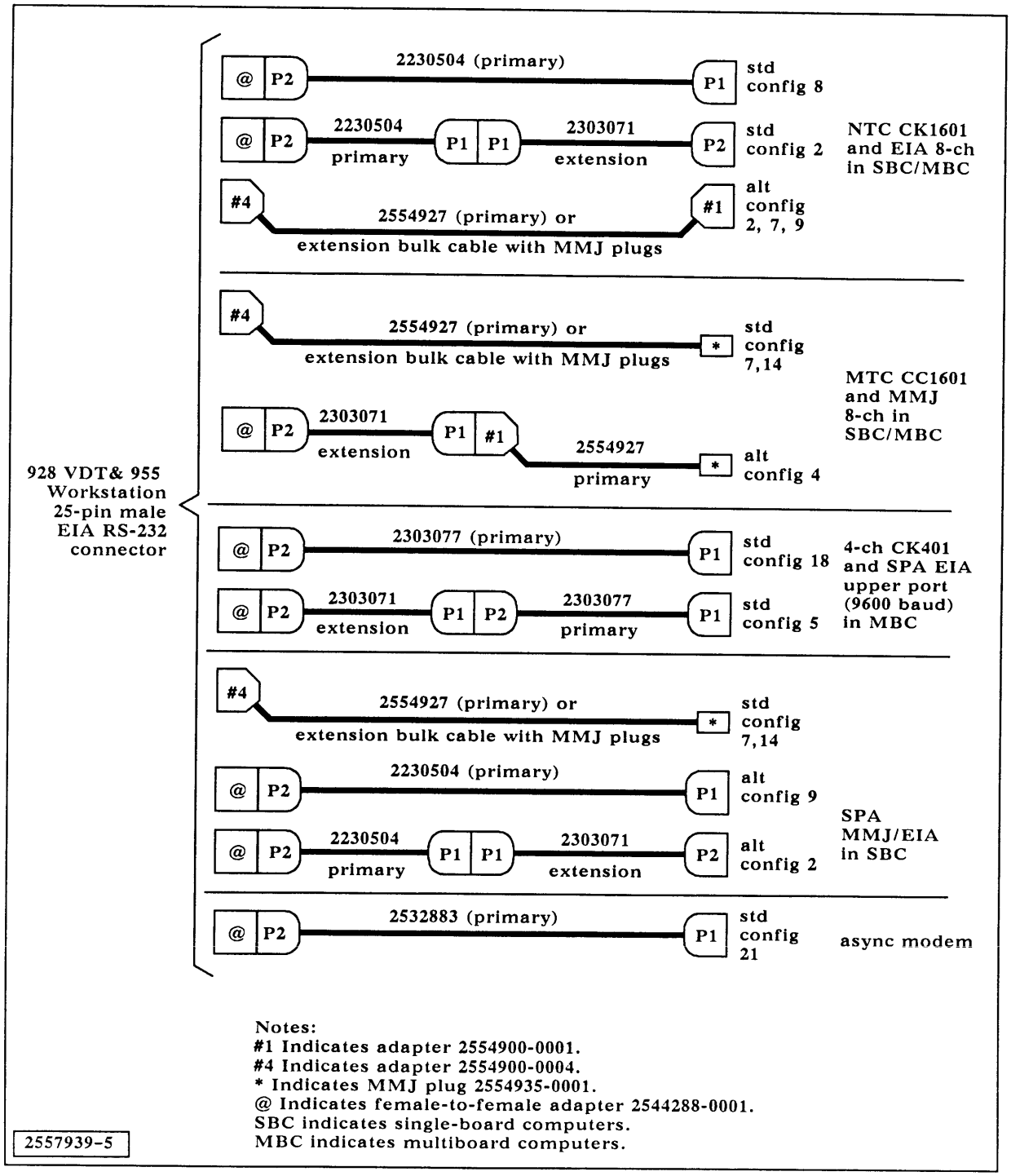


Figure 1-10 Model 928 VDT Cable Configurations (6-Pin MMJ Connector)

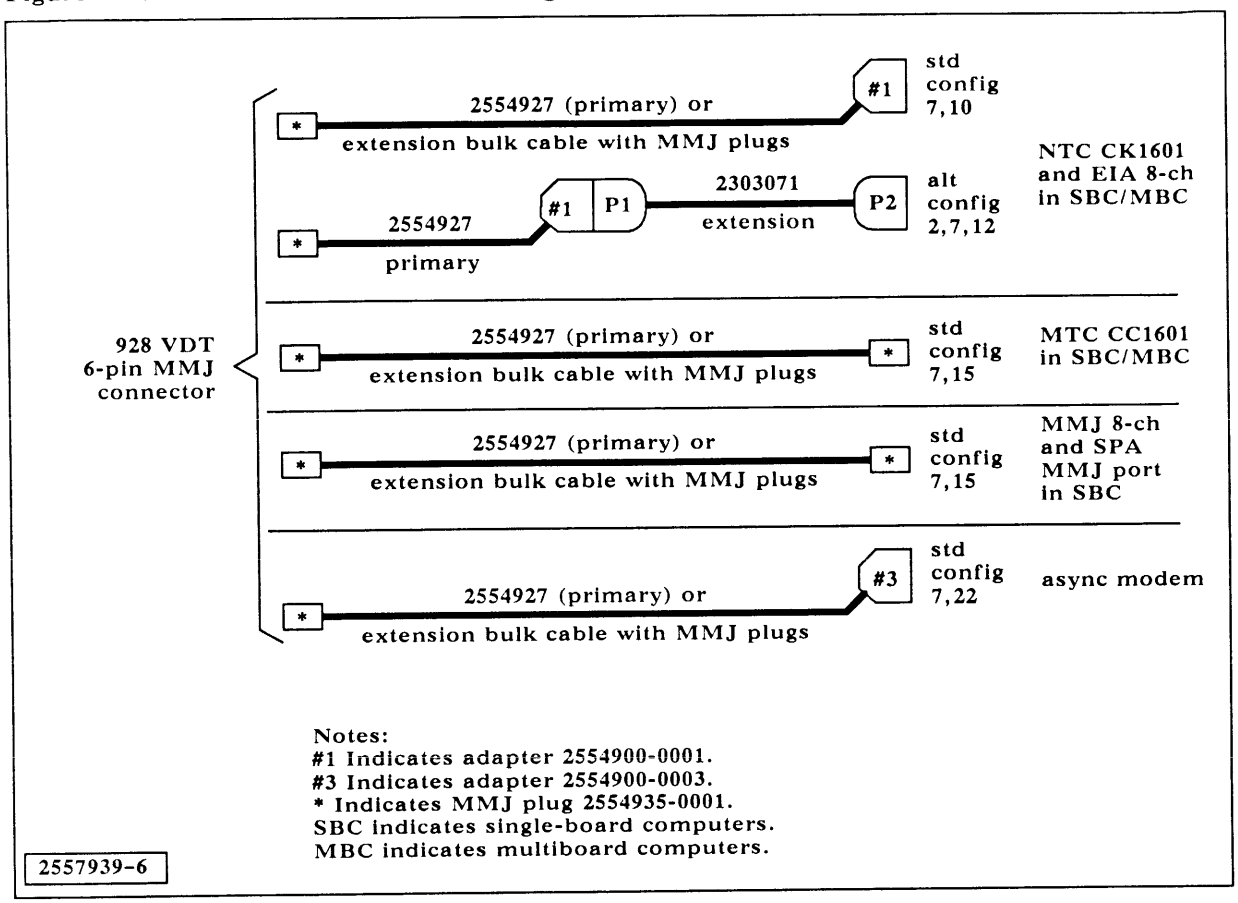


Figure 1-11 Modem Cable Configurations (25-Pin Female EIA Connector)

