

1374 Control Unit

Central Site Customization Guide

1374000001M7

F/N 700671

P/N 700671-001

ISSUE/REVISION SCHEDULE

Comments	Rev. No.	Date
Initial Release	700671-001	7/1/89

IBM is a registered trademark of IBM Corporation.

©Copyright 1989 by Memorex Telex Corporation

COMPLIANCE STATEMENTS (VDE AND DEUTSCHES BUNDESPOST)

This equipment has been tested concerning compliance with the relevant RFI protection requirements, both individually and on a system level (to simulate normal operation conditions). However, it is possible that these RFI requirements are not met under certain unfavorable conditions in other installations. It is the user who is responsible for compliance of his particular installation.

Compliance with applicable regulations depends on the use of shielded cables. It is the user who is responsible for procuring the appropriate cables.

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.

Einhaltung mit betreffenden Bestimmung kommt darauf an, daß geschirmte Ausführungen gebraucht werden. Für die Beschaffung richtiger Ausführungen ist der Betreiber verantwortlich.

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>



TABLE OF CONTENTS

	<u>Page</u>
CHAPTER 1. 1374 CENTRAL SITE CUSTOMIZATION	1-1
Overview	1-1
CSC Features	1-2
PC Requirements	1-3
Hardware	1-3
Software	1-3
PC Hardware Installation	1-4
Installing a 3.5-Inch Disk Drive in an IBM PC/AT	1-4
Installing a 3.5-Inch Disk Drive in an IBM PC/AT Compatible	1-5
Hardware Configuration	1-6
Verifying Hardware Configuration	1-6
Hardware Configuration Parameters	1-7
PC Software Installation	1-7
MDRIVE#.BIN	1-7
CSC Operation	1-9
Using CSC	1-9
CSC Main Menu	1-11
Multiple Control Unit Configuration	1-14
Downstream Load File Copy Procedure	1-14
Models 71R/72R/73R and 61R	1-14
DSL Error Message	1-15
Models 41R/42R/43R, 51R/52R/53R, and 1L/1R/2R/3R	1-15
RPQ Activation (OEM Specific)	1-17
RPQ Authorization Process	1-17
RPQ Selection Menu	1-18
Local Control Point (LCP)	1-19
Exiting LCP	1-20
Archive	1-20
Archive Error Messages	1-21
APPENDIX A. RELATED PUBLICATIONS	A-1
Memorex Telex Publications	A-1
IBM Publications	A-1
APPENDIX B. ERROR MESSAGES	B-1

LIST OF ILLUSTRATIONS

	<u>Page</u>
Figure 1.	Installing a 3.5-Inch Disk Drive in a 5.25-Inch Mounting Frame 1-4
Figure 2.	Installing a 3.5-Inch Disk Drive in an IBM PC/AT 1-5
Figure 3.	CSC PC Environment 1-10
Figure 4.	CSC Main Menu (Model 1L) 1-11
Figure 5.	DOS Command Input Window Example (Copy) 1-13
Figure 6.	DSL Diskette Copy Window 1-15
Figure 7.	DSL Diskette Copy Window 1-16
Figure 8.	RPQ Authorization Screen 1-17
Figure 9.	RPQ Selection Menu Example 1-18
Figure 10.	Basic-Level LCP Menu 1-19
Figure 11.	IBM PC/AT or Compatible Key Function Changes for 3270 Emulation 1-20
Figure 12.	System Configuration Archives Screen 1-21
Table 1.	System Configuration and Disk Type 1-8



Chapter 1

1374 Central Site Customization

1374 CENTRAL SITE CUSTOMIZATION

OVERVIEW

Central Site Customization (CSC) allows you to completely configure 1374 Control Unit diskettes on an IBM PC/AT or compatible personal computer. Previously, 1374 Control Unit diskettes could only be configured from an 1374 Control Unit. Now, using CSC, diskettes for one or more 1374 Control Units can be configured from a central location without a control unit.

CSC includes Local Control Point (LCP), an 1374 facility that provides easy-to-use online configuration, and Offline Utilities, programs that provide configuration of customized keyboards (System Definition Utility [SDU]), ASCII device operation (ASCII Definition Utility [ADU]), and X.25 (Link Definition Utility [LDU]) operation. CSC also includes Downstream Load (DSL) file copy for 1374 models supporting DSL terminals, archiving of control unit configuration files to the hard disk, and RPQ selection (the RPQ option is managed by a service representative). CSC functions with Release 4.

For easy use, LCP and Offline Utilities menus and screens appear the same in CSC as they do during configuration from a control unit. For example, the CSC Main menu is based on the 1374 Offline Utilities menu and its offline utility selections execute as if from a 1374 Control Unit. Local Control Point (LCP) also operates in the same manner from CSC as from a control unit.

Because of these similarities in operation, this guide must be used in conjunction with the *1374 Configuration Guide* and the *1374 Offline Utility Operations Manual*. It is not designed as a standalone document.

The *1374 Central Site Customization Guide* describes how to set up an IBM PC/AT or compatible for CSC use, how to load CSC, and how to use it. You are referred to the *1374 Configuration Guide* (LCP), the *1374 Offline Utility Operations Manual* (SDU, ADU, and LDU), and the *1374 X.25 Operations Manual* (LDU) for detailed configuration information.

This guide covers all the 1374 models. CSC displays menu selections consistent with the type of control unit diskettes being configured. For example, the CSC Main menu LDU selection is activated only if an X.25 system diskette is being configured. CSC figures shown in this guide are just examples of what you may see on your screen.

1374 CENTRAL SITE CUSTOMIZATION

CSC FEATURES

Memorex Telex's CSC provides complete 1374 configuration capabilities and includes the following features.

- Provides complete control unit diskette configuration without a control unit
- Provides easy-to-use configuration (LCP)
- Defines special keyboards (SDU)
- Defines ASCII device profiles (ADU)
- Supports Link Definition Utility (LDU) for X.25 network operation
- Supports Downstream Load file copy
- Activates RPQs (managed by a service representative)*
- Archives configuration files on the IBM PC/AT or compatible
- Performs file operations
- Displays the same LCP and Offline Utility interfaces used in online control unit configuration
- Handles different IBM PC/AT or compatible hardware configurations
- * This manual covers all the information required for OEM activation of RPQs. Prior to OEM distribution, the "RPQ Activation" section and other areas mentioning the RPQ option, as well as the "Renaming Control Unit Models" subsection under "CSC Operation," may require editing to fit customer needs.

PC REQUIREMENTS

HARDWARE

An IBM PC/AT or compatible running CSC must have the following hardware.

- 5.25-inch disk drive supporting a high-density, 1.2-Mbyte capacity (for DSL file copy)
- 500-Kbytes of RAM available for CSC execution
- 3.5-inch, 1.44-Mbyte disk drive*
- Hard disk with 2.0-Mbytes available for storage of CSC files
- * If a 3.5-inch disk drive is not currently installed, a 3.5-inch disk drive kit (Mitsubishi recommended) with a 5.25-inch mounting frame and instructions is available from:

Jameco Electronics
1355 Shoreway Road
Belmont, CA 94002

The manufacturer's extensive instructions cover assembly, installation, switch settings, and jumpering.

