

1374 Control Unit

Offline Utility Operations Manual

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Dieses Gerät wurde sowohl einzeln als auch in einer Einlage, die einen normalen Anwendungsfall nachbildet, auf die Einhaltung der Funkentstörbestimmung geprüft. Es ist jedoch möglich daß die Funkentstörbestimmung unter ungünstigen Umständen bei anderen Gerätekombinationen nicht eingehalten werden. Für die Einhaltung der Funkentstörbestimmung einer Anlage, in der dieses Gerät betrieben wird, ist der Betreiber verantwortlich.

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WARNING

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 Class A computing devices pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference. Operation of this equipment in a residential area is required to take whatever measures may be required to correct the interference.

COMPLIANCE STATEMENTS

CERTIFICATES

CERTIFICATE BY MANUFACTURER/IMPORTER

This is to certify that the 1374-1L Model 1, 1374-1R Model 1, 1374-2R Model 1, 1374-3R Model 1, 1374-71R Models 1 and 2, 1374-72R Models 1 and 2 is/are shielded against radio interference in accordance with the provisions of Vfg 1046/1984.

The German Postal Services have been advised that this device is being put on the market and that they have been given the right to inspect the series for compliance with the regulations.

BESCHEINIGUNG DES HERSTELLERS/IMPORTEURS

Hiermit wird bescheinigt, daß die 1374-1L Model 1, 1374-1R Model 1, 1374-2R Model 1, 1374-3R Model 1, 1374-71R Models 1 and 2, 1374-72R Models 1 and 2 (Gerät, Typ, Bezeichnung) in übereinstimmt mit den Bestimmungen der Vfg 1046/1984 und funkentstört ist/sind.(Amtsblattverfügung)

Der Deutschen Bundespost wurde das Inverkehrbringen dieses Gerätes angezeigt und die Berechtigung zur Überprüfung der Serie auf Einhaltung der Bestimmung eingeräumt.

1374 USER MANUAL PUBLICATIONS

1374 USER MANUALS

The 1374 user manuals needed to install, configure, and operate all the control units in Memorex Telex's 1374 product line are divided into two groups: basic publications and feature-specific publications.

BASIC PUBLICATIONS

The basic publications are the *1374 Product Family Guide*, *1374 Configuration Guide*, and *1374 Offline Utility Operations Manual*. These manuals contain information that applies to all the 1374 control unit models, regardless of their options.

FEATURE-SPECIFIC PUBLICATIONS

These publications are the *1374 ACS Operations Manual*, *1374 Central Site Customization Guide*, *1374 LAN Operations Manual*, and *1374 X.25 Operations Manual*. Each manual discusses a major 1374 optional function, such as attachment to a Token-Ring Local Area Network (LAN) or X.25 network operations. The control unit's functions determine which manuals you will need.

Use the chart below to direct you to the appropriate 1374 manuals.

If You Want To:	Use This Manual:
Install control unit and/or optional features.	<i>1374 Product Family Guide</i>
Configure control unit via LCP.	<i>1374 Configuration Guide</i>
Customize keyboards and devices via ASCII Definition Utility (ADU), System Definition Utility (SDU), and use DOS commands.	<i>1374 Offline Utility Operations Manual</i>
Use the ACS feature to attach terminals and printers to the control unit.	<i>1374 ACS Operations Manual</i>
Create system diskettes on an IBM-compatible PC/AT at a central site.	<i>1374 Central Site Customization Guide</i>
Attach control units to a Token-Ring LAN.	<i>1374 LAN Operations Manual</i>
Access X.25 packet-switched networks.	<i>1374 X.25 Operations Manual</i>

PREFACE

MANUAL CONTENTS

This manual provides instructions on using the utility commands to modify Asynchronous/ASCII (A/A) device profiles, host interface tables, keyboard tables, and A/A emulation styles, as well as to perform operating tasks.