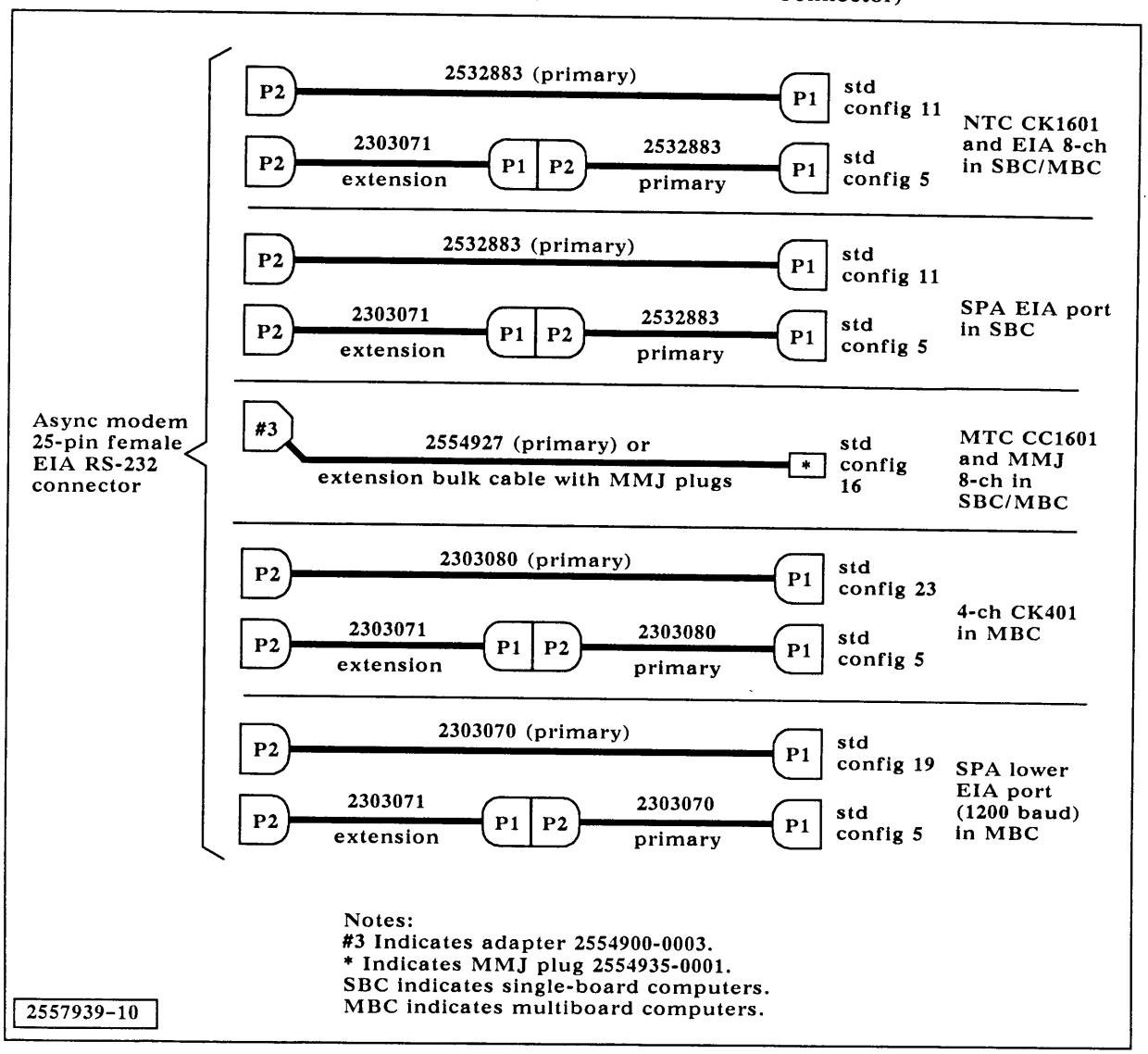


Table 1-1 describes the configuration of interface cables and adapters required to connect the VDTs to the host communication ports directly or through asynchronous EIA modems. The configuration numbers in the table identify cable combinations that use both standard and alternate combinations of cables and adapters.

In the case where both the host port and the VDT port have 25-pin EIA RS-232 connectors, the standard configuration uses cables with 25-pin EIA RS-232 connectors. When both the host port and the VDT have 6-pin RS-423 (MMJ) connectors, the standard configuration specifies cables with 6-pin RS-423 connectors.

The standard configuration specifies the optimum adapters and cables required to match the types of connectors on the host and VDT when the host and VDT have different type connectors.

The alternate cable configurations take advantage of the interchangability of RS-232 and RS-423 in complex environments where existing cables may be present, or existing VDTs are being connected to a new system. The alternate configuration may specify adapters which convert RS-232 connectors to RS-423 connectors so that the primary cable could be RS-423. In some installations, the RS-423 cable may be improper or may not meet certain building codes for routing through ceilings or walls. In this case, the alternate extension cable configuration specifies a mixture of both shielded RS-232 cables and RS-423 cables which can be used to meet these special requirements.

The 4-channel adapter and the MBC SPA have RS-232 ports implemented with 18-pin shielded connectors. Cables for both standard and alternate types use the same host cable. There is no standard configuration to connect a 6-pin RS-423 VDT to these ports.

The 928 VDT and the SBC SPA provide both RS-232 and RS-423 connectors. When connecting a remote SMT to the SPA via a modem, the baud rate must be 1200 baud. The SBC SPA has a jumper which must be set to select the baud rate between 9600 and 1200 baud. Refer to the appropriate SBC installation and operation manual for SBC SPA jumper configuration information. The MBC SPA has upper and lower ports. The lower port is 1200 baud; the upper port is 9600 baud.

When installing cables, make sure the cable connectors are securely inserted and fastened to their associated receptacles. The 25-pin cable connectors are secured by captive screws in the 25-pin cable connectors. The 6-pin MMJ connectors are secured when the connector is inserted into its receptacle and a click is heard.

Table 1-2 describes each cable and adapter specified for the VDTs.

Table 1-1 VDT Cable Configurations

Configuration Number	Configuration Description
1	Connect an appropriate length of primary cable 2230504 between the system port and the VDT port. The cable end marked "System–P1" connects to the system port and the cable end marked "Peripheral–P2" connects to the VDT.
2	Connect appropriate length of extension cable 2303071 between the system port and the primary cable or adapter. The cable end with a male connector marked P2 connects to the system port and the cable end with a female connector marked P1 connects to the primary cable or adapter. The maximum length of the primary cable and extension cable 2303071 is 1000 feet.
3	When a plenum rated or shielded cable is needed between the primary MMJ cable and the VDT with a female connector, connect the female end of extension cable 2250504 (marked P1) to adapter 2554900-0005 and the male end of the cable (marked P2) to the 25-pin female VDT connector.
4	When a plenum rated or shielded cable is needed between the primary MMJ cable and the VDT with a male connector, connect the female end of extension cable 2303071 (marked P1) to adapter 2554900-0001 and the male end of the cable (marked P2) to the 25-pin female-to-female adapter 2544288-0001. Connect the adapter to 25-pin male VDT connector.

Table 1-1 VDT Cable Configurations (Continued)

Configuration Number	Configuration Description
5	When an extension cable is needed between the 4-channel/SPA primary cable and the VDT or modem, connect the female end of extension cable 2303071 (marked P1) to the primary cable and the male end of the extension cable (marked P2) to the 25-pin female VDT connector, adapter, or modem.
6	Connect the male 25-pin connector of adapters 2554900-0001 (two adapters required) to the VDT and system ports. Connect the ends of MMJ cable 2554927 into the 6-pin connector of each adapter. Note that the MMJ cables do not have shielded signal conductors. Adapters 2554900 have noise suppression and transient protection circuits built in. Without noise and transient suppression, electromagnetic interference (EMI) may disrupt radio signals or cause data I/O errors. At this printing, VDE (a European regulatory agency) requires shielded cables.
7	Connect the appropriate length of bulk 6-conductor flat telephone cable 2554939 with MMJ plugs 2554935 in place of cable 2554927 in configurations 6, 9, 10, or 12 through 15. Bulk cable and MMJ plugs are available from TI. Refer to the MTC section in the *Terminal Concentrator Installation and Operation* manual, part number 2557938-0001, for information on using bulk 6-conductor flat telephone cable and MMJ plugs.
8	Connect an appropriate length of primary cable 2230504 between the system port and the VDT port using female-to-female adapter 2544288-0001. The cable end marked "System–P1" connects to the system port and the cable end marked "Peripheral–P2" connects to the female-to-female adapter. Connect the other end of the female-to-female adapter to the 25-pin male port of a VDT or PC.
9	Connect the male 25-pin connector of adapter 2554900-0001 to the system port and the female 25-pin connector of adapter 2554900-0004 to a VDT. Connect the ends of MMJ cable 2554927 into the 6-pin connector of each adapter. Note that the MMJ cables do not have shielded signal conductors. Adapters 2554900 have noise suppression and transient protection circuits built in. Without noise and transient suppression, EMI may disrupt radio signals or cause data I/O errors. At this printing, VDE requires shielded cables. Some cities require plenum-rated cables for routing through walls and plenums.
10	Connect the male 25-pin connector of adapter 2554900-0001 to the system port and then connect cable 2554927 between the adapter and the 6-pin MMJ port on the VDT.
11	Connect 10-foot primary cable assembly 2532883-0001 between the system 25-pin EIA RS-232 port and the modem.
12	Connect the male end (marked P2) of an appropriate length of extension cable 2303071 to the system port and the female end (marked P1) to the 25-pin connector on adapter 2554900-0001. Connect primary cable 2554927 between the MMJ connector on the adapter and the VDT.
13	Connect primary cable 2554927 to the MMJ connector on the system or MTC port and to the MMJ connector on adapter 2554900-0001. Connect the male 25-pin connector of the adapter to the VDT.

Table 1-1 VDT Cable Configurations (Continued)

Configuration Number	Configuration Description
14	Connect primary cable 2554927 to the MMJ connector on the system or MTC port and to the MMJ connector on adapter 2554900-0004. Connect the female 25-pin connector on the adapter to the VDT.
15	Connect primary cable 2554927 to the MMJ connector on the system or MTC port and to the MMJ connector on the VDT.
16	Connect primary cable 2554927 to the MMJ connector on the system or MTC port and to the MMJ connector on adapter 2554900-0003. Connect the adapter to the 25-pin connector on the asynchronous EIA modem.
17	Connect the 18-pin connector (marked P1) of primary cable 2303077 to the system port or the upper 9600 baud port of the SPA and the 25-pin male connector (marked P2) to the VDT.
18	Connect the 18-pin connector (marked P1) of cable 2303077 to the system port or the upper 9600 baud port of the SPA and the 25-pin male connector (marked P2) to the female-to-female adapter 2544288-0001. Connect the female-to-female adapter to the VDT.
19	Connect the 18-pin connector (marked P1) of primary cable 2303070 to the system port or the lower 1200 baud port of the SPA and the 25-pin male connector (marked P2) to the async modem.
20	Connect primary cable 2532883 between the VDT port and the async modem.
21	Connect primary cable 2532883 between adapter 2544288 and the async modem. Connect the adapter to the 25-pin male connector on the VDT.
22	Connect primary cable 2554927 to the VDT port and to the MMJ connector on adapter 2554900-0003. Connect the 25-pin female connector on the adapter to the 25-pin connector on the asynchronous EIA modem.
23	Connect the 18-pin connector (marked P1) of cable 2303080 to the 4-channel board and the 25-pin connector (marked P2) to the async modem.

