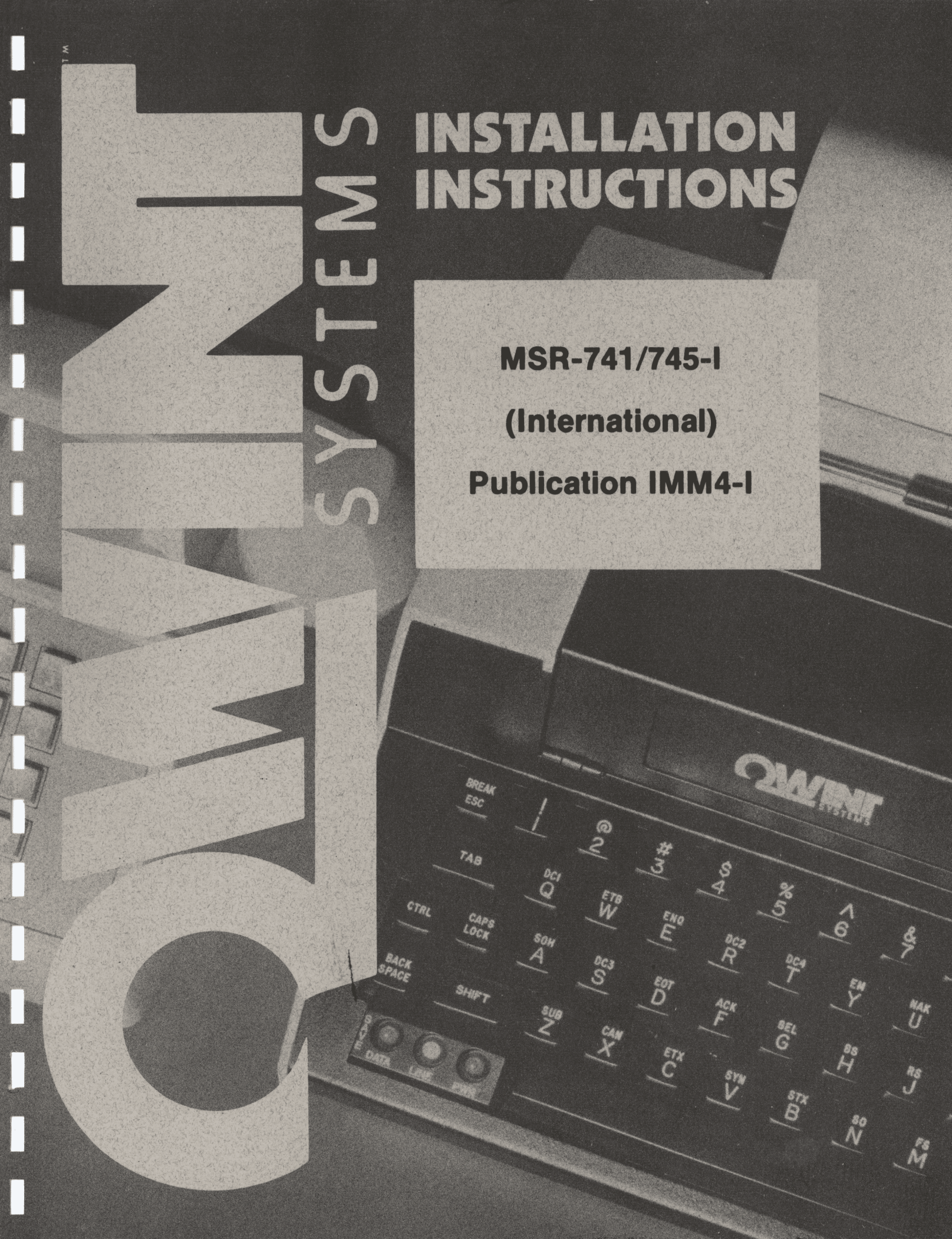
QWIN SYSTEMS

INSTALLATION INSTRUCTIONS

MSR-741/745-I

(International)

Publication IMM4-I



QWINT INTERNATIONAL INSTALLATION MANUAL (B)

INTERNATIONAL MODELS
MSR742-I
MSR743-I
MSR744-I
MSR745-I

PUBLICATION IMM4I
REVISION B
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TABLE OF CONTENTS

Information contained in this manual is applicable to the following Qwint Teleprinter Models:

APPLICABILITY CHART

MODEL	DASH NUMBER	VERSION	REVISION
MSR742	-16B	5	A or later
MSR743	-16B	5	A or later
MSR744	-16B	5	A or later
MSR745	-16B	5	A or later

You can determine the model, software version, and revision of your teleprinter by executing TEST 4. See the Programmer Reference Manual (PRM4I) for instructions on use of the TEST mode.

CHAPTER 1. GENERAL INFORMATION

1.1 Features

The Qwint Personal Communications Terminal contains the following primary elements:

- A dot matrix plain paper printer
- An office typewriter quality keyboard, which can be configured to 10 different international use character sets and is available in a CCITT #5 (ASCII) layout or a CCITT #2 (Baudot) configuration.
- An internal memory which
  - has a work area for use in inputing or editing a message or character string
  - has 13 programmable keys (areas) to store messages or character strings for later transmission or later editing
- An internal answerback
- An internal Bell 103/CCITT V.21 compatible modem (MSR-744/45 models only)
- An auto-ranging power supply which accepts a wide range of voltages and frequencies

The international models of the Qwint teleprinter are designed for maximum flexibility. This manual describes how to configure the terminals and select options, so that they can operate efficiently in a wide range of applications.

1.2 Physical Size

Figure 1-1 shows the teleprinter dimensions and weight for installation planning. When selecting a location for the unit, allow enough space behind it so that paper rolls can be changed conveniently.

CHAPTER 1. GENERAL INFORMATION (Cont'd)

