



# COMMUNICATIONS SYSTEM Release 2

System Manual

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# COMMUNICATIONS SYSTEM Fielease 2 System Mahual



# MERLIN® Plus COMMUNICATIONS SYSTEM Release 2 Customization Chart

# How to Use This CUSTOMIZATION CHART

Follow this chart to perform all of your administration procedures. More detailed instructions are included in Section 5, "Reference," of the MERLIN® Plus System Manual. If you have any problems or questions, please call the AT&T National Service Assistance Center: 1-800-628-2888

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TO ENTER ADMINISTRATION MODE:

TO LEAVE ADMINISTRATION MODE: 3

### BASIC ADMINISTRATION

### NUMBER OF OUTSIDE LINES

DIAL \*4

DIAL one digit for the number of lines (1-8).

TURN power off, wait 10 seconds 1000H Administer TURN power on

SYSTEM RESET

DIAL \* 99198

### DIAL SIGNALS

DIAL [ \* 38 Touch-lone (Ft) \* 39 Rotary

TOUCH Administer

### LONG DISTANCE DIALING

CIAL ( \* 36 Toll profix (0 or f) needed (F) \* 37 Area code only needed

TOUCH Administer

### TRANSFER RETURN INTERNAL

DIAL #2

DIAL, one digit for the number of rings before a frametened call returns to the attendant (0–9) (F = 4 rings)

TOUCH Administer

### HOLD DISCONNECT INTERVAL

DIAL \*69
TOWNE line button
Green light air = tung (400 mass) internal (F).
Green light off = short (50 mass) internal

TOUCH Administer

### GROUP PAGING

TOUCH Auto Intentorm button for diel appropriate code from diel code chart) Green light on = telephone assigned Seren light of = telephone removed

or TOUCH Drop to remove all telephones from a

paging group)

TOUCH Administer

### JACK ASSIGNMENT

### BUSY BUSTER

DIAL # 35

TOUCH Auto Interseen button (or diel intercon number) of jeck (F=jack 16) Green light on = jack assigned Green light on = jeck not assigned

TOUCH Administer

### AUTOMATIC SYSTEM ACCESS

DIAL # 59

TOUCH Auto intercom butten (or dial intercom number) of jack (F - jack 18) Green light on - jack assigned Green light off - jack not elsegned

TOUCH Administer

### CALL REPORT AND CYSTEM FEATURE REPORT

DIAL [ \*82 Call Reports (SMDR) \*85 System Footure Report

TDUCH Auto Mercom butten (or dial intercom number) of sick (F - jock 10) (seen light on - jeck statighted Green light of - jeck not assigned

TOUCH Administer

### LINE ADMINISTRATION

### ASSIGN LINES TO A VOICE TERMINAL

TOUCH Auto Intercom button (or dial intercom

number

TOUCH fine buttons
Green light on - line sessioned
Green light off - line not assigned

OUCH Administer

### BUTTOW - FREE LINE OPERATION

TOUCH Auto Intercom button (or dial intercore.

TOUCH line buttons

Green light on = line assigned Green light of = line not assigned

(or DIAL \* 34 to assign all lines)

DIAL #31 Incoming calls ring #32 Incoming calls don't ring

TOUCH Administer

### AUTOMATIC SYSTEM ACCESS (ASA) FEATURES

### ASSIGN ASA LIME GROUPS

\*51 Cell Forwarding incoming line group \*52 Call Forwarding engines fine group \*54 Remote Line Access incoming

\*50 Direct Extension Dialing Incoming

\* 75 System Answer incoming time group

TOUCH line buttons

Green light on = line assigned Green light off = line not assigned

TOUCH Administer

### ASSIGN ASA RING INTERVALS

DIAL #76

DIAL 1 Direct Extension Disling 2 Call Forwarding 3 Remote Line Access 4 System Answer

DIAL one eight for number of rings before entworing call (0-9) (F+2 rings)

TOUCH Administer

### MODIFY ASA VOICE MESSAGE

DIAL \* 50

TOUCH line button

DLAL telephone number to include in meet

TOUCH Administer

REPEAT above procedure for each line

### ACTIVATE CALL FORWARDING! DIRECT EXTENSION DIALING VOICE MESSAGES

DIAL # 30

DIAL [ 8 Voice message off 1 Voice message on (F) TOUCH Administer

ASSIGN CALL FORWARDING DESTINATION NUMBER

DIAL # 53

DIAL Call Forwarding destination telephone

TOUCH Administer

### ASSIGN SYSTEM ANSWER ALTERNATE ATTENDANT

DIAL \*79

TOUCH Auto Intercom button jor dial intercors

**TOUCH Administer** 

SELECT SYSTEM ANSWER VOICE MESSAGE DIAL \*77

DIAL 0 No voice message 1 "Please Hold" 2 "Please Hold" 2 "Please Hold, your call will be handled momentarity" (P)

TOUCH Administer

### CREATE REMOTE LINE ACCESS PASSW

DIAL \*56

DIAL an intercom number

DIAL three digits (expect 000)

To remove a password: CIAL the intersom number CIAL 000

TOUCH Administer

IDE the T/P switch to P och Administer

IDE the T/P switch to center position

### SYSTEMWIDE OPTIONS



### DISALLOWED LIST ENTRIES

CUAL \* 09

TOUCH two-digit item number (01-20)

To add entry: DIAL the disallowed number (up to 16 digits) TOUCH Administar

remove an ontry TOUCH Administer

### ALLOWED LIST ENTRIES

DIAL three-digit list code ( \* 01- \* 06)

DIAL two-digit item number (01-10)

To add an entry: DIAL the allowed number (up to eight digits)

TOUCH Administer

To remove an entry: TOUCH Drop

**TOUCH Administer** 

### ASSIGN CALL RESTRICTIONS

TOUCH Auto intercom button (or dial intercom

TOUCH Restrict until

DUCH Restrict unit:
Green light on steady — Unrestricted (all calls)
Green light flashing — Toll Restricted (no long
distance calls)

"men light off — Outeard Restricted (no outside calls)

4 Administer

### ASSIGN ALLOWED/DISALLOWED LISTS

DIAL three-digit list code: + 01 - + 98 Allowed list codes + 09 Disallowed list code

DIAL 00

TOUCH Auto Intercom button for dial appropriate

code from dial code chief) Green light on = list assigned Green light off = list not assigned

or TOUCH Contenence to assign the list to all the voice terminals, TOUCH Brop to remove the list from all the voice terminals)

TOUCH Administer

### SYSTEM SPEED DIAL

DIAL code (#60-#69 or #900-#999)

DUAL #88 Account code assignment #92 Restriction override assignment #99 No restriction override assignment DUU, \* to make the number private

DIAL Telephone number Account number **TOUCH Administer** 

### MUSIC VOLUME AND LOUDSPEAKER PAGING



### MUSIC-ON-HOLD VOLUME

\* 12 Off \* 13 Low \* 14 Medium (F) \* 15 High DIAL

TOUCH Administer

### BACKGROUND MUSIC VOLUME

\*16 Off \*17 Low \*18 Medium (7) \*19 High

TOUCH Administer

### CENTRAL OFFICE LINE PAGING ASSIGNMENT

DIAL \* 91

TOUCH the line buttons

Green light on = line assigned Green light off = line not assigned (F)

TOUCH Administer

### REPORT OPTIONS



DIAL 0 No colo (F)
1 Outgoing colo only
2 At calls

TOUCH Administer

### CALL REPORT - MINIMUM CALL DURATION

DIAL \* 83

DIAL \* 84

DIAL one digit for the minimum number of minutes (0-0) (F -1 minute)

TOUCH Administer

## SYSTEM FEATURE REPORT & CALL REPORT

(SMOR) - DATE/TIME

DATE DIAL \* 80

DIAL two digits for the month (\$1-12)

DIAL two digits for the day (21-21) DIAL two digits for the year (00-99)

TOUCH Administer

TIME

DULL

DUAL two digits for the hour (00-22)

DIAL two digits for the minutes (00-59)

**TOUCH Administer** 

### SYSTEM FEATURE REPORT - PRINTOUT

60 System administration report and individual terephone reports.

◆ 61 System administration report only

individual telephone re0004
 10UCH one or more Auto Intercombutoes (or elid intercom numbers)

63 Abort printput and cancel all other report requests

1000× Administer

### **VOICE TERMINAL OPTIONS**



### CENTRAL/250 PROGRAMMING

TOUCH Auto Intercom button (or dist intercom

TOUCH Conterence

PROGRAM relephore OUCH Conference

### VOICE TERMINAL TEMPLATES

DIAL + 10

DIAL 1 clear template 2 cluster template 3 teature template 4 receptionist/secretary template

TOUCH Auto Intercom button (or dial intercom

number).

TOUCH Auto Intercom button (or dial intercom.

TOUCH Copy

TOUCH Auto intercom button (or dial intercom number) of the source phone

TOUCH Advantager

### PROGRAM MODE LOCK

DIAL \*89

TOUCH

Auro Insurcom button for dial the

Auto Intercomputed for clast the appropriate code from the died code chard, or a phone locked Green fight on a phone not hocked (F) Conference - All phones locked (F) Brop - No phones locked

TOUCH Administer

# DIAL CODE CHART

| INTERCOM<br>NUMBER | DIAL | INTERCOM<br>NUMBER | DIAL |
|--------------------|------|--------------------|------|
| 10                 | #22  | 20                 | #03  |
| 11                 | #21  | 21                 | #04  |
| 12                 | #20  | 22                 | #05  |
| 13                 | #19  | 23                 | #06  |
| 14                 | #18  | 24                 | #07  |
| 15                 | #17  | 25                 | #08  |
| 16                 | #16  | 26                 | #09  |
| 17                 | #15  | 27                 | #10  |
| 18                 | #14  | 28                 | #11  |
| 19                 | #13  | 29                 | #12  |

If you do not have an Auto Intercom button for all of the voice terminals in your system, use this dial code chart when instructed to do so in these administration procedures. 999-503-148

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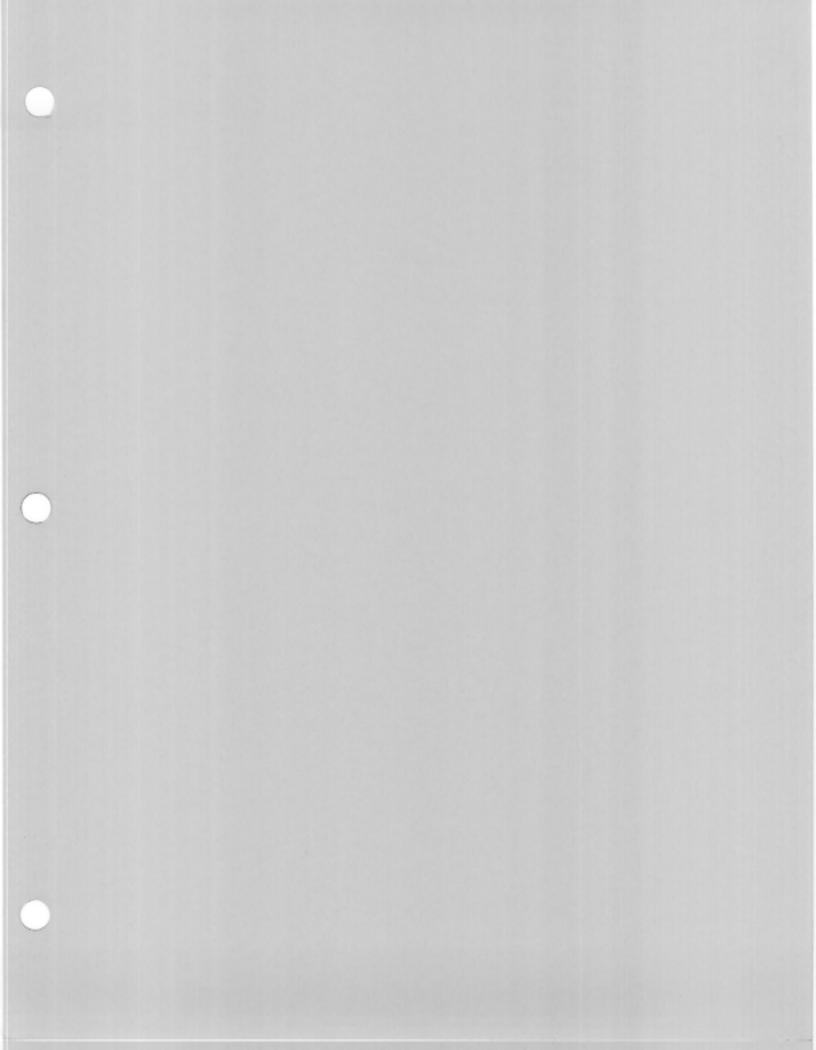
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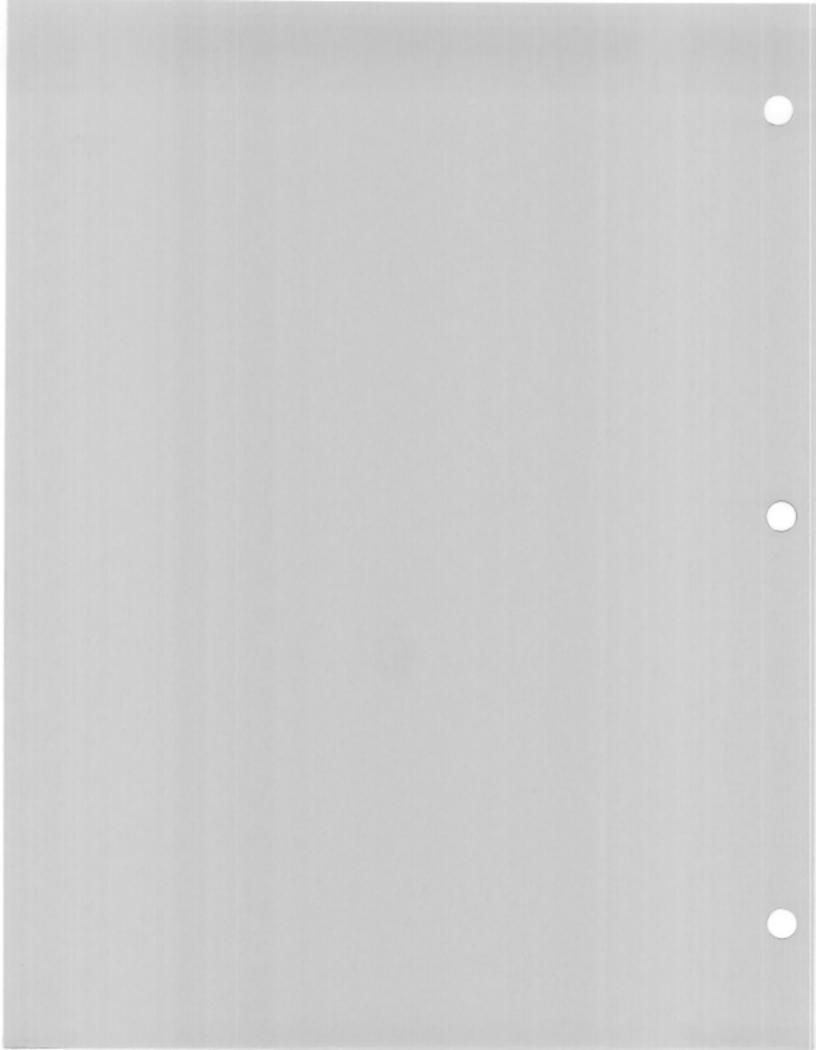
### flow to Use This Manual

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### Fire MERLIN Plus Communications System

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### IF YOU'RE IN A HURRY

If you need to make and receive calls the moment your MERLIN' Plus system is installed, and before you've had time to learn how to implement the entire system, this "Quick Start" information is for you. Follow this short procedure and in a few minutes you'll hear the familiar sound of a dial tone, enabling you to make and receive calls, so that your business can continue uninterrupted while the rest of the system is being planned.

- Connect the system to a grounded ac power outlet.
- Connect the system to the Central Office line in Jack A.
- Plug a voice terminal into Intercom # 10.
- Turn on the system power switch.

programming procedures. Use them when won a set to read a particular

You now can make unrestricted calls on Touch-Tone lines only from the voice terminal.

### What's in This Manual

You'll find the information in this MERLIN Plus Communications System manual conveniently divided into eight sections, as described below. You'll also find ten copies of the MERLIN Plus System User's Guide enclosed.

### SECTION 1. INTRODUCTION

This section tells you what's in this manual and how to use it. It also offers a brief introduction to the system's control unit and the voice terminals (telephones).

### SECTION 2. PLANNING THE SYSTEM

Use the information in this section to make some key decisions about how you want the system to operate. This section includes planning forms to record your decisions. If someone else will be system administrator, have that person fill out the planning forms.

### SECTION 3. ADMINISTERING THE SYSTEM

This section tells you how to use the information on the planning forms to customize the system to meet your business needs. If someone else will be system administrator, have that person administer the system following the steps in this section.

### SECTION 4. USING THE ATTENDANT CONSOLE

If your system will have an attendant manage incoming call traffic, that person can find helpful information in this section on using the administrator/attendant telephone.

### SECTION 5. REFERENCE

This section contains a detailed discussion of every component, option, and feature in the MERLIN Plus system. The entries are organized alphabetically to help you find the information you need quickly. As you become familiar with the system, you'll probably go to this section first when you want to change a system setting or a voice terminal feature, or when you simply want to find out more about some aspect of the system.

### SECTION 6. QUICK REFERENCE GUIDES

The guides in this section offer quick access to administration and programming procedures. Use them when you want to find a particular procedure fast.

### SECTION 7. TROUBLESHOOTING THE SYSTEM

The tables in this section can help you isolate and solve any of the technical problems that may cause your system to malfunction.

### SECTION 8. INSTALLATION

This is a technical reference section. It should answer any questions an installer or technician may have about MERLIN Plus system wiring and installation requirements.

### USER'S GUIDE

This guide is a handy reference for anyone who uses a MERLIN Plus system voice terminal on the job. Give one to everyone in your business who uses a voice terminal.

### CF/RLA CARD

This card should be given to anyone in your company who works at home or travels frequently but still needs to make or receive business calls. It contains instructions for using Call Forwarding and Remote Line Access, convenient features for people who spend a lot of time out of the office. (Refer to Section 5, "Reference," for more details about these two features.)

### DOCUMENT LIST

The following list of documents can be ordered for the MERLIN Plus system:

| Document                     | Order No.   |
|------------------------------|-------------|
| System Manual                | 999-507-148 |
| System Planner               | 999-501-141 |
| CF/RLA Card                  | 999-502-148 |
| Training Manual              | 999-505-148 |
| Installation Manual          | 518-600-008 |
| User's Guide                 | 999-500-148 |
| Customization Chart          | 999-503-148 |
| Customer Training Video Tape | 775-358     |

### **How to Use This Manual**

How you should use this manual at any particular time depends on what you want to do, as the following information suggests.

### ADMINISTERING A NEW SYSTEM?

Use the information in Section 2, "Planning the System," to decide which options and f. atures you want for your system, then follow the instructions in Section 3, "Administering the System," and in Section 5, "Reference," to set up the system with the options and features you've selected.

### NEED TO USE THE PHONE BEFORE THE SYSTEM IS RUNNING?

Refer to the "Quick Start Procedure" at the beginning of this section.

### MAKING CHANGES TO A RUNNING SYSTEM?

Change the planning forms to reflect the changes you want to make, then see the relevant entries in Section 5, "Reference," and Section 6, "Quick Reference Guides," to make the changes.

### MANAGING INCOMING CALL TRAFFIC AS SYSTEM ATTENDANT?

See Section 4, "Using the Attendant Console," for information on how to use the attendant's telephone to handle incoming calls.

# USING A VOICE TERMINAL FOR THE FIRST TIME?

See the relevant entries in Section 5, "Reference," and the Quick Reference Guide to Voice Terminal Features in Section 6—and keep the MERLIN Plus System User's Guide handy.

# HAVING TROUBLE WITH THE SYSTEM?

Find the symptom in Section 7, "Troubleshooting," then follow the suggestions for solving the problem.

### The MERLIN Plus Communications System

The basic MERLIN Plus system supports up to four outside telephone lines and ten voice terminals. We use the term "voice terminal" instead of "telephone" because a basic telephone only lets you make and receive calls, while a voice terminal can be programmed to do a whole lot more, which you will soon discover as you read this manual.

To accommodate your growing communications needs, the system expands easily and economically to support up to eight outside lines and 20 voice terminals. If your business eventually outgrows even the fully expanded MERLIN Plus system, you can protect your investment in voice terminals, accessory equipment, and training time with the purchase of a larger MERLIN system.

The paragraphs that follow offer a brief introduction to the system's control unit and voice terminals. The optional equipment you can add to your system is described under the heading "Accessory Equipment" in Section 5,

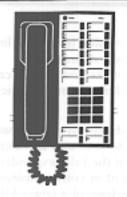
### THE CONTROL UNIT

The control unit is the system's brain. It manages all incoming, outgoing, and intercom call traffic. It makes all of the system's decisions and controls all of the system's responses. For an illustration of the control unit with its major components labeled, see "Administration Preview" in Section 3, \*Administering the System.\*

### THE VOICE TERMINALS

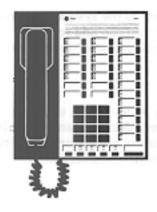
A voice terminal is a MERLIN system telephone that provides basic telephone functions and allows you to take advantage of the special MERLIN system features. All voice terminals have buttons for fixed features such as Conference, Drop, Transfer, and Hold. They differ from one another in the number of buttons above and to the right of the dial pad that can be used for outside lines and programmable features. The 10-button voice terminal with the "HFAI" designation has the hands-free intercom feature. Voice terminals with "SP" or "BIS" designations also have the hands-free answer on intercom feature and a built-in speakerphone. For more information on using basic telephones with the MERLIN Plus system, see "Basic Telephones" in Section 5 "References." Your MERLIN Plus system works best with the following voice terminals:

- BIS-10 Voice Terminal
- BIS-22 Voice Terminal
- BIS-34 Voice Terminal
- BIS-34D Voice Terminal with Display
- 5-Button Voice Terminal
- 10-Button Voice Terminal
- 10-Button Hands-Free Answer on Intercom (HFAI-10) Voice Terminal
- 34-Button Voice Terminal
- 34-Button (SP-34) Voice Terminal with Speakerphone
- 34-Button (SP-34D) Voice Terminal with Speakerphone and Display
- 34-Button Deluxe Voice Terminal

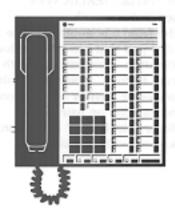


### BIS-10, BIS-22, BIS-34, and BIS-34D Voice Terminals

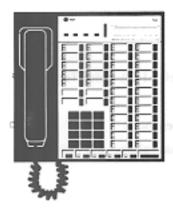
The BIS-10 Voice Terminal allows you to make and receive outside and intercom calls without lifting the handset. There are two columns of five buttons above the dial pad for incoming lines, auto intercom, and programmable features. The dual lights next to each button indicate the current status of selected features and lines.



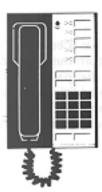
The BIS-22 Voice Terminal allows you to make and receive outside and intercom calls without lifting the handset. There are two columns of five buttons above the dial pad and one column of 12 buttons to the right of the dial pad, each with dual lights that indicate the current status of selected features and lines. You can use the buttons above the dial pad for incoming lines, auto intercom, and programmable features. You can also use the 12 buttons to the right of the dial pad for programmable features.



The BIS-34 Voice Terminal allows you to make and receive outside and intercom calls without lifting the handset. There are two columns of five buttons above the dial pad for outside lines, auto intercom, and programmable features and two columns of 12 buttons to the right for programmable features. The dual lights next to each button indicate the status of the selected features and lines.

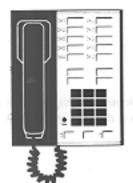


The BIS-34D Voice Terminal with Display allows you to make and receive outside and intercom calls without lifting the handset. There are two columns of five buttons above the dial pad for incoming lines, auto intercom, and programmable features and two columns of 12 buttons to the right for programmable features. The dual lights next to each button indicate the status of the selected features and lines. The display, located in the top portion of the voice terminal, offers a variety of visual aids for most features.



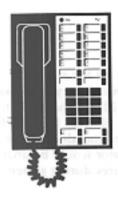
### 5-Button Voice Terminal

The 5-button voice terminal has one column of five buttons (an Intercom button and four additional buttons above the dial pad) that you can use for outside lines and/or programmable features.

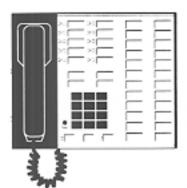


### 10-Button Voice Terminals

The 10-Button Voice Terminal has two columns of five buttons (an Intercom button and nine additional buttons above the dial pad) for outside lines and programmable features.

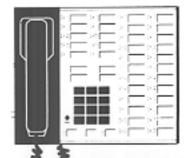


The 10-Button (HFAI-10) Voice Terminal has a built-in speaker that allows you to answer and make intercom calls without lifting the handset. It also has two columns of five buttons (an Intercom button and nine additional buttons above the dial pad) for outside lines and programmable features.



### 34-Button Voice Terminals

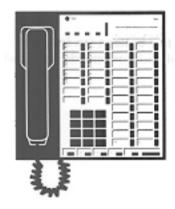
The 34-Button Voice Terminal is a basic voice terminal that provides two columns of five buttons above the dial pad for outside lines and programmable features. The two columns of 12 buttons to the right of the dial pad can be used for Auto Intercom buttons and other programmable features that do not require lights.



The 34-Button Deluxe Voice Terminal has two columns of five buttons located above the dial pad and two columns of 12 buttons to the right of the dial pad. You can use the buttons above the dial pad for lines and programmable features. You can use the 24 buttons, with two lights per button, located to the right of the dial pad for programmable features.



The 34-Button (SP-34) Voice Terminal with Speakerphone has a built-in speakerphone that allows you to initiate and answer both outside and intercom calls without using the handset. Above the dial pad are two columns of five buttons (an Intercom button and nine additional buttons) for outside lines and Auto Intercom buttons and programmable features. The two columns of 12 buttons located to the right of the dial pad can be used for programmable features that do not require lights.



The 34-Button (SP-34D) Voice Terminal with Speakerphone and Display has all the features of the SP-34 voice terminal combined with a display in the top portion.

### Summary

Voice terminal models BIS-34 and BIS-34D are ideal for the system administrator/attendant console because their features allow you to easily use all the system's features. You can also use the BIS-22 and the 34-Button Deluxe models as the console. However, the SP-34, SP-34D, BIS-10, HFAI-10, 10-Button, and 5-Button voice terminals are not recommended for use as an administer attendant console because the administrator would be unable to see which buttons were being assigned special features during system administration.



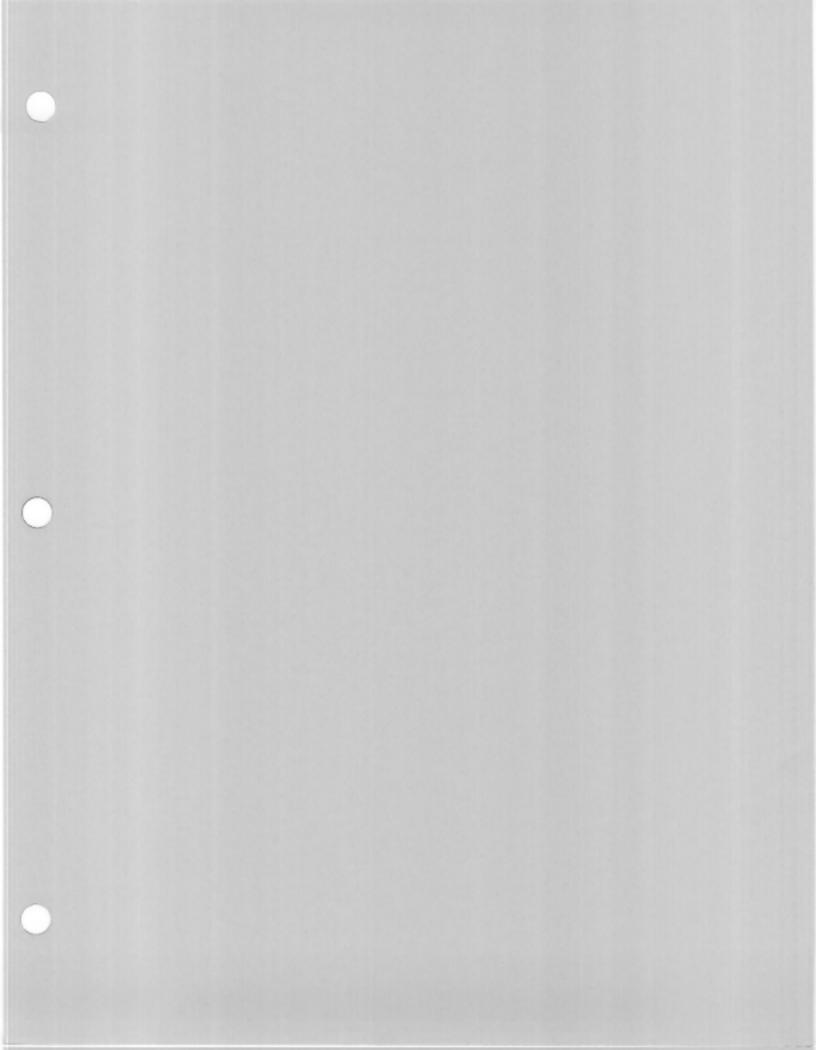
# Section 2: Planning the System

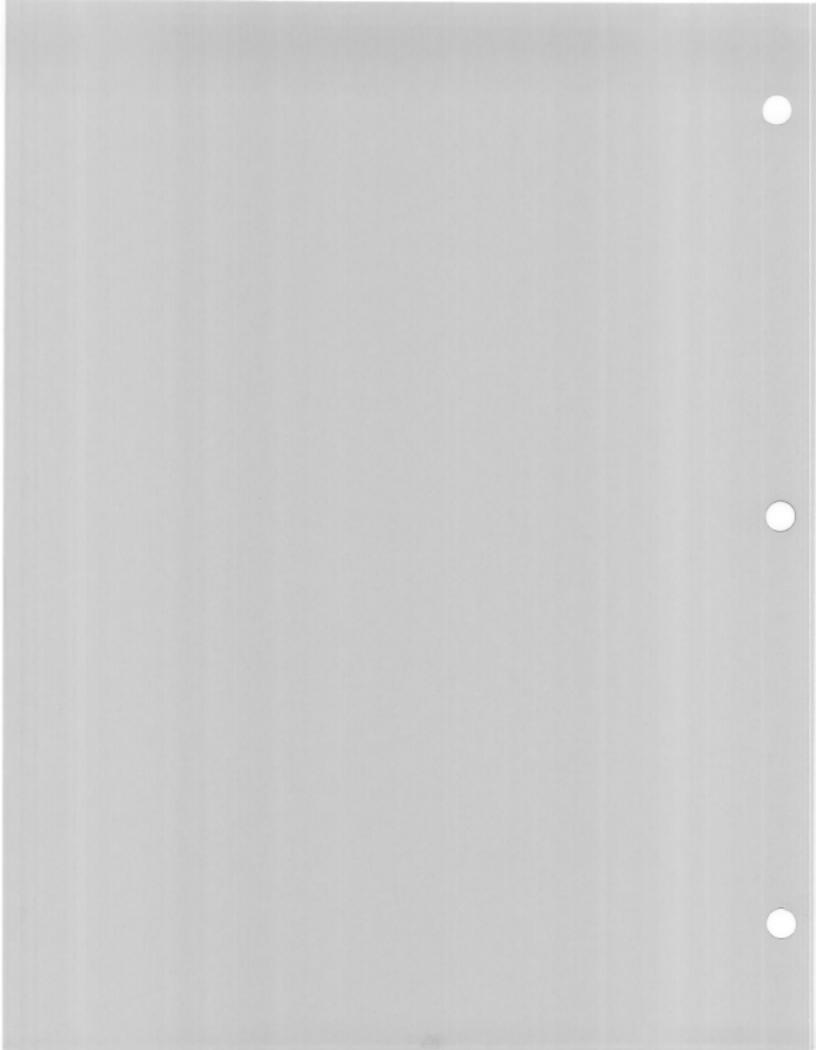
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# Call Restrictions Form System Speed Dial Form

2-29

2.33





You can begin making and receiving calls as soon as your MERLIN® Plus Communications System is installed. But to take full advantage of the system's power, you should customize it to fit your business needs. Customizing the system is called administering the system throughout this minual.

Administering the system involves entering information into the system's memory about how you want the system to operate. You enter this information by touching buttons and dialing numbers on the telephone referred to in this manual as the administrator/attendant console.

This section of the manual helps you decide what information you want to enter into the system's memory and shows you how to record that information on forms. A checklist of the forms appears below. You can find copies at the end of this section. Remove them now, make a photocopy of each, and put the originals back in this binder. Keep the copies on hand so you can fill them out as you plan your system.

|   | System Configuration Form |
|---|---------------------------|
|   | Line Assignments Form     |
|   | Call Restrictions Forms   |
| 0 | System Speed Dial Forms   |

NOTE: In this section of the manual, the information that appears
before the boxes helps you make important decisions about your
system. Then the instructions in the boxes tell you where to enter
these decisions on the forms.

### System Configuration Form

Use the System Contiguration Form to record information about the following:

- Dial Signals
- Long Distance Dialing
- Transfer Return Interval
- Call Report
- Music-on-Hold
- Background Music
- Outside Telephone Lines
- Voice Terminals

The following information should help you make the appropriate entries for your system on the System Configuration Form.

### DIAL SIGNALS

The MERLIN Plus system comes set to generate Touch-Tones when you dial an outside call. This means that if one or more of your outside telephone lines transmits rotary (pulse) signals, you have to administer the system for rotary dialing. Otherwise you won't be able to dial out over the rotary lines.

NOTE: If some of your outside lines are Touch-Tone and some rotary, you may want to ask your local telephone company to replace the rotary lines with Touch-Tone lines.

Under "Dial Signals" on the form . . .

Check the box next to "Touch-Tone" if all the outside telephone lines connected to your system are Touch-Tone lines.

Check the box next to "Rotary (Pulse)" if one or more of the outside lines connected to your system are rotary lines.

### LONG DISTANCE DIALING

Under "Long Distance Dialing" . . .

Check the box next to 'Toll-Prefix' if you have to dial a toll prefix (1 or 0) before the area code when you dial the telephone number for a long distance call.

Check the box next to 'Area Code Only' if you do not have to dial a toll prefix (1 or 0) before the area code when you dial the telephone number for a long distance call.

### TRANSFER RETURN INTERVAL

Initially, when someone in the MERLIN Plus system transfers a call and it is not answered in four rings, the call returns to the sender. You can change that setting so that calls don't return, or return after up to nine rings.

Under "Transfer Return Interval" . . .

Check "No Return" if you don't want transferred calls to return to the originator, if the call is unanswered.

Check "\_\_\_\_\_ Rings" then fill in a number between 1 and 9, depending on the number of times you want a transferred call to ring before it's returned to the originator.

The following three features, Call Report, Music-on-Hold, and Background Music require optional equipment. If your business is not using these features, skip these discussions and continue with "Outside Telephone Lines."

### CALL REPORT

Call Report, also called Station Message Detail Recording (SMDR), enables businesses to keep records of incoming and outgoing calls. This optional feature requires a MERLIN PLUS system data collector and an AT&T 475 printer or its equivalent.

The Call Report feature gives you information in a report that is printed automatically as calls occur. The report includes the date and time of each call, its duration, the number dialed (if the call is outgoing), and the line and voice terminal on which the call is made. An account code is printed if the user enters one when the call is made. (See "Account Code Entry" in Section 5, "Reference.")

During system administration you can set the system to generate call records for outgoing calls only or for both incoming and outgoing calls. The minimum call duration, when calls begin to be recorded, can be set as short as 10 seconds or as long as nine minutes. The default setting is 0 which represents ten seconds— the time it takes to connect a call and to avoid recording busy or unanswered calls. The other durations that can be selected are given in minutes (1 to 9).

Under "Call Report". . .

Check "Outgoing Calls Only" if you want only outgoing calls reported.

Check "Incoming and Outgoing Calls" if you want both incoming and outgoing calls reported.

Write in the time you've selected as the minimum length for a call to be reported (0-9).

### MUSIC-ON-HOLD

If you have an optional audio system, you can connect it with an RCA-type phonograph jack to the Music-on-Hold jack provided at the top of the Control Unit. Then when callers are placed on hold, they hear background music while they're waiting.

You can control the music volume or turn off the music from the administrator/attendant console.

Under "Music-on-Hold" . . .

If you have the optional audio equipment connected to the Music-on-Hold jack, check that volume selection you desire.

### BACKGROUND MUSIC

If you have an optional audio source connected to the Music-on-Hold jack and an optional loudspeaker paging system connected to the Paging jack or a CO line jack, you can provide background music throughout your building.

You can control the background music volume either at the audio source or at the administrator/attendant console.

Under "Background Music" . . .

If you want to adjust the volume of the background music at the administrator/attendant console check that volume selection you desire.

### OUTSIDE TELEPHONE LINES

Your local telephone company gives you the telephone numbers for your outside lines. The control unit jacks where the outside lines connect to the system are labeled alphabetically: A through D for a system with four or fewer outside lines, and A through H for a system with five to eight outside

To simplify system administration, plan to assign your outside lines to an unbroken sequence of jacks beginning with jack A. Begin with the lines for your local published telephone numbers. Group special line types such as WATS lines together in the sequence, and place any personal lines at the end of the sequence.

Under "Outside Telephone Lines" . . .

Write in the telephone number and the line type for each of your outside lines next to the appropriate letter.

If you have an optional loudspeaker paging system that you are planning to connect to a CO line instead of the Paging jack on the Control Unit, write "CO Paging" under line type for the CO line you plan to use for

### HOLD DISCONNECT INTERVAL

The MERLIN Plus system comes set for a long (450 milliseconds) hold disconnect interval because most telephone company switching systems use the long interval. If your telephone company uses a short (50 millisecond) interval, you'll need to reset your system to prevent calls from remaining on hold after callers have hung up. Refer to "Hold Disconnect Interval" in Section 5, "Reference," for more information on how to detect the hold disconnect interval.

Under "Hold Disconnect Interval" on the "Outside Telephone Lines" form 1.1. sentine ASA sett not 81

Check the column under "Long" if you want the 450 millisecond Hold Disconnect Interval.

Check the column under "Short" if you want the 50 millisecond Hold Disconnect Interval.

### VOICE TERMINALS

Each MERLIN Plus system voice terminal (telephone) in your system will have a 2-digit intercom number corresponding to the number of the voice terminal jack on the control unit where the voice terminal connects to the system. The valid intercom numbers for a control unit with 10 voice terminal jacks are 10 through 19. For a control unit with 20 voice terminal jacks, the valid intercom numbers are 10 through 29. The jack locations are illustrated on a label to the left of the modules in the control unit.

### Intercom Number 10

By design, the intercom 10 position is the primary call-handling position in the system, and it is also the system administration point. If your system will have an attendant, you should assign intercom number 10 to the voice terminal at the system attendant's location. For complete system administration, the voice terminal assigned intercom 10 should be either a BIS-22 or a BIS-34 model. If you have 10 or fewer voice terminals, you may prefer to use a BIS-22 voice terminal.

Under "Voice Terminals" . . .

Write in the name of the system attendant/administrator and that person's location on the line next to number 10.

### Intercom Number 18

Notice on the form that "ASA" appears in the "Name" column next to intercom number 18. ASA stands for Automatic System Access, a group of features that includes Call Forwarding, Direct Extension Dialing, System Answer, and Remote Line Access. These features allow you to take advantage of the economy and efficiency of your MERLIN Plus system and its long-distance service lines when you're away from the office on business, or even when you're at home.

Activation of the ASA features requires a dedicated voice terminal jack on the control unit. At startup, the system automatically reserves jack (intercom number) 18 for the ASA features. But you can choose another voice terminal jack for ASA during system administration, or you may decide not to use any of the ASA features and assign intercom number 18 to a voice terminal. (To find out more about the Automatic System Access features- Call Forwarding, Direct Extension Dialing, System Answer, and Remote Line Access—see the entries for them in Section 5, "Reference.")

Under "Voice Terminals"

Do not write in a name next to intercom number 18 if you plan to use any of the Automatic System Access features (unless you plan to assign an intercom number other than 18 to ASA during system administration).

Cross out "(ASA)" next to intercom number 18 if you do not plan to use any of the ASA features or you are assigning the ASA features to a different intercom number. You can then treat intercom number 18 just like any other intercom number as you assign them. If you are assigning the ASA features to a different intercom number, write "ASA" next to the intercom number you plan to use instead of intercom number 18.

### Intercom Number 19

Notice on the form that "BB" and "Reports" appear in parentheses in the "Name" column next to intercom number 19. The Busy Buster feature automatically redials the last number you dialed up to 15 times (at 30 second intervals) and signals you if and when the line begins to ring.

Operation of the BB feature requires a dedicated voice terminal jack on the control unit. At startup, the system automatically reserves jack (intercom number) 19 for Busy Buster. You can choose another voice terminal jack for Busy Buster during system administration, or you may choose not to use the BB feature and assign intercom number 19 to a voice terminal. (For more information on Busy Buster, see the entry for "Busy Buster" in Section 5, "Reference.")

Under "Voice Terminals" . . .

Do not write in a name next to intercom number 19 if you plan to use the Busy Buster feature.

Cross out "BB" next to intercom number 19 if you plan to deactivate Busy Buster during system administration or if you plan to assign it to a different intercom number. (Intercom number 19 will still be reserved for the data collector and printer which are used to print reports.) You can then treat intercom number 19 just like any other intercom number when you assign intercom numbers to voice terminals at the appropriate point in this planning sequence. If you are assigning BB to a different intercomnumber, write BB next to the intercom number you plan to use instead of intercom number 19.

Notice that "Reports" also appears in parentheses in the "Name" column next to intercom 19 on the form. If your system has the Call Report option, intercom 19 is automatically reserved for the data collector and printer required to print this report. If your system also has BB, both features can share the same port with the use of the adapter supplied with the data collector. You can designate an intercom number other than 19 for the Call Report or System Feature Report equipment when you administer the system, but you cannot assign both the Call Report and System Feature Report equipment and a voice terminal to the same intercom number. If you change the voice terminal jack assignment for the data collector and printer, you should administer the new jack assignment for both report features. (For more information on the Call Report and System Feature Report options and equipment, see the appropriate entries in Section 5, "Reference.")

Under "Voice Terminals" . .

Do not write in a name next to intercom number 19 if your system has the Call Report and/or System Feature Report option (unless you plan to assign an intercom number other than 19 to the Call Report or System Feature Report equipment when you administer the system).

Cross out "(Reports)" next to intercom 19 if your system does not have the Call Report or the System Feature Report option or if you want to assign them to a different intercom number. Then you can treat intercom 19 just like any other intercom number as you assign intercom numbers below. If you are assigning Reports to a different intercom number, write Reports next to the intercom number you plan to use instead of intercom number 19.

### Intercom Numbers 11 through 29

To simplify system administration, you should assign consecutive intercom numbers, beginning with 11, to the remaining voice terminals in your system. (As explained earlier, intercom number 10 goes to the administrator/attendant voice terminal, and intercom numbers 18 and 19 are reserved for system features unless reassigned.)

If you are using the ASA feature, Direct Extension Dialing, you can assign an alternate attendant to handle returning DXD calls that are busy, misdialed, or unanswered. All other calls are directed to the main attendant. For more information, see "Alternate Attendant" in Section 5, "Reference."

Under "Voice Terminals" . . .

Next to intercom numbers that are as yet unassigned, write in the names and work locations of the people to be assigned voice terminals.

If assigning an alternate attendant to handle returning Direct Extension Dialing calls, write "Alt. Attendant" and the name of the person next to the appropriate intercom number.

### Paging Groups

The MERLIN Plus system lets you page the people in your business through the speakers on their voice terminals. You don't need an external paging system for this feature.

The system automatically assigns all voice terminals to a single paging group,

called the Page-All Group. You can't change the makeup of the Page-All Group. (See the "Group Page" entry in Section 5, "Reference," for more information on the Page-All feature.) The system also assigns intercoms 10 through 19 to Paging Group 1 and intercoms 20 through 29 to Paging Group 2. You can keep these groups as they are, or you can change the makeup of Paging Groups 1 and 2 during system administration to fit the needs of your business.

You can assign as few or as many voice terminals as you want to Groups 1 and 2. You can also assign the same voice terminal to both groups.

Under "Paging Groups"

Check the appropriate column(s) next to the intercom number, name, and location of each person to indicate the Paging Group(s) you plan to assign the person to.

### Templates

There are four voice terminal templates designed to make administration of voice terminal features easier. The four templates are the Clear Template, Dialer Template, Feature Template, and the Receptionist/Secretary Template.

The Clear Template is used to erase previous voice terminal features so that new features can be assigned. The Dialer Template is for personnel who do not require special phone features and aren't likely to need to make toll calls. The Feature Template is for managers and owners who need unrestricted phone use along with special additional features. The Receptionist/Secretary Template is for receptionists, secretaries, and backup call handlers who process several calls. See "Voice Terminal Templates" in Section 5, Reference\* for more details.

Under "Template" on the "Voice Terminal" form . . .

Write a "1" if you want to assign the Clear Template to a voice terminal and erase any features currently assigned to that voice terminal.

Write a "2" if you want to assign the Dialer Template to a voice terminal.

Write a "3" if you want to assign the Feature Template to a voice terminal.

Write a "4" if you want to assign the Secretary/Receptionist Template to a voice terminal.

### PROGRAM MODE LOCK

The Program Mode Lock feature allows you to lock specified voice terminals so that individuals cannot change the features assigned to their voice terminals.

Under "Lock" on the "Voice Terminals" form . . .

Put a check mark next to each voice terminal you want to assign Program Mode Lock.

You should now have a completed System Configuration Form.

### Line Assignments Form

### NAME AND INTERCOM NUMBER

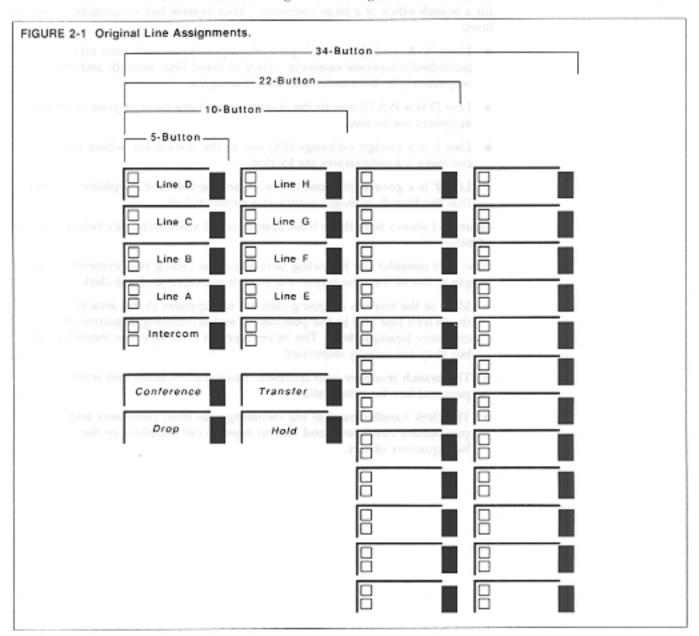
You can use the information already entered on your System Configuration Form to complete this part of the Line Assignments Form.

In the "Name" column on the form . . .

Write the names of the people in your business next to their intercom numbers.

### LINE ASSIGNMENTS FOR VOICE TERMINALS

When your system is first installed all your outside telephone lines appear on the same buttons on every voice terminal in the system. These are the voice terminals' original line assignments. Figure 2-1 shows the original line assignments for 5-, 10-, 22-, and 34-button voice terminals. A voice terminal retains its original line assignments until someone administers it differently.



MERLIN Plus system line administration offers you these options:

- Customize the line assignments on some or all of your voice terminals.
- Keep the original line assignments on some or all of your voice terminals.

The following paragraphs offer guidelines for choosing a line assignment option for each voice terminal and recording your choices on the form.

### Customized Line Assignments

As you decide whether to customize the line assignments to one or more voice terminals, review your business calling patterns and each person's telephoning responsibilities. You may find that customizing line assignments can help you control costs and increase the efficiency of your communications system.

Let's say, for example, that you are the MERLIN Plus system administrator for a branch office of a large company. Your system has six outside telephone lines:

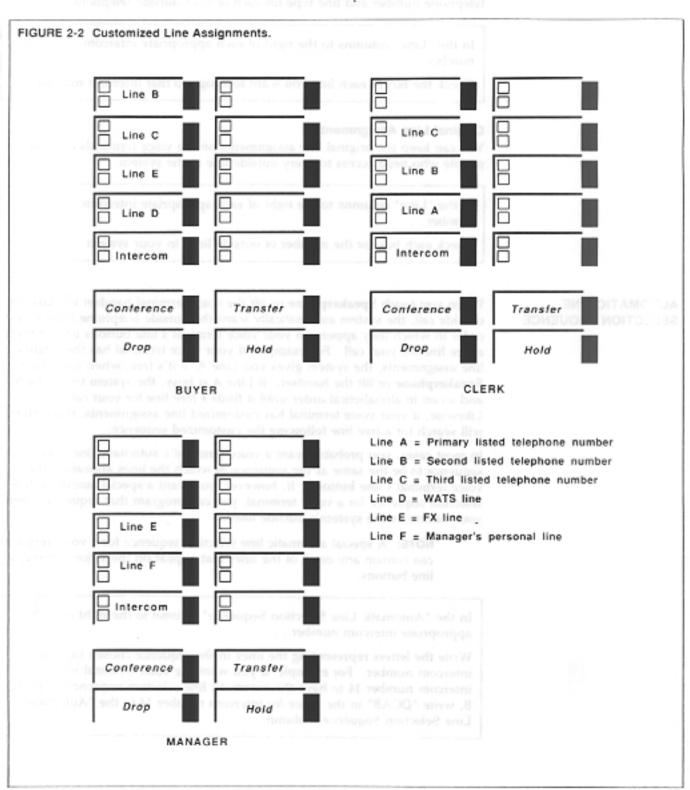
- Lines A, B, and C are local, general purpose lines with your office's published telephone numbers. They're listed first, second, and third respectively in directories and advertisements.
- Line D is a WATS line to the distant area where most of your company's suppliers are located.
- Line E is a foreign exchange (FX) line to the distant city where the company's headquarters are located.
- Line F is a general purpose line with an unpublished telephone number that the branch manager wants as a personal line.

Figure 2-1 shows how these lines appear on all voice terminals before any line administration.

Now let's consider the following facts about the calling requirements of three people in the office: the buyer, the branch manager, and the clerk.

- Most of the buyer's outgoing calls are to suppliers in the area served by the WATS line and to the purchasing and accounting departments at company headquarters. The buyer receives relatively few incoming calls, but they are usually important.
- The branch manager calls company headquarters often and wants a personal line for other calls.
- · The clerk handles most of the incoming calls from customers and prospective customers, and has no need to call suppliers or the headquarters offices.

Figure 2-2 shows how you might customize the line assignments on the buyer's, the manager's, and the clerk's voice terminals to best meet their individual needs and responsibilities.



Review the responsibilities of the people in your business and the special characteristics of your outside lines. Then decide which, if any, should have customized line assignments. (Your System Configuration Form shows the telephone number and line type for each of your outside telephone lines.)

In the 'Line' columns to the right of each appropriate intercomnumber...

Check the box of each line you want to assign to that intercom number.

## Original Line Assignments

You can keep the original line assignments on the voice terminals of those people who need access to every outside line in the system.

In the 'Line' columns to the right of each appropriate intercom

Check each box for the number of outside lines in your system.

## AUTOMATIC LINE SELECTION SEQUENCE

When you touch Speakerphone or lift the voice terminal handset to make an outside call, the system automatically scans the outside telephone lines in the order in which they appear on your voice terminal's line buttons until it finds a free line for your call. For example, if your voice terminal has the original line assignments, the system gives you Line A, if it's free, when you touch Speakerphone or lift the handset. If Line A is busy, the system tries Line B, and so on in alphabetical order until it finds a free line for your call. Likewise, if your voice terminal has customized line assignments, the system will search for a free line following the customized sequence.

In most cases, you probably want a voice terminal's automatic line selection sequence to be the same as the sequence in which the lines appear on the voice terminal's line buttons. If, however, you want a special automatic line selection sequence for a voice terminal, you can program that sequence when you administer the system's outside lines.

NOTE: A special automatic line selection sequence for a voice terminal can contain any or all of the lines that appear on the voice terminal's line buttons.

In the "Automatic Line Selection Sequence" column to the right of each appropriate intercom number . . .

Write the letters representing the lines in the sequence chosen for that intercom number. For example, if you want the voice terminal with intercom number 14 to have the automatic line selection sequence D, C, A, B, write "DCAB" in the space for intercom number 14 in the "Automatic Line Selection Sequence" column.

## BUTTON-FREE LINE OPERATION

You can use this option to assign outside lines to a voice terminal without assigning them to specific line buttons. This feature is useful for 5-Button and 10-Button voice terminals so that buttons are available for programmable features.

You can also select the immediate ring or no ring option with Button-Free Line Operation. The no ring option is often appropriate for voice terminals located in public places, such as lobbies.

## Immediate Ring

Those people with primary responsibility for answering calls coming in on a shared line should have that line administered for immediate ring.

## No Ring

For voice terminals located in public places, such as lobbies and conference rooms, the no ring option may be appropriate.

In each line box on the Line Assignments Form that contains a check mark . . .

Write an "R", or "N" from the following list according to the appropriate ringing option for each Button-Free line.

R = Immediate Ring/Button-Free

N = No Ring/Button-Free

## LINE ASSIGNMENTS FOR ASA FEATURES

Four ASA features require the assignment of at least one incoming line on which you want to use the feature. These features are: Call Forwarding (CF), Direct Extension Dialing (DXD), Remote Line Access (RLA), and System Answer (SA). Call Forwarding also requires the assignment of at least one outgoing line.

#### Call Forwarding (CF)

This ASA feature connects incoming calls on assigned lines to the Voice Synthesis Processor (VSP) so that callers hear a prerecorded message before calls are forwarded to the designated number. The CF feature requires the assignment of at least one incoming line and one outgoing line. They cannot be the same line.

In the "CF" row under the "Line Assignments for ASA Features" . . .

Write an "I" in the column of the line(s) where incoming calls are being forwarded.

Write an "O" in the column of the line where you want to send the outgoing forwarded calls.

The system is factory set to answer CF calls after two rings. You can change the number of rings from 0 to 9. If the number of rings is set to 0, the voice terminal will not ring, and calls will be forwarded immediately.

Under "Ring Interval" in the "CF" row" . . .

Write the number of rings (0-9) before incoming calls will be answered by the VSP and forwarded.

When in CF mode, callers hear the message:

"Your call is being forwarded. Please hold."

You can modify this message to include the incoming phone number:

"You have reached [number]. Your call is being forwarded.

Please hold."

You can modify the message for all incoming CF lines or just for some of the incoming CF lines. You can also turn off the message so that calls are forwarded immediately without notifying the caller.

Under "Modify Message" in the row for "CF" . . .

Write the incoming phone number if you want it added to the VSP message, or write a "0" if you want to turn off the VSP message.

### Direct Extension Dialing (DXD)

This ASA feature allows incoming callers using Touch-Tone phones to direct their calls to specific extensions. Direct Extension Dialing can be assigned to one or more lines so that incoming calls are answered by the Voice Synthesis Processor (VSP) which prompts callers to dial the desired extension number.

In the "DXD" row under "Line Assignments for ASA Features" . . .

Write an "I" in the column of the line(s) where incoming calls are being directed to specific extensions.

The system is factory set to answer DXD calls after two rings. You can change the number of rings from 0 to 9. If the number of rings is set to 0, the voice terminal will not ring, and calls are answered immediately by the VSP.

Under "Ring Interval" in the "DXD" row . . .

Write the number of rings (0-9) before DXD calls are answered.

Callers on DXD incoming lines are prompted with the following message:

"Please dial desired extension number."

Once the caller dials the two-digit extension number (which is the two-digit intercom number), the call is transferred to the extension and the caller hears the following message:

Please hold \*

You can also modify the voice message so that callers first hear the number they've reached, followed by the request for the extension number:

"You have reached (number). Please dial desired extension number."

Under "Modify Message" in the "DXD" row . . . form . . .

Write in the incoming phone number if you want it added to the VSP message.

## Remote Line Access (RLA)

This ASA feature allows you to call in from outside and use a password to gain access to one of the system's outside lines. Remote Line Access can also be used from a remote location to change the call forwarding number. This feature requires the assignment of at least one incoming line.

In the 'RLA' row under "Line Assignments for ASA Features" . . .

Write an "I" in the column of the line(s) where incoming lines can be used for RLA.

The system is factory set to answer RLA calls after two rings. You can change the number of rings from 0 to 9. If the number of rings is set to 0, the voice terminal will not ring, and calls are answered immediately by the VSP.

Under "Ring Interval" in the "RLA" row . . .

Write the number of rings (0-9) before RLA calls are answered.

### System Answer (SA)

System Answer can be used as an automated attendant to answer a call and provide a brief message before placing the caller on hold until someone is available to take the call. System Answer can have up to eight incoming lines assigned to it.

In the "SA" row under "Line Assignments for ASA Features" . . .

Write an "I" in the column of the line(s) where incoming calls are being answered and placed on hold by System Answer.

The system is factory set to answer SA calls after two rings. You can change the number of rings from 0 to 9. If the number of rings is set to 0, the voice terminal will not ring, and calls will be forwarded immediately.

Under "Ring Interval" in the "SA" row on the "Line Assignments for ASA Features" form . . .

Write the number of rings (0-9) before CF calls are answered.

You can select one of four ways to have incoming SA calls answered. You can choose the default voice message, a shortened version of it, or a longer version of it. The default message says:

"Please hold. Your call will be handled momentarily."

The shorter message says:

"Please hold."

The longer message says:

"You have reached [number]. Please hold. Your call will be handled momentarily."

You can also elect to have no voice message so that incoming SA calls are immediately placed on hold.

Under "Modify Message" in the "SA" row . . .

Write a "0" if you do not want the voice message.

Write a "1" if you want the message just to say, "Please hold."

Write a "2" if you want the message to say, "Please hold. Your call will be handled momentarily."

Write the incoming phone number if you want the longer message preceded with the phrase, "You have reached [number]."

You should now have a completed Line Assignments Form. Keep it in a place where you can find it when you want to administer the system or program individual voice terminals.

## Call Restrictions Forms

You can use call restrictions to prevent some or all voice terminals from making outside calls (both local and long distance). You can also use the Disallowed List to prevent some or all voice terminals from making billable calls to 900 numbers, the 976 exchange, or other numbers as desired.

> NOTE: System Speed Dial with Restriction Override, which can be used as a password to access an otherwise restricted number, takes precedence over Disallowed List. Disallowed List takes precedence over everything else.

You can use Allowed Lists of numbers and/or special Speed Dial codes to permit call restricted voice terminals to call specified telephone numbers, local exchanges, or area codes. By combining call restrictions with selected exceptions, you can control your outgoing call traffic and associated costs without placing unreasonable constraints on the people in your business. (Disallowed List, Allowed Lists, and System Speed Dial codes are explained in detail in this section of the manual.)

> NOTE: Call restrictions do not affect a voice terminal's ability to receive incoming calls nor to make intercom calls.

### DISALLOWED LIST

When you assign a Disallowed List of numbers to a voice terminal, the person trying to dial a number on this list will not be able to place the call.

The system can store up to 20 disallowed numbers with up to 16 digits for a given number. You can also use "wild card" digits to prevent calls to certain exchanges within any area code, or similar combinations. Here are some examples of how to use wild card digits:

- Disallowing calls to the 976 exchange in any area code: 1ppp976 or 0ppp976 where the wild card digits, ppp, are entered as three pauses.
- Disallowing calls to any area code:

lppp or Oppp where the wild card digits, ppp, are entered as three pauses.

For many restrictions, you don't have to use wild card digits. Here are some examples:

- Disallowing calls to any 976 number in the 201 area code:
- Disallowing calls to the 201 area code:

Disallowing calls to a specific number in the 201 area code; 555-9876 for example:

12015559876.

Disallowing local calls to a specific number such as 555-5432:

## Creating the Disallowed List

Once you've decided how many billable numbers you want to disallow, you write each entry next to a separate item (labeled 01 through 20) on the Disallowed List Entry Form located at the beginning of the Call Restrictions Form.

On the "Disallowed List Entry Form- List 09" . . .

Write billable numbers, area codes, etc., in the "Number" column to create your Disallowed List.

## Assigning the Disallowed List

Now that you have created your Disallowed List, you should decide to which voice terminals it is to be assigned when you administer the system. Enter this information on the of the Call Restrictions Assignment Form.

In the 'Disallowed Lists' column of the Call Restrictions Assignment Form . . .

Put a check mark next to the intercom number of each voice terminal to which the list is to be assigned when you administer the system.

#### UNRESTRICTED

When your system is first installed, all voice terminals are unrestricted, that is, there are no limitations on outgoing call traffic including long distance and local toll calls.

In the "Unrestricted" column on the Call Restrictions Assignment

Put a check mark for each voice terminal that will not have either outward or toll-restrictions.

#### TOLL RESTRICTED

Some people in your business may need to be able to call any local telephone number but have little need to make long distance calls. You can place a toll call restriction on their voice terminals. The system will allow local calls from those voice terminals but will ignore attempts to dial long distance numbers. Then, if there are certain areas of the country these people have to call on business, you can set up an Allowed List of those long distance area codes and assign the list to the toll restricted voice terminals when you administer the system. You can also mark selected long distance telephone numbers for Restriction Override and store them under Speed Dial codes in the system's memory. Then anyone in your system, including those with toll restricted voice terminals, can use the Speed Dial codes to dial those long distance numbers.