Table 1-2 VDT Cables and Adapters

TI Part Number	Length (Approx.)	Description
2230504-0001 2230504-0002 2230504-0003	13 ft (4 m) 26 ft (8 m) 49 ft (15 m)	Cable assembly with a 25-pin, male, D-type connector on each end.
2303071-0001 2303071-0002 2303071-0003 2303071-0004 2303071-0005	20 ft (6 m) 50 ft (15 m) 100 ft (30 m) 200 ft (60 m) 10 ft (3 m)	Cable assembly with a 25-pin, male, D-type connector on one end and a 25-pin, female, D-type connector on the other end.
2303077-0001	30 ft (9 m)	Cable assembly with a 25-pin, male, D-type connector on one end and an 18-pin, female, angle-type block connector on the other end. Pin connections differ from cable 2303080.
2303080-0001	30 ft (9 m)	Cable assembly with a 25-pin, male, D-type connector on one end and an 18-pin, female, angle-type block connector on the other end. Pin connections differ from cable 2303077.
2532883-0001	10 ft (3 m)	Cable assembly with a 25-pin, male, D-type connector on each end.
2554927-0001	25 ft (7.5 m)	Cable assembly with a 6-pin, male, MMJ connector on each end.
2544288-0001		Adapter with a 25-pin, female, D-type connector on one end and a 25-pin, female, D-type connector on the other end.
2554900-0001 2554900-0003		Adapter with a 25-pin, male, D-type connector and a 6-pin, female, MMJ connector. Pin connections differ on the -0001 and -0003 adapters.
2554900-0004		Adapter with a 25-pin, female, D-type connector and a 6-pin, female, MMJ connector.
2554900-0005		Adapter with a 25-pin, female, D-type connector and a 6-pin, female, MMJ connector.

Setup as a Data I/O Terminal

1.7 Table 1-3 lists the setup parameters for a typical VDT used as a data I/O terminal. Figure 1-12 shows a typical VDT setup display for a Model 924 VDT. Refer to the applicable VDT instruction manual for details of the setup process.

Figure 1-12 Typical VDT Setup Display (Model 924 Shown)

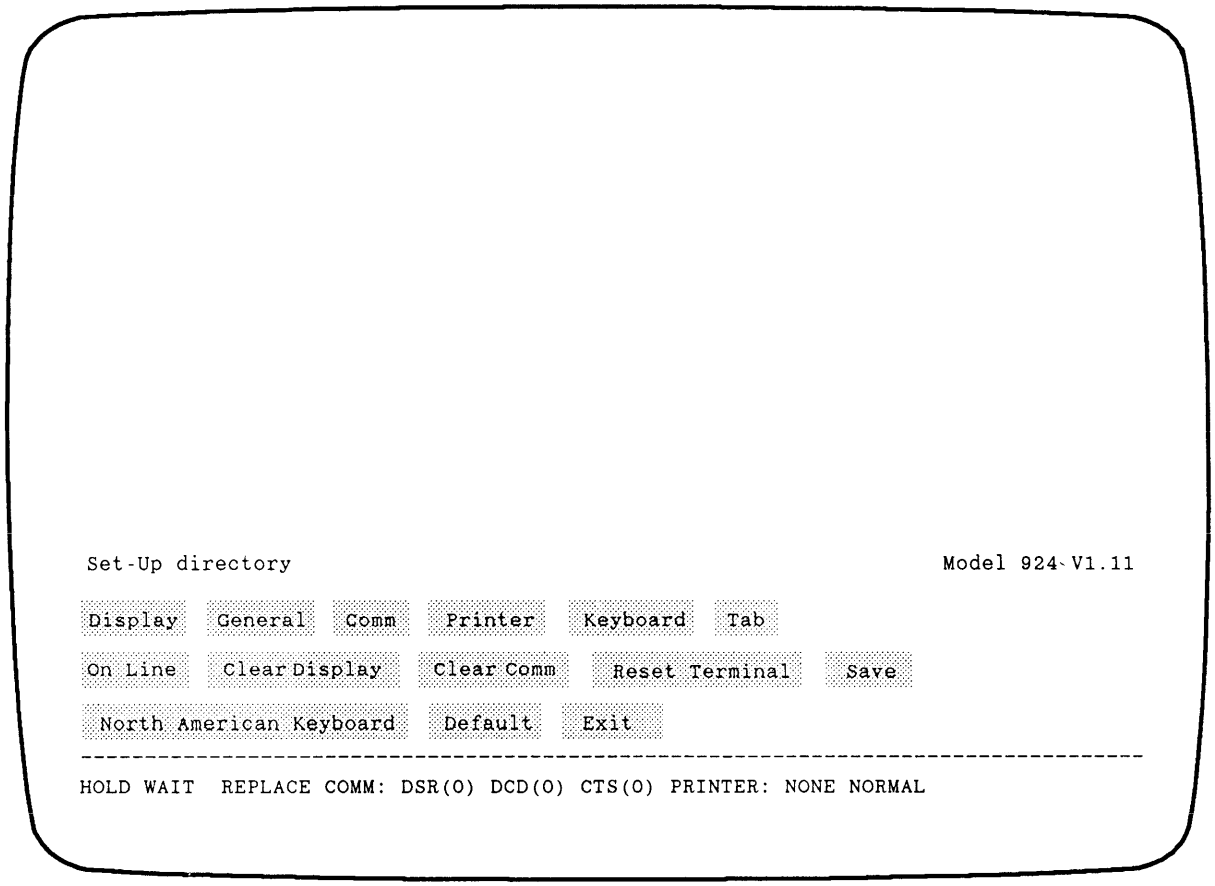


Table 1-3

VDT Default Setup Parameters for Data I/O Terminal

Parameter	Default Value
Display Setup:	
Interpret/Display Controls	Interpret Controls
80/132 Columns	80 Columns*
Auto-Wrap/No Auto-Wrap	Auto-Wrap*
Smooth/Jump Scroll	Smooth Scroll*
Normal/Reverse Video	Normal Video*
Screen Saver/No Screen Saver	Screen Saver*
Cursor/No Cursor	Cursor*
Block/Underline Cursor Style	Block Cursor Style*
Steady/Blinking	Steady*
General Setup:	
Mode	TI 924**, 7-bit control
User Features Locked/Unlocked	User Features Unlocked
Keyboard Protection	User Defined Keys Unlocked
New Line/No New Line	No New Line
Numeric/Multiply/Divide Keypad	Numeric Keypad
Communications Setup:	
Transmit=	Transmit=19200
Receive=	Receive=Transmit
XOFF at 64/128	XOFF at 128
Bits, Parity/No Parity	7 Bits, Odd Parity
1 Stop Bit/2 Stop Bits	1 Stop Bit
Local Echo/No Local Echo	No Local Echo
EIA Port, Modem Control/Data Leads Only	EIA, Port, Modem Control
Disconnect 2 s/60 ms Delay	2 s
Limited/Unlimited Transmit	Unlimited Transmit, Limited
Printer Setup:	
Speed=	Speed=9600
Normal/Auto/Controller Print Mode	Normal Print Mode
Bits, Parity/No Parity	7 Bits, Odd Parity
1 Stop Bit/2 Stop Bits	1 Stop Bit
Print Full Page/Scroll Region	Print Full Page
Print Data Type	ASCII/U.K.
No Terminator/Terminator	
Keyboard Setup:	
Break/No Break	Break
Auto/No Auto Repeat	Auto Repeat*
Keyclick/No Keyclick	No Keyclick*
Margin/No Margin Bell	No Margin Bell*
Warning/No Warning Bell	Warning Bell*
Auto-Answerback/No Auto-Answerback	No Auto-Answerback
Concealed	Not Concealed

Notes:

* These parameters can be set according to user preference.

** This parameter represents terminal native mode.

Setup as the SMT

1.8 Table 1-4 lists the setup parameters for a typical VDT used as the SMT. Refer to your VDT instruction manual for details of the setup process.

General diagnostic operating system (GDOS) software (release 2.1.0 or earlier) distributed with TI System V, release 2.2 and earlier, requires that the SMT operate in the TI-931 terminal mode. Later releases will allow the SMT to operate in its native mode rather than emulating a Model 931 terminal.

Table 1-4 **VDT Default Setup Parameters for SMT Operation**

Parameter	Default Value
Display Setup:	
Interpret/Display Controls	Interpret Controls
80/132 Columns	80 Columns*
Auto-Wrap/No Auto-Wrap	Auto-Wrap*
Smooth/Jump Scroll	Jump Scroll
Normal/Reverse Video	Normal Video*
Screen Saver/No Screen Saver	Screen Saver*
Cursor/No Cursor	Cursor*
Block/Underline Cursor Style	Block Cursor Style*
Steady/Blinking	Steady*
General Setup:	
Mode	TI 931** 7-bit controls
User Features Locked/Unlocked	User Features Unlocked
Keyboard Protection	User Defined Keys Unlocked
New Line/No New Line	No New Line
Numeric/Multiply/Divide Keypad	Numeric Keypad
Communications Setup:	
Transmit=	Transmit=9600***
Receive=	Receive=Transmit
XOFF at 64/128	XOFF at 128
Bits, Parity/No Parity	7 Bits, Odd Parity
1 Stop Bit/2 Stop Bits	1 Stop Bit
Local Echo/No Local Echo	No Local Echo
EIA Port, Modem Control/Data Leads Only	EIA, Port, Modem Control
Disconnect 2 s/60 ms Delay	2 s
Limited/Unlimited Transmit	Unlimited Transmit
Printer Setup:	
Speed=	Speed=9600***
Normal/Auto/Controller Print Mode	Normal Print Mode
Bits, Parity/No Parity	7 Bits, Odd Parity
1 Stop Bit/2 Stop Bits	1 Stop Bit
Print Full Page/Scroll Region	Print Full Page
Print Data Type	ASCII/U.K.
No Terminator/Terminator	

Table 1-4

VDT Default Setup Parameters for SMT Operation (Continued)

Parameter	Default Value
Keyboard Setup:	
Break/No Break	Break
Auto/No Auto Repeat	Auto Repeat*
Keyclick/No Keyclick	No Keyclick*
Margin/No Margin Bell	No Margin Bell*
Warning/No Warning Bell	Warning Bell*
Auto-Answerback/No Auto-Answerback	No Auto-Answerback
Concealed	Not Concealed

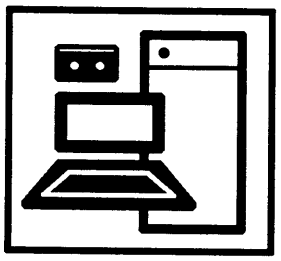
Notes:

* These parameters can be set according to user preference.