SOFTWARE

An IBM PC/AT or compatible running CSC must have the following software.

- Memorex Telex's diskette driver (MDRIVE#.BIN) installed in the PC CONFIG.SYS file. The # stands for the current MDRIVE version number.
- PC or MS-DOS 3.0 or above
- IBM diagnostics diskettes
- PC ANSI.SYS console driver installed in the PC CONFIG.SYS file

3.5-INCH DISKETTE

The media in the 3.5-inch, 2.0-Mbyte drive must support a density of 135 TPI.

PC HARDWARE INSTALLATION

INSTALLING A 3.5-INCH DISK DRIVE IN AN IBM PC/AT

The PC hardware installation for an IBM PC/AT consists of installing a 3.5-inch disk drive into the IBM PC/AT. To do this, perform these steps.

CAUTION

Make sure the IBM PC/AT is powered off before performing these steps.

STEP 1: Remove the cover from the IBM PC/AT and loosen the 5.25-inch disk drive by removing its screws at the front of the IBM PC/AT.

STEP 2: Install the 3.5-inch disk drive with the 5.25-inch mounting into the second disk drive slot (referring to the disk drive manufacturer's instructions, mount the IBM PC/AT rails onto the frame prior to installation).

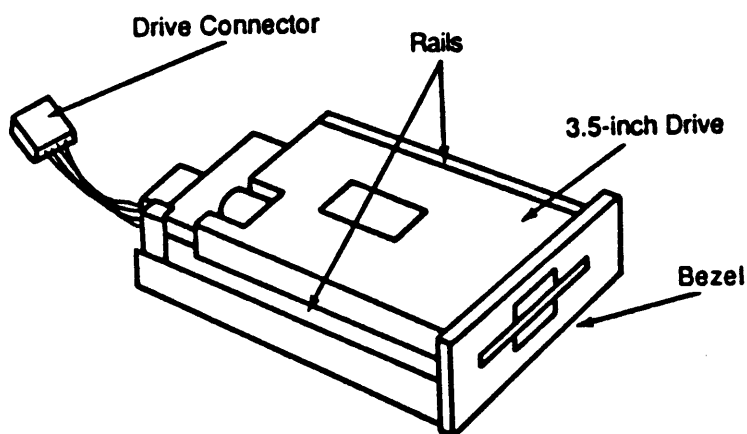


Figure 1. Installing a 3.5-Inch Disk Drive in a 5.25-Inch Mounting Frame

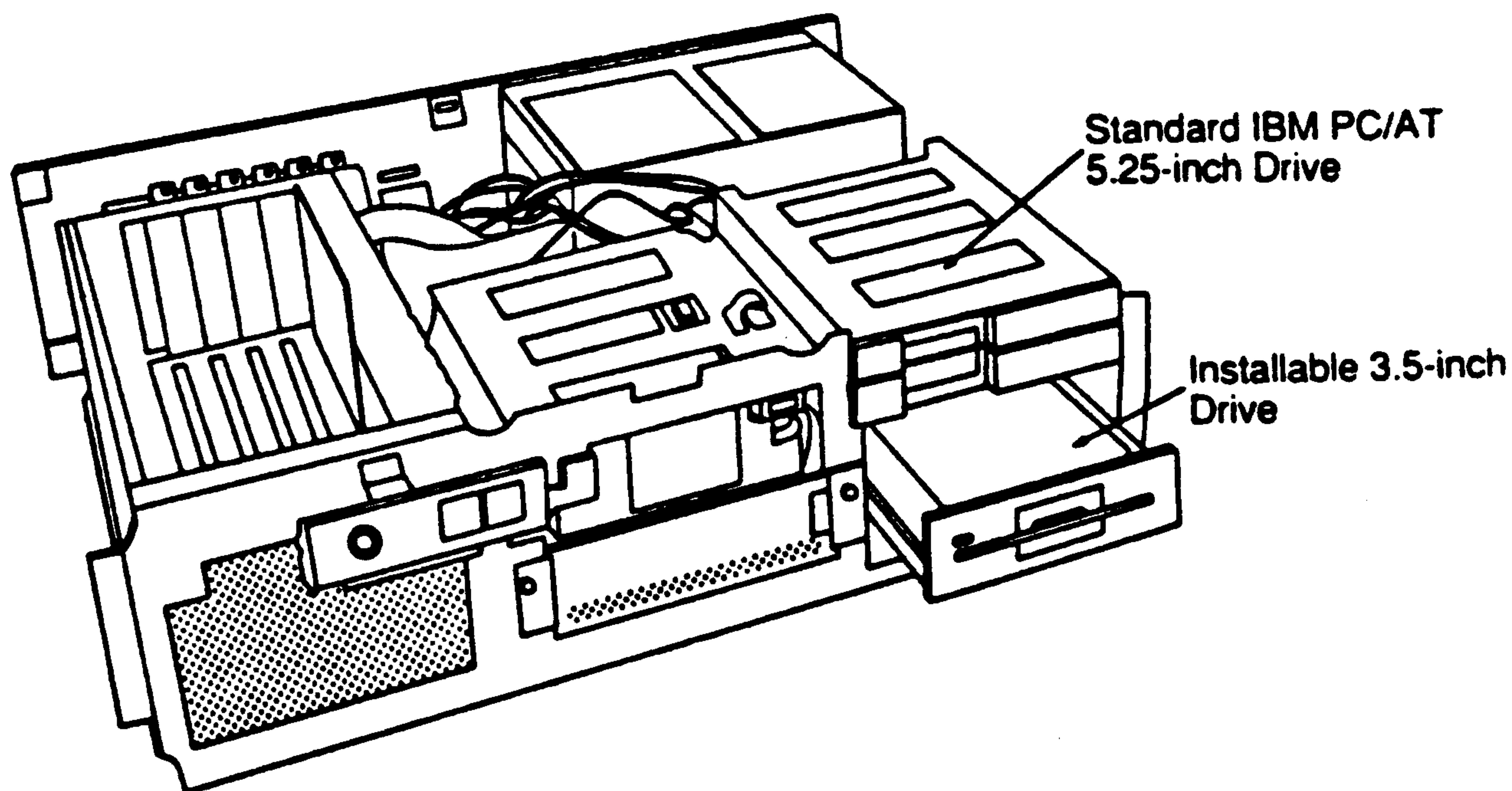


Figure 2. Installing a 3.5-Inch Disk Drive in an IBM PC/AT

STEP 3: Connect the signal cable and the power cable to the new 3.5-inch disk drive.

INSTALLING A 3.5-INCH DISK DRIVE IN AN IBM PC/AT COMPATIBLE

Hardware installation for an IBM PC/AT compatible is similar to the installation on an IBM PC/AT. Follow the documentation appropriate to the individual compatible for specific details.

CAUTION

Make sure the IBM PC/AT compatible is powered off before performing these steps.

STEP 1: Remove the cover from the IBM PC/AT compatible and loosen the 5.25-inch disk drive by removing its screws at the front of the IBM PC/AT.