1.2 Physical Size (Cont'd)

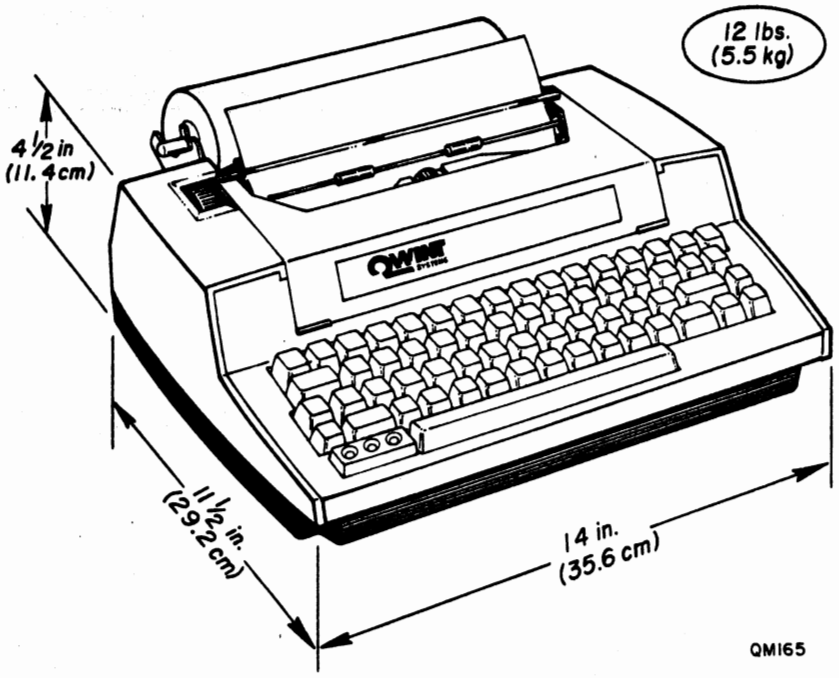


FIGURE 1-1. TELEPRINTER DIMENSIONS AND WEIGHT

1.3 Environmental Requirements

1. Operating Temperature: 40 to 105 degrees Fahrenheit. (5 to 40 degrees Centigrade).

2. Airflow Requirements: None. Natural convection satisfies all cooling requirements.

3. Relative Humidity: 5 to 95% noncondensing.

4. Storage Temperature: -5 to 155 degrees Fahrenheit. (-20 to 70 degrees Centigrade).

5. Elevation Restrictions: 7000 feet (2100 meters).

CHAPTER 2. ELECTRICAL CONNECTION

2.1 Power Line

The power entry connection is provided tia a 3-wire grounded connector at the end of an 8 foot (2.5 m) power cord. This should be connected to a 3-wire grounded socket providing power which meets the following requirements:

Teleprinter Power Requirements

Voltage:	93 to 264 VAC
Frequency:	47 to 400 Hz
Configuration:	Balanced or Unbalanced (switch selectable)
Power Drain:	0.6 A maximum at 115 VAC

Figure 2-1 shows diagrams of balanced and unbalanced power line configurations. One leg of an unbalanced line (Figure 2-1B) is connected to earth ground. In a balanced line (Figure 2-1A) both legs are hot.

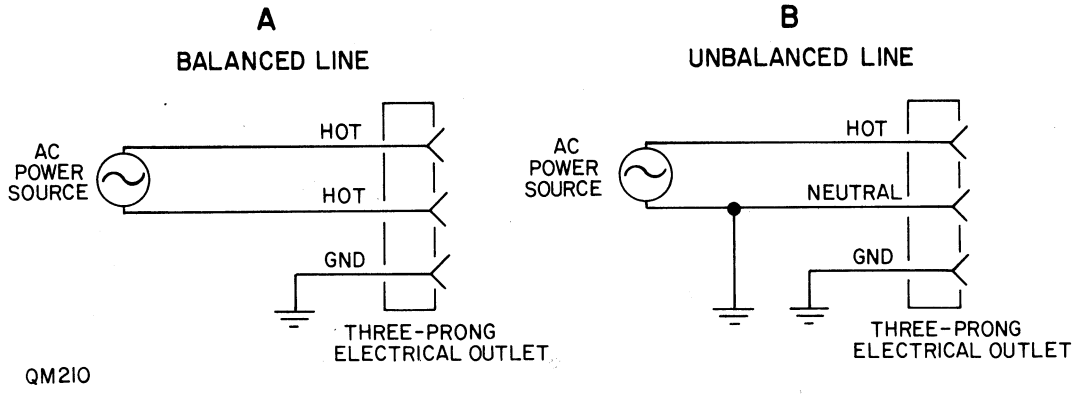


FIGURE 2-1. POWER LINE CONFIGURATIONS

Determine the configuration of your power line and set the Balance/Unbalance switch accordingly. (See Figure 2-2.)

CHAPTER 2. ELECTRICAL CONNECTION (Cont'd)

2.1 Power Line (Cont'd)

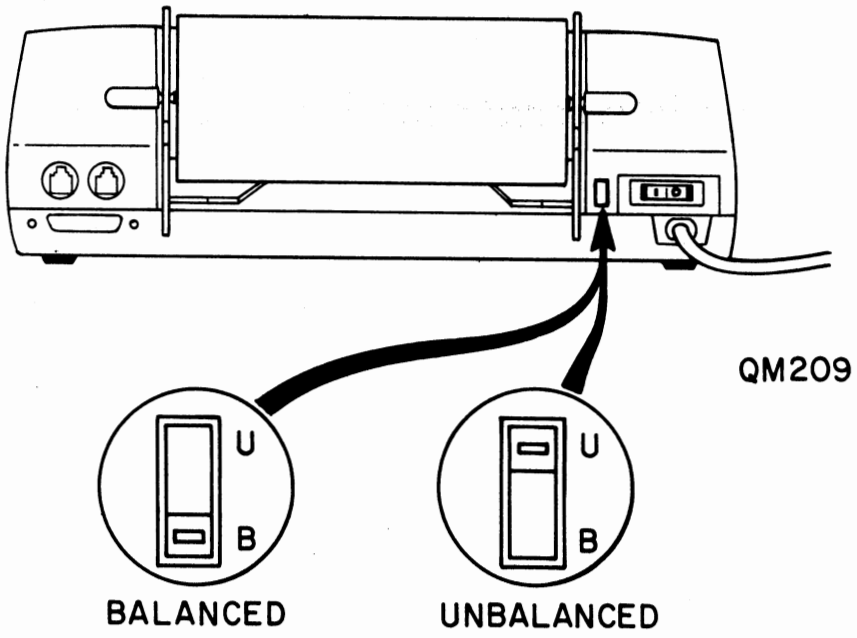


FIGURE 2-2. LINE BALANCE SWITCH

Table 2-1 shows the definition of the conductors in the unit power cord vs. the balance switch setting.

TABLE 2-1. LINE BALANCE SWITCH SETTINGS

LINE CORD CONDUCTOR	SWITCH SETTING	
	BALANCED	UNBALANCED
BLUE	HOT	HOT
BROWN	HOT	NEUTRAL
GREEN	EARTH GROUND	EARTH GROUND

Teleprinters are supplied with a 3-prong plug suitable for North American 115V connections. (See Figure 2-3.) For use outside North America, it may be necessary to remove the 115V plug and substitute a new plug which is compatible with your local power mains. In wiring up your plug, please observe the color code of Table 2-1.

