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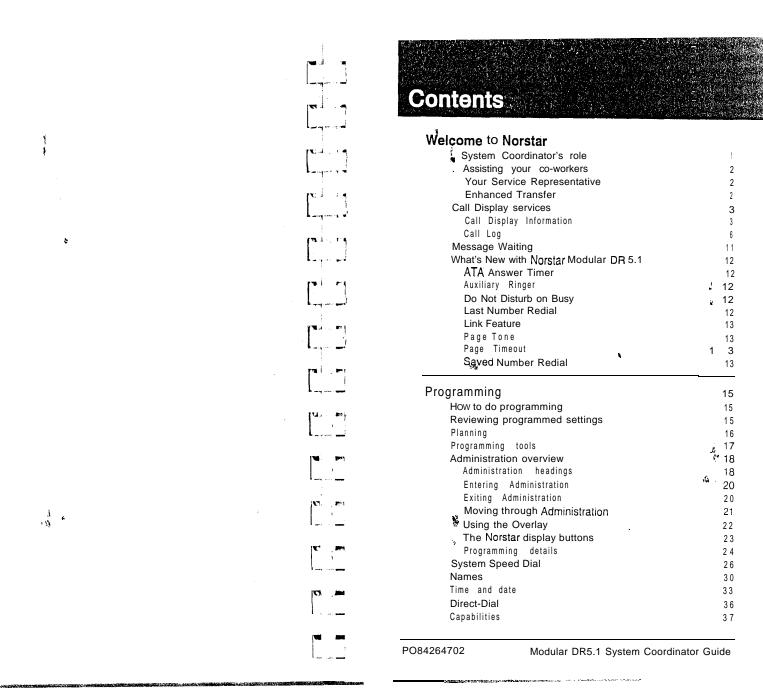
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'Modular DR5.1 System Coordinator Guide

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Welcome to Norstar

In addition to basic telephone service, your Norstar digital key system has many extra features that will greatly improve your office communications.

Please take the time to read this guide. It will help you to learn the'various tasks which a System Coordinator should perform. This guide also serves as a reference when you assist co-workers to become familiar with Norstar features.

When a telephone system is first installed, it takes a bit of time to settle into using new equipment. Norstar minimizes this orientation by providing straightforward features and simple instructions.

System Coordinator's role

The System Coordinator plays an important role in customizing Norstar to suit the organization and updating information as the office grows and changes.

Norstar can be customized at three levels:

Personal programming

Personal programming is done by individual telephone users who wish to personalize their Norstar telephones by programming features and telephone numbers onto specific memory buttons.

Administration programming is done by the

Administration programming is done by the System Coordinator, when you want to change various system-wide settings, as well as some specific settings for each line or telephone.

Configuration programming

Contiguration programming is usually done for you by the Installer or Service Representative when Norstar is being installed. Specific system-wide parameters are set up in Configuration.

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2 /Welcome to Norstar

Assisting your co-workers

It is human nature to ask someone how to do something rather than read a user guide. The System Coordinator may be asked to demonstrate to co-workers how to select and use Norstar features. To help you prepare for that possibility:

- Familiarize yourself with the procedures for using Norstar features. Examine the components of your Norstar system, identifying the buttons on the different types of Norstar telephones. Read the Telephone User Cards chapter of this Guide for more information on each telephone.
- Familiarize yourself with the various programming reminders provided at the end of the Programming chapter of this Guide. Distribute copies of these reminders to your co-workers after filling in information such as System Speed Dial numbers and names.

It is important for everyone in the office to know that you are the System Coordinator and to know when you are available for consultation. You may wish to schedule sessions for small groups or provide individual assistance to co-workers for programming features on their **Norstar** telephones.

Your Service Representative

Ask your Service Representative for the service department's telephone number, and write it down. If you have problems with your **Norstar** equipment, telephone your Service Representative. If you have problems with programming or using any of the features, first read the appropriate section of this Guide and try again before calling your Service Representative.

Enhanced Transfer

There is a new **procedure** for using the Transfer feature in this system. If you are upgrading a **Norstar** Modular system, be sure to familiarize yourself with the new procedure.

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ې ۲ Call Display services / 3

Call Display services, 🔬

Most public telephone companies offer Call Display services which provide information about an incoming call. The caller's name, telephone number and in some cases, long distance indication, can be shown on a telephone with a display. Your Norstar DR5 1system allows you to:

- view incoming call information as well as the Norstar line name that receives the call,
- keep a log of incoming call information and,
- view an integrated display that appears when you have received a message from either an internal Norstar user or a Voice Mail message from an external caller.
- Note: You can access Call Display information only if you subscribe to the services offered by your public telephone company, and if you have the appropriate hardware installed. Contact your Service Representative for more information.

Call Display Information

Call Display information may be shown on your telephone display when you answer an incoming call. In addition to the caller's name, telephone number and long distance indicator, if available, your Norstar system can display the line name that received the call.

In the case where several users share a line, only one telephone can be designated to automatically receive Call Display information when a call is alerting on that line. If the call is transferred or camped to another telephone, the Call Display information is automatically available to that telephone.

If a line is not administered to automatically deliver Call Display information to a telephone, the user can invoke the Call Information feature (see Telephone Features section) or answer the call to view the information.

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4 / Call Display services

Depending on your requirements, Call Display information presents several convenient options.

- When a caller is identified before the call is answered, you can answer using a personal greeting. You can also prepare yourself prior totanswering the call by retrieving any relevant documents, or otherwise orienting yourself to the expected discussion.
- The Long Distance indicator alerts you that an incoming call is long distance and may therefore have higher priority.
- If you are unable to immediately attend to an incoming call, you can use the calling information to make a quick note.
- You can shorten the interruption time of a call from a recognized person. For instance, you can quickly answer the call and let the party know that you are busy but will return the call soon.
- A telephone can be programmed to first view either the caller's name or number or line name. For example, an attendant might wish to see the calling number and area code first in order to transfer the call according to sales region. The salesperson's telephone'could display the caller's name first so they can answer with a personal greeting.

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Modular DR5.1 System Coordinator Guide

Uall Uispiay soi vigue , . - Call Display information allows you to answer calls on a priority basis. For example: If several calls are alerting at your telephone at the same • time, you can request information about the calls to decide which one may be more important. If you are already on a call, information about a second call starting to alert at your telephone can help you to. decide whether to answer the second call or remain connected to the first call. If you are in a meeting, the information associated with an incoming call can help you determine if the call is important enough to interrupt the meeting. · If you have several calls on hold and wish to identify the callers, you can view the Call Display information associated with each of the calls to help you determine which one you will respond to first. Programming tips In order for the designated telephone to automatically receive Call Display information, it must be programmed to ring for incoming calls on that line. Before programming Call Display information you may wish to consider the following: -- which individual would benefit the most from automatically receiving Call Display information on an alerting line? - how are calls routed and what information is the most, important to know before a call is answered? For instance, if certain lines are private to individuals, an attendant might wish to first view the line name to determine who the incoming call is for.

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Call Log

The Norstar Call Log feature uses incoming Call Display information to make a record of call details for follow-up. Call Log also records several other useful facts such as the time and date of the log entry, the number of repeated calls by the same caller and which telephone answered the call if it was subsequently rerouted and handled by someone else in the Norstar system.

When the volume of incoming calls exceeds the ability of employees to handle all calls, or when staff are unavailable to answer calls, Call Log provides a convenient means of capturing information about missed calls.

When connected to a call that has Call Display information, the Logit feature of Call Log can be used to provide a quick and accurate means of recording the caller's information for future use (see Telephone Features for more information).

Programming tips

Call Log space can be assigned to individual telephones according to how much space you wish to **allocate** to each user. You can also assign all or most Call Log space to a central answering position. For example:

In order to maximize the value of Call Logs and avoid confusion for the end user and their customers, it is important to consider the following when configuring Call Log:

#1 Application of Call Log

Does the user want to return customer calls, track the numbers of calls unanswered, keep a record of most commonly called **numbers**, etc.?

#2 Who is most interested in logging calls on a particular line?

For instance, dentists working in a clinic may have an individual line assigned to them but prefer that the receptionist handle all of the calls logged on their line.

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Call Display services 7 7

We strongly recommend that you limit the number of users logging calls for the same line, as this would be confusing. For example, if two users are logging calls for the same line, they do not know who the call was originally intended for nor are both ' Call Logs updated when one of the users returns a customer's call.' Potentially a customer could be called back twice.

There $\frac{1}{4}$ few situ&ions where the same call needs to be logged at more than one set.

Recommended configuration 1

The Central Answering Position (CAP) has all lines appearing at the CAP set. **Incoming** calls are first answered on the CAP set and then transferred to the required destination.

The Attendant wants to track all calls unanswered on the system, during working **hours** and after hours. The users want to capture in their Call Log, any calls which they did not answer at their set and be able to **return** those calls from the log.

The CAP position logs No one answered on all lines and the users log calls Unanswered by me. In this configuration the user will log calls transferred to them via intercom (I/C) from the attendant of another user, even though the administration setting is (Logging Set: N). Thus the entries in their Call Log are specifically meant for them.

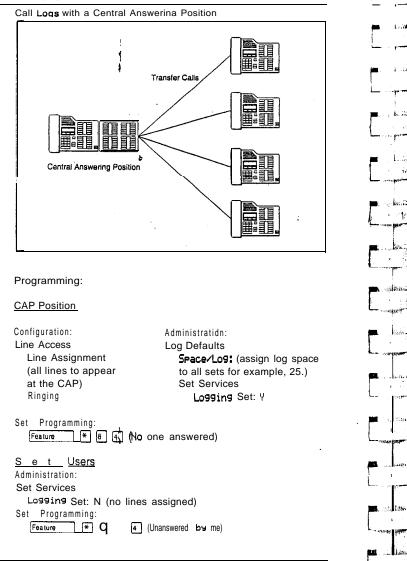
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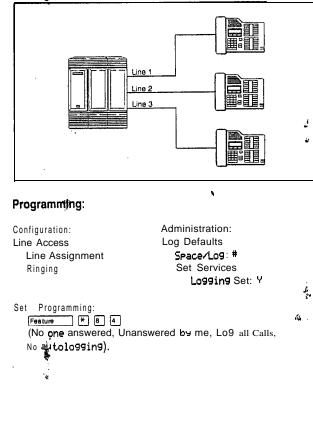
Modular 1X5.1 System Coordinator Guide



Call Display services / 9

Recommended configuration 2 Each Norstar user has a unique line appearing at their set. The users have a variety of requirements in terms of logging calls., . Using Feature * 8 Q the USERS can 'program logging capabilities specifically for their sets.

Call Logs with dedicated lines.



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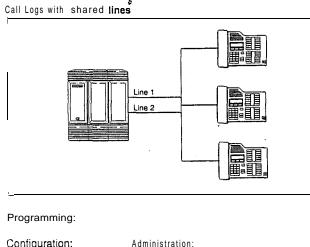
10 / Call Display services

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Recommended configuration 3

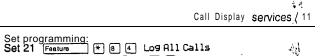
The Norstar system has lines 1 and 2 appearing on all sets. The supervisor wants to log all calls for lines 1 and 2 at his/her set in order to analyze call traffic. Two users have been selected to return unanswered customer calls. To avoid confusion when logging and sharing lines, one user logs No one answered calls on line 1 and a second user logs No one answered calls on line 2. This clearly identifies who is responsible for returning calls for each line and ensures that only one person calls the customer back.



Jonnguration:		Administration:
ine Access		Log Defaults
Line assignment		Space/Log: #
Ringing	۵	Set Services
		Show Set: 21 (supervisor's set)
		Logging Set:
		Lines 801 & 002 Y
		Show Set:22
		Logging Set: Line 001 Y
		Show Set: 23
		Logging Set: Line 002 Y

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🗋 街 🗿 🖌 No one answered

Note: For more information, see the Call Log Feature Card.

Feature

Message Waiting

Set 22 and 23

Norstar Message feature allows you to send and receive internal messages as well as maintain a record of your messages. If you have subscribed to Voice Mail Messaging (provided by your public telephone company), and visual message waiting indication is defined at your set, Message Waiting also informs you if you have messages at your Voice Message Center and allows you to:

- receive a visual indication that you have messages waiting,
- call your Voice Message Center to hear your messages and,
- clear the message waiting indication from your display.

Programming tips

In order $f\dot{\delta}$ a telephone to use this feature, it must have a line appearance and Message Waiting must be activated for that line by your public telephone company.

It is possible for two or more telephones to share a line appearance. You must determine if one, some or all of the users sharing a line will receive Message Waiting notification. If it is a sub-group, such as a sales team within a company, it may be appropriate to share the feature providing that the users have an agreed upon procedure for retrieving and deleting messages.

For firther information on Call Information, Call Log and Messages, see the Telephone features section. Programming actidhs are described in further detail in the Programming section.

12 /Call Display services

What's New with Norstar Modular DR 5.1

ATA Answer Timer

The Norstar system allows you to administer a delay between the last digit you dial on a device connected to an analog terminal adaptor (ATA) and when the KSU is ready to receive DTMF tone from the far end analog device. Up until now there was a fixed seven-second delay. Now you can shorten or lengthen the delay depending on the requirements of the device attached to the ATA. Facsimile machines and credit card sets, for example, require a three second delay.

Auxiliary Ringer

To resolve the problem of an auxiliary ringer indicating internally transferred calls, the Auxiliary ringer can be set by line and by telephone. The telephone setting when combined with the line setting allows you to chose if the Auxiliary Ringer (if installed) will ring when a call is sent to a specific telephone or on a specific line. For example, an incoming call on a line programmed to yes will ring the auxiliary ringer. Once the calf is answered and transferred within the system, the auxiliary ringer will not ring for a call sent to a telephone that has auxiliary ringer set to no.

Do Not Disturb on Busy

When you are busy on a call and a second call comes in, your telephone rings softly to alert you to the second call. If you find this second ring distracting, you can have the system prevent a second call from disturbing you by assigning Do Not Disturb (DND) on Busy to your extension.

Last Number Redial

Modular DR5.1 System Coordinator Guide

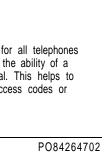
Up to now Last Number Redial was available for all telephones on a system wide basis. Now you can change the ability of a particular telephone to use Last Number Redial. This helps to ensure that only authorized users can view access codes or passwords.

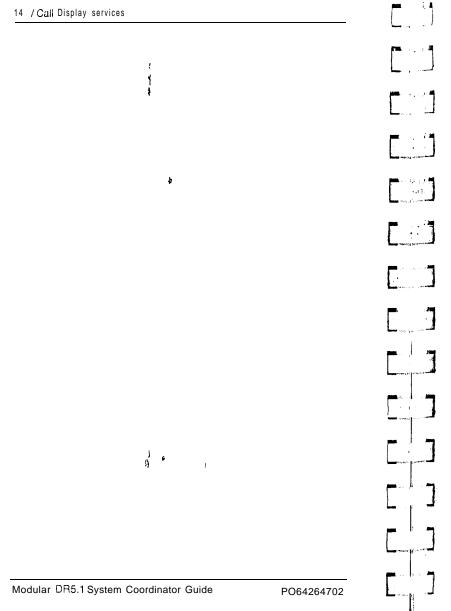
 $\frac{1}{2}$ Call Display services / 13 Link Feature You can change a telephone's ability to use Link (a host system' signaling option). Page Tone The tone'preceding a Page Announcement up to now was always on. Now it is possible to turn the Page tone off for all users. This is convenient if the office environment is often busy with Page Announcements. Page Timeout You can now specify the amount of time required before a Page Announcement session expires. Longer announcements can be completed without having to re-page the other party. This feature enhancement appears in Configuration programming under Cdl Handling. Saved Number Redial Up to now Saved Number Redial was available for all telephones

on a system wide basis. Now you can change the ability of a particular telephone to use Saved Number Redial. This helps to ensure that only authorized users can view access codes or passwords.

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Proof The system sufficient: the System probably or new b individual flexibility This char System S Time and programm procedur Personal Administ to assign to each t programm Telephor How to de The system S

Programming

The system comes programmed with defaultsettings that may be sufficient: initially. Administration programming is performed by the **System** Coordinator, and lets you change settings that **probably** have to be updated regularly because of staff turnover or new business contacts. You can also assign some features'to individual lines and telephones. This provides you with real flexibility in making your telephones work together.

This chapter contains detailed procedures for programming System Speed Dial codes, Names for lines and telephones, and Time and Date **information**. If you are new to Administration programming, you may want to get comfortable with these three procedures before attempting other procedures,

Personal programming does not follow the same procedures as Administration programming. Personal programming allows you to assign a particular function to some of the keys, and is unique to each telephone. For more information **on Personal** programming see the Feature programming description in the Telephone features chapter.

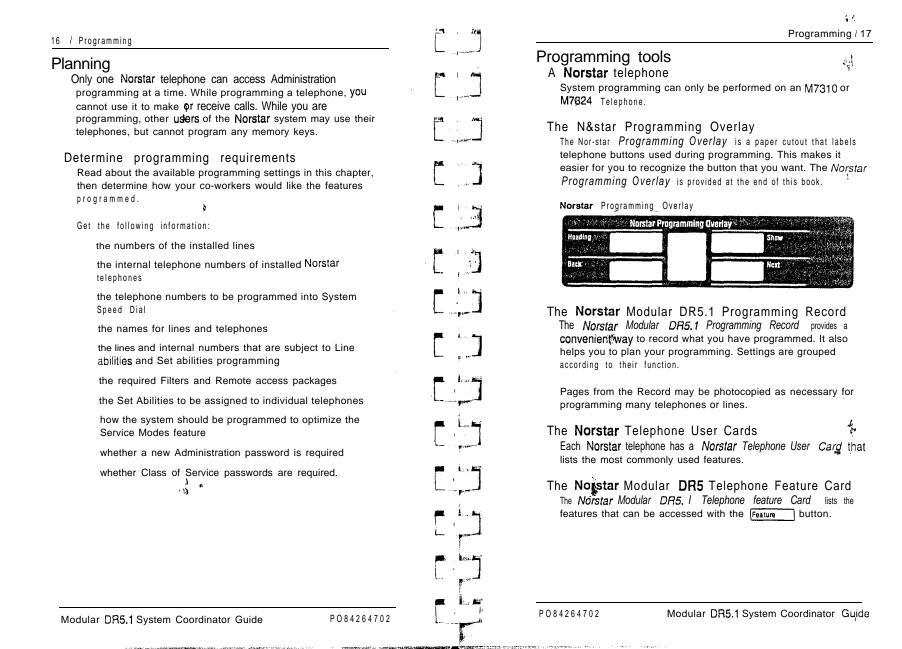
How to do programming

The system is programmed using a M7324 or M7310 Telephone. Use the buttons on the telephone to program a setting or to request a specific programming action.

Norstar guides you step by step on the telephone display while you enter programming, select and change what you want, and exit programming.

Reviewing programmed settings

The **Set*****Profile** and Line Profile features help you to check your programming by allowing you to review the settings. For more information, see the Telephone features chapter.



18 /Administration overview

Administration overview

Administration programming lets you change settings for the entire Norstar system, as well as settings for individual telephones and external lines.

Pre-programmed default settings may initially be sufficient for your needs. You can use Administration programming to customize your **Norstar** system by changing these default settings. In this section, **default** options are shown in bold type.

The defaults correspond to those assigned during Norstar installation. The option you see while programming may be different if that setting has been changed. If the display shows a line number or internal number during programming, an example IS shown in the Administration procedures.

The default Norstar internal numbers may vary depending on the installed Norstar system. The defaults are:

- two-digit internal numbers (beginning at 21) for non-expanded Norstar systems
- three-digit internal numbers (beginning at 221) for expanded Norstar systems.

Administration headings

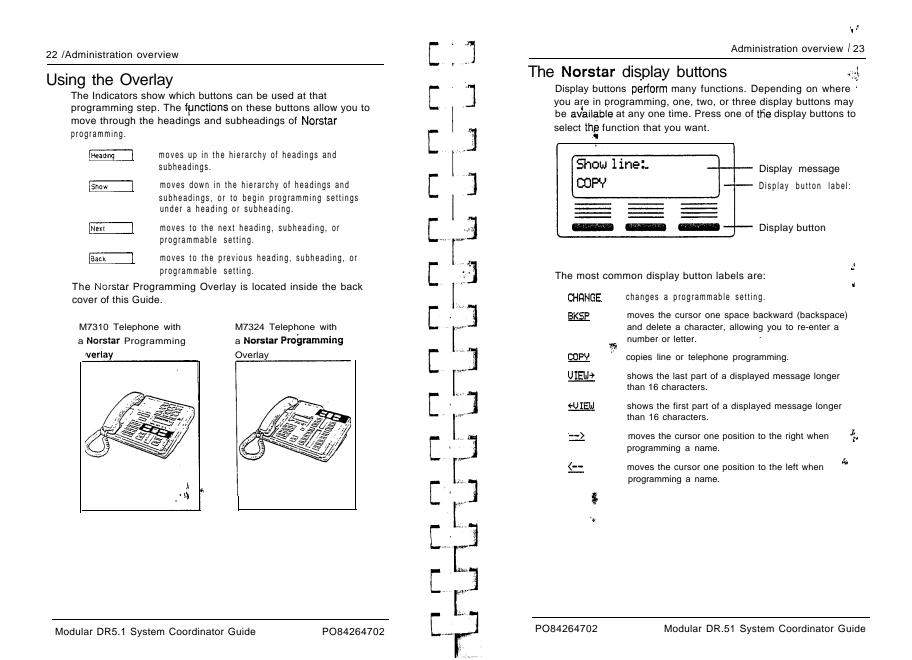
Headings and subheadings in Administration programming help you to keep track of where you are. An example of a heading is 1.595 speed dial for programming System Speed Dial. When you program a Systeni Speed Dial number, **Display digits** is displayed as a **subheading**.



	Administration overview	N:/
Administration program	ming has nine headings:	
ADMINISTRATION CODE I		
<u> </u>		
Password:		
<u> </u>		
1.5ys speed dial	System Speed Dial assigns a two-dig code (01-70) for fast dialing of up to 70 telephone numbers from any Norstar telephone.	jit
(2. Names	Names identifies external lines and telephones by name.	
3. Time and date	Time and Date adjusts the time and date displayed on each Norstar telephone.	2
4. Direct-Dial	Direct-Dial designates the telephones	; •
t	that can be reached by dialing a single digit.	;
5. Capabilities	Capabilities defines dialing filters,	
1 \$	remote access packages, line abilities and telephone abilities. It assigns restrictions and capabilities to Class of Service (COS) passwords, lo telephones, to lines and to line/telephone combinations.	
6. Service Modes	Service Modes controls how the Norstar system responds to calls, depending on the time of day.	4.9
7. Password	Password changes the password th controls access to Administration programming.	af
(8. Los Defaults	Log Defaults reallocates the Call Log space for all telephones in the system.	
9. Call Services	Call Services customizes the use of Call Display information at your telephone.	