STEP 2: Install the 3.5-inch disk drive with the 5.25-inch mounting frame into the second disk drive slot. Mount the IBM PC/AT compatible rails onto the frame prior to installation.

STEP 3: Connect the signal cable and the power cable to the new 3.5-inch disk drive.

HARDWARE CONFIGURATION

VERIFYING HARDWARE CONFIGURATION

Perform the steps listed under subsection "IBM PC/AT" or subsection "IBM PC/AT Compatible" to modify your machine's disk drive parameters and verify its hardware configuration.

IBM PC/AT

- STEP 1: Power on your IBM PC/AT and insert the IBM diagnostics disk in Drive A.
 - STEP 2: A setup error message may appear. Press the F1 key to load diagnostics and display the Diagnostics menu.
 - STEP 3: Select the setup routine option from the Diagnostics menu.
 - STEP 4: Modify the disk drive parameters to indicate Drive B is using a 1.2-Mbyte, high-density format. This step provides proper operation of Memorex Telex's MDRIVE. MDRIVE is fully explained in the "PC Software Installation" section of this guide.
 - STEP 5: Press the 9 key to exit the setup routine. The system reboots automatically after the configuration is accepted.
 - STEP 6: After the system reboots, select the diagnostics option, then select the disk diagnostics option.
 - STEP 7: Select the format option from the diagnostics menu and format a 3.5-inch diskette.
 - STEP 8: Perform a disk change test at the diagnostics menu.
 - STEP 9: Run a sequential test from the diagnostics menu.
- Steps 7 through 9 verify that reading and writing to the Drive B disk are working and the drive is properly jumpered.
- Follow the instructions in the "PC Software Installation" section to complete IBM PC/AT setup for CSC operation.

IBM PC/AT COMPATIBLE

Due to hardware and software features specific to different compatibles, refer to your compatible's documentation for detailed information when performing these steps.

1374 CENTRAL SITE CUSTOMIZATION

HARDWARE CONFIGURATION PARAMETERS

STEP 1: Following your documentation, enter the setup routine and specify Drive B is a 1.2-Mbyte, 5.25-inch, high-density drive. If your compatible has a 3.5-inch, 1.44-Mbyte disk drive selection, use that selection.

STEP 2: Possibly there will be a setup error message displayed. To continue, press the key specified in the appropriate documentation.

STEP 3: After configuration is accepted most compatibles will automatically reboot. Follow your compatible's documentation to exit the setup routine and redisplay the diagnostics menu.

STEP 4: Select the format option from the diagnostics menu and format a 3.5-inch diskette.

STEP 5: Select the disk change option from the diagnostics menu and perform a disk change.

You can now alter the CONFIG.SYS file, using ASCII editor, to add the device drive definition line (see Installing MDRIVE).

PC SOFTWARE INSTALLATION

To install the software for the 3.5-inch drive, add the MDRIVE device driver definition line to the CONFIG.SYS file by following the steps in the subsection "Installing MDRIVE."

MDRIVE#.BIN

The MDRIVE disk driver runs under DOS 3.0 on an IBM PC/AT or compatible. It supersedes XDRIVE and supports the Memorex Telex disk format (plus standard DOS formats). The # in MDRIVE#.BIN stands for the current MDRIVE version number.

MDRIVE is a modified version of the QDRIVE device driver (Tall Tree Systems, 1120 San Antonio Road, Palo Alto, CA 94303). This software is distributed by Memorex Telex on the CSC Executables diskette.

1374 CENTRAL SITE CUSTOMIZATION

INSTALLING MDRIVE

The MDRIVE#.BIN file must be copied to the root directory of your hard disk. Add the MDRIVE device driver definition line to the CONFIG.SYS file by performing the following steps.

STEP 1: Use DOS COPY to move MDRIVE#.BIN to your hard disk root directory.

STEP 2: Using your system editor, add the following line to the CONFIG.SYS file. (Refer to Table 1 in the following subsection, "DRIVE ID.")

```
DEVICE=MDRIVE#.BIN H M
```

STEP 3: Type CONFIG.SYS to confirm the file addition. Remove the Memorex Telex diskette from Drive A and reboot your machine.

DRIVE ID

The disk drive's logical drive ID is assigned by DOS according to the order of the installable drivers in CONFIG.SYS. Do not use the *physical* drive ID (such as A: or B:) to refer to the *logical* drives handled by the MDRIVE disk driver.

For example, in an IBM PC/AT or compatible with one high-density 5.25-inch drive, an added 3.5-inch drive, and one hard disk, the setup configuration must be modified to specify two disk drives. DOS automatically assigns drive ID "B" to the 3.5-inch drive, thinking it is a standard drive type, but Drive B is unusable as a DOS disk drive.

With the disk type definition "H M," Drive A is a standard 5.25-inch, 1.2-Mbyte drive; Drive B is not used; Drive D is a 5.25-inch, 800-Kbyte drive; and the 3.5-inch drive is Drive E.

<u>Drive Configuration</u>	<u>Disk Type</u>
PC/AT or compatible: 1 high-density 5.25-inch, 1 3.5-inch	H M

Table 1. System Configuration and Disk Type

CSC OPERATION

USING CSC

DISKETTE REQUIREMENTS

CSC software is distributed on an 5.25-inch diskette and is shipped with the control unit. CSC installation and operation requires the following Release 4.0 diskettes for basic configuration.

- Installation
 - CSC diskette
- Operation (3.5-inch diskette format)
 - System diskette for the control unit environment
 - Standard Language diskette
 - RPQ Security Key diskette (RPQ activation must be performed by a service representative)
 - Utilities diskette

COPYING CSC

Create a new directory for the CSC files on the IBM PC/AT or compatible hard disk then copy the CSC diskette into that directory. CSC must be run from that directory on the hard disk.

RENAMING CONTROL UNIT MODELS (OEM Specific)

To rename control unit models and change software version numbers that appear on CSC screens, edit CSC_CNFG.TXT from DOS. A list of Memorex Telex control unit models appears followed by a list of the software version numbers. Type new control unit model names or software version numbers in the fields of the corresponding second column to display specific model names and software numbers on CSC screens.

ACCESSING CSC

From the CSC directory, type CSC at the DOS prompt to access CSC and display the CSC PC Environment screen.

1374 CENTRAL SITE CUSTOMIZATION

```
Central Site Customization PC Environment

                Device          Usage
Hard Disk . . . . . (C:)          CSC
3.5" Drive #0 . . . . . (E:)      SYS UTL KEY
3.5" Drive #1 . . . . . ( : )    NEX
5.25" Drive . . . . . (A:)        DSL
Hard Disk Drive Letter

Non-Selectable:
  CSC - Where CSC program executing from
  NEX - Non-Existent Hardware
  DSL - Downstream Load Diskette Drive
User-Selectable:
  SYS - Drive where System Diskette placed
  UTL - Drive where Utility Diskette placed
  KEY - Drive where Security Key Diskette placed
  NAV - Present, but not available for CSC use

Enter  F1=Help  F3=Exit
```

Figure 3. CSC PC Environment

The CSC PC Environment screen displays the IBM PC/AT or compatible hardware environment for CSC operation. It shows the number and type of the IBM PC/AT or compatible's disk drives and the designated uses of the hard disk and disk drives during CSC execution.