Under "Toll Restricted" on the Call Restrictions Assignment Form . . .

Put a check mark next to the intercom number of each voice terminal that will be restricted from making long distance calls.

#### OUTWARD RESTRICTED

Some people in your business may have little need to make any outside calls, either local or long distance. During system administration you can place an outward call restriction on their voice terminals, and the system will ignore attempts to dial outside telephone numbers from those voice terminals. Then if you want these people to be able to make local calls in business or personal emergencies, you can assign them an Allowed List of local exchanges and, perhaps, emergency numbers such as 911 when you assign the call restrictions...

You can also use System Speed Dial codes (called passwords in some telephone systems) with Restriction Override to allow restricted voice terminals to call selected local or long distance telephone numbers. You simply mark the numbers for Restriction Override and store them in the system's memory under Speed Dial codes when you administer the system. Then anyone in your system, including those with restricted voice terminals, can use the Speed Dial codes to call the stored numbers.

On the Call Restrictions Assignment Form . . .

Put a check mark in the "Outward Restricted" column next to the intercom numbers for the voice terminals you want to place outward restrictions on when you administer the system.

#### ALLOWED LISTS

When you assign an Allowed List of numbers to a voice terminal, the person using the voice terminal can call the numbers on the list regardless of any call restriction placed on the voice terminal.

The system can store up to eight Allowed Lists of numbers with up to 10 entries in each list. Each entry can have up to eight digits. You might, therefore, want to create one or more Allowed Lists with entries such as the following:

- Local exchange codes
  - A local exchange code is the first three digits in a 7-digit telephone number.
- Long distance area codes
- Area codes plus local exchange codes
- Emergency numbers with eight or fewer digits For example, 911 is a multipurpose emergency number in many areas.

## Naming Allowed Lists

Once you've decided how many Allowed Lists you want and what numbers should be included in each, you may want to identify each list by name (for example, "New England Customers" or 'Local Emergency Numbers') in addition to the numbers that already appear on the form (List 01, List 02,

On the "Allowed Lists Entry Form" . . .

Write the name, if any, that you want to use to identify each list on the line next to the list's code number (List 01, List 02, List 03, etc.)

## Creating Allowed Lists

Under "Number" on the appropriate "Allowed Lists Entry Form" . . .

Write area codes, local exchange codes, emergency or other telephone numbers, on the lines next to the "Item" numbers.

## Assigning Allowed Lists

Now that you've created some Allowed Lists, you should decide how you want to assign them to restricted voice terminals when you administer the system. You'll need to refer to the "Call Restrictions Assignment Form".

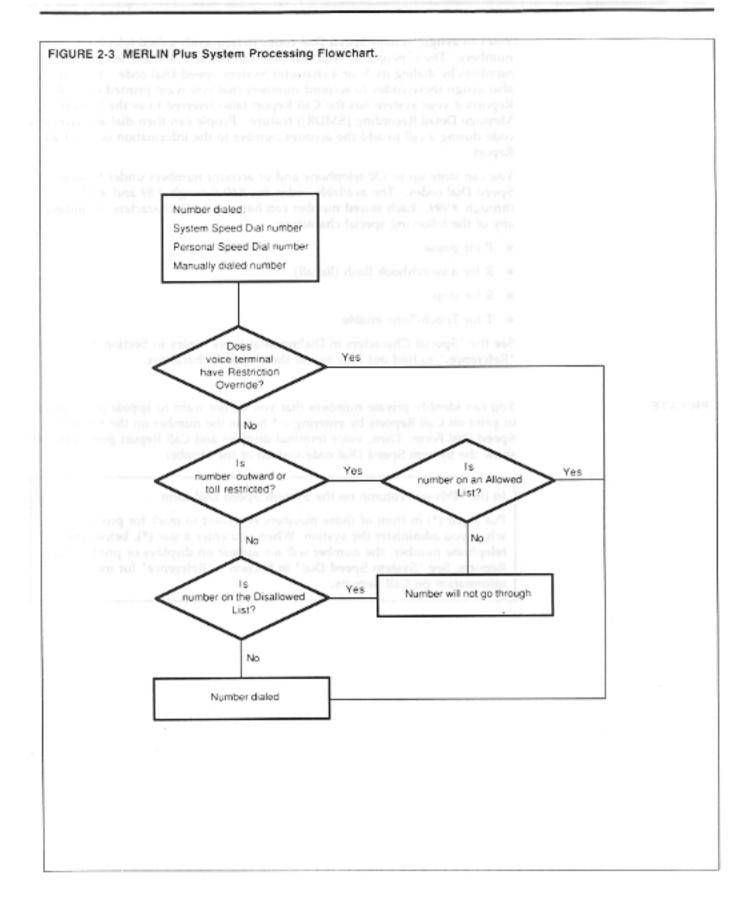
Under "Allowed Lists Assigned" on the Call Restrictions Assignment Form . . .

Put a check mark in the appropriate box representing the allowed lists that you want to assign to each voice terminal when you administer the system.

Keep your completed Call Restrictions Forms in a place where you can find it easily for system administration.

#### Call Restrictions Flow Chart

The following flowchart shows how the MERLIN Plus system processes outgoing calls. For example, if a call is dialed manually or with Personal Speed Dial, the system first checks to see if the voice terminal is toll or outward call restricted. If the voice terminal is unrestricted, the number dialed is checked against the Disallowed List. If the number is not on the Disallowed List, the call goes through.



## System Speed Dial Forms

You can assign System Speed Dial codes to frequently called telephone numbers. Then, people in your business can call any of these telephone numbers by dialing its 3- or 4-character System Speed Dial code. You can also assign these codes to account numbers that you want printed on Call Reports if your system has the Call Report (also referred to as the Station Message Detail Recording [SMDR]) feature. People can then dial an account's code during a call to add the account number to the information on the Call Report.

You can store up to 130 telephone and/or account numbers under System Speed Dial codes. The available codes are #60 through #89 and #900 through #999. Each stored number can have up to 16 characters, including any of the following special characters:

- P for pause
- R for a switchhook flash (Recall)
- S for stop
- T for Touch-Tone enable

See the "Special Characters in Dialing Sequences" entry in Section 5, "Reference," to find out how to use these special characters.

PRIVATE

You can identify private numbers that you do not want to appear on displays or print on Call Reports by entering a \* before the number on the System Speed Dial Form. Then, voice terminal displays and Call Report printouts will show the System Speed Dial code instead of the number.

In the 'Private' column on the System Speed Dial form . .

Put a star (\*) in front of those numbers you want to mark for privacy when you administer the system. When you enter a star (\*), before the telephone number, the number will not appear on displays or print on Call Reports, See "System Speed Dial" in Section 5 "Reference" for more information on Call Reports.

## NUMBER AND IDENTIFICATION

In the "Number" column on the System Speed Dial form . . .

Write the telephone numbers or account numbers you want to encode on the line containing the dial codes (#60, #61, #62, etc.) of your choice. Put a check mark in the telephone column if the number is a telephone number or put a check mark in the account column if the number is ...1 account number.

NOTE: Do not assign the same System Speed Dial code to both a telephone number and an account number.

To prevent confusion when entering both account numbers and telephone numbers, reserve codes #60 through #89 for telephone numbers and #900 through #949 for account numbers or vice versa. Also, it may be helpful to use the last four digits of a firm's telephone number to create an account number, so the account number can be easily identified.

In the "Name" column . . .

Write the name of the person or organization to identify each number.

#### RESTRICTION OVERRIDE

When you encode the telephone numbers during system administration, you can mark some or all of them for Restriction Override. Then people with restricted voice terminals or voice terminals that have been assigned a Disallowed List can call these marked numbers by dialing the System Speed Dial codes.

In the "Restriction Override" column . . .

Put a check mark on the line for each telephone number you want to mark for Restriction Override when you administer the system.

You should now have a complete set of planning forms. Keep them together in a safe place until you are ready to install and administer your system.

## NUMBER AND IDENTIFICATION

in the "Number" column on the System Speed Dial form

Write the telephone numbers or account numbers you want to encode the time containing the dial codes (#60, #61, #62, etc.) of your choice a check mark in the telephone column if the number or is a telephone number or put a check mark in the account column if the number is account number.

MOTE: Do not assign the same System Speed Dial code to both a telephone number and an account number.

To prevent confusion when entering both account numbers and telephone numbers, reserve codes #80 through #89 for telephone numbers and #7 through #949 for account numbers or vice versa. Also, it may be help a so use the last four digns of a firm's telephone number to create an account number, so the account number can be easily identified.

In the 'Name' column

Vrite the name of the person or organization to identify each number

### RESTRICTION OVERRIDE

When you encode the telephone numbers during system administration was can mark some or all of their for Restriction Override. Then people will restricted wrice terminals or voice terminals that have been assigned a Disailowed List can call these marked numbers by dialing the System Execution Codes.

In the 'Restriction Override' column

Put a check mark on the line for each telephone number you want to ark the Restriction Override when you administer the system.

You should now have a complete set of planning forms. Reep them see the in a safe place until you are ready to install and administer your system

# System Configuration Form

| Required Settings:   |   |  |
|--|---|--|
| Dial Signals  ☐ Touch-Tone ■T  ☐ Rotary (Pulse)                  | Long Distance Dialing  ☐ Toll Prefix ☐ Area Code Only     | Transfer Return Interval  No Return Rings                    |
| Optional Settings:   |   |  |
| Call Report  ☐ Outgoing Calls Only ☐ Incoming and Outgoing Calls | Music-on-Hold  ☐ Low Volume ☐ Medium Volume ☐ High Volume | Background Music  ☐ Low Volume ☐ Medium Volume ☐ High Volume |
| Minimum Duration for<br>Recorded Calls                           |   |  |
|  |   |  |

## Outside Telephone Lines

| Control Unit |                  | Hold Di<br>Inte | sconnect<br>rval | Line Type               |
|--------------|------------------|-----------------|------------------|-------------------------|
| Jack/Line    | Telephone Number | Short           | Long             | (Local, WATS, FX, etc.) |
| A            |                  |                 |                  |                         |
| В            |                  |                 |                  |                         |
| С            |                  |                 |                  |                         |
| D            |                  |                 |                  |                         |
| E            |                  |                 |                  |                         |
| F            |                  |                 |                  |                         |
| G            |                  |                 |                  |                         |
| Н            |                  |                 |                  |                         |

## System Configuration Form (continued)

## Voice Terminals

| ntercom | Transfer Retu           | Lone Distance Disting  | Paging  | Groups | plen.         | Jane   |
|---------|-------------------------|------------------------|---------|--------|---------------|--------|
|         | Name Name               | Location               | 1       | 2      | Template      | Lock   |
| 10      | (Attendant)             |                        |         |        |               |        |
| 11      |                         |                        |         |        |               |        |
| 12      |                         |                        |         |        |               |        |
| 13      |                         |                        |         |        | st Settings.  | pital  |
| 14      |                         |                        |         |        |               |        |
|         | Background N            | blott-no-aleuM         |         |        | Pio-          | 17 116 |
|         | V mutal C               | Medium Volume          |         | 00:00  | A.O. bos. pe. |        |
| 17      |                         | High Volume            |         |        |               | 160    |
| 18      | (ASA)                   |                        |         |        | c1 notesud -  |        |
| 19      | (BB & Reports)          |                        |         |        | 8860 F        | . 07:  |
| 20      |                         |                        |         |        |               |        |
| 21      |                         |                        |         |        |               |        |
| 22      |                         | miside relephone Lines |         |        |               |        |
| 23      |                         | Held Discount          |         |        |               |        |
| 24      | Line Type               | Interval               |         |        | tinU to       | mD.    |
| 25      | (Local, WATS, FX, etc.) | ber Short Long         | one Num | Teleph | saiJ's        |        |
| 26      |                         |                        |         |        |               |        |
| 27      |                         |                        |         |        |               |        |
| 28      |                         |                        |         |        |               |        |
| 29      |                         |                        |         |        |               |        |

## **Line Assignments Form**

Line Assignments for Voice Terminals

| Name | Icom<br>No. | Line<br>A | Line<br>B | Line<br>C | Line<br>D | Line<br>E | Line<br>F | Line<br>G | Line<br>H | Automati<br>Line<br>Selection<br>Sequence |
|------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---|
|      | 10          |           |           |           |           |           |           |           |           |   |
|      | 11          |           |           |           |           |           |           |           |           |   |
|      | 12          | ļ .       |           |           |           |           |           |           |           |   |
|      | 13          |           |           |           |           |           |           |           |           |   |
|      | 14          |           |           |           |           |           |           |           |           |   |
|      | 15          |           |           |           |           |           |           |           |           |   |
|      | 16          |           |           |           |           |           |           |           |           |   |
|      | 18          |           |           |           |           |           |           |           |           |   |
|      | 19          |           |           |           |           |           |           |           |           |   |
|      | 19          |           |           |           |           |           |           |           |           |   |
|      | 20          |           |           |           |           |           |           |           |           |   |
|      | 21          |           |           |           |           |           |           |           |           |   |
|      | 22          |           |           |           |           |           |           |           |           |   |
|      | 23          |           |           |           |           |           |           |           |           |   |
|      | 24          |           |           |           |           |           |           |           |           |   |
|      | 25          |           |           |           |           |           |           |           |           |   |
|      | 26          |           |           |           |           |           |           |           |           |   |
|      | 27          |           |           |           |           |           |           |           |           |   |
|      | 28          |           |           |           |           |           |           |           |           |   |
|      | 29          |           |           |           |           |           |           |           |           |   |

R = Immediate Ring/Button-Free N = No Ring/Button-Free

## Line Assignments for ASA Features

| ASA<br>Feature | Line<br>A | Line<br>B | Line<br>C | Line<br>D | Line<br>E | Line<br>F | Line<br>G | Line<br>H | Ring<br>Interval | Modify<br>Message |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------------|-------------------|
| CF             |           |           |           |           |           |           |           |           |                  |                   |
| DXD            |           |           |           |           |           |           |           |           |                  |                   |
| RLA            |           |           |           |           |           |           |           |           |                  |                   |
| SA             |           |           |           |           |           |           |           |           |                  |                   |

Answer

CF = Call Forwarding DXD = Direct Extension Dialing

RLA = Remote Line Access SA = System

## Line Assignments for Voice Terminals

mediate River Botton-Free N = No Ring Button-Free

## Line Assignments for ASA Features

| Ring<br>Interval |  |  |  |  |  |
|------------------|--|--|--|--|--|
|                  |  |  |  |  |  |
|                  |  |  |  |  |  |
|                  |  |  |  |  |  |

rewarding DXD - Drevi Estensian Dialing RLA - Remote Line Access SA = System

## Disallowed List Entry Form

|      | List 09 |  |
|------|---------|--|
| Item | Number  |  |
| 01   |         |  |
| 02   | 40      |  |
| 03   |         |  |
| 04   | (O) ·   |  |
| 05   |         |  |
| 06   | 80      |  |
| 07   | 90      |  |
| 08   | Or      |  |
| 09   |         |  |
| 10   |         |  |
| 11   | d0 felJ |  |
| 12   | mod     |  |
| 13   |         |  |
| 14   | 10.     |  |
| 15   | 50      |  |
| 16   |         |  |
| 17   | 10 1    |  |
| 18   | 1 40    |  |
| 19   | 99      |  |
| 20   | 80      |  |

## Allowed Lists Entry Form

| List 01 | 50 FeL | List 02 | 50.10  |
|---------|--------|---------|--------|
| ltem    | Number | Item    | Number |
| 01      |        | 01      |        |
| 02      |        | 02      |        |
| 03      |        | 03      |        |
| 04      |        | 04      |        |
| 05      |        | 05      |        |
| 06      |        | 06      |        |
| 07      |        | 07      |        |
| 08      |        | 08      |        |
| 09      |        | 09      |        |
| 10      |        | 10      |        |

## Call Restrictions Form (continued)

| List 03 | y Force | armod with a bow List 04 |        |  |  |  |  |  |
|---------|---------|--------------------------|--------|--|--|--|--|--|
| Item    | Number  | Item                     | Number |  |  |  |  |  |
| 01      |         | 01                       | and i  |  |  |  |  |  |
| 02      |         | 02                       | 10000  |  |  |  |  |  |
| 03      |         | 03                       |        |  |  |  |  |  |
| 04      |         | 04                       | 02     |  |  |  |  |  |
| 05      |         | 05                       | 50     |  |  |  |  |  |
| 06      |         | 06                       | FO .   |  |  |  |  |  |
| 07      |         | 07                       | 20     |  |  |  |  |  |
| 08      |         | 08                       | 80     |  |  |  |  |  |
| 09      |         | 09                       | TO TO  |  |  |  |  |  |
| 10      |         | 10                       | 1 20   |  |  |  |  |  |

| List 05 |        | List 06 |        |
|---------|--------|---------|--------|
| Item    | Number | Item    | Number |
| 01      |        | 01      |        |
| 02      |        | 02      |        |
| 03      |        | 03      | 1 12 2 |
| 04      |        | 04      | 01     |
| 05      |        | 05      | 14.    |
| 06      |        | - 06    | 81     |
| 07      |        | 07      |        |
| 08      |        | 08      | 15     |
| 09      |        | 09      |        |
| 10      |        | 10      |        |

| List 07 |        | - 10 /// - | List 08 |        |  |  |  |
|---------|--------|------------|---------|--------|--|--|--|
| Item    | Number | nesti      | Item    | Number |  |  |  |
| 01      |        | 10         | 01      |        |  |  |  |
| 02      |        | 200        | 02      |        |  |  |  |
| 03      |        |            | 03      |        |  |  |  |
| 04      |        | 10         | 04      |        |  |  |  |
| 05      |        |            | 05      |        |  |  |  |
| 06      |        | 80         | 06      |        |  |  |  |
| 07      |        |            | 07      |        |  |  |  |
| 08      |        | 80         | 08      |        |  |  |  |
| 09      |        | 60         | 09      |        |  |  |  |
| 10      |        | . 01       | 10      |        |  |  |  |

## Call Restrictions Form (continued)

## Call Restrictions Assignment Form

| Intercom | Disallowed |              | Toll Outward |  |    | Allowed Lists Assigned |    |    |    |    |    |    |
|----------|------------|--------------|--------------|--|----|------------------------|----|----|----|----|----|----|
| Number   | List       | Unrestricted |              |  | 01 | 02                     | 03 | 04 | 05 | 06 | 07 | 08 |
| 10       |            |              |              |  |    |                        |    |    |    |    |    |    |
| 11       |            |              |              |  |    |                        |    |    |    |    |    |    |
| 12       |            |              |              |  |    |                        |    |    |    |    |    |    |
| 13       |            |              |              |  |    |                        |    |    |    |    |    |    |
| 14       |            |              |              |  |    |                        |    |    |    |    |    |    |
| 15       |            |              |              |  |    |                        |    |    |    |    |    |    |
| 16       |            |              |              |  |    |                        |    |    |    |    |    |    |
| 17       |            |              |              |  |    |                        |    |    |    |    |    |    |
| 18       |            |              |              |  |    |                        |    |    |    |    |    |    |
| 19       |            |              |              |  |    |                        |    |    |    |    |    |    |
| 20       |            |              |              |  |    |                        |    |    |    |    |    |    |
| 21       |            |              |              |  |    |                        |    |    |    |    |    |    |
| 22       |            |              |              |  |    |                        |    |    |    |    |    |    |
| 23       |            |              |              |  |    |                        |    |    |    |    |    |    |
| 24       |            |              |              |  |    |                        |    |    |    |    |    |    |
| 25       |            |              |              |  |    |                        |    |    |    |    |    |    |
| 26       |            |              |              |  |    |                        |    |    |    |    |    |    |
| 27       |            |              |              |  |    |                        |    |    |    |    |    |    |
| 28       |            |              |              |  |    |                        |    |    |    |    |    |    |
| 29       |            |              |              |  |    |                        |    |    |    |    |    |    |

## Call Restrictions Form (continued)

## Call Restrictions Assignment Form

## System Speed Dial Form

| Dial | E S     |        | (Check    | one)    |      | Restriction  |  |  |
|------|---------|--------|-----------|---------|------|--|--|--|
| Code | Private | Number | Telephone | Account | Name | Override   |  |  |
| #60  |         |        |           |         |      |  |  |  |
| #61  |         |        |           |         |      |  |  |  |
| #62  |         |        |           |         |      | 21-  |  |  |
| #63  |         |        |           |         |      | 818  |  |  |
| #64  |         |        |           |         |      |  |  |  |
| #65  |         |        |           |         |      | ( C)   |  |  |
| #66  |         |        |           |         |      |  |  |  |
| # 67 |         |        |           |         |      |  |  |  |
| #68  |         |        |           |         |      | 1 1 1 1 1 1 1 1 1 1  |  |  |
| # 69 |         |        |           |         |      | The state of the s |  |  |
| #70  |         |        |           |         |      |  |  |  |
| #71  |         |        |           |         |      | 120  |  |  |
| #72  |         |        |           |         |      | 227  |  |  |
| #73  |         |        |           |         |      | 8.57   |  |  |
| #74  |         |        |           |         |      | 126  |  |  |
| # 75 |         |        |           |         |      | 200  |  |  |
| #76  |         |        |           |         |      | 301  |  |  |
| #77  |         |        |           |         |      | 727  |  |  |
| #78  |         |        |           |         |      | 85.73  |  |  |
| #79  |         |        |           |         |      | 626.28   |  |  |
| #80  |         |        |           |         |      | 000  |  |  |
| #81  |         |        |           |         |      | 150.0  |  |  |
| #82  |         |        |           |         |      | 251.0  |  |  |
| #83  |         |        |           |         |      | 133  |  |  |
| #84  |         |        |           |         |      | 100  |  |  |
| # 85 |         |        |           |         |      | - 735  |  |  |
| #86  |         |        |           |         |      | 35-1   |  |  |
| #87  |         |        |           |         |      | 1  |  |  |
| #88  |         |        |           |         |      | 827  |  |  |
| #89  |         |        |           |         |      | 65.1   |  |  |
| 900  |         |        |           |         |      | 01   |  |  |
| 901  |         |        |           |         |      | 134.1  |  |  |
| 902  |         |        |           |         |      | -42  |  |  |
| 903  |         |        |           |         |      | E4-3   |  |  |
| 904  |         |        | -         |         |      | 1  |  |  |
| 905  |         |        |           |         |      | 556.5  |  |  |
| 906  |         |        |           |         |      | 84.7   |  |  |
| 907  |         |        |           |         |      | 734 1  |  |  |
| 908  |         |        |           |         |      | 81-1   |  |  |
| 909  |         | -      |           |         |      | 1 0 0  |  |  |

## System Speed Dial Form (continued)

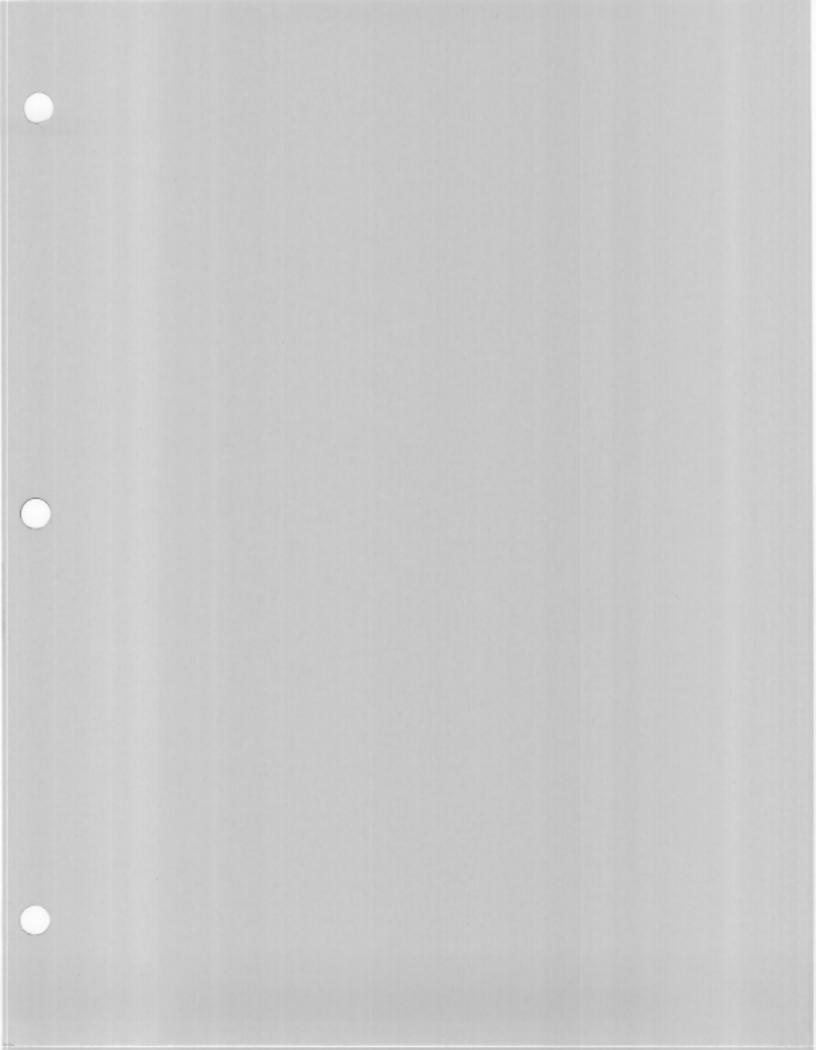
| Dial         | iano   | (Check one) |         |      | Restriction |
|--------------|--------|-------------|---------|------|-------------|
| Code Private | Number | Telephone   | Account | Name | Override    |
| #910         |        |             |         |      |             |
| #911         |        |             |         |      |             |
| #912         |        |             |         |      | 1.0         |
| #913         |        |             |         |      | 1.04        |
| #914         |        |             |         |      | 100         |
| # 915        |        |             |         |      |             |
| #916         |        |             |         |      |             |
| #917         |        |             |         |      | Tak.        |
| #918         |        |             |         |      | 443         |
| #919         |        |             |         |      | 124 8       |
| #920         |        |             |         |      | 100         |
| #921         |        |             |         |      | 173         |
| #922         |        |             |         |      |             |
| #923         |        |             |         |      | 1 0.11      |
| #924         |        |             |         |      |             |
| # 925        |        |             |         |      |             |
| # 926        |        |             |         |      |             |
| # 927        |        |             |         |      |             |
| #928         |        |             |         |      |             |
| #929         |        |             |         |      |             |
| #930         |        |             |         |      |             |
| #931         |        |             |         |      |             |
| # 932        |        |             |         |      | 1000        |
| # 933        |        |             |         |      | 81          |
| #934         |        |             |         |      | 144         |
| # 935        |        |             |         |      | 38.8        |
| #936         |        |             |         |      |             |
| # 937        |        |             |         |      |             |
| # 938        |        |             |         |      |             |
| # 939        |        |             |         |      |             |
| # 940        |        |             |         |      | Ok.         |
| #941         |        |             |         |      | 1001        |
| # 942        |        |             |         |      |             |
| # 943        |        |             |         |      | 1.0801      |
| # 944        |        |             |         |      | 1000        |
| # 945        |        |             |         |      | (M)         |
| # 946        |        |             |         |      |             |
| # 947        |        |             |         |      | 770         |
| # 948        |        |             |         |      | 1191        |
| # 949        |        |             |         |      | 11961       |

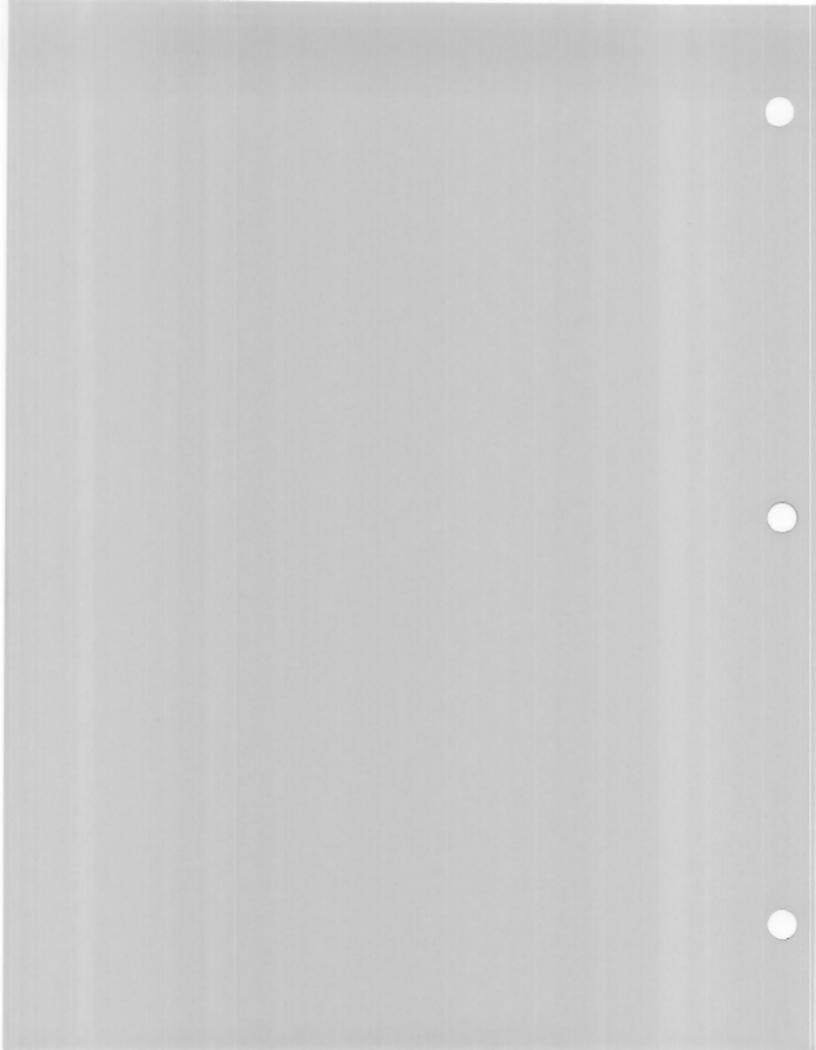
## System Speed Dial Form (continued)

| Dial  | 18      |        | (Check    | c one)  |      | Restriction                           |
|-------|---------|--------|-----------|---------|------|---------------------------------------|
| Code  | Private | Number | Telephone | Account | Name | Override                              |
| #950  |         |        |           |         |      | UPA I                                 |
| #951  |         |        |           |         |      |                                       |
| #952  |         |        |           |         |      | 200                                   |
| #953  |         |        |           |         |      |                                       |
| #954  |         |        |           |         |      |                                       |
| # 955 |         |        |           |         |      | C C C C C C C C C C C C C C C C C C C |
| # 956 |         |        |           |         |      |                                       |
| #957  |         |        |           |         |      |                                       |
| #958  |         |        |           |         |      | 80.1                                  |
| # 959 |         |        | 4         |         |      |                                       |
| #960  |         |        |           |         |      |                                       |
| #961  |         |        |           |         |      |                                       |
| #962  |         |        |           |         |      |                                       |
| #963  |         |        |           |         |      |                                       |
| #964  |         |        |           |         |      |                                       |
| #965  |         |        |           |         |      |                                       |
| #966  |         |        |           |         |      |                                       |
| #967  |         |        |           |         |      |                                       |
| #968  |         |        |           |         |      |                                       |
| #969  |         |        |           |         |      |                                       |
| #970  |         |        |           |         |      |                                       |
| #971  |         |        |           |         |      |                                       |
| #972  |         |        |           |         |      |                                       |
| #973  |         |        |           |         |      |                                       |
| #974  |         |        |           |         |      |                                       |
| #975  |         |        |           |         |      |                                       |
| #976  |         |        |           |         |      |                                       |
| #977  |         |        |           |         |      |                                       |
| #978  |         |        |           |         |      |                                       |
| #979  |         |        |           |         |      |                                       |
| #980  |         |        |           |         |      |                                       |
| #981  |         |        |           |         |      |                                       |
| #982  |         |        |           |         |      |                                       |
| #983  |         |        |           |         |      |                                       |
| #984  |         |        |           |         |      |                                       |
| # 985 |         |        |           |         |      |                                       |
| #986  |         |        |           |         |      |                                       |
| #987  |         |        |           |         |      |                                       |
| #988  |         |        |           |         |      |                                       |
| # 989 | 1       |        |           |         |      |                                       |

## System Speed Dial Form (continued)

| Dial<br>Code Private | Number | (Check one) Telephone Account | Name | Restriction<br>Override |
|----------------------|--------|-------------------------------|------|-------------------------|
| # 990                |        |                               |      | 1000                    |
| #991                 |        |                               |      |                         |
| 7992                 |        |                               |      |                         |
| # 993                |        |                               |      |                         |
| 994                  |        |                               |      |                         |
| 995                  |        |                               |      |                         |
| 996                  |        |                               |      |                         |
| 997                  |        |                               |      |                         |
| 998                  |        |                               |      |                         |
| 999                  |        |                               |      |                         |
|                      |        |                               |      |                         |
|                      |        |                               |      |                         |
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|                      |        |                               |      |                         |





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## Section 3: Administering the System

### Introduction

Initial Administration Occorne, Administration

### Administration Preview

New System Components

The BIS-34, BIS-34D, or M-Button Deluxe Voice

Terminal Used as an Administrator Console

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## Line Assignments for Voice Terminals

Original Line Assignments Customized Line Assignments Botton-Free Line Operation Line Assignments for ASA Features

### Systemwide Options

Call Restrictions to Voice Terminals Disallowed List Allowed Lists Call Restrictions Assignment Forms System Sevent Disa You can begin using your MERLIN® Plus Communications System right now. Just make sure the system is set to generate the right dial signals for your outside telephone lines and to recognize the long distance dialing procedure for your area. To make these simple checks, see "Dial Signals" and "Long Distance Dialing" under "Basic Administration" later in this section.

To take full advantage of your system's advanced features you should plan to customize it to fit the needs of your business. However, you do not need to customize it all at once. Look through this section for options and features that best suit the way your business operates, and make the most important settings first. You can always change these or add others later.

Before you begin to customize your system, you should understand the meaning of the terms "administer" and "program" as they are used in this manual:

- Administer means to establish options and features that have systemwide impact, such as assigning the outside lines that each voice terminal can access or defining System Speed Dial codes for everyone to use.
- Program means to assign features to an individual voice terminal. Most people will probably program their own voice terminals. But you may want to program certain features that can affect the calling patterns of your business.

### INITIAL ADMINISTRATION

Although an AT&T technician may perform the initial administration of your system, you can assist with the setup by familiarizing yourself with the timesaving instructions located under the following headings:

- Administration Preview
- Basic Administration
- Customized Line Assignments
- Systemwide Options

## ONGOING ADMINISTRATION

Use the "Quick Reference Guide to System Administration" in Section 6 to make changes to the system once it has been set up and administered. If you need more information on an administration procedure than the Quick Reference Guide provides, look it up in Section 5, "Reference."

## Administration Preview

#### PLANNING FORMS

The information about your system recorded on the planning forms listed below is important to both initial and ongoing system administration.

- System Configuration Form
- Line Assignments Form
- Call Restrictions Forms
- System Speed Dial Form

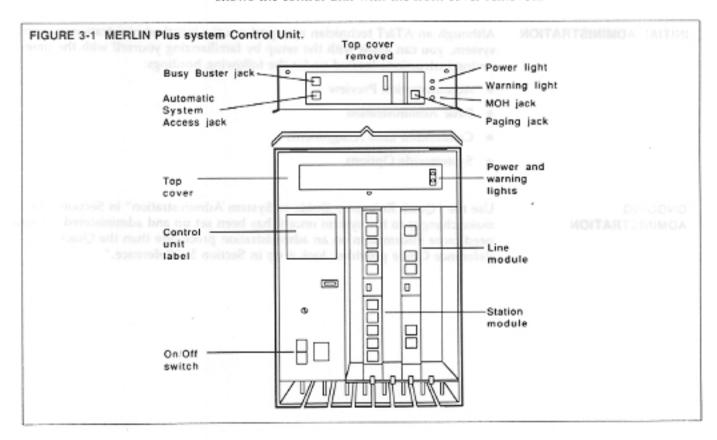
If you haven't filled out any planning forms yet, you should do so now. It won't take long, and it will save you time later. Section 2, 'Planning the System," contains copies of the forms and instructions for completing them. When you've completed the forms, go on to "Key System Components."

## KEY SYSTEM COMPONENTS

Read the following to get acquainted with the system's control unit and the administrator/attendant console.

#### Control Unit

The control unit is the vital core of the system. It provides the power and intelligence for all voice terminals, and it directs all incoming and outgoing call traffic. All the system's memory, including systemwide administration and voice terminal programming, resides in the control unit. Figure 3-1 shows the control unit with the front cover removed.



#### Administrator/Attendant Console

A BIS-34 voice terminal or a BIS-34D voice terminal with display, both of which have lights for every outside line and voice terminal button, are ideal administrator/attendant consoles for MERLIN Plus systems with more than 10 voice terminals. Figure 3-2 shows a BIS-34D with display used as a console. The line buttons above the dial pad and the Auto Intercom buttons to the right of the dial pad give you one-touch access to each line and voice terminal. The lights allow you to keep track of administration procedures as well as changes in the status of the voice terminals and the outside lines during normal call handling.

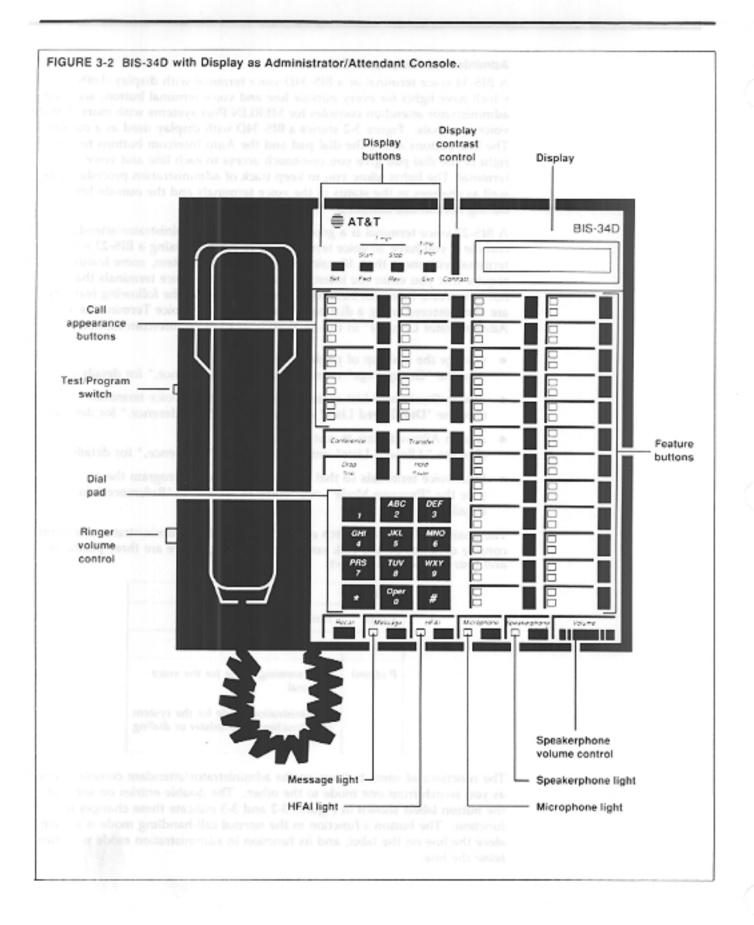
A BIS-22 voice terminal is a good selection for an administrator/attendant console if you have 10 voice terminals or less. When using a BIS-22 voice terminal with more than 10 voice terminals on the system, some features require that you enter the intercom numbers of the voice terminals that do not have Auto Intercom buttons at the console. Also the following features are administered using a dial code (see "The BIS-22 Voice Terminal as an Administrator Console" in this section) instead of an intercom number:

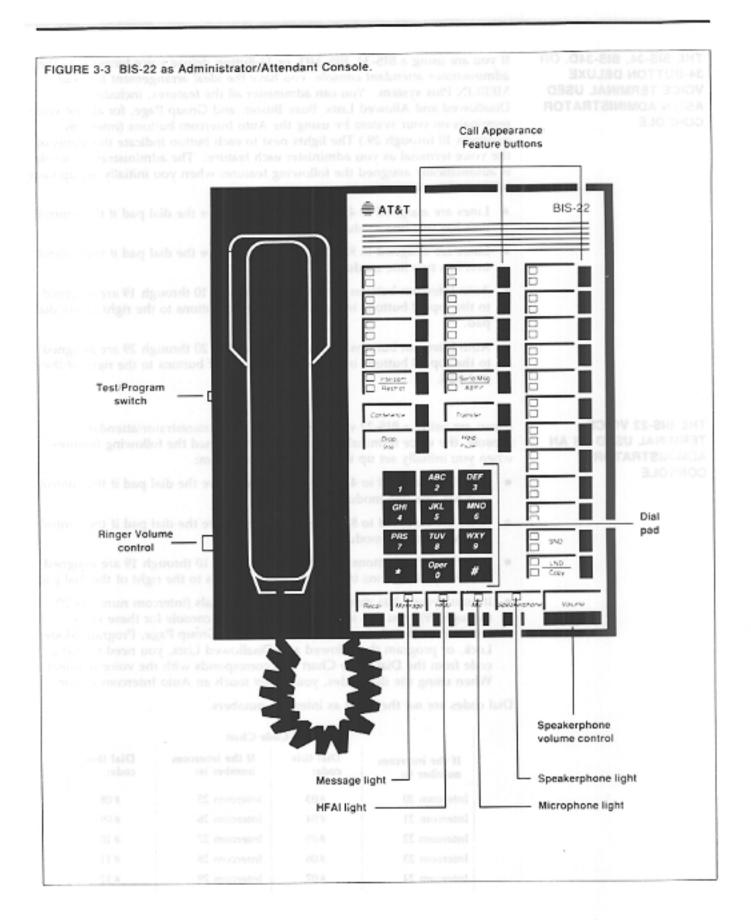
- Change the makeup of paging groups (See the "Group Page" entry in Section 5, "Reference," for details.)
- Assign Disallowed List systemwide or to selected voice terminals (See the "Disallowed Lists" entry in Section 5, "Reference," for details.)
- Assign Allowed Lists to restricted phones (See the "Allowed Lists" entry in Section 5, "Reference," for details.)
- Lock voice terminals so that individuals cannot reprogram them. (See the "Program Mode Lock" entry in Section 5, "Reference," for details.)

The position of the T/P switch on the left side of the administrator/attendant console depends on the task you are performing. There are three positions and four functions as follows:

| Position | Function  |
|----------|---|
| T (up)   | Tests lights and ringing  |
| Center   | Normal call-handling mode   |
| P (down) | Programming mode for the voice terminal   |
|          | Administration mode for the system<br>after touching Administer or dialing<br>#49 |

The functions of some buttons on the administrator/attendant console change as you switch from one mode to the other. The double entries on some of the button labels shown in Figures 3-2 and 3-3 indicate these changes in function. The button's function in the normal call-handling mode is shown above the line on the label, and its function in administration mode is shown below the line.





THE BIS-34, BIS-34D, OR 34-BUTTON DELUXE VOICE TERMINAL USED AS AN ADMINISTRATOR CONSOLE

If you are using a BIS-34, BIS-34D, or 34-Button deluxe voice terminal as the administrator attendant console, you have the ideal arrangement for your MERLIN Plus system. You can administer all the features, including Disallowed and Allowed Lists, Busy Buster, and Group Page, for all the voice terminals on your system by using the Auto Intercom buttons (intercom numbers 10 through 29.) The lights next to each button indicate the status of the voice terminal as you administer each feature. The administrator console is automatically assigned the following features when you initially set up your MERLIN Plus system:

- Lines are assigned to 4 of the 10 buttons above the dial pad if the control unit has one line module.
- Lines are assigned to 8 of the 10 buttons above the dial pad if the control unit has two line modules.
- Auto Intercom buttons for intercom numbers 10 through 19 are assigned to the top 10 buttons in the first column of buttons to the right of the dial
- Auto Intercom buttons for intercom numbers 20 through 29 are assigned to the top 10 buttons in the second column of buttons to the right of the dial pad.

THE BIS-22 VOICE TERMINAL USED AS AN ADMINISTRATOR CONSOLE

If you are using a BIS-22 voice terminal as the administrator/attendant console, the voice terminal is automatically assigned the following features when you initially set up the MERLIN Plus system:

- Lines are assigned to 4 of the 10 buttons above the dial pad if the control unit has one line module.
- Lines are assigned to 8 of the 10 buttons above the dial pad if the control unit has two line modules.
- Auto Intercom buttons for intercom numbers 10 through 19 are assigned to the top 10 buttons in the column of buttons to the right of the dial pad.
- If your system has more than 10 voice terminals (intercom numbers 20 through 29), you will not have buttons at the console for these voice terminals. Therefore, when you administer Group Page, Program Mode Lock, or program the Allowed and Disallowed Lists, you need to dial a code from the Dial Code Chart that corresponds with the voice terminal. When using the dial codes, you do not touch an Auto Intercom button.

Dial codes are not the same as intercom numbers.

|                               | Dial C          | ode Chart                     |                 |
|-------------------------------|-----------------|-------------------------------|-----------------|
| If the intercom<br>number is: | Dial this code: | If the intercom<br>number is: | Dial this code: |
| Intercom 20                   | #03             | Intercom 25                   | # 08            |
| Intercom 21                   | #04             | Intercom 26                   | # 09            |
| Intercom 22                   | # 05            | Intercom 27                   | # 10            |
| Intercom 23                   | # O6            | Intercom 28                   | #11             |
| Intercom 24                   | # 07            | Intercom 29                   | #12             |

For example, if you want to assign voice terminal 21 to a Group Page group or add the voice terminal to an Allowed List, use the dial code, #04, that corresponds with intercom number 21:

> NOTE: It is important that you record your decisions about Allowed and Disallowed Lists on the Call Restrictions Assignment Form; record decisions about your Call Report and or System Feature Report jack assignment and Group Page on the System Configuration Form. Keep these forms handy in case you decide to make changes.

THE BIS-10 VOICE TERMINAL USED AS AN ADMINISTRATOR CONSOLE

The BIS-10 voice terminal is not recommended to be used as the administrator/attendant console because the administrator cannot see the buttons being administered. However, if you are using a BIS-10 voice terminal as an administrator/attendant console to perform the administration procedures for many of the special features, follow the instructions provided for the BIS-22 voice terminal, which generally require that you enter the dial codes (see chart below) directly without touching an Auto Intercom button.

| 10 | number is:  | Dial this code: | If the intercom<br>number is: | Dial this code: |
|----|-------------|-----------------|-------------------------------|-----------------|
|    | Intercom 10 | # 22            | Intercom 20                   | #03             |
|    | Intercom 11 | #21 by ret      | Intercom 21                   | #04             |
|    | Intercom 12 | # 20            | Intercom 22                   | N 05            |
|    | Intercom 13 | # 19            | Intercom 23                   | # 06            |
| 1  | Intercom 14 | # 18            | Intercom 24                   | # 07            |
|    | Intercom 15 | # 17            | Intercom 25                   | #08             |
|    | Intercom 16 | # 16            | Intercom 26                   | # 09            |
|    | Intercom 17 | # 15            | Intercom 27                   | # 10            |
|    | Intercom 18 | # 14            | Intercom 28                   | #11             |
| 1  | Intercom 19 | #13             | Intercom 29                   | #12             |

### ADMINISTRATION MODE

The information under the next three headings tells you how to do the following:

- Make button label sheets for the administrator/attendant console
- Enter administration mode
- Leave administration mode

#### Labeling Buttons

The button label sheets on your administrator/attendant console have to show how the functions of certain buttons change when you shift from the normal call-handling mode to the administration mode. Figure 3-2 shows you what the button labels should look like for a BIS-34D voice terminal with Display. Figure 3-3 shows the button labels for a BIS-22 voice terminal.

To make button labels for the voice terminal you plan to use as your administrator attendant console, do the following:

Remove the blank button labels from the voice terminal according to the instructions that came with the voice terminal.

- 2 Fill in the button labels with pencil or ballpoint pen since either can be erased if you make changes later.
  - For any BIS-34 and 34-button voice terminals, follow the button labeling shown in Figure 3-2.
  - For any BIS-22 voice terminal, follow the button labeling shown in Figure 3-3.

NOTE: On the button labels divided by a horizontal line, the term above the line identifies the button's function when the console is in the normal call-handling mode. The term below the line identifies the button's function in administration mode.

3 Reinsert the labels following the instructions that came with the voice terminal.

### **Entering Administration Mode**

You have to enter administration mode to set up the system initially and anytime you use the attendant console to administer the system. Follow the boxed instructions below whenever you have to enter administration mode.

# Entering Administration Mode

To enter administration mode:

- Slide the T/P switch on the left side of the console to P (down).
  The green lights next to the line buttons begin flashing.
  The console rings every 5 seconds to remind you that it's in programming mode.
- 2 Touch Administer, or dial #49.
  The green lights go off.
  The red lights go on next to Administer and Restrict.



### Leaving Administration Mode

Follow the boxed instructions on the below when you've finished an administration session.

# Leaving Administration Mode

To leave administration mode:

1 Slide the T/P switch on the left side of the console to the center position.

The red light goes off next to Administer and Restrict. The red light goes on next to a line button.



### CONFIRMATION AND ERROR SIGNALS

Many of the administration and programming procedures described in this manual require you to enter a star code (that is, dial \* plus one or more digits). Many procedures also require you to enter intercom numbers or other sequences of digits.

### Confirmation Signal

If you enter a star code that the system recognizes, the console beeps twice when you touch Administer to conclude the procedure. The two beeps confirm allowable input.

# Error Signal

You will hear only one beep from the attendant console if you make one of the following errors:

- You enter an unrecognized star code.
- You enter a nonexistent intercom number.
- You enter one or more digits that are inconsistent with the administration procedure.
- You attempt to administer a voice terminal that is active on a call or in program mode.
- You attempt to assign an alternate attendant position with the System Answer feature on.

To recover from the error, touch Administer and begin the procedure again.

# **Basic Administration**

Basic administration should take no more than a few minutes. All the information you need should be on your System Configuration Form.

### OUTSIDE TELEPHONE LINES

This simple procedure tells the control unit how many outside telephone lines your system has. But it works only if your outside lines are plugged into an unbroken sequence of line jacks on the control unit beginning with line jack.

A. The System Configuration Form shows the number of lines you have and the control unit line jack for each line under the heading "Outside Telephone Lines."

To set the systemwide line assignments, do the following:

- Enter administration mode.
   The red lights go on next to Administer and Restrict.
- 2 Dial \*4 plus the number of outside lines in the system. (For example, dial \*43 for a system with three lines.)
- Touch Administer.
   The console beeps treice.
- 4 Continue to administer the system, or leave administration mode.

### **Ghost Lines**

When you first turn on the system, the control unit thinks there are the same number of outside lines in the system as there are line jacks on the control unit. This causes the control unit to create "ghost" lines in a system that has fewer lines than line jacks. Since ghost lines can interfere with some system features, you should eliminate them using the procedure described above for designating the number of lines in the system.

### DIAL SIGNALS

Locate the column headed "Dial Signals" on the System Configuration Form. Is the box next to "Touch-Tone" checked? If so, you don't have to do anything here. Your system is factory set to generate Touch-Tones when you dial an outside call on any of your outside telephone lines.

But if the box next to "Rotary (Pulse)" is checked, you have to set the system to generate rotary (pulse) signals when you dial outside calls. Set the system for pulse dialing as follows:

- Enter administration mode.
   The red lights go on next to Administer and Restrict.
- 2 Dial \*39.

NOTE: If you ever have to reset the system for Touch-Tone dialing, dial \*38 instead of \*39 in step 2.

- Touch Administer.
   The console beeps twice.
- 4 Continue with administration, or leave administration mode.

### LONG DISTANCE DIALING

Locate the column headed "Long Distance Dialing" on the System Configuration Form. Is the box next to "Toll Prefix" checked? If so, you don't have to do anything here. Your system is factory set for this type of long-distance dialing: toll prefix (1 or 0) + area code + telephone number.

But if the box next to "Area Code Only" has a check, you have to set the system for this type of long-distance dialing (area code + telephone number) as follows:

- Enter administration mode. The red lights go on next to Administer and Restrict.
- 3 Touch Administer. The console beeps twice.
- 4 Continue to administer the system, or leave administration mode.

### Reversing the Procedure

If you ever have to reset your system to toll-prefix dialing, follow the above procedure but dial \*36 instead of \*37 in step 2.

### TRANSFER RETURN INTERVAL

Locate the column headed "Transfer Return Interval" on the System Configuration Form. If the box next to "\_\_\_\_\_ Rings" is checked and the number 4 is filled in, the system is factory set to return unanswered transferred calls after four rings. You don't have to do anything.

But if the "No Rings" box is checked, or the "\_\_\_ \_ Rings" box is filled in with a number other than 4, then you have to change the system as follows:

- Enter administration mode.
- Dial \*2 plus the number of rings (0 through 9) you want before a call returns.

NOTE: If 0 is selected, calls will not be transferred back to the originator.

- 3 Touch Administer. The console beeps twice.
- Continue to administer the system or leave administration mode.

#### CALL REPORT

If you have the optional data collector and printer necessary to generate Call Reports, you can keep records of incoming and outgoing calls. You will first need to set the date using the following procedure:

- Enter administration mode. The red lights go on next to Administer and Restrict.
- Dial \*80.
- 3 Dial two digits for the month (01 through 12).
- 4 Dial two digits for the day (01 through 31).
- Dial two digits for the year (00 through 99).
- Touch Administer. The console beeps twice.
- Continue to administer the system, or leave administration mode.

Now set the time:

 Enter administration mode. The red lights go on next to Administer and Restrict.

- Dial \*81.
- 3 Dial two digits for the hour (00 through 23) using 24-hour time.
- Dial two digits for the minute (00 through 59).
- Touch Administer. The console beens twice.
- 6 Continue to administer the system, or leave administration mode.

Since the system is factory set to have no calls reported, you must now select the type of calls you want reported. Locate the column headed "Call Report" on the System Configuration Form and follow the appropriate procedure below:

- Enter administration mode. The red lights go on next to Administer and Restrict.
- Dial \*84.
- Dial a number code 0 through 2 to specify the kind of calls to be reported:
  - If you do not want any calls reported, dial 0.
  - If you only want outgoing calls reported, dial 1.
  - If you want outgoing and incoming calls reported, dial 2.
- 4 Touch Administer. The console beeps twice.
- 5 Continue to administer the system, or leave administration mode.

Once you've selected the type of report, you need to specify the duration of the calls reported. If you filled in "1" next to "Minimum Duration of Recorded Calls," you don't have to do anything here since the system is set for one minute. If you specified another duration (0, or 2 through 9) follow this procedure:

- Enter administration mode. The red lights go on next to Administer and Restrict.
- Dial \*83.
- Dial one digit from 0 to 9 for the number of minutes.
- 4 Touch Administer. The console beeps twice.
- 5 Continue to administer the system, or leave administration mode.

### MUSIC-ON-HOLD

If you have an optional audio source and want to control the volume through system administration, locate the column headed "Music-on-Hold" on the System Configuration Form, then dial the appropriate code given in the procedure below:

- Enter administration mode. The red lights go on next to Administer and Restrict.
- 2 Dial one of the following codes to set the volume you prefer:
  - Dial \*12 to turn off Music-on-Hold.
  - Dial \*13 to set the volume to low.

- Dial \*14 to set the volume to medium.
- Dial \*15 to set the volume to high.
- 3 Touch Administer. The console beeps treice.
- 4 Continue to administer the system, or leave administration mode.

#### BACKGROUND MUSIC

If you have an optional audio source connected to the Music-on-Hold jack and an optional loudspeaker paging system, you can regulate the volume of background music with a dial code in system administration. Locate the column headed "Background Music" on the System Configuration Form, then dial the appropriate code given in the procedure below:

- Enter administration mode. The red lights go on next to Administer and Restrict.
- Dial one of the following codes to set the volume you prefer:
  - Dial \*16 to turn off the background music.
  - Dial \*17 to set the volume to low.
  - Dial \*18 to set the volume to medium.
  - Dial \*19 to set the volume to high.
- 3 Touch Administer. The console beeps twice.
- 4 Continue to administer the system, or leave administration mode.

### HOLD DISCONNECT INTERVAL

If you placed a check mark in the column marked "Short" under "Hold Disconnect Interval\* on the System Configuration Form, then your local telephone company uses the 50 millisecond disconnect interval instead of the 450 millisecond interval.

You must administer the setting for each incoming line on the system, as follows:

- Enter administration mode. The red lights go on next to Administer and Restrict.
- 2 Dial \*69.
- Touch each incoming line button to change the disconnect interval.

Green light on = line assigned the long disconnect interval Green light off = line assigned the short disconnect interval

- Touch Administer. The console beeps twice.
- Continue to administer the system, or leave administration mode.

### VOICE TERMINAL JACK ASSIGNMENTS

Your MERLIN Plus system has twenty jacks for voice terminals and special features. If you are using the ASA features (CF, DXD, RLA, or SA), Busy Buster (BB), Call Report, or System Feature Report (Reports), you need to assign a jack for them. The 'Voice Terminal' form indicates the default jack assignments for these features and the main attendant, if you have changed

these assignments on your form, use the appropriate procedure below to change the jack assignments accordingly:

NOTE: You cannot reassign any of the following features to jack 10 since it is reserved for the main attendant.

Changing the Automatic System Access (ASA) jack assignment:

- Enter administration mode.
   The red lights go on next to Administer and Restrict.
- 2 Dial \*59.
  The green light goes on next to the Auto Intercom button of the jack assigned to ASA.
- 3 Perform one of the following procedures:
  - Touch the Auto Intercom button of the jack you want to assign to ASA.
    The green light goes off next to the old Auto Intercom button, and the green light goes on next to the newly assigned Auto Intercom button.
  - Dial the intercom number of jack you're assigning to ASA.

NOTE: If you hear a denial tone, the feature is on or the VSP port is active. You can either wait or turn off the feature.

- 4 Touch Administer. The console beeps twice.
- 5 Continue to administer the system, or leave administration mode.

Changing the Busy Buster (BB) jack assignment:

NOTE: If you are going to use the Call Report or System Feature Report option, you can assign BB to the same jack as ASA by using the adapter provided with the optional data collector or memory module.

- Enter administration mode.
   The red lights go on next to Administer and Restrict.
- 2 Dial \*35.
  The green light goes on next to the Auto Intercom button of the jack assigned to BB.
- 3 Perform one of the following procedures:
  - Touch the Auto Intercom button of the jack you want to assign to BB.
    The green light goes off next to the old Auto Intercom button, and the green light goes on next to the newly assigned Auto Intercom button.
  - Dial the intercom number of jack you're assigning to BB.
  - 4 Touch Administer. The console beeps twice.
  - 5 Continue to administer the system, or leave administration mode.

Changing the Reports jack assignment for Call Report:

NOTE: If you are using the same printer and data collector for producing Call Reports and System Feature Reports, you must administer the new jack assignment for both features.

- Enter administration mode. The red lights go on next to Administer and Restrict.
- The green light goes on next to the Auto Interco... button of the jack assigned to Call Report.
- 3 Perform one of the following procedures:
  - Touch the Auto Intercom button of the jack you want to assign to Call Report.

The green light goes off next to the old Auto Intercom button, and the green light goes on next to the newly assigned Auto Intercom button.

- Dial the intercom number of jack you're assigning to Call Report.
- Touch Administer.

The console beeps twice.

Continue to administer the system, or leave administration mode.

Changing the Reports jack assignment for System Feature Report:

NOTE: If you are using the same printer and data collector for producing Call Reports and System Feature Reports, you must administer the new jack assignment for both features.

- Enter administration mode. The red lights go on next to Administer and Restrict.
- 2 Dial \*85. The green light goes on next to the Auto Intercom button of the jack assigned to System Feature Report.
- Perform one of the following procedures:
  - Touch the Auto Intercom button of the jack you want to assign to System Feature Report. The green light goes off next to the old Auto Intercom button, and the green light goes on next to the newly assigned Auto Intercom button.
  - Dial the intercom number of jack you're assigning to System Feature
- 4 Touch Administer.

The console beeps twice.

Continue to administer the system, or leave administration mode.

Assigning an Alternate Attendant position:

- Enter administration mode. The red lights go on next to Administer and Restrict.
- Dial \*79.
- Perform one of the following procedures:
  - Touch the Auto Intercom button of the voice terminal you want to assign as the Alternate Attendant position.
  - Dial the intercom number of voice terminal you're assigning for the Alternate Attendant.

Touch Administer.

The console beeps twice.

Continue to administer the system, or leave administration mode.

#### PAGING GROUPS

When you filled in the "Paging Groups" columns on the System Configuration Form, you learned the following about paging groups:

- All voice terminals are automatically assigned to a single paging group, the Page-All Group, which you cannot change.
- Intercoms 10 through 19 are automatically assigned to Page Group 1; intercoms 20 through 29 are automatically assigned to Page Group 2.
- You can assign the same voice terminal to both paging groups.
- If you are using a BIS-10 or a BIS-22 voice terminal, you must administer the Group Page feature in a slightly different way.

Look at the "Paging Groups" columns on the System Configuration Form. If you plan to keep intercoms 10 through 19 in Page Group 1 and the remaining intercoms in Page Group 2, you don't have to do anything here. If you plan to change the makeup of the paging groups, follow the procedure below:

- Enter administration mode. The red lights go on next to Administer and Restrict.
- 2 Dial \*71 for Page Group 1 or \*72 for Page Group 2. If you have the corresponding Auto Intercom buttons, a green light goes on next to each one that already is assigned to that paging group.
- 3 Perform one of the following procedures:
  - Touch the appropriate Auto Intercom button(s). The green liga, goes on.
  - Dial a code from the Dial Code chart (located earlier in this section under "Using the BIS-22 Voice Terminal as an Administrator Console") that corresponds with the voice terminal.
- 4 Touch Administer. The console beeps twice.
  - 5 Follow steps 2 through 4 for each paging group you want to administer.
  - Continue to administer the system, or leave administration mode.