CHAPTER 2. ELECTRICAL CONNECTION (Cont'd)

2.1 Power Line (Cont'd)

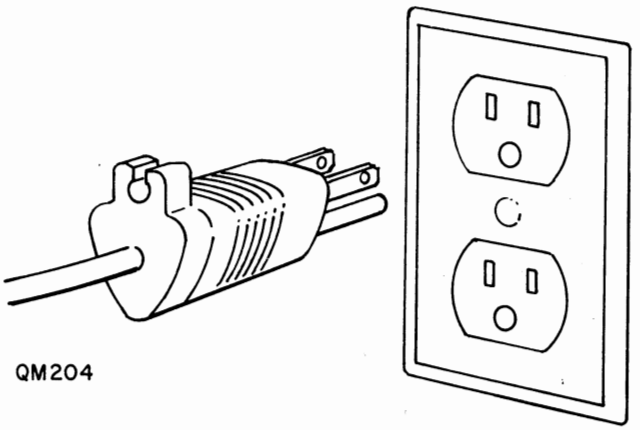


FIGURE 2-3. THREE-PRONGED PLUG

The teleprinter contains an auto-ranging power supply which will automatically accept any input voltage from 93 to 264 volts with no switch or jumper settings necessary.

The power switch for the terminal is at the left rear of the unit. When the unit is turned ON, the "PWR" indicator lamp should glow bright red. As power is applied, the carrier should move to the left until it reaches the left hand margin. This homes the carrier in preparation for printing.

2.2 Signals

MSR-744 and 745 models contain an internal modem. This modem is intended for telephone communications only and should not be used for Telex service. The modem may be used with the Model CUP 301 acoustic adapter or it may be connected directly to the telephone lines via either of the RJ-11 jacks on the teleprinter back panel.

NOTE: Be sure to have the necessary approvals from the telephone company, communications authority, or PTT before connecting to the telephone network.

Table 2-2 gives the RJ-11 connector signals in case it is necessary to convert to another type of plug.

TABLE 2-2. RJ-11 CONNECTOR SIGNALS

Connector Pin	Jack 1	Jack 2
3	Tip	Ring
4	Ring	Tip

CHAPTER 2. ELECTRICAL CONNECTION (Cont'd)

2.2 Signals (Cont'd)

The internal modem is compatible with Bell 103 and CCITT V.21 FSK signalling schemes. Modem type and long (or short) space disconnect are prompted from the teleprinter keyboard via the PRG key. (See Section 3.2 for instructions on the use of the PRG key.)

When electrically connected to the telephone network, the International FSK modem may originate, answer, automatically pulse dial or automatically answer in either the Bell 103 or CCITT V.21 mode. The modem will also work with the acoustic coupler option. With the acoustic option, originate or answer operation is selected by a switch on the coupler.

NOTE: Both the power and the telephone cables should be routed such that there is no opportunity for them to become accidentally disconnected by someone stepping or tripping on them. Special thought and care should be given to this at the installation, since the teleprinter is a small desktop personal-sized unit.

CHAPTER 3. TERMINAL CONFIGURATION

3.1 Keyboard Layout

International models are available with either of two keyboards: a universal CCITT #2 (Baudot) arrangement, or a CCITT #5 (ASCII) configuration. These keyboards are illustrated in Appendix A.

The Baudot keyboard is suitable for use world-wide without keycap substitution. The national character variants are represented on the Baudot keyboard by the symbols □, ⊟, and ☑ which appear on the top row of the keyboard. These keys take on specific national character meanings depending on which national character set the machine is prompted for.

ASCII (CCITT #5) teleprinters are normally supplied with a United Kingdom keyboard layout and character set. In case it is necessary to change this layout, a keycap remover and a full set of optional keycaps are supplied with each ASCII international teleprinter. The complete set of keyboard layouts supported by the terminal is given in the Appendix of this document. Figure 3-1 shows how to use the keycap remover. Simply use the remover to grasp the underside of the keycap, then pull up. Press the new keycap into place.

Table 3-1 shows which models are shipped with ASCII (CCITT #5) keyboards and which are shipped with Baudot.

TABLE 3-1. TYPE OF KEYBOARD PROVIDED

TERMINAL	CCITT #2 BAUDOT	CCITT #5 ASCII
MSR-742	yes	
MSR-743		yes
MSR-744		yes
MSR-745		yes

You will note below that these machines can be set up, in program mode, for either an ASCII or Baudot keyboard. This software flexibility allows machines to be changed from one CCITT code to the other by exchanging the terminal keyboard, but without the need to replace program memory chips.

These machines can also be programmed to communicate in either CCITT #2 or #5 code irrespective of the keyboard in use. Separate programming decisions are provided for the Keyboard Option and for the Communications Option. A machine with a CCITT #5 (ASCII) keyboard, which is set up to communicate in CCITT #2 (Baudot), will automatically convert keystrokes into the equivalent Baudot characters, and vice versa. (Because some ASCII characters do not have Baudot equivalents, they are ignored and not transmitted. See the User's Guide for details.)

CHAPTER 3. TERMINAL CONFIGURATION

CHAPTER 3. TERMINAL CONFIGURATION (Cont'd)

3.1 Keyboard Layout (Cont'd)

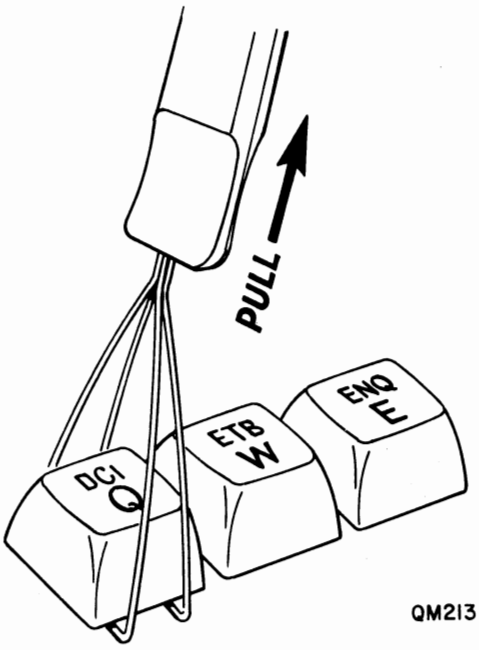


FIGURE 3-1. USING THE KEYCAP REMOVER

3.2 Status Report

The terminal character set can be determined by using the STAT (status) key and modified by using the PRG (program) key.

To check the present terminal configuration:

1. Place the unit OFF-LINE (green LINE lamp off). (Use the DIAL/LINE key to turn the machine on or off line.)

2. Print a STATUS report. While holding down the Control (CTRL) key, press the key marked "STAT" (Status).

Table 3- 2 shows the status report of unit set to the U.S. character set.