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5.5 Administration overview / 21, 20 / Administration overview Moving through Administration Entering Administration To program a setting, you must first locate the correct heading. When your system is first installed, there is no password stored To do this, scan through the headings of Administration using-the in the Norstar system. Y qu are not prompted to enter a password Next u tand Bacos n s as you enter Administration for the first time unless your Customer Service representative has already programmed one To move through Administration headings: for your system. After entering Administration, the display shows To Enter Administration: 1.5ys speed dial. Release all calls on your telephone. 1. 1. Press Next 2. Enter the Administration access code: The display shows 2. Names. Feature * * 2 3 Q 4 6 which is also 2. Press Next Feature. The display shows 3. Time and date. 3. If the display changes to Password:, enter the Administratibn 3. Press Next password. (The password is not shown on the display as you The display shows 4. Direct-Dial. enter it.) 4. Press [Next]. If the password is correct, the display shows The display shows 5. Capabilities. 1.595 speed dial, and three triangular indicators > are shown on the vertical display. 5. Press Next The display shows 6. Service Modes. If the password is incorrect, the display does not change. 36 Press Next Check the password. Press RETRY and re-enter the 6. The display shows 7. Password. password. 4. Place the *Norstar* Programming *Overlay* over the buttons 7. Press (Next]. pointed to by the three triangular indicators, . . The display shows 8. Los Defaults. 8. Press Next Exiting Administration The display shows 9. Call Services. Norstar stores your changes automatically as soon as you alter 9. Press Next any settings; you do not need to "save" your changes. 54 The display shows 1.545 speed dial. 1. Press Ris. The display briefly, shows End of session. 2



24 /Administration overview

Programming details

Entering numbers

Numbers are entered from the Norstar telephone dial pad. The <u>BKSP</u> display button may be used to edit the number.

Line numbers must always be entered as a three-digit number. Line numbers from 10 to 99 must be entered with a leading zero (line 020, for example). Similarly, line numbers less than 10 must be entered with two **leading** zeros (line 002, for example).

Internal telephone numbers, also referred to as Directory Numbers (DNs), can be two- to seven-digits long on a non-expanded system, and three- to seven-digits long on an expanded system. The default DN length is two on a non-expanded system and three on an expanded system. The DN length can be changed by your Customer Service representative.

Viewing long telephone numbers

External telephone numbers can be up to 24 digits, but the telephone display is only 16 character spaces long. If you wish to see a previously programmed number that is longer than 16 digits, you must do the following:

Begin, for example, with 123456789012345...

The display shows only the first 15 digits. The three dots (...) at the end of the display indicate that more digits remain to be displayed for the external number.

1. To see the remaining digits, press <u>UIEW</u>.

2. To see the first 15 digits again, press <u>+UIEW</u>.

and the second s	Entering names
	Letters and numbers can be entered as part of a name for various settings. The method of entering a name is always the same. Begin with a setting that prompts you to enter a name. The display shows a cursor (.) to indicate where you can enter the next character. To enter a name:
	 Press the button on the dial pad with the printed letter or number that you want.
	 Each time that you press the button, a new character is shown on the display. For example, the button for the number 3 has the letters D, E, and F, where: D is shown after the first press E is shown after the second press F is shown after the third press 3 is shown after the fourth press D is shown again after the fifth press. (Letters are always shown in upper case.)
	 2. When the character that you want is displayed, press> or a to move the cursor to the next character position. O R If you want to correct a character entered by mistake, press or → until the cursor is positioned beneath the character that you want to correct. OR If you want to move the cursor back and delete a character, press BKSP.
	3. Repeat step 1 for the remaining characters.

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26 / System Speed Dial

System Speed Dial

The System Speed Dial programming section allows you to set the Speed Dial codes for external telephone numbers which the people in your office use most often, Use the Personal Speed Dial feature to program numbers used by only one or two people.

ADMINISTRATION CODE	2
	· •
Password:	
	,
1.595 speed dial	- Speed Dial number
t	Line selection
2. Names	Display digits
t 3. Time and date	Speed Dial name
3, Time and date	Bypass restriction
4. Direct-Dial]
	-
5. Capabilities	
6. Service Modes]
7. Password]
8. Log Defaults]
9. Call Services]

You can program 70 System Speed Dial codes ranging from #01 to #70.

4 6

Less J M	System Speed Dial (27
- port	System Speed Dial Number
June 200	System Speed Dial Number lets you assign a System Speed Dial telephone number to a two-digit code. The-System Speed Dial Number may contain 24 digits.
:	Begin with the display showing 1.595 speed dial.
	2. Press Show . The display shows Speed dial #:
Date ultra	Select the Speed Dial code you want to program: Press Next until the display shows the correct code. O R 3. Enter the Speed Dial code on the dial pad.
1	Press (show).
	Note: To assign default settings, press DEFAULT_ and then press Nextto go to the next Speed Dial code.
and a	4. Press <u>CHANGE</u> . For example, the display may show #95:
	5. Enter the new telephone number from the dial pad, including all digits such as an initial in or an area code that must be dialed to call the number manually. If you need to backspace the cursor, press the <u>BKSP</u> display button. For example, press in q in
	6. Press $\underline{0K}$ to store the System Speed Dial number.
	Programming hints A Host System Signaling feature code may be inserted into the System Signaling feature code may be inserted into the System Speed Dial number. Pause and Run/Stop each use one character position: and Link and Programmed Release each use two positions.
	For more information on using the features in System Speed Dial programming, see the Host System Signaling section in Telephone features.
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28 / System Sneed Dial	112	System Speed Dial / 29
 28 / System Speed Dial Line Selection allows ydu to specify the external line that is used for a System Speed Dish number. The options are the Prime line, an external line, or a line pool. After you have programmeda System Speed Dial number, press were and the display shows: Use Prime line OR Use line: 002, for example, if a line is already assigned OR OR colocide: 42, for example, if a line pool access code is already assigned. 1. To change the setting, press CHRNGE until the display shows the option to be programmed. 2. If you select a line number or a line pool access code, enter the digits from the dial pad. A line pool access code can be from one to four digits long. Display Digits Display Digits determines whether the telephone number is displayed when a System Speed Dial number is used, or whether a name associated with that number is displayed. After you have programmed a line selection for a System Speed Dial number, press Display digits. 1. Press CHANGE to change the setting. Options are Y (Yes) and N (No). 		System Speed Dial Name System Speed Dial Name allows you to assign a name to the stored System Speed Dial number. When the Display Digits setting is, "No", the programmed name is shown on the Norstar display when the System Speed Dial feature is used. The name can be up to 16 characters long. The default name is the System Speed Dial number; for example, Sus Srd Dial 02 for System Speed Dial code 02. After programming Display Digits to "No", press here in and the display shows Name. 1. Press [Show). The display shows the assigned or default name. 2. Press CHANCE. 3. Enter the first character of the name by pressing the appropriate dial pad button one, two, three, or four times. For more information, see the section in this chapter entitled Entering names. 4. To move the cursor to the next position, press

30 / Names

You can assign names to identify external lines, target lines and your co-workers' telephones. During a call, the **name** (if programmed) is shown on the telephone display instead of the external line number or internal telephone number of the caller.

	\$
Password:	
1.Svs speed dial	
2. Nanes	Telephone names
t	Line names
3. Time and date	
ł	
4. Direct-Dial	
5. Capabilities	
-	
6. Service Modes	
7. Passuord	
I	
8.Log Defaults	
9. Call Services	
·····	

Programming hints

Telephone names and line names can contain both letters and numbers, but cannot be longer than seven characters. The # and * symbols cannot be used.

You can give the same name to two or more telephones, or to a telephone and a line in your system. To avoid confusion, **you** should avoid such duplication. Use initials, abbreviations, or even nicknames to give each telephone a unique name.

Two lines cannot have the same name. If you enter a line name which has already been used, you hear an error tone, and the display shows Use unique name.



Names / 31

4

Telephone Names

Personalize your office communication by a&signing names to the **telephones** in the **Norstar** system. A telephone's default name is its **internal** number, for example, 227.

Begin with the display showing 1.545 speed dial.

- Press (<u>N e x t</u>). The display shows 2. Names.
- 2. Press <u>Show</u> twice. The display shows Show set:..
- Enter the internal number of the telephone.
 OR
 Press [Next] for the name of the telephone with the first, internal number.
- Press. <u>CHANGE</u>. The name is removed from the display, and a cursor is shown.
- 5: Enter the first character of the name by pressing the appropriate dial pad button one, two, three, or four times. For more information, see the section in this chapter entitled Entering names.
 - Note: Press Next to restore the default name and go to the next internal number.
- 6. Press $\xrightarrow{-->}$ to move the cursor to the next position. Continue entering characters.

Program&g hints

If Automat& Telephone Relocation is turned ON, the name and internal number of a telephone are saved if the telephone is moved within your system.

Time and date (33

Time and date

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Time and date programming allows you to set the time and date which i&shown on the display when a telephone is not in use. As with any clock, this needs to be done every time that your office has a power failure.

AL	ADMINISTRATION CODE
	Password:
L	1.5vs sPeed dial
вас доба - 19 - 19 - 19	3. Time and date 4. Direct-Dial
1	5. Capabilities I + G. Service Modes
	7. Password 8. Log Defaults
	9. Call Services
^{، ،}	Changing the time and date is easy, but there are a couple of, things to remember:
, L 1	 All times and dates must be entered using numerals. For example, February would be entered as "2".
	- The time may be entered in either 12 or 24-hour format. If the display is in English, and the hour entered is less than thirteen, the display prompts you to specify "am" or "pm".
". 1	 The year is not shown on the telephone display, but make sure that it is set correctly. Norstar is programmed to allow
4. mi 	for leap years.
. 5.	

32 / Names ÷ I Line Names Line Names allows you to assign a name to an external line. The £.,200 default name is the line number, for example, Line002. Begin with the display showing 1.5us speed dial. 1. Press Next The display shows 2. Names. 2. Press Show The display shows Set names. Ş. 3. Press Next The display shows Line names. 4. Press [Show]. The display shows Show line: .. 5. Enter the line number from the dial pad. OR Press Next to program the name of line 001. 6. Press CHANGE. The name is removed from the display, and a cursor is shown. 7. Enter the first character of the name by pressing the appropriate dial pad button one, two, three, or four times. For more information, see the section in this chapter entitled Entering names. Note: Press Next to restore the default name and go to the next external line. Press \rightarrow to move the cursor to the next position. Continue entering characters.

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ime and date English language displays always show the time in 12-hour		Setting Begin w
format, while the alternate language displays always use the 24-hour format.		1. Pres The
Setting the time Begin with the display showing 1.595 speed dial.		2. Pre Thé
 Press <u>Next</u> twice. The display shows 3.Time and date. 	loss I P	3. Pres The
 Press show The display shows the time, for example, Time d1:00. 	La con	 4. Pre 5. Set
3. Press <u>снанае</u> . The display shows the hour, for example, Hour:01.		a.
4. Set the hour.	a las line a co	b.
a. Press <u>CHONCE</u> . A cursor replaces the number on the display.		C.
b. Enter the hour using the dial pad. For example, press	L	6. Set
 Press Next . The display shows the minutes, for example, Minutes: 00. 		a.
5. Set the minutes.		b.
a. Press_ <u>CHANCE</u> . A cursor replaces the number on the display.		C.
b. Enter the minutes using the dial pad. For example, press [] [].		7. Set
c. Press Next If the hour entered in step 5 is less than thirteen, the display shows an.		a. b.
 To switch the message to Pm, press <u>CHANGE</u>. To switch it back to <u>am</u>, press C<u>HPNGE</u> again. 		in Second
	L,	
		P0842847

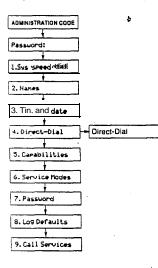
date ne display showing 1.5ys speed dial. xt _____ twice. May shows 3.Time and date. 10W play shows the time, for example, Tine 01:00. ext lay shows the date, for example, Date 31 Mar 91. HANGE. The display shows Year: 88. year. ss <u>Change.</u> cursor replaces the number on the display. er the year using the dial pad. example, press 9 0 to enter the year 1990. 2 SS Next J. display shows the month, for example Month: 01. month. ss <u>CHANGE</u>. Sursor replaces the number on the display. er the month using the dial pad. example, press **o** q to enter February. ess (Next]. display shows the day, for example Dar: 01. 4 date. SS. CHANGE. 4 cursor replaces the number on the display. er the date using the dial pad. example, press 1 4. Modular DR5.1 System Coordinator Guide

Time and date 735

36 / Direct-Dial

Direct-Dial

Direct-Dial programming allows you to call the Direct-Dial telephone assigned to your telephone by dialing a single digit. Up to five Direct-Dial telephones can be designated to handle calls from five groups of telephones. Use this Administration heading to specify which telephone directory numbers (DNs) are designated as Direct-Dial telephones.



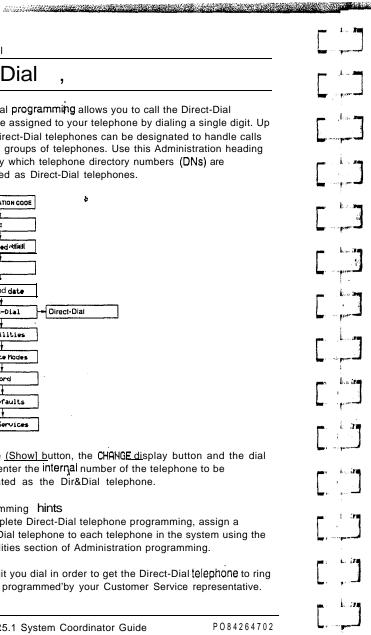
Use the (Show] button, the CHANGE display button and the dial pad to enter the internal number of the telephone to be designated as the Dir&Dial telephone.

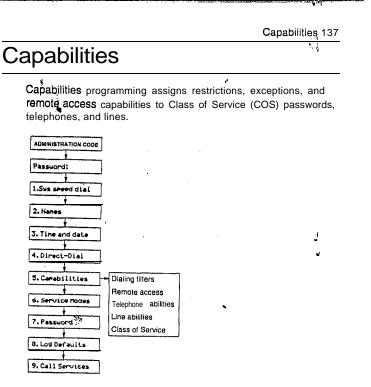
Programming hints

To complete Direct-Dial telephone programming, assign a Direct-Dial telephone to each telephone in the system using the Capabilities section of Administration programming.

The digit you dial in order to get the Direct-Dial telephone to ring can be programmed'by your Customer Service representative.

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Dialing Filters

A dialing filter is made up of restrictions and exceptions. These specify the external numbers which can or cannot be dialed from a telephone or on a line.

After digling filters are defined, they may be used as telephone (set) filters, line filters and line/set filters to manage outgoing calls, and as remote filters applied to lines. Remote access packages control the numbers that can be dialed by remote users when they are calling into Norstar to use a Norstar line for placing calls.

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Use the <u>Show</u> button, the <u>ADD</u> display button, the dial pad, and the <u>OK</u> display button to program the restrictions for each dialing filter.

Press the <u>ANY</u> display button to enter a_{\perp} wild card character that represents any digit in a sequence of numbers.

After programming a restriction, press the <u>Show</u> button to program the exceptions to that restriction. Use the <u>ADD</u> display button, the dial pad, and the <u>OK</u> display button to program the exceptions for each restriction.

For example

You may need filters for three different types of users:

- --- Managers may require unrestricted dialing.
- Secretaries may need to be limited to calls on line 003 to the West coast office only.
- Clerks may need to be limited to calling specific area codes and the West coast office.

Internal users

Dialing filters are most commonly used to prevent unauthorized long-distance calls, without restricting local calls. Dialing filters restrict the numbers that an internal user can dial on external lines.

If a line/set filter has been defined for the line selected at the user's telephone, it overrides any line filters or telephone filters which might otherwise apply.

If no line/set filters have been defined, dialed digits are filtered through (and may **beyejected** by either of) the telephone filter (if defined) and the line filter (if defined).

External users

For a remote user, who has dialed into **Norstar** on an auto-answer line (or a DID line), and passed through any **DISA** security, there are no restrictions on the numbers the user can dial.

Capabilities!/ 39

For remote users trying to tandem through the Norstar system, the Line filters and Remote filters assigned in Line abilities apply.

For a remote user entering the system through DISA, the filters and Remote access packages associated'.with their COS password replace the Remote filter, the Line filter, and the **Remote** access package assigned to the incoming line.

Programming hints

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- Norstar can have up to 100 dialing filters (00 to 99).
- Filter 00 cannot be changed.
- Each programmable filter can have up to 48 restrictions; there is no limit on the number of exceptions that can be allocated to any restriction.
- There is a maximum of 400 restrictions and exceptions allocated to the 99 programmable filters. For example, notice the reduction in the number of available restrictions and exceptions after each filter has been programmed.

Filter	User type	Rest's	Excep's	Remaining
00	manager			400
01	I secretarv	5	5	I 390
02	clerk	7	12	I 371
Total		12	17	(400-12-17 = 371)
		-	-	a the second sec

 The maximum length for a restriction is 15 digits; for an exception, the maximum is 16 digits.

*

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- The is a "wild card" that stands for any digit.
- You can use an asterisk * in a sequence of numbers in either a restriction br an exception. This character is often used as part of feature codes for other systems or for features provided by your central office.
 - Note: If you are using an earlier version of KSU software, the asterisk is used as the "wild card".
- When restricting the dialing of a central office feature code, do not forget to create separate restrictions for the codes used for DTMF and pulse lines. For example, '67 and 1167.
- Do not string together a central office'feature code and a dialing sequence that you want to restrict. Create a separate restriction for each.
- You can use <u>COPY</u> and the dial pad to copy restrictions and overrides from one dialing filter to another.
- Any restriction or exception can be used in any number of filters. Each time it is used, it counts as one entry. For example, if restriction 411 exists in filters 01, 02 and 03 it uses up three entries of the 600 entries'available.
- Removing a restriction also removes the exceptions associated with it, and changes the identifying number of the restriction. For example, removal of restriction 01 'renumbers restrictions 01 to 48 as 01 to 47.
 - Note: The removal of a restriction from one dialing filter has no effect on the contents of other filters into which the restriction was copied.
- You cannot di delete alter. Removing the restrictions programmed or an filter makes it an unrestricted filter but the filter is not removed.

	riptions permits unrest	tricted dialing,	and cannot b	pabilities / 41
	is pre-programe ad exceptions.		ve restrictions	and some
• •		Tem	plate	
	Square, Hy	brid, PBX	Centrex	
Filter	Restrict's	Except's	Restrict's	Except's
00	Unrestricted	l dialing		
01	0		90	
	1	1800	91	91800
		1555		91555
	ł	1•1•555	l - i J	91+1+555
	911	911	0011	91•0•555 2
	411	511	9911	9911 *
	976		9411 9976	
02 - 99	None		9970	
Filters 02,	tions, are the ng: Where the fi	default filter	ore-set with res settings used	later in
Filter	Set abilitie		Set filter:	
Filter 02			ine filter:	
		6e		
02	Line abiliti		Remote filter:	

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/ Capabilities			Caoabilities 7
Remote access packages Remote access packages allow you to control the remote use of		Programming hints Norstar systems can have up to to 15). The limitations are:	16 Remote access packages (
Norstar line pools and the Remote Page feature. Remote access packages are associated with COS passwords and the auto-answer lines used by remote users.		 Package 00 permits no acce pa&g. Unlike packages 01 to changed. 	ss to line pools or to remote o 15, package 00 cannot be
	· · ·	 For remote users calling into 	
Remote access packages default template Parameter Square Centrex Hybrid PBX	- [``]	0	the Remote dialing filters and (in Line abilities) still apply.
Package 00 † Prohibits access to line pools and Remote			
Page. Cannot be changed.		Telephone (Set) abilities	
Package 01		Telephone (Set) abilities programm permissions to telephones. Telep	
Line Pool access Y for Pool A N for Pools B to 0			4.
Remote Page No		Telephone (set) filters	Auxiliary Ringer
Packages 02 • 15		Line/telephone filters	Direct-dial telephones
tine Pool access N for Pools A to 0		Telephone Administration Lock	Call Forward On Busy
Remote Page No	7 (A	Full Handsfree	Call Forward No Answer
Remote package 00 is the default setting for the Remote		Automatic Handsfree	Allow Redirect
package setting.		Handsfree Answerback	Redirect ring
Use the (Show) button and the dial pad to select the Remote		Call Pickup Group	Hotline
Access package you want to program. Then, use the CHANGE		Paging	Priority Call
display button to select the line pool access setting: N (No) or Y (Yes).	and a constant of the	Page zone	Allow Last Number Redial
		ATA Ans timer	Allow Saved Number Redial
Note: The Line Pool access display shows an alphabetic line pool identifier, followed by a numeric line pool access code in brackets , for example, PoolA (9):N . If no acces		Do Not Disturb on Busy	<i></i>
code has been identified, there is nothing between the brackets, for example Poold (SN . The line podl access code can be programmed by your Customer Service representative.		Telephone (Set) filter A Telephone filter is a collection .defined in Dialing filters. These f through Set filter programming.	
Use the CHANGE display button to select the Remote Page settin N (No) or Y (Yes).		Telephone filters do not apply to Someone could dial out to a des that is restricted on the public ne lines, apply a restriction to the lin	stination on the private networl etwork. To restrict calling on E8

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ccess packages (00 ls or to remote 00 cannot be system to use ialing filters and the ties) still apply. aling filters and include: inger al telephones rd On Busy rd No Answer rect ng

Use the <u>Show</u> button, the CHANGE display button and the dial pad to enter the number of the Dialing filter to be assigned as the Telephone filter. The default telephone filter is 02.

Line/telephone (Line/set) filter

A Line/telephone dialing filter is applied to the appearance of a line at a specific telephone. This type of filter replaces, any Line or Telephone filters which might otherwise apply.

Line/set filters control the numbers that may be dialed on specific external lines from specific telephones.

For example, a Line/set filter can permit a call to a specific long-distance number on line 003 from a specific telephone, but no other long-distance numbers, and on no other line.

Use the <u>Show</u> button, the CHANGE display button and the dial pad to enter the number of the Dialing filter to be assigned as the Line/telephone filter.

Programming hints

- Up to 100 filters may be defined in the system (filters 00 to 99). Line/set filters fall under this limitation.
- A maximum of 255 Line/set dialing filters may be applied to lines at telephones.

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Telephone Administration Lock

Telephone Administration Lock limits the types of features that may be used or programmed at a telephone. Use the <u>CHANGE</u> display button to select one of the three options: None, Partial and Full.

None allows you to access any feature on your telephone.

Partial prevents:

- programming Autodial buttons
- programming Personal Speed Dial numbers
- programming feature buttons
- moving line buttons
- changing the display language
- changing Dialing Modes (Automatic Dial, Pre-Dial, and Standard Dial)
- using Voice Call Deny
- using Administration programming
 - saving a number with Saved Number Redial

Full, in addition to the restrictions outlined for Partial lock, prevents:

- changing Background Music using Call Forward all calls
- changing Privacy
- using Send Message
- changing Do Not Disturb
 using Ring Again
- using Trunk Answer activating Service Modes

Full Handsfree

Full Handsfree allows you to make or receive calls without picking up the receiver, and allows a headset to be used with the **Norstar** telephone. Use the CH<u>RNGE</u> display button to select the setting: N (No) or Y (Yes).

Programming hints

A *Heighted* button is automatically assigned to a telephone that is programmed with Full Handsfree. Full Handsfree is always disabled for an M7100 Telephone.

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Automatic Handsfiee

Automatic Handsfree activates the Handsfree microphone and speaker when you mnake or receive calls by pressing a line button. Use the <u>CHANGE</u> display button to select the setting: N (No) or Y (Yes).