** 931 mode is a requirement of GDOS supplied with TI System V, release 2.2 and lower. The terminal may be Model 931 or Model 924 in 931 emulation mode until the next release.

*** Select 1200 bps for remote SMT.

PRINTERS



CONTENTS

1 DOT MATRIX PRINTERS

Introduction

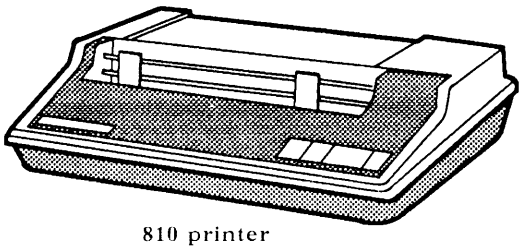
1.1 All the dot-matix impact printers are listed in Table 1-1. The descriptions given in Table 1-1 indicate which printers operate in the serial and/or parallel modes. Figure 1-1 shows a general view of each type of dot-matrix impact printer.

NOTE: Printers 830, 835, 8920, and 8930 are only supported under UNIX™ 3.2.1 with updates for additional printer support from TI-CARE℠ and later UNIX releases.

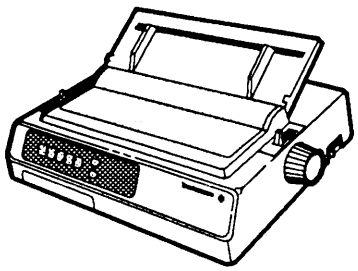
Table 1-1 Dot-Matrix Impact Printers and Accessory Items

TI Part Number	Description
2271899-0001	Model 810 Printer kit (with paper tray) (serial/parallel)
2569782-0001	Model 830 Serial Printer kit (serial/parallel)
2562932-0001	Model 830 Serial Printer pull tractor option
2569782-0002	Model 835 Printer kit (serial/parallel)
2562932-0002	Model 835 Printer pull tractor option
2562933-0001	Model 830/835 EIA-232 serial interface option
2233816-0001	Model 855 Printer kit (tractor model with paper tray) (serial only)
2233817-0001	Model 865 Printer kit (tractor model) (serial only)
2543897-0001	Model 875 Printer kit (tractor model) (serial/parallel)
2543898-0001	Model 877 Printer kit (tractor model) (serial/parallel)
2556340-0001	Model 880DP Printer kit (with paper tray) (serial/parallel)
0999841-0001	Model 810/880 Printer stand
0999839-0001	Model 810/880 Printer paper tray (stand mounted)
2569776-0001	Model 885 Parallel/Serial Printer kit (serial/parallel)
2569780-0001	Model 8920 Printer kit (serial/parallel)
2569780-0002	Model 8930 Printer kit (serial/parallel)
2557748-0001	Model 8920/8930 Printer stand kit
2557762-0001	Model 8920/8930 Printer paper tray (stand-mounted)

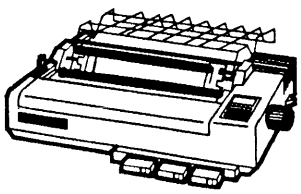
Figure 1-1 Typical Dot-Matrix Impact Printers



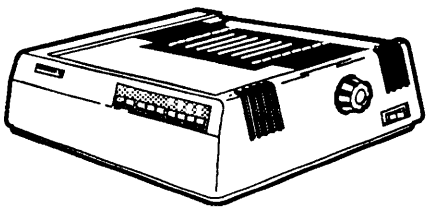
810 printer



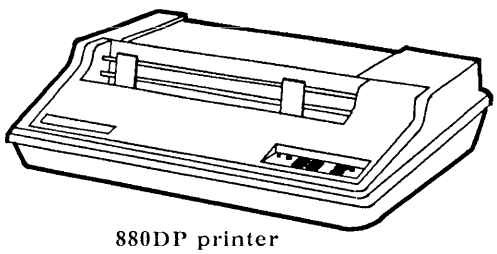
830/835 printer



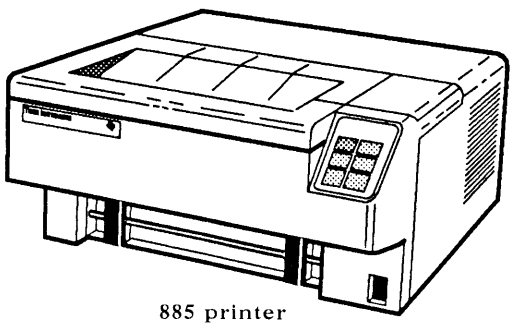
855/865 printer



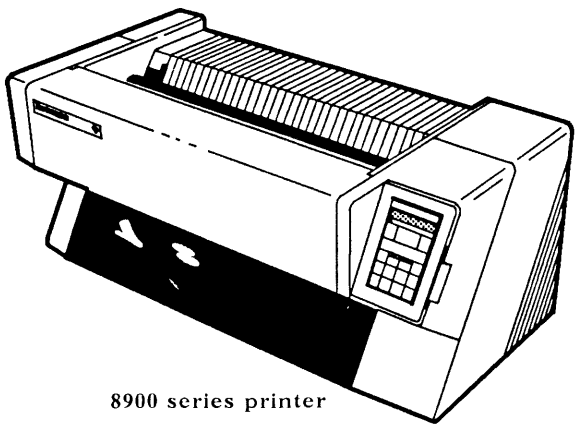
875/877 printer



880DP printer



885 printer



8900 series printer

2557939-2

Dot Matrix Printer Cables and Adapters

1.2 Table 1-2 summarizes the cable and adapter part numbers for the dot matrix printers that operate with serial I/O ports. Table 1-3 provides cable part numbers for the dot-matrix printers that operate in parallel mode through the parallel printer port.

Table 1-2 Serial Printer Cables and Adapters

Printer Model	Cable and Adapter Part Numbers for Use With				
	Model 924	Model 931	CK401	CC805 CC1601/CK1601 NTC/CK801	CK802 CC801/CC802 MTC/Model 928
810	2308663	2230504	2303080	2308663	2554927 2554900-2
830[1]	2230504	2230504	2303077	2230504	2554927 2554900-1
835[1]	2230504	2230504	2303077	2230504	2554927 2554900-1
855[2]	2230504	2230504	2303080	2230504	2554927 2554900-1
865[2]	2230504	2230504	2303080	2230504	2554927 2554900-1
875[3]	2230504	N/A	2303077	2230504	2554927 2554900-1
877[3]	2230504	N/A	2303077	2230504	2554927 2554900-1
880DP	2230504	2230504	N/A	2230504	2554927 2554900-1
885	2230504	2230504	2303077	2230504	2554927 2554900-1
8920	2230504	2230504	2303077	2230504	2554927 2554900-1
8930	2230504	2230504	2303077	2230504	2554927 2554900-1

Notes:

[1] All 830/835 kits include the serial interface option board, part number 2562933-0001.

[2] All 855/865 kits include the parallel to serial adapter cable, part number 2222477-0002.

[3] All 875/877 kits include the serial interface module, part number 2550261-0001.

Table 1-3 Parallel Printer Cables

Printer Models	Cable Part Number for Use With CK301/CK202	Cable Part Number for Use With CC301/CC202
810, 830, 835, 855, 865, 875, 877, 880, 885, 8920, 8930	2543872-0002	2223106-0001

Note:
The Model 810 printer must have the TI parallel option installed to operate with a parallel cable.

Table 1-4 Description of Printer Cables and Adapters

TI Part Number	Length (Approx.)	Description
2223106-0001	6 ft (1.8 m)	Cable assembly with a 25-pin, male, D-type connector on one end and a 36-pin, Centronics™-type interface connector on the other end.
2230504-0001 2230504-0002 2230504-0003	13 ft (4 m) 26 ft (8 m) 49 ft (15 m)	Cable assembly with a 25-pin, male, D-type connector on each end.
2303071-0001 2303071-0002 2303071-0003 2303071-0004 2303071-0005	20 ft (6 m) 50 ft (15 m) 100 ft (30 m) 200 ft (60 m) 10 ft (3 m)	Cable assembly with a 25-pin, male, D-type connector on one end and a 25-pin, female, D-type connector on the other end.
2303077-0001	30 ft (9 m)	Cable assembly with a 25-pin, male, D-type connector on one end and an 18-pin, female, angle-type block connector on the other end. Pin connections differ from cable 2303080.
2303080-0001	30 ft (9 m)	Cable assembly with a 25-pin, male, D-type connector on one end and an 18-pin, female, angle-type block connector on the other end. Pin connections differ from cable 2303077.
2308663-0001	13 ft (4m)	Cable assembly with a 25-pin, male, D-type connector on each end.
2532883-0001	10 ft (3 m)	Cable assembly with a 25-pin, male, D-type connector on each end.
2543872-0002	30 ft (9 m)	Cable assembly with a 36-pin, Centronics-type connector on one end and an 18-pin, female, angle-type block connector on the other end. For parallel printer data.
2554927-0001	25 ft (7.5 m)	Cable assembly with a 6-pin, male, MMJ connector on each end.
2554900-0001 2554900-0002		Adapter with a 25-pin, male, D-type connector and a 6-pin, male, MMJ connector. Pin connections differ on the -0001 and -0002 adapters.