CHAPTER 3. TERMINAL CONFIGURATION (Cont'd)

3.2 Status Report (Cont'd)

TABLE 3-2. TELEPRINTER STATUS REPORT

Typing Options	PERMITTED OPTIONS
Print intensity = 8	0-15
LCV time = 15 deciseconds	1-127, [0=NO LCV]
Phone:1234567890:;1234	16 digits,;or=2 SEC
Lines/inch = 6	4, 6, 8
Half lines/LF = 2	2, 3, 4
Characters/inch = 12	10, 11, 12, 13, 15, 17, 20
Left margin = 0 characters	0, 7xCPI-16
Line length = 83 characters	15, 7xCPI-1
Printer Options	
On receipt of CR the printer will CR	CR, CR LF
On receipt of LF the printer will LF	LF, CR LF
On receipt of VT the printer will Slew 1"	NL, SLEW 1"
On receipt of FF the printer will Slew 2"	NL, SLEW 2", FF TO MARKER, FF TO TOP OF PAGE
Top margin = 3 lines	0-255
Page length = 60 lines	0-255
Keyboard Options	
New line key => CR LF	CR, LF, CR LF, CR LF DEL
Keyboard Format = ASCII	ASCII, Baudot
Character Set = USA	USA, UK, Finland, Norway/Denmark, Sweden, Germany, French Canada, France, Spain, Italy
Communication Options	
Terminal Connects through EIA	EIA, Internal Modem
Signal protocol is Full RS232	RD/TD, RS232, two wire neutral, 103, V.2
Baud rate = 300	45-1200
Serial data format is CCITT #2	2, 5
Parity is EVEN	EVEN, ODD, MARKING, SPACING
Data error detection is ON	ON, OFF
Local echo is ON	ON, OFF
Character initiated disconnect is NONE	NONE, EOT

CHAPTER 3. TERMINAL CONFIGURATION (Cont'd)

3.2 Status Report (Cont'd)

```
    CTS/SRTS means printer IS NOT ready. . . IS, IS NOT
  Data IS NOT transmitted at 6 cps . . . . . IS, IS NOT
  Terminal IS captured by incoming call. . . IS, IS NOT
    Terminal is captured on receipt of
      5 rings. . . . . 1-10
  Terminal IS NOT controlled by DC4/DC2. . . IS, IS NOT

Memory Options
  Memory transmission IS NOT blocked by
    CR LF. . . . . IS, IS NOT
  Data IS NOT transmitted from memory on
    receipt of DC1 . . . . . IS, IS NOT

Answerback Options
  Answerback IS NOT transmitted at connect
    time . . . . . IS, IS NOT
  Answerback = :Qwint NBRK: = :. . . . . Up to 20 characters
```

3.3 Programming Char Set, Modem Style, & Answerback

Operator selectable options and the answerback are changed by means of the PRG (Program) key. The answerback may need to be approved before it can be used in network communications.

1. Press CTRL PRG.

2. Answer "N" (no) to any options that are not to be changed; Answer "Y" (yes) and enter changes to any options that are to be changed.

3. If the answerback is to be changed, answer "STORE?" with a CTRL Z keystroke.

4. The machine will print the current answerback followed by "?"

5. Answer with an "N".

6. The machine will prompt for a new answerback and will automatically terminate entry after 20 characters. Use the format described on the following pages.

7. Machine will print "STORE?" Answer "yes" to update the options and/or the answerback.

CHAPTER 3. TERMINAL CONFIGURATION (Cont'd)

3.3 Programming Char Set, Modem Style, & Answerback (Cont'd)

NOTE: The terminal character set changes as soon as it is received during the prompting sequence. After this, all key locations on the keyboard take on their new definitions. For instance, if the keyboard layout is changed from U.S. to Germany ("QWERTY" to "QWERTZ"), the "Y" and "Z" keys will be interchanged. The operator must press the "Y" key in its new location when answering yes to the remaining questions in the prompting sequence. If the keyboard is changed from ASCII to Baudot, the Program/Status keys will also change locations. (See keyboard layouts in Appendix A.)

CHAPTER 4. PRIMARY EIA INTERFACE DESCRIPTION (Cont'd)

4	Request to Send	The Request to Send conductor is used to signal the data transmission equipment to condition itself for data transmission. The RTS conductor is ON when the terminal is in the LINE mode and OFF when the terminal is in the LOCAL mode.
5	Clear to Send	The Clear to Send conductor is used to signal the terminal that the data transmission equipment is capable of sending data. The CTS circuit can optionally be recognized or ignored as a condition for data transmission on the TD circuit. If the CTS circuit is optionally recognized, CTS must be ON for data transmission to occur on the TD circuit. If the CTS circuit is optionally ignored, the state of the CTS circuit does not affect transmission on the TD circuit. If the CTS circuit is recognized, its logical state can be inverted from its normal state by terminal option: Normal ON: +12V Inverted ON: -12V
6	Data Set Ready	The Data Set Ready conductor is used to signal the terminal that the communication equipment is connected to the communication channel. The Data Set Ready circuit must be ON for the DTR circuit to remain ON. Disconnect will occur if DSR goes OFF.

CHAPTER 4. PRIMARY EIA INTERFACE DESCRIPTION (Cont'd)

		If the terminal has been optioned for the capture mode, DSR going OFF will cause DTR to go off until DSR goes ON. The terminal will be removed from the LINE mode and placed in the LOCAL mode. When the terminal has been placed in the LOCAL mode, DTR will be turned on as a condition for capture by activity on the RI circuit or on the RD circuit. If the terminal has been optioned for the non-capture mode, DSR going OFF will cause DTR to go off until DSR goes ON. The terminal will remain in the LINE mode.
7	Signal Ground	The Signal Ground conductor establishes a common ground reference potential for all interchange circuits, except Protective Ground.
8	Received Line Signal Detector	The Received Line Signal Detector is used to signal the terminal that a carrier frequency has been placed on the communication link and that data can be or is being sent to the terminal. The RLSD circuit must be ON for the terminal to receive. A character for character check of RLSD is made for the ON state. A transition of RLSD from ON to OFF will inhibit received data, but will not disconnect the terminal. If the terminal is in the capture mode, a transition of RLSD from OFF to ON and presence of data on the RD circuit will cause the terminal to automatically be placed in the LINE mode from the LOCAL mode.

CHAPTER 4. PRIMARY EIA INTERFACE DESCRIPTION (Cont'd)

13	Secondary Clear to Send	Not used.
19	Secondary Request to Send	The Secondary Request to Send conductor is used as an optional data pacing circuit. When the data pacing option is enabled, an SRTS ON state indicates that data transfer can occur. When SRTS is in the OFF state, the terminal is not capable of receiving data transfer.
20	Data Terminal Ready	The Data Terminal Ready conductor is used to indicate the terminal's readiness to communicate on the communication link. The DTR circuit will be placed in the ON state when the terminal is placed in the LINE mode. If the terminal is in the capture mode, a transition of OFF to ON of DTR will occur upon a transition of RI from OFF to ON when connected to an external modem, or upon the presence of data on the RD circuit, and DSR or RLSD ON when connected back-to-back with another EIA port. DTR will be prevented from turning ON if Low Paper or Paper Out states exist in the terminal. If DTR is ON, and either Low Paper or Paper Out occurs, DTR will be turned OFF, causing a disconnect, if the terminal is ON-LINE.
22	Ring Indicator	The Ring Indicator is used to signal the terminal that the communication link is receiving a ringing signal. If the terminal is in the capture mode, it will respond by turning DTR ON. The terminal has a programmable option to respond to RI after N rings.