Programming hints

You can program Automatic Handsfree only if the telephone has Full Handsfree set to Yes,

Handsfree Answerback

Handsfree Answerback allows you to answer a Voice Call without lifting the receiver. Use the <u>CHANGE</u> display button to select the setting: Y (Yes) or N (No),

Programming hints

Handsfree Answerback is always disabled for an M7100 Telephone.

Call Pickup (Group)

Each telephone can be assigned to one of up to nine Call Pickup groups. Members of a Call Pickup group can answer any calls ringing at a telephone in the group. Use the CH<u>RNGE display</u> button to select the setting: NO, **1**, 2. 3, 4, 5, 6, 7, **8**, or 9.

Programming hints

You cannot pick up a call that is on a Private line, or a call that is ringing only the Auxiliary Ringer.

Paging

This setting determines whether a telephone has access to the Page feature. Use the <u>CHANGE</u> display button to select the setting: Y (Yes) or N (No).

Page zone

Each telephone can be assigned to one of six zones for receiving Page messages. A zone is any selection of **Norstar** telephones you want to group together, regardless of location. Use the <u>CHANGE</u> display button to select the setting: **1**, 2, 3, 4, **5**, 6, or NO.

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Programming hints

Auxiliary Ringer

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Auxiliary ringer can be set by line and by telephone. The telephone setting when combined with the line setting allows you to chose if the Auxiliary Ringer (if installed) will ring when a call is sent to a specific telephone or on a specific line. An Auxiliary Ringer is important in noisy environments where a **Norstar** telephone might otherwise not be heard. Use the <u>CHRNGE</u> display button to select the setting: N (No) or Y (Yes).

Programming hints

To ensure that the auxiliary ringer does not ring for internally, transferred calls, your Installer should program the line setting for auxiliary ringer to yes under configuration programming. Under the heading Capabilities in administration programming, set auxiliary ringer to no. An incoming call on a line programmed to yes will ring the auxiliary ringer. Once the call is answered and transferred within the system, the auxiliary ringer set to no.

Direct-Dial telephones

A telephone can be assigned to call a Direct-Dial telephone when you dial a single digit. Use the CHRNGE display button to select the setting: **Set1**, Set2, Set3, Set4, Set5, and None.

Programming hints

Eacifitelephone can call only one Direct-Dial telephone, although up to, five Direct-Dial telephones can be designated in the Direct-Dial section of Administration programming. Any number of telephones can be assigned to call a particular Direct-Dial telephone.

The digit you dial in order to get the Direct-Dial telephone to ring can be programmed by your Customer Service representative.

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Modular DB5 1 System Coordinator Guide

	tin	: ۲ Capabilities
48 / Capabilities		Do Not Disturb on Busy
Call Forward On Busy Call Forward On Busyredirects an incoming call to another telephone on your Notstar system when you are busy on a call, or when you have Do Not Disturb activated at your telephone.		When you are busy on a call and a second call comes in, your telephone rings softly to alert you to the second call. If you find this second ring distracting, you can have the system prevent a
Use the show button, the CHANGE display button, and the dial		second[*]call from disturbing you by assigning Do Not Disturb (DND) bn Busy to your extension.
pad to program the internal number of the telephone that your calls are to be directed to.	s kis D	When DND on Busy is turned on for the set, internal and private network callers hear a busy tone instead of ringing when you are on the telephone. External callers are transferred to the prime se used in your system.
Programming hints Call Forward on Busy programming is ignored in the following situations:	alder Anna an	Press <u>CHANGE</u> to toggle the setting on (Y) or off (N).
If you are busy on a target line call , another call to that target line is redirected to the Prime telephone for the trunk that received the second target line call.		Programming hints
- If Line Redirection is in effect, it takes precedence.		If an external call uses a target line (for example, calls coming i on auto-answer loop start, E&M or DID lines), the call will be processed according to the configuration of the target line. If the
Call Forward No Answer Call Forward No Answer lets you redirect an incoming call to another telephone on your Norstar system when the call is not		target line is busy, the caller may hear a busy tone or be routed to the prime set for the target line regardless of the DND on Bus programming for the set.
use the show button, the CHANGE display button, and the dial		Forward on busy takes priority over DND on busy.
pad to program the internal number of the telephone that your		\$.
calls are to be directed to.		Allow Redirect 🙀
Programming hints		Allow Redirect enables you to use the Line Redirection feature
Line Redirection takes precedence over Call Forward N O Answer.		Üsethe <u>CHANGE</u> display button to select the setting: Y (Yes) or N(N o) .
Forward No Answer delay		See the explanation of Line Redirection in the Telephone
If you assign another telephone to receive your calls, you can also assign the number of times that the incoming call rings before the call is forwarded. To estimate the delay time in seconds, multiply the number of rings by six. Use the CHRNGE display button to select the setting: 2, 3, 4, 6. or 10 rings.		Features chapter for more information on redirecting lines.

Redirect ring

The Redirect ring setting causes a telephone to ring briefly (a 200 millisecond burst) when a call is redirected on one of its lines. Each telephone with a ringing appearance of that line also rings briefly for the redirected call if the Redirect ring setting for them is 'Y' (the default). Use the _CHANGE display button to select the setting: Y (Yes) or N (No).

A user enters the Line Redirection feature code to redirect calls. See the explanation of Line Redirection in the Telephone Features chapter for more information on redirecting lines.

Hotline

Hotline automatically calls a pre-assigned number when you lift the receiver or press Hendeline at your telephone. Hotline has three options: None, internal (Intrnl), and external (Extrnl).

Internal assigns an internal number.

External assigns an external number. If you select an external number, you can also select the line on which the call is made: the Prime line, an external line, or a line pool. You will have to specify the Line Pool Access code for a line pool.

Use the CHFINGE display button to select Hotline setting. If you select introl, use the **button**, the CHFINGE display button, and the dial pad to program the internal number of the telephone that Hotline calls are to be directed to.

If you select Extrn1, use the Show button, the CHANGE display button, and the dial pad to program the external telephone number that Hotline calls are to be directed to, and to program the line Hotline calls àre-to be made on.

Programming hints

The telephone should be labeled to inform anyone using it that Hbtline is active.

A telephone's Prime line, line pool access codes, and access to a line pool can be programmed by your Customer Service representative.



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Priority Call

This feature lets you call from your Norstar telephone and interrupt calls or override Do Not Disturb on another Norstar telephone. Use the CHANGE display button to select the setting: N (No) or Y (Yes).

Programming hints

Apply this feature only to telephones from which such interruptions can be justified.

Allow Last Number Redial

A telephone's ability to use Last Number Redial can be turned on or off. Press CHFINGE to select the setting: N (No) or Y (Yes).

Allow Saved Number Redial

A telephone's ability to use Saved Number Redial can be turned on or off. Press CHFINGE to select the setting: N (No) or Y (Yes).

Allow Link

The ability of a telephone to use Link (a host system signaling option) can be turned on or off. Press CHANGE to select the setting: N (No) or Y (Yes).

ATA Answer Timer

A timer can be used to administer a delay between the last digit you dial on a device connected to an analog terminal adaptor (ATA) and when the ATA or analog device is ready to receive DTMF tone from the far end analog device. To change the delay time, press CHRNGE to select the setting (in seconds): ATA Arts timer: 3, 5, 7, or 10. 54

Programming hints

To accommodate the device attached to the ATA, you may want to lengthen or shorten the delay. If a modem or fax machine attached to the ATA you will want to keep the delay short. If a call to a fax machine or modem cannot be connected, try shortening the delay. If an individual is dialing the number for a fax machine or'modem, you may want to make the delay a little longer.

Line abilities

Line abilities **programming** applies dialing filters, remote access dialing filters and **remote** access packages to lines.

Line filter

A Line filter is a collection of restrictions and exceptions defined in a Dialing filter, and applied to an outgoing line. A Line filter on an outgoing line may be used to limit the capabilities of that line to carry calls made to specific area codes or destinations.

Use the <u>CHANGE</u> display button, and the dial pad to program the Line filter. Filter 03 is the default Line filter.

Remote filter

A remote access dialing filter can control dialing on incoming auto-answer trunks used for making tandem calls (that is, calling into **Norstar** to us8 one of its lines for placing calls). Employees can be allowed to telephone into a **Norstar** system on auto-answer lines, and call out on a line designated for long-distance **calls** to specific area codes.

Use the <u>CHANGE</u> display button, and the dial pad to program the Remote filter. Filter 04 is the default Remote filter.

Remote package

Remote access packages control access to line pools and the Remote Page capability, for calls on incoming auto-answer trunks.

Use the <u>CHANGE</u> display button, and the dial pad to program the Remote Access package. Package 00 is the default Remote package, which gives no access. to line pools or to **Remote** page.

Class of Service (COS) passwords

Class of Service (COS) passwords permit controlled access to a system's resources by remote **users**. Class of Service programming defines passwords, their associated dialing filters, user filters and remote-user access packages.

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A Class of Service can be associated with a telephone, a line or a COS password. Class of Service determines whether a remote user can or cannot access lines in line pools and remote paging. It **also** determines the dialing capabilities that apply to outgoing lines from line pools (in the case of remote users), or to internal telephones and any lines used for external calls (in the case of internal users).

The capabilities to which a remote user has access depend on:

- the COS associated with the auto-answer trunk on which! the user is calling
- a COS password, if entered.

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Depending on the COS in effect, remote users may be able to access all or'some of the system's resources available to remote users. Typically, each user has a separate password. Several users can share a password or one user can have several apasswords.

Entry of a DISA DN (if one has been programmed) allows a remote user to change the COS applied for the duration of the call.

COS passwords for internal users

Internal users have a Class of Service associated with their telephones, in the sense that there are dialing filters associated with telephones, as well as line pool assignments. Internal use of a COS password affects only the telephone's dialing capabilities.

The ability to change the COS internally means that someone using another person's telephone can temporarily change the restrictions that would normally be applied,

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- Password security
- Class of Service passwords for a system should be determined randomly, and should be changed on a regular basis.

- System users should memorize their COS passwords instead of writing them down.
- Employees' COS passwords should be deleted when they leave the company.

You can block tandem calls that would use expensive routes by using Class of Service to restrict access to line pools, and YOU can control the external destinations dialed through the use of dialing filters.

You can use Class of Service to prevent remote access to line pools and remote paging. Remote calls are then limited to target lines in the system.

Groups of users can be restricted, or permitted, to access remote paging through the Class of Service applied to their password.

Programming hints

- A system can have a maximum of 100 six-digit COS passwords (00 to 99).
- You can copy the data from one COS password to another -----COS password number using the COPY display button in the same way that telephone and line data can be copied.
- COS passwords must be unique.

Programming COS passwords

Use the Show button, the CHANGE display button, and the dial pad to program the six-digit sequences for each password. Use the <u>BKSP</u> display button to edit digit sequences you have entered.

User filter

The COS User filter replaces the telephone (set) filter, the line/set filter or the remote filter, that would otherwise apply to a specific call.

Capabilities / 55 button, the CHANGE display button, and the dial

12

pad to program the two-digit User filter. The default setting (**Defit**), means that any other filters in place (telephone (set) filter, line/set filter, or remote filter) still apply.

Line fiiter

Use the Show

The COS Line filter replaces the line filter that would otherwise apply to a specific call.

Use the CHANGE display button, and the dial pad to program the two-digit Line filter. The default setting (Deflt), means that any Line filter already programmed still applies.

Remote package

The COS Remote package replaces the Remote Access package that would otherwise apply to a specific call.

Use the CHANGE display button, and the dial pad to program the Remote package. The default setting (Deflt), means that any Remote Access package already programmed still applies: 20

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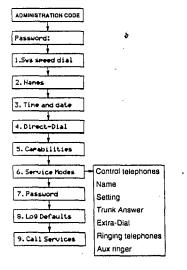
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56 / Service Modes

Service Modes

Using Service Mode!., you can control how the Norstar system responds to calls, depending on the time of day. Up to three different Service Modes can be programmed, each with unique ringing arrangements.



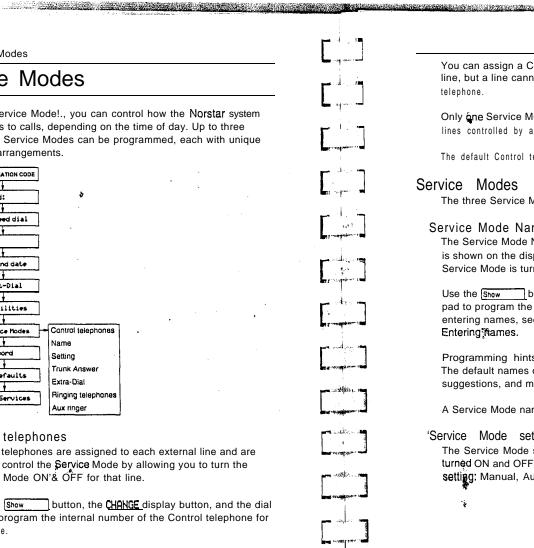
Control telephones

Control telephones are assigned to each external line and are used to control the Service Mode by allowing you to turn the Service Mode ON'& OFF for that line.

Use the Show button, the CHANGE display button, and the dial pad to program the internal number of the Control telephone for each line.

Programming hints

Only the external lines programmed with a Control telephone can be placed into a Service Mode.



Service Modes / 57

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You can assign a Control telephone to more than one external line, but a line cannot be assigned to more than one Control telephone.

Only one Service Mode applies at any one time to all external lines controlled by a given Control telephone.

The default Control telephone for all lines is 221

Service Modes

The three Service Modes are programmed in the same way.

Service Mode Name

The Service Mode Name identifies the active Service Mode; and is shown on the display of the Control telephone when the Service Mode is turned ON.

Use the Show button, the CHANGE display button, and the dial pad to program the Service Mode name. For information on entering names, see the information in this chapter entitled Entering hames.

Programming hints

The default names of the three possible Service Modes are only suggestions, and may be changed to any other name.

A Service Mode name can be one to seven characters.

'Service Mode setting

The Service Mode setting controls how the Service Mode's turned ON and OFF. Use the CHANGE display button to select the setting: Manual, Automatic, or OFF.

58 / Service Modes

Manual allowsyou to turn the Service Mode ON and OFF at any time from a Control telephone. The Service Modes feature code must be entered at the telephone to access this feature.

Automatic allows you to pre-assign a stop and start time during which the Service Mode is active. You are still able to start and stop the Service Mode by entering the Service Modes feature code at a Control telephone. If you select this setting, you will have to program start and stop times. See the section in this chapter on Time and Date for information on programming times.

OFF prevents the Service Mode from being activated.

Programming hints

Overlapping times may be assigned. For example, if Service Mode 1 is assigned from 9:00 am to 4:00 pm and Service Mode 2 is assigned from 1:00 pm to 5:00 pm, then the Start time of the second Service Mode is treated as a stop time for the first Service Mode. This is also true if two Service Modes have the same start time but different stop times.

If one Service Mode starts and stops within the times of another Service Mode, the first service temporarily ends when the second service starts. The first service then resumes when the second service has ended.

Default stop and start times correspond to typical hours which may be required for a night Service Mode.

Default Service Mode times

Service Mode	Start time	Stop time
Service Mode 1: Night.	23:00	07:00
Service Mode 2: Evening	17:00	23:00
Service Mode 3: Lunch	12:00	13:00

Trunk Answer Trunk Answer allows you to answer, from any telephone, an

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external call which is ringing at another telephone in your office. This is useful if the other telephones have not been assigned the same lines as the telephone you are using to answer the call.

Service Modes / 59

You can change the Trunk Answer setting only if the Service Mode is set to Manual or Automatic.

Use the CHANGE display button to select the setting: Y (Yes) or N (No).

Extra-Dial telephone

A telephone normally in service as a Direct-Dial telephone, can be programmed in Service Modes to allow internal calls to thd Direct-Dial telephone to also ring at the Extra-Dial telephone.,

Use the CHANGE display button and the dial pad to enter the internal telephone number of the Extra-Dial telephone.

Programming hints

The Extra-dial telephone provides the option of assigning one more Direct-Dial telephone in the Norstar system for each operational Service Mode.

Ringing

You can assign additional telephones to ring for incoming calls on each external line, including target lines. Use the Show button, the ADD display button and the dial pad to enter the, internal telephone number of the Flinging telephone for each line.

You can indicate whether the Auxiliary Ringer (if installed) also rings. Use the CHANGE display button to select the setting: Y (Yes) or N (No).

Programming hints

The default ringing telephone is 221. This means that all lines ring at Control telephone 221, when Service Modes are activated. A Ringing telephone can be assigned to more than one Service Mode.

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60 / Password

Password

The Administration password allows access to Administration programming. This prevents unauthorized or unintentional changes to settings. To ensure security, distribute the passwords only to selected personnel, keep a record of your password in a secure place, and change the password periodically.

The password is a one to six-digit number. The default Administration password is A D M I Q which is the same as 23646.

Use the Show button, the CHANGE display button and the dial pad to enter the new Administration password. Use the OK display button accept the programmed password.

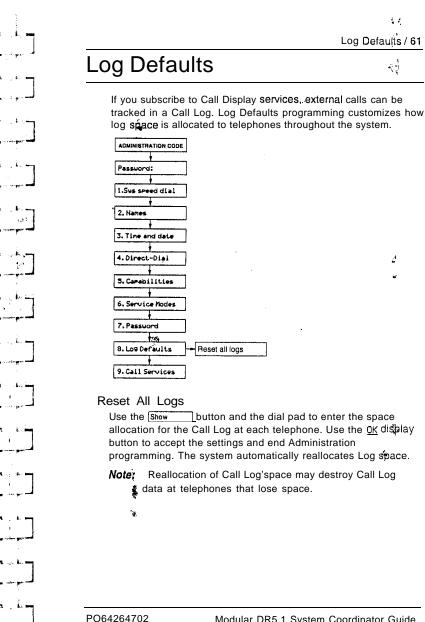
Programming hints

The password is easier to remember if the digits correspond to the letters in a word.

If you forget the Administration password, you are not able to access Administration programming. Call your Customer Service representative to assign a new Administration password.

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Log Defaults / 61

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Use the Show _____button and the dial pad to enter the space allocation for the Call Log at each telephone. Use the OK display button to accept the settings and end Administration programming. The system automatically reallocates Log space.

Note: Reallocation of Call Log'space may destroy Call Log & data at telephones that lose space.

- Reset all logs

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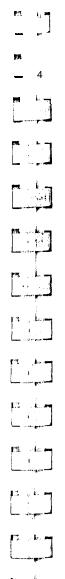


62 / Log Defaults

There are 600 Call L_{pg}^{0} spaces available in the system. There are no spaces allocated by default. Changing the space allocation using Log Defaults will define the log space available to all telephones in the system. Unassigned log space is available in a Log Pool, and can be re-allocated in Call Services programming.

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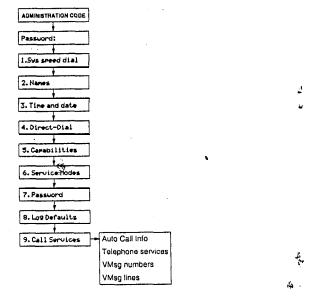
Call'Services

If you subscribe to Call Display services, external calls are identified on the display. Call Services programming allows you to customize how this information is used.

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Call Service& 63



Auto Call Info

Automatic Call Information allows you to specify which telephone displays the Call Display information when a call is ringing on an external line. (After the call is answered, **Call** Display information is always shown at the telephone that answered the call.) Use the <u>SHOW</u> button, the <u>CHANGE</u> display button and the dial pad to enter the internal number of the telephone to display Call Display information.

Note: In order for a telephone to display the Call Display information for calls on an external line, that telephone must also be programmed to Ring for that line.

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Telephone (Set) Services

Telephone Services programming allows you to customize how Call Display information is used at each telephone.

Autolog/Show Voice Message

Logging telephone (set)

Logging telephone allows you to specify the telephone that automatically logs Call Display information for calls on an external line. The line must appear on that telephone but it does not have to be a ringing line. Use the <u>SHOW</u> button and the <u>CHANGE</u> display button to select the setting: N (No) or Y (Yes).

Show External Voice Message

If you subscribe to Voice Message services, you can access that service through your **Norstar** system. Show External Voice Message controls the display of External Voice Message Waiting indication for each line at each telephone. The telephone must have an appearance of that line. Use the <u>CHANGE</u> display button to select the setting: N (No) or Y (Yes).

Log Space

Log Space changes the number of items that can'be stored in the Call Log for each telephone. Use the <u>[Show]</u> button, the <u>ADD</u> display button and the R<u>EMOVE</u> display button to redistribute the log space. There is no Log Space assigned by default.

Programming hints

Space must be available in the Log Pool before any space can be added to a current Call Log space.

System-wide allocation of space is' performed from Log Defaults programming. If you are performing extensive changes, it may be appropriate to use the Log Defaults programming mechanism instead.

Log Password

Log Password allows you to clear any Call Log password programmed with the Call Log feature. Use the CHANGE_display button to clear the programmed password.

First Display Depending on the services you subscribe to, Call Display information may contain up to three parts: the name of the caller, the number of the caller, and the name of the line in your Norstar system that the call is on. Use the <u>CHANGE</u> display button to select the setting to be shown first for each telephone: Name, Number or Line. Programming hints The Call Information feature is used to display and scroll through all of the Call Display information: the caller name, number and line number. See the Telephone features chapter for more information.

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You may see Unknown name or Unknown number on the display if the information is not available from your telephone company. You may see Private name or Private number on the display if the caller blocks that information.

Voice Message Center telephone numbers

If you subscribe to Voice Message services, you can access that **service** through your Norstar system. This setting specifies the external telephone number that is automatically dialed by the Message feature to retrieve voice messages. Use the CHRNGE display button and the dial pad to enter the external telephone number.

Programming hints

The display does not show that external messages are waiting unless the Show External Voice Message prompt is set to Yes.

Five Voice Message Center numbers can be programmed, but most systems require only one.

Voice Message Center lines

If you subscribe to Voice Message services, you can specify which Voice Message Center is used for each external line that can receive Message Waiting indication. Use the <u>CHANGE</u> display button to select the setting: 1, 2, 3, 4, 5, or N (None).

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66 / Copying settings

Copying settings

Programmed settings for lines, telephones, and certain Capabilities can be copied to other lines or telephones. If many lines or telephones require the same settings, program one line or telephone, and then copy those settings.

Line programming &

Line programming can be copied for Line abilities in the Capabilities section of Administration programming, and Ringing telephones in the Service Modes section of Administration programming.

Use the <u>COPY</u> display button and the dial pad to identify the source and destination of the copied information.

Telephone programming

Norstar telephone programming can be copied for Set Abilities in the Capabilities section of Administration programming.

Use the <u>COPY</u> display button and the dial pad to identify the source and destination of the copied information.

Capabilities programming

In addition to Line abilities and Set abilities, Norstar Capabilities programming can be copied for:

- Dialing filters
- Remote access packages
- COS passwords

Use the <u>COPY</u> display button and the dial pad to identify the source and destination of the copied information.

Set Profile and Line Profile 767

Set profile and Line Profile

Use Set Profile and Line Profile to review the settings programmed in Configuration and Administration programming. Set Profile and Line Profile allow you to browse through, but not change, the programmed settings.

Set Profile allows you to verify settings for each Norstar telephone. Line Profile allows you to verify settings for each external line.

Using Set Profile and Line Profile

As many as four people in the Norstar system can use Set P&file or Line Profile at the same time. You may access Set Profile and Line Profile while on a call at your telephone.