Redesignate disk drive use by moving the cursor with the Tab and arrow keys and typing the desired designation. The PC Environment screen must show designated disk drives for the system, Offline Utilities, and RPQ Security Key diskettes. When the desired designations are made press the Enter key to save the designations and advance to the CSC Main menu.

CSC PC ENVIRONMENT SCREEN ERROR MESSAGES

"Non-Selectable Field Changed" – The non-changeable fields, CSC or NEX, were selected for redesignation. CSC redisplay the original PC Environment screen. Do not change a non-changeable field.

"Missing Diskette Type" – The system, Offline Utilities, or RPQ key diskette designation is missing. Enter the missing diskette type in the appropriate field.

"Not a diskette drive" – The incorrect diskette drive label has been entered in the Drive field. Enter a usable diskette drive label.

CSC MAIN MENU

From the CSC PC Environment screen, press the Enter key and insert the control unit's system diskette to display the CSC Main menu.

Central Site Customization Main Menu

(1374-01L, 4.0, Local - SNA, ACS)

DOS Commands:

1. COPY
2. DELETE
3. DIR
4. RENAME
5. FORMAT

Configuration Commands:

1. ADU
2. SDU
- *. LDU
4. LCP
5. RPO
6. DSL
7. ARCHIVE

Off-line Utilities Copy

Enter TAB=Switch Cmd Group F1=Help F3/Esc=Exit F5=Read system diskette

Figure 4. CSC Main Menu (Model 1L)

The CSC Main menu displays the control unit model number being configured and its software release number based on the information in the CSC_CNFG.TXT file. It also displays the CSC Main menu options. When an asterisk (*) replaces an option's number in the CSC Main menu that option does not apply to the system diskette being configured and is not usable.

The CSC Main menu options are briefly described in the following text. Options marked with an underlined bullet in the text are unique to CSC operation and are described in detail later in this guide.

DOS COMMANDS

- Copy – Copies a file to the same diskette or to another diskette. Refer to the *1374 Offline Utility Operations Manual* for details.
- Delete – Erases a specified file on the diskette currently in the drive. Refer to the *1374 Offline Utility Operations Manual* for details.

1374 CENTRAL SITE CUSTOMIZATION

- **DIR (Directory)** – Displays a list of all files stored on a diskette or hard drive, showing the file name, extension, byte size, and date and time of last modification. Refer to the *1374 Offline Utility Operations Manual* for details.
- **Rename** – Changes existing file's name on a diskette. Refer to the *1374 Offline Utility Operations Manual* for details.
- **Format** – Creates an 1374 system compatible diskette. Refer to the *1374 Offline Utility Operations Manual* for details.

CONFIGURATION COMMANDS

- **ADU (ASCII Definition Utility)** – Modifies an existing A/A device profile on the system's default list of profiles, assigns a predefined profile to the system's default list, and creates and defines an A/A device profile. To use ADU on an IBM PC or compatible, refer to Figure 11 in this manual for key function changes for 3270 Emulation.
- **SDU (System Definition Utility)** – Selects host and keyboard language, customizes EBCDIC and A/A host interface tables, standard A/A emulated keyboard tables, and A/A emulation styles. To use SDU on an IBM PC or compatible, refer to Figure 11 in this manual for key function changes for 3270 Emulation.
- **LDU (Link Definition Utility)** – Configures the control unit for SNA X.25 operation. The option is only available when an X.25 system diskette is being configured. To use LDU on an IBM PC or compatible, refer to Figure 11 in this manual for key function changes for 3270 Emulation.
- **LCP (Local Control Point)** – Provides easily accessible configuration. Refer to the *1374 Configuration Guide* for details on LCP operation.
- **RPQ** – Displays available RPQs and allows RPQ selection. Refer to each RPQ's specific manual for details on that RPQ. (This option is managed by your service representative.)
- **DSL** – Provides Downstream Load files copy if the IBM PC/AT or compatible has a 5.25-inch high-density disk drive. This option does not appear on the CSC Main menu if a 5.25-inch disk drive is not available.
- **Archive** – Stores control unit configuration files on the IBM PC/AT or compatible hard disk.

COMMAND EXECUTION

Press Tab or use the up or down arrow keys to move the cursor between the DOS commands and the Configuration commands. Select commands by doing one of the following:

- Use the arrow keys to move the cursor to the command and press the Enter key.
- Within the command group enter the command number.
- Within the command group enter the underlined letter in each command.

DOS COMMAND WINDOW

When you select a DOS command from the CSC Main menu a window appears requesting input.

Internal Off-line Utility Function

Type COPY parameters. Then Enter.

COPY _____

Enter ESC=Cancel F1=Help F3=Exit

Figure 5. DOS Command Input Window Example (Copy)

Type the appropriate information then press the Enter key to activate the command.

1374 CENTRAL SITE CUSTOMIZATION

DISKETTE ASSIGNMENT

Each diskette must be in its assigned disk drive when that diskette's menu selections are executed. If a diskette is not in the disk drive when required, a prompt appears requesting insertion of the correct diskette. If the correct diskette is still not inserted, and depending on the type of incorrect diskette that is inserted, a fatal or warning error window appears on the screen.

A fatal error message causes CSC to stop operation until the error is corrected. A warning message allows CSC to continue but processing errors may occur. Correct the error by inserting the correct diskette into the assigned disk drive, then continue operations.

MULTIPLE CONTROL UNIT CONFIGURATION

To configure a different control unit after completing one control unit's configuration, return to the CSC Main menu. Insert the new system diskette to be configured and press the F5 key to select the Read system diskette option. Function keys you can use with the CSC Main menu (such as F5) are listed on the bottom line of the screen.

CSC reads the current diskette in the drive, updates its internal control unit type definition in preparation to configure the new control unit system diskette, then redisplay the CSC Main menu. Perform the configuration process for the new control unit system diskette from this point.

DOWNSTREAM LOAD FILE COPY PROCEDURE

The DSL feature supports IBM terminals 3179-G, 3192-G, 3193, and 3290. In addition to a 3.5" disk drive and a hard disk, to support DSL File Copy the IBM PC/AT or compatible must have a 5.25-inch high-density disk drive.

MODELS 71R/72R/73R AND 61R

Models 71R/72R/73R and 61R have a single disk drive. To support DSL on one of these models, you must copy the DSL software onto the control unit's system diskette.

STEP 1: Select DSL from the CSC Main menu to display the DSL Diskette Copy Window.

Central Site Customization Downstream Load Diskette File Copy

Insert DSL Diskette in the 5.25" drive (A:) and system diskette in drive #0 (E:) and press ENTER when ready...

Enter F1=Help F3=Exit

Figure 6. DSL Diskette Copy Window

This screen prompts you to insert the system diskette and the DSL diskette in designated disk drives.