### VOICE TERMINAL TEMPLATES

If you have entered a number 1 through 4 under the "Template" column of your "Voice Terminal" form, use the following procedure to assign the template to the voice terminal:

- Enter administration mode. The red lights go on next to Administer and Restrict.
- Dial \*10 followed by the option number of the template:

Clear Template

2 = Dialer Template

3 = Feature Template

4 = Receptionist/Secretary Template

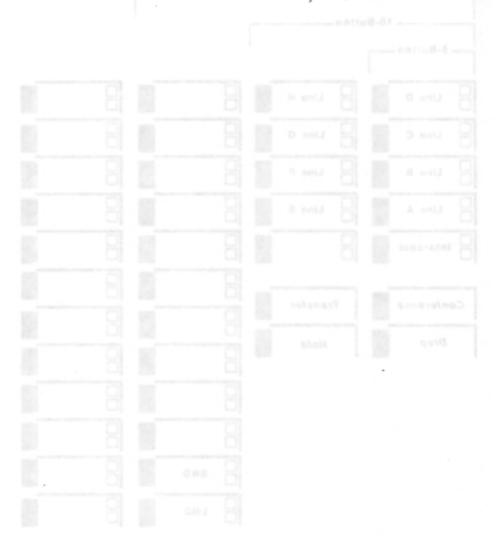
Touch the Auto Intercom button or dial the intercom number of the source voice terminal(s).

The console beeps twice after each voice terminal is administered a template.

- Touch Administer. The console beeps twice.
- Label the target voice terminal buttons with the corresponding features as shown in Figures 3-4, 3-5, 3-6, and 3-7.

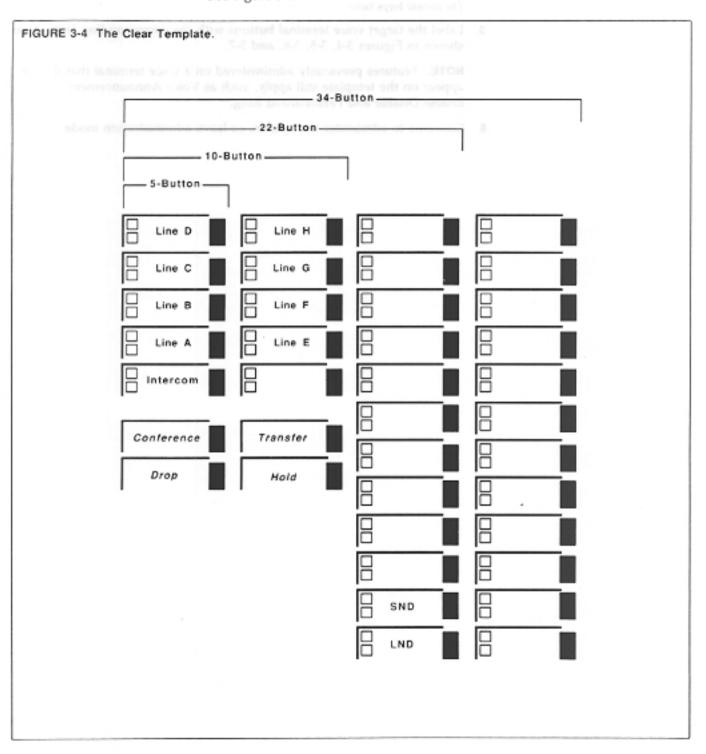
NOTE: Features previously administered on a voice terminal that do not appear on the template still apply, such as Voice Announcement Enable/Disable and Personalized Ring.

Continue to administer the system, or leave administration mode.



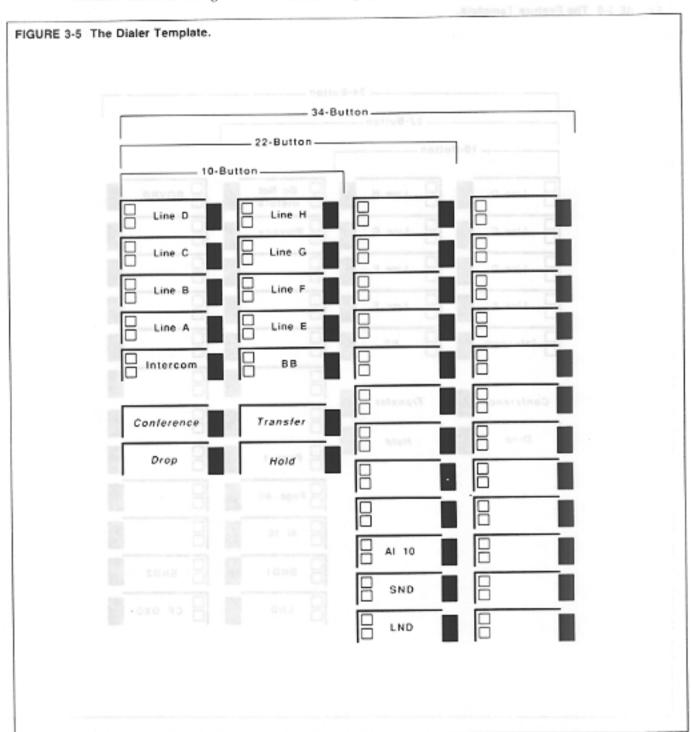
## Option 1: Clear Template

This template is used to erase previously programmed features on a voice terminal so that new features can be assigned. The Clear Template removes any features assigned to a voice terminal, but does not erase line assignments. See Figure 3-4.



Option 2: Dialer Template

This template is for personnel who do not require special features, and who are likely to have no need to make toll calls. This template can be assigned to even the smallest voice terminals, including the 5-button voice terminals. See Figure 3-5 for button assignments.



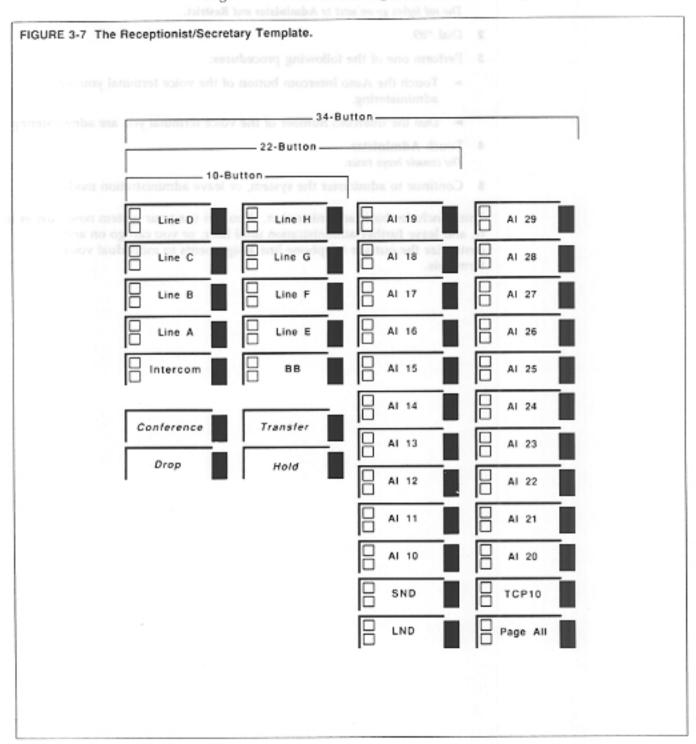
# Option 3: Feature Template

This template is designed for managers, owners, and personnel who need unrestricted phone use along with several additional features. This template is for 22-button or larger voice terminals. See Figure 3-6 for button assignments.

|            | 34-6      | Button ————    |           |
|------------|-----------|----------------|-----------|
|            | 22-Button | v4-14          | 1         |
| 10-B       | lutton    | notted 55      |           |
| Line D     | Line H    | Do Not Disturb | ROVED     |
| Line C     | Line G    | Privacy        |           |
| Line B     | Line F    | 8              |           |
| Line A     | Line E    | 8              | 8         |
| Intercom   | ВВ        | 8              |           |
|            |           | 8              | 8         |
| Conterence | Transfer  | Teanster -     | Contenent |
| Drop       | Hold      | Page 1         | 8 4000    |
|            |           | Page All       | B ·       |
|            |           | - AI 10        |           |
|            |           | SND1           | SND2      |
|            |           |                | CF DXD    |
| 8          |           |                | □ cr pvp  |

# Option 4: Receptionist/Secretary Template

This template is for receptionists, secretaries, and backup call handlers, including the system attendant, and is designed for use with 22-button or larger voice terminals. See Figure 3-7 for button assignments.



### PROGRAM MODE LOCK

If you placed a check mark in the "Lock" column of the "Voice Terminal" form you want to prevent the voice terminal from reprogramming any of the features assigned to it. Use the procedure below:

- Enter administration mode.
   The red lights go on next to Administer and Restrict.
- 2 Dial \*89.
- 3 Perform one of the following procedures:
  - Touch the Auto Intercom button of the voice terminal you are administering.
  - Dial the intercom number of the voice terminal you are administering.
- 4 Touch Administer. The console beeps twice.
- 5 Continue to administer the system, or leave administration mode.

This concludes basic administration. You can use your system now, just as it is, and leave further administration until later, or you can go on and customize the outside telephone line assignments to individual voice terminals.

# Line Assignments for Voice Terminals

As you filled out the Line Assignments Form, you learned that customizing line assignments to voice terminals can help control costs and increase the efficiency of your communications system. All the information you need to customize line assignments should be on the Line Assignments Form.

When you enter administration mode and touch the Auto Intercom button for a voice terminal, the green lights next to the line buttons on the console show you which outside lines are currently assigned to that voice terminal.

Green light on = line is assigned to the voice terminal Green light off = line is not assigned to the voice terminal

Your system comes from the factory configured so that all your outside lines appear on the same line buttons on every voice terminal. These are the system's original line assignments. A voice terminal retains its original line assignments until someone administers it differently. If this is the first time anyone has administered your system, all your voice terminals should have their original line assignments.

NOTE: If you have not performed the procedure under the heading "Outside Telephone Lines" earlier in this section, the green lights next to the line buttons on your administrator/attendant console may show that your system has more outside lines than it really has. If this is the case, go back now to "Basic Administration" and enter the correct number of outside lines following the instructions under the heading, "Outside Telephone Lines."

MERLIN Plus system line administration offers two choices:

- You can keep the original line assignments on some or all of your voice terminals.
- You can customize the line assignments to some or all of your voice terminals to suit the needs of your business and voice terminal users.

### ORIGINAL LINE ASSIGNMENTS

On the Line Assignments Form, find the voice terminals that are keeping their original line assignments, then do the following:

- Enter administration mode.
   The red lights go on next to Administer and Restrict.
- One after another, touch the Auto Intercom buttons for each of these voice terminals.

The green lights next to the line buttons should show that all of your outside lines appear on each of these voice terminals. If you discover that one or more lines do not appear on a voice terminal designated to keep the original line assignments, you can use the procedure in the entry for "Customized Line Assignments" in Section 5, "Reference," to give that voice terminal the original line assignments.

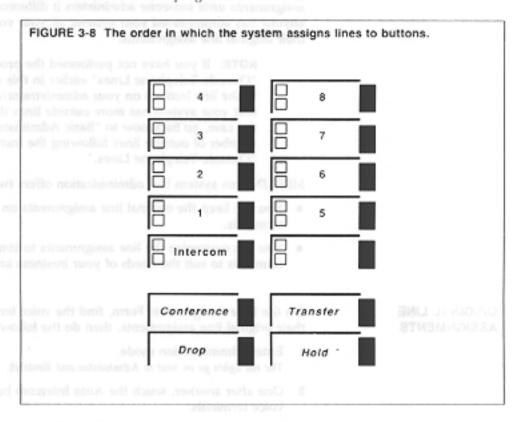
3 Leave administration mode.

## CUSTOMIZED LINE ASSIGNMENTS

The check marks to the right of the intercom numbers on the Line Assignments Form should show how you plan to customize the line assignments to voice terminals.

Customizing a voice terminal's line assignments is simply a matter of removing and adding lines. But keep the following points in mind:

- On every voice terminal (except a 5-button model), the button directly above Conference is always the Intercom button. You can't assign a line or feature to it.
- On every voice terminal (except a 5-button model), the button above Transfer is always a programmable feature button. You can't assign a line to it.
- When you assign lines to a voice terminal, the system assigns them to line buttons in the order shown in Figure 3-8 below. This sequence is also the voice terminal's automatic line selection sequence—the order in which the system selects lines for the voice terminal's outgoing calls—unless you program a different automatic line selection sequence.
- On any voice terminal, line buttons without lines assigned to them can have feature buttons programmed on them.



To assign lines to a voice terminal:

- Enter administration mode.
   The red lights go on next to Administer and Restrict.
- 2 Perform one of the following procedures:
  - Touch the Auto Intercom button for the voice terminal you're administering.
    - A green light goes on next to the Auto Intercombutton. Green lights also go on next to the buttons of any lines already assigned to the voice terminal.
  - Dial the intercom number for the voice terminal you are administering.
     Green lights go on next to the buttons of any lines already assigned to the voice terminal.

- 3 Touch all the line buttons that have a green light on next to them.
  The green light next to each line button goes off.
- 4 In the order that you want lines to appear on the voice terminal, touch all the line buttons again. If you want to reserve a button(s) for feature programming, touch that button(s) last.
  Green lights go on next to the buttons you touch.
- The console beeps twice.
  - 6. Continue to administer the system, or leave administration mode.

### BUTTON-FREE LINE OPERATION

If you selected Button-Free Line Operation, so that incoming lines on a voice terminal are not assigned to buttons, you can administer whether or not calls should ring at the voice terminal. If the voice terminal is in a public place, such as a building lobby, you can select the no ring option.

If you entered "R" for Immediate Ring/Button-Free Line Operation or "N" for No Ring/Button-Free Line Operation on the Line Assignments for Voice Terminals form, follow the procedure below:

- Enter administration mode.
   The red lights go on next to Administer and Restrict.
- 2 Follow the appropriate procedure:
  - Touch the Auto Intercom button for the voice terminal you're administering.
     The green light goes on.
  - Dial the intercom number for the voice terminal you're administering.
- 3 Touch the line button until the green light shows the assignment you want:

Green light on = the line is assigned to the voice terminal
Green light off = the line is not assigned to the voice terminal

- 4 To make the line Button Free, dial one of these two codes:
  - Dial \*31 if you want the voice terminal to ring.
     The green light next to the Auto Intercom button flashes rapidly.
  - Dial \*32 if you do not want the voice terminal to ring.
     The green light next to the Auto Intercom button flashes slowly.
- 5 Touch Administer.
  The console beeps twice.
- Continue with administration, or leave administration mode.

### LINE ASSIGNMENTS FOR ASA FEATURES

The four ASA features require the assignment of incoming lines and one requires the additional assignment of outgoing lines.

# Call Forwarding (CF)

If there is an "I" and an "O" entered under two lines in this row, perform the following procedure to administer the incoming and outgoing call forwarding lines:

 Enter administration mode. The red lights go on next to Administer and Restrict.

- 2 Dial the code for the type of line group you want to administer:
  - Dial \*51 for a Call Forwarding incoming line group.
  - Dial \*52 for a Call Forwarding outgoing line group.
- 3 Touch the line buttons until the green lights show the assignments you want to each line group.

Green light on = line is assigned to the group line is not assigned to the group Green light off

4 Touch Administer.

The console beeps twice.

5 Continue to administer the system, or leave administration mode.

If you entered a number other than 2 in the "Ring Interval" column for call forwarding, follow the procedure below to change the ring interval for incoming CF calls:

- Enter administration mode. The red lights go on next to Administer and Restrict.
- 2 Dial \*762 plus the number of rings (0 through 9).

NOTE: If 0 is selected, the voice terminal will not ring, and calls will be forwarded immediately.

3 Touch Administer.

The console beeps twice.

4 Continue to administer the system, or leave administration mode.

If you put a telephone number in the column headed "Modify Message" for Call Forwarding, follow the procedure below:

- Enter administration mode. The red lights go on next to Administer and Restrict.
- Touch the line button for the line on which you want to hear the modified message.

The green light goes on.

Dial the telephone number you want to include in the message.

NOTE: For special phone numbers, such as 800 numbers, you may prefer to have the recorded voice pronounce the number as "Eight hundred" followed by the number, instead of "Eight, zero, zero." To do this, touch Hold to enter a pause after the toll prefix and again after the 800 area code and then again after the exchange. For example, 1-800-555-1212 would be entered as: 1 HOLD 800 HOLD 555 HOLD 1212

- 5 Repeat the procedure for each line you are administering.
- Touch Administer.
- Continue to administer the system, or leave administration mode.

If you put a "0" in the column headed "Modify Message" for CF, follow this procedure to turn off the voice message:

- Enter administration mode.
   The red lights go on next to Administer and Restrict.
- 2 Dial \*30.
- 3 Dial 0 to turn off the message.

NOTE: To turn on the message, dial 1 instead of 0 in step 3.

- 4 Touch Administer.

  The console beeps twice.
- 5 Continue to administer the system, or leave administration mode.

To enter or change the call forwarding destination number from the

- Enter administration mode.

  The red lights go on next to Administer and Restrict.
  - 2 Dial \*53.
  - 3 Dial the destination number.
    - 4 Touch Administer. The console beeps twice.
    - 5 Continue to administer the system, or leave administration mode.

# Direct Extension Dialing (DXD)

If there is an "I" entered in this row, perform the following procedure to administer the incoming Direct Extension Dialing line(s):

- Enter administration mode.
   The red lights go on next to Administer and Restrict.
  - 2 Dial \*58 for the Direct Extension Dialing incoming line group.
  - 3 Touch the line buttons until the green lights show the assignments you want.

Green light on = line is assigned to DXD

Green light off = line is not assigned to DXD

4 Touch Administer. The console beeps twice.

5 Continue to administer the system, or leave administration mode.

If you entered a number other than 2 in the "Ring Interval" column for Direct Extension Dialing, follow the procedure below to change the ring interval for incoming DXD calls:

- Enter administration mode.
   The red lights go on next to Administer and Restrict.
- 2 Dial \*761 plus the number of rings (0 through 9).

NOTE: If 0 is selected, the voice terminal will not ring, and calls will be answered immediately.

- Touch Administer.
   The console beeps twice.
- 4 Continue to administer the system, or leave administration mode.

If you put a telephone number in the column headed "Modify Message" for DXD, follow the procedure below:

- Enter administration mode. The red lights go on next to Administer and Restrict.
- Touch the line button for the line on which you want to hear the modified message. The green light goes on.
- 4 Dial the telephone number you want to include in the message.

NOTE: For special phone numbers, such as 800 numbers, you may prefer to have the recorded voice pronounce the number as "Eight hundred" followed by the number, instead of "Eight, zero, zero." To do this, touch Hold to enter a pause after the toll prefix and again after the 800 area code and then again after the exchange. For example, 1-800-555-1212 would be entered as: 1 HOLD 800 HOLD 555 HOLD 1212.

- Repeat the procedure for each line you are administering.
- Touch Administer.
- Continue to administer the system, or leave administration mode.

### Remote Line Access (RLA)

If there is an "I" entered in this row, perform the following procedure to administer the incoming Remote Line Access line group:

- Enter administration mode. The red lights go on next to Administer and Restrict.
- Dial \*54 for the Remote Line Access incoming line group.
- Touch the line buttons until the green lights show the assignments you

Green light on line is assigned to RLA line is not assigned to RLA Green light off

4 Touch Administer. The console beeps twice.

5 Continue to administer the system, or leave administration mode.

If you entered a number other than 2 in the "Ring Interval" column for RLA, follow the procedure below to change the ring interval for incoming RLA calls:

- Enter administration mode. The red lights go on next to Administer and Restrict.
- Dial \*763 plus the number of rings (0 through 9).

NOTE: If 0 is selected, the voice terminal will not ring, and calls will be answered immediately.

- Touch Administer. The console beeps twice.
- 4 Continue to administer the system, or leave administration mode.

To use RLA, you must assign a 5-digit password (the first two digits are the caller's intercom number) to gain access to the system from a remote location. You also need this password when changing the call forwarding destination number when off-site.

To assign the password, follow this procedure:

- Enter administration mode. The red lights go on next to Administer and Restrict.
- To create a password for a particular intercom number, dial the intercom number plus any three digits except 000.
- Touch Administer. The console beeps twice.
- Continue to administer the system, or leave administration mode.

### System Answer (SA)

If there is an "I" entered in this row, perform the following procedure to administer the incoming System Answer line(s):

- Enter administration mode. The red lights go on next to Administer and Restrict.
- Dial \*75 for the System Answer incoming line group.
- Touch the line buttons until the green lights show the assignments you want.

Green light on line is assigned to SA Green light off line is not assigned to SA

Touch Administer. The console beeps twice.

5 Continue to administer the system, or leave administration mode.

If you entered a number other than 2 in the "Ring Interval" column for SA, follow the procedure below to change the ring interval for incoming SA calls:

- Enter administration mode. The red lights go on next to Administer and Restrict.
- 2 Dial \*764 plus the number of rings (0 through 9).

NOTE: If 0 is selected, the voice terminal will not ring, and calls will be answered immediately.

- Touch Administer. The console beeps treice.
- 4 Continue to administer the system, or leave administration mode.

If you put an entry in the column headed "Modify Message" for SA, follow the procedure below:

Enter administration mode. The red lights go on next to Administer and Restrict.

### 2 Dial \*77 and the message number desired:

0 No voice message; call is placed on hold immediately

1 =

Message says, "Please hold" Message says, "Please hold. Your call will be handled momentarily."

### 3 Touch Administer.

4 Continue to administer the system, or leave administration mode.

This concludes outside line administration. You can go on now to "Systemwide Options," or you can leave further administration for another time.

# Systemwide Options

Now that your MERLIN Plus system is up and running, you can continue with system administration at a pace that best suits your work schedule. Under this heading you'll find a menu of options and features from which to

# CALL RESTRICTIONS TO VOICE TERMINALS

When your system is first installed, all voice terminals are unrestricted. The Call Restrictions Assignment Form should show whether you plan to restrict any of your voice terminals or assign Disallowed or Allowed Lists.

### DISALLOWED LIST

If you plan to prevent all or some voice terminals from making billable calls, you should have filled in one or more entries on the Disallowed List Entry Form and put a check next to each voice terminal being assigned the Disallowed List on the Call Restrictions Assignment Form.

Use the following procedure to set up a Disallowed List:

- Enter administration mode. The red lights go on next to Administer and Restrict. Dial \*09 followed by the Disallowed List code (01 through 20).
- 2 Dial the disallowed number (up to 16 digits). If the number includes wild card digits, touch Hold once for each one.
  - 3 Touch Administer. The console beeps twice.
  - Continue to administer the system, or leave administration mode.

#### ALLOWED LISTS

If you plan to create lists of numbers that restricted voice terminals are allowed to call, you should have filled in one or more of the lists on the Allowed List Entry Form. As the directory shows, you can have up to eight Allowed Lists with up to 10 entries on each list.

To set up an Allowed List:

 Enter administration mode. The red lights go on next to Administer and Restrict.

Dial a \* and a 2-digit code (01 through 08) that corresponds to the number of the list.

- 2 Dial the 2-digit number of the item in the Allowed List (between 01 and
- 3 Dial the allowed number, toll-prefix, and area code, if necessary, or exchange to be added to the list (maximum eight digits).
- 4 Touch Administer. The console beeps twice.
- Continue to administer the system, or leave administration mode.

### CALL RESTRICTIONS ASSIGNMENT FORMS

For those voice terminals with a check mark in the "Disallowed List" column on the form, follow the procedure below:

Enter administration mode. The red lights go on next to Administer and Restrict.

- Dial \*0900.
- Follow the appropriate procedure below:

NOTE: To assign the Disallowed List to all voice terminals, touch Conference.

- Touch the Auto Intercom button for the voice terminal you want to assign the Disallowed List. The green light goes on next to the Auto Intercom button.
- Dial the appropriate code from the Dial Code chart located earlier in this section under the heading "The BIS-22 Voice Terminal Used as an Administrator Console\* for the voice terminal to which the Disallowed List is to be assigned.
- Touch Administer. The console beeps twice.
- Continue to administer the system, or leave administration mode.

For those voice terminals with a check mark in the "Unrestricted" column on the form, you don't have to do anything here because when your system is first installed, all voice terminals are unrestricted.

Check marks in the 'Toll Restricted' and 'Outward Restricted' columns show the type of restriction you want to place on the voice terminal.

To assign either outward call restrictions or toll call restrictions to voice terminals, follow the procedure below:

- Enter administration mode. The red lights go on next to Administer and Restrict.
- Follow the appropriate procedure:
  - ► Touch the Auto Intercom button of the voice terminal you want to restrict.
  - Dial the intercom number of the voice terminal you want to restrict.
- 3 Touch Restrict until the green light next to it shows the kind of call restriction you want the voice terminal to have:

Steady green light on Unrestricted (all calls permitted) Flashing green light = Toll restricted (local and intercom calls only) Green light off Outward restricted (intercom calls only)

- Touch Administer. The console beeps troice.
- 5 Continue to administer the system, or leave administration mode.

For restricted voice terminals, if there is a check mark in one or more of the "Allowed List Assigned" columns, do the following:

- Enter administration mode. The red lights go on next to Administer and Restrict.
- 2 Dial a \* and a two-digit code (01 through 08) that corresponds to the list you checked off to assign to the voice terminal.

The green light goes on next to the Auto Intercom button for each voice terminal that has been assigned this list.

- 4 Perform one of the following procedures:
  - Touch the Auto Intercom button for the voice terminal that you want to assign the list.
  - Use the appropriate code from the Dial Code chart earlier in this section under the heading "Using the BIS-22 Voice Terminal as an Administrator Console" for the voice terminal to which the allowed list is to be assigned.
- 5 Touch Administer. The console beens twice.
- Continue to administer the system, or leave administration mode.

#### SYSTEM SPEED DIAL

You can assign System Speed Dial codes to frequently called telephone numbers or to account numbers you want to appear on call reports (if you have the Call Report option). All system voice terminals will have access to these System Speed Dial codes.

### Assigning Codes to Telephone Numbers

As you learned when you planned your system, you can store telephone numbers under System Speed Dial codes with or without Restriction Override. You can also specify which telephone numbers stored under codes will be printed out in full on call reports and which will be identified in the reports by System Speed Dial code only. Your System Speed Dial Form should show which, if any, numbers you have designated for Restriction Override and which, if any, you have designated as private (that is, not to be printed on Call Reports).

To assign System Speed Dial codes:

- Enter administration mode. The red lights go on next to Administer and Restrict.
- Dial the code (#60 through #89 or #900 through #999) that you are assigning to the telephone number.
- 3 Dial one of the following codes:
  - If you did not put a check mark in the "Restriction Override" column, dial \*90.
  - If you put a check mark in the "Restriction Override" column, dial
- Dial the telephone number. If you checked the "Private" column next to the number, dial a \* before the telephone number.

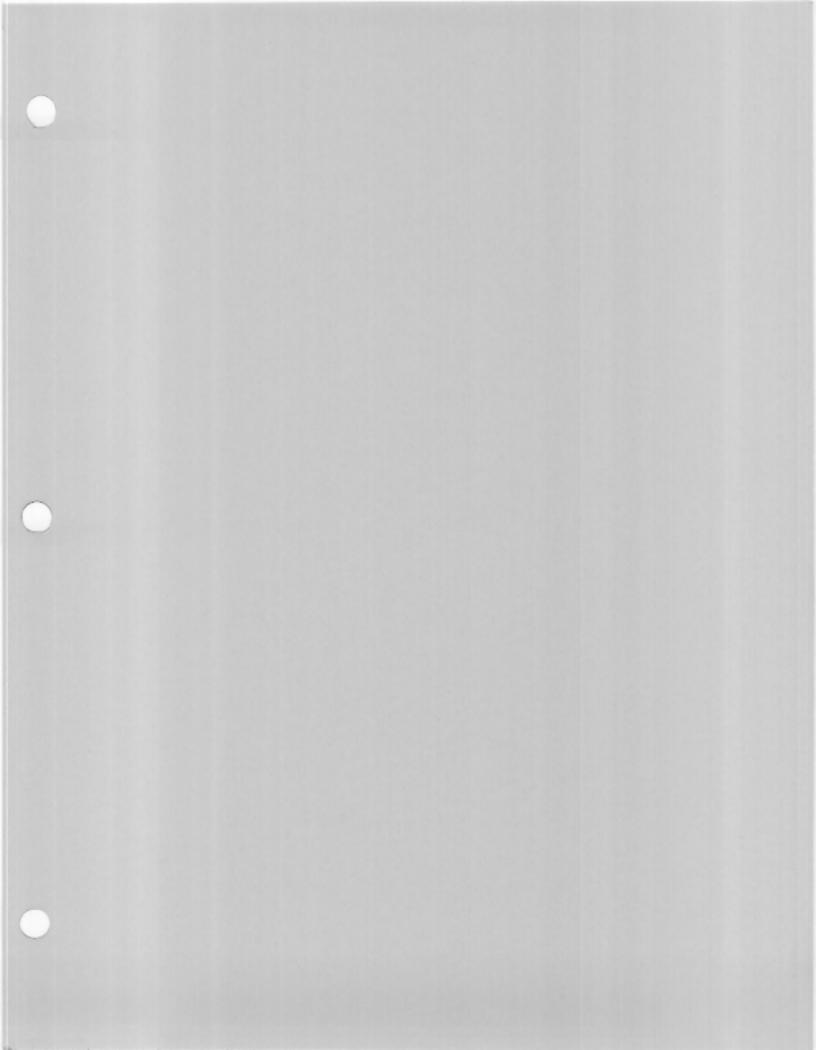
NOTE: Private numbers will not appear on Call Reports or on display voice terminals. However, private numbers will appear on System Feature Reports.

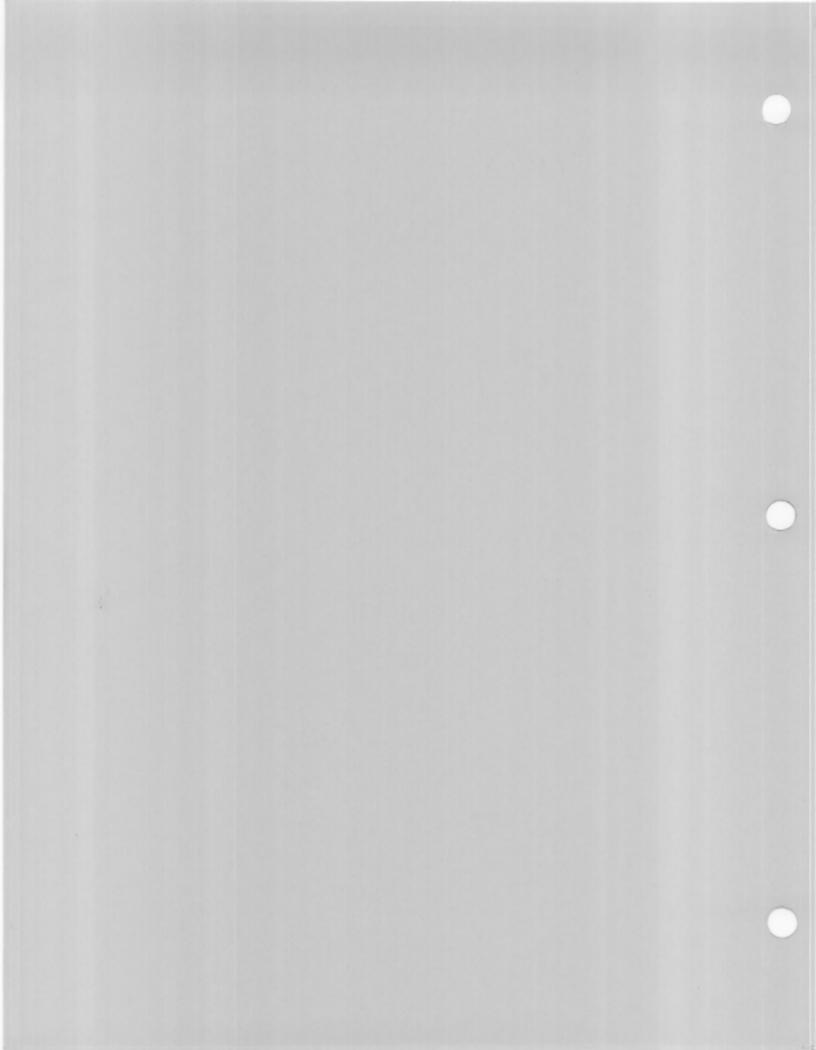
- Touch Administer. The console beeps twice.
- Repeat the steps 2 through 4 for each telephone number to which you are assigning a System Speed Dial code.

7 Continue to administer the system, or leave administration mode.

# Assigning Codes to Account Numbers

An account number on a call report allows you to identify the person or organization to whom the call should be charged. As you learned when you planned your system, you can store account numbers in the system under System Speed Dial codes. Your System Speed Dial Form should show the codes you plan to assign to your account numbers. Then, in step #3 of the above procedure enter the account number instead of the phone number.





# Section 4: Using The Attendant Console

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# Section 4: Using The Attendant Console

Overview

The Attendent Console

# Handting Catla

Transferring Calls
Using Auto Intercom Buttons
Using Group Page Features
Using the Send Message Feature
Selecting Ringing Options
Using Might Service
Activating System Answer
Using an Alternate Attendant Console
Using the Headset
Speakerphone Performance Tips

As your company's system attendant, you will probably answer most calls that come into the business and transfer many of those calls to other people in the office. This section includes descriptions, instructions, and suggestions that will help you transfer calls and use Auto Intercom buttons and Group Page features, the Send Message feature, and the headset. For more information about any of the MERLIN® Plus Communications System features discussed here, refer to Section 5, "Reference."

### THE ATTENDANT CONSOLE

The main attendant console, plugged into jack 10 on the control unit, also serves as the administration console. All of the company's lines appear on separate buttons on this console. It is important, especially if you answer most of the incoming calls, that as the attendant, you have an Auto Intercom button with lights for each voice terminal in the system. Therefore, most attendants use a BIS-34 or BIS-34D model voice terminal that has enough buttons for lines and Auto Intercom buttons. When you plug in your BIS-34 or BIS-34D model voice terminal into intercom jack 10 on the control unit, your console automatically has a button for every line and an Auto Intercom button for every voice terminal in the system.

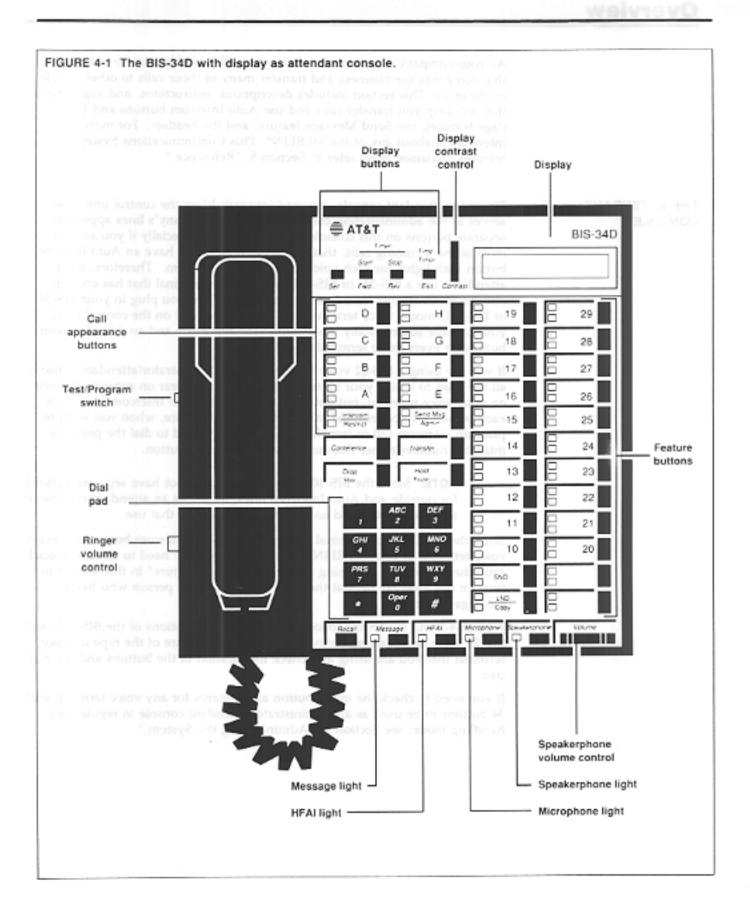
If you are using a BIS-22 voice terminal as an administrator/attendant console, all the lines to which your system has access will appear on separate buttons on your voice terminal, but you may not have an Auto Intercom button for each person's voice terminal in your system. Therefore, when you want to place an intercom call or transfer a call, you may need to dial the person's intercom number rather than use an Auto Intercom button.

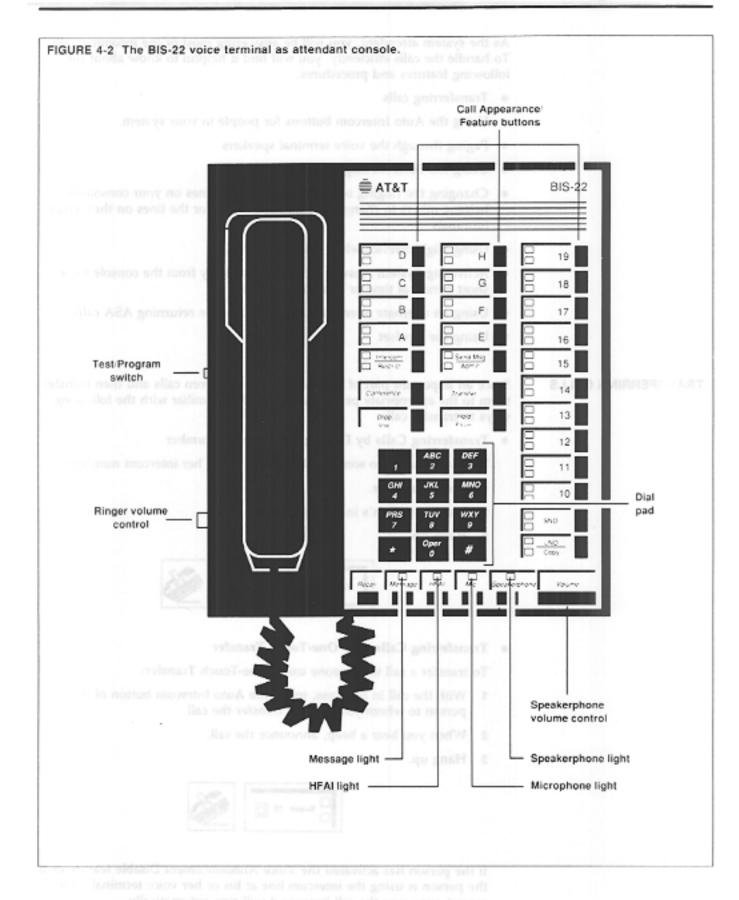
NOTE: Since the BIS-10 voice terminal does not have separate buttons for outside and Auto Intercom lines, its use as an attendant console is severely limited and so not recommended for that use.

Since the BIS-22 voice terminal may not have Auto Intercom buttons for every voice terminal in your MERLIN Plus system, you may need to use the special procedure described in "Using the Send Message Feature" in this section to turn on the Message light at the voice terminal of the person who has a message waiting.

Figures 4-1 and 4-2 on the following pages-are illustrations of the BIS-34D and BIS-22 voice terminals respectively. Look at the picture of the type of voice terminal that you are using and check the location of the buttons and the dial pad.

If you need to check the initial button assignments for any voice terminal with 34 buttons to be used as an administrator/attendant console in regular callhandling mode, see Section 3, "Administering the System."





As the system attendant, you will be answering most of the incoming calls. To handle the calls efficiently, you will find it helpful to know about the following features and procedures:

- Transferring calls
- Using the Auto Intercom buttons for people in your system
- Paging through the voice terminal speakers
- Using the Send Message feature
- Changing the ringing options of the outside lines on your console or helping others to change the ringing options for the lines on their voice
- Using Night Service when you are off duty
- Activating System Answer when you are away from the console for a short period of time or busy on other calls
- Using an alternate attendant position to handle returning ASA calls
- Using the headset

### TRANSFERRING CALLS

Since an important part of your job may be to screen calls and then transfer them to the appropriate people, you should be familiar with the following ways to transfer calls.

Transferring Calls by Dialing the Intercom Number

To transfer a call to someone by dialing his or her intercom number:

- Touch Transfer.
- Dial the person's intercom number.
- Hang up.



Transferring Calls with One-Touch Transfer

To transfer a call to someone using One-Touch Transfer:

- 1 With the call in progress, touch the Auto Intercom button of the person to whom you want to transfer the call.
- When you hear a beep, announce the call.
- Hang up.



If the person has activated the Voice Announcement Disable feature or if the person is using the intercom line at his or her voice terminal, you cannot announce the call because it will ring automatically.

#### Screening Calls

When you screen a call, you first discuss the call with the person to whom it is to be transferred. There are many reasons for consulting about the call. For example, a person may want to obtain a file before taking the call, may be busy and not want to answer the call at the moment, or may want the attendant to answer the call and take a message.

To screen a call:

- Touch Hold.
- Touch Intercom and dial the intercom number of the person to whom the call may be transferred.

Touch the person's Auto Intercom button.

Announce the call and ask if it will be accepted.

NOTE: If the person has activated the Voice Announcement Disable feature or if the person is using the intercom line at his or her voice terminal, you cannot announce the call because it will ring automatically.

If the person chooses not to accept the call:

- Touch the held call's line button.
- Advise the caller.
- Hang up.

If the person chooses to accept the call:

- Advise the person to touch the appropriate line button.
- Hang up.



#### USING AUTO INTERCOM BUTTONS

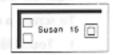
Auto Intercom buttons on your attendant console allow you to handle calls efficiently in several ways:

- Auto Intercom buttons allow you to quickly and easily transfer calls.
- The lights next to Auto Intercom buttons indicate when others in your office are using their voice terminals. If the green light is on next to an Auto Intercom button, it means the person at that intercom number is using the voice terminal or has activated the Do Not Disturb feature.
- If the green light next to the person's Auto Intercom button is flashing, it means that the person is calling you.

Be sure to type or write the names of the people in your office on the appropriate Auto Intercom buttons.

To call someone in your MERLIN Plus system with one touch:

- 1 Touch the Auto Intercom button for the person you want to call.
- 2 When you hear the person answer, begin speaking into your speakerphone or lift the handset and begin speaking.



### USING GROUP PAGE FEATURES

The Group Page feature allows you to make announcements to groups of people or to page individuals for calls. When a call comes in, you can put the call on hold and page the person for whom the call is intended. To use a programmed button to make an announcement through a group of voice terminal speakers:

- Touch the Group Page button for the group you want to page.
- 2 When you hear a beep, touch Speakerphone or lift your handset and make the announcement.



To page a group using a dial code:

- 1 Touch Intercom.
- Touch Speakerphone or lift your handset.
- 3 Dial a code for the group you want to page.

70 = Page-All (all voice terminals in the system)

71 = group 1

72 = group 2

4 When you hear a beep, begin speaking.

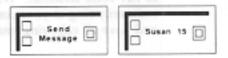


#### USING THE SEND MESSAGE FEATURE

When someone in the MERLIN Plus system has a message, you can turn on the Message light at the person's voice terminal to indicate that there is a message waiting.

- 1 Touch Send Message.
- 2 Touch an Auto Intercom button, if you have one for the person.

Dial the 3-character dial code opposite the person's intercom number as found on the following table.



| If the intercom<br>number is: | Dial this code: | If the intercom<br>number is: | Dial this code: |
|-------------------------------|-----------------|-------------------------------|-----------------|
| Intercom 10                   | #22             | Intercom 20                   | #03             |
| Intercom 11                   | #21             | Intercom 21                   | #04             |
| Intercom 12                   | # 20            | Intercom 22                   | # 05            |
| Intercom 13                   | #19             | Intercom 23                   | #06             |
| Intercom 14                   | # 18            | Intercom 24                   | #07             |
| Intercom 15                   | # 17            | Intercom 25                   | #08             |
| Intercom 16                   | # 16            | Intercom 26                   | #09             |
| Intercom 17                   | # 15            | Intercom 27                   | #10             |
| Intercom 18                   | # 14            | Intercom 28                   | #11             |
| Intercom 19                   | #13             | Intercom 29                   | # 12            |

For example, if you want to turn on the Message light at Intercom 24, but do not have an Auto Intercom button for that person, look for Intercom 24 on the table above. Opposite Intercom 24 you will find the Send Message dial code, #07. Then you would touch Send Message and dial #07 to send the message.

and standard has to tarn off the message light, repeat the steps.





### SELECTING RINGING OPTIONS

You can program any outside line at your console to ring immediately, to ring after a delay, or not ring at all. You will probably want most lines at your console to ring immediately (the factory-set condition), but if you answer calls on a certain line only when someone else doesn't answer them, program that line for delayed ringing. You may want to program the lines at other people's voice terminals for no ring so that they are not interrupted while they work.

If you want someone in the office to answer calls when you are busy or not at your desk, program the lines at that person's voice terminal for delayed ring. The backup person may also want to program a Ring Override button for his or her voice terminal. When the backup person must answer calls that would ordinarily ring at your console, he or she can touch the Ring Override button and have all calls ring immediately at his or her voice terminal.

#### USING NIGHT SERVICE

During the night or on weekends when you are off duty, you can still make it convenient for someone else, such as a guard, to answer calls. You do so with the Night Service feature. There are three ways to provide Night Service for your office:

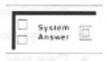
- You can provide the person with a voice terminal that has all the lines, or the person can monitor the attendant console and answer calls there. Be sure that all lines on which calls can come in after hours are set for immediate ring. If the lines are not normally set for this ringing option, the person can activate a Ring Override button that he or she has programmed for the voice terminal. (See "Ring Override" in Section 5, "Reference.")
- The backup person can also answer calls that come in after hours by programming a Call Pickup button so that he or she can pick up calls that come in at the administrator/attendant console. Since the attendant console has all the lines of your MERLIN Plus system, the person answering calls after hours can pick up calls by touching the Call Pickup button whenever the attendant console rings. (See "Call Pickup" in Section 5, "Reference") If the person is in another part of the building, the attendant can connect his or her console and an extra alert device to a Supplementary Alert Adapter (see "Supplementary Alert Adapter" under "Accessory Equipment" in Section 5, "Reference.") so that each time a call comes in, an extra alert device goes on.
- Your system administrator can also administer and activate the Call Forwarding feature for after-hours use. When the system is in Call Forwarding mode, incoming calls on designated lines are connected to a Voice Synthesis Processor (VSP) in the control unit for a message that informs the caller that the call will be forwarded. While the caller is listening to the message, the control unit calls the telephone number to which calls are being forwarded and uses the system's Conference feature to connect the incoming call to the outgoing call. For more information about this feature, refer to "Automatic System Access" in Section 5, "Reference."

#### ACTIVATING SYSTEM ANSWER

You can activate the System Answer feature with a System Answer button so that when selected calls come in, the system automatically answers them, then plays a pre-recorded message before placing them on hold. This feature can only be activated from the attendant console or the alternate attendant console. If your system has an alternate attendant, the System Answer feature must be administered to that voice terminal.

To activate the System Answer feature:

 Touch System Answer. The green light goes on.



#### USING AN ALTERNATE ATTENDANT CONSOLE

When Automatic System Answer (ASA) calls are not answered, they normally return to the main attendant console. However, you may prefer to assign an alternate attendant position to handle just ASA calls; all other calls are directed to the main attendant console. The alternate attendant position is assigned by the system administrator.

If you are assigned the alternate attendant console, you can do anything the main attendant can do, except you cannot turn on message lights at voice terminals nor perform administration procedures from that console. The only calls handled by the alternate attendant are returned ASA calls. For example, if a Direct Extension Dialing (DXD) call is unanswered or busy, the call will be transferred to the alternate attendant console, if one has been assigned.

#### USING THE HEADSET

If you have a heavy call-handling load, you may want to use a headset and headset adapter. (For more information about the headset and the headset adapter that connects the headset to the voice terminal, see Section 5. "Reference.")

To place a call using your headset:

- Touch On/Quiet on the headset adapter. The green light next to the button goes on.
- Dial the outside number.

To answer a call:

Touch On/Quiet on the headset adapter.

To mute the microphone:

Hold down On/Quiet on the headset adapter.

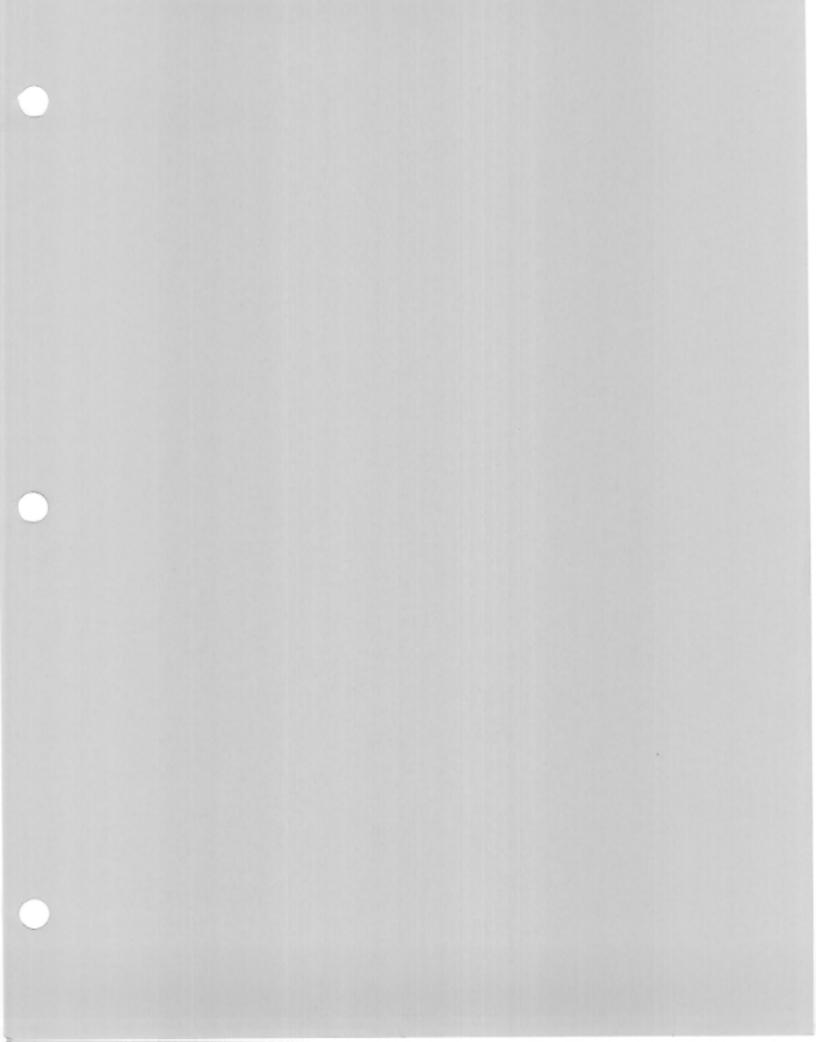
To hang up:

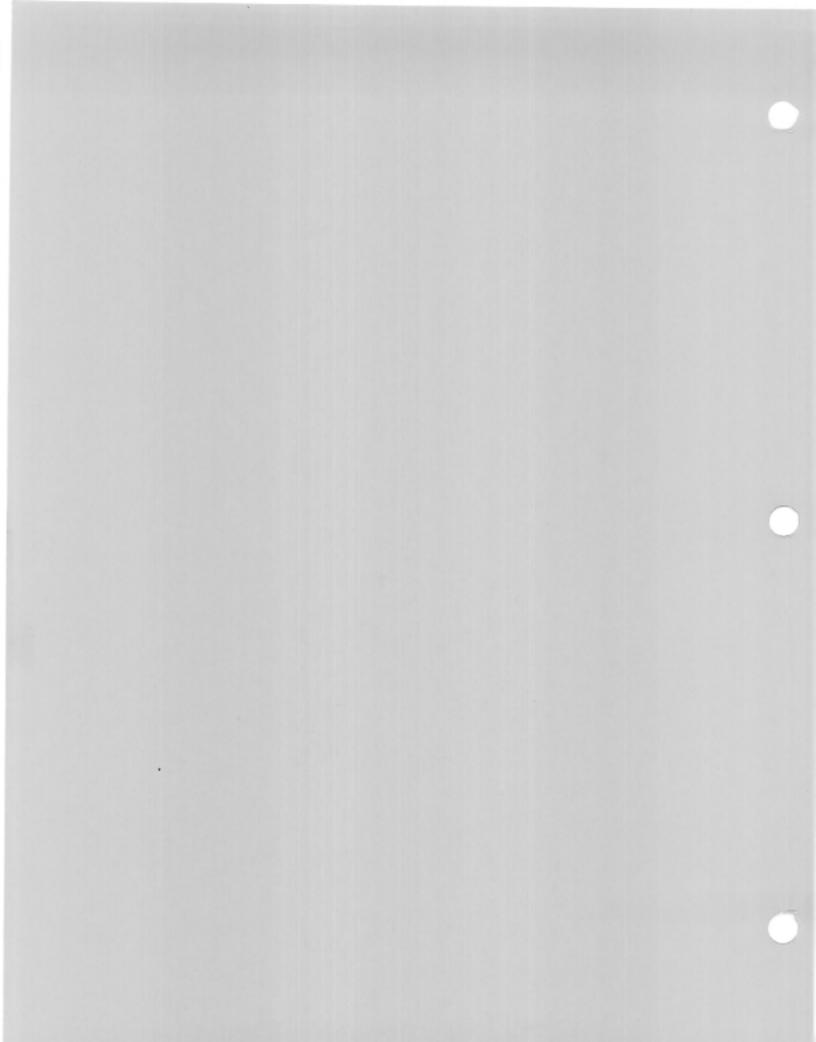
 Touch Off on the headset adapter. The green light next to On/Quiet goes off.

### SPEAKERPHONE PERFORMANCE TIPS

For optimal use of the speakerphone on the BIS, HFAI, or SP voice terminals, follow these guidelines:

- · Place the voice terminal in an area with low background noise.
  - Room acoustics and background noise may affect the proper operation of your voice terminal's speakerphone. High background noise is caused by loud voices and loud electronic devices (radios, typewriters, office equipment, etc.).
- Keep the area under and next to the microphone free of books and papers.
- Let one person talk at a time. When both parties speak at the same time, transmission can be broken.
- · Always face your terminal when talking.
- Place your voice terminal at least six inches away from the edge of the desk or table upon which it rests.





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This section of the MERLIN® Plus System Manual provides the information you need to program, administer, and use the many MERLIN Plus system features. It also tells you how to use the accessory equipment that you can add to your system.

There are two main groups of information in this section:

- MERLIN Plus System Features include those that come with the MERLIN Plus system voice terminal and that individual users can program onto the voice terminal, those features that the attendant uses, and those that the system administrator assigns to the system.
- Accessory Equipment includes the additional hardware that can be used with the MERLIN Plus system.

For your convenience, the individual features and the accessories are listed alphabetically in two separate sections. Therefore, you can quickly refer to the entry for each feature or accessory when you need to use it.

# **MERLIN Plus System Features**

Your MERLIN Plus system offers features that provide effective telephone service both on a business-wide and personal basis. In order to meet company priorities and needs, the system administrator can assign lines and add features that will benefit the whole system. The voice terminals (telephones) in the MERLIN Plus system come ready to use with many preassigned features, such as Transfer and Hold. However, people in your system can also add features to their individual voice terminals, such as Privacy or Saved Number Dial, that will help them handle calls easily and efficiently.

The information included in each feature description in "MERLIN Plus System Features" is divided into five headings:

#### Description

The description of the feature tells what it does and its advantages for those people using it.

#### Considerations

Special considerations include any qualifications the person using the feature should know about. It also includes ways in which the feature can or cannot be used, or other features it can be or cannot be used with.

#### Administration

Administration procedures tell the system administrator how to administer the features using the administrator/attendant console. For complete information on system administration, refer to Section 3, "Administering the System."

#### Programming

The term "Programming" refers to customizing a voice terminal to suit the needs of the person who will be using it. Brief programming instructions and programming codes are included for each programmable feature. Directions for programming features onto available programmable buttons on a voice terminal also appear in the MERLIN Plus System User's Guide.

#### How to Use

Procedures for using each feature are divided into specific steps so that a person can easily and efficiently use his or her voice terminal.

# Abbreviated Ringing

#### DESCRIPTION

When another line rings while you are busy on a call, your voice terminal rings only once. In this way you are aware that you have another call, but it does not interrupt the call in progress.

After the ringing cycle stops, the green light continues to flash to remind you of the other call.

CONSIDERATIONS

None

ADMINISTRATION

None

PROGRAMMING

None

HOW TO USE

If you want to pick up the new call, you can place the call in progress on hold or Exclusive Hold and touch the line button of the new call. You don't need to hang up first.

# Account Number Entry

#### DESCRIPTION

You can use account numbers to identify the department, project, or client to whom the call should be charged. If your system uses the Call Report feature (often referred to as Station Message Detail Recording [SMDR]), you can include these account numbers in the Call Reports. (See "Call Report.")

There are two methods you can use to enter account numbers on a printed Call Report: a quick method and a general method. Most businesses will be satisfied with the quick method of entering account numbers on a Call Report. The general method is recommended for businesses that have many accounts, or in which there is no central accounting organization and users must invent their own codes.

 Option A—The General Method: The general method of entering an account number on a Call Report is to use a programmed Account Number Entry button. While you have a call in progress, you simply touch the Account Number Entry button (a light goes on beside the button so that you know the account number will be entered) and dial all the digits of the account number. You can also program buttons or speed dial codes for frequently used account numbers. If necessary, you can dial extra numbers for subaccounts.

 Option B—The Ouick Method: The quick method of entering an account number on a Call Report is to dial a System Speed Dial code (60 through 89 or 900 through 999) that the system administrator has stored in the system (see "System Speed Dial") or a 3-character Personal Speed Dial code that you have assigned to an account number (see "Personal Speed Dial"). While you have a call in progress, you simply dial the speed dial code that corresponds with the account code. You can dial the code with one touch by programming a System Speed Dial or Personal Speed Dial button.

#### CONSIDERATIONS

This feature can be used only with outside calls; it cannot be used with intercom calls.

If the system administrator has specified that the Call Report feature does not report incoming calls, account codes can be entered only for outgoing calls.

There is a maximum of 16 characters available for an Account Number Entry. The system beeps twice if the administrator attempts to enter more than 16 characters. If the administrator dials fewer than 16 characters, the system. does not beep.

The system administrator should give a copy of the System Speed Dial code assignments to each person in the system who will use those codes.

#### ADMINISTRATION

If your responsibilities do not include system administration, skip this information.

Before you assign a System Speed Dial code (#60 through #89 or #900 through #999) to a specific account number, refer to the System Speed Dial Form that you have filled out.

To administer Account Number Entry codes:

- Enter administration mode by sliding the T/P switch to P and touching. Administer.
- 2 Dial the System Speed Dial code (#60 to #89 or #900 through #999) that you are assigning to the account number. Make certain that you have not already assigned a telephone number to that speed dial code, unless you are making a change.
- Dial \*88.
- 4 Dial the account number.

You can also use a client's telephone number as an account number. For that purpose dial \*88 and then dial the telephone number.

- 5 Touch Administer. The console beeps twice.
- Repeat steps 2 through 5 for each account number or telephone number to which you are assigning a System Speed Dial code.
- Leave administration mode by sliding the T/P switch to the center position.













#### PROGRAMMING

To program a general Account Number Entry button (program this feature on a button with lights):

- Label the button Account Number Entry.
- Slide the T/P switch to P. The voice terminal rings every 5 seconds to remind you that you are programming and that you cannot place or receive calls.
- Touch the button you want to program.
- Dial \*82.
- Slide the T/P switch to the center position.



To program a button for a specific account number or System Speed Dial code assigned to an account number:

- Label the button Account Number plus the name of a client or project.
- Slide the T/P switch to P. The voice terminal rings every 5 seconds to remind you that you are programming and that you cannot place or receive calls.
- Touch the button you want to program.
- Dial \*88 plus the account number.

Dial \*95 plus the System Speed Dial code (60 through 89 and 900 through 999) from a list that your administrator can give you.

Slide the T/P switch to the center position.



#### HOW TO USE

To use a general Account Number Entry button:

- While you have a call in progress, touch Account Number Entry. The green light next to the button goes on.
- Dial the account number of the account to be charged for the call. OF

Dial a System Speed Dial code (#60 through #89 or #900 through #999) for the account number to which you want to charge the call.

Touch Account Number Entry again. The green light goes off.



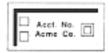
If you enter the account code incorrectly, keep the call in progress and follow this procedure:

- Touch Account Number Entry twice. The green light goes off and back on again.
- Dial \*
- 3 Dial the account number correctly.
- Touch Account Number Entry again. The green light goes off.



To use a button for a specific account number:

While you have a call in progress, touch the programmed Account Number button for the particular account number to be recorded.



## Allowed Lists

#### DESCRIPTION

When the system is installed, people can use their voice terminals to place intercom, local, and toll calls. However, the system administrator can restrict any voice terminal to intercom or local calls. (See "Call Restriction.") If restricted voice terminals require additional calling access, the administrator can designate a list of numbers (an Allowed List) that people may call despite the established restrictions.

#### CONSIDERATIONS

Allowed Lists help you control the cost of your monthly phone bill, but still allow you to place all the business calls you need from any voice terminal in your system.

The administrator may decide to store one or more System Speed Dial codes with Restriction Override. All voice terminals in the system can use those codes as a type of password that allows the person to dial certain outside numbers. Those numbers may be called regardless of toll or outward call restrictions previously placed on a voice terminal. (See "System Speed Dial.")