If someone is using Configuration or Administration programming you can still access Set **Profile** and Line Profile from another Norstar telephone. The latest programming changes can be seen as soon as they are made.

Set Profile and Line Profile can be used only from an $M7310 \mbox{ or } M7324$ $\mbox{ Telephone}.$

A Norstar Programming Overlay is not required to perform Set. Profile or Line Profile.

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		Set Profile and Line Profile'/
review ne Configuration and Administration can be reviewed in Set Profile and iewed Line Profile Line name		 To begin Set Profile From an M7310 or M7324 Telephone: Press Footure * * 7 9 9, which is the same as Footure * * 5 E T. The display shows Show set: 2. Enter the internal number of the telephone to be reviewed. OR Press FIRST to review programming for the telephone with
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Received number (target lines oniy) Line data		To begin Line Profile From an M7310 or M7324 Telephone:
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internal number:internal number or name (if programmed) .ine001 external line number:external line number or name		Line001:WATS, if that name was programmed for the line. To exit Set Profile or Line Profile 1. Press Freature
(if programmed)		
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68 / Set Profile and Line Profile

Programming yo can

The following table 9 ows t programming headings that Line Profile.

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Programming that can be re-

Set Profile	Line Profile
Set name	Line name
Line Access	Trunk data (physical lines only)
Set abilities	Received number (target lines oniy)
	Line data
	Line abilities
	Service Modes

The following table shows appear on the display while Profile.

Telephone name	7.21: 221 O R 221: C WHITE	internal nu mber:internal number or name (if programmed)
Line name	Line001:Line001 OR Line001:WATS	external line number:external line number or name programmed)

 Set Profile and Line Profile 169 Form an M7310 or M7324 Telephone: Press return ** * * * * * * * * * * * * * * * * *			• •
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OR To return to the name of the telephone. press <u>NEXT</u> .		4. To see th O R To displa OR To review The displa
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		To display Line abilities, as in step 4, press BACK.
0 R To return to the name of the line, press <u>NEXT</u> .		O R

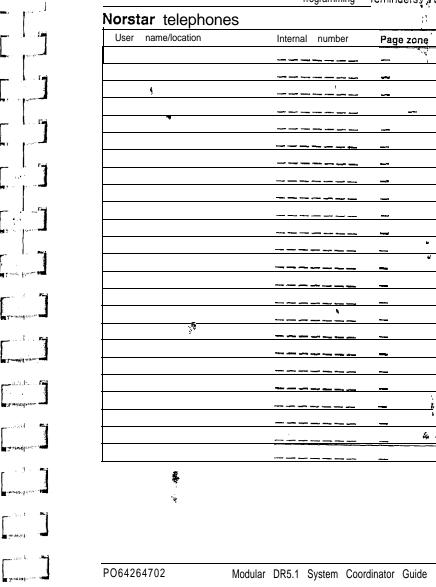
Programming reminders

The Programming reminders are a record of programmable settings which Norstar users may need to know on a day-to-day basis.

Fill out whatever sections are programmed and must be known. If more space is required to record the information, first photocopy the page before you begin. Not all of the programmable features may be required information.

Programmable settings can be determined from a review of the Norstar Modular DR5.1 Programming Record and use of the Set and Line Profile feature.

Distribute the Programming reminders to each desk that has a Norstar telephone, or post them on the wall next to the telephone.



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Prime telephones	· · · · · · · · · · · · · · · · · · ·	لنبوب م
Prime Telephone operator		
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Prime Telephone operator		
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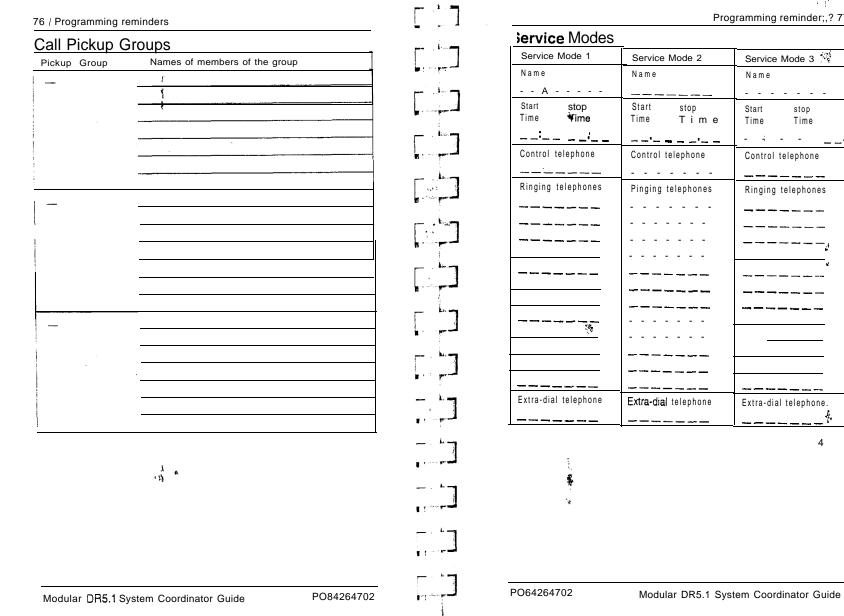
Line Pools

Pool	Access code Use	
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Miscellaneous programming

Direct-dial, telephone	
DISA DN (used to change COS)	
Direct-dial digit	_
Call Park Prefix digit	-
Dial first to make external calls	

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> > stop

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Telephone features

Answer a call

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Handle many calls at once Answer buttons 162 Central Answering Position 173 Call Queuing 84 Hold 117, 143 Prime telephone **84**, 88, 176

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Log your incoming calls Autobumping 101 Call Log 101 Logit 100

Make calls quickly without having to dial the whole **number Autodial** 91, 128 Hotline telephone 175 Last Number Redial 129 , Messages* 156 Speed Dial 177 Saved Number Redial 130

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Using Norstar features

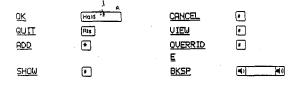
To use a Norstar feature, enter the feature code and watch your telephone display for instructions. Different displays come up at different times, depending on how you invoke the feature and the choices you make while using the feature. If you want more information about a display, look it up in the Displays section of each feature listing.

Note that some features work only in certain circumstances. For example, to use Conference you must have two calls at your telephone, one active and one on hold.

The displays shown in this book use a 3-digit internal number, which is the default for an expanded system. (A non-expanded system has a 2-digit internal number default.)

One-line and two-line displays

All Norstar telephones have LCD displays that give you information about your calls and guide you through Norstar features. The M7100 and M7208 Telephones have a one-line display. The M7310 and M7324 Telephones have a two-line display. The second line of a two-line display shows the functions of the three buttons directly below it. If you have a telephone with a two-line display, you can use these display buttons. Some display buttons, such as TRANSFER and ALL, are simply shortcuts. If you have a telephone with a one-line display, these shortcuts are not available. Other display buttons, such as OK and SHOW, perform essential functions. If your telephone has a one-line display, you can use the following buttons in place of these display buttons:



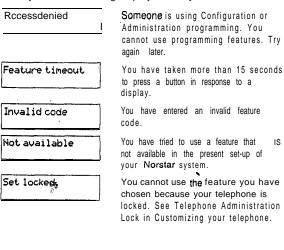
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All displays listed in this book are shown as they appear on the two-line display, except those that appear only on telephones with a one-line display. If you are using a telephone with a one-line display, ignore both the second line of the display shown in this book, and the instructions for using display buttons.

Common feature displays

You may see the following displays when you use a feature.



Dialing and Answering the telephone

Many Norstar features require you to dial telephone numbers. The displays associated with dialing are listed in the Dialing section. If you see a display that is not listed with the feature you are using, look for it in the Dialing section. All the displays that appear when you are receiving a call are listed in the Answering the telepsone section.

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One button access

You can program most **Norstar** feature codes onto telephone memory buttons so that you can use the feature by pressing a single button. See the procedures in the Feature programming section,

Whenever the instructions tell you to enter a feature code, you can do so either by pressing the buttons shown in the feature description or by pressing a memory button on which the feature code has been programmed. You can also enter a telephone number by pressing an **Autodial** button, rather than entering it manually.

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Canceling a feature

Some features change the way your telephone works. To make your telephone work normally again you must cancel the feature. To cancel a feature, press <u>Feature</u>, then **()** and the feature code. For example, to cancel Call Forward, which you activate by pressing <u>Feature</u> **()**, press <u>Feature</u> **()**.

If a feature code is programmed onto a memory button, you may be able to cancel the feature by pressing the memory button while the feature is active.

If you change your mind in the middle of using a feature, you can back out by pressing $\boxed{Feature}$ or \boxed{Ris} . Se aware that pressing \boxed{Ris} disconnects any active or held call.

M7100 Telephone

Because the M7100 Telephone does not have any line buttons it sometimes works slightly differently from other Norstar telephones. Where other telephones may require you to select a line button to answer a call, on the M7100 Telephone you simply pick up the receiver. Where other telephones require you to select a line button to' take a call off hold, you press [Hold] on the M7100 Telephone. The M7100 Telephone cannot have a <u>Magazine</u> button. You will find special instructions for the M7100 Telephone in some feature descriptions. Answering the telephone /j83

Answering the telephone

Answering

Your Norstar telephone can receive many different types of calls. Your telephone's display tells you what type of call you are receiving The usual way to answer a call is to pick up the receiver,'but there are several other possible methods. depending on how your system is set up and the type of call that is ringing.

Callback

When you direct a call you have answered to another telephone, the system monitors the call to make sure someone answers it. If no one answers a call within a programmable length of time, the system directs it back to you. Callback generates a variety of displays. Most occur after a programmable delay and are listed in this section. Some occur immediately, if the telephone to which" you are directing a call is out of service or otherwise unavailable. These are listed with the descriptions of the features in which they occur.

Delayed **Ring** Transfer (DRT)

If no one answers a call within a programmable length of time, the system transfers the call to the Prime telephone.

Call Display information

If you have subscribed to Call Display services from your local telephone company, one line of information about an external 4 caller is displayed after you answer. If your telephone has been programmed to receive Call Display information automatically4 that information is shown before you answer. Depending on the setting in Administration Programming and the external information available, either the caller's name or telephone number is displayed.

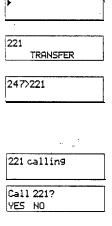
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When you transfer an external call to another **Norstar** user, this information is displayed on the recipient's telephone.

	• " · · · · ·		Answering the telephone / 85
84 / Answering the telephone'	V 9 1 1 1 1	What line indicators	mean
There will be a delay between the time your telephone rings and when Call Display information is available. If you answer a call before the Call Display information arrives, that information is not		►Flashing on and off for equal lengths of time	There is an incoming call on the line,:!
available for the call.		Flashing on and off more quickly	You have placed a call on hold.
Call Pickup		►Fisshing on for longer than off	Someone else has put a call on hold on that line.
Call Pickup lets you use your telephone to answer a call that is ringing at someone else's telephone.		►On, not flashing	You are connected to the call on that line or the line is in use elsewhere.
		Off	The line is free.
Call Queuing Call Queuing allows you to choose the call with the highest	- + 2		
priority when you have more than one call ringing at your		Rings you may hear	
teleohone.	- 1.1	A double beep every ten seconds	A call has been camped to your telephone.
Do Not Disturb If you do not wish to receive calls, turn on Do Not Disturb.	par kanang	A long single ring	There is an external call on the line for you.
Handsfree/Mute You can answer calls without picking up the receiver using		. A shorter double ring	There is an internal call on the line for you or a call is being transferred to you.
Handsfree/Mute.		A brief single rıng	A call is being redirected on one of your redirected lines. You cannot answer this call. See Line
Prime telephone A Prime telephone receives calls that go unanswered at other	pe kang		Redirection.
telephones. For more information, see Special telephones.		Three beeps descending in tone	You are receiving a priority call.
Retrieving a Parked Call You can retrieve a parked call at any telephone in the system.	pat Baama		j.
	in the state of the		۶×
Voice Call Deny [Feature] [6] [9] If you do not wish to receive voice calls, turn on Voice Call Deny.			4
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Displays



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Leature. See Draining 10	 A full explanation of Ring Again. This indicates a long distance call. (May be available with Call Display 	<u> </u>	call forwarded from telephone 221 you have an Answer button for telephone 221 and an external call
221 TRANSFER	Services.) You are connected to an internal call. You can press T <u>RRNSFER</u> to transfer	No calls waiting	ringing on that telephone. You tried to use Call Queuing but no call was ringing at your telephone.
247>221	the call. Either you are receiving an internal call from telephone 247 forwarded by telephone 221 or you have an Answer button for telephone 221 and an button for telephone 221 and an	No line selected	There is no call ringing at your telephone. If you have a flashing line button but your telephone is not ringing, you must press the line button to answer the call on that line.
221 calling	internal call from 247 is ringing on 221. You are receiving a call from telephone 221.	Not in service	The telephone to which you have directed a call is not in service or IS otherwise'unavailsble. The call is returned to your telephone.
Call 221? YES NO	You have received a Ring Again offer for a call to an internal telephone. To call the number again, press YES or the flashing internal line button. On the M7100 Telephone, just lift the receiver. Otherwise, press <u>NO</u> or wait 30 seconds for the Ring Again offer to expire. For an explanation of Ring Again, see Dialing.	Parked call CALLBACK Pick up receiver	Nobody answered the call you parked The call has come back to you. You have used the Call Queuing feature without picking up the receive Auto Handsfree has not been assigned to your telephone. You must use the receiver or to answer a ringing or camped call.
Camped: 221 CALLBACK	The person to whom you camped the call did not answer it. The call has come back to you. Press the CALLBACK button or the line button to reconnect to the call.		
Line001 TRANSFER	You are connected to an external call. You can press <u>TRANSFER</u> to transfer the call.	*	
Line001 transfer	The call on line 001 is being transferred to you by someone else in your Norstar system.		
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Priority>221 LOCK	You are receiving a Priority Call. If you are on another call, inform the person
	you are, speaking to that the call is
	about to be put on hold. Press the
1	flashing line indicator of the Priority
	Call or wait till the call connects
,	automatically (in eight seconds).
	The Priority Call goes through when
	you hear the next beep.
	Your active call is placed on Exclusive
	Hold. It will be reconnected
	automatically when the priority call
	ends (unless you transfer the Priority
	'Call, in which case you must press the
	line button of your original call to
	reconnect).
	To reject a Priority Call, use DND
	(Feature 8 5) or press <u>BLOCK</u> .
Release a call	You have no free line buttons on
	which to receive a call. Release one of
	your current calls and try again to
	answer the incoming call.
Use line pool?	You have received a Ring Again offer
YES NO	for a line pool. To use the line pool,
	press YES or the flashing internal line
	button On the M7100 Telephone, just
	lift the receiver. Otherwise, press NO or
	wait 30 seconds for the Ring Again
	offer to expire. For an explanation of
	Ring Again, see Dialing.
aa talanhana di	anlaya
ne telephone di	
f yours is a Prime telep	hone, you may see the following displays:
DND from 221	The person at telephone 221 has
	forwarded a call to you using Do Not
<u> </u>	Disturb.
	The system has transferred a sell to
DND transfer	The system has transferred a call to you from a telephone in Do Not
one of anoter	
	Disturb mode.

40 Answering the telephone / 89 Nobody answered this call so the system transferred it to you.

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Someone has camped, parked or transferred a call on line 001 , but no one has answered it. Press the CALLBACK button or the line button to connect to the call.

There is no telephone that can receive a call on line 001 so the System has transferred it to you.

The call coming in on line 015 was intended for target line 087. Line 087 is busy so the call has come to you.

Notes

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DRT Line001

Line001 callback

CALLBACK

Line001 to prime

Line015>Line087

There are three indications of an incoming call: ringing, a linebutton flashing, and a message on the display. You will not necessarily receive all three indications for any particular call. You may have a line that has been set up not to ring at your telephone. if so, you will see only a flashing line button. If there is no button free for a camped call to appear: you will get a special ring and a message on your display, but no line button will flash. If someone makes a voice call to you, you will hear a beep followed by their voice. There are many possible combinations, depending on how your system is set up. See Lines in the System features section for more information on the use of lines.

There are many ways to answer a call. Many of them depend@ settings in Administration programming. Depending on various settings and the type of call you are receiving, you may be able to answer a call by: picking up the receiver, picking up the receiver and pressing a line button, pressing [Handalitee], pressing Hand pressing a line button, pressing a line button, or simply speaking.

If you receive a Priority Call and your telephone has no free internal line buttons, you cannot transfer the call or do anything else with it, except release it.

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Answering the telephone On M7100 Telephones. YOU may answer a second call by	F 8 - P A	A
pressing (<u>Hold</u>]. Your active call is put on hold and you are connected to the waiting call. You can have no more than two calls at a time.		
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	ou can program memory buttons for one-touch dialing of ternal or external telephone numbers.	-
Exte	Press Feature 1.	
2.	Select the button you want to program. This is not necessary for the M7100 Telephone.	'
3.	If you want this autodialer to use a particular line or line pool, select that line or line pool button. You can only select a line pool button on the M7100 Telephone.	
4.	Enter the number.	
5.	Press OK or Hold	
Inter 1. 2.	rnal Autodial Press <u>Feature</u> (ع). Select the button you want to program: This is not necessary for the MP7100 Telephone.	
3.	Enter the number.	
an	ays bu will see some of the following displays while programming Autodial button. See Dialing for displays that may occur while ing an Autodial button.	
	987. Continue to enter digits until the number is complete. Press BKSP or QUIT BKSP OK →●●●● ■● ■● ■● ■● ■● ■● ■● ■● ■● ■● ■● ■●	
	Autodial full numbers in your Norstar system is full.	

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44

Autodial / 91

92 / Autodial

Button erased	While programming External Autodial, you pressed <u>QK</u> or Hold before entering any digits. This erases the button.	
Enter digits QUIT OK	Enter the number you wish to program exactly as you would if you were dialing it yourself.	
/Hold or release	You cannot program an Autodial button while you are on a call. Finish your call or place it on hold before programming an Autodial button.	
Intercom #: . QUIT	Enter the internal telephone number you wish to program.	, a 3 juan
Press a button QUIT	Press the memory button you want to program.	
[Program and HOLD	This display pertains only to the M7208 Telephone. Enter the number you want to program onto the button, then press Hold You may include a line or line pool selection in an autodial sequence by selecting the line before entering any digits.	
Program and OK QUIT OK	Enter the number you want to program onto the button, then press From or OK. You may include a line or line 'pool selection in an autodial sequence by selecting the line before entering any digits.	
'Programmed .I	The number is stored on the button.	
Notes		
	tar system is off for more than three nay be lost from the memory.	
	e programmed onto memory buttons. med onto line buttons, the	

Autodial/193

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You can program Host System Signaling codes as part of a number on an External Autodial b&on. See Host System . Signaling.

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CARDINE TO COLONE

If you **donot** include a line selection in an autodialer, the call will use your Prime line, if you have one. If you select a line before **pressing** the **Autodial** button, any line selection programmed onto the button will be ignored.

You can copy the telephone number from a Last Number Redial button or Saved Number Redial button onto an Autodial button. Simply enter the Last Number Redial feature code or Saved Number Redial feature code when the Autodial feature asks you to enter a number.

Handsfree/Mute button, or Answer buttons.

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96 / Call Forward

If the telephone to which you forwarded your calls does not have the same external $lin^{2}s$ as your telephone, the forwarded calls appear on internal line buttons.

Telephones that have Call Forward on Busy active can still receive Priority calls. Call Forward on Busy does not forward camped calls.

When Call Forward is active, all calls go to the call forward destination, regardless of the Call Forward on Busy and Call Forward no Answer settings.

If you are one of a group of people who regularly forward their calls to one another, be aware that it is possible to set up forward loops in which a call is forwarded from one telephone to another in a circle, and is never answered anywhere.

Calls that are redirected by Line Redirection are not affected by any of the Call Forward features.

Call Information

Feature

97

8 1 1

Call Information

Call Information allows you to display information about incoming calls. This information is more detailed than the Call Display information you automatically receive. See the Answering the telephone section in this chapter for details. For external calls, you can display the caller's name, telephone number, and the line name. For an internal call, you can display the name of the caller and their internal number. You can obtain information from ringing, answered, or held calls.

Names and numbers for external callers are displayed only if you have subscribed to Call Display services from your local telephone company.

Display Call Information before or after answering

- 1. To find out who is calling or to obtain information about your current call, press [Feature [9]]
- If the call is an internal call, the caller'sname and the internat約umber are displayed. OR

If the call is an external call, Call Display information is displayed according to how this feature was programmed in Administration programming.

To obtain more information about an external call: For a one-line display, press repeatedly to display more information about the call. OR

For a two-line display, continue to press <u>UIEW</u> to display more information about the call.

Display Call Information for a call on hold

- 1. To obtain information about your held call, press
- 2. The display shows >Select a call.
- 3. Select the line on hold.