CHAPTER 5. PAPER SIZES

5.1 Paper Supply Shaft

Teleprinters are supplied with 1 roll of 8-7/16 inch (214 mm) wide paper, so they can be set up and operated immediately. The teleprinters are capable of accepting three different paper roll widths:

1. 8-7/16 inches (214 mm)
2. 210 mm
3. 6 inches (152 mm)

Figure 4-1 shows the corresponding pairs of grooves in the paper supply shaft that will accommodate paper rolls of these widths.

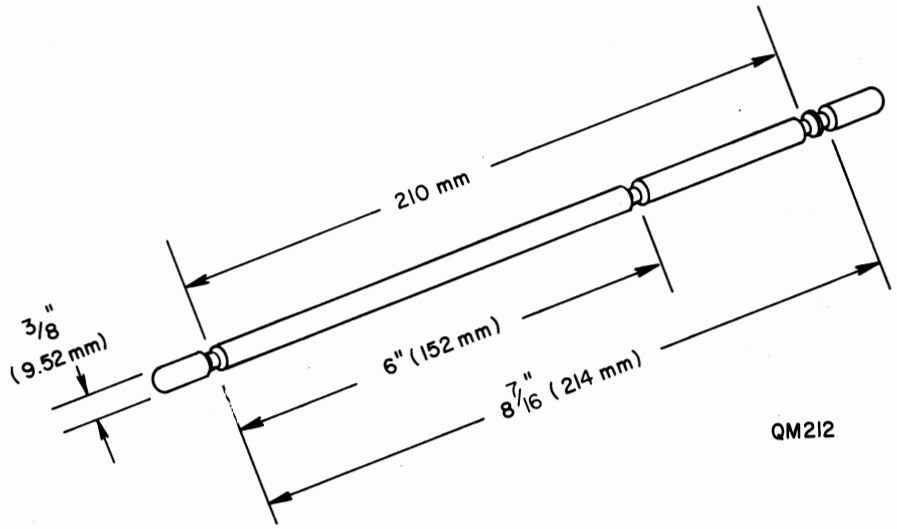


FIGURE 5-1. PAPER SUPPLY SHAFT

5.2 Paper Roll Brackets

The position of the right hand paper roll bracket is changed to accommodate paper rolls of differing widths. (The left hand bracket stays fixed, since its location determines the location of the left margin on the printed page.) The right hand paper roll bracket is held in place with a single 7 mm cap screw. Figure 5-2 shows where to position the cap screw and bracket for paper rolls of differing widths.

CHAPTER 5. PAPER SIZES (Cont'd)

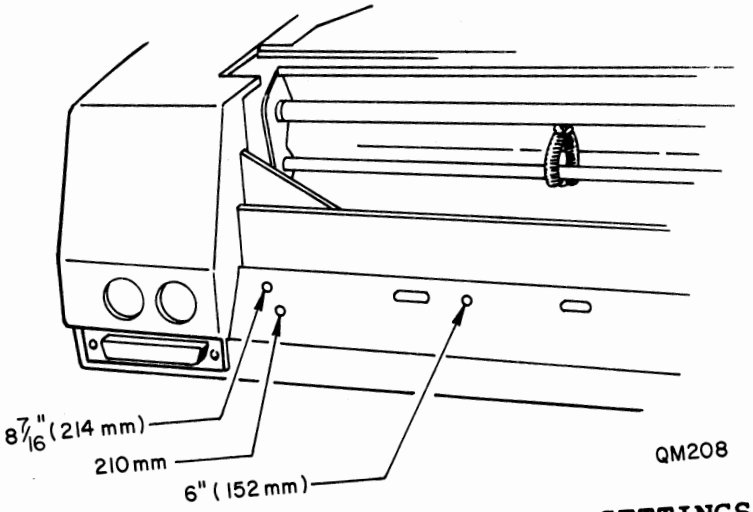


FIGURE 5-2. PAPER ROLL WIDTH SETTINGS

CHAPTER 6. ADJUSTING THE ACOUSTIC CUPS

MSR-745 terminals are normally supplied with the Model 301 Acoustic Coupler set to accept telephone handsets in the country to which they are shipped.

In case it is necessary to change this setting, the rubber cups on the acoustic adapter are adjustable. Rotating either of the cups changes the angle of that cup with respect to the metal base of the adapter. (See Figure 6-1.)

CAUTION

Rotating the Acoustic Cups also rotates the wires that are attached to transducers in the bottom of the cups.