The system administrator can establish eight Allowed Lists for the system. They are numbered 01 through 08 and each can have a maximum of 10 entries, numbered 01 through 10. Each entry may consist of a toll prefix, if necessary (1 or 0), an area code (for example, 201), and/or an exchange code (for example, 834), and/or emergency numbers (for example, 911).

When the administrator has dialed the maximum eight digits for an Allowed List entry, the system beeps twice to remind the administrator that he or she cannot dial any more digits. If the administrator dials fewer than eight digits, the system does not beep.

#### ADMINISTRATION

If your responsibilities do not include system administration, skip this information.

Before you administer Allowed Lists for your system, refer to the Allowed List Form that you have filled out.

To set up an Allowed List:

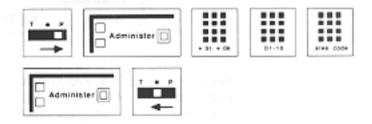
- Enter administration mode by sliding the T/P switch to P and touching Administer.
- 2 Dial a \* and a 2-digit code (01 through 08) that corresponds to the number of the list.

For example, to add an entry to List 5, dial \*05.

- 3 Dial the 2-digit number of the item in the Allowed List (between 01 and
  - For example, to add an entry to List 3 as the first item on the list, dial \*03 01.
- Dial the number, toll-prefix and area code if necessary, or exchange to be added to the list (maximum eight digits).
  - For example, to add the 201 area code with the toll-prefix, and 834 exchange to List 2 as the seventh item on the list, dial \*02 07 1 201 834.
- 5 Touch Administer.

The console beeps twice.

6 Leave administration mode by sliding the T/P switch to the center position.



To delete an entry from an Allowed List:

- Enter administration mode by sliding the T/P switch to P and touching Administer.
- 2 Dial a \* and a 2-digit code (01 through 08) that corresponds to the number of the list.
- 3 Dial the 2-digit item number (01 through 10) of the entry you want to

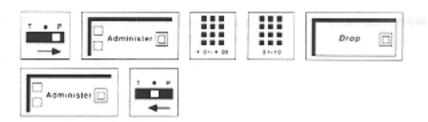
For example, to delete the eighth entry of List 1, dial \*01 08.

Touch Drop.

5 Touch Administer.

The console beeps twice.

Leave administration mode by sliding the T/P switch to the center position.



To clear all the entries from an Allowed List:

- Enter administration mode by sliding the T/P switch to P and touching Administer.
- Dial a \* and a 2-digit code (01 through 08) that corresponds to the number of the list you want to clear.

For example, to clear all entries from List 6, dial \*06.

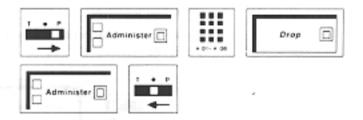
3 Touch Drop.

The console beens twice.

Touch Administer.

The console beeps twice.

Leave administration mode by sliding the T/P switch to the center position.



Before you assign Allowed Lists to voice terminals in your system, refer to the Call Restrictions, Allowed and Disallowed Lists Forms that you have filled out. Then use the following procedures to assign or remove voice terminals for access to Allowed Lists:

- Enter administration mode by sliding the T/P switch to P and touching Administer.
- Dial a \* and a 2-digit code (01 through 08) that corresponds to the list you want to assign to the voice terminal.
- Dial 00.

The green light goes on next to the Auto Intercom button for each voice terminal to which this list is already assigned.

For example, to assign List 2 to a voice terminal, dial \*0200.

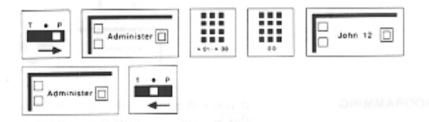
- Perform one of the following procedures:
  - Touch the Auto Intercom button, if you have one, for the voice terminal for which you are giving access or removing access to the Allowed List.

Green light on = the list is assigned to the voice terminal Green light off = the list is not assigned to the voice terminal

- If you do not have an Auto Intercom button for the voice terminal that you want to assign the list to or remove the list from, use the code from the dial code chart in Section 3.
- Touch Administer.

The console beens twice.

Leave administration mode by sliding the T/P switch to the center position.



#### PROGRAMMING

None

#### HOW TO USE

Ask your system administrator what call restrictions, if any, he or she has assigned to your voice terminal.

# Alternate Attendant

#### DESCRIPTION

When Direct Extension Dialing (DXD) calls are not answered, they normally return to the main attendant console. However, an alternate attendant console can be assigned by the system administrator to handle DXD calls that are busy or unanswered. All other calls are directed to the main attendant console.

#### CONSIDERATIONS

The alternate attendant console position can do anything the main attendant position can do, except turn on message lights at voice terminals and perform administration procedures.

The only calls transferred to the alternate attendant console are DXD calls that are busy, dialed incorrectly, or unanswered.

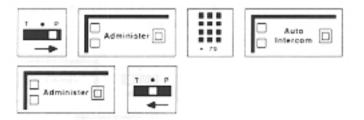
The System Answer (5A) feature must be off when assigning the alternate attendant position.

#### ADMINISTRATION

If your responsibilities do not include system administration, skip this section.

To assign an alternate attendant position:

- Enter administration mode by sliding the T/P switch to P and touching Administer.
- Dial \*79.
- Touch the Auto Intercom button or dial the intercom number of the voice terminal you want to assign as the alternate attendant console.
- Touch Administer. The console beens treice.
- Leave administration mode by sliding the T/P to the center position.



#### PROGRAMMING

If you will be using the System Answer feature, see "System Answer" later in this section, you must program the SA button. Only the attendant or the alternate attendant can have the SA button.

- Label the button "System Answer."
- Slide the T/P switch to P. The voice terminal rings every 5 seconds to remind you that you are programming and that you cannot place or receive calls.
- Touch the button you want to program.
- Dial \*58.
- Slide the T/P switch to the center position.

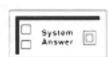


#### HOW TO USE

To activate System Answer from the Alternate Attendant position:

Touch System Answer.

Green light on = SA on Green light off = SA off Green light flashing = Problem with SA



If the green light next to the System Answer button is flashing, notify the system administrator who should refer to Section 7, "Troubleshooting," to correct the problem.

# Auto Answer-All

NOTE: This feature requires a General Purpose Adapter and can be used with a modem, an answering machine, a facsimile machine, or a cordless telephone.

#### DESCRIPTION

If you want an optional piece of equipment, such as a modem, an answering machine, or a facsimile machine, connected to your voice terminal, to turn on automatically when you receive ringing calls, you need to program an Auto Answer-All button.

#### CONSIDERATIONS

You cannot have both the Auto Answer-All and Auto Answer-Intercom features activated at the same time. If you have a Hands-Free Unit (HFU) and Auto Answer-All is activated, all incoming calls will be answered at once.

This feature only answers ringing incoming calls. It will not answer voice announced calls. You should program Voice Announcement Disable on your voice terminal if you want all your incoming calls to ring. (See "Voice Announcement Enable/Disable" later in this section for more information.)

#### ADMINISTRATION

None

#### PROGRAMMING

Program the Auto Answer-All feature on a button with lights. ARTHURGE

To program an Auto Answer-All button for your voice terminal:

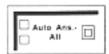
- Label the button Auto Answer-All.
- Slide the T/P switch to P. The voice terminal rings every 5 seconds to remind you that you are programming and that you cannot place or receive calls.
- 3 Touch the button you want to program.
- Dial \*75.
- Slide the T/P switch to the center position.



#### HOW TO USE

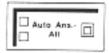
To have a modem, answering machine, or facsimile machine answer calls automatically:

 Touch Auto Answer-All. The green light next to the button goes on.



This feature remains active until you:

 Touch Auto Answer-All again. The green light next to the button goes off.



# Auto Answer-Intercom

NOTE: This feature is used with a Hands-Free Unit.

#### DESCRIPTION

If your voice terminal has the Hands-Free-Answer-on-Intercom (HFAI) feature or is connected to a Hands-Free Unit (HFU), you can have your speakerphone go on automatically whenever you receive an intercom call. To do this with an HFU, you must program an Auto Answer-Intercom button.

#### CONSIDERATIONS

You can have both Auto Answer-Intercom and Auto Answer-All programmed for your voice terminal, but both features cannot be activated at the same time.

### ADMINISTRATION

None

#### PROGRAMMING

Program the Auto Answer-Intercom feature on a button with lights.

To program an Auto Answer-Intercom button for your voice terminal:

- Label the button Auto Answer-Intercom.
- Slide the T/P switch to P. The voice terminal rings every 5 seconds to remind you that you are programming and that you cannot place or receive calls.
- 3 Touch the button you want to program.
- Dial \*70.
- Slide the T/P switch to the center position.







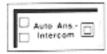


#### HOW TO USE

To have your hands-free unit turn on automatically when you receive intercom calls with voice announcement:

Touch HFAI or Auto Answer-Intercom.

The green light next to the button goes on.



To return to answering calls yourself:

 Touch HFAI or Auto Answer-Intercom again. The green light next to the button goes off.



# Auto Intercom

#### DESCRIPTION

You can use an Auto Intercom button for one-touch dialing of intercom numbers. Program any 2-digit intercom number onto an Auto Intercom button and use the button whenever you want to call the intercom number.

### CONSIDERATIONS

In the MERLIN Plus system, you place an intercom call with a voice announcement. Your co-worker hears your voice through the voice terminal speaker and can respond to you without lifting the handset. If the co-worker does not have a BIS model voice terminal or HFAI enabled, he or she cannot respond to you without lifting the handset.

However, if the person you are calling has activated the Voice Announcement Disable feature, your intercom call rings rather than beeps at the person's voice terminal.

You cannot announce an intercom call to a person active on the voice terminal's speaker.

You cannot have both an Auto Intercom button and a Manual Signaling button for the same person. If you try to program both, you deactivate the one that you programmed earlier. You can use either feature to place an intercom call. (See "Manual Signaling.")

If you program this feature onto a button with lights, the green light next to the button goes on when the person at that intercom number uses the voice terminal or uses the Do Not Disturb feature. When the person calls you, the green light next to the person's Auto Intercom button flashes.

### ADMINISTRATION

None

#### PROGRAMMING

A button with lights is recommended but not required for the Auto Intercom feature.

To program an Auto Intercom button for your voice terminal:

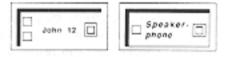
- Label the button with a name and intercom number,
- Slide the T P switch to P. The voice terminal rings every 5 seconds to remind you that you are programming and that tion cannot place or receive calls.
- Touch the button you want to program.
- Dial \*91 plus an intercom number.
- Slide the T/P switch to the center position.



### HOW TO USE

To place an intercom call with one touch:

- 1 Touch the Auto Intercom button for the intercom number you want to dial.
- 2 If you hear a short beep, begin speaking or lift your handset. If you hear a long beep, wait for someone to answer on the other end.



If the line is busy or if no one answers:

Touch Speakerphone to cancel the call.



# Automatic Line Selection

#### DESCRIPTION

You can program the order in which your system selects outside lines when you touch Speakerphone or lift your handset to place a call. For example, you can program the line you use most often to be the first line in the Automatic Line Selection sequence. A line you use less often can be programmed to be the next line the system selects. Then, when you touch

Speakerphone or lift your handset, the system automatically selects the line you usually use. If that line is busy, the system then selects your second choice, such as a WATS or Readyline, unless that line is busy too, and so on.

You can include all or only some of your outside lines in an Automatic Line Selection sequence.

#### CONSIDERATIONS

If you plan to program other features when you program Automatic Line Selection, you must program Automatic Line Selection first. If you are already in the middle of a programming session, slide the T/P switch to the center position and then back to P before programming this feature.

The Automatic Line Selection order is only for outside lines; the line selection does not include intercom lines. However, if you remove all outside lines from your Automatic Line Selection sequence, your system will select an intercom line when you touch Speakerphone or lift the handset. (See "Intercom Preference.")

If you don't program an Automatic Line Selection sequence, you will get outside lines according to the sequence in which they are plugged into the control unit.

#### ADMINISTRATION

None

### PROGRAMMING

To program an Automatic Line Selection sequence for your voice terminal:

- Slide the T/P switch to P. The voice terminal rings every 5 seconds to remind you that you are programming and that you cannot place or receive calls.
- Touch the line buttons in the order you prefer.
- If you want to continue programming other features, dial \*\* again. Otherwise slide the T/P switch to the center position.



#### HOW TO USE

When you want to place an outside call:

 Touch Speakerphone or lift your handset. The MERLIN Plus system connects you to the first available line in the Automatic Line Selection sequence.



# Automatic System Access (ASA)

#### DESCRIPTION

Automatic System Access (ASA) includes four features that allow more flexible use of your MERLIN Plus system and your outside lines. The features are described in this section under separate entries:

- Call Forwarding (CF)
- Direct Extension Dialing (DXD)
- System Answer (SA)
- Remote Line Access (RLA)

### CONSIDERATIONS

Refer to the individual features in this section

### ADMINISTRATION

If your responsibilities do not include system administration, skip this information.

### ASA Jack Assignment

The Automatic System Access features require a dedicated jack on the control unit into which you can plug one end of the Auto Access cord. The cord also plugs into the memory module where the Voice Synthesis Processor (VSP) is located. The V5P provides taped messages to callers when ASA features are being used. At startup, jack 18 is automatically assigned to ASA. To change the assignment, use the following procedures:

NOTE: You cannot assign jack 19, usually assigned to Busy Buster and/or Call Report, unless you have reassigned the jack for these features.

- Enter administration mode by sliding the T/P switch to P and touching Administer.
- Dial \*59.

The green light goes on next to the Auto Intercom button of the jack assigned to ASA.

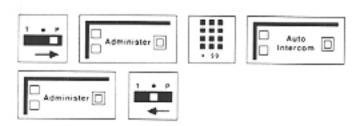
- 3 Perform one of the following procedures:
  - Touch the Auto Intercom button for the jack you want to assign to

The green light goes off next to the button for the old number, and the green light goes on next to the button for the new number. If you hear a denial tone, the feature is on or the VSP port is active. Either wait or turn off the feature.

- Dial the intercom number of the voice terminal you want to assign to ASA.
- 4 Touch Administer.

The consule beeps twice.

Leave administration mode by sliding the T/P switch to the center position.



PROGRAMMING

Refer to the individual features in this section.

HOW TO USE

Reter to the individual features in this section.

# **Auxiliary Lines**

#### DESCRIPTION

The MERLIN Plus system provides an auxiliary jack, labeled "AUX," at the top of each Line Module. This auxiliary line is bridged directly to outside Line A or Line E, and does not go through the MERLIN Plus system control unit. You can connect accessory devices to the system, and use these devices independently of the system. These devices include:

- Basic Telephones—During an electrical power outage, your MERLIN Plus system will not function. However, you can plug a basic telephone (not a MERLIN Plus system voice terminal) into the AUX jack, and use it to place and receive calls on Line A or Line E.
- Facsimile Machines-You can also plug a facsimile machine into the AUX jack. When calls come in on Line A or Line E, the FAX machine will respond to them as it would if plugged into any other outside telephone
- Modems and Computers-You can plug a modem into the AUX line and use it for transmitting and receiving data on Line A or Line E. The modem will function on this line as it would on any other outside telephone line. When using a modem, it is important that you prevent other employees from using voice terminals connected to Line A or Line E since this could interfere with data transmissions. You can program Line A or Line E for privacy (see 'Privacy on Lines A and E'), thus preventing others from bridging onto calls on Line A or Line E. To have the modem answer incoming calls automatically, simply set it up for auto-answer as you would on any telephone line. You can place outside calls with the modem either by connecting a basic telephone and dialing manually, or by using the modem's autodial capabilities.
- Telecommunication Devices for the Deaf and Dictation Machines-You can plug these devices into the AUX jack and transmit or receive data on Line A or Line E. The machines will respond as if they were plugged into any other outside telephone line.
- Answering Machines—You can plug an answering machine into the AUX jack so that when calls come in on line A or Line E, the answering machine will record messages as it would if plugged into any other outside telephone line.

#### CONSIDERATIONS

When a call comes in on Line A or Line E, it will ring both on the voice terminal that is assigned to Line A or Line E and on any device connected to the auxiliary jack bridged to Line A or Line E. If you are using the auxiliary line for a device such as a FAX or modem, you may want to use the No Ring option (see "Ringing Options") to prevent calls from ringing on a voice

terminal connected to Line A or Line E. This will prevent employees from answering calls that should be going to the accessory device connected to the auxiliary line.

If you do not want the accessory device to ring on incoming calls, you can simply turn it off or set it not to ring, and program Line A or Line E for normal ringing.

You cannot use a MERLIN Plus system voice terminal on the auxiliary jack.

You cannot connect a loudspeaker paging system into the auxiliary jack.

The system administrator can administer the Privacy feature for Line A and/or Line E so that no one else in the system can bridge onto or monitor these lines while a call is active on them. For more information, see "Privacy (on Lines A and E).\*

#### ADMINISTRATION

If you want calls that come in on the line connected to an auxiliary jack to ring at that device but not at any other voice terminal that has the same line assigned to it, program the other voice terminals to not ring on that line. (See "Ringing Options.")

If you don't want calls that come in on the line connected to an auxiliary jack to ring at that device, you will have to see if the device has a switch to turn off the ring and set it accordingly.

#### PROGRAMMING

None

#### HOW TO USE

Use the basic telephone, facsimile machine, or modem and computer connected to the auxiliary jack as you normally would.

Plug in the auxiliary telephone whenever you want to bridge or monitor Line A or Line E.

# Bridging

If you share a line with another person, you can join (or "bridge" onto) a call in progress on that line. In this way you can easily join a conference call by just touching a line button and Speakerphone or lifting your handset. (See "Conference.")

#### CONSIDERATIONS

Up to three people connected to the MERLIN Plus system, including the originator of the call, can bridge onto a call at one time. When a person bridges onto a call in progress, the red and green lights next to the line button on your voice terminal flash alternately so that you know that someone else has joined the call.

You cannot use the Bridging feature on a voice terminal with Button-Free Line Operation.

If a person has activated the Privacy feature on his or her voice terminal, you cannot bridge onto a call in progress at that voice terminal. (See "Privacy.")

ADMINISTRATION

None:

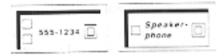
PROGRAMMING

None

HOW TO USE

To bridge onto a call in progress:

- Touch the line button associated with the call.
- Touch Speakerphone or lift your handset.



# Busy Buster (BB)

#### DESCRIPTION

The Busy Buster feature automatically redials up to 15 times (at approximately 30-second intervals) the most recent number you dialed. If the called telephone begins to ring within this time, your voice terminal alerts you. To use this feature, the system administrator must have assigned the feature to a voice terminal jack on the control unit, a connection must have been made from that voice terminal jack to the BB jack on the memory module, and a button must be programmed at each applicable voice terminal.

#### CONSIDERATIONS

The Busy Buster feature is shared by everyone in the MERLIN Plus system. When you and other people in your system use this feature at the same time, the system places the telephone number each person has dialed in a queue. The system then dials each number in the queue.

The system redials the call on the same line on which the call was placed. If you use a stop character in the dialing sequence of a System Speed Dial number, you cannot use Busy Buster to retry the number for you.

Each person in the system can have only one Busy Buster number active at a time.

If you or someone else places or accepts another call on a voice terminal that has activated Busy Buster, the system will continue the 15 attempts to reach the busy voice terminal, even though your voice terminal is in use. When the BB call goes through, the voice terminal will alert you with an abbreviated ring even if you're on another call.

If you are using an SP-34 or an SP-34D voice terminal, Busy Buster can only be programmed onto one of the two rows of buttons above the dial pad.

When a Busy Buster call is answered, your voice terminal is alerted. If there is a significant delay between the time that the called party answers and the time you pick up your alerting voice terminal, the party you called may become confused by the silence and hang up. Therefore, if you are expecting a Busy Buster call, you may want to activate the Do Not Disturb feature so that only transfer return calls, which include Busy Buster calls, will ring at your voice terminal.

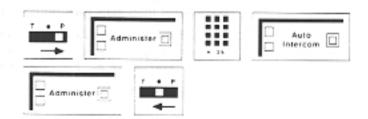
If you activate Busy Buster for a number that is in the same local exchange as the number you're calling from, there is a chance that when successful, the call will be answered so quickly that the exchange network cannot provide the information to alert your voice terminal. The party you called could become confused by the delay and hang up.

#### ADMINISTRATION

If your responsibilities do not include system administration, skip this information.

The system is factory-set to have the Busy Buster feature assigned to voice terminal jack 19 on the control unit. However, you can use the following procedure to assign the feature to any other voice terminal jack in the system, except jack 10.

- Enter administration mode by sliding the T.P. switch to P and touching Administer.
- Dial \*35
- Touch the Auto Intercom button or dial the intercom number of the jack to which the Busy Buster feature will be assigned. The green light goes on next to the Auto Intercom button to which the feature will be
- 4 Touch Administer. The console books freion
- Leave administration mode by sliding the T P switch to the center position.
- 6 Make sure the BB jack is moved to the corresponding voice terminal jack you've just assigned.



### PROGRAMMING

This feature requires a button with lights.

To program a button on your voice terminal for the Busy Buster feature:

- Label the button Busy Buster.
- Slide the T.P. switch to P. The conce terminal rings every 5 seconds to remind you that you are programming and that torn cannot place or receive calls.
- 3 Touch the button you want to program.

- Dial \*31 (you do not need to dial an outside number).
- Slide the T/P switch to the center position.



#### HOW TO USE

If the number you are calling is busy and you want to use the BB feature, follow this procedure:

- Before you hang up, touch the Busy Buster button. The green light next to the Busy Buster button flashes.
- 2 Hang up.



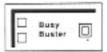
When the dialed number rings, your voice terminal rings. To begin the call:

Touch Speakerphone or lift the handset.



If you no longer want to have the system repeatedly redial the last number you dialed, you can deactivate the feature.

 Without lifting the handset, touch Busy Buster. The green light next to the button goes off.



# Button-Free Line Operation

#### DESCRIPTION

Button-Free Line Operation allows people with a 5-button or any 10-button voice terminal to access lines, even though the lines do not appear on the voice terminal buttons. Therefore, those voice terminals have additional free buttons for needed programmed features. This feature is ideal for people who need several lines, but who rarely handle more than one call at a time. To place or answer a call, they just lift their handset, and the MERLIN Plus system selects a free line for outgoing calls or the ringing line for incoming calls.

#### CONSIDERATIONS

The system administrator can assign a maximum of eight lines to a buttonfree voice terminal. However, if the administrator again wants lines assigned to buttons on a voice terminal, he or she can assign only the number of lines for which the voice terminal has line buttons. For example, if the administrator has assigned eight lines to a 5-button voice terminal with Button-Free Line Operation and decides to assign lines to voice terminal buttons, only four of those eight lines can appear. The features that the administrator or user has programmed onto the voice terminal buttons will be replaced by lines.

With Button-Free Line Operation, the system administrator can administer the individual voice terminals so that they ring or do not ring when calls come in. (See "Ringing Options.") Button-Free Line Operation with the no ring option is appropriate for voice terminals in public places, such as lobbies.

When anyone in your system uses the Button-Free Line Operation feature:

- There are no red and green lights associated with lines to keep track of call-handling features, such as Transfer or Hold.
- The person with Button-Free Line Operation can answer transferred calls and ringing lines by picking up the handset.
- There is no way of knowing which line the system has selected for an outgoing call. Therefore, make sure that all lines assigned to these voice terminals are of the same type. Do not mix regular lines, WATS lines, and Foreign Exchange lines.
- You cannot program an Automatic Line Selection sequence on voice terminals with Button-Free Line Operation. In this case, only your system administrator can assign the sequence of lines for your voice terminal.
- You can use the Intercom, Hold, Transfer, and Call Pickup features, but you cannot use the Bridging or the Conference feature.

### ADMINISTRATION

If your responsibilities do not include system administration, skip this information.

To make lines on a voice terminal button-free:

- Enter administration mode by sliding the T/P switch to P and touching Administer.
- Touch the Auto Intercom button or dial the intercom number for the voice terminal you are administering. A green light goes on next to the Auto Intercom button. Green lights go on next to the buttons of any lines already assigned to the voice terminal,
- 3 Touch the line button until the green light next to it shows the line assignment you want:

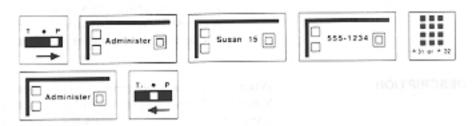
Green light on = the line is assigned to the voice terminal Green light off = the line is not assigned to the voice terminal

- To make the line Button-Free, dial one of these two codes:
  - Dial \*31 if you want the voice terminal to ring. The green light next to the Auto Intercom button flashes rapidly.
  - Dial \*32 if you do not want the voice terminal to ring. The green light next to the Auto Intercom button flashes slowly.

Touch Administer.

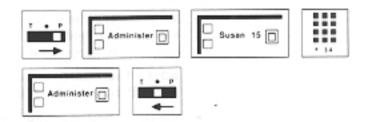
The consule beeps ticice.

Leave administration mode by sliding the T/P switch to the center position.



To remove Button-Free Line Operation by reassigning lines to separate buttons on a voice terminal:

- 1 Enter administration mode by sliding the T/P switch to P and touching Administer.
- Touch the Auto Intercom button for the voice terminal you are administering.
- 3 Dial \*34. A green light should go on next to the lines that have been assigned to the voice terminal,
- Touch Administer. The console beeps twice.
- 5 Leave administration mode by sliding the T/P switch to the center position.



PROGRAMMING

None

HOW TO USE

If you do not have a line button for a call that you have received or that has been transferred to you, you can still put the call on hold using the Hold button. To retrieve the call, you can use the Hold Retrieve feature. (See "Hold Retrieve.")

# Call Forwarding (CF)

NOTE: Call Forwarding is an ASA feature and therefore, requires the assignment of the ASA jack. If the ASA jack assignment has not yet been made, refer to "Automatic System Access" in this section before attempting to administer this feature.

#### DESCRIPTION

When in CF mode, incoming calls on designated lines are connected to the Voice Synthesis Processor (VSP), then while the caller is listening to the message, the control unit dials the telephone number where calls are being forwarded. When the person at the CF number answers, the system then uses the conferencing feature to connect the two calls, and the call progresses normally.

You have the option to change the message or you can have calls forwarded without the message so that callers are unaware that their calls are being forwarded. You can also change the call forwarding number from any Touch-Tone phone.

#### CONSIDERATIONS

Call Forwarding requires the following:

- A programmed button with green and red lights labeled CF/DXD.
  - You use the CF/DXD button to activate either Call Forwarding or Direct Extension Dialing (discussed later in this section). To put the system in either of these modes, or in normal mode, you touch the CF/DXD button. The green and red lights show you what mode you are in.
  - If the system is in normal mode, touch the button twice to put the system in CF mode Only red light on = CF mode

NOTE: You must first assign a CF number before touching the CF/DXD button will put the system in CF mode.

- Touch the button a third time to put the system back into normal mode.
  - Green and red light off.
- A valid 5-digit password to gain access from a remote location to enter a call forwarding number or to change the current call forwarding number.

To enter a password, follow the administration procedure discussed later in this entry.

That there can be more than one CF/DXD button in the system, but a voice terminal can have only one CF/DXD button:

If two or more users have a CF/DXD button programmed on their voice terminals, each of them can turn the features on and off. For example, if one of these users activates Call Forwarding, the red light goes on next to the CF/DXD button on all the voice terminals that have that button. When a person deactivates the feature by touching the CF/DXD button, the light goes off next to the button on all the voice terminals that have the programmed CF/DXD button.

A synthesized voice message:

This message is automatically supplied by the VSP in the control unit. The administrator can modify the message when necessary or may choose to turn off the message.

- That one jack on the control unit be dedicated to the ASA features.
   See "Automatic System Access" in this section for administration procedures.
- That you administer at least one line to an incoming and one line to an outgoing line group:

At startup, none of the system's lines are assigned to the CF incoming or outgoing line group.

- If there is only one line in the incoming line group and one line in the outgoing line group, they cannot be the same line. The green light next to the CF button will flash when you try to turn it on.
- When the system is in CF mode, the feature's operation affects only those calls that come in on lines in the CF incoming line group. Likewise, the system only uses the lines in the CF outgoing line group to forward calls. Calls coming in on lines not assigned to the CF incoming line group are not automatically answered for call forwarding.

## ADMINISTRATION

If your responsibilities do not include system administration, skip this information.

## Call Forwarding Line Groups

At startup, none of the system's outside lines are assigned to the CF incoming or outgoing line group. To use this feature you must assign line(s) to each group.

- Enter administration mode by sliding the T/P switch to P and touching Administer.
- 2 Dial the code for the type of line group list you want to administer:
  - CF incoming line group, dial \*51

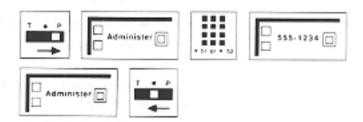
Green light on = line is assigned to the group Green light off = line is not assigned to the group

For a CF outgoing line group, dial \*52

Green light on = line is assigned to the group Green light off = line is not assigned to the group

3 Touch the line buttons until the green lights show the makeup you want for the line group.

- Touch Administer. The console beeps twice.
- 5 Leave administration mode by sliding the T/P switch to the center position.



## Voice Messages

The system automatically provides the following voice message for call forwarded calls:

"Your call is being forwarded. Please hold."

You can modify this message to include the following statement:

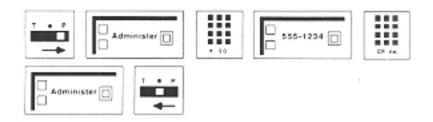
"You have reached nnn..."

where nnn... is the telephone number of one of your outside lines. The number can be up to 16 digits, including \* or #. You can modify the message for all lines in an incoming line group, or you can modify the message for some and leave others unmodified. To modify the CF message for one or more lines in your incoming line groups, do the following:

- 1 Enter administration mode by sliding the T/P switch to P and touching Administer.
- Dial \*50.
- 3 Touch the line button for the line on which you want the modified message. The green light goes on.
- 4 Dial the telephone number you want to include in the message.

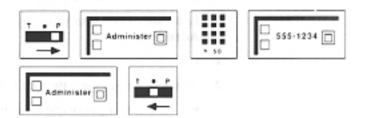
NOTE: For special phone numbers, such as an 800 number, you may prefer to have the recorded voice say "Eight hundred" followed by the number, instead of "Eight, zero, zero." In this case, you would touch the Hold button to enter a pause after the toll prefix, then again after the 800 area code, and again after the exchange. For example, 1-800-555-1212 would be entered as follows: 1pause800pause555pause1212

- 5 Repeat for other lines.
- Touch Administer. The console beeps twice.
- Leave administration mode by sliding the T/P switch to the center position.



To turn off the voice message on a line:

- Enter administration mode by sliding the T/P switch to P and touching Administer.
- Dial \*50.
- Touch the line button. The green light goes off.
- Touch Administer. The console beens twice.
- Leave administration mode by sliding the T/P switch to the center position.



You may also choose to turn off the entire Call Forwarding message so that calls are automatically forwarded.

- Enter administration mode by sliding the T/P switch to P and touching Administer.
- Dial \*30.
- Dial 0 to turn off the message.

NOTE: To turn on the message, dial 1 instead of 0 in step 3.

Touch Administer. The console beeps twice.

Leave administration mode by sliding the T/P switch to the center position.



# Numbers of Rings

To change the number of rings (the default is two rings) before the CF call is answered:

- Slide the T/P switch to P and touch Administer.
- Dial \*762 plus the number of rings (between 0 and 9) before CF picks up the call.

NOTE: If the number of rings is set to 0, the voice terminal will not ring, and the calls will be forwarded immediately.

Touch Administer. The console beeps twice. 4 Leave administration mode by sliding the T/P switch to the center position.



#### Passwords

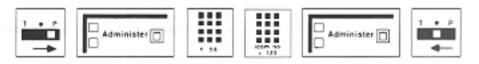
You and others in your business need at least one valid 5-digit password in order to change a call forwarding number from a remote location. The first two numbers in the password are the caller's intercom number.

To create or invalidate a password, follow this procedure:

- Enter administration mode by sliding the T/P switch to P and touching Administer.
- Dial \*56
- Perform the appropriate step below:
  - To create a password for a particular intercom number, dial a MERLIN Plus system intercom number plus any three digits except 000. The console beeps twice.
  - To invalidate any password beginning with a particular intercomnumber, dial the intercom number plus 000. Repeat the procedure for more passwords. The console beeps twice.
- Touch Administer.

The console beeps twice.

Leave administration mode by sliding the T/P switch to the center position.



## Call Forward Destination Number

You can enter or change the telephone number where you want calls forwarded (the CF destination number) in either of two ways:

- Follow the first procedure below to enter or change the CF destination telephone number from the administrator/attendant console with the system in administration mode.
- Follow the second procedure below to enter or change the CF destination telephone number from a phone outside the system with the system in CF mode.

From the Administrator/Attendant Console To enter, change, or delete the CF destination telephone number from the administrator/attendant console, follow this procedure.

Enter administration mode by sliding the T/P switch to P and touching Administer.

- Dial \*53.
- Perform the appropriate step below:
  - To enter or change a CF destination telephone number, dial the new number.
  - To remove the current CF destination number without replacing it with another number, touch Administer.
- Touch Administer.

The console beeps twice.

5 Leave administration mode by sliding the T/P switch to the center position.













From Outside the System To enter or change the CF destination number from outside the system while the system is in CF, DXD, or RLA mode, follow this procedure.

> NOTE: This procedure is available on the MERLIN Plus CF/RLA card, so that you can refer to it when you're changing the CF destination while off-site.

1 Dial the telephone number for one of the lines in the CF incoming line group.

When the call is answered, you hear the CF voice message.

As soon as the voice message ends, immediately dial \* # \*. The system goes into RLA mode, and the VSP asks you to enter your password.

NOTE: If the voice prompt is not administered, dial \* # \* after the call stops ringing.

- At the voice prompt, enter your password. The VSP asks you to enter a line number.
- At the voice prompt, dial 00. The VSP asks you to enter the new call forward number followed by a pound (#).
- Dial the new CF telephone number plus a pound (#). The VSP repeats the new number and asks you to either confirm it by dialing a \* or deny it by dialing 00.
- 6 Dial \* to confirm, or dial 00 to return to step 5, above, and try again. After receiving the confirmation signal, the VSP repeats the new number once more and identifies it as the new call forward number.
- Hang up.















## PROGRAMMING

A button with a red light next to it is required for the CF feature.

To program a CF/DXD button on a voice terminal:

- Label the button CF/DXD.
- Slide the T/P switch to P. The voice terminal rings every 5 seconds to remind you that you're programming and that you can't place or receive calls.
- Touch the button you want to program.
- Dial \*83.
- Slide the T/P switch to the center position.









## HOW TO USE

# Using the CF/DXD Button

Touching the CF/DXD button repeatedly cycles the system through DXD, CF, and normal modes. The red and green lights next to the CF/DXD button will help you recognize which mode the system is in.

> Green and red light off = Normal mode Only green light on - DXD mode Only red light on = CF mode Red light flashing = Problem with CF

If the red light next to the CF/DXD button is flashing, notify the system administrator who should refer to Section 7, "Troubleshooting."

To return to CF mode after an error has been corrected:

Touch CF/DXD three times.

The first time puts the system in normal mode; the second touch of the button puts the system in DXD mode; the third touch puts the system in CF mode.







# Call Pickup

## DESCRIPTION

If you want to pick up an intercom or outside call that is ringing at another voice terminal, use the Call Pickup feature.

You can use this feature in three different ways:

- Option A—You can use a dial code and dial the intercom number of the ringing voice terminal.
- Option B-You can program a Call Pickup button and dial the intercom number of the ringing voice terminal.

Option C-You can program a One-Touch Call Pickup button for a specific voice terminal in your business so that when the person is away, you can answer that person's calls with one touch. You can program a Call Pickup button for each voice terminal for which you need to answer calls.

#### CONSIDERATIONS

If the line on which the call is coming in appears on a button on your voice terminal, you do not need to use the Call Pickup feature to answer the call. You can just touch the line button on which the call is ringing and then touch Speakerphone or lift your handset.

If you want someone in the office, such as a guard, to answer calls that come in after hours, program a Call Pickup button for calls that come in at the administrator/attendant console. Since the attendant console has all the lines of your MERLIN Plus system, the person answering calls after hours can pick up all calls by touching the Call Pickup button whenever the attendant console rings. If the person is in another part of the building, the attendant can connect his or her console and an extra alert device to a Supplemental Alert Adapter (see "Supplemental Alert Adapter" under "Accessory Equipment"), so that each time a call comes in, an extra alert device goes on.

## ADMINISTRATION

None

## PROGRAMMING

You do not need to program Option A.

To program Option B:

- Label the button Call Pickup.
- Slide the T/P switch to P. The voice terminal rings every 5 seconds to remind you that you are programming and that you cannot place or receive calls.
- 3 Touch the button you want to program.
- Dial \*85.
- Slide the T/P switch to the center position.





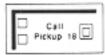




To program Option C:

- Label the button Call Pickup plus an intercom number.
- Slide the T/P switch to P. The voice terminal rings every 5 seconds to remind you that you are programming and that you cannot place or receive calls.
- Touch the button you want to program.
- Dial \*85 plus an intercom number.
- Slide the T/P switch to the center position.











## HOW TO USE

You can use a programmed button or a dial code to pick up an intercom or outside call at any other voice terminal in the system.

To pick up a call ringing at any other voice terminal using Option A:

- Touch Speakerphone or lift your handset.
- Dial #3.
- Dial the intercom number of the voice terminal where the call is ringing.



To pick up a call ringing at any other voice terminal using Option B:

- Touch Speakerphone or lift your handset.
- Touch the Call Pickup button you programmed above.
- Touch the Auto Intercom button or dial the intercom number of the voice terminal at which the call is ringing.



To pick up ringing calls at a specific voice terminal using Option C:

- Touch Speakerphone or lift your handset.
- Touch the One-Touch Call Pickup button you have programmed for the voice terminal.



# Call Report

NOTE: This feature is used with a MERLIN Plus system data collector and an AT&T 475 printer or its equivalent.

## DESCRIPTION

The Call Report feature, often called Station Message Detail Recording (SMDR), enables a business to keep records of incoming and outgoing calls.

The information in a printed call report gives details about outgoing and incoming calls: the date and time of each call, its duration, the line and voice terminal on which the call was made or received, and the dialed numbers of the outgoing call. Call reports are printed automatically as calls go out or come in. This information helps a business build records of its telephone traffic patterns and identify abuses in voice terminal privileges.

If an account code is entered when the call is made, the call report prints that information for you. Account codes are helpful in billing customers and different departments of the company for telephone calls that should be charged to them. (See "Account Number Entry.") The data collector and the printer can also print a System Feature Report, a list of the features that have been administered to the system (see "System Feature Report"). Figure 5-1 shows a printout that contains several typical Call Reports. Each line beginning with "C" represents an individual Call Report.

|         |     |            |                    |               |        |          | 1000 11        |
|---------|-----|------------|--------------------|---------------|--------|----------|----------------|
| DATE    | Ε.  | TIME       | CALLED NUMBER      | DURATION      | UN     | STN      | ACCOUNT        |
| 0 08/21 | 186 | 11:01      | 9090334            | 00:01:13      | 8      | 11       | 32145677       |
| 0.08/21 | /86 | 11:05      | 7879096565         | 00:06:24      | 6      | 15       |                |
| 08-21   | 86  | 13:15      | 110869685679714?   | 00:13:06      | 4      | 11       |                |
| 08/21   | 186 | 14:05      | 4697896            | 00:09:00      | - 3    | 12       | 63354324       |
| 08122   | 186 | 09:43      | IN.                | 00:02:16      | à      | 11       |                |
| 0 00 22 | 186 | 10:12      | 8889914321         | 00:12:18      | 7      | 1.4      |                |
| C 08 22 | /66 | 11:15      | IN:                | 00:17:09      | 3.     | 12       |                |
| 0 08 22 | 186 | 14:25      | 1108696856797147   | 00:08:15      | - 4    | 11       |                |
| C 06:23 | 86  | 11:15      | 4697896            | 00:19:11      | 3      | 12       | 63354324       |
| C 08 24 | 86  | 08:10      | 667                | 00:12:14      | . 5    | 18       |                |
|         |     |            |                    |               |        |          | _              |
| -       |     |            |                    |               |        |          |                |
|         |     |            |                    |               |        |          |                |
|         |     |            |                    |               |        |          |                |
|         | No  | tes:       |                    |               |        |          |                |
|         | 1   | Colum      | n headings (DATE   | TIME, etc.)   | do no  | ot appea | ar on Call     |
|         |     | Report     | printouts.         |               |        |          |                |
|         | 2   | An IN      | in the Called Num  | ber column    | ndica  | tes an i | ncoming call.  |
|         | 3   | A ? at     | the end of a numb  | er in the Ca  | lled N | umber    | column         |
|         |     | indicat    | es that the number | er called had | more   | than th  | ne 15 reported |
|         |     | el Leville |                    |               |        |          |                |

As you can see from the reports in Figure 5-1, the system prints the number of each outgoing call. If there's a telephone number you'd like to keep private-say, a number containing a long distance access code-you can give that number a System Speed Dial code and mark it for privacy when you enter it during system administration. Then the system will print the System Speed Dial code instead of the telephone number on Call Reports, as the last Call Report in Figure 5-1 shows. See "System Speed Dial" later in this section.

## CONSIDERATIONS

The Call Report feature can only be invoked at the administrator/attendant console.

When the system administrator administers the system for the Call Report feature, he or she can set certain options for the feature.

 The administrator should set the initial time and date, so that these details appear correctly on the call report.

The system is set to have the data collector and the printer connected to voice terminal jack 19 for the Call Report feature. However, the administrator can administer the printer and connect it to any other voice terminal jack in the system, except jack 10.

NOTE: If you are using the same printer and data collector for both the System Feature Report and the Call Report features and change the voice terminal jack assignment, you must administer the new jack assignment for both features. You cannot use the same jack that you used for ASA but ASA can share the same jack assigned to BB by using the adapter provided with the data collector. ASA and BB jack assignments can be changed if necessary.

- The administrator can select the type of calls that appear on the call report. The system is factory-set to have no calls reported. However, the administrator can set the system for reporting outgoing and incoming calls, or for reporting only outgoing calls.
- The system is set to record outgoing calls that last at least 1 minute. However, the system administrator can change that setting for a longer (up to 9 minutes) or shorter (as little as 10 seconds) minimum duration.
- The administrator can also specify which System Speed Dial codes are printed on call reports, and which ones will be private.

The entries on a call report are preceded by a "C."

## ADMINISTRATION

If your responsibilities do not include system administration, skip this information.

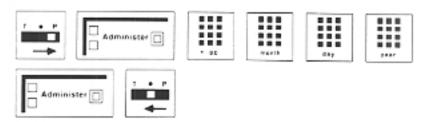
Before you administer the Call Reports options for your system, refer to the System Configuration Form that you have filled out.

To administer the various Call Reports options for your system:

# The Date and the Time.

To set today's date:

- Enter administration mode by sliding the T/P switch to P and touching Administer.
- 2 Dial \*80.
- Dial two digits for the month (01 through 12).
- Dial two digits for the day (01 through 31).
- Dial two digits for the year (00 through 99). For example, if the date is March 24, 1988, dial \*80032488.
- Touch Administer. The console beeps twice.
- send to the center beautiful to the server administration mode by sliding the T/P switch to the center position.



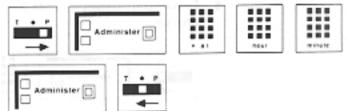
To set the current time:

- Enter administration mode by sliding the T/P switch to P and touching Administer.
- Dial \*81.
- Dial two digits for the hour (00 through 23).
- Dial two digits for the minute (00 through 59).

For example, if the time is 2:16 A.M., dial \*810216; if the time is 2:16 P.M., dial \*81 14 16.

Touch Administer. The console beeps twice.

Leave administration mode by sliding the T/P switch to the center position.



# Control Unit Jack Assignment for the Call Report Feature.

To specify the voice terminal jack to which the data collector and the printer will be connected:

NOTE: The system is factory-set for jack 19.

- Enter administration mode by sliding the T/P switch to P and touching Administer.
- 2 Dial \*82.

The green light goes on next to the Auto Intercom button that corresponds with the jack to which the data collector and the printer are currently assigned.

3 Touch the Auto Intercom button or dial the intercom number of the jack to which the data collector and printer are currently assigned.

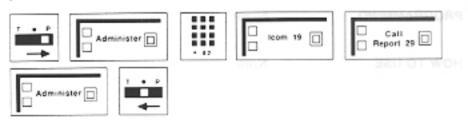
The green light goes off next to the Auto Intercom button that corresponds with the jack to which the data collector and printer are currently assigned.

Touch the Auto Intercom button or dial the intercom number of the jack to which the data collector and the printer will be connected. The green light next to the button goes on.

Touch Administer.

The console beeps twice.

Leave administration mode by sliding the T/P switch to the center position.



Minimum Call Duration. To specify a minimum call duration other than 1 minute for call reporting:

- Enter administration mode by sliding the T/P switch to P and touching Administer.
- Dial \*83.
- Dial one digit from 0 to 9 for the number of minutes.

For example, to specify a minimum duration of 10 seconds, dial \*830. To specify a minimum duration of 9 minutes, dial \*839.

NOTE: Ten seconds is the shortest duration you can set under one minute.

Touch Administer. The console beeps twice.

Leave administration mode by sliding the T/P switch to the center position.













Type of Documented Calls. To specify the type of calls that will be documented (the system is set to have no calls reported):

- Enter administration mode by sliding the T/P switch to P and touching Administer.
- Dial \*84.
- Dial a number code 0 through 2 to specify the kind of calls to be reported (the system is factory-set so that no calls are reported):
  - If you do not want any calls reported, dial 0.
  - If you want only outgoing calls reported, dial 1.
  - If you want outgoing and incoming calls reported, dial 2.
- Touch Administer.

The console beeps twice.

Leave administration mode by sliding the T/P switch to the center position.













PROGRAMMING

None

HOW TO USE

None

# Call Restriction

## DESCRIPTION

When the system is first installed, people can use their voice terminals to place intercom, local, and toll calls. However, the system administrator can assign either of two types of call restrictions for selected voice terminals:

- Outward Call Restriction restricts voice terminals so that only intercom calls can be placed.
- Toll Call Restriction restricts voice terminals so that only intercom and local calls can be placed.

## CONSIDERATIONS

Even if a voice terminal has Outward Call Restriction, the person can bridge onto calls in progress, answer incoming calls, and place and receive intercom calls.

If the outward call restrictions are too limiting, the administrator can designate a list of numbers that individuals may call beyond the established restrictions. (See "Allowed Lists.")

If the administrator decides to store a System Speed Dial code with Restriction Override, all voice terminals in the system can use the code as a type of password that allows the person to access the outside number, regardless of toll or outward call restrictions previously placed on the voice terminal. (See "System Speed Dial.")

If there are two or more voice terminals in the system that will have the same restrictions, the administrator can use the Copy feature to copy these restrictions from one voice terminal to another. (See "Copy.")

When administering call restrictions, the system administrator can use restriction reset to ensure the integrity of the assigned restrictions.

## ADMINISTRATION

If your responsibilities do not include system administration, skip this information.

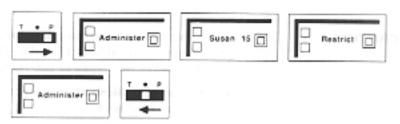
To administer call restrictions to a voice terminal:

- 1 Enter administration mode by sliding the T/P switch to P and touching Administer.
- 2 Touch the Auto Intercom button or dial the intercom number of the voice. terminal you want to restrict.
- 3 Touch Restrict until the green light beside it shows the kind of call restriction you want the voice terminal to have.

Steady green light on = Unrestricted (all calls permitted) Flashing green light = Toll restricted (local and intercom calls only) Green light off = Outward restricted (intercom calls only)

- Touch Administer. The console beeps twice.
- 5 Repeat steps 2 through 4 for each voice terminal you want to restrict.

Leave administration mode by sliding the T/P switch to the center position.



Use the reset restriction code to ensure the integrity of assigned call restrictions:

- 1 Enter administration mode by sliding the T/P switch to P and touching Administer.
- Dial \*11 and touch the line button you want to reset.

```
Green light on = line is restriction reset.
Green light off = line is not restriction reset. (System default.)
```

- Touch Administer. The console beeps twice.
- Leave administration mode by sliding the T/P switch to the center position.













PROGRAMMING

None

HOW TO USE

Ask your system administrator what call restrictions, if any, he or she has assigned to your voice terminal.

# Centralized Programming

#### DESCRIPTION

The Centralized Programming feature allows the system administrator the convenience of programming features onto individual voice terminals directly from the administrator/attendant console. In this way there is no need to go to each voice terminal to do the programming. This feature is useful when the administrator is assigning Ringing Options for incoming calls.

## CONSIDERATIONS

The system administrator must be certain that the appropriate feature buttons on the voice terminals are accurately labeled.

The voice terminal being programmed must be idle. If the voice terminal is busy or in program mode, the administrator hears a beep at the administrator/attendant console, indicating that he or she cannot use this feature until the voice terminal is idle again.

This feature cannot be used to program station 10.

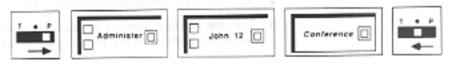
The system administrator can use the Program Mode Lock feature to prevent people within the system from changing programming assignments on their voice terminals. (See \*Program Mode Lock.\*)

## ADMINISTRATION

If your responsibilities do not include system administration, skip this information.

To program a feature onto a voice terminal from the administrator/attendant console:

- Enter administration mode by sliding the T/P switch to P and touching Administer.
- 2 Touch the Auto Intercom button or dial the intercom number for the voice terminal you want to program.
- 3 Touch Conference.
  Green lights go on next to the line buttons of lines already assigned to the voice terminal.
- 4 Follow the same steps to program the feature that you would follow if you were at the voice terminal.
- 5 When you are finished programming the features for that voice terminal, touch Conference again.
- 6 Leave administration mode by sliding the T/P switch to the center position.



PROGRAMMING

None

HOW TO USE

None

# Conference

#### DESCRIPTION

When you want people outside the MERLIN Plus system to join a call in progress, you can use the Conference feature. You can set up a conference call that includes up to two people from outside the MERLIN Plus system, up to two people within the system, and yourself, a total of five people.

## CONSIDERATIONS

People connected to the MERLIN Plus system can bridge onto an outside line that is active on the conference call. However, when the maximum configuration of three people within the system and two from outside is reached, attempts to add more people will be denied.

Use the Drop button followed by touching the appropriate line button when you want to selectively disconnect one outside line at a time from a conference call or when you want to disconnect a voice terminal that is ringing but not being answered. (See "Drop.") If you press the switchhook, you may end the conference call.

In order for a person within the MERLIN Plus system to be disconnected from the conference, he or she must hang up.

You cannot use the Conference feature for outside lines on a voice terminal with Button-Free Line Operation.

If you attempt to add to a conference call a voice terminal that is busy on an another call, you will hear busy tones, and the call is automatically dropped in 15 seconds. If the voice terminal does not answer, you can drop the call by touching Drop without disconnecting the person who is already a part of the conference.

## ADMINISTRATION

None

## PROGRAMMING

None

## HOW TO USE

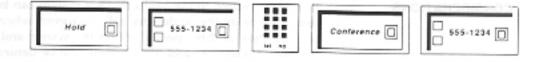
To set up a conference call when you have one outside line on the call:

- Touch Conference.
- Touch a free line button (or the Intercom button).
- Dial the outside number (or dial the intercom number or touch the Auto Intercom button) of the person you want to add to the conference call.



If you don't want the person already connected to listen while you connect the second person to the call:

- Touch Hold.
- Touch a line button (or touch Intercom).
- Dial the outside number (or dial the intercom number or touch the Auto Intercom button) of the second person you want to include in the conference.
- Announce the conference call through your speaker or handset.
- Touch Conference.
- Touch the line button for the line that you put on hold (or touch the Intercom button).



To remove yourself from a conference without disconnecting the other parties:

Touch Hold.



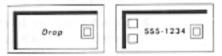
To rejoin the call:

Touch a line button associated with the call.



To disconnect one outside line at a time from the call:

- Touch Drop.
- Touch the button of the line you want to disconnect.



# Copy

## DESCRIPTION

If there are two or more voice terminals that require identical feature assignments, the system administrator can use the Copy feature to copy the line and programmable feature assignments from one voice terminal onto another.

#### CONSIDERATIONS

When the administrator uses the Copy feature, the MERLIN Plus system copies the line assignments from one voice terminal to the other. Feature assignments are always overwritten by lines.

Several other features are also copied during the Copy process: Ringing Options, Voice Announcement Enable/Disable, Automatic Line Selection, Personalized Ringing, Button-Free feature, and Call Restrictions except for Allowed Lists.

The "System Answer" button programmed for the System Answer feature cannot be copied. If attempted, the corresponding button on the voice terminal you are copying to will be blank.

If you have a 5-button voice terminal, you cannot copy any lines or features onto a larger voice terminal, or vice versa.

Except for the 5-button voice terminal, the administrator can copy the lines

and features from any small voice terminal onto a larger voice terminal. If you are the system administrator, you might want to copy the button assignments from a BIS-10 onto a BIS-22 voice terminal for example. You can also copy from a large voice terminal to a smaller voice terminal. However, if you copy lines or features from a large voice terminal onto a smaller voice terminal, such as from a BIS-34 to a BIS-22, the system copies only those lines. and/or features for which there are corresponding buttons on the smaller voice terminal. For example, in copying the lines and features from a BIS-34 voice terminal onto a BIS-22 voice terminal, the system copies only those lines and/or features assigned to the three left columns of buttons (the first 22 buttons) of the BIS-34 voice terminal. The rightmost column of buttons on the BIS-34 voice terminal will not be copied onto the smaller voice terminal.

Be sure to label the buttons on the voice terminal to which lines or features have been copied.

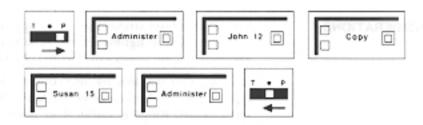
If any voice terminal in the system is active on a call, you must wait until it is idle before you can use Copy.

# ADMINISTRATION

If your responsibilities do not include system administration, skip this information.

To copy line and feature assignments from one voice terminal to another:

- Enter administration mode by sliding the T/P switch to P and touching Administer.
- 2 Touch the Auto Intercom button or dial the intercom number of the voice terminal to which you want to copy line assignments.
- 3 Touch Copy.
- Touch the Auto Intercom button or dial the intercom number of the voice terminal from which you are copying line assignments.
- 5 Touch Administer. The console beeps twice.
- Leave administration mode by sliding the T/P switch to the center position.
- Be sure to label the new line assignments on the voice terminal to which you did the copying.



PROGRAMMING

None

HOW TO USE

None

# Customized Line Assignment

## DESCRIPTION

The system administrator can assign lines to any voice terminal in any order, or choose not to assign particular lines to a voice terminal. The administrator can use Customized Line Assignment if he or she wants to assign lines or groups of lines to selected voice terminals with similar requirements for placing and receiving calls. For example, this might include people within a particular department who need the same line assignments as each other, but different from line assignments of people in other departments. The administrator can also assign personal lines so that no one else in the system has access to them. (See "Personal Lines.")

## CONSIDERATIONS

If a person in a system with Customized Line Assignments does not have a particular line assigned to his or her voice terminal, he or she can pick up a ringing call on that line by using the Call Pickup feature. (See "Call Pickup.")

If two or more voice terminals in the system will have the same line assignments, the administrator can use the Copy feature to copy the line assignments from one voice terminal to another. (See "Copy.")

A line jack with nothing plugged into it is called a nonequipped line appearance, or "ghost line." To eliminate ghost lines, the administrator must specify how many lines the system contains by using the administration procedure below.

## ADMINISTRATION

If your responsibilities do not include system administration, skip this information.

# Specifying the Number of Lines in Your System

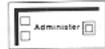
When the administrator first sets up the system, he or she must specify the number of lines in the system.

- Enter administration mode by sliding the T/P switch to P and touching Administer.
- 2 Dial \*4.
- 3 Dial a number (1 through 8) that corresponds with the number of lines in your MERLIN Plus system.

For example, if the system contains six lines, the administrator dials \*4 and then 6 or \*46.

- Touch Administer. The console beeps twice.
- Leave administration mode by sliding the T/P switch to the center position.











# Assigning Lines to Voice Terminals

Before you assign lines to voice terminals in your system, refer to the Line Assignments Form that you have filled out.

To assign lines to a voice terminal:

- Enter administration mode by sliding the T/P switch to P and touching Administer.
- 2 Touch the Auto Intercom button or dial the intercom number for the voice derminal that you are administering.

A green light goes on next to the Auto Intercom button. Green lights also go on next to the buttons of any lines already assigned to the voice terminal.

3 Remove all of the lines by touching each line button that has a light next to it.

The green light next to the line button goes off.

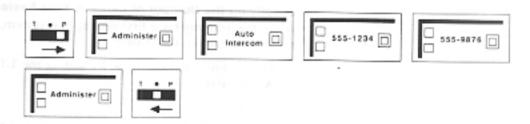
4 Touch all the line buttons again, this time in the order that you want them to appear on the voice terminal. If you want to reserve a button(s) for feature programming, touch it in the order in which you want it to appear.

Green lights go on next to the line buttons you touch.

- Touch Administer. The console beeps twice.
- 6 If you reserved an empty button for feature programming:
  - After you have touched each line button in the order you want, retouch the line button(s) that you want to be used for feature programming.

Green lights go off next to the line buttons you touch.

7 Leave administration mode by sliding the T/P switch to the center position.



# PROGRAMMING

None

HOW TO USE

The system administrator assigns lines to buttons for the whole system and for individual voice terminals. Be sure that the lines that you have access to are labeled on your voice terminal.

# Direct Extension Dialing (DXD)

NOTE: Direct Extension Dialing (DXD) is an ASA feature and therefore, requires the assignment of the ASA jack. If the ASA jack assignment has not yet been made, refer to "Automatic System Access" in this section before attempting to administer this feature.

## DESCRIPTION

When you put the system in DXD mode, the control unit acts like an automated attendant. Incoming calls on designated lines are connected to the Voice Synthesis Processor (VSP) for the following message prompt:

"Please dial desired extension number."

When the caller dials the extension number (the 2-digit intercom number), the control unit transfers the call to that extension and the caller hears the following message:

\*Please hold.\*

You can also modify the voice message, so that callers first hear the number they've reached, followed by the request for the extension number:

"You have reached [number]. Please dial desired extension number."

## CONSIDERATIONS

Direct Extension Dialing requires the following:

- A programmed button (with green and red lights) labeled CF/DXD You use the CF/DXD button to activate either Call Forwarding or Direct Extension Dialing. To put the system in either of these modes, or in normal mode, you touch the CF/DXD button. The green and red lights show you what mode you're in.
  - If the system is in normal mode touch the button once to put the system in DXD mode.

Green and red lights off = Normal mode Only green light on = DXD mode Green light flashing = Problem with DXD; call your system administrator Only red light on = CF mode

- Touch the button three times to put the system back into normal mode (both the green and red lights are off).
- A synthesized voice message

This message is automatically supplied by the VSP in the control unit. The administrator can modify the message to add the telephone number that the callers have contacted.

That one jack on the control unit be dedicated to the ASA features

At startup, jack number 18 is automatically designated as the ASA jack. An Auto Access cord that you plug into this jack is connected to the memory module which houses the VSP. If you want to change this jack assignment, follow the simple administration procedure discussed under "Automatic System Access" earlier in this section.

Its own incoming line group.

The feature's operation includes only calls coming in on lines assigned to the DXD incoming line group. Calls coming in on lines not in the DXD. incoming line group are not answered by the DXD feature. At startup, no lines are assigned to the DXD incoming line group. There's a simple procedure (discussed under "Administration") for changing the makeup of the DXD incoming line group.

CF and DXD are mutually exclusive modes: the system cannot be in both modes at the same time.

There can be more than one CF/DXD button in the system, but there can be only one CF/DXD button on a voice terminal. If two or more users have a CF/DXD button programmed on their voice terminals, each of them can turn the features on and off. For example, if one of these users activates the Direct Extension Dialing feature, the green light goes on next to the CF/DXD buttons on all the voice terminals that have a button for the feature. When the person deactivates the feature by touching the CF/DXD button, the light goes off next to the button at all the voice terminals that have programmed the CF/DXD features.

You should consider having a Transfer Return Interval if you plan to use DXD. (See "Transfer Return Interval.") Depending on the incoming call traffic, you may also want to designate an alternate attendant position to handle all returning ASA calls. (See "Alternate Attendant.")

When a caller responds to the voice prompt by entering an intercom number, the control unit uses the system's transfer feature to transfer the call to the voice terminal with that intercom number. If the call goes unanswered at the destination voice terminal and there is an administered Transfer Return Interval, the call is transferred to the administrator/attendant or the alternate attendant console when the interval expires.

If the system is administered for no return of transferred calls, the call continues to ring at the destination voice terminal until the caller hangs up.

If a compatible audio-source is available, Music-On-Hold is recommended for DXD, so that the caller can hear music while waiting. See "Music-On-Hold" under "Accessory Equipment" later in this section.

If the system is in both DXD and Remote Line Access modes and the lines overlap, DXD takes precedence.

### ADMINISTRATION

If your responsibilities do not include system administration, skip this information.

## DXD Line Groups

At startup, none of the system's outside lines are assigned to each ASA line group. You need to assign which lines you want to designate for DXD.

- Enter administration mode by sliding the T/P switch to P and touching Administer.
- 2 Dial \*58 for a DXD incoming line group.
- 3 Touch the line buttons until the green lights show the makeup you want for the line group.

Green light on = line is assigned to the group Green light off " line is not assigned to the group

4 Touch Administer. The console beens twice. Leave administration mode by sliding the T/P switch to the center position.



## Number of Rings

To change the number of rings (the default is two rings) before the DXD call is answered:

- Slide the T/P switch to P and touch Administer.
- Dial \*761 plus the number of rings (between 0 and 9) before call is picked up.