Centronics is a trademark of Centronics Data Computer.

Reference Information

1.3 Table 1-5 provides part numbers and associated document titles for printers, terminals, and system level information that can be referenced as appropriate when using this section.

Table 1-5 Reference Documents

TI Part Number	Title and Sections of Interest
0994353-9701	*Model 810 Printer Operator's Manual*
2311356-9701	*Model 810 Printer Installation and Operation*
2562929-0001	*Model 830/835 Operator's Manual*
2562929-0001	*Model 830/835 Technical Reference Manual*
2225911-0001	*Model 855 Printer Operator's Manual*
2232822-0001	*Model 855 Printer Technical Reference Manual*
2249401-0001	*Model 860 XL Printer User's Manual*
2239405-0001	*Model 865 Printer Operator's Manual*
2239407-0001	*Models 860/865 Printer Technical Reference Manual*
2550268-0001	*Model 875 Printer/Model 877 Printer User's Guide*
2555210-0001	*Models 875 and 877 Printers Installation Guide*
2222627-0001	*Models 880/880DP Printer Operator's Manual*
2546046-0001	*Model 885 Printer User's Guide*
2555211-0001	*Model 885 Printer Installation Guide*
2557785-0001	*Model 8900 Series Printer User's Guide*
2557784-0001	*Model 8900 Series Printer Technical Reference Manual*
2557788-0001	*Model 8900 Series Printer Maintenance Manual*
2544365-0001	*Model 924 Video Display Terminal User's Guide*
2561031-0001	*Model 928 Video Display Terminal User's Guide*
2544365-0001	*Model 931 Video Display Terminal General Description*
2552476-0001	*Model 955 Workstation User's Guide*
2540558-0001	*TI System V User's Reference* — **devadm**(1T)
2540539-0001	*TI System V Administrator's Guide* — Configuring Devices, Printer Spooler System
2549448-0001	*TI System V Release Information*

Model 810 Printer Setup Data

1.4 Model 810 printers include an auxiliary control panel inside the access door, next to the operator control panel. A 7-section pencil switch, recessed in the auxiliary control panel, allows you to set up the basic communications parameters. Table 1-6 lists the standard settings, and Table 1-7 describes the meaning of each switch setting.

The Model 810 printer includes a processor board that includes jumpers to select parameters that should remain fixed for any given installation. Table 1-8 lists the jumper meanings and the standard jumper configurations.

For additional information, refer to the documents listed in Table 1-5.

Table 1-6 Model 810 Printer Pencil Switch Standard Settings

Switches	Standard Position	Meaning
1	On	4800 baud (Switches 1-3)
2	Off	
3	On	
4	On	Even parity (Switches 4, 5)
5	Off	
6	On	Auto line feed enabled
7	On	Auto perforation skip disabled

Table 1-7

Model 810 Printer Pencil Switch Configurations

Switches 1	2	3	Baud Rate
Off	Off	Off	110
On	Off	Off	150
Off	On	Off	300
On	On	Off	1200
Off	Off	On	2400
On	Off	On	4800 (standard)
Off	On	On	9600
On	On	On	Parallel

Switches 4	5	Parity
Off	Off	Ignore
On	On	Odd
On	Off	Even (standard)

Notes:
Switch 6: Off enables automatic line feed. On disables automatic line feed.

Switch 7: Off enables top-of-form automatic perforation skip. On disables top-of-form automatic perforation skip.

Table 1-8

Model 810 Processor Board Jumper Chart

Jumper	Function
E1-E2	Ignore delete
E2-E3*	Clear buffer on reception of DEL
E4-E5*	DNB DTR always ON when online
E5-E6	DTR goes low when busy
E7-E8	Reverse channel high when busy
E8-E9*	Reverse channel low when busy
E10-E11*	No line buffer option installed
E13-E14*	No line buffer option installed
E11-E12	Line buffer option installed
E13-E15	Line buffer option installed
E16-E17	DC1, DC3 disabled
E17-E18*	DC1, DC3 enabled

Note:
* Standard

Model 855/865 Printer Setup Data

1.5 Model 855 and Model 865 printers include an 8-section miniature switch located below the printhead carriage that allows you to set up the basic communications parameters. Table 1-9 describes the meaning of each switch setting.

For additional information, refer to the documents listed in Table 1-5.

Table 1-9 Model 855/865 Internal Setup Switches

Switch	Function
1, 2	Switches 1 and 2 select character length and parity for the printer as follows:

Switch 1	Switch 2	Interface Protocol
Off	Off	7-bit data, space parity
Off	On	7-bit data, odd parity
On	Off	7-bit data, even parity
On	On	8-bit data, no parity

3	Automatic line feed. Place switch 3 in the On position for automatic line feed on carriage return. In the Off position, line feed is not automatic.
4	Data or word processing mode. Set switch 4 in the On position to place the printer in the word processing mode, or in the Off position for the data processing mode.
5, 6, 7, 8	Baud rate/communications protocol/interface selection:

Switch 5	Switch 6	Switch 7	Baud 8	Rate	Protocol	Port
Off	Off	Off	Off	300	ready/busy	serial
Off	Off	Off	On	300	DC1/DC3	serial
Off	Off	On	Off	300	ETX/ACK	serial
Off	Off	On	On	1200	ready/busy	serial
Off	On	Off	Off	1200	DC1/DC3	serial
Off	On	Off	On	1200	ETX/ACK	serial
Off	On	On	Off	2400	ready/busy	serial
Off	On	On	On	2400	DC1/DC3	serial
On	Off	Off	Off	2400	ETX/ACK	serial
On	Off	Off	On	4800	ready/busy	serial
On	Off	On	Off	4800	DC1/DC3	serial
On	Off	On	On	4800	ETX/ACK	serial
On	On	Off	Off	9600	ready/busy	serial
On	On	Off	On	9600	DC1/DC3	serial
On	On	On	Off	9600	ETX/ACK	serial
On	On	On	On	—	—	parallel

Model 830/835 Printer Setup Data

1.6 Table 1-10 lists the cable numbers and recommended configurations for the Models 830/835 printers.

Table 1-10 Models 830/835, 875/877, 885, and 8920/8930 Installation Matrix

Interface	TI System V Config No.[1]	Cable No.[2]	Document
Multiboard Computers			
CK1601	1	2230504-0001	2540558-0001
CK16/V.35	1	2230504-0001	
CK801	1	2230504-0001	
CK401	1	2303077-0001	
CK301	2	2543872-0002	
CK301/V.35	2	2543872-0002	
CK802	1	2554927-0001[4]	
Single-Board Computers			
CC301	2	2223106-0001	
CC801	1	2554927-0001[4]	
CC802	1	2554927-0001[4]	
CC805	1	2230504-0001	
CC1601	1	2230504-0001	
CC202	2	2223106-0001	
Terminals			
TI 928 VDT	3	2554927-0001[4]	2561031-0001
TI 924 VDT	3	2230504-0001	2544365-0001
TI 931 VDT	4 (except 87x,83x, 89xx)	2230504-0001	2229228-0001
TI 955 parallel	2	2223106-0001	2552476-0001
TI 955 serial	1	2552571-0001[3]	

Notes:

1 See the applicable printer setup tables for the recommended configuration settings.

2 Cables and adapters must be ordered separately.

3 Cables, part numbers 2230504-0001 and 2544288-0001, used together, are an acceptable alternate to cable, part number 2552571-0001.

4 Adapter, part number 2554900-0001, must connect between the MMJ cable and the printer.

Table 1-11 displays the recommended setup information for the Model 830/835 printers.The indicated settings are suggested as a starting point for initial system start-up. Users may want to select other settings to allow use of more complete character sets or otherwise adjust for their application. In all cases, the settings must be matched by parameter selections made during software configuration. Table 1-12 defines all the possible the configuration settings.

For serial operation, the 830/835 printers must have the optional serial interface board, part number 2562933-0001, installed in the serial board slot at the rear of the printer. Printer kits 2569782 include the serial option and installation instructions. Before using the serial interface, make sure the parallel interface cable has been removed.Only one cable can be attached at a time. The printer auto-selects the interface to which a cable is attached.

For additional information, refer to the documents listed in Table 1-5.

Table 1-11 Model 830/835 Printer Initial Settings

Setup/Test	Configuration Numbers 1 (Serial)	2 (Parallel)	3 (924 and 928)
Baud rate	19200 bps	parallel	9600 bps
Protocol	XON/XOFF		XON/XOFF
Diagnostic test	No		No
Data bits	7		7
Parity	Odd		Odd
Busy line	DTR		DTR
DSR signal	Valid		Valid
DTR signal	Ready on power up		Ready on power up
Busy time	200 ms		200 ms

Table 1-12 Model 830/835 Printer Serial Interface Configurations

Item	Available Settings
Baud rate (bps)	19200, 9600, 4800, 2400, 1200, 600, 300
Protocol	Ready/Busy, XON/XOFF
Diagnostic test	No, Yes
data bits	8, 7
Parity	None, Odd, Even
Busy line	SSD–, SSD+, DTR, RTS
DSR signal	Valid, Invalid
DTR signal	Ready on Power Up, Ready on Select
Busy time	200 millisecond, 1 second

Model 875/877 Printer Setup Data

1.7 Table 1-10 lists the cable numbers, documentation references, and recommended configurations for the Models 875/877 printers.

Table 1-13 displays the recommended initial setup parameters for the Models 875 and 877 printers in serial and parallel modes. The indicated settings are suggested as a starting point for initial system start-up. Users may want to select other settings to allow use of more complete character sets or otherwise adjust for their application. In all cases, the settings must be matched by parameter selections made during software configuration. The documentation column contains information references for system software and terminal firmware configuration.