This manual is divided into the following chapters:

Chapter 1. Operations Reference – This chapter describes online help, utility selection, screen format, function keys, editing keys, and the utility loading procedure.

Chapter 2. DOS Commands – This chapter describes Memorex Telex's DOS commands.

Chapter 3. ASCII Definition Utility – This chapter describes how to modify and create A/A terminal and printer profiles.

Chapter 4. System Definition Utility – This chapter describes how to select host and keyboard (system) languages, customize EBCDIC and ASCII host interface tables, customize keyboard tables, and customize A/A emulation styles.

Appendixes – The appendixes contain supplemental information such as lists of related publications, check error codes, error messages, decimal-hexadecimal conversion table, language support, customized keyboards, and a glossary.

INTENDED AUDIENCE

This manual is for the data communications professional responsible for customizing A/A devices, host interface tables, keyboard tables, and A/A emulation styles. Since these definitions are used when the 1374 Control Unit is configured, they must also be made available to the person who configures the control unit's communication parameters. In addition, terminal and printer operators should be made aware of the modified A/A devices, keyboard tables, and emulation styles defined with these utilities.

PREFACE

MANUAL CONVENTIONS

This manual uses the following conventions:

- User responses are in all UPPERCASE; however, the response may be upper- or lowercase, unless otherwise noted.
- Messages and prompts that appear on the terminal screen are enclosed in double quotation marks (" ").
- Coax terminals described in the manual are Control Unit Terminals (CUT), unless otherwise noted.

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Chapter 1

Operations Reference

OPERATIONS REFERENCE

OFFLINE UTILITY PACKAGE

The Offline Utilities can only be run from a coax terminal. The following manual and diskettes are required for operation. All diskettes must have the same release level.

- *1374 Offline Utility Operations Manual*
- Utility diskette containing the following utility programs:
 - Keyboard Select
 - Memorex Telex's DOS Commands
 - ASCII Definition Utility (ADU)
 - System Definition Utility (SDU)
 - Link Definition Utility (LDU)
- System diskette containing configuration files that may be modified with ADU and SDU
- Standard Language diskette containing data files

If you select a customized language, an RPQ (Request for Price Quote) Language diskette is also required.

ONLINE HELP

The ADU, SDU, and LDU utilities contain useful Online Help screens accessed by pressing PF1. A typical Help screen is shown Figure 1-1.

While using Online Help, the following keys are operable only if they appear on the lower portion of the screen:

- PF1 provides general help
- PF3 exits Online Help
- PF8 moves forward to the next page