98 /Call Information	Call Log /
 If the call is ah internal call, the caller's name and internal number are displayed. OR If the call is an external call, the caller's information is displayed. To obtain more information about an external call: For a one-line display, press Q repeatedly to display more information about the call. OR For a two-line display, continue to press UIEW to display more information about the call. 	Call Log Call Log creates a list of records of incoming external calls, The log could contain the following information for each call: sequence number in the Call Log, name and number of caller, indication if call was long distance, indication if call was answered (and identification of who answered it), time and date of the call, number of repeated calls from the same source, and name of the line that the call came in on.
with the date and time of the call, and the number of times the caller called. Displays P5551234 EXIT UIEW S55 P>5551234 EXIT UIEW You would see this display if you were on an active call with a caller at -1234. You would see this display if you were on an active long distance call with a caller at 555-I 234.	Call Log has many benefits. For example, you may find it helpfu to: • keep track of abandoned or unanswered calls, • call back a customer who was unable to reach anyone, • track patterns for your callers (for'example volume of calls and geographical location of calls), • record caller information quickly and accurately, and • build a personal telephone directory from log items.
Notes Call Display information becomes available between the first and second ring of and alerting call. If you answer before the Call Display information is available on your display, and you press Feature (), you will only see the line number or line name.	Log space is assigned to each telephone. Since a log can become full, Call Log has Autobump, which when set to OfN, allows new calls to be logged, while at the same time deleting old entries. Names and numbers for external callers are displayed only if you have subscribed to Call Display services from your local telephone company.
Modular DR5.1 System Coordinator Guide P064264702	P064264702 Modular DR5.1 System Coordinator G

 Choose Logging Options You can select the type of calls that will be stored in your Call Log. 1. Press reauw (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	/ Cal	l Log	E.]	
 2. If the default has not changed, the display shows No one answered. If you want to log calls that were not answered, press 0K or resure OR Press NEXI or Q to display the next selection. 3. The display shows & answered be me. If you want to log calls that were unanswered at your telephone but answered elsewhere in the system, press 0K or resure. OR Press NEXI or Q to display the next selection. 4. The display shows Los all calls. If you want to log all calls, answered and not answered at the telephone, press 0K or resure. OR Press NEXI or is to display the next selection. 5. The display shows No autologeing. If you do not want Information to be automatically logged, press 0K or resure. OR Press NEXI or is to return to the first selection. 6. To exit, press me. Use Logit (manually log a call) resure is 12 If your calls are not automatically logged, Logit lets you manually log call information when you are connected to an external call. Being able to store information for your current call can be helpful in many situations. For example, you may want to: record only selected calls that you personally choose, as opposed to using Call Log automatically, and 	You	can select the type of calls that will be stored in your Call		
 answered. If you want to log calls that were not answered, press QK or Feature OR Press NEXT or Q to display the next selection. 3. The display shows & answered be me. If you want to log calls that were unanswered at your telephone but answered elsewhere in the system, press QK or Feature OR Press NEXT or Q to display the next selection. 4. The display shows Los all calls. If you want to log all calls, answered and not answered at the telephone, press QK or Feature OR Press NEXT or r to display the next selection. 5. The display shows No autologeing. If you do not want Information to be automatically logged, press QK or Feature OR Press NEXT or r to return to the first selection. 6. To exit, press Fes. Use Logit (manually log a call) Feature P 1 3 If your calls are not automatically logged, Logit lets you manually log call information when you are connected to an external call. Being able to store information for your current call can be helpful in many situations. For example, you may want to: record a caller's information without using paper and pencil, record only selected calls that you personally choose, as opposed to using Call Log automatically, and 	1. F	Press Feature (* 8 4.	10 Jan	
 3. The display shows & answered by me. If you want to log calls that were unanswered at your telephone but answered elsewhere in the system, press OK or Feeture. OR Press NEXT or Q to display the next selection. 4. The display shows Los all calls. If you want to log all calls, answered and not answered at the telephone, press OK or Feeture OR Press NEXT or to display the next selection. 5. The display shows No autologging. If you do not want Information to be automatically logged, press OK or Feeture OR Press NEXT or to return to the first selection. 6. To exit, press Fees. Use Logit (manually log a call) Feeture O 1 3 If your calls are not automatically logged, Logit lets you manually log call information when you are connected to an external call. Being able to store information for your current call can be helpful in many situations. For example, you may want to: record a caller's information without using paper and pencil, record only selected calls that you personally choose, as opposed to using Call Log automatically, and 	2.	answered. If you want to log calls that were not answered, press <u>OK</u> or Feature OR		
 that were unanswered at your telephone but answered elsewhere in the system, press <u>OK</u> or <u>Feature</u>. OR Press <u>NEXT</u> or Q to display the next selection. 4. The display shows Los <u>all</u> calls. If you want to log all calls, answered and not answered at the telephone, press <u>OK</u> or <u>Feature</u>. OR Press <u>NEXT</u> or i to display the next selection. 5. The display shows No <u>autologging</u>. If you do not want Information to be automatically logged, press <u>OK</u> or <u>Feature</u>. O R Press <u>NEXT</u> or i to return to the first selection. 6. To exit, press <u>Fils</u>. Use Logit (manually log a call) <u>Feature</u> i 1 3 If your calls are not automatically logged, Logit lets you manually log call information when you are connected to an external call. Being able to store information for your current call can be helpful in many situations. For example, you may want to: record a caller's information without using paper and pencil, record only selected calls that you personally choose, as opposed to using Call Log automatically, and 		Press \underline{NEXI} or Q to display the next selection.		
 4. The display shows Los all calls. If you want to log all calls, answered and not answered at the telephone, press <u>OK</u> or <u>Feeeture</u>. OR Press <u>NEXT</u> or to display the next selection. 5. The display shows No <u>autologging</u>. If you do not want Information to be automatically logged, press <u>OK</u> or <u>Feeeture</u> OR Press <u>NEXT</u> or to return to the first selection. 6. To exit, press <u>Fils</u>. Use Logit (manually log a call) <u>Feeture</u> 1 3 If your calls are not automatically logged, Logit lets you manually log call information when you are connected to an external call. Being able to store information for your current call can be helpful in many situations. For example, you may want to: record a caller's information without using paper and pencil, record only selected calls that you personally choose, as opposed to using Call Log automatically, and 	3.	that were unanswered at your telephone but answered elsewhere in the system, press <u>OK</u> or Feature		
answered and not answered at the telephone, press OK or Feature OR Press NEXT or I to display the next selection. 5. The display shows No autologging. If you do not want Information to be automatically logged, press OK or Feature OR Press NEXT or I to return to the first selection. 6. To exit, press File. Use Logit (manually log a call) If your calls are not automatically logged, Logit lets you manually log call information when you are connected to an external call. Being able to store information for your current call can be helpful in many situations. For example, you may want to: record a caller's information without using paper and pencil, record only selected calls that you personally choose, as opposed to using Call Log automatically, and		Press <u>NEXT</u> or q to display the next selection.		
Press <u>NEXT</u> or i to display the next selection. 5. The display shows No <u>autologging</u> . If you do not want Information to be automatically logged, press <u>OK</u> or <u>Feature</u> O R Press <u>NEXT</u> or i to return to the first selection. 6. To exit, press <u>Fils</u> . Use Logit (manually log a call) <u>Feature</u> i i 3 If your calls are not automatically logged, Logit lets you manually log call information when you are connected to an external call. Being able to store information for your current call can be helpful in many situations. For example, you may want to: record a caller's information without using paper and pencil, record only selected calls that you personally choose, as opposed to using Call Log automatically, and	4.	answered and not answered at the telephone, press <u>OK</u> or		
 5. The display shows No autologging. If you do not want Information to be automatically logged, press OK or Feature O R Press NEXT or to return to the first selection. 6. To exit, press Pils. Use Logit (manually log a call) Feature 1 3 If your calls are not automatically logged, Logit lets you manually log call information when you are connected to an external call. Being able to store information for your current call can be helpful in many situations. For example, you may want to: record a caller's information without using paper and pencil, record only selected calls that you personally choose, as opposed to using Call Log automatically, and 		•••	P	
Press <u>NEXT</u> or b to return to the first selection. 6. To exit, press b Use Logit (manually log a call) Feature b If your calls are not automatically logged, Logit lets you manually log call information when you are connected to an external call. Being able to store information for your current call can be helpful in many situations. For example, you may want to: record a caller's information without using paper and pencil, record only selected calls that you personally choose, as opposed to using Call Log automatically, and	5.	The display shows No autologging. If you do not want Information to be automatically logged, press <u>OK</u> or		
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Use Logit (manually log a call) If your calls are not automatically logged, Logit lets you manually log call information when you are connected to an external call. Being able to store information for your current call can be helpful in many situations. For example, you may want to: record a caller's information without using paper and pencil, record only selected calls that you personally choose, as opposed to using Call Log automatically, and	_			
If your calls are not automatically logged, Logit lets you manually log call information when you are connected to an external call. Being able to store information for your current call can be helpful in many situations. For example, you may want to: record a caller's information without using paper and pencil, record only selected calls that you personally choose, as opposed to using Call Log automatically, and			Las interest	
log call information when you are connected to an external call. Being able to store information for your current call can be helpful in many situations. For example, you may want to: record a caller's information without using paper and pencil, record only selected calls that you personally choose, as opposed to using Call Log automatically, and			·····	
Being able to store information for your current call can be helpful in many situations. For example, you may want to: record a caller's information without using paper and pencil, record only selected calls that you personally choose, as opposed to using Call Log automatically, and	lt loo	your calls are not automatically logged, Logit lets you manually call information when you are connected to an external call.		
in many situations. For example, you may want to: record a caller's information without using paper and pencil, record only selected calls that you personally choose, as opposed to using Call Log automatically, and	Be	ing able to store information for your current call can be helpful		
record only selected calls that you personally choose, as I opposed to using Call Log automatically, and	in	many situations. For example, you may want to:		
opposed to using Call Log automatically, and		record a caller's information without using paper and pencil,	1	
			,1	
	I	quickly record caller information before a caller hangs up.		
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		Call Log / 101
To man	ually log an external call:	يد روپار م
≬OF Pro	essFeature all all all all all all all all all al	he Norstar
Use Au t	tobumping	eature 8 1 5
Autobum when yo log entr	bur log has a set number of entries that it can pping is a feature that lets you tell Norstar pur log becomes full. When Autobumping is y causes the first entry to be deleted. If Au pur Norstar system will not log new calls wh	what to do ON, a new itobumping is
OF] [6.] [] [.
may di	all Log n enter your Call Log to view storedinforma splay; special characters. These are describe cription of Displays, later in this section. To	ed in detail in
1. Pre	ess Feature 8 1 2.	
	e display shows the number of previously r ld) and the number of new, unread items (N	
OF To OF To	view new items, press <u>NEW</u> or II., ? return to an item viewed when you last exi	ېنې د مغر ted the log,
pre	essessessessessessessessessessessessess	

102 / Call Log	
Navigate within Call Log You can navigate within your Call Log to view a particular log entry. You can also scroll within an entry itself.	
1. To scroll through an entry, press <u>MORE</u> or	
2. To exit, press Ris.	
Erase Log Items It is necessary to routinely erase read log items to make space for new items in your log.	4
1. Navigate to the item you want to erase.	
2. Press_ERASE_or_(Hold].	g or growing
3. To exit, press 🖽.	·]
If you accidentally erase an item, you can undo the erasure.	, '
 Immediately after accidentally erasing an item, press <u>UNDO</u> or (Hold]. 	
2. To exit, press Als.	And the second sec
Call from Call Log You may find it helpful to place calls from within your Call Log. Each stored caller number may vary according to the information	
associated with that particular call. If the caller number involves a Centrex or PBX system, the first few digits may need to be "trimmed" to make the caller number dialable. If the number that you want to call is long distance or uses line pool access, digits	7911
may need to be added to the beginning of the number.	
Place a call	691)
Navigate to the log item for the number that you want to dial.	- 1
 Display the number and edit it if necessary to make it dialable (the instructions for adding or trimming digits follow). 	EA)
3. Press an external line or line pool button.	
	— 1

Call Log / 103 ^{4.} Lift the receiver. This is not necessary if Handsfree is Programmed at your telephone.	
5. The displayed number is dialed.	
Trim a number involving Centrex or PBX _, To trim the caller number:	
1. Press <u>TRIM</u> or ⇒ <u>■</u> once for every digit that you want to remove.	
 Add digits for long distance or line pool access Add digits to the number by pressing the appropriate dial pad digits, just as you would do to dial. 	
 To remove digits you have added, press <u>BKSP</u> or ⇒ → →<td></td>	
Optional Password You have the option of accessing your Call Log through a password. If you forget your password, there is a facility in Administration programming to clear it (and then you could enter a new password from your telephone).	
Assign a password to your Call Log	

- 2. Enter your four-digit password. The display shows Repeat New:..
- 3. Re-enter your four-digit password. The display shows Password changed. which confirms that your password has been assigned.
- Using your Password to enter Call Log

- Press Feature 8 Q 1. 2 to enter Call Log.
- If you have programmed a password, Password: appears. 2.
- Enteryour four-digit password. 3.

Change your password

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New password ...

- Press* Feature * Q 5]. The display shows Old Passwrd: 1.
- 2. Enter your old password. The display shows New Passwrd:...

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104 / Call Log			Call Log / 1,
 Enter your new four-digit password. The displays shows Repeat New 	··· ·· ·	49/1234567890123	The "slash" symbol (~) indicates that
 Re-enter your password. The display shows Password changed, which confirms that your password has 		NEXT ERASE MORE	been truncated.
been changed. Delete an assigned password After assigning a password to your Call Log, you may later	- 1	Jan 4 9:00a 3X NEXT ERASE MORE	This is the repeat call counter, shown along with time and date display. It indicates the number of calls you have received from the same caller.
decide that you do not want to use a password at ail.		Autobumping ON	The Autqbumping feature is active.
1. Press Feature * 8 5. The display shows Old passwrd:	Per Lang	Autobumping OFF	The Autobumping feature is
 Enter your old password. The display shows New passwrdt 		Cal 1 (s > bumped	deactivated. One or more calls have been
3. Press OK or Hold . The display shows			autobumped.
No ⊭s⊌d assigned, which confirms that your password has been deleted.		Call for you	There is one new item in the Call Log.
Related features		Calls for you	There are two or more new items in the Call Log.
The same Call Display information as in Call Log is displayed, but it is not recorded in a log.		Call 1099ed	The call was successfully logged with Logit.
Displays		Hold or release	Your active call must be held or released before entering Call Log.
You will see some of the following displays as you use Call Log.		In use: SETNAME	The external line is in use.
12:KATE SMITH NEXT ERASE MORE This is a Call Log item with its sequence number. When the first digit is underlined, it is a new item.		Item erased	The item was erased from the Call
123KATE SMITH NEXT ERASE MORE This indicates that the call was answered.	العب	Line001)227 NEXT ERASE MORE	This display shows that this call was answered at telephone 227.
12HATE SMITH This indicates a long distance call.		Line001 Logit NEXT ÈRASE MORE	This display shows that this call was manually logged.
· 1)		Line001 NEXT ERASE MORE	This display shows that this call was not answered.
		Log is empty	Your Call Log is empty.
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106 / Calli on

Page.

CallLog		3-ni i V	
Log is full	No additional calls can be logged until you either turn Autobumping ON, or you delete some items in your log.		The caller's number is unavailable.
Messages & Calls MSG CALLS F	This indicates that there are one or more items in your Message Waiting List, and there are one or more new entries in your Call Log.		You may want to use the punch-out overlay, which is provide the Call Log Feature Card. This card is available in a separa ordefable Call Display Button Cap Kit. Please contact your Customer Service representative.
New calls begin	This appears before the first "New" item when navigating from the "Old" items to the "New".		The long distance indicator, as well as the caller's name and number, may not be shown in the log, depending on the Call
No free lines	All lines in the pool are in use.		Display services provided by your local telephone company.
No info to log	${}_{\boldsymbol{b}}No$ information is available on the call.		For tips on programming Call Logs, see the Call Display serving section.
No log assigned	No log space has been assigned to the telephone.		
No new items	There are no new calls in the Call Log.		
No old items	There are no old or "viewed" items in the Cell Log.		
No resume item	The resume item is no longer in the Call Log due to Autobumping, repeat call update, or log reallocation.	and a second	*
Private name	The caller's name is private.		
Private number	The caller's number is private.		
Release calls	On an M7100 Telephone, the active call must be released before entering Call Log.	1	
1:Unknown call	 The caller's name and number are unknown. 		£
1:Unknown name	The caller's name is unavailable.		₹
			PO84264702 Modular DR5.1 System Coordinator O

Call Log 7 107

1.1.14

Call Park



Park a call

You can suspend a **call** so that it can be retrieved from any telephone in your system.

- 1. Press Feature 7 4.
- Use the Page feature to announce the retrieval code 2. displayed by your telephone.

Retrieving a parked call

- 1. Select an internal line.4 OR If you have an M7100 Telephone, pick up the receiver.
- 2. Dial the call park retrieval code.

Displays

You will see some of these displays while parking a call. You may see some of these displays while retrieving a parked call.

Already parked	The person you were talking to has already parked your call. You cannot park the same call.		Your Installer sets the Call Park prefix in Configuration programming If the Call Park Prefix is set to None, parking is disabled.
Get call first	You have attempted to park a call with no active call on your telephone. If the Call you wish to park is on hold. you must reconnect to it before you can		Your installer also sets the Call Park Callback delay in Configuration programming. External calls parked for longer than the program delay are returned to your telephone.
Invalid number	park it. You have entered an invalid retrieval code.		Internal calls parked are not returned to the telephone that parked the call and there is no callback reminder.
No call on: 181	There was no call on the retrieval code you entered.		
No call to park	Ýou have attempted to park a call, but there are no calls at your telephone.	E	*
Modular DR5.1 System Coo	rdinafor Guide PO84264702	and a second distance	PO84264702 Modular DR5.1 System Coordinator Guide

4.0 Call Pickup / 109

You have tried to park a conference call. Split the conference and park the calls separately. The person who retrieves the calls can reconnect the conference. Record the code shown. Use Page

(Feature 6 0) or press PAGE to announce the call and its retrieval code.

All available retrieval codes are in use. Transfer the call or take a message instead.

Notes

Park denied

Parked on: 402

Parking full

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When you park a call, the system assigns one of nine codes for, the retrieval of the call. These codes consist of the Call Park prefix, which may be any digit from 0 to 9, and a two digit call number between 01 and 09. For example, if the Call Park prefix is 4, the first parked call is assigned Retrieve Park coda 401.

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and the second second

110 / Call Pickup

Call Pickup

You can pick up a call that is ringing at another telephone.

Directed Pickup

You can **answer any** telephone that is ringing in your **Norstar** system

1. Press Feature 7 6.

2. Enter the internal number of the ringing telephone.

Group Pickup

Your **Norstar** system **cap** be divided inio as many as nine Pickup groups. If you are a member of a pickup group, you can pick up a call that is ringing at any telephone in your pickup group.

1. Press Feature 7 5.

Trunk Answer

Feature 800

Feature

Feature 7 6

75

The Trunk Answer feature allows you to answer an external Call that is ringing at any other telephone in your office.

Trunk Answer works only with calls that are ringing on lines for which a Service Mode is active and if Trunk Answer is ON in Administration programming.

1. Press Feature 8 0 Q

Displays

You may see some of these displays while using a Call Pickup feature.

Already joined Y te tr y th c tr y Denied in admin

You are already connected to the telephone that made the call you are trying to pick up. This can happen if you are on a call to a co-worker, your co-worker dials the number of a telephone in your Pickup group, and you attempt to pick up that call.

Your telephone is not a member of a Pickup group.

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1:

Pickup denied





No button free

You have tried to pick up a call when i you have no line button available.

(Pickup) There is no call that you can., pick up or the call that was ringing has already been answered.

(Trunk Answer),.The call that is ringing is on a line that is not in a Service Mode.

You have attempted to pick up a call on someone else's private line.

Enter the internal number of the telephone that is ringing. (You may use an Internal Autodial button to do this.)

If you decide not to answer a ringing call once you have activated Directed Pickup, press Feature, The call will continue to ring.

Notes

Call Pickup cannot be used on private lines. Group Pickup can not be used to retrieve a camped call.

To use **Directed** Pickup, the telephone must be ringing. If, for example, the auxiliary ringer is ringing, but the call is not ringing at a telephone, the call cannot be answered using Directed Pickup. It must be answered normally at a telephone that has a flashing indicator for the call, or by using Trunk Answer.

If a call is ringing on an Answer button, you can use Directed. Pickup to answer the call by entering the internal number of any member of the Answer group. 4

If there is more than one incoming call at a telephone in a pickup group a call ringing on the Prime line is answered first followed by calls on external lines and, finally, calls on internal lines.

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112 / Call Pickup

If there is more than one incoming Call on lines in a Service Mode. the Trunk Answer feature picks up the external call that has been ringing the longest.

The System Coordinator can assign telephones to one of nine Pickup groups in Administration programming.

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Call Queuing / 113 Call Queuing / 113

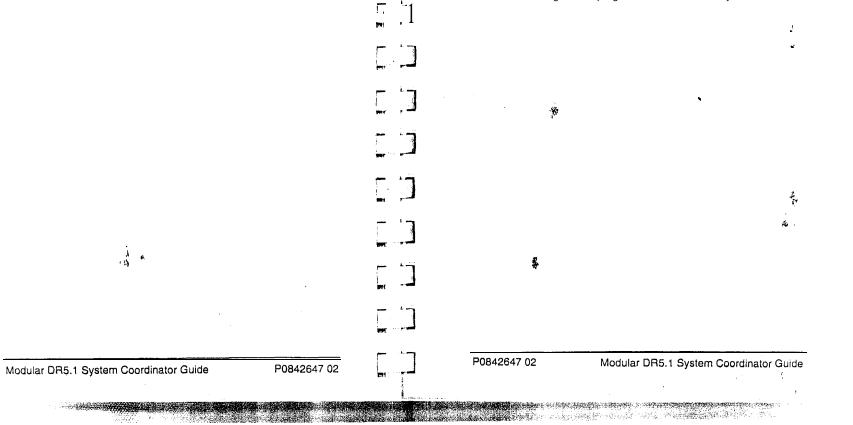
When you have more than one call ringing at your telephone, you can choose the call that has the highest priprity.

- 1. Press Feature 801.
- 2. The system connects you to the call that has the highest priority.

Notes

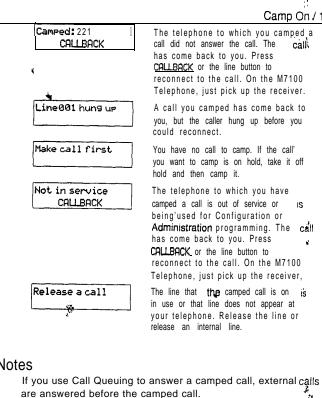
Call Queuing answers incoming calls before callback and camped calls.

Call Queuing can be programmed onto a memory button.



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114 / Camp On	<u> </u>		Camp On / 11
Camp On Camp a call You can send an external call to another telephone, even if all its		Camped: 221	The telephone to which you camped a call did not answer the call. The call has come back to you. Press <u>CALLBACK</u> or the line button to reconnect to the call. On the M7100 Telephone, just pick up the receiver.
lines are busy.	and the second	Line001 hung up	A call you camped has come back to you, but the caller hung up before you could reconnect.
 Dial the number of the telephone you want to camp the Call to. 		Make call first	You have no call to camp. If the call' you want to camp is on hold, take it off hold and then camp it.
Related features * Transfer Camp On is a variation of the Transfer feature.		Not in service CALLBACK	The telephone to which you have camped a call is out of service or is being'used for Configuration or Administration programming. The call
Displays You will see some of the following prompts while Camping a call. 221 Camp max CRLLBACK You tried to camp a call to a telephone that already has a camped call. The call has come back to you. Press the CRLLBACK button or the line button to reconnect to the call. On the M7100 Telephone, just pick up the receiver.		Release a call	has come back to you. Press CALLBACK or the line button to reconnect to the call. On the M7100 Telephone, just pick up the receiver, The line that the camped call is on is in use or that line does not appear at your telephone. Release the line or release an internal line.
221 DND The person to whom you redirected a call has Do Not Disturb active on the telephone. The call has come back to you. Press the CALLBACK button or the line button to reconnect to the call. On the M7100 Telephone, just pick up the receiver.		are answered before the	to answer a camped call, external calls e camped call.
Came denied You have tried to camp an internal call. You can only camp external calls.		if one is available. If not and Camp tones.	, there is just a message on the display
Came to: CANCEL Dial the number of the internal telephone to which the call will be sent.		- "é	
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1 Camp On / 115 call

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116 I Conference	pant _{a s} a sann	نيم. Conference / 117'
Conference Feature 3	in the particular sector of the sector of th	Independently hold two calls For all Norstar telephones except the M7100 Telephone you can put the two people on hold independently so that they cannot talk to each other
 Create a confer nce You can talk to t₄ o people at once. Make sure you have two calls, one active and one on hold. Press Feature 3. Take the held call off hold (this is automatic on the M7100 Telephone). Conference using Privacy Feature 0 (1) Normally your calls are private; no one else can be used on the distribution and join in your conversation. You can turn privacy off for a call allowing another person with the same line to press the line button and join in your conversation, forming a conference. Press Feature 0 (2). Tell the other person to press the line button and join your conversation. Disconnect one party You can disconnect one party from a conference and continue talking to the other. Press the line button of the call that you want to disconnect. The call that you want to keep is automatically put on hold. OR For the M7100 Telephone, press Feature 0 (1) which places one party on hold. Press Feature 0 (2) which places one party on hold. Press Feature 0 (2) which places one party on hold. Press Feature 0 (2) which places one party on hold. Press Feature 0 (2) which places one party on hold. Press Feature 0 (2) which places one party on hold. Press Feature 0 (2) which places one party on hold. Press Feature 0 (2) which places one party on hold. Press Feature 0 (2) which places one party on hold. Press Feature 0 (2) which places one party on hold. Press Feature 0 (2) which places one party on hold the party that you want to keep. Press Feature 1 (2) The call is disconnected. To speak to the gramating party, press the line button of the held call, of for the M7100 Telephone, press, Feature 0. 		 to each other. 1. Press the line button of one person. The other person is automatically put on hold. 2. Press med , the second person is put on hold: You can reestablish the conference. 1. Take one call off hold. 2. Enter the Conference feature code. 3. Take the other call off hold. Put a conference on hold You can put a conference on hold, allowing the other two people to continue speaking to each other. 1. Press we /li>
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18 / Conference		 -
other two people talking if both of the other peop some restrictions: At lea	rself from the conference and leave the by pressing (Feature 7 0). However, ble are outside the system, there are ast one of the outside callers must have	
bisplays	must be on a disconnect supervised line.	
	You are trying to add a fourth party to your conference call, or to join two conferences together. Release one	
Access denied	call from the conference before adding another, or keep the two conferences separate. Privacy control cannot be used on	
	internal or conference calls.	
Conf. on hold	You have put a.conference call on hold.	
Conference busy I	You have tried to make a conference call, but your system is already. handling its maximum number of conference calls.	
Line001 221 TRANSFER	You are on a conference with the two lines or telephones shown You can drop out of the conference and leave the other two parties connected (Unsupervised Conference) by pressing <u>TRANSFER</u> or entering the Transfer feature code.	
Make calls first	You have tried to set up a conference call, without having made the calls that are to be connected. Make both calls first.	
M ake call first ,	You have tried to use Privacy Control when you are not on a call.	