Table 1-14 identifies the jumper settings required for the RS-232 Serial Interface module (serial operation only). The RS-232 Serial Interface module is installed in the same location as the Parallel Interface module after removal of the cartridge connector cover at the back left corner of the printer.

For additional information, refer to the documents listed in Table 1-5.

Table 1-13 Model 875/877 Printer Initial Settings

Setup/Test	Configuration Numbers		
	1 (Serial)	2 (Parallel)	3 (924 and 928)
Baud Rate	19200 bps	parallel	9600 bps
Data Bits	7		7
Parity	Odd		Odd
Auto Line Feed	Off		Off
Busy Protocol	XON/XOFF		XON/XOFF
Stop Bits	1		1
CTS Signal Control	No		No
DSR Signal Control	No		No
DCD Signal Control	No		No

Table 1-14 Model 875/877 Printer RS-232 Serial Interface Module Jumper Settings

Jumper	1	2
J401	2 to 3	—
J402	2 to 3	—
J403	1 to 2	—
J404	1 to 2	—

Model 885 Printer Setup Data

1.8 Table 1-10 lists the cable numbers and recommended configurations for the Models 885 printer.

Table 1-15 displays the recommended setup configuration codes for the Model 885 printer.The indicated settings are suggested as a starting point for initial system start-up. Users may want to select other settings to allow use of more complete character sets or otherwise adjust for their application. In all cases, the settings must be matched by parameter selections made during software configuration. Table 1-16 defines all the possible configuration codes.

For additional information, refer to the documents listed in Table 1-5.

Table 1-15 Model 885 Printer Initial Configuration Codes

Item	Configuration Numbers			
	1 (Serial)	2 (Parallel)	3 (924 and 928)	4 (931 Only)
Baud rate	2A	parallel (COMM mode code 17)	28	28
Parity	35		35	35
COMM mode codes	13		13	14
Misc codes	81 83 9B		81 83 9B	81 9B

Table 1-16 Model 885 Printer Configuration Code Definitions

Configuration Code	Definition
Communications mode selection (one only)	13 Full-duplex modem mode (Required for XON/XOFF) 14 Direct connection mode, pin 11 of serial interface ON for READY 15 Direct connection mode, pin 11 of serial interface OFF for READY 16 Current loop 17 Parallel interface 18 Communications controller interface (if installed)
Baud rate (one only)	21 110 bits per second 22 200 bits per second 23 300 bits per second 24 600 bits per second 25 1200 bits per second 26 2400 bits per second 27 4800 bits per second 28 9600 bits per second 2A 19200 bits per second

Table 1-16 Model 885 Printer Configuration Code Definitions (Continued)

Configuration Code	Definition				
Parity selection (one only)		**Data Bits**	**Parity Bits**	**Parity Format**	**Received Bits Checked**
	31	7	1	Odd	No
	32	7	1	Even	No
	35	7	1	Odd	Yes
	36	7	1	Even	Yes
	37	7	1	Mark	No
	38	7	1	Space	No
	39	8	0	Not Used	No
	3A	8	1	Odd	Yes
	3B	8	1	Even	Yes
National language version (one only)	41	United States			
	42	France			
	43	United Kingdom			
	44	Germany/Austria			
	45	Sweden/Finland			
	46	Denmark/Norway			
	47	Spain/Latin America			
	48	Switzerland			
	49	Canadian French			
Miscellaneous codes (not limited)	81	Execute escape sequences			
	83	Send DC1 when READY; DC3 when BUSY*			
	84	Do LF and CR on reception of LF			
	85	Do LF and CR on reception of CR			
	87	Print all control characters			
	8A	Enable BUSY on pin 20 (DTR) of RS-232 connector			
	8B	Do CR after LF, VT, DC2			
	8C	Enable vertical raster graphics			
	95	Manual tearoff; disable automatic 7-second delay			
	99	Enable horizontal raster graphics			
	9A	SO selects expanded print for one line			
	9B	Power-up on line			
	9C	Select 256-byte input buffer			

Note:
* DC1/DC3 is the same as XON/XOFF.

Model 8900 Series Printer Setup Data

1.9 Table 1-10 lists the cable numbers and recommended configurations for the Model 8900 Series printers.

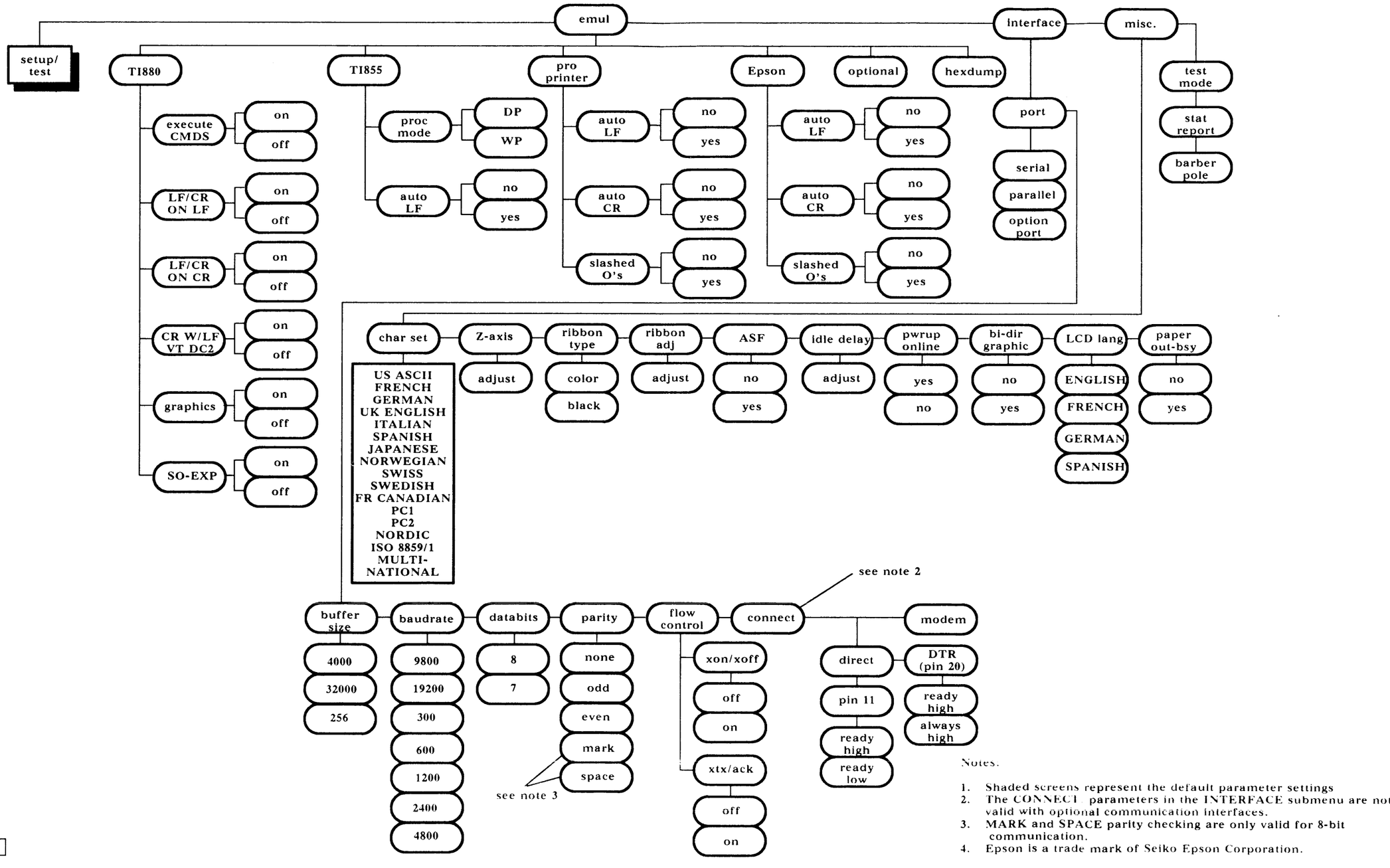
Table 1-17 displays the recommended setup information for the Model 8900 Series printers.The indicated settings are suggested as a starting point for initial system start-up. Users may want to select other settings to allow use of more complete character sets or otherwise adjust for their application. In all cases, the settings must be matched by parameter selections made during software configuration. Figure 1-2 defines all the possible setup and testing configurations.

For additional setup information, refer to the applicable documents listed in Table 1-5.

Table 1-17 Model 8900 Series Printer Initial Setup Information

	Configuration Numbers		
Setup/Test	**1 (Serial)**	**2 (Parallel)**	**3 (924 & 928)**
Interface baud rate	19200 bps	parallel	9600 bps
Data bits	7		7
Parity	Odd		Odd
Flow control	ON/XOFF = ON		XON/XOFF = ON
Connect	Direct: DTR: Ready		Direct: DTR: Ready
Buffer size	32,000		32,000

Figure 1-2 Model 8900 Series Setup and Testing Menus

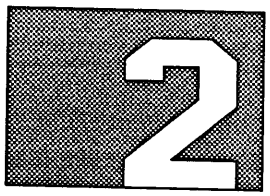


Notes:

1. Shaded screens represent the default parameter settings
2. The CONNECT parameters in the INTERFACE submenu are not valid with optional communication interfaces.
3. MARK and SPACE parity checking are only valid for 8-bit communication.
4. Epson is a trade mark of Seiko Epson Corporation.

2557788-46

LASER PRINTERS



Introduction

2.1 Table 2-1 lists the Texas Instruments laser printers that can be used with your system. Figure 2-1 shows a general view of each type of laser printer.

All the printers print in the parallel mode when connected to the 3-channel CK301/CC301, CC202, or the V.35/parallel printer adapters. All the printers print in the serial mode when connected to the 4-channel CK401, the 8-channel CK801/CC801, the CC805, an attached printer to a video display terminal (VDT), a network terminal concentrator (NTC), or a multidrop terminal concentrator (MTC).