OPERATIONS REFERENCE

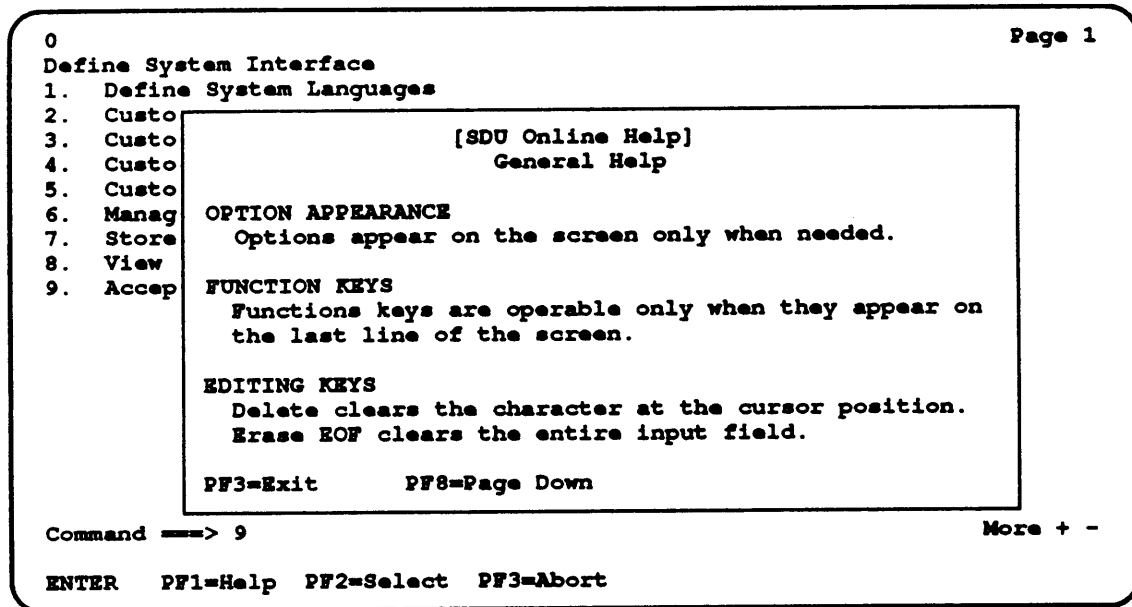


Figure 1-1. Sample SDU Help Screen

SELECT A UTILITY

From Main Offline Utilities menu, select a utility in one of three ways:

- Type in the name of the utility on the Input Line.
- Type the letter or number next to the utility on the Input Line.
- Use the arrow keys to highlight the desired utility.

SELECT SDU OPTIONS

After selecting SDU from the Main Offline Utilities menu, select one of the SDU options in one of two ways:

- Type in the number next to the option.
- Type in only enough of the option name to be unique so the program can identify one of the options available from the current menu. As long as the first few letters are unique, the program will make the correct inference. For example, for options "Modify ASCII Host Interface Table" and "Modify EBCDIC Host Interface Table" you would have to type MODIFY A or MODIFY E for the program to select the correct option.

For simplicity, procedures in the remainder of this manual will only say to "Type the number ..."

OPTION APPEARANCE

Menu options will appear only if needed. For example, the first time you use SDU, the Define System Languages options are: Add Language and Accept. However, after selecting two operating system languages, this screen displays the option Delete Language because now there is a second language to delete and Indicate Primary Language. The menu does not display the Add Language option if a second language has already been selected.

SDU SCREEN FORMAT

Figure 1-2 illustrates the SDU menu structure. Future software releases are scheduled to incorporate these menu conventions in the remaining offline utilities.