NOTE: The DSL and system diskettes used for DSL copy must be owned by the same customer. Legal restrictions prohibit a user from copying DSL code onto the system diskette of another user.

STEP 2: Insert the diskettes. CSC copies the DSL files onto the system diskette. DSL file names appear as copying progresses. When copying is complete press the Enter key to return to the CSC Main menu.

DSL ERROR MESSAGE

"Invalid System Diskette" – A non-system diskette is inserted in the system disk drive. Insert the correct diskette and continue.

MODELS 41R/42R/43R, 51R/52R/53R, AND 1L/1R/2R/3R

STEP 1: Models 41R/42R/43R, 51R/52R/53R, and 1L/1R/2R/3R must have the second disk drive to support DSL File Copy. Create a separate DSL diskette or copy DSL onto the ACS diskette. Select DSL from the CSC Main menu to display the DSL Diskette Copy window (Figure 7).

1374 CENTRAL SITE CUSTOMIZATION

Central Site Customization Downstream Load Diskette File Copy

Insert DSL Diskette in the 5.25" drive (A:) and System/ACS/Empty diskette in drive #0 (E:) and press ENTER when ready...

Enter F1=Help F3=Exit

Figure 7. DSL Diskette Copy Window

This screen prompts you to insert the DSL diskette and the ACS, system, or a formatted 3.5-inch empty diskette into their designated disk drives.

STEP 2: Insert the diskettes. CSC copies the DSL files onto the ACS or empty diskette. DSL file names appear as copying progresses. When copying is complete, press the Enter key to return to the CSC Main menu.

RPQ ACTIVATION (OEM Specific)

The RPQ option lets you select which RPQs to activate on the system diskette. When you initially select the RPQ option an RPQ authorization process occurs. This process needs to be performed for each CSC execution. The RPQ Selection menu automatically appears if you reselect RPQ from the CSC Main menu.

RPQ AUTHORIZATION PROCESS

Select RPQ from the CSC Main menu to display the RPQ Authorization screen.

Central Site Customization RPQ Selection Authorization

Insert RPQ Security Key diskette in drive #0 (E:)
and press ENTER when ready...

Enter ESC=Cancel F1=Help F3=Exit

Figure 8. RPQ Authorization Screen

The RPQ Authorization process loads RPQ information into CSC. To perform the RPQ Authorization process, insert the RPQ Security Key diskette into its designated disk drive and press the Enter key to activate the RPQ information.

When RPQ Authorization is complete, a prompt appears to swap the Security Key and system diskettes if necessary. Insert the system diskette into the correct disk drive to continue operation. The RPQ Selection menu appears next.

1374 CENTRAL SITE CUSTOMIZATION

RPQ SELECTION MENU

The RPQ Selection menu (Figure 9) displays a list of RPQs you have purchased.

```
Central Site Customization RPQ Selection Activation

Modify RPQ selection values and press Enter to activate in the system

Dual Sessions . . . . . N      SF order code . . . . . X
EAB devices . . . . . Y      Unbind on session DEACT . . . . . M
DFT devices . . . . . Y      Dual SNA Hosts . . . . . M
RTM/Alerts . . . . . N      DFT downstream load . . . . . Y
Coax Monitor . . . . . N     ACS allowed . . . . . M
CLEAR key RPQ . . . . . Y    Transmit data on X.25 channel 0 . . . . . X
Printer datastream . . . . . N Print Alarm . . . . . M
Type-Ahead . . . . . N
Coax Block Size (#bytes/2 where 00=512) . . . . . 255
Key use (0 - Normal, 1 - Tab to Colon, 2 - Newline apostrophe) . . . . . 0
Coax Poll/response (0 - normal, 1 - fast response timeout,
                    2 - high speed poll, 3 - both) . . . . . 0
Copy (0-Normal, 1 - Post Form Feed, 2 - Pre Form Feed,
                    4 - NULLs to spaces, 8 - Suppress NULLs . . . . . 00

Enter  ESC=Cancel  F1=Help  F3=Exit
```

Figure 9. RPQ Selection Menu Example

Use the Tab key or the arrow keys to move the cursor to a RPQ Selection menu selection. Enter Y to enable or N to disable a simple RPQ for distribution to your customers. Enter the value of the input field for multiple choice RPQ selections. Press the Enter key to activate the selections and redisplay the CSC Main menu or press the F3 key to redisplay the CSC Main menu without activating the selections.

LOCAL CONTROL POINT (LCP)

Local Control Point (LCP) provides easy-to-use 1374 Control Unit configuration. Refer to the *1374 Configuration Guide* for complete information on LCP and its commands.

Select LCP from the CSC Main menu to display the LCP menu. For easy of use, LCP looks and functions the same in CSC as it does during online control unit configuration.

```
====>
Enter LCP command
-----
LCP command options
/ TEST
A OPERATOR GENERATED ALERT
D DISPLAY
E ECHO
S HOST SELECTION
-----
Key usage in LCP ownership
PF3 - display prompt message
PF7 - scroll backward
PF8 - scroll forward
PA1 - change Operator Information Line mode
TEST - return to application session
```

Figure 10. Basic-Level LCP Menu

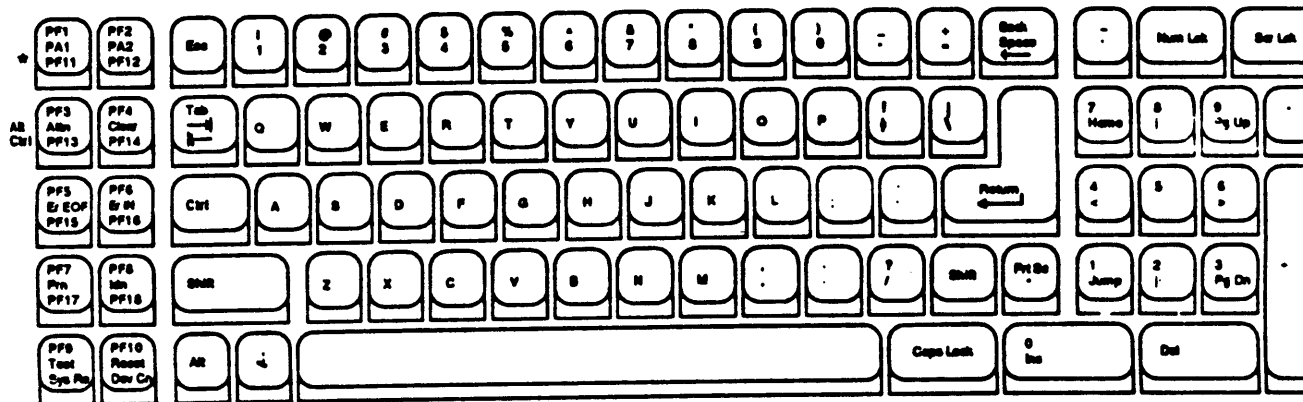
The following LCP commands only apply to online operation of the control unit. These commands appear on CSC menus but result in an "unexecutable command" if used.