NOTE: If the number of rings is set to 0, the voice terminal will not ring, and the calls will be answered immediately.

- Touch Administer. The console beeps twice.
- Leave administration mode by sliding the T/P switch to the center position.



You can modify this message to include the following statement:

"You have reached nnn..."

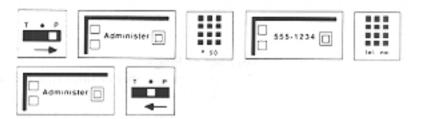
where nnn... is the telephone number of one of your outside lines. The number can be up to 16 digits, including \* or #. You can modify the message for all lines in an incoming line group, or you can modify the message for some and leave others unmodified. To modify the DXD message for one or more lines in your incoming line groups, do the following:

- Enter administration mode by sliding the T/P switch to P and touching Administer.
- Dial \*50.
- Touch the line button for the line on which you want the modified message. The green light goes on.
- Dial the telephone number you want to include in the message.

NOTE: For special phone numbers, such as an 800 number, you may prefer to have the recorded voice say "Eight hundred" followed by the number, instead of "Eight, zero, zero." In this case, you would touch the Hold button to enter a pause after the toll prefix, then again after the 800 area code, and again after the exchange. For example, 1-800-555-1212 would be entered as follows:

1 Hold 800 Hold 555 Hold 1212

- 5 Repeat for other lines.
- Touch Administer.
   The console beggs tielder.
- 7 Leave administration mode by sliding the T/P switch to the center position.



## PROGRAMMING

A button with a red and green light next to it is required for the DXD features.

To program a CF/DXD button on a voice terminal:

- Label the button CF/DXD.
- 2 Slide the T/P switch to P. The voice terminal rings every 5 seconds to remind you that you're programming and that you can't place or receive calls.
- 3 Touch the button you want to program.
- 4 Dial \*83.
- 5 Slide the T/P switch to the center position.



#### HOW TO USE

## Using the CF/DXD Button

Touching the CF/DXD button repeatedly cycles the system through DXD, CF, and normal modes. The red and green lights next to the CF/DXD button will help you recognize which mode the system is in.

Green and red light off = Normal mode Only green light on = DXD mode Only red light on = CF mode

# Disallowed List

## DESCRIPTION

Most businesses find it inappropriate for their employees to make billable calls to numbers such as those beginning with the "976" exchange or the "900" area code, for services such as, comedy, weather, sports, lottery, and chatlines. The Disallowed List feature enables you to deny access to up to 20 area codes, exchanges, and entire numbers, even on unrestricted lines.

If a voice terminal has been assigned a disallowed number, any attempt to dial that number will not go through. As soon as the dialed digits match any complete disallowed number, dialing is blocked. The only exception to this is if a System Speed Dial number with Restriction Override matches a number on the Disallowed List, the number will go through. (see "System Speed Dial" for more details.)

# CONSIDERATIONS

The Disallowed List can contain 20 numbers up to 16 digits each. This allows you to deny access to virtually any number combination, including area code/exchange, and foreign numbers. You can enter "wild card" digits (which are pauses in the administration procedure) by touching the Hold button. The pauses can be used to represent any area code or combination you require. For example, to prevent calls to the "976" exchange in any state, the disallowed number would be entered as 1ppp976 or 0ppp, where ppp represents any three digits (achieved by touching Hold three times).

You cannot dial a number on an Allowed List if it matches a number on the Disallowed List. For example, if 976-3535 is on the Allowed List, but the 976 exchange is on the Disallowed List, the number will not go through.

# ADMINISTRATION

If your responsibilities do not include system administration, skip this information.

As you administer a Disallowed List to your system, refer to the Disallowed List Form you completed in Section 2.

To set up a Disallowed List:

- Slide the T/P switch to P and touch Administer.
- 2 Dial \*09 followed by the Disallowed List code (01 to 20).
- 3 Dial the disallowed number (up to 16 digits). If the number includes wild card digits, touch Hold once for each wild card digit.
- Touch Administer.
   The console beeps twice.
- Leave administration mode by sliding the T/P switch to the center position.













To assign Disallowed List to voice terminals:

- Slide the T/P switch to P and touch Administer.
- 2 Dial \*0900.
- 3 Touch the Auto Intercom button or dial the appropriate code from the table below for the voice terminal you want to assign the Disallowed List. If you want to prevent all voice terminals in the system from dialing the number, touch Conference. To remove all voice terminals from a disallowed number assignment, touch Drop.

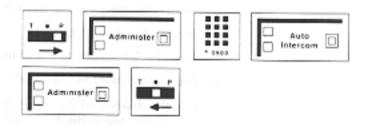
Green light on = Disallowed List assigned. Green light off = Disallowed List not assigned.

| If the intercom<br>number is: | Dial this code: | If the intercom<br>number is: | Dial this code: |
|-------------------------------|-----------------|-------------------------------|-----------------|
| Intercom 10                   | # 22            | Intercom 20                   | #03             |
| Intercom 11                   | #21             | Intercom 21                   | #04             |
| Intercom 12                   | #20             | Intercom 22                   | #05             |
| Intercom 13                   | #19             | Intercom 23                   | #06             |
| Intercom 14                   | #18             | Intercom 24                   | #07             |
| Intercom 15                   | #17             | Intercom 25                   | #08             |
| Intercom 16                   | #16             | Intercom 26                   | # 09            |
| Intercom 17                   | #15             | Intercom 27                   | # 10            |
| Intercom 18                   | # 14            | Intercom 28                   | #11             |
| Intercom 19                   | #13             | Intercom 29                   | #12             |

## Touch Administer.

The console beeps twice.

5 Leave administration mode by sliding the T/P switch to the center position.



To remove a number from a Disallowed List:

- Slide the T/P switch to P and touch Administer.
- Dial \*09 followed by the Disallowed List code (01-20) that you want to remove.
- 3 Touch Administer.
- Leave administration mode by sliding the T/P switch to the center position.











PROGRAMMING None

HOW TO USE

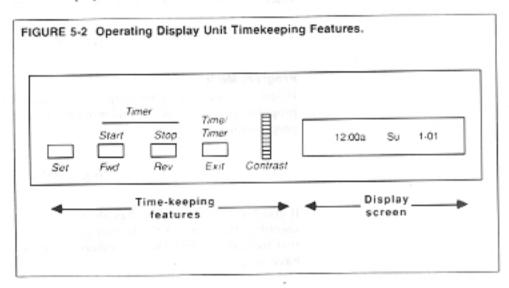
None

# Display Unit

## DESCRIPTION

Some 34-Button speakerphone voice terminals, namely, the BIS-34D and the 34-Button (SP-34D) voice terminal with display, are equipped with a display unit. You can also purchase one separately and add it later to a 34-Button (SP-34) voice terminal. To order the Display Unit, call the AT&T National Sales Parts Center's tollfree number, 1-800-222-PART, and ask for order number 105400030 (for black BIS-34 voice terminals).

The display provides information that helps you handle calls and program your voice terminal more easily. For example, when you dial a number or touch an Auto Intercom button, or when you receive an intercom call or a returned transfer call, the number associated with the call appears on the display screen. When you are programming a button, the display unit can help you check if the button has a feature already programmed onto it. If you have not yet programmed a feature on the button, the word "blank" appears on the display screen.



## CONSIDERATIONS

You can also use the display unit for providing an alarm, timing calls that you place or receive, and displaying the time, day, and the date. See Figure 5-2.

To adjust the clarity of the display screen characters, turn the contrast thumbwheel until the numbers and letters are clear.

Only the numbers for incoming intercom calls are displayed on the screen; the display unit does not show the identification of incoming calls from outside the system.

When the display is idle, the screen shows the time, day, and date.

The information appears on the screen for a maximum of 10 seconds. If you disconnect a call or touch another display option button, such as the Time/Timer button, before the 10 seconds are over, the display is replaced with the time/date display.

Dial the numbers and characters of your calls slowly so that the display unit can place them correctly on the screen.

## ADMINISTRATION

None

## PROGRAMMING

None

## HOW TO USE

To use the four features associated with the display unit, follow the instructions on the next few pages.

## Received Call ID

When you receive an intercom call, the 2-digit intercom number of the person calling you appears on the screen, as shown below.

23--On Intercom

When you transfer a call to another voice terminal and the call is unanswered, the call returns to your voice terminal. The 2-digit intercom number of the voice terminal from which the call is returning appears on the screen.

Trans Return--18

## Program Mode

When you begin programming, the display tells you that you are in the program mode and the intercom number of your voice terminal you are programming.

Program Mode 16

If you touch a button that has already been programmed, the display identifies the name of the feature on that button. The example below shows that the Last Number Redial feature has been programmed on the button you have touched.

Last Number

If the button has not been programmed, the message below appears on your display screen.

Blank

If you touch a preassigned, or nonprogrammable button, such as Conference or Hold, the following message appears on the display screen:

Not Programmable

Error

NOTE: You can use nonprogrammable buttons, such as Hold or Recall to enter a special character, such as a pause or a stop, into a dialing sequence.

#### Number Dialed

When you dial outside, intercom, or account numbers, or touch a button that contain numbers, such as an Outside Auto Dial, Auto Intercom, Last Number Redial, or Saved Number Redial button, the digits associated with that button are printed on the display screen.

5551234

The combined display screens in the Display Number Dialed feature can contain up to 16 digits. (It does not set the time and date for the Call Report and System Feature Report features.)

## Time-Keeping Features

The time-keeping features of the display unit allow you to set an alarm, clock, calendar, and timer.

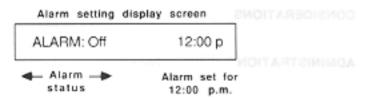
## Setting the Clock and Calendar



To set the time, day, and date on the display screen:

- Press Set until the item you want to change flashes.
- Press Fwd or Rev to advance or reverse the time, day or date.
- When you are finished, press Exit.

#### Setting the Alarm



To set the alarm (for example, when you want a reminder that you have a meeting in five minutes):

- a Press Set until the item you want to change flashes.
- b Press Fwd or Rev to advance or reverse the time until the display shows the time you want the alarm to sound.
- When you are finished, press Exit.

## Operating the Timer

# 12:03a 00:00 **◆** Clock ► **◆** Timer ►

how betterwood stignts and To operate the timer for calls you need to time: Press Time/Timer (to display timer), and the control of the contr

- a Press Timer Start to turn the timer to 00:00 and start it.
- b When you are finished using the timer, press Timer Stop.

When you want to return to the Clock/Calendar display, which shows the time, day, and date:

Press Time/Timer.

When you want to return to the call handling display:

Press Time/Timer.

# Do Not Disturb (DND)

#### DESCRIPTION

When you are busy and do not want to receive calls, you can touch the Do Not Disturb button, if you have programmed one onto your voice terminal. When you receive outside calls, the green light next to the line button flashes, but your voice terminal does not ring.

Calls transferred to you return to the sender, and intercom calls get a busy signal.

When you activate the Do Not Disturb at your voice terminal, the green light goes on next to your Auto Intercom button at other people's voice terminals.

Calls you transfer will return to you if they are unanswered.

#### CONSIDERATIONS

None

#### ADMINISTRATION

None

## PROGRAMMING

The Do Not Disturb feature requires a button with lights.

To program a Do Not Disturb button for your voice terminal:

- 1 Label the button Do Not Disturb.
- subjects and fitting additional 2 Slide the T/P switch to P.

The voice terminal rings every 5 seconds to remind you that you are programming and that you cannot place or receive calls.

3 Touch the button you want to program.

- Dial \*71.
- Slide the T/P switch to the center position.



## HOW TO USE

To prevent calls from ringing at your voice terminal:

Touch Do Not Disturb. The green light next to the button goes on.



This feature remains active until you:

 Touch Do Not Disturb again. The green light next to the button goes off.



# Drop

#### DESCRIPTION

If you get a busy signal or no answer as you set up a conference call, or if you want to disconnect one outside line at a time from a conference call, use

Drop feature. For more information about using this feature, see "Conference."

## CONSIDERATIONS

If you press the switchhook, you may disconnect everyone on the conference call.

In order for a person within the MERLIN Plus system to be disconnected from the conference, he or she must hang up.

## ADMINISTRATION

None

## PROGRAMMING

None

## HOW TO USE

To disconnect one outside line at a time from a conference call:

- Touch Drop.
- Touch the button of the line you want to disconnect.



# Group Listening

## DESCRIPTION

If you want other people in your office to hear a call, you can turn on your voice terminal speaker. Everyone can then hear the voice of the other person on the call without that person being aware that the call is on a speaker.

## CONSIDERATIONS

This feature is not available on the BIS model voice terminals.

Your speaker may make a squealing noise when the handset comes close to it. To prevent this noise, touch Speaker when you have completed a call and are ready to hang up your handset. Another way to reduce the squealing sound is to turn down the volume control on your voice terminal.

## ADMINISTRATION

None

## PROGRAMMING

None

#### HOW TO USE

To allow others to hear a call:

Without hanging up, touch Speaker and continue your conversation.



# Group Page

## DESCRIPTION

The system administrator can set up Group Page groups so anyone in the system can use the Group Page feature to page up to 20 people at a time directly through the voice terminal speakers.

You can have up to three paging groups. The Page-All group consists of all voice terminals in the system; groups 1 and 2 can have up to 20 voice terminals in each group.

## CONSIDERATIONS

If necessary, one voice terminal can be assigned to more than one paging group.

You can program buttons for the groups you want to page. Or, you can save available feature buttons for other uses and use a dial code for this feature.

If someone in the Group Page group picks up the handset during a Group Page announcement, he or she is connected to the person making the announcement, and the page announcement is terminated.

When someone in the MERLIN Plus system has activated the Voice Announcement Disable feature for his or her voice terminal, he or she cannot hear a Group Page announcement.

## ADMINISTRATION

If your responsibilities do not include system administration, skip this information.

When the system is first set up, the system has the following Group Page groups:

> Group 1 = voice terminals 10 through 19 Group 2 = voice terminals 20 through 29 Page-All = voice terminals 10 through 29

If these group assignments are not satisfactory for the system, the administrator can add or delete voice terminals from the individual groups.

The Page-All group, the paging group containing all the voice terminals in the system, cannot be administered.

Before you begin to administer Group Page groups, refer to "Paging Groups" on your 'System Configuration Form.' Then use one of the following procedures to add or remove a voice terminal from a paging group;

To administer the Group Page feature, follow this procedure:

- 1 Enter administration mode by sliding the T/P switch to P and touching Administer.
- 2 Dial \*71 for group 1 or \*72 for group 2. A green light goes on next to the Auto Intercom button, if you have one, of any voice terminal already assigned to that paging group.

- 3 Perform the appropriate procedure:
  - Touch the appropriate Auto Intercom button(s) until the green light beside it shows the paging group assignment you prefer.

Green light on = voice terminal is assigned to the group Green light off = voice terminal is not assigned to the group | 3

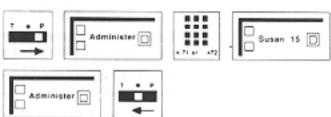
If you do not have an Auto Intercom button for the voice terminal you want to add or remove from the paging group, dial a code from the chart below that corresponds with the voice terminal.

| If the intercom<br>number is: | Dial this code: | If the intercom<br>number is: | Dial this code: |  |
|-------------------------------|-----------------|-------------------------------|-----------------|--|
| Intercom 10                   | #22             | Intercom 20                   |                 |  |
| Intercom 11                   | #21             | Intercom 21                   | #04             |  |
| Intercom 12                   | #20             | Intercom 22                   | #05             |  |
| Intercom 13                   | #19             | Intercom 23                   | # 06            |  |
| Intercom 14                   | # 18            | Intercom 24                   | #07             |  |
| Intercom 15                   | # 17            | Intercom 25                   | #08             |  |
| Intercom 16                   | ₩ 16            | Intercom 26                   | # 09            |  |
| Intercom 17                   | W.15            | Intercom 27                   | #10             |  |
| Intercom 18                   | #14             | Intercom 28                   | #11             |  |
| Intercom 19                   | #13             | Intercom 29                   | # 12            |  |

4 Touch Administer.

The console beeps twice.

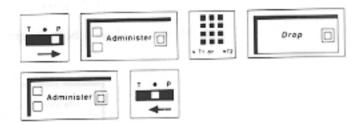
- 5 Follow steps 2 through 4 for each paging group you want to administer.
- 6 Leave administration mode by sliding the T/P switch to the center position.



If you want to clear all entries from group 1 or from group 2:

- Enter administration mode by sliding the T/P switch to P and touching Administer.
- 2 Dial \*71 for group 1 or \*72 for group 2.
- Touch Drop.
- Touch Administer. The console beeps twice.

Leave administration mode by sliding the T/P switch to the center position.



# PROGRAMMING

To program a Group Page button for your voice terminal:

- Label the button Group Page plus a group number.
- Slide the T/P switch to P. The voice terminal rings every 5 seconds to remind you that you are programming and that you cannot place or receive calls.
- Touch the button you want to program.
- Dial \*91 plus a Group Page code:

70 = Page-All (all voice terminals in the system)

71 — group 1

72 = group 2

Slide the T/P switch to the center position.



## HOW TO USE

You can use a programmed button or a dial code to access this feature.

To use a Group Page button to make an announcement through a group of voice terminal speakers:

- Touch the Group Page button for the group you want to page.
- When you hear a beep, lift your handset and make the announcement.

NOTE: If you don't lift your handset to make the announcement and another BIS terminal is nearby, you may hear a loud squeal from your voice terminal.



To page a group using a dial code:

- Touch Intercom.
- Touch Speakerphone or lift your handset.

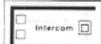
3 Dial the code for the group you want to page:

70 = Page-All (all voice terminals in the system)

71 = group 1

72 = group 2

4 When you hear a beep, begin speaking.







# Hands-Free Answer on Intercom (HFAI)

## DESCRIPTION

If you are using a voice terminal that has a Hands-Free Answer on Intercom (HFAI) button on it, without lifting your handset, you can touch the HFAI or HFAI/Mic button when you want to answer intercom calls hands free. You will hear the other person's voice through your voice terminal speaker.

#### CONSIDERATIONS

The HFAI feature can only be used for intercom calls, not outside calls. It is not for use with group paging calls. When you turn on the HFAI feature, the green light next to the button goes on. For optimal use of the HFAI feature and speakerphone voice terminals, follow these guidelines:



Room acoustics and background noise may affect the proper operation of your voice terminal's speakerphone. High background noise is caused by loud voices and loud electronic devices (radios, typewriters, etc.).

- · Keep the area near the microphone free of books and papers.
- Let one person talk at a time. When both parties speak at the same time, transmission can be broken.
- Always face your terminal when talking.
- Place your voice terminal at least six inches away from the edge of the desk or table upon which it rests.

NOTE: If you are having difficulty hearing the other person, increase the speaker's volume level. (Refer to CIB 3078, "Adjusting the Volume Control Switch on Your Voice Terminal" for further information.)

Certain conditions may cause difficulty with the speakerphone to persist.
 If raising the volume level on the speaker does not help, (see NOTE above), lift the handset to continue the conversation.

ADMINISTRATION

None

PROGRAMMING

None

#### HOW TO USE

If you have a HFAI button on your voice terminal and you want your intercom calls answered automatically:

Touch HFAI or touch HFAI/Mic.

The green light flashes on BIS-10 and 10-Button HFAl models when active on a call and remains steady on all other BIS models.



## Hold

#### DESCRIPTION

When you need to put someone on hold, use the Hold feature.

#### CONSIDERATIONS

Before placing an intercom call on hold that has been answered using the HFAI feature, lift the handset or the call will be disconnected.

When you leave a call on hold for more than a minute, your voice terminal rings at one minute intervals to remind you the call is still on hold.

You can program an Exclusive Hold button so that no other voice terminal can pick up a call you've put on hold. For more information about the Exclusive Hold feature, see the entry for "Hold-Exclusive" in this section.

If a caller placed on hold hangs up, the system will automatically drop the line. If the light continues to flash after a caller has hung up, the Hold Disconnect Interval may be too long (450 milliseconds) for the local telephone company to detect. See "Hold Disconnect Interval" for information to correct this problem.

#### ADMINISTRATION

None

#### PROGRAMMING

None

#### HOW TO USE

To place a call on hold:

- 1 If the call was answered using the HFAI feature, lift the handset.
- 2 Touch Hold.



When you put a call on hold, the green light next to the call's line button flashes rapidly. If someone else puts a call on hold from another voice terminal, the green light flashes slowly next to the call's line button on your voice terminal.

To take a call off hold:

 Touch the call's line button. The green light becomes steady.



# Hold Disconnect Interval

#### DESCRIPTION

Telephone company central offices use either a "short" (50 millisecond) or a "long" (450 millisecond) disconnect interval. Because most switching systems use a long interval, your MERLIN Plus system is factory-set for a long interval. If your telephone company uses a short interval, or if your MERLIN Plus system has been reprogrammed, the disconnect interval for your system may cause problems with held calls.

#### CONSIDERATIONS

If your system has either of the following problems, the system administrator must change the Hold Disconnect Interval:

- If a caller waiting on hold is disconnected, the disconnect interval setting of your MERLIN Plus system is shorter than the setting at your local telephone company's central office.
- If a caller waiting on hold hangs up, but the light next to that line continues to flash as if the call was still on hold, the disconnect interval setting of your MERLIN Plus system is longer than the setting at your local telephone company's central office.

You can perform a quick test to see if you need to change the interval from 450 milliseconds to 50 milliseconds. Make an outside call to someone who would be willing to help you for a few minutes. Ask them to hang up the phone ten seconds after you put them on hold. When they're ready, put the call on hold. If the call is not dropped within a few minutes, the Hold Disconnect Interval needs to be administered to 50 milliseconds.

#### ADMINISTRATION

If your responsibilities do not include system administration, skip this information.

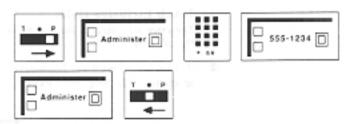
To change the disconnect interval of your MERLIN Plus system to match the central office disconnect interval:

- 1 Enter administration mode by sliding the T/P switch to P and touching Administer.
- 2 Dial the 3-character code \*69.

3 Touch each line button to change its disconnect interval. Each touch of the button gives you one of the following codes:

> Steady green light on = line has long disconnect interval Green light off = line has short disconnect interval

- Touch Administer.
- Leave administration mode by sliding the T/P switch to the center work position.



PROGRAMMING

None

HOW TO USE

None

## Hold-Exclusive

#### DESCRIPTION

By programming the Exclusive Hold feature onto a button, you can put an outside caller on Exclusive Hold, which means that no one else at another voice terminal in the system can pick up the held call.

#### CONSIDERATIONS

This feature must be programmed on a button with a green light.

To place a call on normal hold, after it's been placed on Exclusive Hold, or vice versa, you must reconnect with the caller before touching the hold

When you leave a call on Exclusive Hold for more than one minute, your voice terminal rings at one minute intervals to remind you that the call is on hold.

### ADMINISTRATION

None

#### PROGRAMMING

You need a button with a green light to program an Exclusive Hold button:

- Label the button "Exclusive Hold."
- Slide the T/P switch to P. The voice terminal rings every five seconds to remind you that you are programming and you cannot place or receive calls.
- Touch Exclusive Hold.
- Dial \*77.

Slide the T/P switch to the center position.



#### HOW TO USE

To put an outside call on hold so no one else in the system can pick up the call:

- Touch Exclusive Hold. The green light next to the line button of the held call flashes rapidly to remind you that the call is on hold.
- 2 If a call has been on Exclusive Hold for more than a minute, your voice terminal will ring once every minute to remind you that the call is waiting.



To pick up the call that you have put on Exclusive Hold.

Touch the line button of the held call.



To place a call on normal hold after it's been placed on Exclusive Hold:

- 1 Touch the line button of the held call.
- Touch Hold.



## Hold Retrieve

#### DESCRIPTION

If you do not have a line button for a call that you have received or that has been transferred to you, you can still put it on hold using the Hold button. However, to retrieve the call, you must use a dial code or program a Retrieve Call button.

#### CONSIDERATIONS

To use this feature, you can either program a button or use a dial code.

This feature is especially useful for 5-Button voice terminals that may not have line buttons for every incoming or transferred call.

If your system administrator has set your voice terminal for Button-Free Line

Operation, you should have a Hold Retrieve button on your voice terminal, so that you can put calls on hold and retrieve them later. (See "Button-Free Line Operation.\*)

### ADMINISTRATION

None

#### PROGRAMMING

To program a Hold Retrieve button for your voice terminal:

- Label the button Retrieve Call.
- Slide the T/P switch to P. The voice terminal rings every 5 seconds to remind you that you are programming and that you cannot place or receive calls.
- 3 Touch the button you want to program.
- Dial \*95\*.
- Slide the T/P switch to the center position.



#### HOW TO USE

You can use a programmed button or a dial code to access this feature.

To put a call on hold:

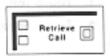
Touch Hold.



You can use a programmed button or a dial code for the Hold Retrieve feature.

To use a Retrieve Call button to retrieve a held call:

Touch Retrieve Call.



To use a dial code to retrieve a held call:

1 Dial #\*.



## Intercom

#### DESCRIPTION

Each voice terminal connected to the MERLIN Plus system has a unique 2digit intercom number. You can dial intercom numbers to place calls to people connected to the system.

#### CONSIDERATIONS

In the MERLIN Plus system, you place an intercom call with a voice announcement. Your co-worker hears your voice through the voice terminal speaker, and can either touch Speakerphone or lift the handset to respond to

However, if the person you are calling has activated the Voice Announcement Disable feature, your intercom call rings rather than beeps at the person's voice terminal and you cannot give your voice announcement. (See "Voice Announcement Enable/Disable.")

If you program an Auto Intercom button for the intercom number you want to call, you can dial the number with one touch. (See 'Auto Intercom.")

You cannot announce an intercom call to a person active on the voice terminal's speaker.

#### ADMINISTRATION

None

#### PROGRAMMING

None

#### HOW TO USE

To place an intercom call with a voice announcement:

- Touch Intercom.
- Touch Speakerphone or lift your handset.

- Dial the 2-digit intercom number for the voice terminal you want to call.
- When you hear a beep, begin speaking.

If you hear ringing, wait for the person to answer,



# Intercom Preference

#### DESCRIPTION

Intercom Preference provides an intercom line immediately upon touching Speakerphone or lifting the handset.

#### CONSIDERATIONS

If you are at a voice terminal that either has Intercom Preference or has no outside lines assigned to it, you will be connected to an intercom line when you touch Speakerphone or lift your handset.

> NOTE: This feature does not remove access to outside lines from the voice terminal; outside lines can only be removed by the attendant at the attendant console during administration. If you want to restrict access to outside lines for a voice terminal located in a lobby or public area, you would have to administer this restriction. However, to provide the convenience of an intercom line immediately upon pickup, use Intercom Preference.

#### ADMINISTRATION

None

#### PROGRAMMING

To program Intercom Preference:

- Slide the T/P switch to P.
- Dial \*\*\*\*.
- Slide the T/P switch to the center position.





#### HOW TO USE

If the voice terminal you are using has been programmed for Intercom Preference, you will be connected to an intercom line when you either touch Speakerphone or lift your handset.

# Last Number Dial

#### DESCRIPTION

With a Last Number Dial button, you can redial with one touch the number you dialed most recently. Each time you want this feature to redial a number, you must touch the programmed Last Number Dial button. You do not need to do anything to save this number.

#### CONSIDERATIONS

You may also use the Busy Buster feature to redial the number you dialed most recently. The Busy Buster feature automatically redials up to 15 times the last number you dialed at approximately 30 second intervals. If someone answers the call within this time, your voice terminal alerts you. To use this feature, the system administrator must have assigned the feature to a voice terminal jack on the control unit. See "Busy Buster" earlier in this section for more information.

On BIS-10 and BIS-22 model voice terminals, the Personal Speed Dial code #24 is pre-programmed as the default for Last Number Dial. (See "Personal Speed Dial, later in this section.)

The Last Number Dial can contain up to 16 digits.

The Last Number Dial feature saves manually dialed numbers and numbers dialed with an Outside Auto Dial button.

If you make frequent calls to a few numbers, it may be more convenient for you to use the Saved Number Dial feature to help you redial numbers correctly. (See "Saved Number Dial.")

#### ADMINISTRATION

None.

#### PROGRAMMING

To program a button on your voice terminal for the Last Number Dial feature:

- Label the button Last Number.
- Slide the T/P switch to P. The voice terminal rings every 5 seconds to remind you that you are programming and that you cannot place or receive calls.
- 3 Touch the button you want to program.
- Dial \*73 (you do not need to dial an outside number).
- Slide the T/P switch to the center position.









#### HOW TO USE

You can use a programmed button or a dial code to access this feature.

If you are using the Last Number Dial feature, you can follow this procedure to have the system redial the last number you dialed:

- Without touching Speakerphone or lifting your handset, touch Last Number, or dial #24 if you haven't reprogrammed this as a personal speed dial code.
  - Your voice terminal speaker goes on, and you hear dialing.
- When you hear the other person answer, begin talking or lift your handset and begin talking.



If the line is busy, or if no one answers:

Touch Speakerphone or hang up the handset to cancel the call.



If later you want the system to redial the number, touch Last Number, or dial #24 again.

# Lights

#### DESCRIPTION

The lights next to the line buttons on your MERLIN Plus system voice terminal give you immediate status of any of your lines. There is also a light next to the Message button, and, on most voice terminals, there is a light next to the Speakerphone button.

The lights next to the feature buttons on your voice terminal indicate the on/off status of the feature programmed on that button.

| Lights   | Line Status   |  |
|--|---|--|
| Red light steady   | This is either the line you are now using or the line you will get when you touch Speakerphone or lift your handset.                                      |  |
| Green light steady   | This line is busy or the feature is activated.  |  |
| Green light flashing   | This is the line on which a call is coming in.  |  |
| Green light flashing rapidly   | This is the line of a call you have put on hold.  |  |
| Green light flashing slowly  | This is the line of a call someone else has put on hold from another voice terminal.  |  |
| Alternating flashing red and green lights on a line you are using  | Someone in the system has bridged onto your call.   |  |
| Green light on next to the Message button  | This means that the attendant has a message waiting for you.  |  |
| Green light on next to the Speakerphone button   | This means that the voice terminal speaker is on. Without lifting the handset, you can begin dialing, or you can hear a conversation through the speaker. |  |
| Green light on next to the HFAI/Mic<br>button on a BIS-10 or 10-Button HFAI<br>voice terminal or next to the HFAI<br>button on any other BIS or HFAI voice<br>terminal | You can answer and speak to others<br>on intercom calls without lifting your<br>handset.  |  |
| Green light on next to the<br>Speakerphone and Microphone buttons<br>on any BIS voice terminal   | You can answer and speak to others<br>on all calls without lifting your<br>handset.   |  |
| Green light on next to the Call<br>Forwarding/Direct Extension Dialing<br>(CF/DXD) button  | The system is in DXD mode.  |  |
| Red light on next to the CF/DXD button   | The system is in CF mode  |  |
| Green light on next to the Remote Line<br>Access (RLA) button  | The system is in RLA mode   |  |
| Green light on next to the System<br>Answer (SA) button.   | The system is in SA mode.   |  |

CONSIDERATIONS

None

ADMINISTRATION

None

PROGRAMMING

None

HOW TO USE

None

# Line Request

#### DESCRIPTION

If any or all the lines that appear on your voice terminal are busy, you can still request the use of one of these intercom or outside lines. When the line becomes available, the system alerts you.

#### CONSIDERATIONS

If two or more people request the same line, the system places them in a queue according to the sequence in which the people requested the line. When the line is free, the system checks the queue, and the first person who requested the line is alerted.

If the line is not used within 10 seconds after the voice terminal has received the alert, the next voice terminal in the queue is alerted. This process is repeated until the queue is empty.

If the voice terminal is idle, the red light goes on next to the line that was requested. If the voice terminal is busy, the red light does not go on next to that line.

The Line Request feature does not reserve a line. Anyone in the MERLIN Plus system who has the line appearance can use the line when it is free.

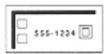
#### ADMINISTRATION

#### PROGRAMMING

### HOW TO USE

To request an intercom or outside line that is presently busy:

- 1 Touch the intercom or outside line button of the line you want to use. The red light goes on next to the line button you requested.
- 2 The MERLIN Plus system signals you with a beep when the line becomes



# Line Select

#### DESCRIPTION

You may need to make an outside call at a time when you also need to leave your primary line open for incoming calls. If your voice terminal has more than one outside line, you can select a line other than your primary line for an outside call.

#### CONSIDERATIONS

None.

#### ADMINISTRATION

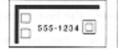
None

#### PROGRAMMING

None

HOW TO USE To select a specific outside line:

- 1 Touch the button for the specific outside line you want to use. The red light goes on beside the line you select.
- 2 Touch Speakerphone or lift your handset and dial.





# Loudspeaker Paging

NOTE: This feature is used with an optional loudspeaker paging system and is compatible with paging systems with talkback. Refer to "Loudspeaker Paging System" under "Accessories" at the end of this section for more information.

### DESCRIPTION

If you have a Loudspeaker Paging System connected to the MERLIN Plus system, you can page people, make announcements, and provide background music (if available) throughout the building.

You have two options:

- 1 You can connect the loudspeaker paging system to the Page Jack on the front of the control unit.
- 2 You can connect the loudspeaker paging system to a CO (outside) line jack on a line module and administer that jack as a paging port.

#### CONSIDERATIONS

Refer to "Loudspeaker Paging System" under "Accessories" at the end of this section.

#### ADMINISTRATION

Refer to "Loudspeaker Paging System" under "Accessories" at the end of this section.

#### PROGRAMMING

If your loudspeaker paging system is connected to the page jack on the control unit, you can program a loudspeaker paging button to use instead of a dial code whenever you want to page someone.

A button with lights is recommended for the Loudspeaker Page feature:

- 1 Label the button Loudspeaker Page.
- 2 Slide the T/P switch to P. The voice terminal rings every 5 seconds to remind you that you are programming and that you cannot place or receive calls.
- 3 Touch Loudspeaker Page.
- 4 Dial \*91.
- 5 Dial 6.
- 6 Slide the T/P switch to the center position.











### HOW TO USE

If your loudspeaker paging system is connected to a CO line, follow this procedure:

- 1 Touch the loudspeaker page's line button.
- 2 Follow the instructions provided with your loudspeaker page system.

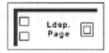




If your loudspeaker paging system is connected to the page jack on the control unit, you can use a programmed button or a dial code to access the Loudspeaker Page feature.

To use a Loudspeaker Page button:

- Touch Loudspeaker Page.
- 2 When you hear the beep, lift your handset and make your announcement.





To use this feature by dialing a code:

- Touch Intercom.
- Lift your handset.
- Dial 6.
- When you hear a beep, make your announcement.







When you hang up, the loudspeaker turns off automatically.

# **Manual Signaling**

### DESCRIPTION

You can use a Manual Signaling button to generate a beep at a co-worker's voice terminal. Most often, this feature is used by a boss who wants to buzz his or her secretary. Assign a Manual Signaling button to each person you want to signal.

### CONSIDERATIONS

You can signal someone with a Manual Signaling button while you have an outside call in progress.

The beep sounds at your co-worker's voice terminal even if it is busy.

If you program this feature on a button with lights, the green light next to the button goes on when your co-worker uses his or her voice terminal or uses the Do Not Disturb feature.

You cannot have both a Manual Signaling button and an Auto Intercom button for the same person. If you try to program both, you deactivate the feature that you programmed earlier. You can use either feature to place an intercom call. (See 'Auto Intercom.')

#### ADMINISTRATION

None

#### PROGRAMMING

To program a Manual Signaling button for your voice terminal:

- Label the button Signal plus a name.
- Slide the T/P switch to P. The voice terminal rings every 5 seconds to remind you that you are programming and that you cannot place or receive calls.
- 3 Touch the button you want to program.

- 4 Dial \*6 plus an intercom number.
- 5 Slide the T/P switch to the center position.



### HOW TO USE

To signal a co-worker:

1 Without lifting your handset, touch a Manual Signaling button. The signal is heard as long as you continue to touch the button.



To place an intercom call using a Manual Signaling button:

- Touch Intercom.
- 2 Touch Speakerphone.
- 3 Touch the Manual Signaling button for the person you want to call.
- 4 If you hear a beep, start talking (or lift your handset to speak). If you hear ringing, the voice signaling path is busy and the voice terminal is being alerted with the intercom ring.



# Message

DESCRIPTION

When the light next to the Message button is on, your MERLIN Plus system attendant has a message for you.

CONSIDERATIONS

Your Message light can only be turned on from the administrator/attendant console.

If the attendant is using a BIS-22 and the system has more than 10 voice terminals, refer to "Send Message" for directions on sending a message to voice terminals in the system.

5-button voice terminals do not have a Message button.

ADMINISTRATION

None

#### PROGRAMMING

None

#### HOW TO USE

The system attendant can touch Message to turn on the light next to the Message button at a person's voice terminal.

- At the administrator/attendant console, touch Send Message.
- Touch the Auto Intercom button for the person's voice terminal. The red light next to the Auto Intercom button goes on, indicating the person's light is lit.



A person can turn off the Message light on his or her voice terminal. The system attendant can also turn off the light at a voice terminal by repeating the two steps above.

# Monitor-on-Hold

#### DESCRIPTION

This feature is only for use with voice terminals that have a speaker button but not a speakerphone button. When someone puts your call on hold, you can turn on your voice terminal's built-in speaker, hang up, and continue working while you wait for the person to return to the call.

#### CONSIDERATIONS

None

#### ADMINISTRATION

None

#### PROGRAMMING

None

#### HOW TO USE

To turn on your speaker until you are taken off hold:

- When you have been put on hold, touch Speaker.
- Hang up.
- When you hear the person return to the call, lift your handset and continue the call.

The speaker automatically turns off.







# Night Service

#### DESCRIPTION

When the person who usually answers calls leaves for the day, you can make answering calls after hours easy for night shift personnel and security guards by providing Night Service for your office. You can implement Night Service one of three ways:

- Provide the person with a voice terminal that has all the lines, or have the person monitor the attendant console and answer calls there. Be sure that all lines on which calls come in after hours are set for immediate ring. If the lines are not normally set for this ringing option, the person can activate the Ring Override feature that he or she has programmed for the voice terminal. (See "Ring Override.")
- The backup person can also answer calls that come in after hours by programming a Call Pickup button so that he or she can pick up calls ringing at the administrator/attendant console. Since the attendant console has all the lines of your MERLIN Plus system, the person answering calls after hours can pick up calls at his or her voice terminal by touching the Call Pickup button when the attendant console rings. (See "Call Pickup.") If the person is in another part of the building, the attendant can connect his or her console and an extra alert device to a Supplemental Alert Adapter (see "Supplemental Alert Adapter" under "Accessory Equipment"), so that each time a call comes in, an extra alert device sounds.
- You can also choose to administer and activate the Call Forwarding feature for after-hours use (see "Call Forwarding" in this section). When the system is in Call Forwarding mode, you can administer incoming calls on designated lines so that they are connected to a Voice Synthesis Processor (VSP) in the control unit. The VSP message informs the caller that the call will be forwarded. While the caller is listening to the message, the control unit calls the telephone number to which calls are being forwarded and uses the system's Conference feature to connect the incoming call to the outgoing call.

#### CONSIDERATIONS

#### ADMINISTRATION

The system administrator must decide who will answer calls that come in after hours and how those calls will be answered.

#### PROGRAMMING

For programming procedures for Call Pickup, Ring Override, and Call Forwarding features, see the individual entries for these features in this section.

#### HOW TO USE

For further information on the attendant console, see Section 4, "Using the Attendant Console." If you need help in using the Call Pickup, the Ring Override, or the Call Forwarding features, see the entries "Call Pickup," "Ring Override," or "Call Forwarding" in this section.

# One-Touch Dialing

and profiton as In the MERLIN Plus system, there are six features that allow you to dial or not becomes good and order redial a telephone number with the touch of a button.

- Outside Auto Dial—Dial an outside number by touching a button. An Outside Auto Dial button can hold a maximum of 16 digits.
- Auto Intercom—Dial an intercom number with one touch whenever you want to call someone connected to your MERLIN Plus system.
- System Speed Dial-If your system administrator has assigned a System Speed Dial code (#60 through #89 or #900 through #999) to a frequently dialed telephone number or account number, you can program the speed dial code onto an available voice terminal button. Then when you want to dial the telephone number or enter the account number on a call report, just touch the System Speed Dial button for that number.
- Last Number Dial-If you have programmed a Last Number button for your voice terminal, you can redial with one-touch the most recent number that you dialed. Each time you want this feature to redial a number, you must touch the programmed Last Number Dial button. You do not need to do anything to save this number.
- Busy Buster- This feature automatically redials up to 15 times (in 30 second intervals) the most recent number you dialed. If someone answers the call within this time, your voice terminal alerts you. To use this feature, the system administrator must have assigned the feature to a voice terminal jack.
- Saved Number Dial-If you have Saved Number buttons on your voice terminal, you can save numbers for later redialing. When you are ready to redial each of the telephone numbers, merely touch the Saved Number button on which you have saved that number.

### CONSIDERATIONS

In order to use any one of these six One-Touch Dialing features, you must program it onto an available button on your voice terminal.

The system administrator can use the Program Mode Lock feature to prevent programming from individual voice terminals. If this feature is enabled for your voice terminal, you will not be able to program these buttons.

#### ADMINISTRATION

None

#### PROGRAMMING

If you want to use any of the six One-Touch Dialing features, you must program them onto your voice terminal. For programming procedures for each of the features, see their separate entries in this section.

### HOW TO USE

When you want to use one of the six One-Touch Dialing features, merely touch the appropriate button.

# **On-Hook Dialing**

### DESCRIPTION

Instead of using your handset to listen while you place a call, you may want to use your voice terminal's built-in speaker.

### CONSIDERATIONS

When instructions in this guide tell you to lift your handset before dialing, you may choose to leave your handset on-hook and use the speaker instead.

If you have a Speakerphone button, you can use it when you dial a call, so you can speak with people hands-free. See the "Hands-Free Answer on Intercom" feature in this section for more information on speakerphone guidelines.

#### ADMINISTRATION

None

#### PROGRAMMING

None

#### HOW TO USE

To use the speaker while you place a call:

- 1 Without lifting your handset, touch Speakerphone or Speaker.
- 2 Dial the number.
- 3 When you hear the other person answer, begin your conversation.



If the line is busy, or if you get no answer:

Touch Speakerphone or Speaker to cancel the call.



## Outside Auto Dial

#### DESCRIPTION

You can use Outside Auto Dial to dial frequently used numbers and codes with one touch. These numbers and codes can include telephone numbers, and PBX, Centrex, or Custom Calling feature codes. You can include up to 16 numbers and special characters in an Outside Auto Dial sequence.

#### CONSIDERATIONS

Any time instructions tell you to dial an outside number, you can touch an Outside Auto Dial button instead if you have one programmed for the number you want to dial.

You may need to program a pause, stop, or switchhook flash into an Outside Auto Dial sequence, or you may need to switch from rotary to Touch-Tone signals in the middle of a programmed dialing sequence. To do so, you must enter one or more of the following special characters when you program the sequence. (For more information about using special characters in a dialing sequence, see "Special Characters in Dialing Sequences.")

- To program a pause, touch Hold.
- To program a stop, touch Drop.
- To program a switchhook flash at the beginning of a number, touch Recall and then touch Hold.
- To program Touch-Tone Enable, touch Transfer.

Your MERLIN Plus system may work behind a PBX or a Centrex system or you may want to use Custom Calling features. If so, use the PBX, Centrex, or Customer Calling features exactly as their instructions describe. However, there are two important exceptions:

Any PBX, Centrex, or Custom Calling feature code that begins with a "#" must be preceded by another "#" in order to operate in the MERLIN Plus system. For example, if PBX, Centrex, or Custom Calling instructions tell you to dial #1234, you must dial # #1234 in order to use the feature.

NOTE: If you will be doing this frequently, you may want to program ## on a button.

When PBX, Centrex, or Custom Calling instructions tell you to include a switchhook flash, you must touch Recall instead, If you touch the switchhook, you'll disconnect the call.

#### ADMINISTRATION

None

#### PROGRAMMING

To program an Outside Auto Dial button for your voice terminal:

- Label the button with a name and/or a number.
- Slide the T/P switch to P. The voice terminal rings every 5 seconds to remind you that you are programming and that you cannot place or receive calls.
- 3 Touch the button you want to program.

- Dial \*90 plus a telephone number or a PBX or Centrex code (if you need to include a special character in the dialing sequence, use the directions above).
- Slide the T/P switch to the center position.











### HOW TO USE

To dial an outside number with one touch:

- Without touching Speakerphone or lifting your handset, touch the Outside Auto Dial button for the number you want to dial. Your voice terminal speaker goes on, and you hear dialing.
- If you programmed the special character STOP in a dialing sequence, after you hear the second dial tone, touch the Outside Auto Dial button again to continue the dialing.
- When you hear the other person answer, start speaking or lift your handset then start speaking.



If the line is busy or if no one answers:

Touch Speakerphone or hang up to cancel the call.



# Personal Lines

#### DESCRIPTION

When the system administrator assigns lines to voice terminals, he or she can select lines that will serve as personal lines for individuals in the business, such as the president of the company. No one else has these lines on his or her voice terminal. Calls that come in on these personal lines will not ring at other voice terminals or at the attendant's console.

#### CONSIDERATIONS

A secretary can cover calls that come in on his or her boss' personal line by having the line assigned to his or her own voice terminal and programming the line for immediate ring. A secretary can screen calls that come in on the personal line by programming the line on the boss' voice terminal to delayed ring or no ring and programming the line at his or her own voice terminal for immediate ring. (See "Ringing Options.")

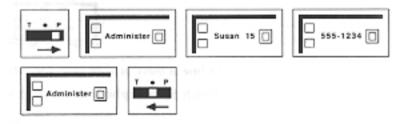
If your responsibilities do not include system administration, skip this information.

To assign a personal line to a voice terminal:

- Enter administration mode by sliding the T/P switch to P and touching Administer.
- Touch the Auto Intercom button or dial the intercom number for the voice terminal to which you want to assign a personal line. A green light goes on next to the Auto Intercom button. Green lights also go on next to the buttons of any lines already assigned to the voice terminal.
- 3 To add the personal line, touch the line button associated with that line until the green light next to it goes on.

NOTE: If another voice terminal in your system has that line, you must remove it from that voice terminal by dialing the intercom number for that voice terminal and touching the line button that corresponds with that line so that green light next to it goes off.

- Touch Administer. The console beeps twice.
- Leave administration mode by sliding the T/P switch to the center position.



#### PROGRAMMING

None

HOW TO USE

You can begin speaking when a call comes in on your personal line. If you want your personal line to be the first line in your Automatic Line Selection sequence, tell your system administrator when he or she administers that feature for your voice terminal. (See "Automatic Line Selection.")

# Personal Speed Dial

#### DESCRIPTION

If you don't have many available buttons on which to program Outside Auto Dial, you can use the programming instructions below to assign a 3-character Personal Speed Dial code (from #01 through #24 for BIS-10 models and from #01 through #12 for BIS-22 models) to telephone numbers, PBX, Centrex, or Custom Calling feature codes you frequently dial.

You can assign a Personal Speed Dial code to a sequence containing up to 16 numbers and special characters.

CONSIDERATIONS

Personal Speed Dial uses a dialing code. You do not place these codes on a voice terminal button.

ADMINISTRATION

None

PROGRAMMING

This feature is not associated with a voice terminal button.

Programming a Pause, Stop, or Switchhook Flash You may need to program a pause, stop, or switchhook flash into a Personal Speed Dial sequence, or you may need to switch from rotary to Touch-Tone signals in the middle of a programmed dialing sequence. To do so, you must enter one or more of the following special characters when you program the sequence. (For more information about using special characters in a dialing sequence, see "Special Characters in Dialing Sequences.")

- To program a pause, touch Hold.
- To program a stop, touch Drop.
- To program a switchhook flash at the beginning of a number, touch Recall and then touch Hold.
- To program Touch-Tone Enable into a dialing sequence, touch Transfer.

From a BIS-10 Voice Terminal If you are using a BIS-10 voice terminal, use the following procedure to program a Personal Speed Dial sequence:

- Slide the T/P switch to P. The voice terminal rings every 5 seconds to remind you that you are programming and that you cannot place or receive calls.
- 2 Dial a Personal Speed Dial code (#01 through #24).

NOTE: Personal Speed Dial code #23 is preprogrammed for Saved Number Dial and #24 is preprogrammed for Last Number Dial. You can assign these Custom Calling features to different Personal Speed Dial codes, using a slightly modified procedure. Here's how to program Last Number Dial or Saved Number Dial onto Personal Speed Dial code #01:

- Slide the T/P switch to P.
- b Dial #01.
- c Dial \*90.
- d Dial #01 again.
- e Dial \*73 for Last Number Dial or \*74 for Saved Number Dial.
- f Slide the T/P switch to the center position.
- 3 Dial \*90 plus a telephone number or a PBX, Centrex, or Custom Calling feature code. Follow the instructions above if you need to include a special character in the dialing sequence.
- 4 Slide the T/P switch to the center position.











From a BIS-22 Voice Terminal If you are using a BIS-22 voice terminal, use the following procedure to program a Personal Speed Dial sequence:

- Slide the T/P switch to P. The voice terminal rings every 5 seconds to remind you that you are programming and that you cannot place or receive calls.
- Dial a Personal Speed Dial code (#01 through #12).
- Dial \*90 plus a telephone number or a PBX, Centrex, or Custom Calling feature code. Follow the instructions above if you need to include a special character in the dialing sequence.
- Slide the T/P switch to the center position.











#### HOW TO USE

From a BIS-10 Voice Terminal To place a call using a Personal Speed Dial code:

- Touch Speakerphone or lift the handset.
- 2 Dial a Personal Speed Dial code (#01 through #24).
- If you programmed the special character STOP in a personal speed dial sequence, after you hear the second dial tone, dial the Personal Speed Dial code again to continue the dialing.
- If the line is busy, touch Speakerphone or hang up to cancel the call.







From a BIS-22 Voice Terminal To place a call using a Personal Speed Dial code:

- Touch Speakerphone or lift the handset.
- Dial a Personal Speed Dial code (#01 through #12).
- If you programmed the special character STOP in a personal speed dial sequence, after you hear the second dial tone dial the Personal Speed Dial code again to continue the dialing.
- 4 If the line is busy, touch Speakerphone or hang up to cancel the call.







# Personalized Ringing

#### DESCRIPTION

To make it easy for the right person to pick up calls in a group office, people in this type of office may want to program their voice terminals with a ringing pattern that is easier for each person to identify. There are eight different ringing patterns available.

### CONSIDERATIONS

Once you have programmed your Personalized Ringing selection, calls that ring at your voice terminal have this ringing pattern. However, note that only the second part of the transfer ring (one short and one long ring) has your Personalized Ringing pattern.

#### ADMINISTRATION

None

#### PROGRAMMING

To choose a ringing pattern that you like:

- Slide the T/P switch to P. You hear the ringing sound your voice terminal makes.
- 2 Touch Speakerphone or Speaker. You hear another ringing pattern.
- 3 Touch Speakerphone or Speaker repeatedly until you hear a ringing pattern you like.
- 4 Slide the T/P switch to the center position.









#### HOW TO USE

After you have programmed your Personalized Ringing preference, you don't need to do anything else to use the feature. When a call rings at your voice terminal, you will hear the ringing pattern that you have chosen.

# Privacy

DESCRIPTION

If you share an outside line with other people, you may choose to program a Privacy button that allows you to control others from joining or monitoring your telephone conversations.

CONSIDERATIONS

None

None

#### PROGRAMMING

The Privacy feature requires a button with lights.

To program a Privacy button for your voice terminal:

- Label the button Privacy.
- 2 Slide the T/P switch to P. The voice terminal rings every 5 seconds to remind you that you are programming and that you cannot place or receive calls.
- 3 Touch the button you want to program.
- 4 Dial \*72.
- 5 Slide the T/P switch to the center position.







HOW TO USE

To suspend the Privacy feature:

Touch Privacy.
 The green light next to the button goes off.



To activate the Privacy feature:

If the green light next to Privacy is off, touch the button.
 The green light next to the button goes on.



# Privacy (on Lines A and E)

#### DESCRIPTION

The system administrator can administer the Privacy feature for Line A and/or Line E so that no one in the system can bridge onto or monitor these lines while a device plugged into the Aux jack is off-hook on Line A or Line E. (See "Auxiliary Lines.")

#### CONSIDERATIONS

This feature is used for a modem, facsimile machine, or other equipment connected to the line through an auxiliary (AUX) jack on the control unit.

This Privacy must be administered and therefore is a different feature than the Privacy feature that people can program for their voice terminals.

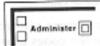
If your responsibilities do not include system administration, skip this information.

- 1 Enter administration mode by sliding the T/P switch to P and touching Administer.
- 2 Dial \*57. The green light goes on next to those lines that cannot be bridged or monitored.
- 3 If you want to change the Privacy setting of either Line A or Line E, touch the line button until the green light next to it shows the setting you want:

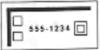
Green light on = the line is private Green light off = the line can be monitored

- 4 Touch Administer. The console beeps twice.
- 5 Leave administration mode by sliding the T/P switch to the center position.













#### PROGRAMMING

None

HOW TO USE

None

# Program

DESCRIPTION

By using the Test/Program switch and following the instructions listed below, you can program features that you have selected for your voice terminal onto available buttons.

#### CONSIDERATIONS

There are several programmable features that you can use with either a button or a dial code. Therefore, if you have a limited number of available feature buttons on your BIS-10 or BIS-22 voice terminal, you may choose to use a dial code rather than program any of those features onto your voice terminal.

If you make a mistake when programming a button, simply touch the button again and redial the programming code and all required numbers.

The system administrator can use the Program Mode Lock feature to prevent people within the system from changing programming assignments on their voice terminals. (See \*Program Mode Lock.\*)

The system administrator can program features onto individual voice terminals by using the Centralized Programming feature. (See "Centralized Programming.')

### PROGRAMMING

Individual feature programming codes are provided in programming instructions in the reference description for each programmable feature and in Section 6, "Quick Reference Guides."

#### HOW TO USE

To program a feature onto your voice terminal:

- Type or print on the button label strips all the names of the features you want to program. Then insert the labels into the appropriate slots on your voice terminal.
- Slide the T/P (Test/Program) switch on the left side of the voice terminal to the P (Program) position. The green lights next to the buttons begin flashing. The voice terminal rings every 5 seconds to remind you that you are programming and that you cannot place or receive calls.
- Consult the programming instructions in each individual feature's entry in this section or use the codes listed in Section 6, "Quick Reference Guides," of the System Manual, to determine the feature's programming code. (You can also refer to the MERLIN Plus System User's Guide for programming codes.)
- 4 Touch the first button you want to program.
- Dial the required programming code and any other numbers required.
- Touch the second button you want to program and dial the required programming code and numbers. Continue to follow this procedure for all other buttons you want to program.
- Slide the T/P switch to the center position.









# Program Mode Lock

#### DESCRIPTION

The system administrator may choose to disable (or "lock") the programming function at an individual voice terminal so that the person at the voice terminal cannot change the programmed assignments. When a voice terminal's T/P switch is locked, programming for that voice terminal can be done only at the administrator/attendant console. This feature can be administered for an individual voice terminal or for all voice terminals in the system, except the administrator/attendant console.

#### CONSIDERATIONS

To program features onto a voice terminal, the administrator can use the Centralized Programming or the Copy feature.

The T/P switch allows a person to test the voice terminal lights and ringing of the voice terminal and program features on the voice terminal. When the system administrator has locked the programming function at a particular voice terminal, the person at the voice terminal can still slide the T/P switch to both the Test and the Program positions and can use the Test option only. However, the person cannot change any programmed features at the voice terminal.

When your MERLIN Plus system comes from the factory, programming can be done by the user at his or her own voice terminal (each voice terminal's T/P switch is unlocked).

The administrator/attendant console connected to jack 10 cannot be locked out of program mode.

#### ADMINISTRATION

If your responsibilities do not include system administration, skip this information.

To lock or unlock the programming function on an individual voice terminal:

- Enter administration mode by sliding the T/P switch to P and touching Administer.
- 2 Dial \*89.
- 3 Perform one of the following procedures:
  - Touch the Auto Intercom button of the voice terminal that you are administering.

Green light on = the voice terminal is locked.

Green light off = programming can be done from the voice terminal.

If you don't have an Auto Intercom button for the voice terminal, then use the corresponding dial code from the chart below:

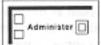
| If the intercom<br>number is: | Dial this code: | If the intercom<br>number is: | Dial this code: |
|-------------------------------|-----------------|-------------------------------|-----------------|
| Intercom 10                   | # 22            | Intercom 20                   | #03             |
| Intercom 11                   | #21             | Intercom 21                   | #04             |
| Intercom 12                   | # 20            | Intercom 22                   | #05             |
| Intercom 13                   | #19             | Intercom 23                   | #06             |
| Intercom 14                   | #18             | Intercom 24                   | # 07            |
| Intercom 15                   | W 17            | Intercom 25                   | #08             |
| Intercom 16                   | #16             | Intercom 26                   | #09             |
| Intercom 17                   | #15             | Intercom 27                   | #10             |
| Intercom 18                   | #14             | Intercom 28                   | #11             |
| Intercom 19                   | #13             | Intercom 29                   | #12             |

Touch Administer.

The console beeps twice.

Leave administration mode by sliding the T/P switch to the center position.













If you want to lock the programming function on all the voice terminals in your system (except the administrator/attendant console connected to jack 10):

- Enter administration mode by sliding the T/P switch to P and touching Administer.
- Dial \*89.
- Perform one of the following procedures according to whether you want to lock or unlock the programming function at all the voice terminals in your system:
  - Touch Conference to lock every voice terminal in your system. A green light goes on next to the Auto Intercom button corresponding to the appropriate voice terminals. The voice terminals are locked; they cannot enter programming mode.
  - Touch Drop to unlock all voice terminals in your system. A green light goes off next to the Auto Intercom button corresponding to the appropriate voice terminals. The voice terminals are unlocked; they can enter programming mode when necessary.
- 4 Touch Administer. The console beeps twice.
- 5 Leave administration mode by sliding the T/P switch to the center position.













PROGRAMMING

None

HOW TO USE

Check with your system administrator to see if you can program features at your voice terminal or if programming can be done only at the administrator/attendant console.

# Recall

DESCRIPTION

If you are on a PBX or Centrex system, you can use the Recall feature when directions tell you to include a switchhook flash.

CONSIDERATIONS

By touching the Recall button, you will get one of the following:

- A new dial tone.
- Access to Custom-calling services.

If you have PBX, Centrex, or Custom Calling features, you must touch Recall any time instructions call for a switchhook flash. By touching the Recall button, you automatically place a specially timed pause onto the line. If you press the switchhook instead, you disconnect your call.

ADMINISTRATION

None

PROGRAMMING

None

HOW TO USE

To use Recall as a switchhook flash:

Touch Recall.



# Remote Line Access

NOTE: Remote Line Access (RLA) is an ASA feature and therefore, requires the assignment of the ASA jack. If the ASA jack assignment has not yet been made, refer to "Automatic System Access" in this section before attempting to administer this feature.

DESCRIPTION

When the system is in RLA mode, you can call in from outside (for example, from your home phone) and use a password to gain access to one of the system's outside lines. You can also use RLA to change the telephone number to which calls are being forwarded during CF operation. (For more information, see "Call Forwarding" earlier in this section.) In RLA mode, the Voice Synthesis Processor (VSP) prompts callers through the procedures for entering a password and gaining access to an outside line.

#### CONSIDERATIONS

RLA operation requires the following:

- An incoming line group

When you use an RLA button to activate RLA, the system will treat as RLA calls only those calls that come in on lines specifically assigned to the RLA incoming line group. At startup, none of the outside lines are included in the RLA line group. There are simple administration procedures for changing the makeup of the RLA line group.

NOTE: If the system is in both CF/DXD and RLA modes and the lines overlap, CF/DXD takes precedence.

Passwords

To gain access to one of the system's outside lines during RLA operation, a caller must enter a valid 5-digit password when prompted to do so by the voice message. The administration procedure that follows is for assigning passwords. The first two digits of a password must be an intercom number in the system. The remaining three digits can be any three digits. Once the caller has gained access to the system, the caller's identity is verified against the password, including the intercom number, and any restrictions that apply to the caller's voice terminal apply to the current call.

A synthesized voice message

For RLA operation, the voice message is a series of voice prompts automatically supplied by the VSP in the control unit. You cannot modify or turn off the voice prompts for RLA.

Either RLA or CF/DXD buttons must be activated

To call in from a remote location, the MERLIN Plus system must be set to RLA or CF/DXD mode. Therefore, if you plan to use RLA during business off hours (weekends, evenings) be sure either the RLA or CF/DXD button is on before the office is closed.

An outward restricted user can only dial numbers that are present in an allowed list.

#### ADMINISTRATION

If your responsibilities do not include system administration, skip this information.

### RLA Line Groups

At startup, none of the system's outside lines are assigned to the RLA line group. To use this feature, you will need to assign line group(s) as follows:

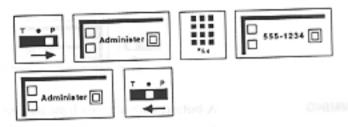
1 Enter administration mode by sliding the T/P switch to P and touching Administer.

2 Dial \*54 for the incoming line group.

The green lights go on next to the buttons for the lines currently assigned to the list.

Green light on = line is assigned to the group Green light off = line is not assigned to the group

- 3 Touch line buttons until the green lights show the makeup you want for the line group.
- 4 Touch Administer. The console beeps twice.
- 5 Leave administration mode by sliding the T/P switch to the center position.