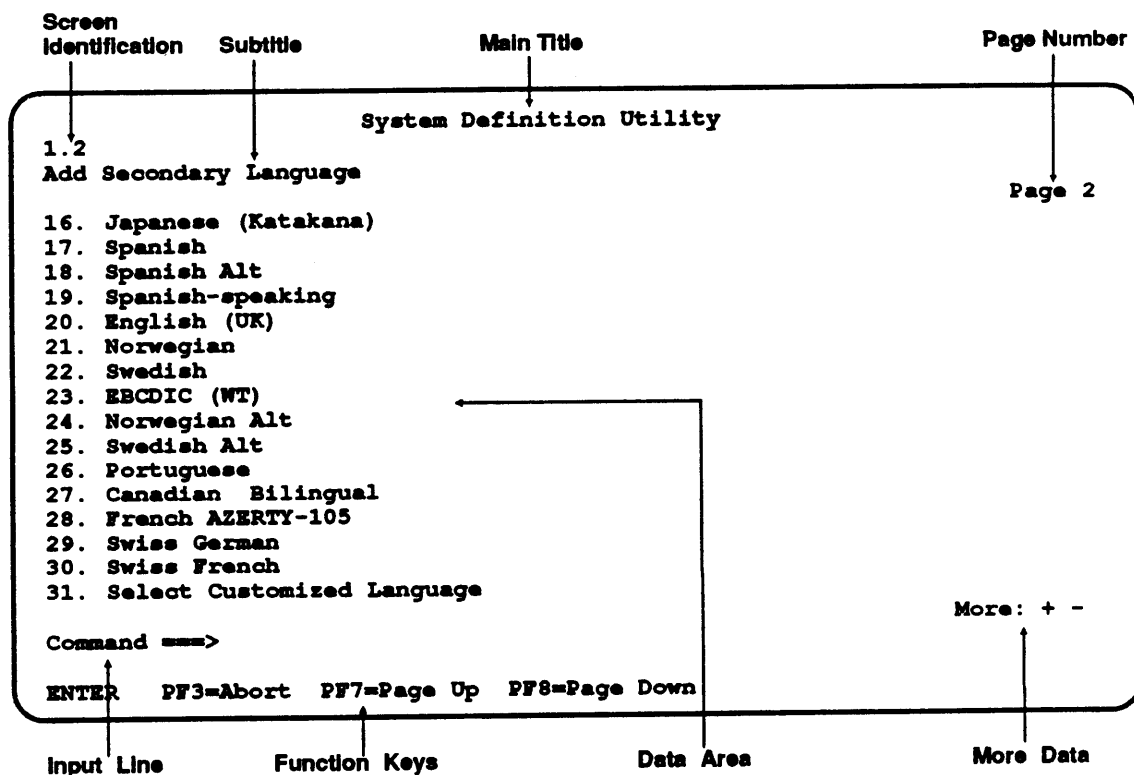


Figure 1-2. SDU Screen Format

A typical SDU menu consists of four areas or windows: header, body, command, and action.

OPERATIONS REFERENCE

WINDOW CONTENTS

- Header window
 - **Main Title** – indicates the name of the current utility program.
 - **Screen Identification** – indicates the options the user selected to reach the current screen.
 - **Subtitle** – provides directions and/or information concerning the current menu operation.
- Body window
 - **Information Title (Optional)** – provides additional information for the menu.
 - **Page Number** – indicates what page you are on if the selections cannot be displayed on a single screen.
 - **Data Area** – contains the following types of data: a list of valid options for the current menu, keyboard panel, table, or information.
- Command window
 - **Input Line** – use the Input Line (Command ==>) to enter commands. A number appearing in the input line identifies the default setting. If the default selection is acceptable, just press Enter. Otherwise, type the desired selection and press Enter.
 - **Instruction Line (Optional)** – indicates the valid input operation for the current menu.
 - **More + -** – data line indicates all of the available menu selections cannot be displayed on a single screen. Use PF7 and PF8 to page forward and backward.
- Action window
 - **Function Key Line** – lists valid keys for the current menu followed by a brief description of their purpose.

ADU FUNCTION KEYS

While using ADU, the following keys are operable only if they appear on the Function Key Line:

- A selection followed by Enter processes the command or saves the definition
- PF1 exits ADU without saving the profile
- PF3 exits ADU and saves profile
- PF6 moves back one keystroke name on the 3270 Special Keystroke menu

- PF7 pages back one screen
- PF8 exits the 3270 Special Keystroke menu.

SDU FUNCTION KEYS

While using SDU, the following keys are operable only if they appear on the Function Key Line:

- A selection followed by Enter processes the command or saves the definition
- PF1 calls up an online Help screen
- PF3 exits the current menu without processing or saving the changes
- PF6 toggles to a corresponding screen or toggles between shift level fields on the keyboard mapping screen
- PF7 returns to the previous page
- PF8 moves forward to the next page

SDU EDITING KEYS

While using SDU, the following keys allow you to edit the Data Area and Input Line:

- Alphabetic and number keys enter selections
- Delete clears the character at the cursor position
- Erase EOF clears the entire input field
- Home moves the cursor to the beginning of a field
- Left Arrow and Right Arrow move the cursor right and left within a field
- PF2 places character on keyboard mapping screen
- Tab and Back Tab move the cursor to the right and left within a field
- Up Arrow and Down Arrow move the cursor to a field directly above or directly below the current field

OPERATIONS REFERENCE

ERROR MESSAGES

Refer to Appendixes B and C for a list of error messages and corrective action.