1. Do not rotate the cups more than one half turn (180 degrees) in either direction.

2. Do not allow the cups to become detached from the base during rotation.

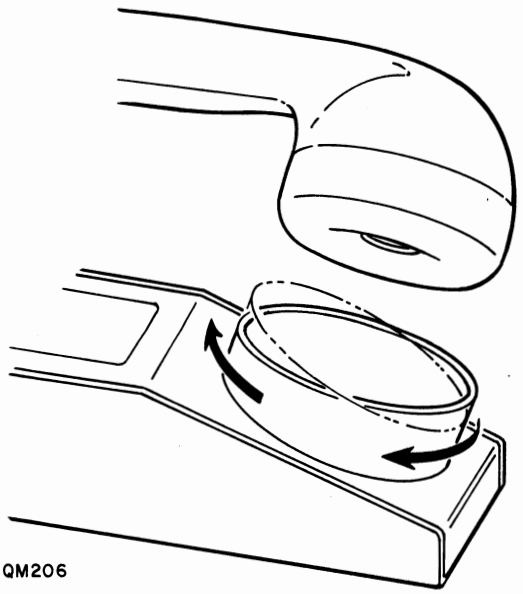


FIGURE 6-1. ADJUSTING THE ACOUSTIC CUPS

APPENDIX A. KEYBOARD LAYOUTS

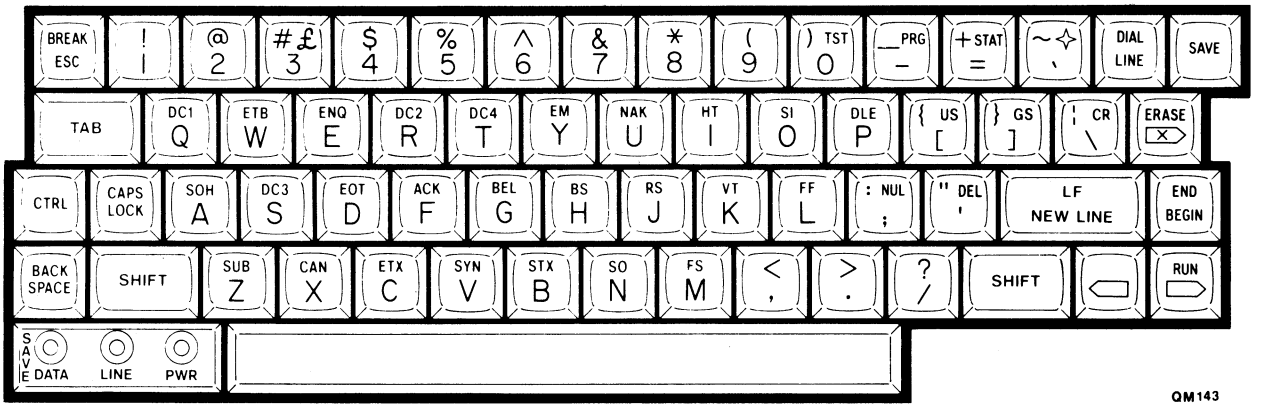


FIGURE A-1. CCITT #5, UNITED STATES

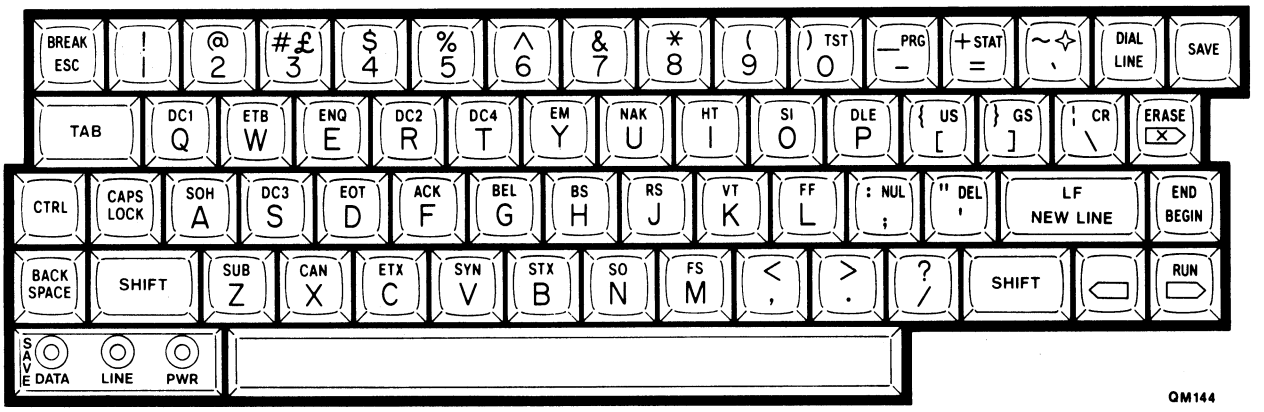


FIGURE A-2. CCITT #5, UNITED KINGDOM

FIGURE A-3. CCITT #5, FINLAND

APPENDIX A. KEYBOARD LAYOUTS (Cont'd)

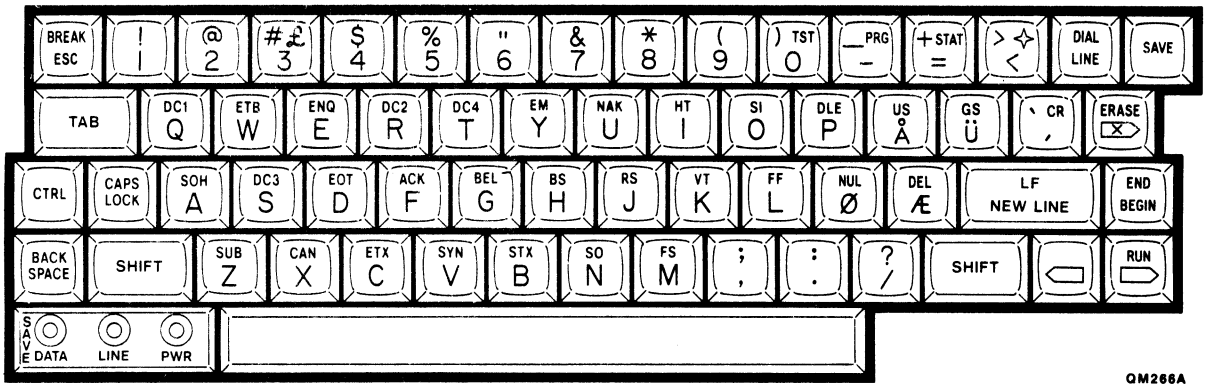


FIGURE A-4. CCITT #5, NORWAY

FIGURE A-5. CCITT #5, DENMARK

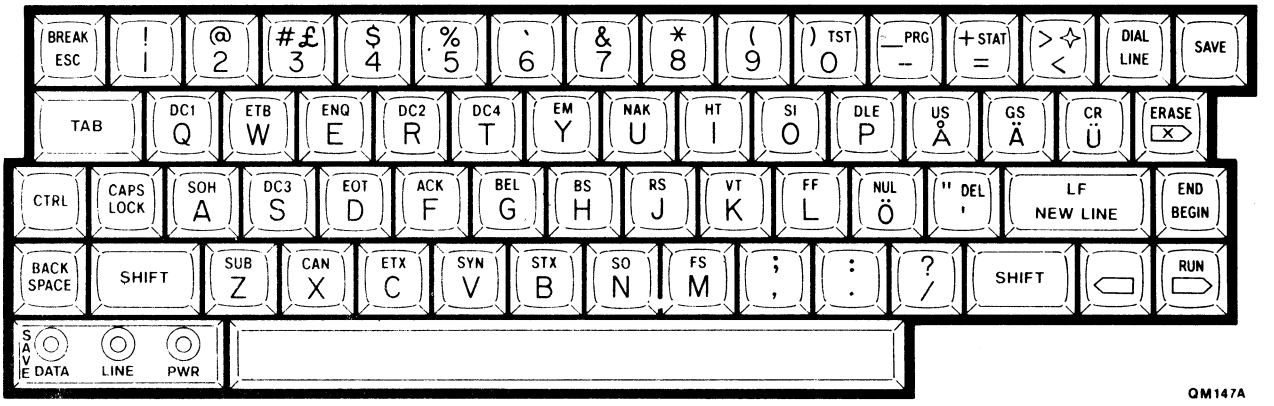


FIGURE A-6. CCITT #5, SWEDEN

APPENDIX A. KEYBOARD LAYOUTS (Cont'd)

FIGURE A-7. CCITT #5, GERMANY

FIGURE A-8. CCITT #5, FRENCH CANADA

FIGURE A-9. CCITT #5, FRANCE

APPENDIX A. KEYBOARD LAYOUTS (Cont'd)