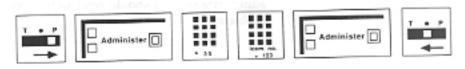


#### **Passwords**

You and others in your business must enter a password to use RLA. The password is 5-digits and must be entered in order to gain access to an outside line using RLA or to change the current call forward number from a remote location. The first two numbers in the password are the caller's intercom number.

To create or invalidate a password, follow this procedure:

- Enter administration mode by sliding the T/P switch to P and touching Administer.
- 2 Dial \*56.
- 3 To create a password for a particular intercom number, dial a MERLIN Plus system intercom number plus any three digits (except 000). The console beeps twice.
- 4 To invalidate any password beginning with a particular intercom number, dial the intercom number plus 000. Repeat the procedure for more passwords. The console beeps twice.
- Touch Administer.
   The console beeps twice.
- 6 Leave administration mode by sliding the T/P switch to the center position.



### Number of Rings

To change the number of rings (the default is two rings) before the RLA call is

- Slide the T/P switch to P and touch Administer.
- Dial \*763 plus the number of rings (between 0 and 9) before the RLA feature picks up the call.

NOTE: If the number of rings is set to 0, the voice terminal will not ring, and the calls will be immediately answered.

- Touch Administer. The console beeps twice.
- Leave administration mode by sliding the T/P switch to the center position.













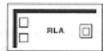
#### PROGRAMMING

A button with a green light next to it is recommended for the RLA feature.

To program an RLA button on a voice terminal:

- Label the button RLA.
- 2 Slide the T/P switch to P. The voice terminal rings every 5 seconds to remind you that you're programming and can't receive or place calls.
- Touch the button you want to program.
- Dial \*84.
- Slide the T/P switch to the center position.









#### HOW TO USE

### Using the RLA Button

Touching the RLA button toggles the system back and forth between the normal mode and the RLA mode. You can tell which mode you are in by the status of the green light next to the RLA button.

> Green light on = RLA mode Green light off = Normal mode Green light flashing = Problem with RLA

If the green light next to the RLA button is flashing, notify the system administrator who should refer to Section 7, "Troubleshooting," to correct the problem.

# Gaining Access to a Line using RLA

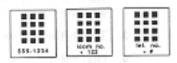
If the system is in RLA mode, you can gain access to a line in the RLA outgoing line group from a remote location by following this procedure:

NOTE: If you will be using this feature, ask your system administrator for the handy MERLIN Plus CF/RLA Card that provides instructions for RLA.

- 1 Dial the telephone number of a line in the RLA incoming line group.
- 2 When the call is answered, the VSP begins prompting you through the procedure in which the following information is called for:

NOTE: The system verifies each response, such as the correct password or unrestricted lines or telephone numbers. If the response is incorrect or not allowed, the system requests the caller to respond again.

- Enter the 5-digit password (the first two digits are a valid intercom number).
- Enter the telephone number you want to reach plus a #.
- 3 When you have finished responding to the voice prompts, you will hear normal call-progress tones (ringing, busy signal, fast busy signal, etc.).
- 4 Complete your call as usual.



If the system is in either CF or DXD mode, you can gain access to a line in the RLA outgoing line group from a remote location by following this procedure.

- Depending on the mode the system is in, dial the telephone number for a line in either the CF or the DXD incoming line group. When the call is answered, the VSP gives the appropriate message.
- 2 As soon as the message ends, dial \* # \*. The VSP begins prompting you through the RLA procedure.
- 3 Respond appropriately to the voice prompts until you hear normal callprogress tones (ringing, busy signal, fast busy signal, etc.).
- 4 Complete your call as usual.



# Ring Override

#### DESCRIPTION

Sometimes you may want all of your calls to ring immediately, even if you have programmed the lines on your voice terminal to ring after a delay or not at all. (See "Ringing Options.") For instance, you may need to cover calls for someone who shares one of your lines. You can use a Ring Override button to temporarily override the ringing option you have established.

#### CONSIDERATIONS

#### ADMINISTRATION

None

#### PROGRAMMING

A button with lights is recommended but not required.

To program a Ring Override button for your voice terminal:

- Label the button Ring Override.
- Slide the T/P switch to P. The voice terminal rings every 5 seconds to remind you that you are programming and that you cannot place or receive calls.
- Touch the button you want to program.
- Dial \*78.
- Slide the T/P switch to the center position.



#### HOW TO USE

To have all your calls ring immediately at your voice terminal:

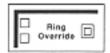
Touch Ring Override.

If you have programmed this feature on a button with lights, the green light goes on.



To return to your programmed line ringing:

 Touch Ring Override again. The green light goes off.



# Ringing Line Preference

DESCRIPTION

When you receive an outside call, the MERLIN Plus system automatically connects you to the ringing line.

CONSIDERATIONS

If you want to place an outside call while one of the lines on your voice terminal is ringing or in use, touch the line button of the line you want to use. When you touch Speakerphone or lift the handset, the MERLIN Plus system connects you to the line you have selected.

ADMINISTRATION

None

PROGRAMMING

None

HOW TO USE

When you receive an outside call:

Touch Speakerphone or lift your handset. The MERLIN Plus system connects you to the ringing line.



# Ringing Options

#### DESCRIPTION

You can designate incoming calls to ring immediately at your voice terminal, ring at a second voice terminal if they are not answered at the first one after two rings (delayed ring), or not ring at all. When your system is installed, the lines at each voice terminal ring immediately when a call comes in on them. However, you can change this so that people in your office can answer calls at their desk for someone who is away or you can program phones in public places not to ring.

#### CONSIDERATIONS

The following tips are useful for deciding how and when voice terminals in your MERLIN Plus system should ring.

Immediate Ring: People responsible for answering incoming calls, such as the system attendant, should have the lines on their voice terminals programmed for immediate ring. You can also use this option for private lines that don't need to be screened or for people who answer their own calls.

Delayed Ring: You can provide backup coverage on a shared line by having that line ring at a second voice terminal only after it has rung a few times somewhere else. Then, when calls come in for a person who is away from his or her desk, that person's calls will ring at a second voice terminal, the

voice terminal belonging to a backup person. Delayed ring is often useful for a secretary who can pick up calls for someone on a personal line.

No Ring: People who do not normally answer incoming calls should have their lines programmed for no ring. You may also prefer to program telephones in public places, such as lobbies or conference rooms, not to ring. A line programmed for no ring does not ring on outside calls, but does ring for transferred and intercom calls. Even though the phones don't ring, they still can pickup lines that appear on the voice terminal.

If you decide that you want a line that you have programmed for delayed ring or no ring to temporarily ring immediately, program the Ring Override feature. (See "Ring Override.")

### ADMINISTRATION

#### None

### PROGRAMMING

To program the line ringing option you prefer:

- Slide the T/P switch to P.
- Touch the line button for which you want to program immediate, delayed, or no ringing.
- Dial one of these codes for the type of ringing you want the line to have:
  - Dial \*35 for no ring. The red light next to the line button goes off.
  - Dial \*36 for delayed ring. The red light next to the line button flashes.
  - Dial \*37 for immediate ring. The red light next to the line button goes on steady.
- Repeat steps 2 and 3 for each line button you want to program.
- When you are finished programming, slide the T/P switch to the center position.



#### HOW TO USE

Even if you program the lines on your voice terminal not to ring, you can tell if a call comes in for you because the green light next to the line button still flashes. To answer the call:

- Touch the line button next to the flashing green light.
- Touch Speakerphone or lift your handset.



# Saved Number Dial

### DESCRIPTION

If you have programmed a Saved Number Dial button, you can use the button to save an important number for one-touch dialing at a later time. If the number you call is busy or no one answers, or if you need to call the person back, you can save that number by touching Saved Number before you hang up. Later, when you touch Saved Number again, your voice terminal automatically redials the number you have saved.

### CONSIDERATIONS

You can program more than one Saved Number Dial button for your voice terminal, so that, if necessary, you can save different calls during the day. Be sure to write on a separate sheet of paper the identity of each person called and/or telephone number for each Saved Number button.

You may prefer to use a dial code rather than program a button in order to use the Saved Number Dial feature.

A Saved Number Dial button saves both manually dialed numbers and numbers dialed with an Outside Auto Dial button, and numbers saved on a Last Number Dial button.

#### ADMINISTRATION

None

#### PROGRAMMING

To program a Saved Number Dial button for your voice terminal:

- Label the button Saved Number.
- Slide the T/P switch to P. The voice terminal rings every 5 seconds to remind you that you are programming and that you cannot place or receive calls.
- Touch the button you want to program.
- Dial \*74 (you do not need to dial an outside number).
- Slide the T/P switch to the center position.









# HOW TO USE

You can use a programmed button or a dial code to access this feature.

To save a number for redialing:

Before you touch Speakerphone or hang up your handset from a call in progress, touch Saved Number or dial #23, if you haven't already programmed this personal speed dial code.

Touch Speakerphone or hang up your handset.



The MERLIN Plus system saves this number until you repeat this procedure to save another number.

To redial this number later:

- 1 Without touching Speakerphone or lifting your handset, repeat the first step you used to save the number. So if you touched Saved Number, touch it again or if you dialed #23, dial it again. Your voice terminal speaker goes on, and you hear dialing.
- When you hear the other person answer, touch Speakerphone or lift your handset and begin talking.



If the line is busy, or if no one answers:

Touch Speakerphone, or hang up to cancel the call.



# Send Message

#### DESCRIPTION

The system attendant can turn on the Message light at the voice terminals of people in the MERLIN Plus system in order to alert them that they have a message. (See "Message.")

#### CONSIDERATIONS

The Message light at voice terminals in the system can only be turned on at the attendant/administrator voice terminal. The alternate attendant position cannot turn on the message light.

If your administrator/attendant console is a BIS-22 with more than ten voice terminals on the system, the attendant can still use the Send Message feature by following the directions below. However, he or she will not know if the light is already on at the voice terminal.

If you've programmed Personal Speed Dial numbers, such as LND or SND, onto Auto Intercom buttons, then you cannot use those buttons with the Send Message feature.

5-Button voice terminals do not have a Message button.

ADMINISTRATION

None

PROGRAMMING

None

HOW TO USE

From a BIS-34 Console If you are using a BIS-34 console, use the following procedure to turn on the message light at a voice terminal:

- At the administrator/attendant voice terminal, touch Send Message.
- 2 Touch the Auto Intercom button for the person's voice terminal. The red light next to the Auto Intercom button goes on, indicating the person's Message light is on.

NOTE: To turn off the light, repeat the steps.



From a BIS-22 Console If you are using a BIS-22 console, use one of the following procedures to turn on the message light at a voice terminal:

- At the administrator/attendant console, touch Send Message.
- 2 Follow one of these procedures:
  - Touch an Auto Intercom button that the attendant has programmed for the person.
  - Dial a 3-character code corresponding to the Send Message button code on the following chart.

NOTE: To turn off the light, repeat the steps used to turn it on.



From a BIS-10 Console If you are using a BIS-10 console, use the following procedure to turn on the message light at a voice terminal:

At the administrator/attendant console, touch Send Message.

Dial a 3-character code corresponding to the Send Message dial code on the following chart.

| If the intercom<br>number is: | Dial this Send<br>Message dial<br>code: | If the intercom<br>number is: | Dial this Send<br>Message dial<br>code: |
|-------------------------------|---|-------------------------------|---|
| Intercom 10                   | 910-110-#22                             | Intercom 20                   | #03                                     |
| Intercom 11                   | N 21                                    | Intercom 21                   | #04                                     |
| Intercom 12                   | #20                                     | Intercom 22                   | #05                                     |
| Intercom 13                   | #19                                     | Intercom 23                   | #06                                     |
| Intercom 14                   | #18                                     | Intercom 24                   | N 07                                    |
| Intercom 15                   | #17                                     | Intercom 25                   | #08                                     |
| Intercom 16                   | #16                                     | Intercom 26                   | #09                                     |
| Intercom 17                   | #15                                     | Intercom 27                   | #10                                     |
| Intercom 18                   | #14                                     | Intercom 28                   | #11                                     |
| Intercom 19                   | #13                                     | Intercom 29                   | #12                                     |

For example, the attendant may want to turn on the Message light at Intercom 21, but does not have an Auto Intercom button for that person. The attendant refers to the chart above and finds that the Send Message dial code is #04. Then from a BIS-22 console the attendant touches Send Message and dials #04 to light the message light.

> NOTE: To turn off a message light at a voice terminal, repeat the steps above.





# Speaker

#### DESCRIPTION

If your voice terminal does not have a speakerphone button, you can use your voice terminal speaker when you have dialed a call or been put on hold to monitor a line without lifting your handset. You can also allow others in your office to hear a conversation while you have a call in progress. There are three main ways to use your speaker:

- On-Hook Dialing-Without lifting your handset, turn on the voice terminal speaker and dial an outside or intercom number. (You can also use the one-touch dialing features for this purpose. See "One-Touch Dialing.\*)
- Monitor-on-Hold—If someone puts you on hold, you can turn on your voice terminal speaker, hang up, and continue working until the person returns to the call.
- Group Listening—By turning on your voice terminal speaker during a telephone conversation, you can allow others in your office to hear a call. This feature is not available on the BIS models.

#### CONSIDERATIONS

When you touch an Outside Auto Dial button or an Auto Intercom button, your voice terminal speaker automatically goes on and you hear dialing.

When you use the Group Listening feature, your speaker may make a squealing noise when the handset comes close to it. To prevent this, touch Speaker when you have completed a call and are ready to hang up your handset. Another way to reduce the squealing sound is to turn down the volume control on your voice terminal. This feature is not available on the BIS-10, BIS-22, BIS-34, or BIS-34D

ADMINISTRATION

None

PROGRAMMING

None

HOW TO USE

To use On-Hook Dialing:

- 1 Without lifting your handset, touch Speaker.
- 2 Dial the number.
- 3 When you hear the other person answer, lift your handset to speak.









If the line is busy, or if you get no answer:

Touch Speaker to cancel the call.



To use Monitor-on-Hold:

- 1 When you have been put on hold, touch Speaker.
- 2 Hang up.
- 3 When you hear the other person return to the call, lift your handset and continue the call.







To use Group Listening:

1 Without hanging up, touch Speaker, and continue your conversation.



# Special Characters in Dialing Sequences

#### DESCRIPTION

You may need to program a pause, stop, or switchhook flash into an Outside Auto Dial, a Personal Speed Dial, a Disallowed List, or a System Speed Dial sequence, or you may need to switch from rotary to Touch-Tone signals in the middle of a programmed dialing sequence. To do so, you must enter one or more special characters when you program the sequence.

#### CONSIDERATIONS

The switchhook flash can be used only at the beginning of a programmed dialing sequence. Your MERLIN Plus system may work behind a PBX or a Centrex system, or you may use Custom Calling features. If so, use the PBX, Centrex, or Custom Calling features exactly as their instructions describe. However, there are two important exceptions:

- Any PBX, Centrex, or Custom Calling feature code that begins with a "#" must be preceded by another "#" in order to operate in the MERLIN Plus system. For example, if PBX, Centrex, or Custom Calling instructions tell you to dial #1234, you must actually dial # #1234. For your convenience, you may want to program a # # button, if you need to follow this procedure frequently.
- When PBX, Centrex, or Custom Calling instructions tell you to include a switchhook flash, you must touch Recall instead. If you touch the switchhook, you'll disconnect the call.

#### ADMINISTRATION

None

#### PROGRAMMING

Use the following procedures to enter special characters into a dialing sequence.

#### Pause

Program a pause (1.5 seconds) into a dialing sequence. For example, you may need a pause between an access code, such as a 9, and an outside telephone number in an Outside Auto Dial sequence.

- Dial the access code, such as a 9.
- Touch Hold (Pause).
- Dial the outside telephone number.







#### Stop

Program a stop into a dialing sequence to wait for a second dial tone. For example, you may need to program a stop between a local telephone number and an alternate long distance authorization code.

Dial the local telephone number (seven digits).

- Touch Drop (Stop).
- 3 Dial the authorization code (five or six digits).



### Switchhook Flash

Program a switchhook flash at the beginning of a dialing sequence. For example, you may need to program a button with a PBX, Centrex, or Custom Calling feature code that calls for a switchhook flash.

- 1 Touch Recall.
- 2 Touch Hold (Pause).
- 3 Dial the PBX or Centrex dial code sequence that gives you access to the feature you want to program.



#### Touch-Tone Enable

Program Touch-Tone Enable into a dialing sequence on a line with rotary signal. For example, you may need to use a credit card authorization service.

- 1 Touch Transfer.
- 2 Dial the credit card authorization code.



HOW TO USE

If your MERLIN Plus system works behind a PBX or a Centrex system, or you are using the Custom Calling features, follow these directions:

1 When PBX, Centrex, or Custom Calling feature instructions tell you to dial a "#," dial a second "#." For example, if the instructions tell you to dial #4567, you must actually dial ##4567 in order to use the feature with the MERLIN Plus system.

If your PBX, Centrex, or Custom Calling feature instructions tell you to use a stop, touch **Drop** instead and for a switchhook flash, touch **Recall** instead.

# System Answer (SA)

#### DESCRIPTION

NOTE: System Answer is an ASA feature and therefore, requires the assignment of the ASA jack. If the ASA jack assignment has not yet been made, refer to "Automatic System Access" in this section before attempting to administer this feature.

When a call comes in, you can set the System Answer (SA) feature to automatically answer the call and place it on hold, or provide a brief message before placing the call on hold. If a compatible audio-source (tape player, radio, or stereo) is plugged into the Music-On-Hold jack (see "Music-On-Hold" under "Accessory Equipment" in this section), you have the option of playing a pre-recorded message about your business (hours of operation, special promotions, numbers to call, etc.), or allowing callers to hear music once the call is placed on hold. To answer the held call, touch the line button.

### CONSIDERATIONS

This feature can be activated from either the attendant or the alternate attendant console, but not both. If an alternate attendant position has been assigned, SA can be activated only from that console. If no alternate attendant position has been assigned, SA can be activated only from the attendant console.

This feature can also be activated while a call is ringing. That call will be answered immediately and subsequent calls will automatically be answered after the administered number of rings. When the system is first set up, up to eight lines can be answered by SA and the caller will hear two rings before the SA message.

When administering an alternate attendant position, this feature must be turned off.

This feature cannot be copied using the Copy administration procedure. If copying is attempted, the receiving voice terminal will have an empty button in the corresponding position.

If a call is ringing on a line that does not appear on the attendant or alternate attendant's console, touching SA will not answer the call.

#### ADMINISTRATION

Follow the administration procedure under "Automatic System Access" in this section, for ASA jack assignments. If your responsibilities do not include administration, skip this information.

#### SA Line Groups

To add lines that can be answered by SA:

- Enter administration mode by sliding T/P to P and touching Administer.
- Dial \*75.
- Touch the incoming line button that you are adding to or removing from the feature.

Green light on  $\equiv$  line can be answered by SA Green light off = line cannot be answered by SA Touch Administer.

The console beeps twice.

Leave administration mode by sliding the T/P switch to the center position.



#### Number of Rings

To change the number of rings (the default is two rings) before SA answers a call:

- Slide the T/P switch to P and touch Administer.
- Dial \*764 plus the number of rings (between 0 and 9) before the SA feature picks up the call.

NOTE: If the number of rings is set to 0, the voice terminal will not ring, and the calls will be immediately answered by SA.

- Touch Administer. The console beeps twice.
- Leave administration mode by sliding the T/P switch to the center position.



#### Voice Message

To select a message to be played to the caller for lines answered by SA:

- Enter administration mode by sliding T/P to P and touching Administer.
- Dial \*77 followed by the option desired. (Message 2 is the default):
  - No voice message; call is immediately placed on hold Message says, "Please hold."

  - Message says, "Please hold, your call will be handled momentarily."

NOTE: If a line number is administered using \*50, this message precedes message 1 and 2: "You have reached . . . . " where . . . is a number entered by the system administrator in "Call Forwarding."

- 3 Touch Administer. The console beeps twice.
- 4 Leave administration mode by sliding the T/P switch to the center position.



#### PROGRAMMING

To program a System Answer button on a voice terminal:

NOTE: Only the attendant or the alternate attendant can have a System Answer button. The voice terminal does not have to be at Intercom #10.

- Label the button "System Answer."
- 2 Slide the T/P switch to P. The voice terminal rings every 5 seconds to remind you that you are programming and that you cannot place or receive calls.
- 3 Touch System Answer.
- 4 Dial the three-digit code \*58.
- 5 Slide the T/P switch to the center position.



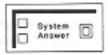
#### HOW TO USE

To activate the System Answer feature:

Touch System Answer.

Green light on = SA on
Green light off = SA off
Green light flashing = Problem with SA.

If the green SA light is flashing, report the problem to the system administrator who should refer to Section 7, "Troubleshooting," to correct the problem.



# System Feature Report (SFR)

NOTE: This feature is used with a MERLIN Plus system data collector and an AT&T 475 printer or its equivalent.

#### DESCRIPTION

If the system administrator needs to verify the features administered to the system or needs a written copy of the lines and features on each voice terminal, he or she can use the data collector and the printer to print a System Feature Report. This report lists both systemwide features and programmed features and lines on individual voice terminals.

The system features that can be printed on the System Feature Report are:

- Disallowed List assignments for each voice terminal.
- Allowed List assignments for each voice terminal
- Transfer Return Interval
- Call Report settings, such as the minimum call duration of a call for which the Call Report feature will print information

- System Speed Dial numbers
- Automatic System Access (ASA) administration

The voice terminal features that can be printed on the System Feature Report

- The intercom number of the voice terminal
- The voice terminal model type
- Optional accessories used with the voice terminal
- Voice Announcement Enable/Disable
- Automatic Line Selection sequences
- The lines and features assigned to all buttons on the voice terminal

Figure 5-3 shows a printout of a typical SFR.

### CONSIDERATIONS

The System Feature Report feature can be accessed only from the administrator/attendant console.

If the system administrator wants to have the date and time on the System Feature Report, the administrator can set these options on the control unit when he or she administers the date and time for the Call Report feature. (See "Call Report.")

The system administrator can connect the data collector and the printer to any voice terminal jack in the system, except jack 10. However, if the printer and data collector have already been assigned to a voice terminal jack for the Call Report feature, usually jack 19, it is best to use the same jack assignment for the System Feature Report.

```
FIGURE 5-3 A printout of a typical System Feature Report.
                                                            SUTTON ACCOUNT ORANGO OF THEIR
                                                                                                 Dute: 14-01 10 Type: 05:55:45
                                      A RESERVINGENCE FRATURES.
                                                                                           ma61.00 ++14
                                       A 1. MUSIC-ON-MOLD MOLUME 15:
                                                                                           HED15H 4409-
                                         2. BACKGROUND HUSSE POLICE 15: ..
                                       A D. TROUGER PRIMER -- 2-- 4 cange
                                         4. LONG DISTANCE DIALING: TOLK PREFIT . +Date
                                         5. Ding $100005: TOUCH TOUR --58-
                                         S. CALL REPORT HUNDRED CALL DURATION CARSON. I HUNDRES IN SECONDS.
                                         T. THRE OF CALLS REPORTED (+04): NO CALL PERCET (0)
                                       A AUTO SYSTEM ACCESS MISSO FEATURES!
                                       A 1. CALL FORMED APPOUNCEMENT MESSAGE OPTION IS <-2011 ON
                                       A 2. CALL FORMASS TELEPHONE NUMBER 15 (+53): 12125551090
                                       A 5, MINOTE LINE ACCESS PASSAGRES ARE (*55):

- 10200 11999 12000 12000 14000 15000 14010 17000 12000 19000

- 20000 21000 22000 23000 24000 25000 24000 27000 20000 27000
                                       A ALLONEO LIST (*0) - +085;
A EXTEN last, -most in tiet?
A Exten last, -most in tiet?
A Extension are printed for each list following the station list?
                                                 (CON NUMBER)
                                                   18 15 28 25
X<sub>1-1</sub>X | NOSCE | NOSCE | 1.3000
212974
```

NOTE: If you are using the same printer and data collector for both features and change the voice terminal jack assignment, you must administer the new jack assignment for both features.

You cannot use the same jack that you used for ASA but you can use the same jack that you used for BB, by using the 450F adapter and cord supplied with the data collector. If necessary, you can change the jack assignments for BB and ASA.

The report for each voice terminal shows all voice terminals as having 34buttons. This allows flexibility for upgrading and changing voice terminals.

#### ADMINISTRATION

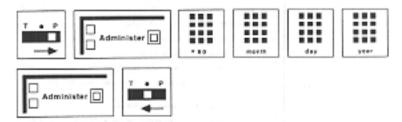
If your responsibilities do not include system administration, skip this information.

To set the date and the time, to assign a voice terminal jack for the System Feature Report, and to print or to cancel a report, use the following procedures.

The Date and the Time. (If you have already set the date and time for the Call Report feature, you don't have to do it again.)

To set today's date:

- Enter administration mode by sliding the T/P switch to P and touching Administer.
- 2 Dial \*80.
- 3 Dial two digits for the month (01 through 12).
- 4 Dial two digits for the day (01 through 31).
- 5 Dial two digits for the year (00 through 99).
  For example, if the date is May 16, 1986, dial \*80 05 16 86.
- Touch Administer.
   The console beeps twice.
- 7 Leave administration mode by sliding the T/P switch to the center position.



To set the current time:

- Enter administration mode by sliding the T/P switch to P and touching Administer.
- 2 Dial \*81.
- 3 Dial two digits for the hour (00 through 23).
- 4 Dial two digits for the minute (00 through 59).

For example, if the time is 3:25 A.M., dial \*81 03 25; if the time is 3:25 P.M., dial \*81 15 25.

- Touch Administer.
  - The console beeps twice.
- Leave administration mode by sliding the T/P switch to the center position.













Control Unit Jack Assignment for the System Feature Report. To assign a voice terminal jack on the control unit for the System Feature Report:

> NOTE: The system is factory-set to have the data collector and printer connected to voice terminal jack 19 for the System Feature Report feature.

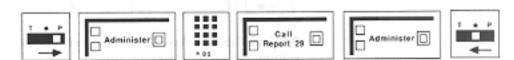
- Enter administration mode by sliding the T/P switch to P and touching Administer.
- Dial \*85. 2
- Touch the Auto Intercom button or dial the intercom number of the jack to which the data collector and the printer will be connected for the Call Report feature.

The green light next to the current jack assignment goes off; the green light next to the Auto Intercom button for the jack to which the data collector and the printer will be connected goes on.

Touch Administer. The console beeps twice.

position.

Leave administration mode by sliding the T/P switch to the center



Complete System Report. To print out a system administration report and a report for every voice terminal in your system:

- Enter administration mode by sliding the T/P switch to P and touching Administer.
- Dial \*60. The printer prints the reports as it receives the data from the system.
- 3 Touch Administer. The console beeps troice.
- 4 Leave administration mode by sliding the T/P switch to the center position.



System Administration Report. To print out a system administration report only:

1 Enter administration mode by sliding the T/P switch to P and touching Administer.

- 2 Dial \*61.
  The printer prints the report as it receives data from the system.
- Touch Administer.
   The console beeps twice.
- 4 Leave administration mode by sliding the T/P switch to the center position.



Individual Voice Terminal Reports. To print out individual reports on one or more voice terminals:

- Enter administration mode by sliding the T/P switch to P and touching Administer.
- 2 Dial \*62.
- 3 Touch the Auto Intercom button(s) or dial the intercom number(s) of the voice terminal(s) for which you want a report.
  The printer prints the report as it receives data from the system.
- Touch Administer.
   The console beeps twice.
- 5 Leave administration mode by sliding the T/P switch to the center position.



Printout Cancellation. To cancel a printout in progress and to delete all waiting report requests:

- Enter administration mode by sliding the T/P switch to P and touching Administer.
- Dial \*63.
   The printer stops printing.
- Touch Administer.
   The console beeps twice.
- 4 Leave administration mode by sliding the T/P switch to the center position.



PROGRAMMING

None

# System Reset

WARNING: This feature is intended for service personnel only.

### DESCRIPTION

When the service prson or the administrator uses System Reset, the entire MERLIN Plus system is set to the initial feature assignments, and consequently erases any system administration, such as System Speed Dial numbers or call restrictions. It is useful when making radical changes to the system or starting administration over again.

# CONSIDERATIONS

When the the service person on the administrator resets the system, all programming done for any voice terminal in the MERLIN Plus system is erased. If the administrator has administered customized line assignments for any voice terminal, these are erased also, and the line configuration is returned to square operation. All administered features are erased.

### ADMINISTRATION

System Reset requires readministering your system and reprogramming all voice terminals.

To reset your system to the initial feature assignments:

- Enter administration mode by sliding the T/P switch to P and touching Administer.
- 2 Dial \*99198. The console beeps twice.

NOTE: If the console beeps only once or not at all, the reset didn't work, probably because someone was using the system when you dialed the System Reset code. Wait until no one is using the system, and try the reset again.

3 Go to the control unit and turn off the power for ten seconds, then turn it

The red lights go on, and the green lights flash. The console rings every 5 seconds.

- 4 Touch Administer. The console beeps twice.
- 5 Leave administration mode by sliding the T/P switch to the center position.











Administer 🔲

PROGRAMMING

None

HOW TO USE

This feature is recommended for service personnel only.

# System Speed Dial

# DESCRIPTION

The administrator can store System Speed Dial codes for telephone numbers, such as a warehouse number or a branch office number, and account numbers that people in the office frequently use. People can then dial the number simply by dialing the proper Speed Dial code. Your MERLIN Plus system can store up to 130 System Speed Dial numbers. System Speed Dial is particularly useful when the administrator wants to give users access to a specific number, for instance, an authorization code for an alternate long-distance service, but does not want to divulge the number.

For more information about assigning a System Speed Dial code to account numbers that the administrator wants to appear on call reports, see "Account Number Entry."

#### CONSIDERATIONS

You can program a System Speed Dial code for an area code and an exchange. Then when you want to dial a telephone number that begins with this area code and exchange, you can dial the Speed Dial code or touch the button programmed for the Speed Dial code, and then dial the remainder of the telephone number or use another Speed Dial code. The MERLIN Plus system can hold a maximum of 130 System Speed Dial codes of up to 16 digits each.

The system administrator can assign System Speed Dial codes to telephone numbers with or without Restriction Override.

- If the administrator decides to store a System Speed Dial code with Restriction Override, all voice terminals in the system can use the code as a type of password that allows the person to access the outside number, regardless of Disallowed List, toll or outward call restrictions previously placed on the voice terminal.
- The administrator may decide to store a System Speed Dial code without Restriction Override so that the Disallowed List, and all toll or outward restrictions placed on voice terminals continue to apply.

For System Speed Dial codes assigned to telephone numbers, the administrator can specify which Speed Dial codes will be printed on call reports (see "Call Report"), which codes will be displayed on display sets, and which ones will be private.

It is sometimes necessary to include a pause, stop, or switchhook flash, or to switch from rotary to Touch-Tone signals within a dialing sequence. To do so, the administrator must enter one or more of the following special characters into the dialing sequence. However, if you do use the special characters in the dialing sequence, you cannot use Recall to retry the number for you.

- · To program a pause, touch Hold.
- To program a stop, touch Drop.
- To program Touch-Tone Enable, touch Transfer.
- To program a switchhook flash at the beginning of a dialing sequence, touch Recall and then touch Hold.

NOTE: If the first digit of a System Speed Dial number is the special character Recall, follow it by a pause (also a special character) when programming the dial sequence. If you need to use Recall in other than the first digit of the dialing sequence of a System Speed Dial number, you cannot use the Speed Dial feature.

(For more information about using special characters in a dialing sequence, including PBX, Centrex, and Custom Calling features, see "Special Characters.")

If a number to which the administrator assigns a System Speed Dial code contains a "#" character, the character must be entered twice (For example, 9 # # 123). A single " #" character ends administration of the current Speed Dial code.

When the administrator has dialed the maximum 16 characters for a System Speed Dial code, the system beeps twice to confirm the entry and to remind the administrator that he or she cannot dial any more characters. If the administrator dials less than 16 characters, the system does not beep.

The administrator should give a copy of the System Speed Dial code assignments to each person who will be using these codes.

People can dial the codes or program a button for specific Speed Dial codes.

#### ADMINISTRATION

If your responsibilities do not include system administration, skip this information.

Before you administer the System Speed Dial feature, refer to the System Speed Dial Form that you have filled out. .

To assign System Speed Dial codes to frequently dialed telephone numbers:

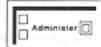
- 1 Enter administration mode by sliding the T/P switch to P and touching Administer.
- 2 Dial the code (#60 through #89 or #900 through #999) that you are assigning to the telephone number.
- 3 Dial one of the following codes:
  - Dial \*90 to assign the Speed Dial code (without Restriction Override). For example, if you want the Speed Dial number to have the same restrictions as the actual telephone number, that is, call or toll restrictions still apply with this number, dial the System Speed Dial code (such as #67 or #936), \*90, and then the telephone number.
  - Dial \*92 to assign the Speed Dial code with Restriction Override.
    For example, if you want to assign a System Speed Dial code to a telephone number that anyone in the system can dial, regardless of any previously placed restrictions, dial the System Speed Dial code (such as #67 or #936), \*92, and then the telephone number.

Dial the telephone number. (If you want the number to be private so that only the dial code appears on Call Reports and on display voice terminals, insert a \* before the telephone number. However, private numbers do appear on System Feature Reports.)

For example, for a private number with Restriction Override, dial a System Speed Dial code (such as #67 or #936), \*92, and a telephone number with a \* before it, such as \*1-617-555-1234.

- Touch Administer. The console beeps twice.
- 6 Repeat the last four steps for each telephone number to which you are assigning a System Speed Dial code.
- Leave administration mode by sliding the T/P switch to the center position.













#### PROGRAMMING

To program a button for a System Speed Dial code assigned to a telephone number:

- Label the button with a name and/or a number.
- Slide the T/P switch to P. The voice terminal rings every 5 seconds to remind you that you are programming and that you cannot place or receive calls.
- Touch the button you want to program.
- Dial \*95 plus a System Speed Dial code number from 60 through 89 and 900 through 999 that your administrator can give you.
- Slide the T/P switch to the center position.











#### HOW TO USE

In order to use the System Speed Dial feature, you can use a Speed Dial code or touch a programmed button.

To place a call by dialing a System Speed Dial code:

- Touch Speakerphone or lift your handset.
- 2 Dial a System Speed Dial code (#60 through #89 or #900 through #999).





To place a call using a button programmed for a specific System Speed Dial

Touch Speakerphone or lift your handset.

- 2 Touch the System Speed Dial button for the particular code.
- 3 If the special character STOP is included in a system speed dial number, after you hear the second dial tone, dial the System Speed Dial code again to continue the dialing.





# Test

### DESCRIPTION

When you need to test the lights and the ringing on your voice terminal, or if you need to verify that your voice terminal has been installed correctly, you can use the Test/Program (T/P) switch on the left side of your voice terminal.

#### CONSIDERATIONS

If your system administrator has administered the Program Mode Lock feature for your voice terminal, you cannot use the T/P switch for changing programmed features at the voice terminal. However, you can still use the T/P switch for testing voice terminal lights and ringing.

#### ADMINISTRATION

None

#### PROGRAMMING

None

# HOW TO USE

To test the lights and ringing on your voice terminal:

- Slide the T/P switch to T. On some voice terminal models you must hold the switch in that position until you are finished testing your voice terminal.
  - The red and green lights next to your voice terminal buttons flash alternately, and your voice terminal rings.
- Slide the T/P switch to the center position.

If your voice terminal does not respond when you slide the Test/Program switch to T, check Section 7, "Troubleshooting the System," for possible causes and recommended action.





# **Toll Prefix Setting**

#### DESCRIPTION

In most telephone systems people must dial a toll prefix (a 1 or a 0) before they dial an area code and telephone number. When the MERLIN Plus system is installed, it is set for dialing a toll prefix. If people in your system don't need to dial a toll prefix, the system administrator must set the system for dialing the area code only.

#### CONSIDERATIONS

None

#### ADMINISTRATION

If your responsibilities do not include system administration, skip this information. To administer the system so people can dial an area code and telephone number without a toll prefix:

- Enter administration mode by sliding the T/P switch to P and touching Administer.
- 2 Dial \*37.
- Touch Administer.
   The console beeps twice.
- Leave administration mode by sliding the T/P switch to the center position.



To change the system setting so that people must dial a toll prefix before an area code and a telephone number:

- Enter administration mode by sliding the T/P switch to P and touching Administer.
- 2 Dial \*36.
- Touch Administer.
   The console beeps twice.
- 4 Leave administration mode by sliding the T/P switch to the center position.



#### PROGRAMMING

None

### HOW TO USE

Ask your administrator whether you need to dial a toll prefix ( a 1 or a 0) before you dial an area code and a telephone number.

### Tones

#### DESCRIPTION

Your MERLIN Plus system and your voice terminal provide the following tones to inform you of the progress of a call you are placing or are about to place. There are also tones that let you know you are in administration or programming mode and a tone to tell you that your voice terminal is working satisfactorily.

| Feedback                | Sound   | Meaning of the Feedback  |  |
|-------------------------|---|--|--|
| Dial tone               | Steady tone   | You can begin dialing when you are ready.  |  |
| Busy tone               | A slow pulsed tone  | The line is busy.  |  |
| Voice signal<br>tone    | A beep a wented   | You can announce the call<br>through the other person's<br>voice terminal speaker. |  |
| Dialing<br>feedback     | For Touch-Tone lines a series of tones  | You have dialed another digit of the telephone number.                             |  |
|                         | For rotary lines a series of rotary pulses  | PROGRAMMING  |  |
| Ringing tone            | A ringing sound   | The call is ringing at the other person's phone.                                   |  |
| Testing<br>feedback     | A steady ringing sound  | Your MERLIN Plus system has<br>been installed correctly.                           |  |
| Programming<br>reminder | Your voice terminal rings<br>every 5 seconds to remind you<br>that you can't place or receive<br>calls. | You are in programming mode<br>and cannot place or receive<br>calls.               |  |
| Error/Deny<br>tone      | One beep  | You have made an error in<br>administration and should try<br>the step again.      |  |
| Confirmation tone       | Two beeps   | The administration feature has been entered into the system.                       |  |
| Hold<br>Reminder        | One beep every minute   | You have a call on hold.   |  |

The MERLIN Plus system also provides you with the following ringing sounds or voice announcements so that you know immediately what kind of call you are receiving.

| If you hear this type of ring or announcement  | You are receiving this kind of call         |  |
|--|---|--|
| One short and one long ring  | Transferred Call                            |  |
| A beep followed by a voice<br>announcement through your voice<br>terminal speaker                                  | Intercom Call with Voice<br>Announcement    |  |
| A beep followed by a voice<br>announcement through your voice<br>terminal before you receive a<br>transferred call | Transferred Call with Voice<br>Announcement |  |
| A beep   | Manual Signaling                            |  |
| One long beep  | Ringing Intercom Call                       |  |
| One long ring  | Outside Call                                |  |

#### CONSIDERATIONS

You can program your voice terminal with a ringing pattern that is different from the ringing sound of nearby voice terminals. See "Personalized Ringing."

#### ADMINISTRATION

None

# PROGRAMMING

None

#### HOW TO USE

By listening to the tones that the system or your voice terminal gives you, you can use your MERLIN Plus system more efficiently.

# Touch-Tone Enable

NOTE: This feature is for rotary lines only.

#### DESCRIPTION

If you have telephone lines that carry rotary signals, use the Touch-Tone Enable feature to switch to Touch-Tone signals midway through a dialing sequence. This lets you take advantage of bank-by-phone, credit card authorization, computer access, and alternate long distance services.

#### CONSIDERATIONS

When you hang up your handset after using this feature on a call, your system returns to rotary signals.

# ADMINISTRATION

None

### PROGRAMMING

To program a Touch-Tone Enable button for your voice terminal:

- Label the button Touch-Tone Enable.
- Slide the T/P switch to P. The voice terminal rings every 5 seconds to remind you that you are programming and that you cannot place or receive calls.
- Touch the button you want to program.
- Dial \*76.
- Slide the T/P switch to the center position.



#### HOW TO USE

To switch from rotary pulse to Touch-Tone signals as you dial a number:

- Touch Speakerphone or lift your handset.
- Dial the first part of the number.
- Touch Touch-Tone Enable.
- Dial the remaining numbers.



# Touch-Tone or Rotary Setting

# DESCRIPTION

When the MERLIN Plus system is installed, it is set to generate Touch-Tone signals. If any of the system's lines are rotary, the administrator must reset the system to rotary dialing by entering a code at the administrator/attendant console.

#### CONSIDERATIONS

If your system has any rotary lines, you should select the rotary setting for the system then program a Touch-Tone Enable button which can be activated when you are using your Touch-Tone lines. (See "Touch-Tone Enable".)

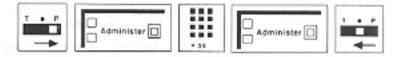
### ADMINISTRATION

If your responsibilities do not include system administration, skip this information.

To set your system for rotary dialing:

1 Enter administration mode by sliding the T/P switch to P and touching Administer.

- Dial \*39.
- Touch Administer. The console beeps twice.
- Leave administration mode by sliding the T/P switch to the center position.



If you need to reset the system for Touch-Tone dialing:

- Enter administration mode by sliding the T/P switch to P and touching Administer.
- Dial \*38.
- Touch Administer. The console beeps twice.
- Leave administration mode by sliding the T/P switch to the center position.



#### PROGRAMMING

None

# HOW TO USE

If you have telephone lines that carry rotary signals, you can switch to Touch-Tone signals midway through a dialing sequence by using the Touch-Tone Enable feature. (See "Touch-Tone Enable.")

#### DESCRIPTION

You can use your voice terminal Transfer button to transfer outside calls to someone else in your MERLIN Plus system.

There are three ways to transfer calls:

- Option A-Simple Transfer You can ask the person to whom you are transferring the call if he or she wants to accept the call.
- Option B—One-Touch Transfer If you have an Auto Intercom button for the person to whom you want to transfer a call, you can transfer a call with one touch.
- Option C-Direct Transfer You can transfer a call directly by dialing the intercom number.

### CONSIDERATIONS

If no one answers the transferred call, the call returns to the sender after a specified number of rings set by the system administrator. The administrator may also choose to set the system not to return calls. (See "Transfer Return Interval.")

If the person to whom you are transferring the call has activated the Voice Announcement Disable feature or if the person is using the intercom line at his or her voice terminal, you cannot announce the call.

You cannot transfer a conference call.

Option A, Simple Transfer, can be used only when the person receiving the transferred call has the line button on his or her voice terminal.

#### ADMINISTRATION

None

### PROGRAMMING

If you want to program an Auto Intercom button for a voice terminal to which you often transfer calls, see "Auto Intercom."

### HOW TO USE

To screen a call using Option A, Simple Transfer:

- Touch Hold.
- Touch Intercom and dial the intercom number of the person to whom you are transferring the call.

or

Touch the person's Auto Intercom button.

3 Announce the call and ask if it will be accepted.

No?

- Touch the held call's line button.
- Advise the caller.
- Hang up.



Yes?

- Advise the person to touch the appropriate line button.
- Hang up.



To transfer a call using Option B, One-Touch Transfer:

- With the call in progress, touch the Auto Intercom button of the person to whom you want to transfer the call.
- When you hear a beep, you can announce the call, if appropriate.
- Hang up.



To transfer a call using Option C, Direct Transfer:

- Touch Transfer.
- 2 Dial the intercom number of the person to whom you are transferring the
- 3 Hang up.



# Transfer Return Interval

#### DESCRIPTION

When someone in the MERLIN Plus system transfers a call and it is not answered, the call returns to the sender. When the system is first installed, it is set to return calls after four rings. The system administrator can change that setting so that calls ring as many as nine times before they return to the person who has transferred it. The administrator may also choose to set the system not to return transferred calls at all.

### CONSIDERATIONS.

If you are using the Direct Extension Dialing (DXD) feature with your MERLIN Plus system, you may want to consider setting a Transfer Return Interval. For more information, see "Direct Extension Dialing" in this section.

#### ADMINISTRATION

If your responsibilities do not include system administration, skip this information.

To administer the Transfer Return Interval for your system:

1 Enter administration mode by sliding the T/P switch to P and touching Administer.

- 2 Dial \*2 plus the number of rings (up to nine) you want before a call returns. For example:
  - \*20 programs the system not to return transferred calls
  - \*21 programs the system to transfer calls after one ring.
  - \*29 programs the system to transfer calls after nine rings.
- 3 Touch Administer.

The console beeps twice.

4 Leave administration mode by sliding the T/P switch to the center position.











#### PROGRAMMING

None

HOW TO USE

Ask your system administrator what Transfer Return Interval is set for your system.

# Voice Announcement Enable/Disable

### DESCRIPTION

Ordinarily, people can use the MERLIN Plus system intercom feature to announce calls through your voice terminal speaker. However, if you do not want a voice announcement to interrupt your work, you can use the Voice Announcement Disable feature to have intercom calls ring at your voice terminal instead.

### CONSIDERATIONS

If someone in the MERLIN Plus system has the Voice Announcement Disable feature programmed for his or her voice terminal, he or she cannot hear a Group Page announcement.

If you use the Voice Announcement Disable feature on a voice terminal with HFAI, you deactivate the HFAI feature. However, the Voice Announcement Disable feature does not affect voice terminals with connected hands-free units and with the Auto Answer-All feature activated.

#### ADMINISTRATION

None

#### PROGRAMMING

To program the voice announcement option you prefer for your voice terminal:

Slide the T/P switch to P. The voice terminal rings every 5 seconds to remind you that you are programming and that you cannot place or receive calls.

- Touch Intercom.
- Dial one of the following codes to indicate that you want voice announcements allowed or prevented at your voice terminal:
  - If you want voice announcements allowed, dial \*38. The green light next to the Intercom button goes on.
  - If you want voice announcements prevented, dial \*39. The green light next to the Intercom button goes off.
- Slide the T/P switch to the center position.









HOW TO USE

None

# Voice Terminal Templates

#### DESCRIPTION

During administration, it may be useful to use the four voice terminal templates already designed for typical business uses, rather than program each voice terminal individually. The four templates are:

- The Clear Template: This template is used for erasing previous voice terminal features so that new features can be assigned. This template does not remove line assignments.
- The Dialer Template: This template is for personnel who do not require special features, and who aren't likely to make toll calls.
- The Feature Template: This template is designed for personnel, such as managers and owners, who need unrestricted phone use along with several additional features offered by the MERLIN Plus system.
- The Receptionist/Secretary Template: This template is intended for receptionists, secretaries, and backup call handlers, including the system attendant.

#### CONSIDERATIONS

Both the Receptionist/Secretary template and the Features template require a 22-button or larger voice terminal.

Features, such as Voice Announcement Enable/Disable and Personalized Ring, previously administered to a voice terminal still apply even though they do not appear on the templates.

Unless Program Mode Lock is on, an individual can choose to reprogram different features over the features provided on the template.

# ADMINISTRATION

To administer one of the four templates onto a voice terminal:

- Enter administration mode by sliding the T/P switch to P and touching Administer.
- 2 Dial \*10 followed by the option number of the template:

1 = Clear template

2 = Dialer template

3 = Feature template

4 = Receptionisi/Secretary template

3 Touch the Auto Intercom button or dial the intercom number of the target voice terminal.

The console beeps twice after each voice terminal is administered a template.

NOTE: Label the target voice terminal with the lines and features provided by the assigned template.

4 Touch Administer.

The console beeps twice.

5 Continue to administer the templates to voice terminals, or leave administration mode.













#### PROGRAMMING

None

HOW TO USE

Refer to Section 3 "Administration" under "Voice Terminal Templates" for further information.

# Accessory Equipment

Once you have set up your MERLIN Plus system, you may decide to purchase additional hardware such as a headset that the system attendant can use for easier call-handling or a basic telephone that is connected to the MERLIN Plus system but which you can use off-premises. The information included in "Accessory Equipment" will help you decide what optional equipment you want to add to your system and how to use these accessories.

The information in the entry for each accessory is divided into five parts:

#### Description

The description of the accessory tells what it does and its advantages for the user.

#### Drawings and Diagrams

Drawings of the accessory and its parts are included for each piece of equipment, along with, if applicable, diagrams showing how the equipment is connected to other MERLIN Plus system accessories.

#### Considerations

Special considerations include any qualifications the user should know about the hardware, ways in which the equipment can or cannot be used, or other hardware or features it can or cannot be used with.

#### Administration

If applicable, administration procedures are given for setting options at the administrator/attendant console so that people in the MERLIN Plus system can use the accessory equipment.

#### How to Use

If applicable, procedures describe how to use the equipment or voice terminal.

# Basic Telephones

#### DESCRIPTION

Basic Touch-Tone telephones can provide regular phone service and can use many of the features of your communication system using dial codes and switchhook flashes. The table below shows the telephones that are compatible with the MERLIN Plus system and the possible connections:

| Compatible Telephones             | Connect To              |
|-----------------------------------|-------------------------|
| Industry standard rotary          | AUX port<br>BTMI        |
| Industry standard Touch-Tone      | AUX port<br>BTMI<br>GPA |
| Touch-Tone with MC/RCL (3178-SYS) | AUX port<br>BTMI<br>GPA |
| Speakerphone 420 (3102-420)       | AUX port<br>BTMI<br>GPA |

NOTE: Touch-Tone with MC/RCL (3178-SYS) models do not have a message waiting indicator.

#### CONSIDERATIONS

You can also use accessories with your MERLIN Plus system that work similarly to basic telephones. These accessories include auto-dial modems, facsimile machines, credit phones, answering telephones, manual dial modems, auto dialers, and answering machines. The following devices support these accessories.

- Basic Telephone and Modem Interface (BTMI)-The BTMI is intended for on-premises telephones and accessories. You can connect to your MERLIN Plus system such accessories as auto-dial modems, facsimile machines, credit phones, and answering telephones. You do not need to use a MERLIN Plus system voice terminal with these accessories.
- General Purpose Adapter (GPA)— The GPA is intended for accessory equipment that you can connect to your MERLIN Plus system voice terminal such as manual dial modems, auto dialers, answering machines, and cordless telephones.
- Auxiliary Jack (AUX jack)— The AUX jack on the MERLIN Plus system control unit is primarily intended to let you share Line A and/or E with the MERLIN Plus system. You can connect such devices as data devices, a facsimile machine, or an answering machine to the AUX jack.

Once you have assigned lines to a basic telephone, be sure to provide the person using the telephone with a list of the codes for the lines he or she has access to.

Basic telephones are able to receive ringing intercom calls, but not intercom calls with voice announcement. Therefore, you must program the Voice Announcement Disable feature for the telephone.

In order to program Voice Announcement Disable, Ringing Options, or an Automatic Line Selection sequence for the basic telephone, the system administrator can use the Centralized Programming feature on the administrator/attendant console.

#### ADMINISTRATION

If your responsibilities do not include system administration, skip this information.

- 1 Assign lines to the basic telephone:
  - Enter administration mode by sliding the T/P switch to P and touching Administer.
  - b Dial the intercom number or touch the Auto Intercom button for the basic telephone that you are administering. A green light comes on next to the Auto Intercom button. Green lights also come on next to the buttons of any lines already assigned to the telephone.
  - Touch each line button so that the green light next to it shows the line assignment you prefer.

```
Green light on = the line is assigned to the telephone
Green light off = the line is not assigned to the telephone
```

- 2 To restrict the type of calls that the basic telephone can place:
  - a Touch Restrict until the green light next to it shows the code for the call restrictions you want the telephone to have:

```
Steady green light = Unrestricted (all calls permitted)
Flashing green light = Toll restricted (local and intercom calls)
     Green light off - Outward restricted (intercom calls)
```

b When you are finished administering the basic telephone, touch Administer.

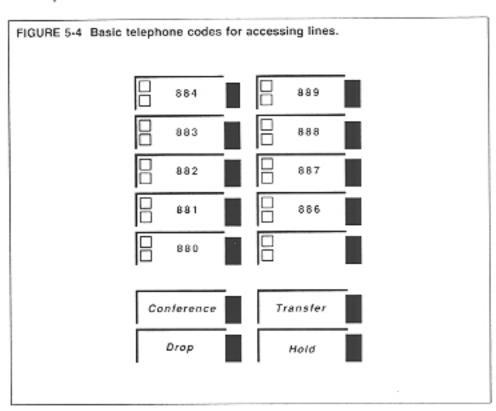
The console beeps twice.

- Leave administration mode by sliding the T/P switch to the center
- Then connect a MERLIN Plus system voice terminal directly to the control unit voice terminal jack to which you plan to connect the BTMI. (You can also program the basic telephone by using the Centralized Programming feature on the administration/attendant console. For more information on this feature, see "Centralized Programming.")
- 4 Program this substitute telephone for Voice Announcement Disable:
  - Slide the T/P switch to P.
  - Touch the Intercom button until the green light next to it goes off.
- If you want to change the order in which the system selects available lines for this telephone, assign an Automatic Line Selection sequence.
  - While in programming mode, dial \*\*.
  - Touch the line buttons in the order you want them to be selected.
  - When you are finished programming the basic telephone, slide the T/P switch to the center position.
- 6 If you want the basic telephone not to ring on specified lines, use the Ringing Options feature. While in programming mode, touch the line for which you want to program a ringing option:
  - If you don't want the phone to ring, dial \*35.
  - If you want the phone to ring immediately when a call comes in, dial \*37.

7 Disconnect the substitute voice terminal and connect the BTMI to the same voice terminal jack. Then connect the basic telephone to the BTMI.

HOW TO USE

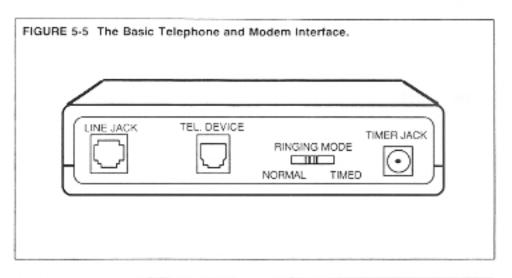
A person using a basic telephone must dial the codes shown in Figure 5-4 to access the lines the system administrator assigns to the intercom number for the telephone.

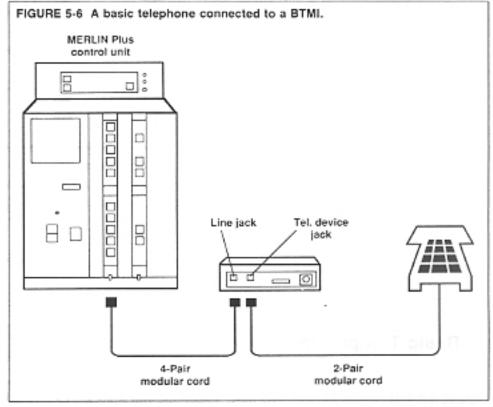


# Basic Telephone and Modem Interface

DESCRIPTION

The Basic Telephone and Modem Interface (BTMI) allows you to connect most types of telephone and data devices to your MERLIN Plus system, including auto-dial modems, facsimile machines, credit phones, and answering machines. See Figures 5-5 and 5-6.





The BTMI works with Touch-Tone and rotary telephones.

ADMINISTRATION

None

PROGRAMMING

If you do not want the basic telephone to ring on every line, you can specify which lines ring when a call comes in using Ringing Options and programming the lines for immediate or no ring. See "Ringing Options" in this section.

You can also specify the order of lines for the phone by programming an Automatic Line Selection sequence. Be sure to program Automatic Line Selection only for those lines to be used by the basic telephone. See "Automatic Line Selection" in this section.

Basic telephones are able to receive ringing intercom calls, but not intercom calls with voice announcement. Therefore, you must program the Voice Announcement Disable feature for the telephone. See "Voice Announcement Disable" in this section.

In order to program Voice Announcement Disable, Ringing Options, or an Automatic Line Selection sequence for the basic telephone, you can use either the Centralized Programming feature on the administrator/attendant console or program a substitute MERLIN Plus system voice terminal plugged into the voice terminal jack designated for the BTMI. See "Centralized Programming" in this section.

For more information on assigning lines and features for a basic telephone, see "Basic Telephones."

HOW TO USE

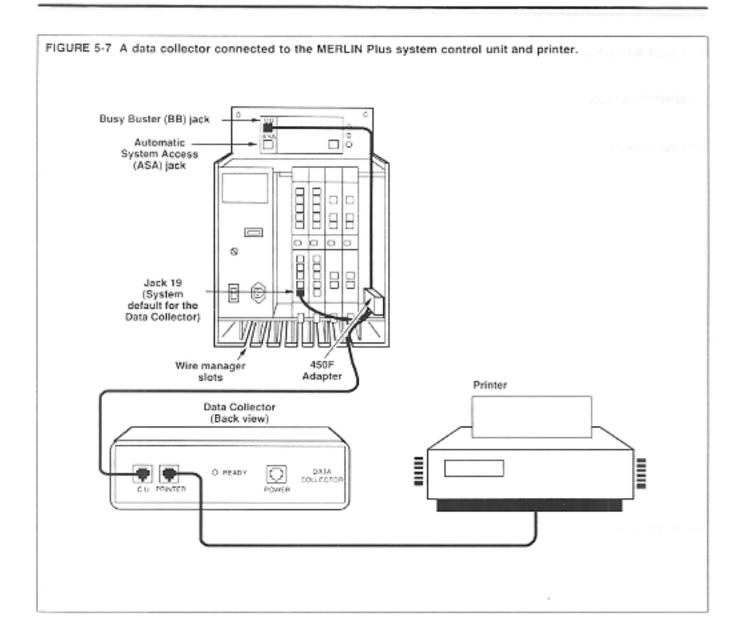
See the "User's Guide for Off-Premises and Basic Telephones," included with the BTMI, for instructions on how to operate a telephone connected to a BTMI.

A person using a basic telephone must dial 3-character codes to access the lines the system administrator assigns to the intercom number for the telephone. For a list of these codes, see "Basic Telephones."

### Data Collector and Printer

DESCRIPTION

The MERLIN Plus system Data Collector uses information from the Call Report and System Feature Report features and transmits the material from the MERLIN Plus system to a printer or to a PC with a standard RS232-C, 1200 baud, serial interface. You can connect the data collector to an available voice terminal jack on the control unit.



An AT&T 475 printer or its equivalent is recommended to work with the MERLIN Plus system data collector.

The MERLIN Plus system is set to have the data collector and the printer connected to voice terminal jack 19, but the administrator can connect the data collector and the printer to any other voice terminal jack in the system, except jack 10. See Figure 5-7.

> NOTE: If you are using the same printer and data collector for both the System Feature Report and the Call Report features and change the voice terminal jack assignment, you must administer the new jack assignment for both features.

The data collector can hold up to one full page of printout, 60 lines of 80 characters each. The collector disregards any material over the one page limit.

For proper operation of the printer with the MERLIN Plus system data collector, the printer options must be set correctly. The options and the method of selecting them varies with different printers. Consult the Customer Information Bulletin (CIB) that is provided with the data collector for the correct option settings for your AT&T 475 printer.

ADMINISTRATION

Refer to the CIB and System Feature Report for Administration procedures.

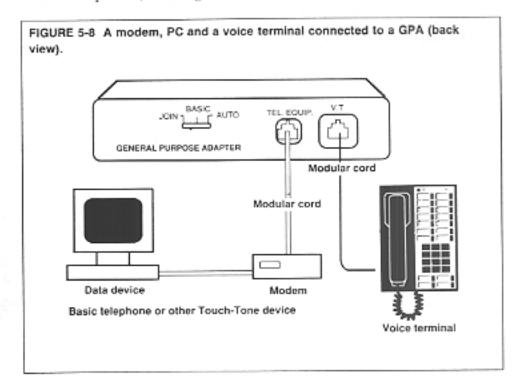
HOW TO USE

None

## General Purpose Adapter (GPA)

### DESCRIPTION

With the General Purpose Adapter (GPA) you can connect to your voice terminal's Touch-Tone (not rotary) equipment such as manual dial modems, auto dialers, answering machines, and telephone extensions (including cordless telephones). See Figure 5-8.



CONSIDERATIONS

If you set the GPA to the Auto (automatic setting), you must program an Auto Answer-All button for your voice terminal. (See "Auto Answer-All.")

### ADMINISTRATION

None

HOW TO USE

You can select the switch position, labeled Join, Basic, or Auto on the adapter, required for operating the telephone or data equipment. When you have made the appropriate selection for your needs, slide the three-position option switch to the selected mode of operation. For the Joined Call Operation option, see the information that comes with the GPA.

### Originating a Call

 Use the Basic Operation switch position if you only originate calls with your telephone or data device. You may also answer incoming calls using your telephone or data device. However, incoming calls ring only at your voice terminal, not at the telephone or data device.

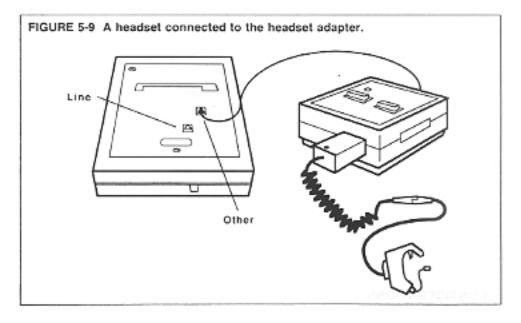
### Using an Automatic Answering Device

 Use the Automatic Operation switch position for using automatic answering devices. Before operating these devices, program an Auto Answer-All feature button so you can set the devices to go on automatically when you receive ringing calls.

### Headset and Headset Adapter

DESCRIPTION

A Headset connected to your voice terminal by way of the Headset Adapter allows you to handle calls more easily. See Figure 5-9.



A headset cannot be used with a 5-button or a 10-button HFA1 voice terminal.

The cord on the headset is plugged into the headset adapter, and the voice terminal and the adapter are connected by way of a modular cord which comes with the adapter. The headset adapter plugs into the jack labeled "Other."

### ADMINISTRATION

None

### HOW TO USE

To place a call using your headset:

- Touch On/Quiet on the headset adapter. The green light next to the button goes on.
- 2 Dial the outside number.