- Alert
- Echo
- Test
- X.25 Dial/Disc
- Activate/Deactivate Host
- Host Selection
- ASCII Host Printer Assignments

1374 CENTRAL SITE CUSTOMIZATION

Several online statistics and the use of the PA1 and PA2 keys are also deactivated on CSC.

To use LCP, see the IBM PC/AT or compatible key function changes required to emulate 3270 keystrokes (Figure 11).



* Also refer to this keyboard when using ASCII Definition Utility, System Definition Utility, and Link Definition Utility. On these Offline Utilities, Shift/F1 = PF11 and Shift/F2 = PF12.

Figure 11. IBM PC/AT or Compatible Key Function Changes for 3270 Emulation

EXITING LCP

To exit LCP and return to the CSC Main menu, press Alt/F9 or Esc.

ARCHIVE

CSC creates archives of system diskette control unit configurations on the IBM PC/AT or compatible hard disk. You can create, delete, update, and retrieve configuration archives. Archive can be used for a variety of support purposes such as storing base configurations that can be further configured when retrieved to the system diskette.

Select ARCHIVE from the CSC Main menu to display the System Configuration Archives screen.

The System Configuration Archives screen offers options allowing you to create, update, retrieve, or delete configuration archives.

To perform an archive function make sure the system diskette is in the disk drive. At the System Configuration Archives screen, type the name of the archive you are creating, updating, retrieving, or deleting.

Type Archive Name, then Select Action, and Enter

Archive Name:...._____

Action... 1. Create/Update Archive
 -> 2. Retrieve Archive
 3. Delete Archive

Copy Archive Files to System Diskettes

Enter ESC=Cancel F1=Help F3=Exit

Figure 12. System Configuration Archives Screen

Press Tab or Enter to move the cursor to the action commands. Select the desired command using the arrow keys to move the cursor to the command and pressing Enter, or by entering the command's number or underlined letter.

Before CSC updates or retrieves a requested archive, it verifies the correct configuration archive being updated or retrieved. An error message appears if an archive request is incompatible (such as requesting a non-SNA update to a SNA archive). This check prevents configuration archive actions on incompatible control unit configurations.

In the case of a retrieve, after the configuration archive is verified, the system diskette configuration is based on the configuration files in the selected archive. The new configuration can be manipulated via CSC.

ARCHIVE ERROR MESSAGES

"Archive Configuration Conflict" – Nonmatching update requested, such as SNA update to a non-SNA archive. Make sure the configuration update matches the archive.

"Diskette Configuration Conflict" – Nonmatching retrieval requested, such as SNA retrieve to a non-SNA diskette. Make sure the configuration retrieval request matches the diskette.

Appendix A

Related Publications

RELATED PUBLICATIONS

MEMOREX TELEX PUBLICATIONS

- 1374 ACS Operations Manual (1374000001M6)
- 1374 Central Site Customization Guide (1374000001M7)
- 1374 Configuration Guide (1374000001M2)
- 1374 LAN Operations Manual (1374000001M4)
- 1374 Offline Utility Operations Manual (1374000001M3)
- 1374 Product Family Guide (1374000001M1)
- 1374 Product Service Manual (1374000001M8)
- 1374 Troubleshooting Guide (1374000001M9)
- 1374 X.25 Operations Manual (1374000001M5)

IBM PUBLICATIONS

- ACF/VTAM Library Supplement for X.25 Packet-Switching Data Network Support (LY30-5568)
- ACF/VTAM Planning and Installation Reference (ST27-0610)
- IBM Cabling System Planning and Installation Guide (GA27-3361)
- IBM 3174 Subsystem Control Unit Functional Description (GA23-0218)
- IBM 3270 Information Display System Character Set Reference (GA27-2837)
- IBM 3270 Information Display System Keyboard Definition Utility User's Guide
- IBM 3710/X.25 Implementation Primer (GG24-1969-0)
- IBM 4300 X.25 Comm Adapter Support Implementation Guide (GG24-1675-0)
- Series/1 for use in X.25 Networks (GG24-1651-0)

Appendix B

Error Messages



ERROR MESSAGES

The error messages in this appendix are specific to Central Site Customization operation.

If You See the Message ...	It Means ...
“0 file(s) deleted.”	The program failed to find the correct file to delete. Ensure that the correct diskette is in the disk drive.
“Address already mapped.”	Two entries have the same LAN address. All LAN addresses must be unique.
“Attempted open of file with wild card file characters.”	Do not use wild card characters to open files.
“Attempted rename with wild card names.”	Do not use wild card characters with the Rename command.
“Cannot close file Copy #... failed.”	Try the operation again. If the message is repeated, you may have a bad diskette.
“Cannot copy file onto itself.”	You tried to copy with the same source and destination file names without specifying -t.
“Cannot map different DSNs to the same LAN entity.”	Two entries have the same LAN address, including SAP. All LAN addresses must be unique.
“Cannot map DSN to multiple LAN entities.”	Two entries have the same DSN address.
“Cannot open file Copy #... failed.”	Try the operation again. If the message is repeated, you may have a bad diskette.
“Cannot open foreign language file.”	Try the operation again. If the message is repeated, you may have a bad diskette.
“Cannot open keyboard file.”	Try the operation again. If the message is repeated, you may have a bad diskette.
“Cannot read configuration file”	Try the operation again. If the message is repeated, you may have a bad diskette.
“Cannot rename on different drives.”	Cannot rename, for example, the “A:” drive to “B:” drive.
“Cannot update file Copy #... failed.”	Try the operation again. If the message is repeated, you may have a bad diskette.
“Cannot write file Copy #... failed.”	Try the operation again. If the message is repeated, you may have a bad diskette.
“Copy aborted.”	An error occurred during the copying process. Try operation again.

ERROR MESSAGES

If You See the Message ...	It Means ...
"Device Not Attached to This Port."	A port number does not have an attached maximum number of supported logical ports. Delete the extra logical port numbers.
"Device Not Authorized to This Pool."	Use the Configure Device Authorization Matrix command to authorize device access to A/A hosts.
"Device type must be 0 or 1."	Valid entries are 0 indicating a PC or 1 indicating a control unit.
"Disk error."	Try the operation again. If the message is repeated, you may have a bad diskette.
"Disk is not ready."	Disk drive door may be open; close door.
"DSN already mapped to another LAN entity."	Two entries have the same DSN address.
"Duplicate file name."	You designated a file with a name already in existence. Change one of the file names.
"Duplicate Value"	A logical port is assigned multiple times. Enter the Configure Logical Units screen and check the logical unit assignments.
"End of directory reached."	An internal software problem occurred. Contact your Customer Support Specialist.
"Error opening configuration file"	Try the operation again. If the message is repeated, you may have a bad diskette.
"Error closing"	Try the operation again. If the message is repeated, you may have a bad diskette.
"Error Pool Not Configured."	A preferred host name has been entered at the Configure Terminal Options screen and this name has not been configured as a host name. Configure the host name using the CH or the CO command.
"Error reading"	Try the operation again. If the message is repeated, you may have a bad diskette.
"Error writing"	Try the operation again. If the message is repeated, you may have a bad diskette.
"Exceeding Number of LUs Configured."	Enter a lower number in the number of LUs parameter in the CH screen, or enter more LUs in the CL screen.
"Exceeds Maximum Number of LUs Supported."	Enter a lower number in the number of LUs parameter in the CH screen. The control unit can only support a specified number of LUs.
"Failed delete."	Try the operation again. If the message is repeated, you may have a bad diskette.