Conference / 119 You have tried to set up a conference Make second call call while connected to only one caller. Put your first call on hold, make a second call, and enter the Conference feature code-again. You have put a conference call on No button FREE hold from your M7100 Telephone, then tried to get another line. Your M7100 Telephone can handle only two lines at a time, and your conference call is using both of them. You have activated the Conference Press held line feature with one call active and another on hold. Press the line of the call on hold to bring that person into the conference. Notes Only the person who established the conference can process the conference in any of the ways just described.. The Conference feature supports only three people. lf you are using an M7100 Telephone: Your conference is connected as soon as you enter the Conference feature code. There is no need to take the second call off hold. To split a conference, press Feature 3. Then, press . to change from one caller to the other. You cannot independently hold two calls. . Se . You cannot join an existing two-party call to establish a Privacy conference although you can use the Privacy sfeature for calls at your telephone.

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120 / Conference

When a third person joins a conversation on a line that has privacy turned OFF, the call becomes a conference. All the rules applicable to a **conference** apply except that there is only. one-line in use, instead of the normal two. This means that you cannot split a conference set up using Privacy.

In certain situations, you may experience lower volume levels when using the Conference feature with two external calls.

The volume level of an external call is determined by the central office line and may not match the volume level of an internal call. Therefore, if you make a conference with an external caller and an internal caller, the volume of the internal caller may be louder than the volume of the external caller.

When two external callers are **conferenced together**, they may complain about low volume levels. The reason the volume is **low** is that the **Norstar** conference has connected the two external calls together thus doubling the length of the connection.

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Modular DR5.1 System Coordinator Guide



COS Password

COS Password / 121

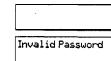
Change your Class of Service

A Class of Service password is a six digit code that lets you switch from your current Class of Service to one that lets you dial **numbers** prohibited by your current Class of Service.

- 1. Press Feature 6 8.
- 2. Enter your COS password.

Displays

You will see the first of these displays when entering a COS password, you may also see the second.



(Blank display) Enter your password. It will not be shown on the display.

You have entered a password that is not programmed into your system.

Notes

If you use your Norstar system from outside the office, you may have to enter a Class of Service password to gain access to the system. Class of Service passwords can give you access to features not available with the regular Class of Service. See Using Norstar remotely.

You must enter a Class of Service password each time you wish to make a call using a Class of Service not normally avallable on your line or telephone.

Norstar allows up to 100 Class of Service Passwords.

The System Coordinator defines Class of Service passwords in Administration programming.

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122 / Customizing your telephone

Customizing your telephone

You can change the way a telephone works in several ways. Some of the following features are assigned to telephones in Administration ppgramming. You can turn other features ON and OFF at individual telephones.

Automatic Handsfree

Automatic Handsfree lets you make or answer a call without having to pick up the receiver or press the Handalite button. The telephone's internal microphone and speaker turn on automatically when vou make or answer a call.

The System Coordinator assigns Automatic Handsfree capability to a telephone in Administration programming. Full Handsfree capability must be assigned to a telephone before Automatic Handsfree capability can be assigned to it. This is also done in Administration programming.

This feature is not available on M7100 Telephones.

- Note: With Automatic Handsfree enabled, held calls are immediately put on handsfree when you retrieve the call by pressing the flashing line button.
 - Feature

You can set the contrast level of your telephone display.

| * 7. 1. Press Feature

Contrast Adjustment

2. Choose the contrast level you like best. The number of contrast levels available varies from one Norstar telephone to another.

This is the display you will see in Contrast adjustment.

Contrast level 2 DOWN UP OK

Press a number for the contrast level you want or press UP or DOWN. Press Hold Or OK to set the new contrast level.

Customizing your telephone / 123

Dialin	g Modes (Feature (* 8 2
You	can set the dialing mode of your telephone	
1.	Press Feature * 8 2.	

Choose the dialing mode you want. 2.

Norstar supports three dialing modes; Automatic Dial, Pre-Dial, and Standard Dial. All three modes support on-hook dialing. (On-hook dialing means dialing a call without picking up the receiver.) The special features of the Automatic and Pre-Dial modes are available only when you dial on-hook.

The Dialing Modes feature code cannot be programmed bnto a memory button.

Standard Dial

In Standard Dial mode, you make a call by selecting a line and dialing the number. If you have a Prime line, it is selected automatically when you lift the receiver or press Handsfree

Standard Dial does not support on-hook dialing on an M7100 Telephone. If you have an M7100 Telephone, use the Automatic Dial or Pre-Dial feature for on-hook dialing.

Automatic Dial

If you have a Prime line assigned to your telephone, Automatic Dial allows you to dial a number without selecting a line. Your Prime line is selected as soon as you start dialing a number. Automatic Dial does not work if your Prime line is in use.

Telephones connected to an Analog Terminal Adapter (ATA) cannot use Automatic Dialing.

Pre-Dial

Pre-Dial allows you to enter a telephone number, check it, then change it before actually making the call. The call is not dialed until you select a line or line pool, or pick up the receiver.

You can pre-dial both external and internal numbers. You must, however, select the correct type of line (external or internal) for the type of number you have entered.

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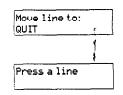
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24 / Customizing your telephone	Customizing vour telephone / 12
24 / Customizing your telephone If all the lines on your telephone are busy, you will not be able to enter a telephone number. If your telephone starts ringing while you are pre-dialing a number, you can stop the ringing by turning on Do Not Disturb (Feature 8 5). This does not affect numbers you are entering.	You can program a memory button for one-touch switching, between languages. Program Feature * 5 0 Q onto the button. Pressing the button will switch you back and forth between English and the alternate language. Feature * 5 Q 2 cannot be programmed onto a memory button.
This is the display you will see when selecting a Dial mode. Standard dial NEXT OK The current dial mode is shown. Press or <u>NEXT</u> until the dial mode you want appears. Press <u>How</u> or <u>OK</u> to select the displayed dial mode. If Automatic Dial is not available it is because you have no Prime line.	En français Telephone display messages will be in French. En español Telephone display messages will be in Spanish. In English Telephone display messages will be in Spanish.
Language Choice English You can select English as the language of your telephone display. 1. Press Feature * 5 0 1 Alternate Language You can select the alternate language as the language of your telephone display. 1. Press Feature * 5 0 2 Each Norstar system supports English and one alternate language. Norstar systems are available with either French or Spanish as the alternate language. Button caps are available in both alternate languages. y * You can select either English or the alternate language at each telephone. When your system is first installed, all telephones will use English.	 Move Line buttons You can move external lines to different buttons on your telephone. You can use this feature to arrange your lines in the way that makes the most sense to you. Press Freature * 1 Press the button you want to move the line from. Press the button you want to move the line to. You will see some of these displays while moving lines Invalid location You have tried to move a line to a button, such as a Handsfree/Mute button, or an Answer button. Press the button from: Press the button of the line you want to move. Press QUIT or Freature when you have finished moving lines.

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Press the button you want to move the line to. Neither of the buttons is erased. The lines, or the line and feature, simply switch places. The button you are trying to move is not a line button. If you are trying to switch a line and a feature, move the line to the feature button and not vice versa.

Pulse/Tone Dialing

Each external line is set to either pulse or tone dialing. Pulse dialing is the traditional method of dialing used by rotary dial or push button single-line telephones. Tone dialing allows telephones to communicate with other devices such as answering machines. Tone dialing is required to access the features that PBX systems may offer or to use another Norstar system remotely. (For more information, see the section Using Norstar remotely).

Your Installer sets your lines to pulse or tone dialing in Configuration programming.

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To switch from pulse to tone dialing If your external lines are programmed for pulse dialing, you can switch your telephone temporarily to tone dialing.

1. Press while on an active line. Once you hang up, your telephone returns to pulse dialing.

Ring Type

You can choose one of four distinctive rings for your telephone. This makes it easter to identify your telephone in an open office.

- 1. Press Feature * 6.
- 2. Choose the ring type you Want.

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	Customizing your telephone / 127
This IS the display you will se	e when choosing a ring type
NEXT OK	Press 1, 2, 3, 4 or NEXT. You near the selected ring for two seconds. Repeatuntil you hear the ring you prefer, then press (Home or <u>OK</u> .
Ring Volume You can set the volume at w	Feature (*) (*) () hich your telephone rings.
1. Press Feature * 8 0]. The telephone will ring.
2. Press 🚺 🚺 to adj	ust the volume.
This is the display you, will se	e while setting Ring volume.
	Press either side of the volume bar

Telephone Administration Lock

Telephone Administration Lock limits tke ways in which you can customize your telephone. There are three types of Telephone Administration Lock: Full, Partial, and None.

Full Administration Lock lets you change the contrast of your telephone's display, use Ring Type, Ring Volume and Button Inquiry, and control the volume of your speaker.

Partial Administration Lock allows you to forward your calls, turn on Do Not Disturb and Service Modes, and use the Background Music, Send Message, Ring Again, Privacy, and Trunk Answer features.

None (No Administration Lock) allows you to access all features that are programmed for your telephone. The System Coordinator assigns Administration Lock to each telephone in Administration programming,

Telephone Administration Lock does not affect call handling features.

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Feature

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28 / Customizing your telephone	
elated features Autodial Feature * 1 / Feature * 2 You can program your telephone's memory buttons to dial frequently used numbers with the Autodial feature.	
Feature programming Feature Image: Seature You can program feature codes onto your telephone's memory buttons using the Feature programming feature. Image: Seature Im	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -
You can program personal speed dial numbers onto speed dial codes 71 to 94 using the Personal Speed Dial programming feature.	
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Dialing / 129

Dialing

One of the most important features of your telephone system is the ability to dial telephone numbers. Many features require you to dial telephone numbers. The displays associated with dialing are listed here.

Note:

When dialing telephone numbers keep in mind that if there is a 10 second pause between dialing one digit and the next, fhe call will be cancelled by the system. You must reenter the dialing sequence from the beginning.

Direct-dial

You can dial a Direct-dial telephone with a single digit. The Direct-dial telephone is usually in a central location, such as a receptionist's or secretary's desk. It is usually a Prime telephone and a Central Answering Position (CAP).

External line access code

The external line access code is the number you dial to get an external line. You will need to use an external line access code if your Prime line is an internal line. The code will connect you to a line pool through your internal line.

If your Prime line is an external line, or if you select an external line on your telephone, you will not need an external line access code. You will always need an external line access code on an M7100 Telephone. ŝ

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Your Installer assigns the external line access code in Configuration programming.

Last Number Redial

Feature 5 You can redial the last external number you dialed.

1. Press Feature 5

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Modular DR5.1 System Coordinator Guide

130 / Dialing Priority Call Feature 1 6 9 Feature 12 Ring Again If you get a busy signal when you call someone in your office, If you can't get through to someone on your Norstar system you can interrupt them using Priority Call. because their telephone is busy or there is no answer, you can have the Norstan system tell you when they hang up or next use Speed Dial Otature their phone. The Speed Dial feature lets you dial programmed numbers by entering speed dial codes. 1. Press Feature 2 before you hang up. ÷ You can also use Ring Again to tell you when a busy line pool Displays becomes available. You will see some of these displays while selecting lines and dialing telephone numbers and in response to the numbers you Using Ring Again cancels any previous Ring Again requests at dial. your telephone. 9. You are dialing using Pre-Dial. To # 2 Cancel Ring Again QUIT BKSP Feature erase an incorrect digit, press BKSP or When the number is You can cancel a ring again request by entering the Cancel Ring ⇒ **■**) complete, select a line or lift Again feature code. the receiver. Saved Number Redial Feature 67 221 busy The telephone you have called has no PRIORITY LATER internal lines available. You may press You can save the number of the external call you are on LATER to use the Ring Again or (providing you dialed the call) so that you can call it again later. Message features or press PRIORITY Press Feature 6 7 while you are still on the calf. 1. to make a Priority Call. You can dial a saved number. This prompt remains on your display 95551234 TRANSFER as long as you are on a call you have 1. Press Feature 6 7 when, you are not on a call. dialed. You may transfer the call by pressing TRANSFER. Related features Your telephone is already connected Already joined Autodial Feature * 1 / Feature 1*2 to the telephone you are trying to call. The autodial feature lets you program telephone numbers onto Check your active line buttons, and memory buttons for one-touch dialing. return to that call. Calling 221 Wait for the telephone to be Dialing modes Feature answered, or press LATER touse the LATER Norstar supports three different methods of dialing. They are Ring Again or Messages features. described in the Customizing your telephone section under the Calling 221 Wait for the telephone to be heading Dialing Modes. ş PRIORITY LATER answered. If no one answers, you may press LATER to use the Ring Again or Line Pools Messages features, or press PRIORITY Line pools give you access to many external lines. to make a Priority Call. PO64264702 Modular DR5.1 System Coordinator Guide PO84264702 Modular DR5.1 System Coordinator Guide

Dialing / 131

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Dialing			Nosavednumber
Can't ring again	You cannot use Ring Again on your current call. You can only use Ring Again while you have a busy signal on an internal call or line pool request or while an internal call is ringing.		Not in service
Do not disturb PRIORITY LATER	The telephone you are calling is in Do Not Disturb mode. Press L <u>ATER</u> to use the Ring Again or Messages features, or press PRIORITY to make a Priority Call.		On another call LATER
In use: 221	The line you have chosen is in use at another telephone. Use a different line, or wait until the line is free.		
lnva 1 id number	You have entered a number that does not exist.		
Line denied	You have attempted to use someone else's private line.		Ring Again? YES NO EXIT
Line in use	The line you have chosen is in use. Try another. If the line remains in use and never seems to clear, it may be hung. See Lines in the System Features section for information on hung lines.		Select a line
Line001 TRANSFER	Enter the digits of the number you want to dial.		YES NO
No button free	You have tried to make or receive a call when no line button was available.		
No last number	You have not dialed an external telephone number since the last power interruption or system reset.		Notes The maximum numb
Nolineselected	Either you have no Prime line or your Prime line is busy. Select a'line manually before dialing.		Saved Number Redia
No number saved	You have tried to save the number of an incoming call. You can only save numbers that you have dialed yourself.		or Saved Number Re enter the Last Number code when the Auto
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telephone number. The Saved ÷ął Number Redial memory is empty. n service You have entered the number of a telephone that is not in service. nother call The telephone you have called is on LATER another call. Press LATER to use the Ring Again or Message features. ricted call The call you are trying to make is not allowed for your Class of Service. Make your call on a line or telephone' that is not restricted, or use a Class of Service password to bypass the restriction. **Again?** Press YES to use Ring Again, Press NO NO EXIT if you prefer to send a message. See Message and Ring Again. Either you have no Prime line, or t a line the* Prime line is in use, or the line T programmed onto an Autodialer, Speed Dialer, or Hotline is in use. Select a line and dial again. message? Press <u>YES</u> to send a message. See NO Messages. You have dialed your own number. number 4

Redial, but have not first saved a

ximum number of digits that Last Number Redial or Number Redial records is 24.

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copy the telephone number from a Last Number Redial d Number Redial button onto an Autodial button. Simply e Last Number Redial or Saved Number Redial feature nen the Autodial feature asks you to enter a number.

Dialing / 133 You have tried to use Saved Number!

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134 / Dialing

Each telephone can save only one number at a time with Saved Number Redial, not one number for each line.

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Do Not Disturb / 135 Do Not Disturb 5 sture] Do Not Disturb You can stop calls from ringing at your telephone. 1. Press Feature 8 5. · Only Priority Calls will ring at your telephone. A line button will flash when you receive a call, but the call will not ring. You can refuse to answer a particular call (including a Priority Call). . . : 1. Press Feature 8 5 while your telephone is ringing. Cancel Do Not Disturb Feature 8 5 You can cancel Do Not Disturb. Ą 1. Press Feature # 8 5 Displays Do not disturb Your telephone is in Do Not Disturb mode. To cancel Do Not Disturb, press Feature # 8 5. Allowgalls Your telephone is receiving calls normally. Notes If you use Do Not Disturb while an external call is ringing, the call wilt be forwarded to the Prime telephone. It may also be [.,] will be forwarded to the Prime telephone. It may also be $$\xi$$ answered by anyone whose telephone shares the line it is on. Once you turn Do Not Disturb on, calls will be forwarded to the Prime telephone only if there is no other telephone on which the line appears. (The Delayed Ring Transfer feature transfers all unanswered calls to the Prime telephone after a specified time.)

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136 / Do Not Distu

Do Not Disturb on Busy

When you are busy on a call and a second call comes in, your telephone rings so filly to alert you to the second call. If you find this second ring distracting, you can have the system prevent a second call from disturbing you by assigning Do Not Disturb (DND) on Busy to your extension in Administration programming.

When DND on Busy is turned on for the set, internal and private network callers hear a **busy** tone instead of ringing when you are on the **telephone**. External callers are transferred to the prime set used in your system.

Notes

If you use DND on Busy, the line indicator for an external incoming call still flashes, but your telephone does **not** ring.

If an external call uses a target line (for example, calls coming in on auto-answer loop start, E&M or DID lines), the call will be processed according to the configuration of the target line. If the target line is busy, the caller may hear a busy tone or be routed to the prime set for the target line regardless of the DND on Busy programming for the set.

Forward on busy takes priority over DND on busy.

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	gramming		
	gam a button u can program a feature	code onto a memory but	tton
1.	Press Feature * Q		
2.	For all telephones othe the button you want to	er than the M7100 Telepl program.	hone, select
3.	Enter the feature code	you want to program ont	to the button.
	e a button u can erase a memory bu		ature + 1
1.	Press Feature * Q feature code.	. This is actually the Exter	nal Autodia
2.	For all telephones othe the button you want to	er than the M7100 Teleph erase.	none, select
3.	Erase the button by pre-	essing OK OF Hold .	
	J cannot erase Answer, H tons.	andsfree/Mute, Intercor	n, or line
Υοι	n Inquiry u can check the function of ton on your Norstar telep	of any line. Intercom, or	
1.	Press Feature * 0.		2.
2. F	For all telephones other the button you want to l		none≉press
3.	Read the display.		
	en you are labeling or re uiry so that you won't acc		

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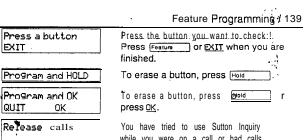
5... Re

138 / Feature Programming

Displays

You will see some of the following displays while programming, erasing, or checking, buttons. A variety of displays appear in Button Inquiry. See the display <Feature name> for information applicable to these displays.

<feature name=""></feature>		i i
SHOW OK	The name.of the feature assigned to a button is displayed when you press the button. <u>SHOW</u> appears when there is more information available. Press • or <u>SHOW</u> for additional information.	
Enter code:	lf you are checking a Speed Dial button, enter the two-digit Speed Dial code that you want to check.	هه میروند
Enter Digits	To erase a button, press Hold	L ₉ 4
F. QUIT CLEAR	While entering a feature code you can press Feature or QUIT to quit programming or CLEAR to clear out the characters you have entered. The system will accept the entry as soon as you enter a valid feature code.	
Feature code: QUIT	Press Feature and enter the feature code you want to program onto the button. Invalid codes cannot be entered.	
Featuremowed	You have programmed a button with a feature that was already programmed	F i i
j e kj	onto another button. The feature has moved to the button you just programmed. Its original button is blank.	
Hold or release	You cannot program an autodialer or feature button while you are on a call.	1 1 1



Press the button you want to check:! Press Feature Or EXIT when you are To erase a button, press Hold To erase a button, press boold You have tried to use Sutton Inquiry while you were on a call or had calls

Notes

When this book tells you to enter a feature code, you can do so by pressing a memory button programmed with that feature code. In some cases, pressing the button a second time cancels the feature. 2

on hold.

On the M7100 Telephone, Sutton inquiry shows your internal number followed by the function assigned to your single memory button.

Any memory button not programmed as an external or inte'rnal line, target line, Answer button, or Handsfree/Mute button, is available for programming features.

The following feature codes cannot be programmed onto a memory button: Long Tones and any code beginning with 💌 except Language Choice and Contrast Adjustment.

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 Group Listen Group Listen Group Listen You can let people in your office listen in on a call. Press Feature Q You will hear the caller's voice through your telephone's speaker. Continue to speak to the caller through the telephone receiver. The caller will not hear people in your office. Cancel Group Listen Feature Q Q Q]
 Group Listen 1 You can let people in your office listen in on a call. Press Feature a Q 2. You will hear the caller's voice through your telephone's speaker. Continue to speak to the caller through the telephone receiver. The caller will not hear people in your office. Cancel Group Listen Feature B D 2 You can cancel Group Listen for the current call. 	Handsf
1. Press Feature 1 a o 2	Make calls You can m must have 1.' Press spea 2. Dial y 3. Spea Answer ca You can a
Group Listen is canceled automatically when you hang up the Group Listen call.	1. When telep autor
Visplays You may see one of these displays with Group Listen.	your 2. Spea
Make call first You have tried to use Group Listen when you are not on a call. <i>Piewuch acceiveri</i> ed to use Group Listen without picking up the receiver.	Mute Han You can s speak pri handsfree 1. Press
Notes Keep the receiver away from the speaker, or you may hear feedback. The higher the volume, the more the feedback. Press the Reg button to prevent feedback when hanging up. You can switch a*Group Listen call to Handsfree by pressing Hattiggt(***). To switch back to Group Listen, enter the Group Listen feature code again.	You can t handsfree 1. Pres Regular c You can Pres Handsfre You can
Modular DR5.1 System Coordinator Guide P084264702] 1. Lift 1 PO64264702

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Handsfree/Mute / 141

Handsfree

Handsfree/Mute

lls without iiftina the receiver make calls without lifting the receiver. However, you ve a Prime line assigned to your telephone. ss Handelree . The telephone's internal microphone and eaker are automatically turned on. your call. eak normally. calls without lifting the receiver answer calls without lifting the receiver. en your telephone rings, press Hangs!ree . The ephone's internal microphone and speaker are omatically turned on if you have a Prime line assigned lo ur telephone. eak normally. ndsfree switch off the telephone microphone so that you can rivately to someone in your office while you are on a ee call. ess Handelree. The microphone is turned off. turn the microphone back on again and continue your ee call. ł, Handsires ess [1 call to Handsfree turn any regular call into a handsfree call. ess Hand and hang up the receiver. ee to regular call turn a handsfree call into a regular call. the receiver.