To answer a call:

Touch On/Quiet on the headset adapter.

To mute the microphone:

Hold down On/Quiet on the headset adapter.

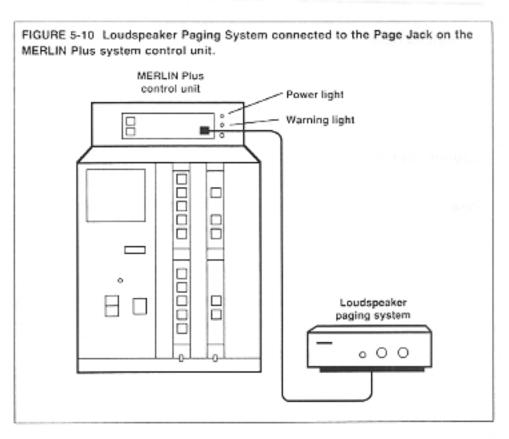
To hang up:

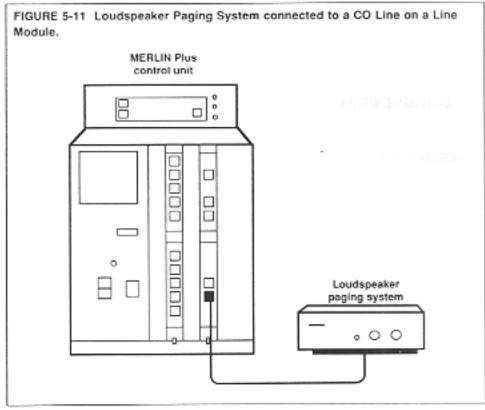
 Touch Off on the headset adapter. The green light next to On/Quiet goes off.

## Loudspeaker Paging System

### DESCRIPTION

If you have a compatible loudspeaker paging system, you can connect it to the MERLIN Plus system either through the page jack on the control unit or through a CO (outside) line jack on a line module as shown in Figures 5-10 and 5-11. You can then page people, make announcements, and provide background music (if available) throughout the building.





Considerations for the Page Jack connection:

The loudness of the loudspeaker paging system is controlled by the loudspeaker paging system only.

To control the loudness of the background music throughout the building, or to turn off the background music, the system administrator can dial a code at the administrator/attendant console for the preferred volume. Background music volume can also be controlled at the music source. The following are the jack pin-out specifications for the loudspeaker paging system. Pin numbers from left to right (1 through 8) are:

- 4,5 for voice
- 3.6 for contact closure
- 1,2,7,8 are unused

### Considerations for CO line connection:

If the paging unit is connected to a CO port but is administered as a paging port, it is treated differently than a CO line, and has the following restrictions:

- An auxiliary jack cannot be used as a paging port.
- Conferencing to this paging port or adding this port to a conference call is prohibited.
- Transferring of the paging port is prohibited.
- Bridging onto the paging port is prohibited.
- No Call Reports can be generated for this line.
- No Call Restrictions apply, therefore, even outward restricted voice terminals could use this line for toll calls.
- The volume is controlled by the loudspeaker paging system only.
- Unlike the page jack connection, the CO connection provides no signal to alert you when the loudspeaker paging system has been activated.

If you want to save available feature buttons for other features, use the dial code instead of programming a Loudspeaker Page button.

### ADMINISTRATION

If your responsibilities do not include system administration, skip this information.

Administration for the Page Jack connection:

To set the volume of background music, or to turn the music off, dial one of the following codes:

Enter administration mode by sliding the T/P switch to P and touching Administer.

- 2 Dial one of the following codes to set the volume you prefer:
  - Dial \*16 to turn off the background music.
  - Dial \*17 to set the volume to low.
  - Dial \*18 to set the volume to medium.
  - Dial \*19 to set the volume to high.
- 3 Touch Administer.

The console beeps twice.

4 Leave administration mode by sliding the T/P switch to the center position.

Administration procedures for CO line connection:

- Slide the T/P switch to P and touch Administer.
- Dial \*91
- 3 Touch the button for the line you want to be the paging port.

Green light on = line added to paging port Green light off = line removed from paging port

4 Touch Administer.

The console beeps twice.

5 Leave administration mode by sliding the T/P switch to the center position.

### PROGRAMMING

Refer to "Loudspeaker Page" earlier in this section.

### HOW TO USE

### Using the Loudspeaker Paging System connected to the Page Jack:

To use the Loudspeaker Page button:

- Touch Loudspeaker Page.
- When you hear the beep, lift your handset and make your announcement.

To use this feature dialing a code:

- Touch Intercom.
- Lift your handset.
- 3 Dial 6.
- 4 When you hear the beep, make your announcement.

The loudspeaker will turn off automatically when you hang up.

### Using the Loudspeaker Paging System connected to a CO line:

- Touch the loudspeaker page's line button.
- Follow the instructions provided with your loudspeaker page system.
- If your loudspeaker page system provides a warning tone (beep), wait for the tone before making your announcement.

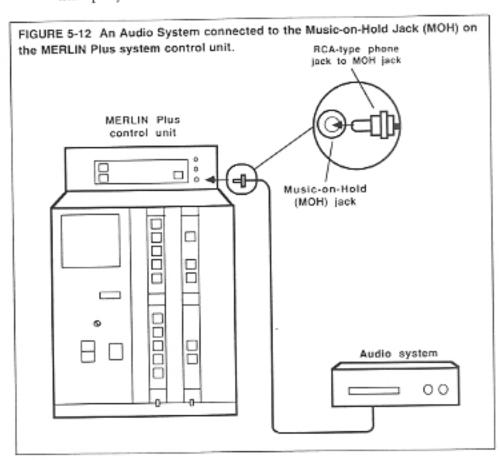
## Music-on-Hold (MOH) and Background Music

### DESCRIPTION

When you have Music-on-Hold, you can provide background music for callers whom you have placed on hold.

The Music-on-Hold (MOH) Jack is an RCA-type phonograph jack, into which you can plug an audio system. It is on the front of the control unit behind the top cover under the red warning and the green power lights as seen in Figure 5-12.

> NOTE: Users of equipment that rebroadcasts copyrighted music or other material may be required to obtain a copyright license from a third party such as ASCAP or BMI.



### CONSIDERATIONS

To control the loudness of the Music-on-Hold and the background music for the building, the system administrator can dial a code at the administrator/attendant voice terminal for the preferred volume. The administrator can also turn off the Music-on-Hold and background music by entering a code at the administrator/attendant console.

The system is factory-set for medium music volume. The music volume can also be controlled at the music source.

The Music-on-Hold feature is designed to accept 8-ohm impedance input, matching the output of a variety of audio sources.

You should use the Music-on-Hold feature with DXD so that callers can hear music when they are placed on hold. See "Direct Extension Dialing" in this section.

You can also use the Music-on-Hold feature with System Answer, so that callers hear a special prerecorded message or music while they are waiting.

#### ADMINISTRATION

If your responsibilities do not include system administration, skip this

From the administrator/attendant console, you can set the volume for Musicon-Hold or turn it off by dialing one of the four settings listed below:

- Enter administration mode by sliding the T/P switch to P and touching Administer.
- 2 Dial one of the following codes to set the volume you prefer.
  - Dial \*12 to turn off Music-on-Hold.
  - Dial \*13 to set the volume to low.
  - Dial \*14 to set the volume to medium.
  - Dial \*15 to set the volume to high.
- Touch Administer.

The console beeps twice.

4 Leave administration mode by sliding the T/P switch to the center position.

If you want to set the volume on the background music for the building or turn the music off, dial one of the following codes:

- 1 Enter administration mode by sliding the T/P switch to P and touching Administer.
- 2 Dial one of the following codes to set the volume you prefer:
  - Dial \*16 to turn off the background music.
  - Dial \*17 to set the volume to low.
  - Dial \*18 to set the volume to medium.
  - Dial \*19 to set the volume to high.
- 3 Touch Administer.

The console beeps twice.

4 Leave administration mode by sliding the T/P switch to the center position.

### PROGRAMMING

None

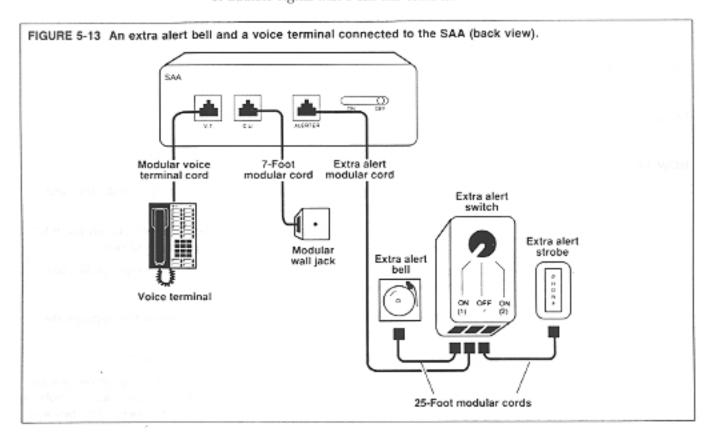
HOW TO USE

Operate your audio system according to the directions that came with the equipment.

## Supplemental Alert Adapter (SAA)

### DESCRIPTION

You can connect Extra Alert Devices, such as a bell, horn, strobe, or chime, to your system so that people working in noisy or remote areas of a building can be alerted when a call rings. See Figure 5-13. When you activate the Supplemental Alert Adapter (SAA) and a voice terminal rings, the adapter automatically activates the connected extra alert device, which gives a visual or audible signal that a call has come in.



An Extra Alert Switch allows you to turn an extra alert device on and off and alternately select between two different connected alerting devices, such as a strobe during business hours and a bell off-hours. You may also alternate between two extra alert devices installed in different locations.

In addition, an extra alert switch allows you to use two extra alert devices simultaneously. However, you may need a voice terminal power supply when you have more than one extra alert device connect to the SAA. The extra alert switch is compatible with MERLIN Plus extra alert devices (-48V).

If you want the SAA to automatically turn on the extra alert devices connected to

the extra alert switch, plug the extra alert switch into the Alerter jack of the SAA.

If you want to use extra-alerting devices simultaneously, you need to plug the modular cord for each device into a Line Bridging Adapter which you can connect to either position (1) or position (2) on the bottom of the extra alert switch.

For more information, contact your equipment dealer.

#### ADMINISTRATION

None

### PROGRAMMING

None

#### HOW TO USE

To set up your SAA:

- Unplug the appropriate voice terminal from its modular wall jack, and plug it into the jack labeled V.T. on your SAA.
- 2 Plug one end of the modular cord into the jack labeled C.U. on the SAA and the other end into the voice terminal's modular wall jack.
- 3 Plug the modular cord from the extra alert device into the jack labeled Alerter on the SAA.

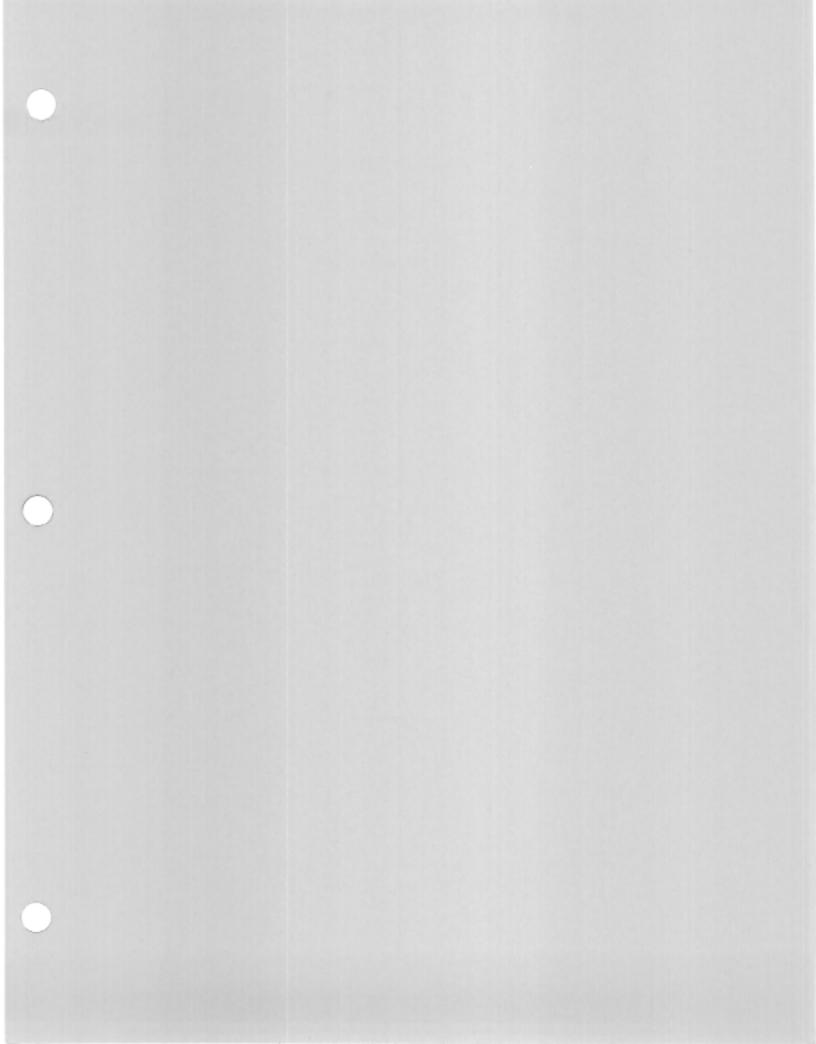
To have the extra alert device turn on when a call rings at the appropriate voice terminal, turn the SAA to the On position.

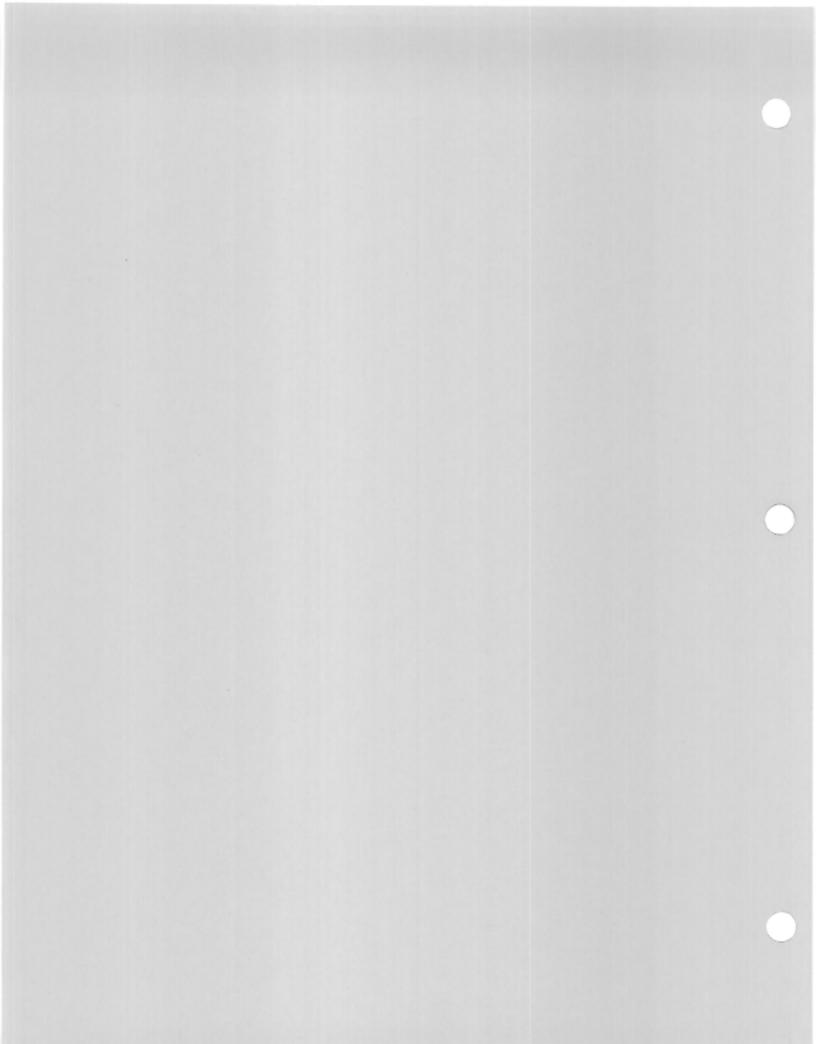
If you want to use more than one extra alert device alternately:

1 Turn the extra alert switch's knob to the appropriate On position labeled (1) or (2). For example, if you connect a bell to position (1) and a strobe to position (2), turn the control switch to position (1) to operate the bell and to position (2) to operate the strobe.

If you want to use more than one extra alert device simultaneously:

 Turn the extra alert switch knob to the appropriate On position labeled (1) or (2). For example, if you connect a bell and a strobe to a line bridging adapter and the adapter to position (1) on the SAA, turn the control switch to this position.





# Section 6: Quick Reference Guides

| Quick Reference Guide to System Administration       | 6-1  |
|--|------|
| Quick Reference Guide to Administration Codes        | 6-12 |
| Quick Reference Guide to Voice Terminal Features     | 6-16 |
| Quick Reference Guide to Programming Codes           | 6-20 |
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## Quick Reference Guide to System Administration

The following table is a quick guide to administration procedures for the MERLIN\* Plus Communications System. If you need more information on a procedure than the table gives you, look up the procedure in Section 5, "Reference."

Before you perform the steps given for any procedure, you first have to enter administration mode as follows:

Slide the T/P switch on the left side of the console to P. The red lights next to the line buttons go on steady. The green lights next to the line buttons begin flashing. The console rings every 5 seconds to remind you that it's in programming mode.

### 2 Touch Administer.

The red lights go on steady next to Administer and Restrict. All other lights go off, and the ringing stops.

NOTE: If you are performing several of these procedures in one administration session, you don't have to leave administration mode after each one. Simply dial the appropriate code or touch the appropriate button to begin the next procedure.

When you finish administering the system, leave administration mode as follows:

- Slide the T/P switch to the center position.
- 2 Change any voice terminal (telephone) button labels and any entries on forms or directories to reflect the administration or programming changes you've made.

| Administration Procedure              | Do This  |
|---------------------------------------|--|
| Specify toll-prefix or area-code-only | 1 Enter administration mode.                                   |
| dialing.                              | 2 Dial the appropriate code:                                   |
|                                       | *36 for toll-prefix dialing<br>*37 for area-code-only dialing. |
|                                       | 3 Touch Administer.  |
|                                       | The console beeps twice.                                       |
|                                       | 4 Leave administration mode.                                   |
| Specify Touch-Tone or rotary (pulse)  | 1 Enter administration mode.                                   |
| dialing.                              | 2 Dial the appropriate code:                                   |
|                                       | *38 for Touch-Tone dialing<br>*39 for rotary (pulse) dialing.  |
|                                       | 3 Touch Administer.  |
|                                       | The console beeps twice.                                       |
|                                       | 4 Leave administration mode.                                   |
|                                       |  |

| Administration Procedure                          | Do This   |
|---|---|
| Make Line A and or Line E Private.                | <ul> <li>Enter administration mode.</li> <li>Dial * 57. The green lights next to the buttons for Line A and Line E indicate their status:</li> <li>Green light on = privacy active</li> <li>Green light off = privacy mactive</li> </ul>  |
|   | 3 Touch the line button until the green light indicates the privacy status you want. 4 Touch Administer. The console beeps trace. 5 Leave administration mode.  |
| Customize line assignments to a telephone.        | <ol> <li>Enter administration mode.</li> <li>Touch the Auto Intercom button or dial the intercom number for the phone.</li> <li>Touch the line buttons to add or remove lines. Add the lines in the order that they should appear.         Green light on = line is assigned         Green light off = line is not assigned     </li> <li>Leave administration mode.</li> </ol>   |
| Specify number of lines in the system             | <ol> <li>Enter administration mode.</li> <li>Dial *4.</li> <li>Dial the number of lines in the system (1-8).</li> <li>Touch Administer.         The causale beeps traice.     </li> <li>Leave administration mode.</li> </ol>   |
| Assign Button-Free Line Operation to a telephone. | <ol> <li>Enter administration mode.</li> <li>Touch the Auto Intercom button or dial the intercom number for the phone.</li> <li>Touch the line button until the green light next to it shows the line assignment you want:         Green light on = the line is assigned to the voice terminal         Green light off = the line is not assigned to the voice terminal</li> <li>Dial either *31 if you want the phone to ring on incoming calls or *32 if you don't want it to ring.</li> <li>Touch Administer.         The console beeps trrice.</li> <li>Leave administration mode.</li> <li>NOTE: To make all outside lines reappear on the voice terminal, enter administration mode, touch the Auto Intercom button or dial the intercom number of the phone, dial *34, touch Administer, and leave administration mode.</li> </ol> |

| Administration Procedure                   | Do This  |
|--|--|
| Assign Call Restrictions to a telephone.   | Enter administration mode.   |
|  | 2 Touch the Auto Intercom button or dial the intercom number for the phone.  |
|  | 3 Touch Restrict repeatedly until the green light indicates the desired restriction.   |
|  | Green light on steady = Unrestricted (all calls permitted) Green light flashing = Toll restricted (no long distance permitted) Green light off = Outward restricted (no outside calls) |
|  | 4 Touch Administer.  |
|  | The console beeps troice.  |
|  | 5 Leave administration mode.   |
| Add an entry to an Allowed List.           | 1 Enter administration mode.   |
|  | 2 Dial the code for the right list: for lists 1 through 8 dial *01 through *08.  |
|  | 3 Dial the item number (01 through 10).  |
|  | 4 Dial the entry (up to eight digits).   |
| 2, 101                                     | The console beeps twice on the eighth digit.   |
|  | 5 Touch Administer.  |
|  | The console beeps twice.   |
|  | 6 Leave administration mode.   |
| Remove an entry from an Allowed List.      | 1 Enter administration mode.   |
|  | 2 Dial the code for the right list; for lists 1 through 8 dial *01 through *08.  |
|  | 3 Dial the item number (01 through 10).  |
|  | 4 Touch Drop.  |
|  | 5 Touch Administer.  |
|  | The console beeps twice.   |
|  | 6 Leave administration mode.   |
| Assign an Allowed List to a voice terminal | 1 Enter administration mode.   |
| Assign an Anowed List to a voice terminal  | 2 Dial the code for the right list; for lists 1 through 8 dial *01 through *08.  |
|  | 3 Dial 00.   |
|  | 4 Touch the Auto Intercom button or dial the appropriate intercom<br>code number for the telephone.  |
| gradianting to                             | Green light on = list is assigned to the telephone<br>Green light off = list is not assigned to the telephone  |
|  | 5 Touch Administer.  |
|  | The console beeps twice.   |
|  | 6 Leave administration mode.   |

| Administration Procedure   | Do This  |
|--|--|
| Add an entry to the Disallowed List.   | 1 Enter administration mode.   |
|  | 2 Dial *09 followed by the Disallowed List code (01 to 20).  |
|  | 3 Dial the disallowed number (up to 16 digits).  |
|  | 4 Touch Administer.  |
|  | The console beeps twice.   |
|  | 5 Leave administration mode.   |
| Remove an entry from the Disallowed  | 1 Enter administration mode.   |
| List.  | 2 Dial *09 and the Disallowed List code (01-20).   |
|  | 3 Touch Administer.  |
|  | The console beeps twice.   |
|  | 4 Leave administration mode.   |
| Assign a Disallowed List to a voice  | 1 Enter administration mode.   |
| terminal.  | 2 Dial *09 then 00.  |
|  | 3 Touch the Auto Intercom or dial the appropriate intercom code<br>number of the voice terminal you want to assign the list to.<br>Green light on = list is assigned<br>Green light off = list is not assigned |
|  | 4 Touch Administer.  |
|  | The console beeps twice.   |
|  | 5 Leave administration mode.   |
| Copy line assignments, call restrictions,  | 1 Enter administration mode.   |
| and programmed features from one<br>telephone (the source) to another (the<br>target). | 2 Touch the Auto Intercom button or dial the intercom number for the target voice terminal.  |
|  | 3 Touch Copy.  |
|  | 4 Touch the Auto Intercom button or dial the intercom number for the<br>source voice terminal.   |
|  | 5 Touch Administer. The console beeps twice.   |
|  | 6 Leave administration mode.   |
| Change the Hold Disconnect Interval.   | Enter administration mode.   |
|  | 2 Dial *69.  |
| •  | 3 Touch the line button of the incoming line that you want to change<br>the hold disconnect interval.  |
|  | Green light on = the long (450 millisecond) interval is selected.<br>Green light off = the short (50 millisecond) interval is selected.  |

| Administration Procedure                                    | Do This   |
|---|---|
| Assign System Speed Dial codes to                           | 1 Enter administration mode.  |
| telephone numbers and account numbers.                      | 2 Dial the code (#60 through #89 or #900 through #999) you are<br>assigning to the number.  |
|   | 3 Dial either:  *90 to assign the code without Restriction Override  *92 to assign the code with Restriction Override  *88 to assign the code to an account number. |
|   | 4 Dial the telephone number or account number.  |
|   | <b>NOTE</b> : To designate a telephone number as private (not printed or call reports), dial * before the number in step 4.   |
|   | If the telephone number or account monber has the maximum allowed 16 digits, the console beeps twice when you enter the sixteenth digit.                            |
|   | 5 Touch Administer.   |
|   | The console beeps twice.  |
|   | 6 Leave administration mode.  |
| Assigning or removing a voice terminal from a paging group. | 1 Enter administration mode.  |
|   | 2 Dial the code for the paging group (*71 or *72).  |
|   | 3 Touch the Auto Intercom button or dial the appropriate code from<br>the dial code chart for the phone you want to add or remove.                                  |
|   | Green light on = telephone is assigned<br>Green light off = telephone is removed  |
|   | NOTE: Touch DROP to remove all voice terminals from a paging group.   |
|   | 4 Touch Administer. The console beeps twice.  |
|   | 5 Leave administration mode.  |
| Set the Transfer Return Interval.                           | Enter administration mode.  |
|   | 2 Dial the code for the transfer return interval you want (up to nine rings);   |
|   | <ul><li>*2 plus the number of rings wanted (*25 = five rings).</li><li>*20 for transferred calls to not be returned.</li></ul>                                      |
|   | 3 Touch Administer.   |
|   | The console beeps twice.  |
|   | 4 Leave administration mode.  |

| Administration Procedure                 | Do This   |
|--|---|
| Set the Music-on-Hold volume.            | 1 Enter administration mode.  |
|  | 2 Dial the code for the volume you want:  |
|  | *12 to turn off Music-on-Hold.  *13 to set the volume to low.  *14 to set the volume to medium.  *15 to set the volume to high.     |
|  | Or use the music source volume control instead.   |
|  | 3 Touch Administer. The console beeps twice.  |
|  | 4 Leave administration mode.  |
| Set the background music volume.         | Enter administration mode.  |
|  | 2 Dial the code for the volume you want:  |
|  | *16 to turn off the background music. *17 to set the volume to low. *18 to set the volume to medium. *19 to set the volume to high. |
|  | Or use the music source volume control instead.   |
|  | 3 Touch Administer. The console beeps twice.  |
|  | 4 Leave administration mode.  |
| Set the date for Call Reports and System | 1 Enter administration mode.  |
| Feature Reports.                         | 2 Dial *80.   |
|  | 3 Dial two digits for the month (01 through 12), two for the day (01 through 31), and two for the year (00 through 99).             |
|  | 4 Touch Administer. The console beeps twice.  |
|  | 5 Leave administration mode.  |
| Set the time for Call Reports and System | 1 Enter administration mode.  |
| Feature Reports.                         | 2 Dial *81.   |
|  | 3 Dial two digits for the hour (00 through 23) and two for the minute<br>(00 through 59).   |
|  | 4 Touch Administer. The console beeps twice.  |
|  | 5 Leave administration mode.  |

| Administration Procedure   | Do This  |
|--|--|
| Designate a telephone jack on the control  | 1 Enter administration mode.   |
| unit for Call Reports.   | 2 Dial *82.  |
|  | The green light goes on next to the Auto Intercom button for the jack to which the data collector and printer are currently assigned.  |
|  | 3 Touch the Auto Intercom button for the new telephone jack to<br>which you are assigning the data collector and printer.  |
|  | The green light goes off next to the Auto Intercom button for the old jack, and the green light next to the Auto Intercom button for the new jack goes on.   |
|  | 4 Touch Administer. The console beeps twice.   |
|  | 5 Leave administration mode.   |
| Set the minimum call duration for Call   | 1 Enter administration mode.   |
| Report records.  | 2 Dial *83.  |
|  | 3 Dial one digit (0 through 9) for the minimum number of minutes.  |
|  | NOTE: The system adds 10 seconds to the number of minutes you select.  |
|  | 4 Touch Administer.  |
|  | The console beeps twice.   |
|  | 5 Leave administration mode.   |
| Set the calls reported option for Call   | Enter administration mode.   |
| Reports.   | 2 Dial *84.  |
|  | 3 Dial the code for the calls reported option you want:  |
|  | 0 = no calls reported  |
|  | 1 = outgoing calls only<br>2 = outgoing and incoming calls   |
|  | 4 Touch Administer.  |
|  | The console beeps twice.   |
|  | 5 Leave administration mode.   |
| Print a System Feature Report.   | 1 Enter administration mode.   |
|  | 2 Dial the code for the report or set of reports you want:   |
|  | *60 for one system administration report and individual phone reports.   |
| (100 may 100 m | *61 for a system administration report.  *62 plus touch one or more Auto Intercom buttons or dial one o more intercom numbers for individual phone reports.  *63 to abort a printout and cancel all other report requests. |
|  | 3 Touch Administer.  |
|  | The console beeps twice.   |
|  | 4 Leave administration mode.   |

| Administration Procedure                 | Do This   |
|--|---|
| Designate a voice terminal jack on the   | 1 Enter administration mode.  |
| control unit for System Feature Reports. | 2 Dial *85. stoops8 (%) at  |
|  | If previously administered, the green light goes on next to the Auto<br>Intercom button for the jack to which the data collector and printer are<br>currently assigned.   |
|  | 3 Touch the Auto Intercom button of the jack to which the data collector and printer are connected. The green light goes off next to the Auto Intercom button for the old jack, and the green light next to the Auto Intercom button for the new jack goes on |
|  | 4 Touch Administer. The consule beeps twice.  |
|  | 5 Leave administration mode.  |
| rogram a telephone using Centralized     | 1 Enter administration mode.  |
| Programming.                             | 2 Touch the Auto Intercom button or dial the intercom number for the<br>phone you want to program.  |
|  | 3 Touch Conference.   |
|  | 4 Program the telephone.  |
|  | 5 Touch Conference.   |
|  | 6 Leave administration mode.  |
| ock the programming function at a voice  | 1 Enter administration mode.  |
| erminal                                  | 2 Dial *89.   |
|  | 3 Touch the Auto Intercom button or dial the dial code of the voice terminal you are administering.   |
|  | Green light on = the voice terminal is locked<br>Green light off = the voice terminal is unlocked and can be programmed   |
|  | NOTE: Touch CONFERENCE to enable program mode lock systemwide.  |
|  | Touch DROP to disable program mode lock systemwide.   |
|  | 4 Touch Administer.   |
|  | The console beeps hoice.  5 Leave administration mode.  |
| Designate a voice terminal jack on the   | 1 Enter administration mode.  |
| ontrol unit for Busy Buster.             | 2 Dial *35.   |
|  | 3 Touch the Auto Intercom button or dial the intercom number for the<br>voice terminal jack to which you want the BB jack connected.  |
|  | 4 Touch Administer. The console beeps twice.  |
|  | 5 Leave administration mode.  |

| Administration Procedure   | Do This  |
|--|--|
| Designate a jack for the ASA features (jack                      | 1 Enter administration mode.   |
| 18 is the initial assignment).                                   | 2 Dial *59.  |
| No a continue more and   | 3 Touch the Auto Intercom button or dial the intercom number for the<br>jack you want to assign to ASA.  |
|  | 4 Touch Administer.  |
|  | The consule beeps twice.   |
|  | 5 Leave administration mode.   |
|  |  |
| Select the lines, except tie lines, that you                     | 1 Enter administration mode.   |
| want to add to or remove from CF/DXD,<br>RLA, or SA line groups. | 2 Dial the appropriate code:   |
| in generalizes to reference                                      | *51 for the CF incoming line group *52 for the CF outgoing line group *58 for the DXD incoming line group *54 for the RLA incoming line group *75 for SA incoming line group |
|  | 3 Touch line buttons until the green light next to it indicates its<br>assignment to the list.   |
|  | Green light on = line is assigned to the list Green light off = line is not assigned to the list   |
| See acterior   | 4 Touch Administer. The console beeps ficice.  |
| View restrict violation  | 5 Leave administration mode.   |
| Enable or disable the voice message for all                      | 1 Enter administration mode.   |
| lines in your CF and/or DXD incoming<br>line groups.             | 2 Dial *30.  |
| me groups.   | 3 Dial the appropriate code:   |
| number of the traver to  | 1 to turn on the Call Forwarding voice message<br>0 to turn off the voice message  |
|  | 4 Touch Administer. The console beeps twice.   |
|  | 5 Leave administration mode.   |
| Modify the voice message for one or more                         | 1 Enter administration mode.   |
| lines in your CF, RLA, SA and/or DXD incoming line groups.       | 2 Dial *50.  |
|  | 3 Touch the line button(s) for the line(s) on which you want to modify<br>the message.   |
| Many w   | 4 Dial the telephone number you want to include in the message.  |
|  | 5 Touch Administer.  |
| 173  | The consule beeps treuce.  |
|  | 6 Leave administration mode.   |

| Administration Procedure  | Do This   |
|---|---|
| Change the password for the CF or RLA feature.                          | <ol> <li>Enter administration mode.</li> <li>Dial *56.</li> <li>Dial an intercom number plus three digits.</li> </ol>   |
|   | NOTE: To invalidate any passwrod, dial the intercom number and 000.   |
|   | 4 Touch Administer.  The ronsole beeps troice. 5 Leave administration mode.   |
| -   | - the committee of the |
| Enter or change the telephone number to which you want calls forwarded. | Enter administration mode.     Dial *53.  |
|   | 3 Dial the new CF destination telephone number.   |
|   | NOTE: To remove a CF destination number without replacing it, touch Administer.   |
|   | 4 Touch Administer. The console beeps twice.  |
|   | 5 Leave administration mode.  |
| Reset the system.   | WARNING: This procedure erases all system administration and telephone programming, returns the system to its factory settings, and restores initial feature assignments to the phones. Use this feature only when you want to change the system radically.   |
|   | 1 Enter administration mode.  |
|   | 2 Dial *99198.  |
|   | The console beeps twice.  |
|   | 3 Turn the power off, wait 10 seconds, and then turn it on again.   |
|   | 4 Leave administration mode.  |
| Select a message to be played with System                               | 1 Enter administration mode.  |
| Answer.   | 2 Dial *77 followed by the desired option:  |
|   | 0 = no voice message<br>1 = "Please hold"<br>2 = "Please hold, your call will be handled momentarily"   |
|   | NOTE: If a line number is administered using *50, the following message is appended to the end of message 1 and 2: "You have reached" where is a number entered by the system administrator for Call Forwarding.  |
|   | 3 Touch Administer. The console beeps twice.  |
|   | 4 Leave administration mode.  |

| Administration Procedure  |   |  |
|---|---|--|
| Select number of rings before a call is<br>picked up by an ASA feature. | 1 | Slide the TP sv  |
|   | 2 | Dial *76 plus th<br>1 = DXD<br>2 = CF<br>3 = RLA<br>4 = SA |
| 190 (1904) Stage  | 3 | Dial the number<br>picks up the cal                        |
| to region world.  |   | NOTE: If the ma  |
| grown effective   | 4 | Touch Adminis The console bee                              |
|   |   |  |

Assign a template to a voice terminal.

### Do This

- witch to P and touch Administer.
- he ASA feature number:
- er of rings (between 0 and 9) before the ASA feature

umber of rings is set to 0, the voice terminal will not alls will be immediately answered.

eeps twice.

- 5 Leave administration mode by sliding the T/P switch to the center position.
- Enter administration mode.
- 2 Dial \*10 followed by the desired template:
  - 1 = Clear template
  - 2 Dialer template
  - 3 = Feature template
  - 4 = Receptionist Secretary template
- Touch the Auto Intercom button or dial the intercom number for the voice terminal being assigned the template.
- Touch Administer.

The console beeps twice.

Leave administration mode.

## Quick Reference Guide to Administration Codes

| Administration Code  | Other Numbers Buttons   | Feature  |
|--|---|--|
| *01 through *08  | 00  | Add (or remove) an Allowed List (1 through 8) to a voice terminal                                      |
| 01 through 10 plus up to<br>eight telephone number<br>digits | Add telephone numbers to an<br>Allowed List (1 through 8)   |  |
| *09  | 00  | Add (or remove) a Disallowed List to a voice terminal  |
|  | 01 through 10 plus up to 20<br>telephone number digits  | Add telephone numbers to a Disallowed List   |
| *2   | 0 through 9 (rings)   | Set the Transfer Return Interval for 0 through 9 rings.  |
| *4   | 0 through 8 (lines)   | Assign the number of lines in the system   |
| *10  | plus template option:  1 = Clear  2 = Dialer  3 = Feature  4 = Receptionist/Secretary and intercom number | Assign a template to a voice terminal  |
| *11  | the line button(s) for the line(s) on<br>which you want to reinstate<br>restriction                       | Reinstate restriction  |
| *12  |   | Turn off Music-on-Hold   |
| *13  |   | Set Music-on-Hold to low volume  |
| *14  |   | Set Music-on-Hold to medium volume (the default setting)   |
| *15  |   | Set Music-on-Hold to high volume   |
| *16  | Turn off background music   |  |
| *17  |   | Set background music to low volume   |
| *18  |   | Set background music to medium volume (the default setting)  |
| -19  |   | Set background music to high volume  |
| *30  | 1 = to turn on the Call Forwarding voice message 0 = to turn off the Call Forwarding voice message        | Enable or disable the voice message on one or more<br>lines in your CF and/or DXD incoming line groups |
| *31  |   | Set a line for immediate sing on a vales toroited  |
|  |   | Set a line for immediate ring on a voice terminal<br>with Button-Free Line Operation                   |
| *32  |   | Set a line for no ring on a voice terminal with<br>Button-Free Line Operation                          |
| *34  |   | Reassign lines to a voice terminal that has Button-<br>Free Line Operation                             |
| .*35   | jack number assigned to BB  | Set the control unit jack for the Busy Buster feature  |

| Administration Code | Other Numbers/Buttons   | Feature  |  |
|---------------------|---|--|--|
| *36                 |   | Set the system for toll prefix, a 0 or a 1   |  |
| *37                 |   | Set the system for area code only  |  |
| *38                 |   | Set the system for Touch-Tone dialing  |  |
| *39                 |   | Set the system for rotary dialing  |  |
| *50                 | the line button(s) for the line(s) on<br>which you want the modified<br>message<br>the telephone number you want to<br>include in the message | Modify the Call Forwarding, Direct Extension<br>Dialing, Remote Line Access, or System Answer<br>voice messages for one or more lines in your CF,<br>DXD, RLA, or SA incoming line groups  |  |
| *51                 | the line buttons of the lines you<br>want to add to or remove from the<br>group   | Select lines that will be included in the Call Forwarding incoming line group  |  |
| *52                 | the line buttons of the lines you<br>want to add to or remove from the<br>group   | Choose lines that will compose the Call Forwarding<br>outgoing line group  |  |
|                     | the new Call Forwarding<br>destination telephone number   | Enter or change the telephone number to which you want calls forwarded   |  |
|                     | the line buttons of the lines you<br>want to add to or remove from the<br>group   | Select lines that will be included in the Remote Lin<br>Access incoming line group   |  |
| *56                 | the ASA password (a MERLIN<br>Plus system intercom number plus<br>any three digits)   | Choose at least one valid 5-digit password so that<br>you can gain access to an outside line using Remo<br>Line Access or change the current call forward<br>number from a remote location |  |
| *57                 | line A or E only  | Assign Privacy to Line A or E  |  |
| *58                 | the line buttons of the lines you want to add to or remove from the group   | Select lines that will compose the Direct Extension<br>Dialing incoming line group   |  |
| *59                 | the intercom number for the jack<br>you want to assign to ASA   | Change the jack assignment of the ASA features<br>from jack 18, the initial assignment   |  |
| *60                 |   | Print a System Feature Report for the system and for every voice terminal in the system  |  |
| *61                 |   | Print a System Feature Report for the whole system   |  |
| *62                 | an intercom number of the voice terminal  | Print a System Feature Report for an individual voice terminal   |  |
| *63                 |   | Cancel a System Feature Report in progress and al<br>report requests   |  |
| *69                 | the outside line buttons  | Set Hold Disconnect Interval   |  |

| Administration Code | Other Numbers/Buttons  | Feature   |  |
|---------------------|--|---|--|
| *71                 | the intercom numbers   | Assign voice terminals to Group Page group 1  |  |
| *72                 | the intercom numbers   | Assign voice terminals to Group Page group 2  |  |
| *75                 | the outside line buttons   | Assign lines that can be answered by System<br>Answer   |  |
| *76                 | ASA feature number (1-4) and<br>number of rings (0-9)  | Set number of rings before an ASA feature picks u<br>a call   |  |
| *77                 | plus message option  0 = no message  1 = "Please hold"  2 = "Please hold your call will be answered momentarily" | Choose a message to be played with System Answer.   |  |
|                     | NOTE: You can also append<br>message 1 or 2 to the call<br>forwarding message modified with<br>the *50 code.     |   |  |
| *79                 | an intercom number of the voice<br>terminal  | Assign an alternate attendant position  |  |
| *80                 | a 2-digit month, a 2-digit day of<br>the month, and a 2-digit year   | Set the date for the Call Report and System Feat<br>Report feature  |  |
| *81                 | a 2-digit hour, a 2-digit minute of<br>the hour  | Set the time for the Call Report and System Feat<br>Report feature  |  |
| *82                 | an intercom number   | Set the control unit jack for the Call Report feats   |  |
| *83                 | 0 through 9 (minutes)  | Set the minimum call duration for the Call Report feature   |  |
| *84                 | 0 = no calls reported<br>1 = only outgoing calls reported<br>2 = outgoing and incoming calls<br>reported         | Set the type of calls that are printed on the call report   |  |
| *85                 | an intercom number   | Set the control unit jack for the System Feature<br>Report  |  |
| *88                 | an account number  | Assign System Speed Dial codes to account numbers for the Account Number Entry feature  |  |
| *89                 | the intercom number  | Enable or disable a person from changing<br>programmed features at his or her voice terminal  |  |
| *90                 | system speed dial code and<br>telephone number digits  | Assign System Speed Dial codes to outside<br>telephone numbers  |  |
|                     | a * plus the telephone number<br>digits  | Assign System Speed Dial codes to outside<br>telephone numbers that are private (only the dial<br>code is printed on the call report) |  |

| Administration Code | Other Numbers/Buttons                                 | Feature  |
|---------------------|---|--|
| *92                 | system speed dial code and<br>telephone number digits | Assign System Speed Dial codes with Restriction<br>Override to outside telephone numbers   |
|                     | a * plus the telephone number<br>digits               | Assign System Speed Dial codes with Restriction<br>Override to outside telephone numbers that are<br>private (only the dial code is printed on the call<br>report) |
| *99198              |   | Reset the system (for service personnel only)  |

# Quick Reference Guide to Voice Terminal Features

The table below lists the preassigned and programmable features available with the MERLIN Plus system voice terminal. Those features that can also be accessed by using a dial code are identified with a "†." Each feature is listed by function, followed by a brief description. For more information, read the individual feature descriptions in Section 5, "Reference."

| Feature Name                            | Description   | Preassigned<br>or<br>Programmable | Programming Code                            |
|---|---|-----------------------------------|---|
| PLACING CALLS                           |   |                                   | 20.00                                       |
| Line Request                            | Request the use of a busy line  | Preassigned                       |   |
| Line Select                             | Select a line other than the line<br>the system automatically selects<br>for you  | Preassigned                       |   |
| Touch-Tone Enable                       | Change from rotary to Touch-Tone signals during a dialing sequence  | Programmable                      | Dial *76                                    |
| ANSWERING CALLS                         |   |                                   |   |
| Auto Answer-All                         | Have optional equipment such as<br>a modem, answering machine, or<br>facsimile machine turn on when a<br>call comes in    | Programmable                      | Dial *75                                    |
| Recall                                  | Disconnect a call without hanging up  | Preassigned                       |   |
| Ringing Line<br>Preference              | Lift the handset and instantly be connected to the ringing line   | Preassigned                       |   |
| Voice Terminal Tones                    | Know by the ring, or by an announcement, the kind of call that is coming in   | Preassigned                       |   |
| CALL HANDLING                           |   |                                   |   |
| Call Pickup                             | Pick up a ringing call at another voice terminal  | Programmable†                     | Dial *85 (or dial *85 + an intercom number) |
| Conference                              | Have a telephone conference with several people at one time   | Preassigned                       |   |
| Drop                                    | Disconnect a person from a conference call  | Preassigned                       |   |
| Hands-Free Answer on<br>Intercom (HFAI) | Answer intercom calls without<br>lifting handset (on voice terminal<br>with an HFAI button)                               | Preassigned                       |   |
| Hold Retrieve                           | Return to a call on hold (for people with button-free operation)  | Programmable†                     | Dial *95*                                   |
| Transfer                                | Transfer a call to another voice terminal   | Preassigned                       |   |
| Exclusive Hold                          | Place a call on hold so that it can<br>only be picked up by the same<br>voice terminal. Requires a button<br>with lights. | Programmable                      | Dial *77                                    |

| Feature Name                           | Description   | Preassigned or<br>Programmable | Programming Code  |
|--|---|--------------------------------|---|
| CALL-HANDLING REP                      | ORTS  |                                | 1/-   |
| Account Number<br>Entry                | Enter an account number on a Call<br>Report (SMDR) by dialing the<br>number or a System Speed Dial<br>code          | Programmable                   | Dial *82  |
| Account Number<br>Entry with one touch | Enter an account number on a Call<br>Report   | Programmable                   | Dial *88 + an account number (up<br>to 16 digits)<br>or<br>Dial *95 + a System Speed Dial<br>code (60 through 89 or 900<br>through 999)   |
| QUICK DIALING                          |   |                                |   |
| Auto Intercom                          | Dial an intercom number with one touch  A button with lights is recommended   | Programmable                   | Dial *91 + an intercom number   |
| Last Number Dial                       | Dial with one touch the number that you last dialed   | Programmable†                  | Dial *73  |
| Outside Auto Dial                      | Dial an outside number with one touch   | Programmable                   | Dial *90 + an outside telephone<br>number, PBX, Centrex, or Custom<br>Calling feature code (up to 16<br>digits)   |
| Personal Speed Dial                    | Dial a number quickly by dialing a<br>code<br>(Does not require a button)   | Programmable                   | Dial a Personal Speed Dial code<br>(BIS-10: #01 through #24, BIS-22:<br>#01-#12) + one of the following<br>codes:<br>*90 + an outside number, or a<br>PBX, Centrex, or Custom Calling<br>feature code,<br>or<br>*88 + an account number |
| Busy Buster                            | Redial automatically up to 15 times<br>the most recent number you dialed<br>at approximately 30 second<br>intervals | Programmable                   | Dial *31  |
| Saved Number Dial                      | Save a number and dial it later   | Programmable†                  | Dial *74  |
| System Speed Dial                      | Dial a number quickly by dialing an administered code   | Programmable                   | Dial *95 + a System Speed Dial<br>code (60-89 and 900-999)  |

<sup>†</sup> You can also access this teature by using a dial code.

| Feature Name                  | Description   | Preassigned or<br>Programmable | Programming Code  |
|-------------------------------|---|--------------------------------|---|
| PAGING                        |   |                                | 5 10 0/1909/48-1031   |
| Group Page                    | Page a group of people through<br>their voice terminal speakers                                     | Programmable†                  | Dial *91 + one of the following<br>codes:<br>70 for all voice terminals<br>71 for Group 1<br>72 for Group 2   |
| Loudspeaker Page              | Page someone through a<br>loudspeaker system connected to<br>the page jack on the Memory<br>Module  | Programmable†                  | Dial *91 + 6  |
| PRIVACY                       |   |                                |   |
| Do Not Disturb                | Prevent calls from ringing while<br>you are busy<br>Requires a button with lights                   | Programmable                   | Dial *71  |
| Privacy                       | Prevent others from accidentally<br>joining your calls<br>Requires a button with lights             | Programmable                   | Dial *72  |
| LINE OPTIONS                  | 774 19830   |                                | to Clarydran de la constitución |
| Automatic Line<br>Selection   | Choose the order of the lines you will get when you pick up the handset                             | Programmable                   | Dial **, then touch the line<br>buttons in the preferred ringing<br>order   |
| RINGING OPTIONS               |   |                                |   |
| Ring Override                 | Have a line ring immediately even<br>though it is programmed to ring<br>after a delay or not at all | Programmable                   | Dial *78  |
|                               | Requires a button with lights   |                                |   |
| Personalized Ringing          | Choose a ringing sound you like for your voice terminal   | Programmable                   | No programming code necessary;<br>for programming information, see<br>Section 5, "Reference"  |
| Ringing Options               | Have lines ring immediately, ring after a delay, or not ring at all                                 | Programmable                   | Dial *35 for no ring<br>Dial *36 for delayed ring<br>Dial *37 for immediate ring  |
| Voice Announcement<br>Disable | Have intercom calls ring at your voice terminal   | Programmable                   | Dial *38 to enable voice<br>announcements<br>Dial *39 to disable voice<br>announcements   |

| Feature Name                                | Description   | Preassigned<br>or<br>Programmable | Programming Code   |
|---|---|-----------------------------------|--|
| INTEROFFICE COMMU                           | JNICATION   |                                   |  |
| Manual Signaling                            | Signal someone within your<br>MERLIN Plus system  | Programmable                      | Dial *6 + an intercom number                               |
| Message                                     | Know when the attendant has taken a message for you                                       | Preassigned                       | The attendant touches Send<br>Message + an intercom number |
| Send Message                                | Turn on the message light at<br>someone else's voice terminal<br>(attendant console only) | Preassigned                       | Touch Send Message + an intercom number                    |
| AUTOMATIC SYSTEM                            | ACCESS  |                                   |  |
| Call Forwarding/Direct<br>Extension Dialing | Have your calls forwarded when you are at a different location                            | Programmed                        | Dial *83   |
| Remote Line Access                          | Gain access to a company line even though you are at another location                     | Programmed                        | Dial *84   |
| System Answer                               | Have your calls answered<br>automatically and placed on hold                              | Programmed                        | Dial *58   |

## Quick Reference Guide to Programming Codes

| Programming Codes | Other Numbers/Buttons   | Feature                                    |
|-------------------|---|--|
| *6                | an intercom number  | Manual Signaling                           |
| *31               |   | Busy Buster                                |
| *35               |   | Ringing Options, no ring                   |
| *36               |   | Ringing Options, delayed ring              |
| *37               |   | Ringing Options, immediate ring            |
| *38               |   | Voice Announcement Enable                  |
| *39               |   | Voice Announcement Disable                 |
| *58               |   | System Answer                              |
| *70               |   | Auto Answer Intercom                       |
| *71               |   | Do Not Disturb                             |
| *72               |   | Privacy                                    |
| *73               |   | Last Number Dial                           |
| *74               |   | Saved Number Dial                          |
| *75               |   | Auto Answer-All                            |
| *76               |   | Touch-Tone Enable                          |
| *77               |   | Exclusive Hold                             |
| *78               |   | Ring Override                              |
| *82               |   | Account Number Entry                       |
| *83               |   | Call Forwarding/Direct Extension Dialing   |
| *84               |   | Remote Line Access                         |
| *85               | an intercom number  | Call Pickup<br>Call Pickup with One Touch  |
| *88               | an account number   | Account Number Entry with One Touch        |
| *90               | a telephone number  | Outside Auto Dial                          |
| *91               | an intercom number 70 = All voice terminals 71 = Group 1 72 = Group 2 | Auto Intercom<br>Group Page                |
|                   | 6   | Loudspeaker Page                           |
| *95               | a 2 or 3-character System Speed<br>Dial code (60-89, 900-999)         | System Speed Dial (programmed on a button) |
| *95*              |   | Hold Retrieve                              |

### Quick Reference Guide to ASA Features

The Automatic System Access features allow you more flexible use of your MERLIN Plus system and your outside lines. The ASA features include:

Call Forwarding (CF)

When the system is in CF mode, incoming calls on designated lines are connected to a Voice Synthesis Processor (VSP) in the control unit for a message. Meanwhile, the control unit calls the telephone number to which calls are being forwarded and uses the system's Conference feature to connect the incoming call to the outgoing call.

Direct Extension Dialing (DXD)

When you put the system in DXD mode, the control unit connects incoming calls on designated lines to the VSP for a message. Meanwhile, the caller dials the extension number (a 2-digit intercom number), and the control unit transfers the call to that extension.

Remote Line Access (RLA)

When the system is in RLA mode, you can call in from outside and use a password to gain access to one of the system's outside lines. You can also use the RLA feature to change the telephone number to which calls are being forwarded during CF operation. The VSP prompts you through the necessary procedures.

System Answer (SA)

When the attendant or the alternate attendant activates the System Answer button, selected incoming calls are answered automatically and placed on hold. The system administrator can choose to have the caller hear a special message before being placed on hold or, if connected to a compatible audio-source, a pre-recorded message or music can be played instead.

This quick reference helps you administer, program, and use these features more quickly. For more information about the ASA features, refer to Section "Reference."

## Quick Reference to Administration Procedures for ASA

| Administration Procedure  | Do This  |
|---|--|
| Designate a jack for the ASA features (jack<br>18 is the initial assignment). | <ol> <li>Enter administration mode.</li> <li>Dial *59.</li> <li>Touch the Auto Intercom button or dial the intercom number for the</li> </ol>  |
|   | jack you want to assign to ASA.  |
|   | 4 Touch Administer.  |
|   | The console beeps twice.   |
|   | 5 Leave administration mode.   |
| Assign an alternate attendant to handle<br>ASA calls.                         | 1 Enter administration mode.   |
| r book t Same of  | 2 Dial *79.  |
|   | 3 Touch the Auto Intercom button or dial the intercom number of the<br>voice terminal you want to assign as the alternate attendant console  |
|   | 4 Touch Administer.  The console beeps twice.  |
|   | 5 Leave administration mode.   |
| Select the lines, except tie lines, that you                                  | Enter administration mode.   |
| want to add to or remove from CF/DXD,<br>RLA, or SA line groups.              | 2 Dial the appropriate code:  *51 for the CF incoming line group  *52 for the CF outgoing line group  *58 for the DXD incoming line group  *54 for the RLA incoming line group  *75 for SA incoming line group |
|   | 3 Touch line buttons until the green light next to it indicates its<br>assignment to the list.   |
|   | Green light on = line is assigned to the list Green light off = line is not assigned to the list   |
|   | 4 Touch Administer. The console beeps twice.   |
|   | 5 Leave administration mode.   |
| Enable or disable the voice message for all                                   | Enter administration mode.   |
| lines in your CF and/or DXD incoming<br>line groups.                          | 2 Dial *30.  |
| Bearing.  | 3 Dial the appropriate code:<br>1 to turn on the Call Forwarding voice message<br>0 to turn off the voice message  |
|   | 4 Touch Administer. The console beeps twice.   |
|   | 5 Leave administration mode.   |

| Administration Procedure                    | Do This   |
|---|---|
| Modify the voice message for one or more    | 1 Enter administration mode.  |
| lines in your CF, RLA, SA and/or DXD        | 2 Dial *50.   |
| incoming line groups.                       | 3 Touch the line button(s) for the line(s) on which you want to modify<br>the message.                |
|   | 4 Dial the telephone number you want to include in the message.                                       |
|   | 5 Touch Administer. The console beeps twice.  |
|   | 6 Leave administration mode.  |
| Change the password for the CF or RLA       | Enter administration mode.  |
| feature.                                    | 2 Dial *56.   |
|   | 3 Dial an intercom number plus three digits.  |
|   | NOTE: To invalidate any password, dial the intercom number and 000.                                   |
|   | 4 Touch Administer.   |
|   | The console beeps twice.  |
|   | 5 Leave administration mode.  |
| Designate the number of rings before a call | 1 Enter administration mode.  |
| will be answered by ASA features.           | 2 Dial *76.   |
|   | 3 Dial the number that corresponds to the ASA feature you've selected:  1 = DXD 2 = CF 3 = RLA 4 = SA |
|   | 4 Dial 0-9 (for the number of rings).   |
|   | 5 Touch Administer.   |
|   | The console beeps twice.  |
|   | 6 Leave administration mode.  |
| Modify the voice message for one or more    | 1 Enter administration mode.  |
| lines in your CF, RLA, SA or DXD            | 2 Dial *50.   |
| incoming line groups                        | 3 Touch the line button(s) for the line(s) on which you want to modify<br>the message.                |
|   | 4 Dial the telephone number you want to include in the message.                                       |
|   | 5 Touch Administer. The console beeps twice.  |
|   | 6 Leave administration mode.  |
| Enter or change the telephone number to     | Enter administration mode.  |
| which you want calls forwarded              | 2 Dial *53.   |
|   | 3 Dial the new CF destination telephone number.   |
|   | 4 Touch Administer. The console beeps twice.  |
|   | 5 Leave administration mode.  |

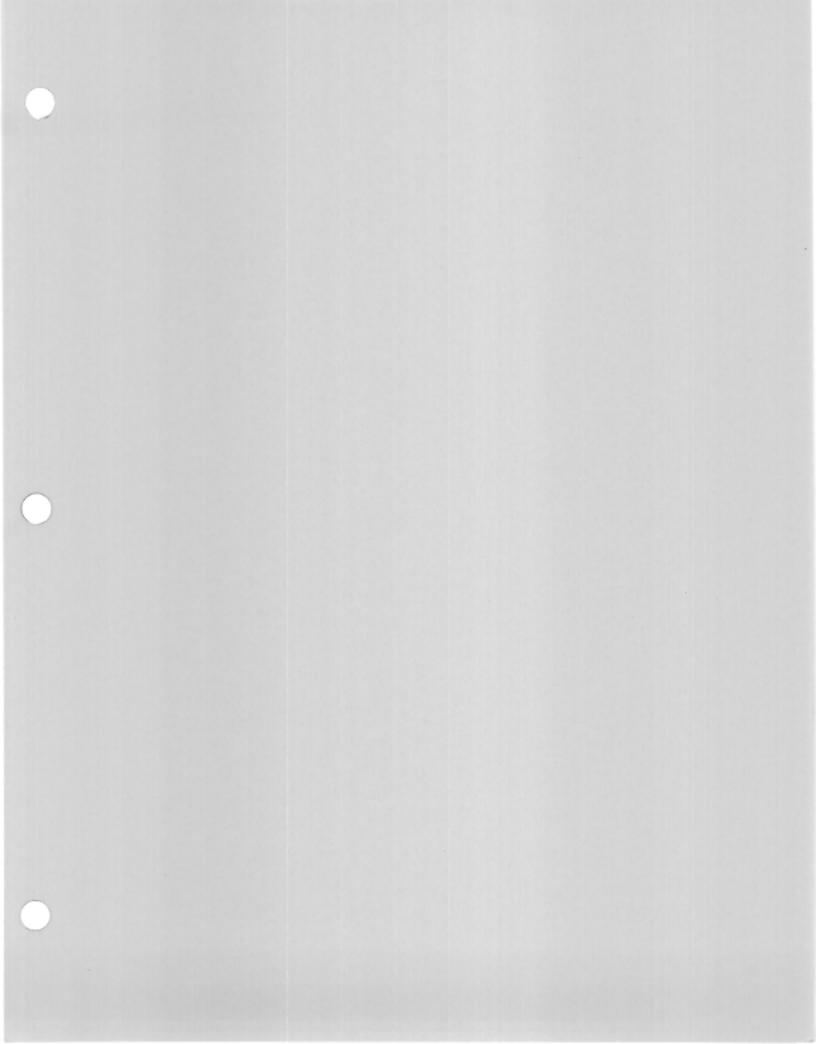
### Quick Reference Guide to ASA Voice Terminal Features

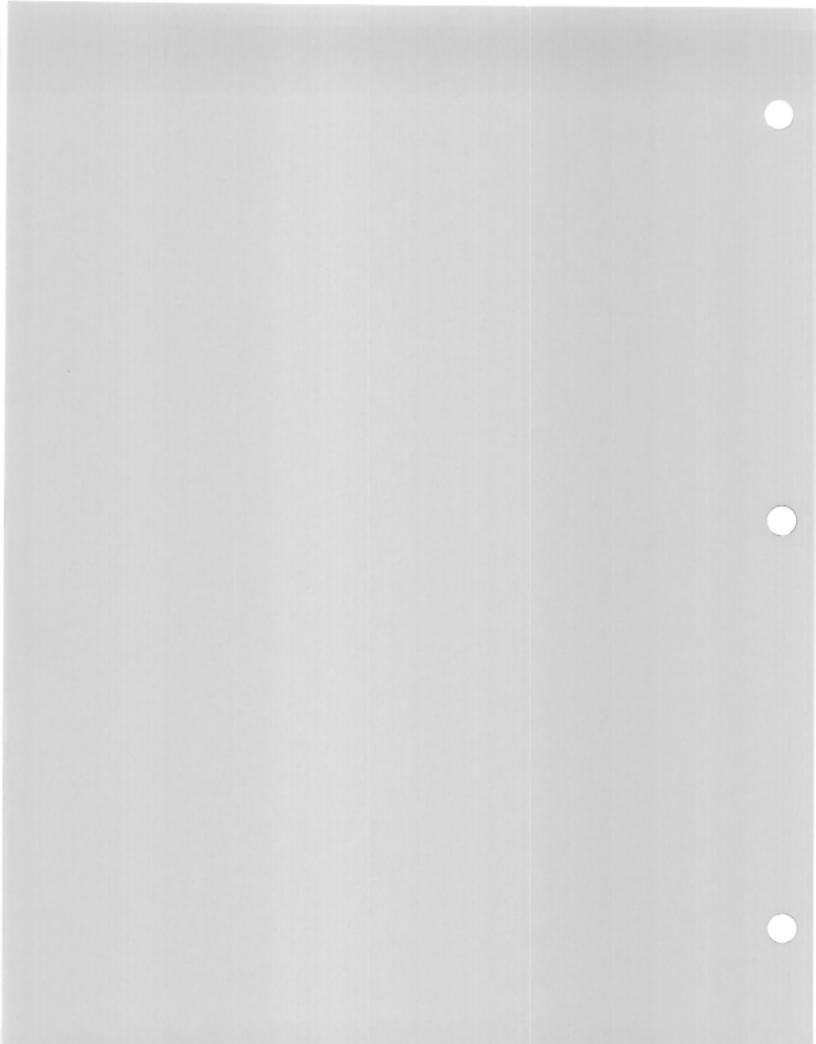
| Feature Name                                | Description   | Preassigned<br>or<br>Programmable | Programming Code |
|---|---|-----------------------------------|------------------|
| Call Forwarding/Direct<br>Extension Dialing | Have your calls forwarded when<br>you are at a different location/allow<br>caller to dial an extension directly<br>when in DXD mode | Programmed                        | Dial *83         |
| Remote Line Access                          | Gain access to a company line even though you are at another location   | Programmed                        | Dial *84         |
| System Answer                               | Have your calls automatically answered and placed on hold.  | Programmed                        | Dial *58         |

# Quick Reference Guide to Using the ASA Features

| Procedure  | Do This  |
|--|--|
| Using the CF/DXD Button  | <ol> <li>Repeatedly touch the CF/DXD button until the red and<br/>green light next to the button show the ASA mode you<br/>want the system to be in.</li> </ol>  |
|  | Red and green light off = the system is in the normal mode (calls coming into the system are handled normally)  Green light on = the system is in DXD mode  Red light on = the system is in CF mode  |
| Using the RLA button   | Touch the RLA button until the lights show the ASA mode<br>you want the system to be in.   |
|  | Green light on = the system is in the RLA mode<br>Green light off = the system is in normal mode   |
| Gaining access to a line in the RLA outgoing<br>line group from a remote location (with the<br>system in the RLA mode) | 1 With the system in RLA mode (the green light next to the<br>RLA button is on), dial the telephone number of a line in<br>the RLA incoming line group.<br>When the call is answered, the Voice Synthesis Processor (VSP)<br>begins prompting you through the procedure. |
|  | <ol> <li>Respond appropriately to the VSP prompts until you hear<br/>normal call-progress tones, such as ringing or the busy<br/>signal.</li> </ol>  |
|  | 3 Complete your call.  |
| Gaining access to an RLA line group from a<br>remote location (with the system in the CF<br>or DXD mode)               | Depending on whether the system is in the CF or DXD mode, dial the telephone number of a line in either the CF or DXD incoming line group. When the call is answered, the VSP gives the appropriate message.   |
|  | 2 As soon as the message ends, immediately dial the 3-character code, "#". The VSP begins prompting you through the RLA procedure.   |
|  | 3 Respond appropriately to the VSP prompts until you hear<br>normal call-progress, such as ringing or a busy signal.   |
|  | 4 Complete your call.  |
| Using the SA button  | Touch the SA button on either the attendant console or the alternate attendant console.      Touch the SA button on either the attendant console or the alternate attendant console.   |
|  | Green light on $= SA$ is on<br>Green light off $= SA$ is off   |

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# Section 7: Troubleshooting the System

| Troubleshoot | ing Procedures  | 7-1  |
|--------------|---|------|
|              | SYMPTOM: Can't place outside calls.                                     | 7-1  |
|              | SYMPTOM: A voice terminal doesn't ring.                                 | 7-4  |
|              | SYMPTOM: Trouble with voice terminal lights,                            |      |
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## Troubleshooting Procedures

As with any piece of equipment, there are times when some parts of your MERLIN® Plus Communication System may not be working properly. Rather than call someone immediately, you can often determine the cause of the problem yourself. Simply follow the step-by-step procedures outlined in this section. Then, with the problem identified, you can either correct the problem yourself or know from the tables who can help you correct it. If you're having trouble with your MERLIN Plus system, locate the symptom on the next few pages and perform the recommended action to isolate and correct the problem. The symptoms are listed on the contents page of this section.