ERROR MESSAGES

If You See the Message ...	It Means ...
"Failed rename."	Try the operation again. If the message is repeated, you may have a bad diskette.
"File is already open."	An internal software problem occurred. Contact your Customer Support Specialist.
"File is not open."	Ensure that the correct diskette is in the disk drive. If correct diskette is installed and message still appears, contact your Customer Support Specialist.
"File not found."	Ensure that the correct diskette is in the disk drive.
"File pointer does not point to file structure."	An internal software problem occurred. Contact your Customer Support Specialist.
"Format error."	An incorrect parameter or command has been entered. For example, an incorrect value has been entered in a field or an extra character has been entered on the command line.
"Format Error - xxx"	Incorrect data (xxx) are detected in the LCP command field after a valid mnemonic. Reenter the LCP command in the command field. OR No sessions are authorized for selection. OR The password was entered in the command field rather than the password field. Reenter the password in the password field. OR A space was not entered after the E (Echo command mnemonic) in the command field. Type E space and the desired characters you want echoed back on the screen.
"Frame size must be 265, 521, 1033, or 2042 bytes."	Valid entries are 265 for a PC; 265, 521, 1033, or 2042 for a Memorex Telex control unit; 2042 for other control units.
"Host Name Already Configured."	You are attempting to assign an IBM host name to an A/A host. This is not supported.
"Host Name Already Configured for ASCII Pool."	This occurs when you are trying to assign an A/A host name to an IBM host. This is not supported
"Illegal command."	You executed a command that does not exist on the menu.
"Incompatible Message File."	The LCP language file does not match the version on the diskette. Use the correct system diskette.

ERROR MESSAGES

If You See the Message ...	It Means ...
"Invalid ASCII Host Port."	This port cannot be used as a host port.
"Invalid Command Option."	An incorrect command was entered in the LCP command field. Reenter the parameter.
"Invalid disk allocation string."	An internal software problem occurred. Contact your Customer Support Specialist.
"Invalid Display ID - dd."	The indicated display ID (dd) is not a decimal number, or is outside the range of supported port IDs.
"Invalid Downstream Node Address."	The downstream node LAN address must be a unique 12 hexadecimal digit (6 bytes).
"Invalid file access mode."	You attempted to access a hidden or system file, or a subdirectory.
"Invalid Host ID."	The host designator number must be either 1 or 2. The number 2 is valid only if the control unit is configured for two hosts.
"Invalid LAN Address."	LAN address must be a 12 hexadecimal digit (6 bytes).
"Invalid Language ID."	An invalid language was selected.
"Invalid Parameter."	An incorrect parameter was entered in a field or on the command line. OR The same LU/host address was assigned to more than one physical unit. Correct this error at the Configure Logical Unit screen. OR An incorrect LAN address or SAP has been entered on the command line via the NS command, or an incorrect value has been entered in a field via the NP command. When using the CS command, 00 is not valid as a remote host DSN address.
"Invalid Port ID."	The specified port ID is not a valid decimal number or is not in the range of available port IDs. Reenter the port ID number.
"Invalid Printer Class - cc."	The indicated printer class (cc) is not valid.
"Invalid Printer ID."	Ensure all printer parameters and assignments are entered correctly.
"Invalid Printer Mode - mmm."	The indicated mode (mmm) is not valid.
"Invalid Printer Port."	An invalid port number was entered using the CM command. Enter a different printer port number.

ERROR MESSAGES

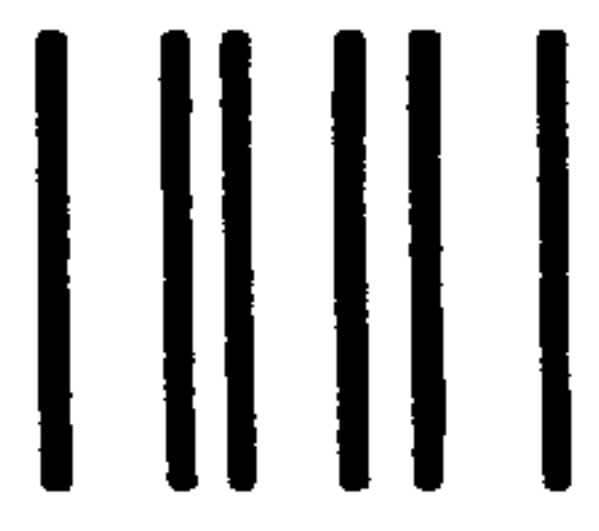
If You See the Message ...	It Means ...
“Invalid SAP.”	SAP number must be hex 04, 08, or multiple of 04.
“Invalid SAP-must be a multiple of 04.”	SAP number must be hex 04, 08, or multiple of 04.
“Invalid sector number.”	An internal software problem occurred. Contact your Customer Support Specialist.
“Invalid System Diskette.”	A nonsystem or non-ACS diskette was inserted in the system disk drive. Insert the correct diskette and continue.
“Keyboard File exceeds allocated size.”	Try the operation again. If the message is repeated, you may have a bad diskette.
“LCP: I/O Error.”	This error message displays when LCP unsuccessfully attempts to read or write a file from/to the system diskette. This occurs when the system diskette is not inserted into the control unit drive, the system diskette is corrupt, or the control unit's disk drive has a problem. If this occurs, first ensure the system diskette is inserted into the control unit drive. Second, try using a new system diskette. Third, if you suspect the disk drive is the problem, contact the system administrator.
“Mapping Incomplete.”	Completely fill in the entry line.
“Missing Diskette Type.”	The system, Offline Utilities, or RPQ key diskette designation is missing. Enter the missing diskette type in the appropriate field.
“Must specify SAP.”	Type the SAP number (hex 04, 08, or multiple of 04) following the LAN address.
“No ASCII Hosts Available.”	A/A hosts have not been assigned to the device. Use the Configure Device Authorization Matrix to assign devices to A/A hosts, or use the Configure Terminal Options to define an A/A host.
“No configuration files found.”	The diskette you inserted is not a system diskette.
“No Existing Assignment.”	No ports have been authorized through the CO command.
“No Host Address Configured.”	Enter the Configure Host screen and enter the host processor address or verify all logical units are assigned correctly.
“No LUs Configured.”	Assign LUs using the CL command.
“Non Selectable Field Changed.”	The nonchangeable fields or NEX were selected for redesignation. The original PC Environment screen reappears. Do not change a nonchangeable screen.
“Not a diskette drive.”	The incorrect diskette drive label has been entered in the Drive field. Enter a usable diskette drive label.