Table 2-1 **Laser Printer Kits**

TI Part Number	Description
2569781-0001	microLaser™ 210 Serial Page Printer(120-volt)
2569778-0001	OmniLaser™ 2108 Page Printer kit (35-font model)
2569779-0001	OmniLaser 2115 Page Printer kit (35-font model)
2569777-0001	OmniLaser 2015 Page Printer kit (13-font model)
2550484-0001	OmniLaser 2106 Page Printer kit (35-font model)

Note:
Options and consumable items for the laser printers can be purchased from TI Spare Parts.

NOTE: The microLaser printer is only supported under UNIX 3.2.1 with updates for additional printer support from TI-CARE and later UNIX releases.

Table 2-2 lists reference documents for all the laser printers, associated video display terminals (VDTs), and system level documents that have configuration information.

Figure 2-1 Typical Laser Printers

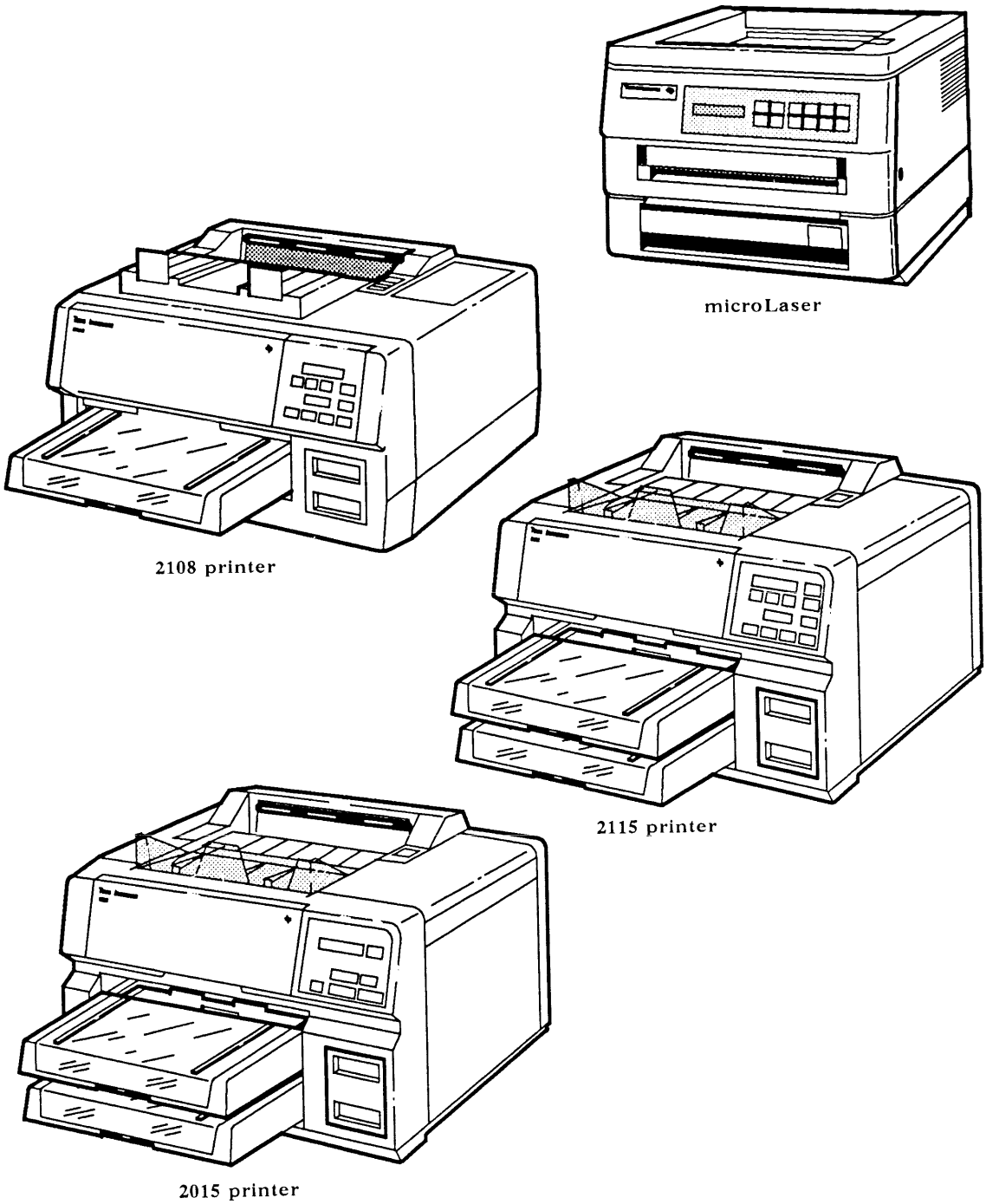


Table 2-2 Reference Documents

TI Part Number	Title and Sections of Interest
2539178-0001	*OmniLaser 2015 Page Printer Operator's Manual*
2546348-0001	*OmniLaser 2108 Page Printer Operator's Manual*
2550477-0001	*OmniLaser 2106 Page Printer Operator's Manual*
2546344-0001	*OmniLaser 2115 Page Printer Operator's Manual*
2555737-0001	*microLaser 210 User's Manual*
2559876-0001	*microLaser 210 Technical Reference Manual*
2549443-0001	*Printer Models 2015, 2108, 2106, and 2115 Installation Guide*
2540558-0001	*TI System V User's Reference* — **devadm**(1T)
2540539-0001	*TI System V Administrator's Guide* — Configuring Devices, Printer Spooler System
2549448-0001	*TI System V Release Information*
2243190-0001	*Introduction to Explorer System* — Printing files and screens
2549281-0001	*Explorer Input/Output Reference* — Printers
2544365-0001	*924 Video Display Terminal User's Guide* — Set-Up
2561031-0001	*928 Video Display Terminal User's Guide* — Set-Up
2229228-0001	*931 Video Display Terminal User's Guide* — Configuration

Model 2015 Printer Setup Data

2.2 Table 2-3 lists cable numbers, documentation references, and recommended configurations for the Model 2015 printer. This data is extracted from a more extensive table in the installation guide.

Figure 2-2 displays the recommended switch settings for the Model 2015 printer. The indicated settings are suggested as a starting point for initial system start-up. Users may want to select other settings to allow use of more complete character sets or otherwise adjust for their application. In all cases, the settings must be matched by parameter selections made during software configuration. The documentation column contains manual references for system software and terminal firmware configuration. For additional information, refer to the documents listed in Table 2-2.

The kit part number for the Model 2015 laser printer is 2569777-0001.

Table 2-3 Model 2015 Installation Matrix

Interface	TI System V Config No.[1]	Explorer™ Config No.	Cable No.[2]	Documents
Multiboard Computers				
CK1601	1		2230504-0001	2540558-0001
CK16/V.35	1		2230504-0001	
CK801	1		2230504-0001	
CK401	1		2303077-0001	
CK301	2		2543872-0002	
CK301/V.35	2		2543872-0002	
CK802	1		2554927-0001[4]	
Single-Board Computers				
CC301	2		2223106-0001	
CC801	1		2554927-0001[4]	
CC802	1		2554927-0001[4]	
CC805	1		2230504-0001	
CC1601	1		2230504-0001	
CC202	2		2223106-0001	
Explorer Computers				
SIB parallel		2	2235641-0002	2243190-0001
SIB serial		1	2535682-0001	2549281-0001
Terminals				
TI 928 VDT	1		2554927-0001[4]	2561031-0001
TI 924 VDT	1		2230504-0001	2544365-0001
TI 931 VDT	6		2230504-0001	2229228-0001
TI 955 parallel	2		2223106-0001	2552476-0001
TI 955 serial	1		2552571-0001[3]	

Notes:

1 See Figure 2-2 for the recommended configuration settings.

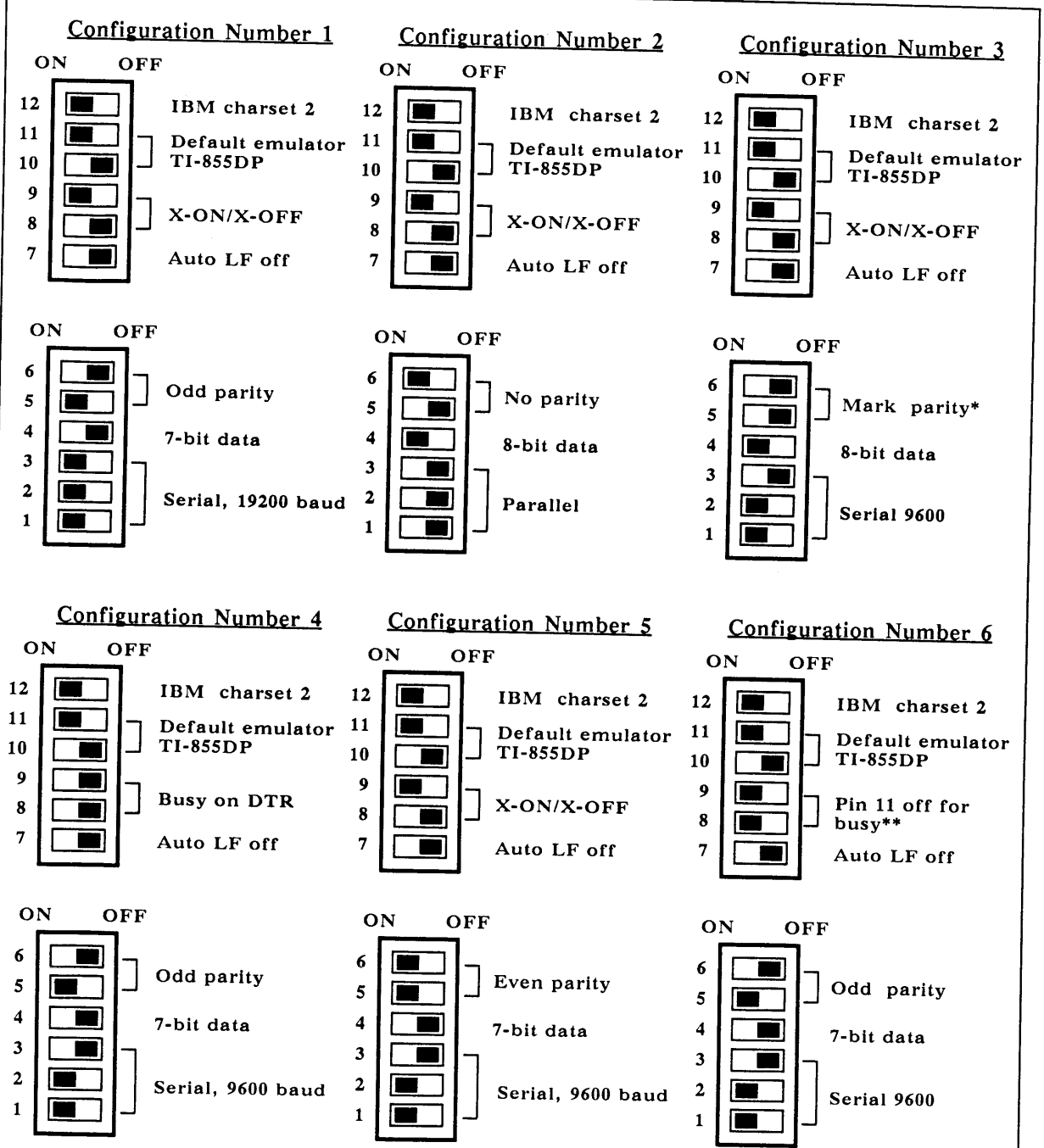
2 Cables and adapters must be ordered separately.