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100 A 3

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Notes

The indicator next to <u>Hadder is solid</u> when you are in Handsfree mode. It flashes when you mute the microphone.

In open-concept environments, use the receiver or a headset when Handsfree communication is not necessary, or when you need privacy during a call. Always tell the person you are speaking to that you are using Handsfree, and let them know who else is listening to the conversation.

Direct your voice toward the telephone. The closer you are to the telephone, the easier it is for the microphone to transmit your voice clearly to your listener.

Wait for your caller to finish speaking before you speak. The microphone and speaker cannot both be on at once. Your caller's voice may be cut off if you both speak at the same time. Noises such as a tapping pencil could be loud enough to turn on your microphone and cut off your caller's speech.

To prevent a possible echo, keep the area around your telephone free of paper and other objects that might screen your microphone. Turning down the microphone's volume (using) also prevents echo.

Place the telephone so that any unavoidable local noise (such as an air conditioner) is behind it. This limits the amount of disruptive background noise.

A Handsfree button is assigned to a telephone by the System Coordinator in Administration programming.

The Handsfree/Mute feature is not available on M7100 Telephones, 9

Hold / 143 Hold Hold Put a call on hold You can temporarily suspend a call. 1. Press Hold When a call is on hold, its indicator flashes on all telephones that have access to the line. The call can be retrieved from any of these telephones. Retrieve a held call You can connect to a call on hold. Press the flashing line button of the held call. Automatic Hold 4 You can switch from one call to another. 1. Press the line button of the caller you want to speak to. Your current caller is put on hold automatically. Listen on Hold If you have been put on hold, you can hang up the receiver while you wait for the other person to return. Press Hold 1. 2. Hang up the receiver. 3. Press the line button of the call. You may hear indications from the far end that you are on hold (for example, tones or music). 4. When the person you were talking to returns you will hear them through your telephone speaker. Lift the receiver and talk. Ŗ

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Exclusive Hold Feature 7 9 or Feature Hold You can put a call on Exclusive Hold so that it can be retrieved only at your telephone. Press Feature 7 9 or Feature [Hold]. The line appears busy on all other telephones, and the call cannot be picked up by anyone else in the office.

Music/Tones/Silence on Hold

External callers can hear either music, a periodic tone, or silence while they are on hold. in order for your caller to hear music, your company must have installed a music source.

WARNING

In accordance with U.S. copyright law, a license may be required from the American Society of Composers, Authors and Publishers, or a similar organization, if radio or TV broadcasts are transmitted through the Music on Hold feature of this telecommunication system.

Northern Telecom Inc. hereby disclaims any liability arising out of the failure to obtain such a license.

Your Installer sets this feature to music, tones, or silence in Configuration programming.

Notes

On the M7100 Telephone, Hold alternates between two lines: one active, one on hold. The M7100 Telephone cannot retrieve a call placed On hold by another telephone.

If the Automatic Handsfree feature has been assigned to your telephone, use the Handsfree/Mute feature instead of Listen on Hold.

Host System Signaling / 145

Host System Signaling

You, can access Host systems, such as Private Branch Exchanges (PBX) from Norstar by using Host System Signaling features (also known as End-to-End Signaling). These features either send a special signal to the host system or allow you to program delays required by host systems onto external Autodial buttons or Speed Dial codes.

Host system signaling codes

Link

Feature 7 1

If your Norstar system is connected to a Private Branch Exchange (PBX), you can use a Link signal to access special features.

The Link signal can also be included as part of a longer stored sequence on an External Autodial button or in a Speed Dial code. The Link symbol (25) uses two of the 24 spaces in a dialing sequence.

Pause

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Feature 7 8

The Pause feature enters a 1.5 second delay in a dialing sequence on an external line. This is often required for signaling remote devices, such as answering machines, or when reaching through to PBX features or Host systems.

You can obtain a Pause with one button press if you program the feature code onto a memory button. More than one Pause can be programmed onto an External Autodial button,

The Pause symbol (§) uses one of the 24 spaces in a draling sequences

For Pulse Dialing, ★ inserts a 1.5 second pause into the dialing sequence.

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146 / Host System Signaling

Programmed **Release** The Programmed Release feature performs the function of the Fus button in a programmed dialing sequence. When the system encounters Programmed Release in a programmed dialing sequence, it stops dialing and hangs up the call. The Programmed Release symbol (EI) takes up two of the 24 spaces in a programmed dialing sequence.

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Run/Stop

Run/Stop inserts a break point into a sequence of dialed numbers or characters used for automatic dialing. This may be necessary when you are connecting to a PBX or similar Host system.

For example, you may call a company with, an automated attendant that instructs you to dial the internal number you need. You can program the company number, a Run/Stop, then the internal number on one External **Autodial** button. Press the autodialer once to dial the company number. When you hear the automated attendant, press the autodialer again to dial the internal number.

The Run/Stop symbol (s) uses one of the 24 spaces in an External Autodial or Speed Dial sequence.

Displays

You may see this display while entering Host System Signaling codes.

Inval id code

You have entered a code that can only be used in a programmed Autodial or Speed Dial sequence, not on a call you dial directly. Programmed Release and Run/Stop are for use in programmed dialing sequences only.

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Feature

Host System Signaling /147

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Notes

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If your external telephone lines are programmed for Pulse Dialing, you can temporarily switch to Tone Dialing by pressing The after selecting the line. Tone Dialing lets your Norstar telephone communicate with devices and services that respond to tone signals, such as automatic switchboards, and fax or answering machines.

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148 / Line Pools

Use a line pool

A line pool is a group of external lines that can be shared by many telephones. You can use a line in a line pool to make an external call.

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 If you have a free internal line, dial a line pool access code on an internal line. (You do not need the Line Pool feature code.) If you. have no free internal line, press
 [Feature] 6 4 and then a line pool access code.

Everyone in the office should have a list of the line pool access codes for the line pools their telephones can use.

Displays

You may see some of the following displays while using a line pool. For displays associated with dialing telephone numbers, see the Dialing section.

Code:	Enter a line pool access code
Denied in admin	Access to the line pool you requested is denied in Configuration programming.
Invalid code 1	You have entered an invalid line pool access code.
Line in use	The line chosen by the system for your <i>line</i> pool request became active before connecting with your call. Retry the line pool request.
No button free	There is no free button on which the line pool line can appear.
No free lines	You have tried to access your line pool, but there are no lines in the line pool or all the lines are busy. Use Ring Again or call again later.

Line Pools / 149

Notes

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You do **Not** usually need to enter the Line Pool feature code to use a line pool. Simply dial the line pool access code on an internal line. If you have no free internal lines, you will need to use the feature code to get a line pool. You will also need it to program access to a specific line pool onto a memory button.

You can program a button to access a line pool by programming the Line Pool feature code and a line pool access code onto a memory button in Feature programming (Feature 3). When all the lines in a line pool are busy, the indicator for the Line Pool button turns on. The indicator turns off when a line becomes available.

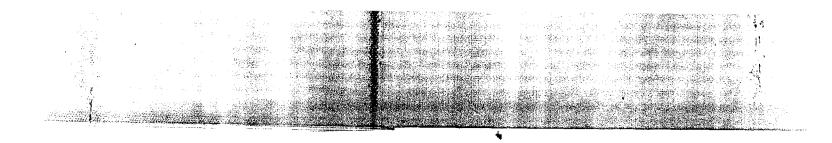
Your Norstar system can have 15 line pools, and a telephone can be programmed to access any number of them. $\frac{8}{9}$

You can use a line pool only to make external calls.

If no lines are available in the line pool, you can use Ring Again at the busy tone. You will be notified when a line in the line pool becomes available. See Ring Again.

Your Installer gives telephones access to line pools in Configuration programming. Each line pool is assigned a line pool access code in Configuration programming.

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150 / Line Redirection		
Line Redirection Feature 84		Acces
Redirect a line Line Redirection lets you send your external calls to a telephone outside the office. You may choose to redirect all your external lines or only some of them.		Inter
1. Press Feature 8 4.		<u></u>
2. Select the outgoing line to be used for redirected calls.		
3. Enter the number to which calls will be redirected.		*
4. Select the lines to be redirected.		
Cancel Line Redirection Feature 1 6 4 You can cancel Line Redirection.		
1. Press Feature	·	In use
2. Select the lines for which redirection is to be canceled.	- 10 A 10 A	<u> </u>
Related features Call forward Note the differences between Line Redirection and Call Forward. Call Forward forwards all calls that arrive at a particular telephone to another telephone within the Norstar system. Line redirection redirects only the lines you specify, no matter which telephones they appear on, to a telephone outside the Norstar system. Line Redirection takes precedence over Call Forward.		Line R QUIT
Displays while redirecting lines You will see some of the following displays while programming	F	No lin
Line Redirection. The displays you see while canceling redirection are listed after this chart. See the Dialing section for displays that occur while entering telephone numbers.	and for a	Outso
Continue entering digits. Press BKSP or		•

	Line Redirection / 151
ccess denied	You cannot perform line redirection on an M7100 Telephone.
Deniedinadmin	Line Redirection is not allowed on your telephone. To allow Line Redirection, the Allow Redirect parameter must be set to Y(Yes).
nter di9its <u>UIT_</u> OK	Enter the telephone number to which you wish to redirect calls using one of the following methods:
	Press an External Autodial button
*	 Enter an external telephone number of no more than 24 digits. Then, press House or OK.
	 Press Hold or <u>OK</u> if the line you have chosen as the outgoing line is a private network line that does <i>not</i> require you to dial <i>digits</i>.
n use: 221	You have tried to program redirection 'while someone else is programming redirection. Only one person can program line redirection at actime.
ncoming only	The line you are trying to use for redirecting calls is for incoming calls only. Choose an outgoing line.
ine Redirection JIT ADD REMOVE	Press ❥ or the <u>RDD</u> button to begin redirection. Press <u>REMOVE</u> or ♪ to cancel a previous redirection.
o line to use	You have one external line on your telephone, but you need a second line to perform line redirection. Redirect your external line using a line pool as the outgoing line.
utgoing line	You are attempting to redirect ,a line and the line you have chosen is the

outgoing line you have selected as a



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152 / Line Redirection Enter a valid line pool access code. Pool code QUIT This message appears when you have Programmed successfully redirected a line or successfully canceled redirection of a ъ line. You have attempted to redirect a line. Redir by 221 but someone else has already OVERRIDE redirected that line. You may press OVERRIDE or **C** to override the previous redirection and redirect the line as you wish. The destination you have chosen for Restricted call line redirection is restricted. Select the line that will be used to Select line out redirect calls out of the system. using QUIT one of the following methods: Press an external line button. Press an internal line button and dial a line pool access code. Press a line pool memory button. Press an External Autodial button. Press the lines that are to be Select line(s) redirected. To deselect a line, press it QUIT ALL again. You may press ALL to redirect all vour lines. Continue to press the lines that are to Select line(s) be redirected. Press OK or Hold ALL OK when you are finished. The line you are attempting to redirect Unequipped line cannot be redirected because the

hardware does not support redirection.

Displays while canceling redirection Redirection. Redir by 221 OVERRIDE Select line(s) QUIT ALL

Line Redirection / 153

. You will see the following displays while canceling Line

This line is redirected by someone else. Press OVERRIDE or Q to cancel redirection of the line. Press the lines that are no longer to be redirected. The lines light up as you press them. Once you cancel redirection for a line you cannot restore it by pressing the line again. You may press ALL to cancel redirection for all your lines. When you are finished, press OK or Hold

Select line(s) 🗞 ALL OK

Continue to press the lines that are no longer to be redirected. Press OK or Hold when you are finished.

Notes

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You can answer the telephone if it rings while you are in the middle of programming Line Redirection, but none of the ne Norstar call handling features will be available until the feature times out. If you need to use a Norstar feature to process the call, you must quit Line Redirection programming by pressing the Feature button. Do not press Ris or you will disconnect the call you are trying to process.

While you are programming Line Redirection you will not receive any indication of calls that do not actually ring at your telephone

The system does not check that the number you give for Line Redirection is a valid one. If you redirect to an invalid number, redirection will fail. Using an Autodialer to enter the redirection number helps avoid this possibility. An Autodialer used for line redirection must have a specific line programmed onto it.

154 / Line Redirection

If you use the $A \sqcup$ button to redirect all your lines, it is important that you wait until all the lines on your telephone light up before pressing Hold or QK. If you press Hold or QK before all the lines light up, those lines not lit will not be redirected.

Be aware of the consequences of redirecting your lines. If you redirect your target line to your home, for instance, and someone calls you from home, they will get a busy signal when the system tries to call the telephone they are using. Companies with offices in different time zones should avoid situations in which the lines from the eastern office are redirected to the west and those from the west are redirected to the east, This could result in a costly long distance redirection loop.

The system can be set up so that redirected calls give a brief ring on telephones in the **Norstar** system as they are redirected. These calls cannot be answered within the system until you cancel redirection.

The line chosen for redirecting calls on other lines can still be used normally when it is not busy on a redirected call. To avoid redirection failing because the chosen line is in use, choose a line **pool** with several lines in it.

In certain situations, callers may experience lower volume levels when you use Selective Line Redirection to an external location.

You cannot use the Line Redirection feature on an M7100 telephone, or a telephone connected to an ATA.

that you can signal device	ets you control the length of a tone so is such as fax or answering machine r than the standard 120 milliseconds.
1. While on a call, press Fea	ture 8 Q 8.
	ttons to produce the appropriate tone for as long as you hold down the
Displays	
You will see some of the f Tones.	ollowing displays while using Long
Long Tones:	At the appropriate time, press any dial pad button. Hold each button down for
	as long as necessary. You can cancel Long Tones by pressing Feature or Hole
Make call first.	You have tried to use Long Tones when you are not on a call.
Tones denied	The person you are calling has pressed How , canceling your long tones.
Notes	4
Long Tones can be used of You can use internal lines device connected to an A	on any call except a conference call. s of the Norstar system to activate a nalog Terminal Adapter (ATA) in e; or external lines to access devices m.

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156 I	Messages

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Messages

The Messages feature allows you to leave a message on the display of another Norstar telephone, and lets you know if you have any messages, waiting. The Messages feature uses a Message Waiting List to keep a record of your internal messages and your (external) voice mail messages (if you subscribe to a Voice Message service with visual Message Waiting Indication). From your Message Waiting List, you can:

THE CONSTRAINTS

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- view your messages,
- call back the internal caller who left a message,

and the second
- · erase an internal message,
- call your Voice Message Center that left a message(s), and,
- clear a message sent by your Voice Message Center (the message still remains at the Center until it is erased there).

Send a message

You can leave a message on the display of another telephone in your Norstar system.

- Press Feature 1
- A one-line display shows Message to:
 O R
 A two-line display shows Message list. Press <u>ADD</u> to display Message to:
- Enter the internal number that is to receive your message.
 OR , h
 Press an Internal Autodial button.
- 4. Your recipients display identifies that the message has arrived.

Show your sent messages	1 sture
On a telephone with a two-line display, you can sho	w and scan
the messages you have sent.	

1. Press Feature 1. The display shows Message list.

Messages / 157
2. Press <u>SHOW</u> to display your first sent message.
Cancel a sent message Feature # You can cancel a message that you have sent to someone.
1. Press Feature 1 The display shows Cancel for:
2. Enter the internal number for the message that you want to cancel.
Notification of message(s) If another user in your Norstar system or your Voice Message Center has sent you a message, your display reads Message for you or Messages for you. If you also have items in your Call Log, your display reads Messages & Calls.
Enter your Message Waiting List To <i>enter</i> your Message Waiting List:
1. Press Feature 6 5. The display shows the first item.
Navigate through your Message Waiting List To navigate forward through your list, press <u>NEXT</u> or F To navigate backward, press F .
Call from your Message Waiting List From your Message Waiting List, you can call the person (or your Voice Message Service) who sent the message. First, you may want to view your messages and decide if you want to reply to them.
1, Press Feature 6 5. The display shows the first message.
2. Press NEXT or 💓 to scroll through the list of messages.
 3. To call a particular number, press <u>CALL</u> or [0]. The telephone number that is dialed to access your Voice Message Center is programmed in Administration programming. This telephone number is dialed'automatically when you press <u>CALL</u> or [0].
If you wish to use a line other than the programmed line, exit from the Message Waiting List and dial the Voice Message Center telephone number using normal dialing methods.

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Feature

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158 / Messages	
Remove items from your List Feature	i.
received from your Voice Message Center. When you clear this	•
message from your Message Waiting List, it still exists at your Voice Message Center until you erase it there. To erase a voice	€ 1, 1
message, refer to your Voice Message Center documentation.	· ,
1. From an idle telephone, press Freature P Q 5 to erase or clear the first message (either an internal message or a	1*
message from ypur Voice Message Center).	100 C. 1
0 R From within your Message Waiting List, press <u>CLEAR</u> or	17. ja 1
ERASE or Hold for the item that you want to remove.	
Related features	ta f
The status display for the Message Waiting List shares the same	-
display with the Call Log status display.	¶a í
Displays	ing P
You will see some of the following displays while sending	tet i

messages. 11.221 When reviewing the messages you have sent, press NEXT to view the next NEXT ERASE EXIT message or ERASE to erase the message on the display. This is the Message Waiting List 221 called display for internal messages. Press NEXT CALL ERASE NEXT to see the next message. Press CALL to reply to the message. Press ERASE to erase the message. You have tried to send a message to a 'Can't send ms9 11 1 Norstar Analog Terminal Adapter. The Norstar Analog Terminal Adapter does not have a display so it cannot show a message. You have entered an invalid number Cancel denied when attempting to cancel a message.

	Messages / 159
Cancel for:	Dial the internal number to which you I sent the message you wish to cancel
Cleared)LINENAM NEXT	You have cleared an external message from your Message Waiting
, , ,	List. The message itself still exists in your Voice Message Center until you erase it there.
Enased) 221 NEXT	You have erased an internal message,
Hold or release	This messace does not certain to M7100 Telephones. If you try to access your Message Waiting List while on an active call, this display advises you to hold or release the present call.
In use: 221	You are trying to call from your Message Waiting List. The line that you-are trying to use is being used by the identified Norstar user.
LØ1:LINENAM VMs9 NEXT CALL CLEAR	This is the Message Waiting List display. For that Particular voice message, it tells you the line the call came in on, and the name of that line.
Message denied	You have tried to send a message to an invalid internal number or to a telephone that is out of service .
Messa9e for YOU MSG	You have a one item in your Message Waiting List, and you have no new entries in your Call Log. Press <u>MSG</u> to review the message.
Message list SHOW ADD EXIT	The <u>SHOW</u> display button appears only if you have outstanding messages, Press <u>SHOW</u> to review or erase messages you have sent. Press <u>ADD</u> to send a new message.
Message to:	Enter the internal number of the telephone to which you would like to send a message,

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Messa9es & Calls MSG CALLS	This indicates that there is more than one item in your Message Waiting List, and there are one or more new entries in the Call Log.
Messa ges for you MSG	You have more than one item in your Message Waiting List, and you have no new entries in your Call Log. Pres <u>MSG</u> to review the messages.
No button free	You have no line button free with which to reply to a message.
No me ssa9es I	You don't have any messages to cancel or there are no messages to scan through.
Nonumberstored	There has been no number programmed for the Voice Message Center. To program the number. see the Programming chapter.
Release calls	If you have an M7100 Telephone, thi is displayed when you try to reply to message while on an active call. Υοι must release your call before entering your Message Waiting List.
Their list full	You are trying to send a message to telephone whose message waiting li is full.
Your list full	You have tried to send a message bu your telephone's list of sent message is full. Cancel one of the messages you have sent, if possible, or wait ur you have received a reply to one of those messages.

Notes

You can send up to four messages to different telephones, including your Voice Message Center. If your telephone is a Direct-dial telephone or a Central Answering Position, you can send messages to 30 telephones.

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You can receive up to four messages from different telephones, including your Voice Message Center. The single message from your Voice Message Center may pertain to several voice messages.

Any message can be canceled either by the person who sent it or by the person who received it.

If your reply to a message is forwarded or is answered at another telephone using the Call Pickup feature, the message remains on your telephone until you cancel it or successfully contact the telephone that sent the message.

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Modular DR5.1 System Coordinator Guide

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Answer buttons	
You can use an Answer button to monitor calls	on another
person's telephone. All calls to the monitored te	
on the Answer button. Such calls may also ring	
with the Answer button, depending on how the	
configured. Answer buttons are most useful for monitors incoming calls for one or several man	•
	ayers.
If more than one call is ringing at the manager's	s telephone, the
first call appears on the secretary's Answer bu	
subsequent calls appear on intercom buttons if available.	f they are
lodular DR5.1 System Coordinator Guide	P O 8 4 2 6 4 7 0

Thrs section covers the basic features of your Norstar telephone

You use the Feature button to invoke Norstar features. See the

Ł You use the Hold button to put calls on hold. See the Hold

section. It is also used in place of the OK display button on

Memory buttons are the buttons with indicators on the M7208,

M7310, and M7324 Telephones, and the dual buttons without

memory button without an indicator on the M7100 Telephone

indicators on the M7310 Telephone. There is also a single

and optional equipment that may be attached to it.

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Feature button

Hold button

Memory buttons

Buttons

Morstar Telephones

Using Norstar features section.

telephones with one-line displays.

Norstar Telephones / 163

2

Fils

More than one secretary may have an Answer button for a single manager. This allows two or more secretaries to handle calls for a busy manager.

Similarly, one person can handle calls for up to four other people. using separate Answer buttons for each person.

A secretary's telephone should have a memory button with an indicator programmed as the Internal Autodial button for the managers telephone. This allows the secretary to call the manager and to deal efficiently with incoming calls.

You cannot make calls using Answer buttons,

Aotodial buttons

Autodial buttons let you dial numbers by pressing a single button See the Autodial section.

Line buttons

You have one line button for each line assigned to your telephone. You press the line button to select the line you want to answer or use to make a call. Having several line buttons allows you immediate access to more than one line so you can handle and monitor calls easily. The M7100 Telephone does not have line buttons and can have a maximum of two lines. You can switch between its two lines, one active and one on hold, by pressing Hold

Programmed Feature Buttons

Programmed feature buttons allow you to invoke Norstar features by pressing a single button. See the Feature Programming s. section.

Release button

Pressing [Fils] ends a call. You do not have to put the receiver down. Also ends feature programming.

While you are on a call, do not press Rs to end a feature you are using (such as Show Message). If you do, you will disconnect the call. Use Feature instead.