FIGURE A-10. CCITT #5, SPAIN

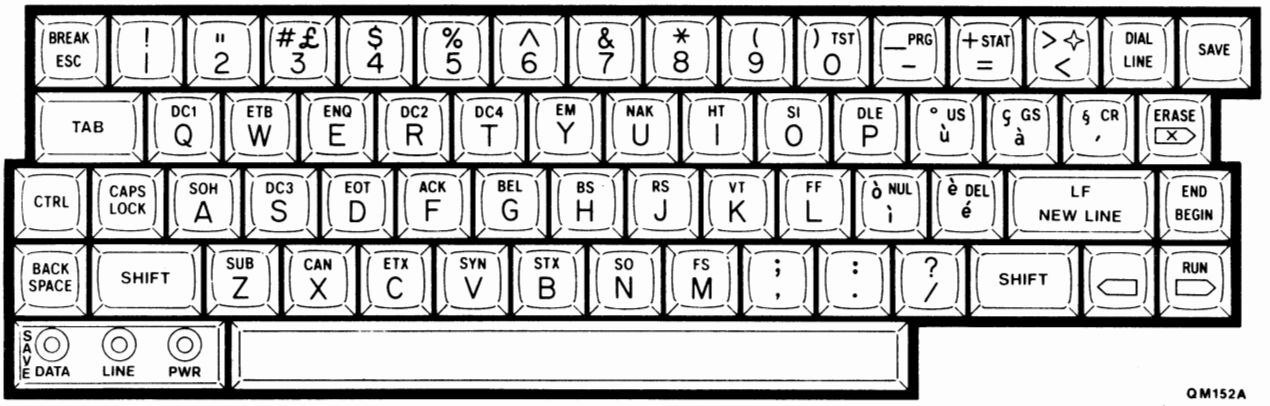
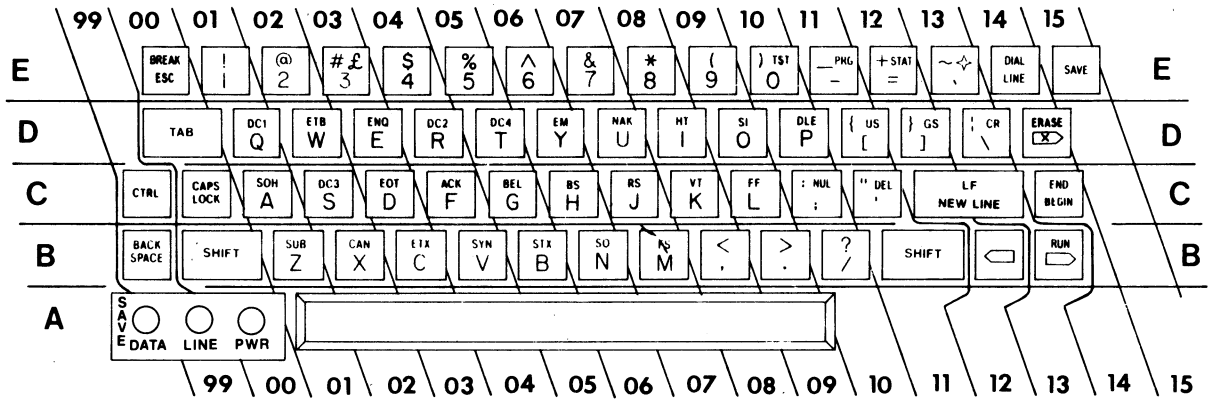


FIGURE A-11. CCITT #5, ITALY

FIGURE A-12. UNIVERSAL CCITT #2 (BAUDOT)

CCITT #5 (ASCII)

INTERNATIONAL KEYCAP LOCATIONS



KEYTOP LEGENDS			KEYCAP LOCATIONS FOR VARIOUS COUNTRIES (SEE CHART ABOVE)								
LOWER CASE *	UPPER CASE (SHIFT)	CONTROL	NORWAY	DENMARK	FINLAND	SWEDEN	GERMANY	FRANCE	ITALY	SPAIN	FRENCH CANADA
'	;	(NONE)	B08	B08	B08	B08	B08		B08		B08
.	:	(NONE)	B09	B09	B09	B09	B09		B09		B09
<	>	✧	E13	E13	E13	E13	E13		E13		E13
ø	Ø	NUL	C10	C11							
å	Å	US	D11	D11	D11	D11					
æ	Æ	DEL	C11	C10							
ü	Ü	CR			D13	D13	D13				
6	^	(NONE)				E06					
6	"	(NONE)	E06	E06	E06						
ä	Ä	GS			D12	D12	D12				
ö	Ö	NUL			C10	C10	C10				
é	'	DEL			C11						
ß	^	US					D11				
§	'	DEL					C11				
2	"	(NONE)					E02	E02	E02	E02	E02
é	è	DEL						C11	C11		C11
ù	°	US						D11	D11		
à	ç	GS						D12	D12		D12
^	§	✧						E13			
ñ	Ñ	DEL								C11	
ç	°	US								D11	
ì	¿	GS								D12	
'	§	CR							D13	D13	
^	ò	NUL							C10		
ê	â	NUL									C10
^	ô	US									D11
ù	û	CR									D13
6	'	(NONE)									E06
'	!	CR						D13			
y	Y	EM					B01				
a	A	SOH						D01			
z	Z	SUB					D06	D02			
q	Q	DC1						C01			
w	W	ETB						B01			
ü	Ü	GS	D12	D12							
'	^	CR	D13	D13							

*LOWER CASE CHARACTERS WHICH MATCH UPPER CASE WILL NOT BE SHOWN ON KEYCAP

QM225B

APPENDIX B. TERMINAL STATUS REPORTS

```
STATUS

Typing Options
   Print intensity = 8.
   LCV time = 15 deciseconds.
   Phone:.
   Lines/inch = 6.
   Half lines/LF = 2.
   Characters/inch = 12.
      Left margin = 0 characters.
      Line length = 80 characters.

Printer Options
   On receipt of CR the printer will CR.
   On receipt of LF the printer will LF.
   On receipt of VT the printer will SLEW 1".
   On receipt of FF the printer will SLEW 2".

Keyboard Options
   Keyboard format = CCITT NO.5.
   Character set = UNITED KINGDOM (QWERTY) .
   New line key => CR LF.

Communications Options
   Terminal connects through internal modem.
      Signal protocol is CCITT V.21.
   Baud rate = 300.
   Serial data format is CCITT NO.5.
   Transmit parity is EVEN.
   Data error detection is OFF.
   Local echo is OFF.
   Data IS NOT paced with DC3/DC1.
   Data IS NOT paced with BREAK.
   Data IS NOT transmitted at 6 CPS.
   Character-initiated disconnect = EOT.
   Terminal IS captured by incoming call.
      Line captured upon receipt of 4 rings.
   Printer IS NOT controlled by DC2/DC4.

Memory Options
   Memory transmission IS NOT blocked by CR LF.
   Data IS NOT transmitted from memory on receipt of DC1.

Answerback Options

   Answerback = :QWINT SYS. NTHBK      :.
```