If you are unable to identify a problem, perform the System Test found on the last page of this section before calling your equipment supplier for assistance.

### SYMPTOM: CAN'T PLACE OUTSIDE CALLS.

Possible Cause 1: Faulty accessory connected to voice terminal.

| Do This  | If                           | Then   |
|--|------------------------------|--|
| Disconnect the accessory from the malfunctioning voice terminal. | The trouble no longer occurs | Do not reconnect the<br>faulty accessory. Contact<br>your equipment supplier<br>to replace it. |
|  | The trouble still occurs     | Reconnect accessory and<br>go to Possible Cause 2.   |

Possible Cause 2: System incorrectly set to Touch-Tone or rotary (pulse) service.

| Do This   | If   | Then  |
|---|--|---|
| Check the instructions in<br>Section 3, "Administering<br>the System," to<br>determine whether your<br>system is set for Touch-<br>Tone or rotary (pulse)<br>service. | The system is set to<br>Touch-Tone and you<br>have rotary (pulse)<br>service | Set the system to rotary<br>(pulse). Doing so may<br>not solve this particular<br>problem, but will allow<br>you to move on to<br>Possible Cause 3. |
|   | The system is set to<br>rotary and you have<br>Touch-Tone service            | Set the system to Touch-<br>Tone.   |
|   | The system is set correctly  | Go to Possible Cause 3.   |

SYMPTOM: CAN'T PLACE OUTSIDE CALLS (CONTINUED).

Possible Cause 3: Call Restriction feature activated on malfunctioning voice terminal.

| Do This   | If   | Then   |
|---|--|--|
| Refer to Section 5, "Reference," to learn how to administer the Call Restriction feature. | The feature is activated<br>on the malfunctioning<br>voice terminals | Deactivate the feature<br>following the instructions<br>in Section 5, "Reference." |
|   | Feature is not activated   | Go to Possible Cause 4.  |

Possible Cause 4: Outside Auto Dial, Saved Number Redial or Last Number Redial are programmed or used incorrectly.

| Do This  | If   | Then  |
|--|--|---|
| See Section 5 "Reference" to make sure these features are programmed correctly and the MERLIN Plus System User's Guide to be sure the features are being used correctly. | Any of these features are programmed incorrectly                           | Program each feature<br>correctly and determine<br>whether this action solves<br>the problem. |
|  | Each feature is<br>programmed correctly<br>and the trouble still<br>occurs | Go to Possible Cause 5.   |

### Possible Cause 5: Faulty MERLIN system components.

| Do This   | If  | Then   |
|---|---|--|
| Try to place an outside call and an intercom call from several voice terminals. | The trouble appears only -<br>on intercom calls or the<br>trouble appears only on<br>one voice terminal                             | The trouble is caused by<br>a component in your<br>system. Go to the<br>troubleshooting<br>procedure for the<br>symptom, "Trouble with<br>voice terminal lights,<br>speaker, and ringing." |
|   | The trouble appears only<br>on outside calls from all<br>voice terminals, or the<br>trouble appears on only<br>some voice terminals | Go to Possible Cause 6.  |

### SYMPTOM: CAN'T PLACE OUTSIDE CALLS (CONTINUED).

Possible Cause 6: Faulty telephone company wiring.

| Do This   | 1f   | Then  |
|---|--|---|
| At the control unit<br>location, find the network<br>interface associated with<br>the outside line from<br>which you cannot   | The trouble appears on<br>the basic telephone and<br>the network interface<br>uses a line adapter              | Go to Possible Cause 7.   |
| make a call. Unplug the line cord from the network interface and, in its place, plug in a basic Touch-Tone or rotary telephone. (Do not use a MERLIN system voice terminal.) Try to place an outside call from the telephone. | The trouble appears on<br>the basic telephone, and<br>the network interface<br>does not have a line<br>adapter | Your outside line is faulty. Report the trouble to your local telephone company representative. |

### Possible Cause 7: Faulty network interface line adapter.

| Do This  | If   | Then  |
|--|--|---|
| Replace the network<br>interface line adapter<br>with another one. Plug<br>the basic telephone into<br>each of the | The trouble still appears on the basic telephone   | Your outside lines are faulty. Report the trouble to your local telephone company representative. |
| jacks, and try to place an<br>outside call.  | The trouble does not appear on the basic telephone | The old line adapter is faulty. Replace it with a new line adapter.                               |

### SYMPTOM: A VOICE TERMINAL DOESN'T RING.

## Possible Cause 1: Volume control is set too low. The THAC MOTRMYS

| Do This                                     | If                                    | Then                    |
|---|---------------------------------------|-------------------------|
| Slide the volume control to a high setting. | The voice terminal still doesn't ring | Go to Possible Cause 2. |

### Possible Cause 2: Voice terminal is administered not to ring.

| Do This   | 1f   | Then  |
|---|--|---|
| Refer to Section 3, "Administering the System," to learn how to administer ringing options. | The voice terminal is administered not to ring | Change the ringing option by following the instructions in Section 3, "Administering the System." |
|   | The voice terminal is programmed to ring       | Go to Possible Cause 3.   |

### Possible Cause 3: Do Not Disturb feature is activated.

| Do This   | If                           | Then   |
|---|------------------------------|--|
| Refer to Section 5, "Reference," to see if the Do Not Disturb feature is activated. | The feature is activated     | Deactivate the feature<br>following the instructions<br>in Section 5, "Reference,"<br>or see the "Do Not<br>Disturb" entry in the<br>MERLIN Plus System<br>User's Guide. |
|   | The feature is not activated | Refer to the troubleshooting procedure for the symptom, "Trouble with voice terminal lights, speakers, and ringing."   |

### SYMPTOM: TROUBLE WITH VOICE TERMINAL LIGHTS, SPEAKER, AND RINGING.

Possible Cause 1: Cable connection, power supply, or voice terminal.

| Do This   | If   | Then  |
|---|--|---|
| Slide the T/P switch on the side of the voice terminal to the T position and hold it there. | All the red and green<br>lights flash alternately<br>and a tone sounds<br>continually            | The voice terminal is<br>working property. Go to<br>Possible Cause 3.   |
|   | Some red and green<br>lights flash continually<br>and/or a tone sounds at<br>irregular intervals | The trouble is caused by either the voice terminal or the cable connection. Go to Possible Cause 2.   |
|   | None of the lights turn<br>on and a tone sounds<br>continually or irregularly                    | The trouble is either the control unit, the voice terminal, or the cable connection. Go to Possible Cause 2.  |
|   | The lights are dim   | The trouble is a faulty control unit or power supply. Contact your equipment supplier for assistance.   |
|   | The speaker is locked on   | The voice terminal T/P switch is set to P with Program Mode Lock active. Deactivate Program Mode Lock then set the T/P switch to the center position. |

### Possible Cause 2: Faulty voice terminal.

| Do This | If   | Then   |
|---------|--|--|
|         | The same trouble appears<br>on the working voice<br>terminal | The trouble is either in<br>the control unit or the<br>cables. Plug the<br>malfunctioning voice<br>terminal into its original<br>jack and go to Possible<br>Cause 3. |
|         | The trouble does not appear on the working voice terminal    | The malfunctioning voice terminal is faulty. Contact your equipment supplier for assistance.   |

SYMPTOM: TROUBLE WITH VOICE TERMINAL LIGHTS, SPEAKER, AND RINGING (CONTINUED).

Possible Cause 3: Cable connections.

| Do This   | 1f  | Then   |
|---|---|--|
| Step 1. Go to the control unit and locate the intercom jack for the malfunctioning voice  | The trouble occurs on the previously working voice terminal | The problem is caused by your control unit. Call your equipment supplier for assistance.   |
| terminal and an intercom<br>jack for a working voice<br>terminal. Unplug both<br>from the control unit and<br>replug each into the<br>other's jack. See if the<br>trouble now occurs on<br>the working voice<br>terminal.                           | The trouble no longer occurs on the working voice terminal  | The trouble is caused by a cable (there may be more than one) in the wiring run to the malfunctioning voice terminal. However, check the previous two causes for this symptom first. If the problem persists, go on to Step 2 of this cause.   |
| Step 2. Test each cable in the wiring run to the malfunctioning voice terminal by following this procedure:  a. Connect the wiring run to a functioning voice terminal.  b. Replace the first cable in the wiring run with one known to be working. | The trouble still occurs                                    | Check the connection; if the connections are correct and secure, remove the second cable in the wiring run and replace it with another cable that is known to work properly. If the problem still occurs, replace the third cable in the run and so on until all the cable in the run has been replaced. If the problem still persists, call your local equipment supplier for assistance. |
|   | The trouble no longer occurs                                | The cable was the source of the problem; discard the malfunctioning cable.   |

SYMPTOM: A VOICE TERMINAL RINGS CONSTANTLY.

Possible Cause: Voice terminal T/P switch isn't in the center position.

| Do This                    | If                                       | Then  |
|----------------------------|--|---|
| Check T-P switch position. | It is set at either T or P               | Slide it to the center position   |
|                            | The T/P switch is in the center position | Your voice terminal is faulty. Unplug it from the modular jack and try another voice terminal in its place. |

SYMPTOM: A VOICE TERMINAL SPONTANEOUSLY PLACES CALLS.

Possible Cause: Voice terminal is connected to the port that is administered for Busy Buster (BB).

| Do This   | 1f  | Then   |
|---|---|--|
| Check the control unit to<br>see if the voice terminal is<br>plugged into jack 18 (BB<br>default) or the<br>administered BB port. | Move the voice terminal to another port   | The voice terminal should<br>no longer spontaneously<br>place calls. |
|   | You need that jack for the voice terminal | Administer BB to a different jack.                                   |

SYMPTOM: ALL VOICE TERMINAL LIGHTS ARE OUT WITH NO DIAL TONE. Possible Cause 1: Control unit is not receiving power.

| Do This   | 1f  | Then   |
|---|---|--|
| Set the control unit power switch to Off and then back to On. Doing so resets the control unit. | The green power light on<br>the control unit is on and<br>the trouble remains | Call your equipment supplier for assistance.               |
|   | The green power light is<br>on and the trouble is<br>gone                     | The problem was corrected when you reset the control unit. |
|   | The green power light is off  | Go to Possible Cause 2.                                    |
|   | The red warning light on<br>the control unit is on                            | Go to Possible Cause 4.                                    |

### Possible Cause 2: Switch-controlled power outlet.

| Do This  | If   | Then  |
|--|--|---|
| Make sure the control<br>unit is not plugged into<br>an outlet controlled by a<br>wall switch. | The control unit is not<br>plugged into a switch-<br>controlled outlet                       | Go to Possible Cause 3.   |
|  | If the control unit is<br>plugged into a switch-<br>controlled outlet, turn on<br>the switch | See if you can plug the control unit into an outlet that is not controlled by a switch. |

SYMPTOM: ALL VOICE TERMINAL LIGHTS ARE OUT WITH NO DIAL TONE (CONTINUED).

### Possible Cause 3: Faulty power outlet.

| Do This                                    | If                            | Then                    |
|--|-------------------------------|-------------------------|
| Test the outlet by<br>plugging             | The appliance doesn't<br>work | The outlet is faulty.   |
| in an appliance such as a lamp or a radio. | The appliance works           | Go to Possible Cause 4. |

### Possible Cause 4: A module is loose.

| Do This  | If  | Then  |
|--|---|---|
| Set the control unit power switch to Off.  | All modules are secure<br>and the red warning light<br>goes off   | You've solved the problem.  |
| NOTE:<br>You will damage the<br>modules if you don't turn<br>the power off.  | All modules are secure<br>and the red warning light<br>remains on | Contact your equipment<br>supplier. When calling<br>your supplier, identify |
| Remove the top cover<br>and then remove and<br>replace each module,<br>making sure each is<br>securely seated in its slot. |   | your system as the<br>MERLIN Plus R2 system                                 |
| Replace the top cover and<br>fasten its screw. Set the<br>power switch back to On.   |   |   |

### SYMPTOM: PROBLEM WITH CALLS ON HOLD.

### Possible Cause 1: Call was inadvertently placed on exclusive hold.

| Do This   | If                               | Then  |
|---|----------------------------------|---|
| At the voice terminal that put the call on hold, touch the button of the held call. | The trouble no longer - appears. | The call was placed on Exclusive Hold.                                |
|   | The trouble still appears.       | Have another system<br>voice terminal pick up the<br>held call.       |
|   |                                  | Your voice terminal is<br>faulty, contact your<br>equipment supplier. |

Possible Cause 2: The Hold Disconnect Interval setting is different than the local telephone company's central office.

| Do This  | 1f   | Then  |
|--|--|---|
| Refer to "Hold Disconnect Interval" in Section 5, "Reference" for instructions to change the setting to 450 milliseconds (long) or 50 milliseconds (short) for each incoming line. | The Hold Disconnect<br>Interval is set to 450<br>milliseconds (long) and<br>callers are no longer<br>disconnected when<br>placed on hold                       | You've solved the problem.                      |
|  | The Hold Disconnect<br>Interval is set to 50<br>milliseconds (short) and<br>the light indicating a held<br>call no longer flashes<br>after the caller hangs up | You've solved the problem.                      |
|  | The light continues to<br>flash after a caller has<br>hung up  | Contact your equipment supplier for assistance. |

SYMPTOM: UNSUCCESSFUL ATTEMPTS TO USE BUSY BUSTER.

Possible Cause 1: Busy Buster is not connected to the port that is administered for it.

| Do This  | If   | Then  |
|--|--|---|
| Check the location of the<br>BB cord and compare its<br>jack number with the jack<br>number that was<br>administered for BB. | The cord is plugged into<br>a jack other than the one<br>administered for BB | Move the BB cord to the<br>administered jack or<br>administer the jack<br>assignment to the current<br>cord location. |

## Possible Cause 2: Returning Busy Buster call is not picked up quickly.

| Do This   | If  | Then  |
|---|---|---|
| Answer returning Busy<br>Buster calls promptly<br>when the voice terminal<br>alerts you, so that the<br>other party doesn't get<br>confused by the silence<br>and hang up | You are interrupted by other calls while waiting for a Busy Buster call | Activate the Do Not<br>Disturb feature so that<br>only transfer return calls,<br>which include Busy<br>Buster calls, will ring at<br>your voice terminal. |

Possible Cause 3: The Busy Buster number is in the same local exchange as the number you're calling from.

| Do This               | If                  | Then                        |
|-----------------------|---------------------|-----------------------------|
| Place the call again. | The number is busy. | Activate Busy Buster again. |

### VOICE TERMINAL FEATURE DOESN'T WORK.

SYMPTOM: PROGRAMMED Possible Cause 1: Feature is programmed or is being used incorrectly.

| Do This  | If   | Then  |
|--|--|---|
| Step 1. Review the programming instructions in Section 5. "Reference," to make sure the feature is programmed correctly, and the user instructions for the feature in the MERLIN Plus Sustem User's Guide to make sure it is being used correctly. | The feature is programmed correctly and the feature still doesn't work | Try the feature again. If<br>the problem persists, go<br>to Possible Cause 2. |
| Step 2.<br>Turn on the Call<br>Forwarding or Remote<br>Line Access feature   | The feature still doesn't<br>work                                      | Go to Step 3.   |
| Step 3.<br>Assign a CF destination<br>number   | The feature still doesn't<br>work                                      | Go to Step 4.   |
| Step 4. Assign lines to the incoming line group list and/or the outgoing line group list.  | The feature still doesn't<br>work                                      | Go to Step 5.  MOTRMY2  |
| Step 5. Remove the extra lines from either the incoming or outgoing line group list  | The feature still doesn't<br>work                                      | Go to Step 6.   |
| Step 6. Use the procedure, listed under "Custom Line Assignments" to remove "ghost lines" created by lines that do not have equipment connected to them  | The feature still doesn't<br>work                                      | Go to Step 7.   |
| Step 7, Unplug the voice terminal from the designated Automatic System Access (ASA) jack and plug the ASA cord into the jack instead   | The feature still doesn't<br>work                                      | Go to Possible Cause 2.   |

SYMPTOM: PROGRAMMED VOICE TERMINAL FEATURE DOESN'T WORK (CONTINUED).

Possible Cause 2: Control unit or voice terminal may be defective.

| Do This   | If                                | Then  |
|---|-----------------------------------|---|
| Step 1. Program the feature on a second voice terminal and try to use the feature.                        | The feature works correctly       | The trouble is either the voice terminal on which the feature did not work or the control unit. To determine which, go to Step 2. |
|   | The feature still doesn't<br>work | The problem is in the control unit. Contact your equipment supplier for assistance.   |
| Step 2.<br>Replace the first voice<br>terminal with a voice<br>terminal known to be<br>working correctly. | The trouble remains               | The problem is in the control unit. Contact your equipment supplier for assistance.   |
|   | The trouble no longer occurs      | The first voice terminal is defective. Replace it.  |

SYMPTOM: VOICE TERMINAL LIGHTS FLASH WHEN AN AUTOMATIC SYSTEM ACCESS FEATURE IS ACTIVATED.

Possible Cause 1: No lines are assigned to the ASA incoming or outgoing line group.

| Do This   | If                                | Then   |
|---|-----------------------------------|--|
| Refer to Section 5, "Reference" for instructions for administering incoming or outgoing lines for the ASA feature you want. | The feature works                 | Press the feature button<br>twice to stop the flashing<br>light. |
| ,   | The feature still doesn't<br>work | Go to Possible Cause 2.  |

Possible Cause 2: Only one line is assigned to the incoming and outgoing group and it's the same line for both.

| Do This   | lf                                | Then   |
|---|-----------------------------------|--|
| Incoming and outgoing<br>lines cannot be the same<br>line. See Section 5<br>*Reference' for<br>instructions for<br>administering two<br>separate lines. | The feature works                 | Press the feature button<br>twice to stop the flashing<br>light. |
|   | The feature still doesn't<br>work | Go to Possible Cause 3.  |

SYMPTOM: VOICE TERMINAL LIGHTS FLASH WHEN AN AUTOMATIC SYSTEM ACCESS FEATURE IS ACTIVATED (CONTINUED).

## Possible Cause 3: A voice terminal is plugged into the ASA jack.

| Do This  | lf .                            | Then   |
|--|---------------------------------|--|
| Move the voice terminal<br>or administer a new jack<br>assignment for the ASA<br>features. | The feature works               | Press the feature button<br>twice to stop the flashing<br>light. |
|  | The feature still doesn't work. | Go to Possible Cause 4.  |

### Possible Cause 4: The ASA jack isn't administered.

| Do This  | If                             | Then   |
|--|--------------------------------|--|
| Refer to Section 5, "Reference" for instructions for administering the ASA jack. | The feature works              | Press the feature button<br>twice to stop the flashing<br>light. |
|  | The feature still doesn't work | Contact your equipment<br>supplier.                              |

If you are experiencing a problem other than those described in the previous tests, try the following procedure before calling your equipment supplier.

SYMPTOM: SYSTEM NOT WORKING; TROUBLE NOT DESCRIBED IN ABOVE PROCEDURES.

Possible Cause 1: The control unit may need to be reset.

| Do This   | If                  | Then                    |
|---|---------------------|-------------------------|
| Set the control unit<br>power switch to Off and<br>then back to On. | The trouble remains | Go to Possible Cause 2. |

### Possible Cause 2: A module may be loose.

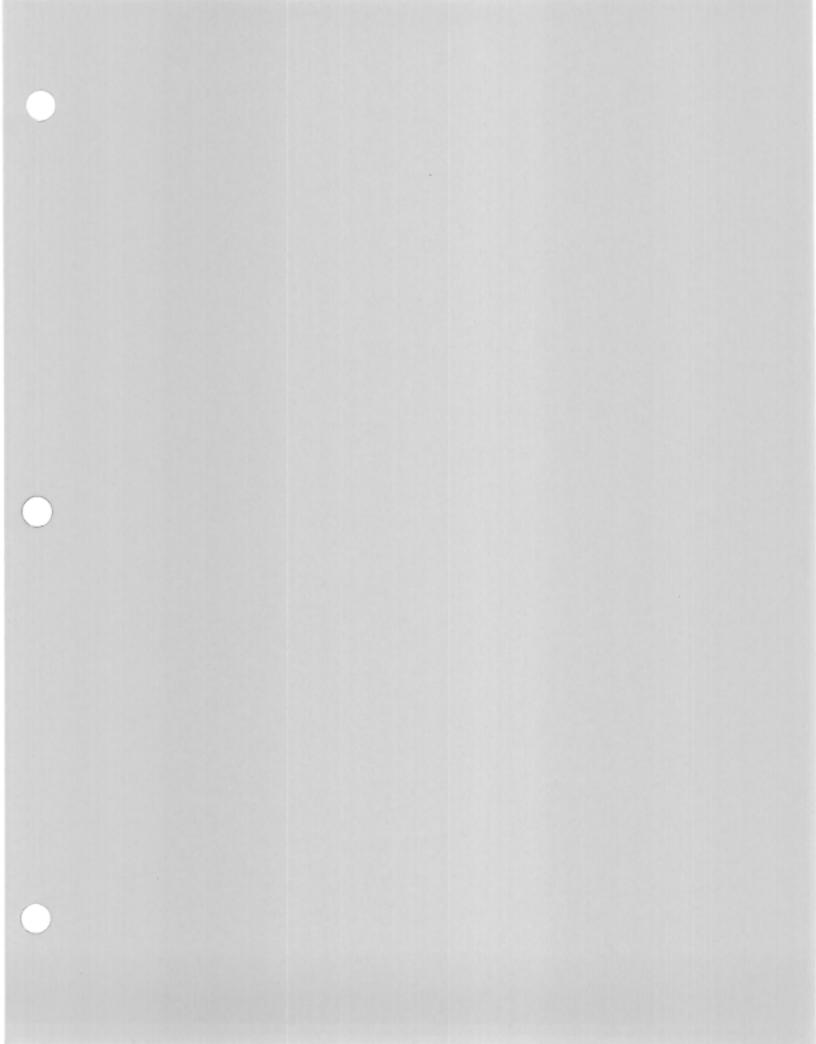
| Do This  | lf                  | Then  |
|--|---------------------|---|
| Set the control unit power switch to Off.  NOTE: The modules can be damaged if you don't turn off the power.  Remove the top cover, pull out each module and reinsert it so that it is securely seated in its slot.  Replace the cover and fasten its screw. Set the power switch to On. | The trouble remains | Contact your equipment<br>supplier for assistance.<br>When calling your<br>supplier, identify your<br>system as MERLIN Plus<br>R2 system. |

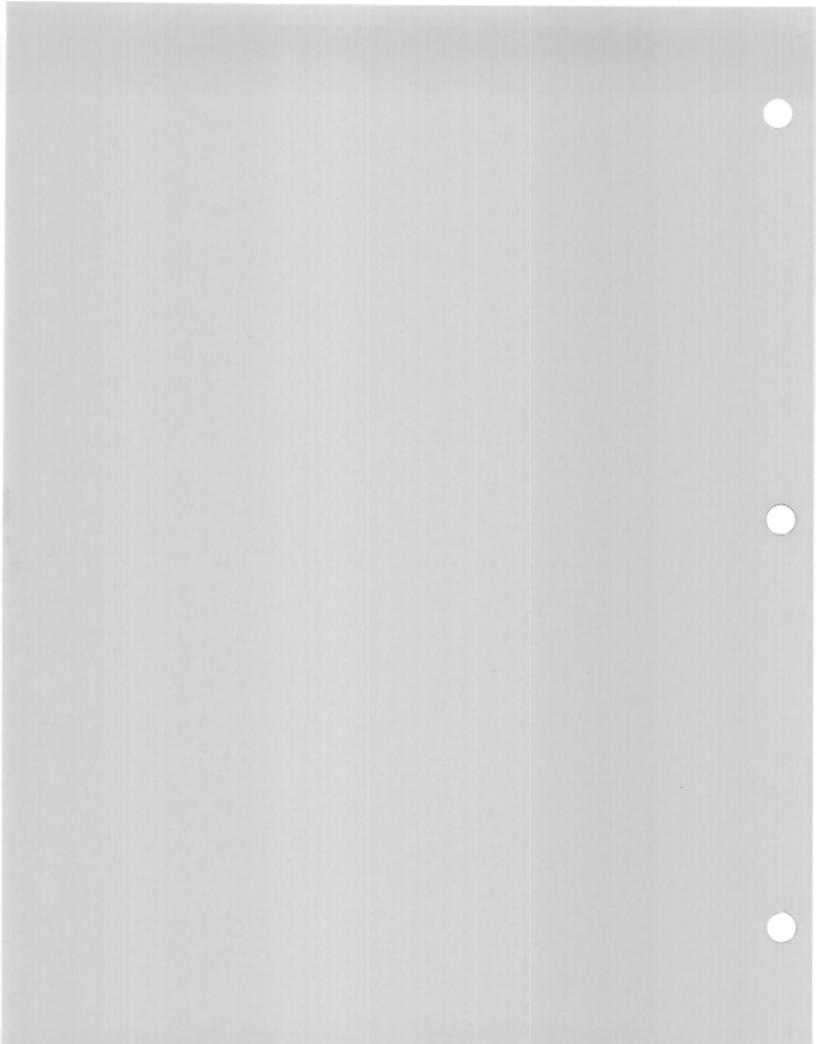
#### In the Event of a Power Failure

- The system administrator does not need to readminister the system after each power failure.
- The memory module has a four-day battery backup.
- The batteries are five-year life batteries and are not customer replaceable. Contact your equipment supplier when the system requires a replacement battery.

### In the Event of a Liquid Spill or Leak onto the Control Unit

- Turn off and unplug the control unit.
- Contact an AT&T service technician immediately.





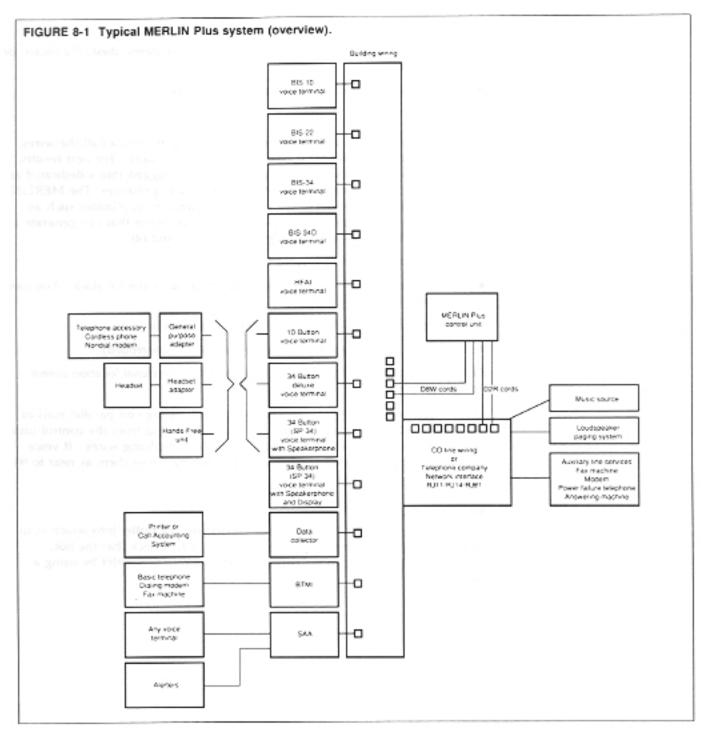
# Section 8: Installation

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# MERLIN Plus System Installation

### INTRODUCTION

This section contains technical reference material for a MERLIN® Plus system installer. For more detailed information on wiring, installing, adding accessories to, and upgrading your MERLIN Plus system, order the MERLIN Plus System Installation Manual from the AT&T Customer Information Center at 1-800-432-6600 and request document number 518-600-008. Figure 8-1 illustrates system connectivity.



### INSTALLATION REQUIREMENTS

Before you install the control unit, make sure that the installation area meets the following requirements.

#### Environment

The environment for the control unit should be as follows:

- Temperature: 40 to 104 °F (4 to 40 °C).
- Humidity: not to exceed 80 percent.
- Airborne Contamination: no exposure to corrosive gases, dust, chemicals, or similar substances.
- Ventilation: 1-inch space above and to the sides.

#### Wiring

A branch circuit is part of your building wiring and it includes all the wires, receptacles, and switches controlled by one circuit breaker. For best results, your MERLIN Plus system control unit should be plugged into a dedicated ac branch circuit, that is, one that is not used by other appliances. The MERLIN Plus control unit must never share a branch circuit with appliances such as heaters, refrigerators, coffee makers, or microwave ovens that can generate a large transient voltage when they are switched on and off.

The control unit should be located within:

- A single cord length of the network interface, allowing for slack. You can use up to 400 feet of DIW cable.
- 6 inches of the jack field that is centered beneath it.
- 5 feet of a grounded ac power source (not switch-controlled).

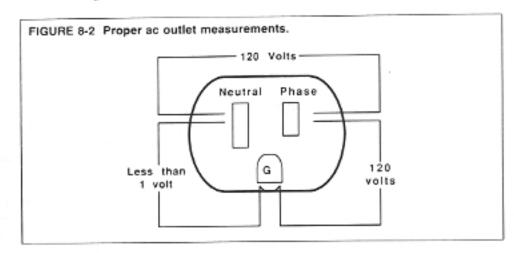
Also, a wiring run from the control unit to a voice terminal location cannot exceed 1000 feet.

> Caution: Since lightning can induce high voltage on parallel runs of wire that are close together, do not route wiring from the control unit to voice terminals along side CO line or ac building wires. If voice terminal wiring must cross CO or ac wiring, cross them as near to 90 degrees as possible.

#### AC Outlet Check

Check, or have checked by a qualified electrician, the outlet into which your MERLIN Plus system control unit will be plugged. Check that the hot, neutral, and ground wires are properly connected to the outlet by using a circuit tester.

The outlet can also be tested using a voltmeter by taking the measurements shown in Figure 8-2.



NOTE: If you discover that there is no current to the outlet or that the voltages are not correct, have the problem corrected by a qualified electrician.

The orange light on the power switch is an outlet test. The light will only come on when the switch is in the on position and indicates:

- The outlet is powered.
- Line and neutral are properly wired.
- An outlet ground is present.

If the orange light does not come on when the power switch is on, the outlet:

- May not be functioning
- May be miswired
- May be improperly grounded

#### Telephone Line Protection

Your local telephone company is required to provide lightning protectors where telephone lines enter your building. To protect your MERLIN Plus system, those protectors must be grounded to an approved ground. The following approved grounds are listed in order of preference:

- A building ground electrode system if one is available.
- Connect together as many of the following items as possible, using AWG No. 6 wire:
  - Metal underground water pipe
  - Metal building frame
  - Concrete encased electrode
  - Ground ring
  - Ground rod

In addition, the ground to the protectors must be bonded to the ac service ground. This bond is accomplished by connecting the two with AWG No. 6 wire.

The grounding and bonding of telephone line protectors is the responsibility of your local telephone company. However, protectors may be missing, not well grounded, or without the bond between the ac and telephone ground. This protection is best tested by a trained technician.

### CO Line Protector Tests

The following tests verify proper grounding and bonding of the CO line protector. These tests should be performed on every new installation. You will need a volt-ohm-milliammeter (VOM) capable of measuring 115 VAC.

**CAUTION:** This test procedure is for experienced technicians only—do not perform this or any other electrical measurement test unless you have the proper training and experience. You may prefer that a properly certified electrician perform this procedure.

**WARNING:** Hazardous voltages that may cause death or injury are present during the following tests. Use great care when working with ac power line voltages.

At the common equipment location:

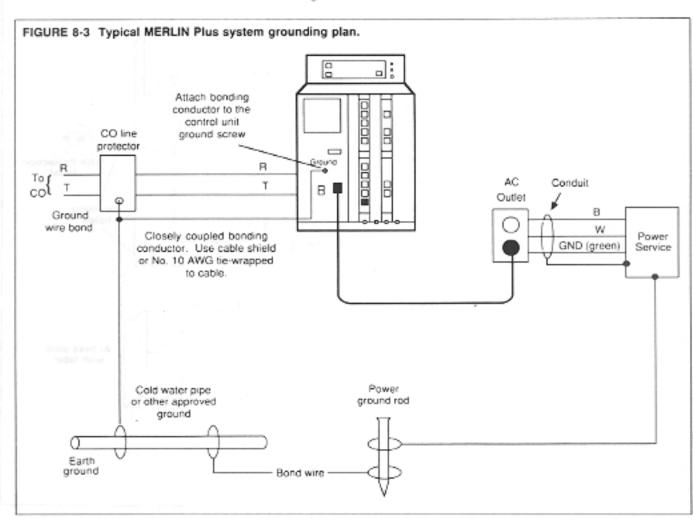
- 1 Visually verify that individual CO line protectors (carbon blocks, gas tubes, etc.) are in place.
- 2 Set the VOM to the scale on which you can read 1 VAC.
- 3 Measure voltage between the CO protector ground lug and the third wire ground of the nearest ac outlet on the branch circuit to be used by the control unit. This voltage should be less than 1 VAC.

WARNING: If the ac voltage reading is greater than 1 volt, do not measure resistance in the following step as this measurement could damage the VOM

- 4 If the voltage reading of step 3 is proper, set the VOM to the scale on which you can read resistance (ohms). Read the resistance between the same two points as in step 3. If the bonding of protector grounds is proper, the resistance should be less than 1 ohm.
- 5 If the resistance measurement is greater than 1 ohm, the ac outlet should be checked for proper ground. Use the procedure described above and refer to Figure 8-2.
- 6 If the ac outlet is improperly wired, an electrician should repair the outlet.
- 7 If the outlet is properly grounded, and either the resistance or voltage measurements of the protector is not of proper value, call the local telephone company Customer Operations Group (COG). Give the COG the name and address and request that the local telephone company properly ground and bond the CO line protector to the ac power.

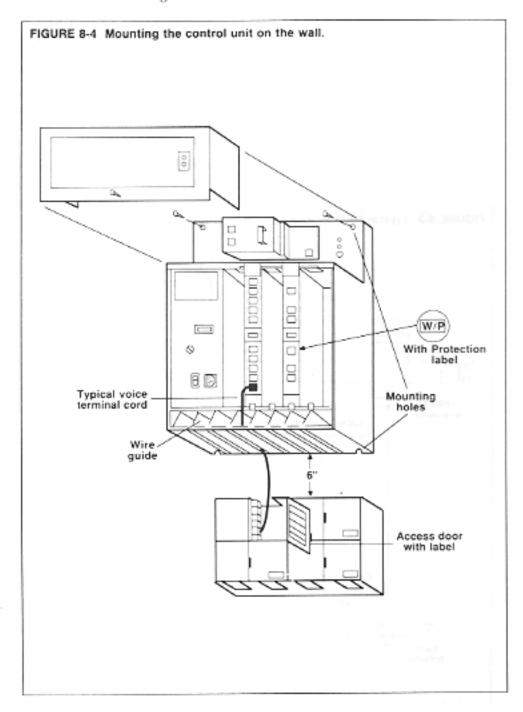
NOTE: If access to an ac outlet is not feasible, the following test can be used to check protector grounding. This test does not check for bonding of power and telephone company protector grounds.

- Connect the test set between the protector ground lug and the ring side of the CO line.
- 2 If the dial tone is present, the protector is grounded.
- If there is no dial tone, the protector is not grounded; notify the COG as stated in step 7, above.
- 4 One of the following methods is recommended for additional protection for those sites that are frequently exposed to lightning activity and have a history of damage to electronic equipment:
  - Install an AT&T model 147A (ac and CO line) protector. The 147A protector has a capacity of four lines. If you have five to eight telephone lines, use a model 146A CO line protector add-on unit.
  - Install a Coupled Bonding Conductor (CBC) according to Figure 8-3.



### Mounting the Control Unit

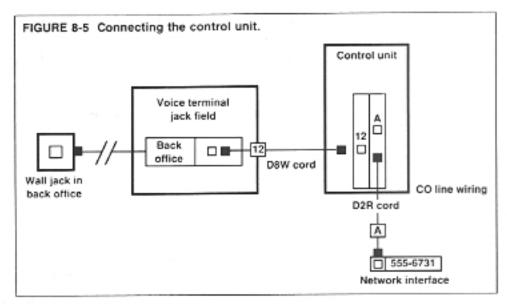
The control unit is designed to be wall mounted 6 inches above the jack field that is centered beneath it in two columns. The slots at the bottom of the control unit provide for simple, neat cord management as shown in Figure 8-4.



### CONNECTING THE CONTROL UNIT

Before connecting the control unit to the system (Figure 8-5), you must be sure of the following:

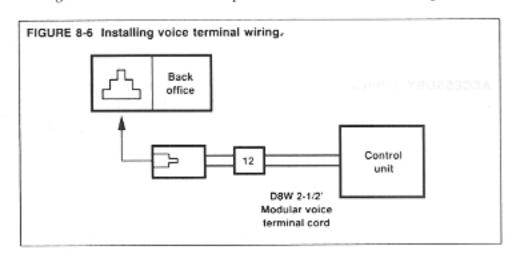
- The building wiring is completely installed.
- The jack field labels correspond with their distant end locations.
- The distant end labels correspond with the jack field labels (optional).
- The network interface labels have the correct telephone numbers.



Make sure the control unit power is off before connecting system wires. Then, refer to the System Configuration Form for the first step in each of the following procedures.

### Voice Terminal Wiring

See Figure 8-6 and follow these steps to install voice terminal wiring:



- Label one end of each D8W cord for each intercom number.
- Plug the unlabeled end of each intercom cord into the corresponding voice terminal jack of the control unit.

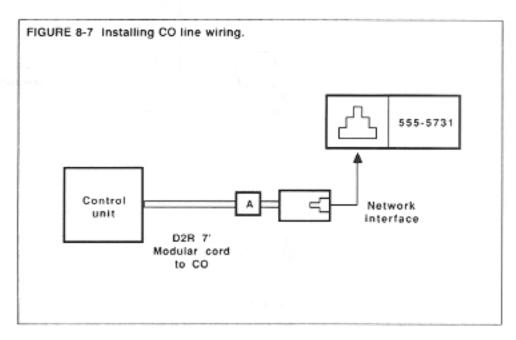


3 Plug the labeled end of each intercom into the appropriately labeled jack. in the apparatus box of the jack field.

### CO Line Wiring

See Figure 8-7 and follow these steps to install your telephone (CO) line wiring:

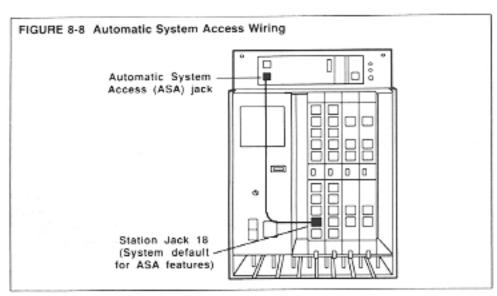
- 1 Label each line cord running from the network interface to the control unit (A through H).
- 2 Plug the unlabeled end of each line cord into the corresponding control unit line jack.
- 3 Plug the labeled end of each line cord into the appropriately labeled jack at the network interface.

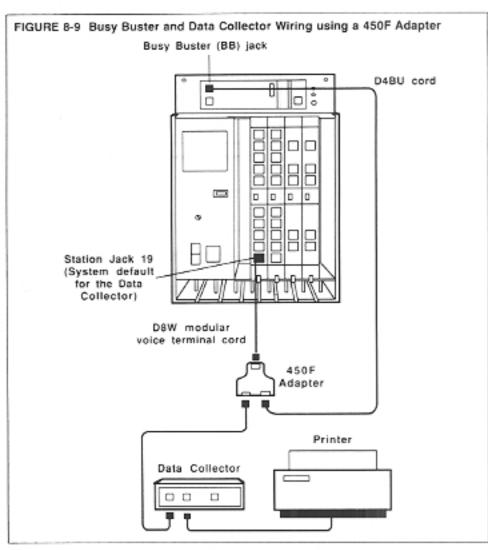


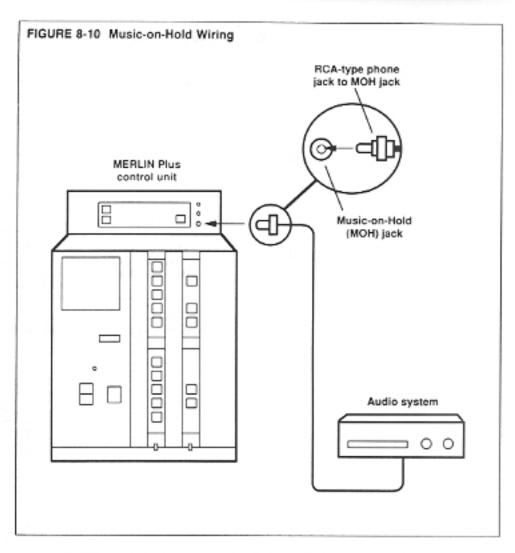
For future reference, you may want to make a copy of all the assignments that are labeled at the jack field.

#### ACCESSORY WIRING

The following figures show the proper connections for MERLIN Plus accessory features. Figure 8-8 illustrates the wiring for Automatic System Access features. Figure 8-9 shows how to wire Busy Buster and the data collector when using the 450F adapter. Figure 8-10 shows the wiring for the Music-on-Hold.







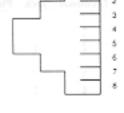
NOTE: Users of equipment that rebroadcasts copyrighted music or other material may be required to obtain a copyright license from a third party such as ASCAP or BMI.

TABLE 8-1 Wiring Parts Cross Reference

| PPEC     | Description    | Apparatus Code      | COMCODE   | SKU   |
|----------|----------------|---------------------|-----------|-------|
|          |                | Z122C Apparatus Box | 103980843 | 58080 |
|          |                | 2A Adapter Mounting | 103970562 | 58078 |
|          |                | Z601A Adapter       | 103946653 | 58082 |
|          |                | Z610A Adapter       | 103950556 | 58085 |
| 61400    | Net Intf Adptr | 267C Adapter        | 103715652 | 53300 |
| 2750-D14 | Net Brdg Adptr | 267A2 Adapter       | 103715082 | 51970 |
| 2750-D08 |                | 103A Conn Block     | 103104220 | 56390 |
| 2750-D07 |                | 102A Conn Block     | 103083200 | 56120 |
| 2,00     |                | 65B Faceplate       | 103658498 | 51930 |
| 61407    | NI/CU Mod      | D2R-29 Cord 7 ft    | 103732541 | 53800 |
| 01101    | Cord           | D8W-87 Cord 2.5 ft  | 104860148 | 57368 |
| 61208    | CU Jumper      | 953A Tool           | 103951588 | 51990 |
| 32910    | Cord           | (Spooled DIW Cable) | 403101140 |       |
| VE710    | Cbl Strp Tool  | (produce arrival    |           |       |
|          | 1000 ft 4-Pr   |                     |           |       |
|          | Cable          |                     |           |       |

TABLE 8-2 4-Pair Wiring for the MERLIN Plus System

| A-017-6/5 | ⊐,  | Signal      | Pair | Modjk<br>Pins | Modular<br>Cord<br>Wire<br>Colors | 102A<br>103A<br>Z601A<br>Term.<br>Stmp | DIW<br>Cable<br>Colors | 25-Pair<br>Cable<br>Colors | 25-Pair<br>Conn.<br>Pin No. | Paging<br>Jack | AUX<br>Jack  |
|-----------|-----|-------------|------|---------------|-----------------------------------|--|------------------------|----------------------------|-----------------------------|----------------|--------------|
|           | 3   | VIT<br>VIR  | 1    | 5<br>4        | GREEN<br>RED                      | 1 2                                    | W-BI<br>BLUE           | W-BI<br>BI-W               | 1<br>26                     | V1T<br>V1R     | V1R*<br>V1T* |
| - 3       | 5 6 | CT<br>CR    | 2    | 1 2           | BLUE<br>ORANGE                    | 3<br>4                                 | W-O<br>ORANGE          | W-O<br>O-W                 | 2<br>27                     |                |              |
|           | *   | -48V<br>GND | 3    | 3<br>6        | BLACK<br>YELLOW                   | 5<br>6                                 | W-G<br>GREEN           | W-G<br>G-W                 | 3<br>28                     | 1 2            |              |
|           |     | V2T<br>V2R  | 4    | 7<br>8        | BROWN<br>SLATE                    | 7<br>8                                 | W-BR<br>Brown          | W-BR<br>BR-W               | 4<br>29                     |                |              |



Note that the cord (e.g., D2R) used with AUX Service reverses these signals.

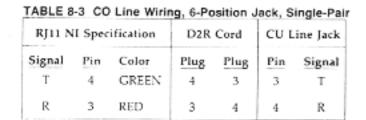


TABLE 8-4 CO Line Wiring, 6-Position Jack, Two-Pair

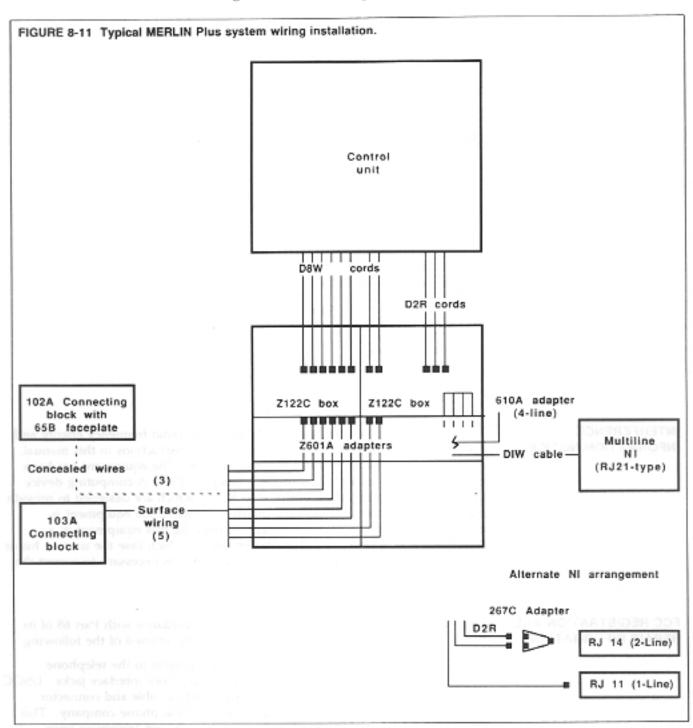
| RJ14 N   | VI Spec | ification       | 20     | 67A2 Adaş | ter    | 267    | C Adapt | er     |
|----------|---------|-----------------|--------|-----------|--------|--------|---------|--------|
| Signal   | Pin     | Color           | Plug   | Jack 1    | Jack 2 | Plug   | Jack    | Pin    |
| T1<br>R1 | 4<br>3  | GREEN<br>RED    | 4<br>3 | 4<br>3    | 4<br>3 | 4<br>3 | 1       | 4<br>3 |
| T2<br>R2 | 2<br>5  | BLACK<br>YELLOW | 2<br>5 | 2<br>5    | 2<br>5 | 2<br>5 | 2       | 4      |

TABLE 8-5 CO Line Wiring, 6-Position Jack, Multipair

| RJ21 NI Specification |       |          | CO Lin   | e Wiring          | Z610/    | A Adap   | pter |         |
|-----------------------|-------|----------|----------|-------------------|----------|----------|------|---------|
| Signal                | Color | Terminal | Conn Pin | 25-Pair<br>Number | Jack No. | Terminal | Jack | Pin No. |
| T1                    | B1-W  | 1        | 26       |                   | 4        | 1        |      | 4       |
| R1                    | W-B1  | 2        | 1        | 1                 | 3        | 2        | 1    | 3       |
| T2                    | O-W   | 3        | 27       |                   | 4        | 3        |      | 4       |
| R2                    | W-O   | 4        | 2        | 2                 | 3        | 4        | 2    | 3       |
| T3                    | G-W   | 5        | 28       |                   | 4        | 5        |      | 4       |
| R3                    | W-G   | 6        | 3        | 3                 | 3        | 6        | 3    | 3       |
| T4                    | BR-W  | 7        | 29       |                   | 4 .      | 7        |      | 4       |
| R4                    | W-BR  | 8        | 4        | - 4               | 3        | 8        | 4    | 3       |
| T5                    | s-W   | 9        | 30       |                   | 4        |          |      |         |
| R5                    | W-5   | 10       | 5        | 5                 | 3        |          |      |         |
| T6                    | B1-R  | 11       | 31       |                   | 4        |          |      |         |
| R6                    | R-B1  | 12       | 6        | 6                 | 3        |          |      |         |
| T7                    | O-R   | 13       | 32       |                   | 4        |          |      |         |
| R7                    | R-O   | 14       | 7        | 7                 | 4<br>3   |          |      |         |
| Т8                    | G-R   | 15       | 33       |                   | 4        |          |      |         |
| R8                    | R-G   | 16       | 8        | 8                 | 3        |          |      |         |

### TYPICAL MERLIN PLUS SYSTEM WIRING

Figure 8-11, below, shows a typical wiring installation for a MERLIN Plus System. Local telephone lines connect with system wiring at a network interface. Voice terminal wiring connects to the control unit through building wiring and a jack field. Table 8-6 lists the material needed for the sample configuration shown in Figure 8-11.



## TABLE 8-6 Material List for 8 Telephones and 3 Lines Voice Terminal Wiring

| Qty | Item                            |
|-----|---------------------------------|
| 3   | 102A Connecting Block (1 shown) |
| 3   | 65B Faceplate (1 shown)         |
| 5   | 103A Connecting Block (1 shown) |
| 1   | 1000 ft Cable Spool, D[W        |
| 2   | Z122C Apparatus Box             |
| 8   | Z601A Adapters                  |
| 8   | D8W Cords, 2.5 ft               |

#### Line Side Wiring

Option 1: Using Multiline Network Interface (RJ21):

| Qty                     | Item  |  |
|-------------------------|---|--|
| 3<br>1<br>span capacity | D2R Cords<br>Z610A Adapter<br>Z122C Apparatus Box |  |

Option 2: Using One-Pair/Two-Pair Network Interfaces (RJ11/RJ14):

| Qty    | Item                      |  |
|--------|---------------------------|--|
| 3<br>1 | D2R Cords<br>267C Adapter |  |

## INTERFERENCE INFORMATION NOTICE

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions in this manual, may cause interference to radio communications. The equipment has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when the equipment is operated in a commercial environment. Operating this equipment in a residential area is likely to cause interference, in which case the user, at his or her own expense, will be required to do whatever is necessary to correct the interference.

## FCC REGISTRATION AND REPAIR INFORMATION

This equipment is registered with the FCC in accordance with Part 68 of its rules. In compliance with the rules, you are to be advised of the following:

 Means of Connection: Connection of this equipment to the telephone network must be through several standard network interface jacks: USOC RJ11C or RJ14C, or a multiline network interface cable and connector USOC RJ21. You can order these from your local phone company. This equipment may not be used with party lines or coin telephone lines.

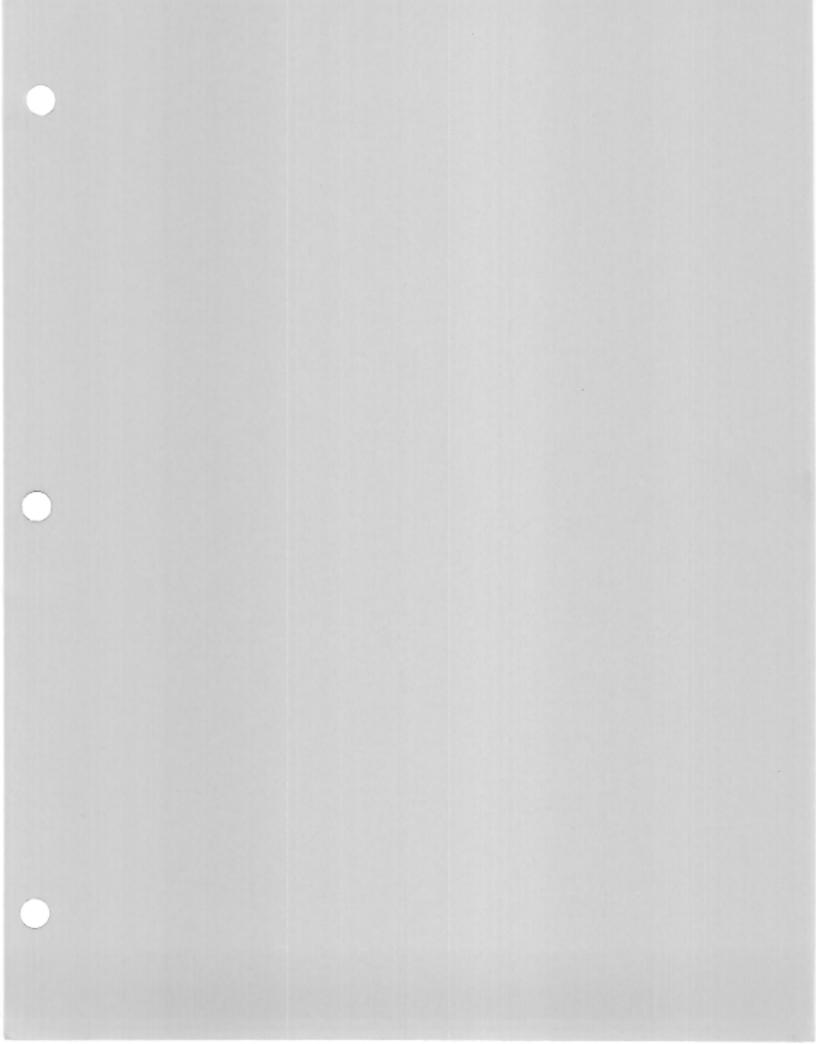
- 2 Notification of the Local Telephone Company: Before connecting this equipment, you or your equipment supplier must notify your local telephone company's business office of the following:
  - The telephone numbers you will be using with this equipment.
  - The registration number for the MERLIN Plus system:

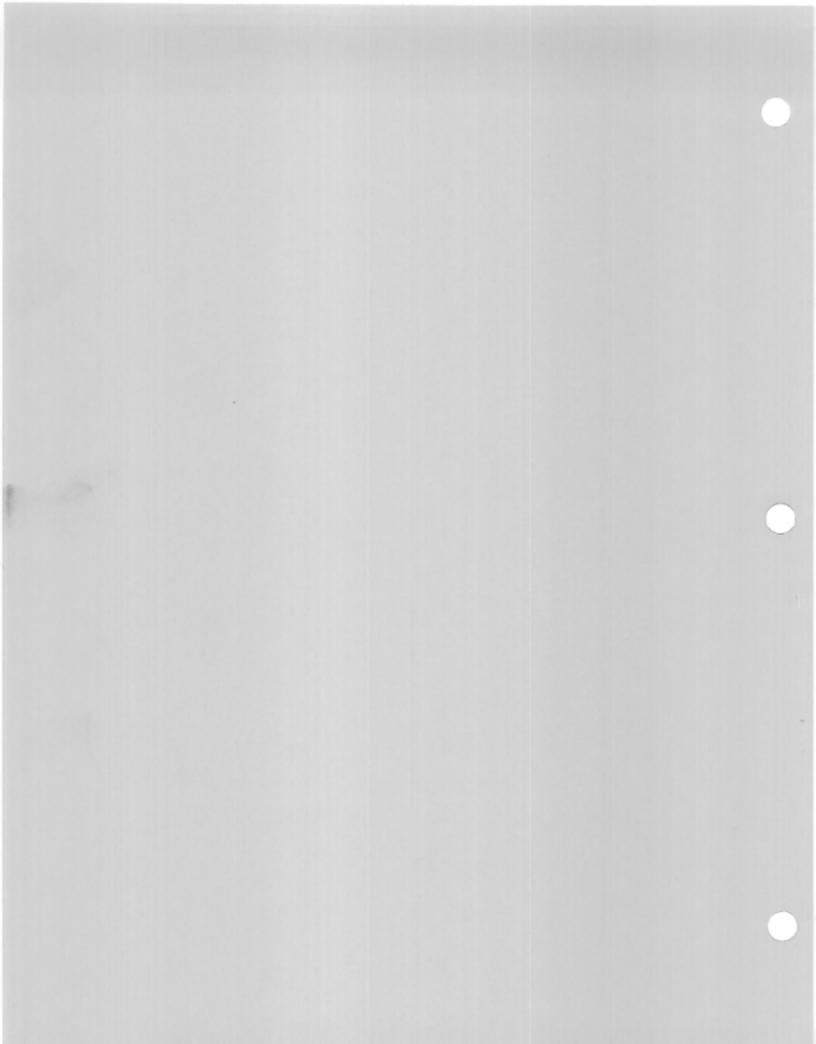
#### AS593M-13529-KF-E

The ringer equivalence number (REN) for the MERLIN Plus system:

You must notify your local telephone company if and when this equipment is permanently disconnected from the line(s).

- 3 Installation and Operational Procedures: The System Manual and the MERLIN Plus Installation Guide contain information about installation and operational procedures.
- 4 Repair Instructions: If you experience trouble because your equipment is malfunctioning, the FCC requires that the equipment not be used and that it be disconnected from the network until the problem has been corrected. Repairs to this equipment can only be made by the manufacturers, their authorized agents, or by others who may be authorized by the FCC.
- 5 Rights of the Local Telephone Company: If this equipment causes harm to the telephone network, the local telephone company may discontinue your service temporarily. If possible, they will notify you in advance. But if advance notice is not practical, you will be notified as soon as possible. You will also be informed of your right to file a complaint with the FCC.
  - Your local telephone company may make changes in its facilities, equipment, operations, or procedures that affect the proper functioning of this equipment. If they do, you will be notified in advance to give you an opportunity to maintain uninterrupted telephone service.
- 6 Hearing Aid Compatibility: The custom telephone sets for this system are compatible with inductively coupled hearing aids as prescribed by the FCC.





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