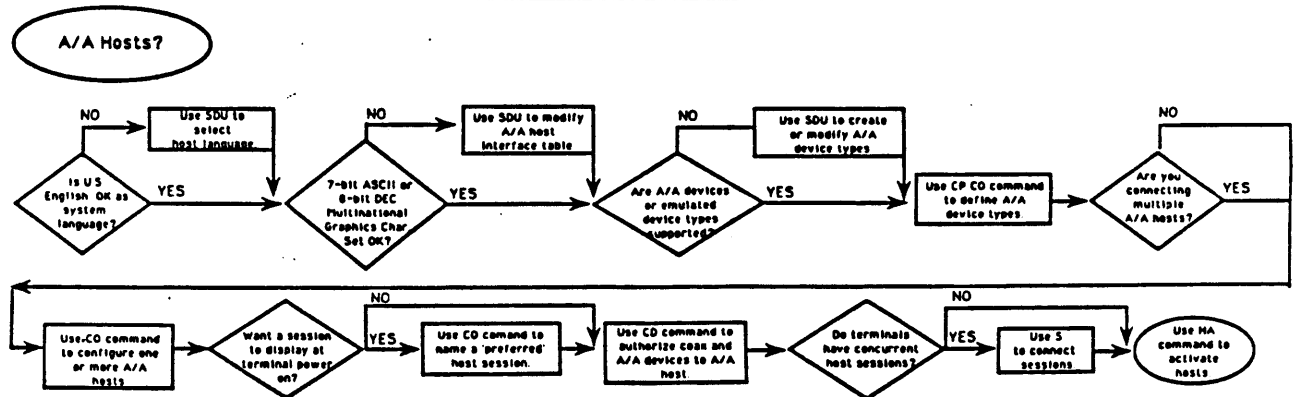
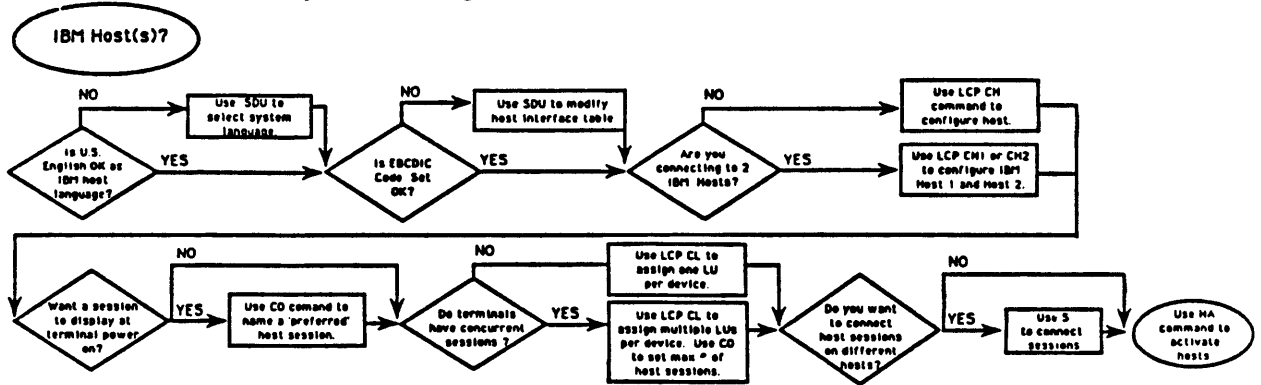
FLOWCHARTS

The flowcharts on the following page introduce you to the basic functions of the Offline Utilities and Local Control Point (LCP). Understanding the Offline Utilities and LCP prior to configuring the control unit will simplify the configuration process. The two flowcharts serve as a guide to the overall process; it is not intended to thoroughly describe the steps required to customize devices, define A/A emulation styles, or configure the control unit. Refer to the *1374 Configuration Guide* and to this manual for specifics.