3 Cables, part numbers 2230504-0001 and 2544288-0001, used together, are an acceptable alternate to cable, part number 2552571-0001.

4 Adapter, part number 2554900-0001, must connect between the MMJ cable and the printer.

Explorer is a trademark of Texas Instruments Incorporated.

Figure 2-2 Model 2015 Laser Printer Switch Settings



Notes:
* If you have selected 8-bit data, the printer expects a ninth bit as a party bit, only if you also select odd or even parity.
** This is equivalent to "Pin 11 on for ready".

IBM is a trademark of International Business Machines Corporation.

Models 2106, 2108, and 2115 Printer Setup Data

2.3 Table 2-4 lists cable numbers, documentation references, and recommended configurations for the Models 2106, 2108, and 2115 laser printers. Kit part numbers for the laser printers are as follows:

- Model 2106, kit part number 2550484-0001
- Model 2108, kit part number 2569778-0001
- Model 2115, kit part number 2569779-0001

Table 2-4 Models 2106, 2108, and 2115 Installation Matrix

Interface	TI System V Config No.[1]	Explorer Config No.	Cable No.[2]	Documents
Multiboard Computers				
CK1601	1		2230504-0001	2540558-0001
CK16/V.35	1		2230504-0001	
CK801	1		2230504-0001	
CK401	1		2303077-0001	
CK301	2		2543872-0002	
CK301/V.35	2		2543872-0002	
CK802	1		2554927-0001[4]	
Single-Board Computers				
CC301	2		2223106-0001	
CC801	1		2554927-0001[4]	
CC802	1		2554927-0001[4]	
CC805	1		2230504-0001	
CC1601	1		2230504-0001	
CC202	2		2223106-0001	
Explorer Computers				
SIB parallel		8	2235641-0002	2243190-0001
SIB serial		7	2535682-0001	2549281-0001
Terminals				
TI 928 VDT	1		2554927-0001[4]	2561031-0001
TI 924 VDT	1		2230504-0001	2544365-0001
TI 931 VDT	6		2230504-0001	2229228-0001
TI 955 parallel	2		2223106-0001	2552476-0001
TI 955 serial	1		2552571-0001[3]	

Notes:

1 See Figure 2-5 for the recommended configuration settings.

2 Cables and adapters must be ordered separately.

3 Cables, part numbers 2230504-0001 and 2544288-0001, used together, are an acceptable alternate to cable, part number 2552571-0001.

4 Adapter, part number 2554900-0001, must connect between the MMJ cable and the printer.

Table 2-5 displays the recommended setup parameters for the Models 2106, 2108, and 2115 printers. The indicated settings are suggested as a starting point for initial system start-up. Users may want to select other settings to allow use of more complete character sets or otherwise adjust for their application. In all cases, the settings must be matched by parameter selections made during software configuration. The documentation column contains manual references for system software and terminal firmware configuration. For additional information, refer to the documents listed in Table 2-5.

Table 2-5 Models 2106, 2108, and 2115 Setup Parameters

	Configuration Number							
	1	2	3	4	5	6	7	8
Software Interface Settings								
TI 855	X	X	X	X	X	X		
DP Mode	X	X	X	X	X	X		
PostScript (Batch)							X	X
Hardware Interface Settings								
Parallel		X						X
Serial RS-232-C	X		X	X	X	X	X	
BAUD rate	19200		9600	9600	9600	9600	19200	
Data bits	7		8	7	7	7	8	
Stop bits	1		1	1	1	1	1	
Parity	Odd		Mark*	Odd	Even	Odd	Space	
Flow Control								
X-ON/X-OFF	X		X		X		X	
Busy on DTR-Pin 20				X				
Pin 11 High (ON for ready)						X		
Pin 11 Low (OFF for ready)								
ETX-ACK								

Note:
* If you have selected 8-bit data, the printer expects a ninth bit as a parity bit, only if you also select odd or even parity.

microLaser Models 210 and PS210 Printer Setup Data

2.4 Table 2-6 lists cable numbers, documents, references, and recommended configurations for the microLaser Models 210 and PS210 printers. Kit part numbers for the microLaser printers are as follows:

- Model 1210, kit part number 2569781-0001
- Model PS210, kit part number 2569781-0002

Table 2-6 microLaser Models 210/PS210 Installation Matrix

Interface	TI System V Config No.[1]	Explorer Config No.	Cable No.[2]	Documents
Multiboard Computers				
CK1601	1		2230504-0001	2540558-0001
CK16/V.35	1		2230504-0001	
CK801	1		2230504-0001	
CK401	1		2303077-0001	
CK301	2		2543872-0002	
CK802	1		2554927-0001[4]	
Single-Board Computers				
CC301	2		2223106-0001	
CC801	1		2554927-0001[4]	
CC802	1		2554927-0001[4]	
CC805	1		2230504-0001	
CC1601	1		2230504-0001	
CC202	2		2223106-0001	
Explorer Computers				
SIB parallel		Not supported		
SIB serial		Not supported		
Terminals				
TI 928 VDT	1		2554927-0001[4]	2561031-0001
TI 924 VDT	1		2230504-0001	2544365-0001
TI 931 VDT	Not supported			
TI 955 parallel	2		2223106-0001	2552476-0001
TI 955 serial	1		2552571-0001[3]	

Notes:

1 See Figure 2-6 for the recommended configuration settings.

2 Cables and adapters must be ordered separately.

3 Cables, part numbers 2230504-0001 and 2544288-0001, used together, are an acceptable alternate to cable, part number 2552571-0001.

4 Adapter, part number 2554900-0001, must connect between the MMJ cable and the printer.

Table 2-7 displays the recommended setup parameters for the Models 210 and PS210 microLaser printers. The indicated settings are suggested as a starting point for initial system start-up. Users may want to select other settings to allow use of more complete character sets or otherwise adjust for their application. In all cases, the settings must be matched by parameter selections made during software configuration. For additional information, refer to the documents listed in Table 2-2.

The serial interface option, part number 2555741-0001, must be installed to operate in the serial mode. Kit, part number 2569781, contains the serial option and instructions for installation.

Table 2-7 **microLaser Setup Parameters**

Printer Setup Configuration	Configuration Number 1	2
Emulation	HPII	HPII
I/O	RS-232	Std-Parallel
Baud rate	19200	
Data bits	7	
Parity	Odd	
Flow control		
X-on/X-off	Rbst Off	
DTR	High	
Pin 11		
EXT/ACK		
Miscellaneous		
Buffer size	4K	4K
Busy Offline	Yes	

Terminal/Printer Information
Customer Response

Your comments and suggestions
help us improve our products.

Your computer type_____ Date_____

Your name_____

Company name/department_____

Telephone ( )_____ Address_____

City_____ State_____ Zip_____

ABOUT YOUR SYSTEM. . .

Size of memory (RAM)_____ Type of display_____

Other options _____

_____

Check if you have:

☐ One diskette drive ☐ Two diskette drives ☐ Winchester disk

YOUR RESPONSE CONCERNS. . .

☐ Software

☐ Manual

Did you run diagnostics? ☐ Yes ☐ No

TI Part No._____

Version No._____

Serial No. (if any)_____

Error code or message_____

YOUR COMMENTS. . .

If your comments concern a manual, please include applicable page numbers.

Have you attached additional comments? ☐ Yes ☐ No

Date received by TI_____

TAPE EDGE TO SEAL

FOLD

NO POSTAGE
NECESSARY
IF MAILED
IN THE
UNITED STATES

BUSINESS REPLY MAIL

FIRST-CLASS PERMIT NO. 7284 DALLAS, TX

POSTAGE WILL BE PAID BY ADDRESSEE

TEXAS INSTRUMENTS INCORPORATED
INFORMATION TECHNOLOGY GROUP
ATTN: SUSTAINING
P.O. BOX 149149 M/S 2201
AUSTIN, TEXAS 78714-9149

FOLD