FIGURE B-1. SWITCHED NETWORK TIMESHARE

APPENDIX B. TERMINAL STATUS REPORTS (Cont'd)

```
STATUS

Typing Options
   Print intensity = 8.
   LCV time = 15 deciseconds.
   Phone:.
   Lines/inch = 6.
   Half lines/LF = 2.
   Characters/inch = 10.
      Left margin = 0 characters.
      Line length = 69 characters.

Printer Options
   On receipt of CR the printer will CR.
   On receipt of LF the printer will LF.
   On receipt of VT the printer will SLEW 1".
   On receipt of FF the printer will SLEW 2".

Keyboard Options
   Keyboard format = CCITT NO.5.
   Character set = UNITED KINGDOM (QWERTY) .
   New line key => CR LF.

Communications Options
   Terminal connects through internal modem.
      Signal protocol is CCITT V.21.
   Baud rate = 300.
   Serial data format is CCITT NO.5.
   Transmit parity is EVEN.
   Data error detection is OFF.
   Local echo is ON.
   Data IS NOT paced with DC3/DC1.
   Data IS NOT paced with BREAK.
   Data IS NOT transmitted at 6 CPS.
   Character-initiated disconnect = EOT.
   Terminal IS captured by incoming call.
      Line captured upon receipt of 4 rings.
   Printer IS NOT controlled by DC2/DC4.

Memory Options
   Memory transmission IS NOT blocked by CR LF.
   Data IS NOT transmitted from memory on receipt of DC1.

AnswerBack Options

   Answerback = :QWINT SYS. NTHBK     :.
```

FIGURE B-2. STORE/FORWARD SWITCHED NETWORK

APPENDIX B. TERMINAL STATUS REPORTS (Cont'd)

```
STATUS

Typing Options
   Print intensity = 8.
   LCV time = 15 deciseconds.
   Phone:.
   Lines/inch = 6.
   Half lines/LF = 2.
   Characters/inch = 10.
      Left margin = 0 characters.
      Line length = 69 characters.

Printer Options
   On receipt of CR the printer will CR.
   On receipt of LF the printer will LF.
   On receipt of VT the printer will SLEW 1".
   On receipt of FF the printer will SLEW 2".

Keyboard Options
   Keyboard format = CCITT NO.5.
   Character set = UNITED KINGDOM (QWERTY) .
   New line key => CR LF.

Communications Options
   Terminal connects through internal modem.
      Signal protocol is CCITT V.21.
   Baud rate = 110.
   Serial data format is CCITT NO.5.
   Transmit parity is EVEN.
   Data error detection is OFF.
   Local echo is ON.
   Data IS NOT paced with DC3/DC1.
   Data IS NOT paced with BREAK.
   Data IS transmitted at 6 CPS.
   Character-initiated disconnect = NONE.
   Terminal IS captured by incoming call.
      Line captured upon receipt of 4 rings.
   Printer IS NOT controlled by DC2/DC4.

Memory Options
   Memory transmission IS NOT blocked by CR LF.
   Data IS NOT transmitted from memory on receipt of DC1.

Answerback Options

   Answerback = :QWINT SYS. NTHBK      :.
```

FIGURE B-3. SWITCHED NETWORK/TELEX @ 110 BAUD

APPENDIX B. TERMINAL STATUS REPORTS (Cont'd)

```
STATUS

Typing Options
   Print intensity = 8.
   LCV time = 15 deciseconds.
   Phone:.
   Lines/inch = 6.
   Half lines/LF = 2.
   Characters/inch = 10.
      Left margin = 0 characters.
      Line length = 69 characters.

Printer Options
   On receipt of CR the printer will CR.
   On receipt of LF the printer will LF.
   On receipt of VT the printer will SLEW 1".
   On receipt of FF the printer will SLEW 2".

Keyboard Options
   Keyboard format = CCITT NO.5.
   Character set = UNITED KINGDOM (QWERTY) .
   New line key => CR LF.

Communications Options
   Terminal connects through internal modem.
      Signal protocol is CCITT V.21.
   Baud rate = 300.
   Serial data format is CCITT NO.5.
   Transmit parity is EVEN.
   Data error detection is OFF.
   Local echo is ON.
   Data IS NOT paced with DC3/DC1.
   Data IS NOT paced with BREAK.
   Data IS transmitted at 6 CPS.
   Character-initiated disconnect = NONE.
   Terminal IS captured by incoming call.
      Line captured upon receipt of 4 rings.
   Printer IS NOT controlled by DC2/DC4.

Memory Options
   Memory transmission IS NOT blocked by CR LF.
   Data IS NOT transmitted from memory on receipt of DC1.

Answerback Options

   Answerback = :QWINT SYS. NTHBK     :.
```

FIGURE B-4. SWITCHED NETWORK/TELEX @ 300 BAUD

APPENDIX B. TERMINAL STATUS REPORTS (Cont'd)

```
STATUS

Typing Options
   Print intensity = 8.
   LCV time = 15 deciseconds.
   Phone:.
   Lines/inch = 6.
   Half lines/LF = 2.
   Characters/inch = 12.
      Left margin = 0 characters.
      Line length = 83 characters.

Printer Options
   On receipt of CR the printer will CR.
   On receipt of LF the printer will LF.
   On receipt of VT the printer will SLEW 1".
   On receipt of FF the printer will SLEW 2".

Keyboard Options
   Keyboard format = CCITT NO.5.
   Character set = UNITED KINGDOM (QWERTY) .
   New line key => CR LF.

Communications Options
   Terminal connects through V.24.
      Signal protocol is Full V.24.
   Baud rate = 1200.
   Serial data format is CCITT NO.5.
   Transmit parity is EVEN.
   Data error detection is OFF.
   Local echo is OFF.
   Data IS NOT paced with DC3/DC1.
   Data IS paced with CTS/SRTS.
      CTS/SRTS IS NOT INVERTED.
   Data IS NOT paced with BREAK.
   Data IS NOT transmitted at 6 CPS.
   Character-initiated disconnect = NONE.
   Terminal IS NOT captured by incoming call.
   Printer IS NOT controlled by DC2/DC4.

Memory Options
   Memory transmission IS NOT blocked by CR LF.
   Data IS NOT transmitted from memory on receipt of DC1.

Answerback Options

   Answerback = :QWINT SYS. NTHBK     :.
```

FIGURE B-5. DIRECT @ 1200 BAUD

A Little, Smarter Way

To Communicate...