ERROR MESSAGES

If You See the Message ...	It Means ...
"Not enough arguments."	The DOS command was entered without parameters or one of the parameters contained an error.
"Number of LUs Less Than Currently Assigned."	The number of LUs currently assigned exceeds the number entered in the number of LUs parameter in the CH screen. If this occurs, enter a larger number of LUs in the number of LUs parameter in the CH screen.
"Pool Not Configured."	Using the CO command, set A/A host parameters.
"Port Not Authorized for ASCII Host Access."	Using the CO command, set up A/A host authorization. Using the CD command, make sure ports are assigned to the A/A hosts.
"Selected Language Already in Use."	The selected language has already been selected. No action is required.
"Selection Out of Range."	The selection number is greater than the maximum number of authorized sessions per terminal.
"Session Not Configured."	The specified host session is not configured for that port.
"Source file not found."	Ensure that the correct diskette is in the disk drive.
"Too Many Logical Ports."	The number of logical ports exceeds the maximum number of supported logical ports. Delete the extra logical port numbers.
"Too many open files."	An internal software problem occurred. Contact your Customer Support Specialist.
"Trailer Error."	This is a Printer Authorization Matrix error message.
"Unexecutable Command."	You are trying to use a command that is invalid with the control unit's configuration.
"User Is Not Authorized to Issue This Command."	A privilege-level command was typed at the basic-level LCP menu. Enter privilege-level mode to use a privilege-level command.
"Window size must be between 1 and 7."	Recommended entries are 1 for a PC and 2 for a control unit.
"Wrong diskette; cannot continue keyboard selection."	Ensure that the installed Utility diskette has the appropriate release level.

Put here

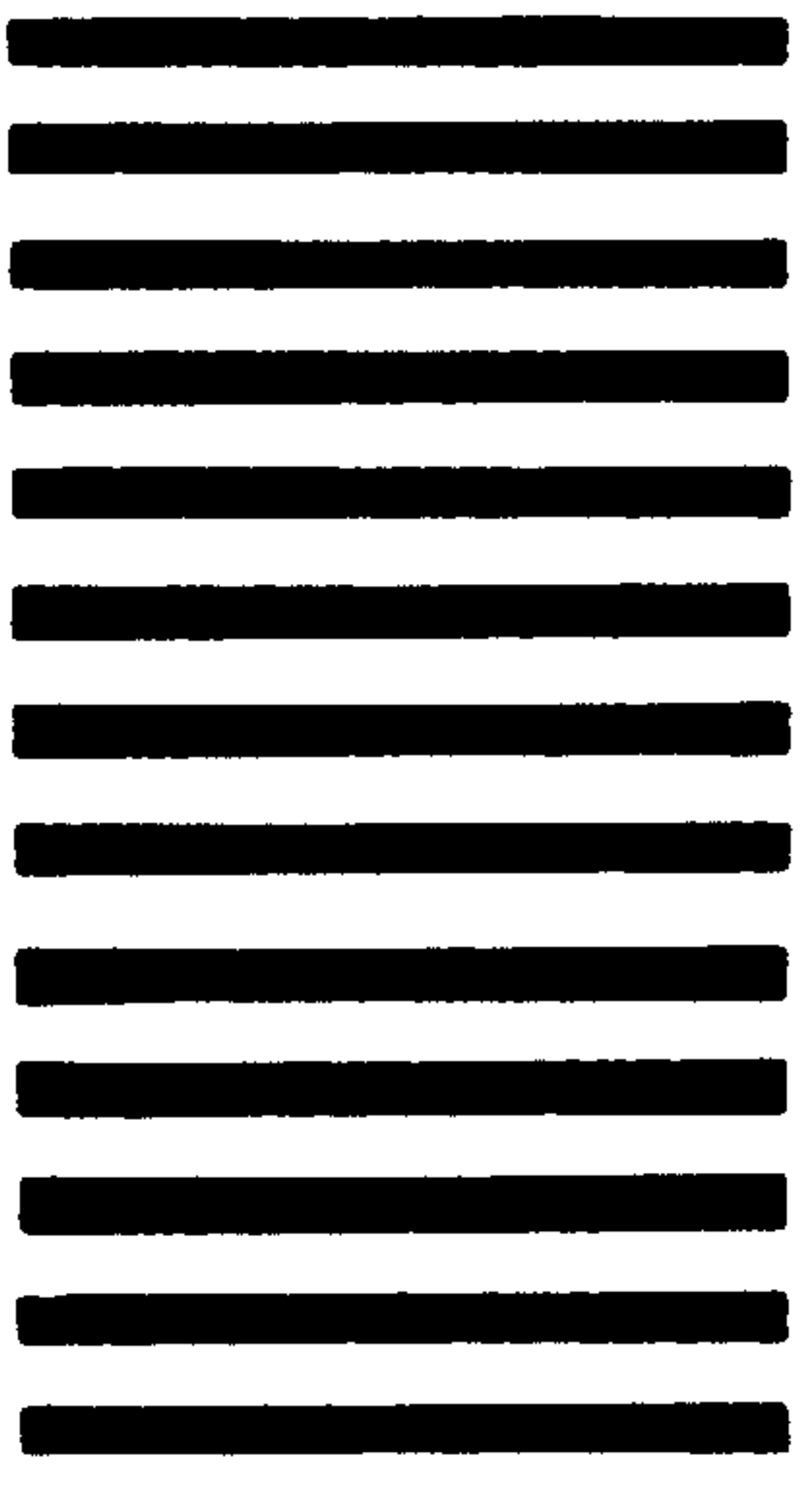
----- Fold and tape ----- Do not staple ----- Fold and tape -----



FIRST CLASS
PERMIT NO. 1725
RALEIGH, NC

BUSINESS REPLY MAIL
FIRST CLASS PERMIT NO. 1725 RALEIGH, NC
POSTAGE WILL BE PAID BY ADDRESSEE

 **MEMOREX TELEX**
3301 Terminal Drive
Raleigh, NC 27604



ATTN: Marketing Communications 0195

----- Fold and tape ----- Do not staple ----- Fold and tape -----

Name: _____

Street Address: _____

City: _____ State: _____ Zip: _____

Company: _____

Dept./Title: _____

Check here if you would like a reply

You can help us provide better publications by giving us your comments on this manual and ways you think we can improve future manuals. Please complete this Reader's Reply Form and drop it in the mail. No postage is necessary if mailed in the United States.

For quickest response, use this form for publication questions or comments only. If you need to order additional manuals or equipment, please contact your sales representative.

How did you use this manual?

<input type="checkbox"/>	As an installation manual
<input type="checkbox"/>	As a problem determination manual
<input type="checkbox"/>	As a teacher's operator text
<input type="checkbox"/>	As a student's operator text
<input type="checkbox"/>	As a self-teaching operator text
<input type="checkbox"/>	As a reference manual
<input type="checkbox"/>	As a buyer's guide
<input type="checkbox"/>	Other

How would you rate this manual on:

	Poor	Fair	Good	Very Good	Excellent
Content					
Clarity					
Organization					
Interest Level					
Usefulness					
Completeness					

ADDITIONAL COMMENTS:

Your specific comments are especially helpful in improving our publications. Please note the actual pages or sections involved, where applicable.



MEMOREX TELEX

3301 Terminal Drive
Raleigh, NC 27604