Refer to the list below when determining which A/A devices are attached to the control unit. If you want to attach one of the listed A/A devices *without modification*, you do not need to use the Offline Utility program but can proceed directly to LCP. However, if you need to modify or attach other A/A devices, you need to use the Offline Utilities.

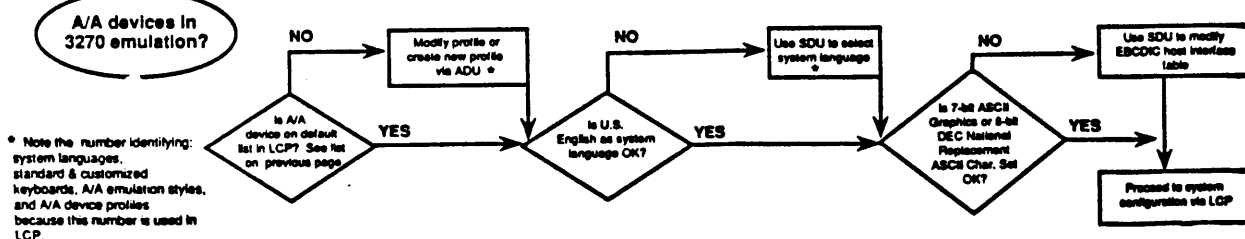
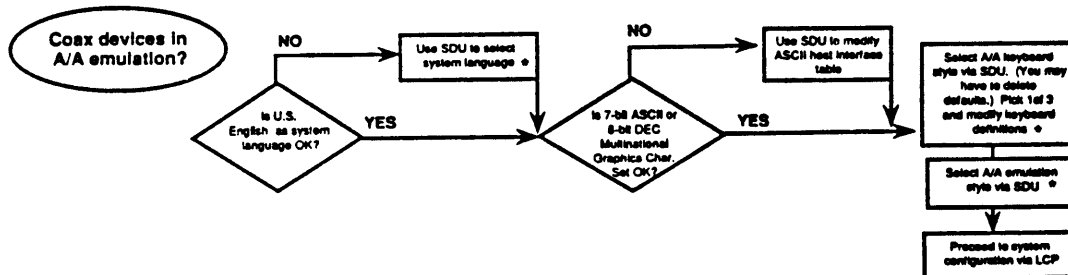
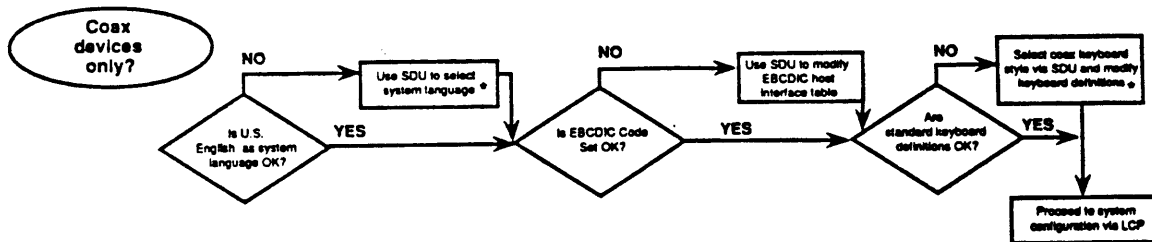
- DEC VT100
- DEC VT220
- DEC VT240
- Epson FX80
- Epson FX100
- IBM 3101
- IBM 3161
- IBM 3164
- IBM-compatible PC
- Lear Siegler ADM 3A
- NEC 3515
- Okidata 82A/92A
- Okidata 83/93
- TeleVideo 912C

What host connections are you establishing?



OPERATIONS REFERENCE

What devices are you attaching to the controller?



LOAD OFFLINE UTILITIES

STEP 1: Insert the Utility diskette into the 1374 disk drive and power on the control unit. If the control unit is already on, IML (Initial Microprogram Load) the control unit to load the Utility program.

Performing an IML overrides any other 1374 system functions and cancels all terminal sessions.

After the control unit completes the IML procedure, "4_? UTILITY" appears in the lower left corner of the operator information area of all attached terminals.

STEP 2: Press Sys Req on the terminal being used to display the Main Offline Utilities menu. Access Sys Req by holding down Alt and pressing Attn. After the key is pressed, "4_? UTILITY" appears in the lower left corner of the operator information area, then the Main Offline Utilities menu appears.

```
====>
Move cursor to command line or type command; then press the ENTER key.
```

Master Menu

K	K	(Keyboard select)
1	COPY	(File copy)
2	DELETE	(File delete)
3	DIR	(Directory display)
4	RENAME	(File rename)
5	ADU	
6	CONVERT	
7	COPYPAM	
8	FORMAT	
9	LDU	
10	SDU	
11	TSTPTRN	
12	UPDATE	

Figure 1-3. Main Offline Utilities Menu

STEP 3: Select the desired utility and press Enter.

Except for Convert, ADU, SDU, or LDU, the program assumes the correct diskette has been placed in the disk drive and executes the utility after Enter has been pressed.

OPERATIONS REFERENCE

SELECTIONS DEFINED

Except for the first five commands, the position of the remaining commands may vary.

K (Keyboard Select) – Provides a keyboard language that is in effect only while using the offline utilities. Chapter 1, "Operations Reference," explains this utility in detail.

Copy – Copies a file to the same or another diskette. Chapter 2, "DOS Commands," explains this command in detail.

Delete – Removes a file from a diskette. Chapter 2, "DOS Commands," explains this command in detail.

DIR (Directory) – Displays a listing of all files on a diskette. Chapter 2, "DOS Commands," explains this command in detail.

Rename – Changes the name of a file. Chapter 2, "DOS Commands," explains this command in detail.

ADU – Defines and modifies asynchronous/ASCII terminal and printer profiles. Chapter 3, "ASCII Definition Utility," explains this utility in detail.

Convert – Upgrades LCP configurations from a lower software release level to a higher software release level on a 1374 system diskette. Chapter 2, "DOS Commands," explains this command in detail.

COPYPAM – Copies the Printer Authorization Matrix (PAM) from one system diskette to another. Chapter 2, "DOS Commands," explains this command in detail.

Format – Prepares a diskette for 1374 system use. Chapter 2, "DOS Commands," explains this command in detail.

LDU – Configure the control unit for SNA X.25 operation. The X.25 Operations Manual explains this utility in detail.

SDU – Defines host and keyboard languages, customizes host input/output translation tables, customizes keyboards, and defines A/A emulation styles. Chapter 4, "System Definition Utility," explains this utility in detail.

TSTPTRN (Test Pattern) – Provides a screen test and a method of checking activity on the coaxial cable. Chapter 2, "DOS Commands," explains this command in detail.

Update – Copies LCP configurations and Offline definitions (ADU and SDU) within the same release level on a 1374 system diskette. Chapter 2, "DOS Commands," explains this command in detail.

UTILITY ERROR MESSAGES

Refer to Appendixes B and C for a list of error messages and corrective action.

K

The K (Keyboard Selection) utility offers language choices for configuring a keyboard while using the offline utility programs. The keyboard selection affects only utility programs and is completely independent of the keyboard layouts selected or defined with SDU.

To select a keyboard language for performing utilities, select K (in one of the three ways described earlier) and press Enter for the Keyboard Selection menu to appear.

```
====>
Move cursor to command line or type command; then press the ENTER key.
-----
Keyboard Menu
1.  QWERTY
2.  AZERTY
3.  Japanese English
4.  Japanese Katakana
5.  Belgian
6.  Austrian
```

Figure 1-4. Keyboard Selection Menu

Move the cursor to the desired keyboard language and press Enter. The selected keyboard language immediately takes effect and remains in effect even after the Utility diskette is reloaded.

K Error Messages

Refer to Appendixes B and C for a list of error messages and corrective action.