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Feature

Hold

Norstar Telephones 164 / Norstar Telephones You may see this prompt when you try to use a headset. 1 -() Volume Bar Need Handsfree You are attempting to use a headset:! The Volume Bar controls the volume of the receiver, telephone but Handsfree/Mute is not ring, Handsfree speaker, headset and Background Music. Press programmed for your telephone. If either end of the volume bar ((a)) to adjust the volume. you are not using a headset, you have accidentally plugged your Headset telephone receiver into the headset outlet on the bottom of the telephone. A headset lets you keep both hands free while you are on a call without others overheanng your telephone conversations. Hearing Aid Compatibility If you plug a headset into your telephone while you are on a call, The receivers on all Norstar telephones are compatible with your telephone's microphone and speaker (or your receiver if you hearing aids as defined in the FCC rules, Part 68, section are on a regular call) are turned off and your headset microphone 68.316. and earpiece are turned on. Note: Not all hearing aids are optimized for use with a You must have the Handsfree/Mute feature assigned to your telephone. telephone if you wish to use a headset. Wall Mounting While you are using the headset, the receiver and the switch in Most Norstar telephones can be mounted on a wall. Contact the' the telephone cradle do not work. Installer or Service Representative if you wish to have any telephones in your system wall-mounted. A headset cannot be used on an M7100 Telephone. ¥č. Usina a headset While on a call using the headset, press Handalree to turn your headset on and off. To answer a call, press Handsiree <u>Б</u> To adjust the volume, press the appropriate side of the volume bar (🔹 🔹). To change to a Handsfree call while you are on a call using your headset, unplug YOUI headset. Your telephone's microphone and speaker turn on and the call becomes a Handsfree call. (It is a good idea to put the call on hold while you do this.) PO84264702 Modular DA5.1 System Coordinator Guide PO842647 02 Modular DR.51 System Coordinator Guide

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Page Feature 6 0

Make a page announcement

You can make announcements over the Norstar system. The tone preceding a page announcement up to now was always on. Now it is possible to turn the page tone off for all users in Configuation programming. This is convenient if the office environment is often busy with Page Announcements.

- 1. Press Feature 6 0
- 2. Choose a page type.
- 3. if necessary, choose a zone.
- 4. Make your announcement.
- 5. Press Ris.

Page types are :

a	through the telephone speakers (Internal Page)
q ₂]	through an external speaker (External Page)
តា	both Internal and External (Combined Page)

Paging shortcuts

Instead of entering the Page feature code followed by the page type, you can enter the following shortcut codes.

Internal	Feature 6 1 and	zone (0 to 6)
External	Feature 6 C	(code 2 has no zones)
Combined	Feature 6 3 and	zone (0 to 6)

Related features

200 - OAC 10
VO	ice	Call

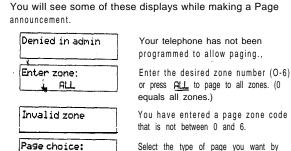
You can make an announcement to one person by placing a voice call to their telephone.

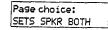
66

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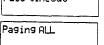
Feature

Displays









The time allotted for paging has expired. The prompt appears while you are paging and shows the page zone you have chosen. Press <u>reasure</u> or Paus when you are finished paging.

or SETS - Internal Page

2 or SPKR - External Page

3 or BOTH - Combined Page

Page / 167

A page is **already** being made in the page zone you have requested.

Notes

Page zone O equals all zones.

Paging busy

When making an announcement using External Page or Combined Page, the Long Tones feature is automatically activated for the external paging system only. This allows you to control optional equipment with the Long Tones feature.

pressing:

Each N&star telephone can be assigned access to Paging and is assigned to one of six page zones, or to none, in Administration programming.

P O 8 4 2 6 4 7 0 2

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Make sure that everyone who needs to make page announcements has a list showing which telephones are in which page zones.

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b



Priority Call

Feature 6 9

If you get a busy signal when you call someone in your office,' you can interrupt them. Use this feature for urgent calls only.

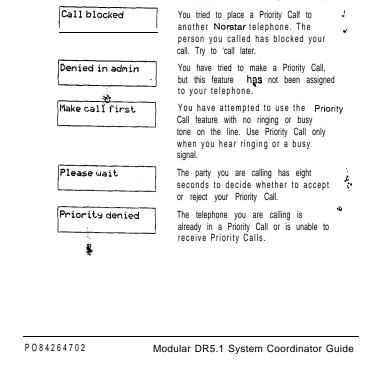
1. Press Feature 6 9.

2. Wait for a connection, then speak.

A person who receives a Priority Call while on another call has eight seconds to accept or reject the call. If the person does nothing, the Priority Call feature puts the active call on Exclusive Hold and connects your call.

Displays

YOU will see some of these displays while making a Priority Call.



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Notes

You can make a Priority Call only while your telephone display shows one of the following prompts:

'Do not disturb PRIORITY LATER	
On another call PRIORITY LATER	
Calling 221 PRIORITY LATER	ţ
221 busy PRIORITY LATER	

If Call Forward is active at the telephone you are trying to reach, your call will be forwarded.

If the telephone receiving the Priority Call is in a conference call, the other two parties are automatically put on hold when the Priority Call is accepted.

The System Coordinator gives a telephone permission to make Priority Calls in Administration programming.

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Service Modes



4.4

Service Modes / 171

Switch to a service mode

You can use Service Modes to make your Norstar system behave differently at different times of day. For instance, all incoming external calls can be directed to a security guard's telephone during the night, or calls to one receptionist can be directed to another receptionist during lunch.

- Press Feature 8 7 on a Control telephone. (See Special 1. telephones for information on Control telephones.)
- 2. Select the service mode you want.

Cancel Service Modes

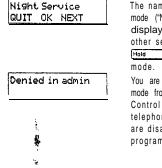
Feature # 8 7 You can return to normal operation or cancel the manual override of an automatic mode. You cannot cancel an automatic mode,

Press Feature # Q 7 1.

Displays

,3





The name of the current service mode ("Night Service", in this case) IS displayed. Press F or NEXT to see other service mode options. Press Hold or OK to select the desired Ļ. You are trying to activate a service mode from a telephone that is not a

Control telephone or Direct-dial 4 telephone, or else all service modes are disabled in Administration programming.

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172 / Service Modes

Notes

A service mode allows you to change which lines ring at which telephone, to activate or deactivate the auxiliary ringer for certain. lines, and to have **Direct-dial** calls ring at the Extra-dial telephone. Service mobes can be programmed to begin automatically at certain times or they can be turned on and off at the Control telephone. The System Coordinator sets up service modes in Administration programming.

Automatic service modes are indicated by an asterisk (*) before the name of the service mode on the display. You can neither manually activate nor **cancel** automatic service modes, **a**!though you can override them with manual modes.

Direct-dial calls to a Direct-dial telephone will ring at the Extra-dial telephone (designated in Administration programming) only when the Service Modes feature code ((Eeature 1-7) is entered at that Direct-dial telephone. Note that only the Extra-dial telephone will be activated, not the actual service mode (unlessthat Direct-dial telephone is also a Control telephone).

Norstar provides three service modes named "Night", "Lunch", and "Evening". You can change these names to suit yourself. In addition, there is normal service when no service modes are active.

Special Telephones ½ 173

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Special Telephones

You can assign several special functions to the telephones in **your Norstar** system. Except where **noted**, you do not need special hardware. A special function is assigned to a telephone either by your Installer in Configuration programming or by the System Coordinator in Administration programming.

Alarm telephone

An Alarm telephone is a Norstar telephone with a two-line display (M7310 or M7324 Telephones) that your Installer has assigned to display Norstar's system alarm codes, should they occur.

If an alarm message appears on the Alarm telephone's display, follow these instructions:

- 1. Record the alarm number.
- 2. Press TIME and record the time displayed.
- 3. Call your Installer or Service Representative and report the alarm code.
- 4. After speaking to your Installer or Service Representative, press <u>CEAR</u>.

This is an example of an alarm display.

Alarm: 61-4-2 TIME CLEAR

Report this alarm and the time it occurred to your Installer or service representative.

Central Answering Position

A Central Answering Position (CAP) is a Norstar M7324 Telephone that your Installer has defined as a CAP in **Configuration** programming. You can connect one or two Norstar CAP m odules to the CAP to increase the number of lines it can handle. there can be from one to five CAPs in a Norstar system. It is best if the CAP is also the Prime telephone and Direct-dial telephone for the lines and telephones it serves.

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The CAP module displays the busy/not busy status of the telephones in your system by using the triangular indicators beside Internal Autodial, Programmed Feature or line buttons. A	
CAP can support 1 20 external lines. You can send up to 30 messages from ,a CAP.	[]]
For more information, see the Norstar Central Answering Position User Card.	
Control telephone The Control telephone lets you place the external lines for which it has responsibility into agd out of Service Modes. See Service Modes.	
Direct-dial telephone You can dial a Direct-dial telephone with a single digit. The Direct-dial telephone is usually in a central location, such as a	
receptionists or secretary's desk. It is usually a Prime telephone and a Central Answering Position (CAP). There may be up to five Direct-dial telephones in your system,	
but each telephone in the system is assigned to a single Direct-dial telephone. There is a single Direct-dial digit for the whole system that lets each telephone call its assigned Direct-dial telephone.	
Each Norstar Direct-dial telephone can send up to 30 messages and each can invoke Service Modes to activate the Extra-dial telephone.	
Your Installer sets up Direct-dial telephones in Configuration programming. The System Coordinator assigns telephones to Direct-dial telephone? In Administration programming.	
ه Emergency telephone The Emergency telephone is a single-line telephone (not a	
Norstar telephone) that functions independently of the Norstar system. You can use the Emergency telephone when your Norstar system is not working.	
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Special Telephones 7175

Emergency Transfer/Power Failure Cut-through provides basic telephone service on external line 001 through an Emergency telephone if the power fails or if a system error occurs.

The Emergency telephone is usually located near the Key Service Unit (KSU). Each KSU can support two Emergency telephones, and each Trunk Module can support one additional Emergency telephone.

Extra-dial telephone

In Service Modes, a second telephone can be assigned to ring on calls made to a Direct-dial telephone. There may be one Extra-dial telephone for each Direct-dial telephone, and it may be a'different telephone in each Service Mode.

Hotline telephone

You can call a programmed internal or external telephone number simply by picking up the receiver of the Hotline telephone (or by pressing harding).

A Hotline telephone can be set up to dial an operator or an emergency number. You should put a notice by the Hotline telephone to let people know which number will be dialed when they lift the peceiver.

If the Hotline telephone is set up to dial an external number using the Prime line, there must be an external Prime line assigned to the telephone. If not, the Hotline call will fait.

The System Coordinator sets up the Hotline telephone, the telephone number it dials, and the line on which that number is dialed, in Administration programming.

To bypass a Hotline >

Press agine button, or use the Pre-Dial or Automatic Dial feature before you pick up the receiver or press

/ Special Telephones	»=.h	Speed Dial
The following displays may occur at a Hotline telephone. Line in use Image: Im		Make a Speed Dial call You can quickly dial external telephone numbers that have be programmed onto Speed Dial codes.
external number on a Prime line but the Hotline telephone does not have a Prime line. This must be corrected in Configuration or Administration programming.	[*] . [*] . T	 Enter the appropriate two-digit Speed Dial code. Norstar supports two types of Speed Dial codes, Personal and System. System Speed Dial codes are from 01 to 70. The System Administrator can assign numbers to System Speed I
No free 1 ines No free 1 ines I The Hotline has been set up to dial an external number on a Prime line but the Hotline telephone has an internal Prime line and no access to line pools This must be corrected in Configuration or Administration	••• •• •• •• •	codes for the entire system in Administration programming. Personal Speed Dial codes are from 71 to 94 and may have different numbers assigned to them on each telephone. Users can program their own Personal Speed Dial numbers.
programming. This message may also appear if the line pool assigned to the telephone is busy.	<u> </u>	Program Personal Speed Dial You can add or change a Personal Speed Dial number on you telephone. 1. Press Feature * 4.
rime telephone Each line in a Norstar system can have a telephone assigned to it as a Prime telephone. Calls not answered at thair normal destinations are transferred to the Prime telephone. The Prime telephone is usually the telephone on the receptionists desk and it is often the Control telephone and a Central Answering Position		 Enter the code that you want to associate with a telephone number. If you Want to include a line selection for this number, select the line or line pool. For the M7100 Telephone, you can only select a line pool. Enter the number you want to program.
as well. A Prime telephone is assigned to a line in Configuration programming.	····	5. Press <u>DK</u> or <u>Hold</u> . 4
See the Answering the telephone section for the displays that may occur at a Prime telephone.	_ I _] _ 1	€.
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Speed Dial / 177

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178 / Speed Dial

Displays

You will see some of these prompts while using or programming Speed Dial.

9. QUIT BKSP OK	Continue entering the number you wish to program. You can change the number by pressing the left side of the volume bar or by pressing <u>BKSP</u> . When you are finished, press <u>Hous</u> or <u>QK</u> .	
Access denied	You have tried to program a Personal Speed Dial number while someone else on the system is in Configuration b or Administration programming.	
Autodial full	You have tried to enter a new Personal Speed Dial Number, but the memory for these numbers in your Norstar system is full.	
Enter code:	Enter a two-digit code between 71 and 94 for the personal speed dial number you want to program.	
Enter digits QUIT OK	Enter the telephone number you wish to program exactly.as you would if you were dialing it normally. When you are finished, press [Hour] or <u>OK</u> .	
Invalid code	You have entered a code outside the code range (01–94).	
Line in use	The line associated with the speed dial number you are trying to use is busy.	
No number stored	There is no number stored on the Speed Dial code you have dialed.	
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Speed Diamary

Program and HOLD	If you want to program a line or line pool selection for this Speed Dial select the line or line pool. Otherwise, enter the telephone number you wish to program exactly as you would if you were dialing it normally. When you are finished, press Home
Pro gi ran and OK QUIT [,] OK	If you want to program a line or line pool selection for this Speed Dial, select the line or line pool. Otherwise, enter the telephone number you wish to program exactly as you would if you were dialing it normally. When you are finished, press Fiote OK.
Select a line	There is no line associated with the speed dial number you are trying to use. Select a free external line or line , pool and enter the Speed Dial feature code again.
Speed dial>	Enter a two-digit Speed Dial code (01–94). You must enter the zero for codes 01 to 09.
*	
Notes	
	ween using Personal Speed Dial and They differ only in how you program
Speed Dial numbers may Signaling codes.	include line choices and Host System
	4 subject to the same Class of Service as System Speed Dial numbers can be aling restrictions.
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Normally, Speed Dial numbers are shown on the display while they are being dialed. System Speed Dial numbers may be programmed to show a Speed Dial name instead of the number, keeping the actual number confidential.

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System features / 18

System features

The following features are available for the entire Norstar system.

Accidental Disconnect Protection

If you accidentally drop the receiver back into the telephone cradle while answering a call, you can quickly retrieve the call.

Pick up the receiver again or press Handstree, You are connected to your call.

Automatic telephone relocation

If Automatic telephone relocation is enabled, you can move your telephone from one Norstar jack to another without it losing any of its custom programming. Your Installer enables Automatic telephone relocation in Configuration programming.

Background Music

Feature 8 6

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You can listen to music through your telephone speaker.

1. Press Feature 86.

WARNING

In accordance with U.S. copyright law, a license may be required from the American Society of Composers, Authors and Publishers or a similar organization if radio or TV broadcasts are transmitted through the Background Music feature of this telecommunication system.

Northern Telecom Inc. hereby disclaims any liability arising out of the failure to obtain such a license.

The must stops automatically if you make or answer a call.

Your **Installer** makes this feature available to all telephones in Configuration programming. You will need to supply a music source, such as a radio, attached to your KSU.

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P O 8 4 2 6 4 7 0 2

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Cancel Background Music Feature You can cancel Background Music.

- 1. Press Feature # 8 6.
- Class of Service

The Class of Service for a call consists of all the **Norstar** features and lines available to you for that call. This is determined by the features assigned to the telephone in Administration programming, including all Dialing Filters and Remote Access Packages.

Users who need to dial numbers not permitted by the Class of Service of the line or telephone that they are using, can switch to a different Class of Service by entering a Class of Service Password. Remote users can change the set of Norstar features available to them by entering the DISA DN followed by a Class Of Service password.

internal numbers

Each telephone in the **Norstar** system has its own internal number. The length of internal numbers in your system may be from 2 to 7 digits for a non-expanded system or 3 to 7 digits for an expanded system. All numbers in your system are the same length. Your Installer sets the length of internal numbers (also called the DN length) in Configuration programming.

To find out your internal number, use the Button Inquiry feature (Feature) (*) on an internal line button. On the M7100 Telephone, Button inquiry shows your internal number followed by the function assigned to your single memory button.

Lines

The following features and characteristics are associated with the use of lines.

System features / 183

Disconnect Supervision

When Disconnect Supervision is assigned to a line, the Norstar system monitors it to detect if an external caller hangs up. This allows the system to release the line for other uses. Your Installer assigns disconnect supervision to lines in Configuration programming. Disconnect supervision can be turned on and off only on Loop start trunks. E&M and DID trunks are always disconnect supervised.

Line appearance

Any of the lines in your system may appear at any of your telephones. Your Installer assigns lines to telephones in Configuration programming.

Usually, only the lines that are appropriate for a particular person appear at that person's telephone. When a line is assigned to a telephone it is automatically given a line button on that telephone, if a button is available. The M7100 Telephone has line buttons for its lines.

Normally, you cannot answer a call that is ringing on a line that does not appear on your telephone. To pick up such a call, use Call Pickup, Call Park, or Transfer.

Hung lines

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A line that has been redirected using Line Redirection may remain busy after a call is over. If this happens, the outgoing line for the redirection will also remain busy. These are hung lines and you must clear them.

A line indicator that has been solid for a long time is the only real indication that a line is hung. However, the solid line indicator, may also indicate a genuine call in progress. Make reasonably sure that, the line is indeed hung before clearing it or you may cut off a **rea** conversation.

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You can clear a hung line only at the telephone that was used to redirect the line.

- 1. Press Feature (*) at the telephone that was used to redirect the line.
- 2. Press the button of the redirected line.
- 3. Press <u>SHO₩</u> or .
- 4. Press **DROP** or \mathbf{Q} . The hung line is cleared.

Clearing the redirected line clears the outgoing line for the redirection as well.

Line Pools

A line pool allows each telephone access to external lines from a group (or "pool") of external lines. You can access such lines by pressing an Intercom button and entering a line pool access code or by pressing a memory button programmed with the line pool feature code.

Private lines

A Private line is exclusive to a particular telephone. Calls that are put on hold or left unanswered on a Private line cannot be picked up at any telephone except the Prime telephone.

Prime line

Your telephone can be programmed to select an internal or external line or a line pool automatically whenever you lift the receiver or press receiver. This is your Prime line.

Ringing Line Preference

Each telephone in the **Norstar** system can be programmed to ring or remain silent for incoming calls on any external lines that appear on the telephone.*

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For example, a telephone may have buttons assigned for lines a to 3, but have only lines 1 and 2 programmed to ring. An incoming call on any of the three lines causes a line button indicator to flash, and the telephone can be used to answer the call. This is especially useful for people who monitor other telephong lines, but want only their own lines to actually ring.

If a telephone has an external line as a Prime line, that line is usually made to ring.

Target line

A target line is used to route a call dialed with a particular number to a particular telephone or group of telephones. A target line can be used for incoming calls only. A single trunk may provide connections to several different target lines. This allows each person or department in the office to have their own number without having as many trunks on the system as there are people in the office.

Overflow Call Routing

If a call comes in for a target line that is busy, **Norstar** routes the Call to the Prime telephone for that target line. If there is no Prime telephone **assigned** to the target line or if a call cannot be directed to a target line, the call will go to the Prime telephone for the incoming trunk.

System Speed Dial

Speed Dial codes 01 to 70 are the same for the entire system. See the Speed Dial section for details.

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186 /Time features Timefeatures, The Time features let you check the present time and how long you have spent on a call. ገጠጠ Feature Call Duration Timer You can see how long you spent on your last call or how long ...3 you have been on your present Call. Press Feature 7 7 b 1. 2. Read the display. 803 Feature Show Time You can see the present date and time while you are on a call. Press Feature 8 Q 3. 1. Read the display. 2. Displays One of the following displays will occur when you use a Time feature. You have not made a call since your Make call first telephone's clock was last reset. The display shows the last call you 221 02:47 made, or the current call, end the total elapsed time in minutes and seconds. The display shows the present time. Apr 9 9:54 am 1

Transfer Feature 7.0 Transfer a call You can transfer a call to a telephone in your Norstar system, within the Norstar network, or external to Norstar; 1. Make a call, answer a call or take a call off hold. 2. Press Feature 7 0 (or Transfer if programmed). To transfer within the Norstar system: dial an internal 3. telephone number or press an Internal Autodial button. To transfer within the network or external to Norstar press a line button and dial the number to which you want to transfer the call, or press an External Autodial button. 4. Announce the call after the called party answers. If you do not want to announce the call, complete the transfer as follows. 5. Press Ris or JOIN or a programmed Call Queuing button if you wigh to answer another call. 6. The call is immediately transferred. Note: When transferring an external call to an external number, note the following restrictions: at least one of the external calls must have been an incoming call, and that call must be on a disconnect supervised line. Į, Unsupervised Conference You can use the Unsupervised Conference feature to connect yourself and two other people, then drop out of the conference leaving the other two to'talk to each other. If both parties are externa certain restrictions apply. See Notes at the end of this section. 1. Establish a Conference call as described in Conference. Press Feature 7 0. 2.

If you are unable to establish an unsupervised conference, you can put the conference on hold. See the Conference section.

1.4

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Transfer using Hold

Transfer using Hold can only be used to transfer an external call to another telephone that has a button for the line that the external call is on.

Call the person you want to transfer the call to and tell them there is a call on hold for them. Do not enter **the** Transfer feature code. To accept the call, your co-worker presses the line button with the flashing indicator.

An M7100 Telephone can transfer a call using Hold but it cannot receive a call transferred in this way.

Displays

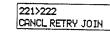
You will see some of the following displays while transferring calls.

221 busy CANCL RETRY	The person to whom you tried to transfer a call is on another call. Press <u>RETRY</u> to enter a new internal number. On the M7100 Telephone, you will automatically be returned to the Transfer to: prompt.
'Call transferred	Transient message to indicate that the transfer was successfully completed.
221 DND CALLBACK	The person to whom you tried to transfer an external call.has Do Not Disturb active on their telephone. Press <u>CRILERCK</u> or the flashing line button to reconnect to the call. On the M7100 Telephone, lift the receiver.
Do not disturb CANCL RETRY JOIN	The person to whom you tried to gransfer an internal call has Do Not Disturb active on their telephone. Press CANCL or the flashing line button to reconnect to the call. On the M7100 Telephone, enter the transfer cancellation code (Feeture • 7 0) to reconnect to the call.

221 hung UP CANCL RETRY Inyalid number



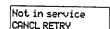
CALLBACK



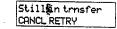
Line001 hung up

Line001>221 CANCL RETRY JOIN

Make call first



Restricted call CANCL:RETRY



An invalid DN **has been** entered, or the transfer feature has been invoked before the complete DN has been entered. The person to whom you tried to transfer a call did not answer. Press

The internal caller you were trying to

was complete.

transfer hung up before the transfer

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Press <u>RETRY</u> if, after talking to the person at extension 221, you decide to transfer the call to someone else. Press <u>Ais</u> or <u>JOIN</u> to transfer the call from telephone 221 to 222.

The external caller you were trying to transfer has hung up before the transfer was complete.

Press JOIN to transfer the call on line 001 to telephone 221. Press <u>RETRY</u> if, after talking to the person at extension 221, you decide to transfer the call to someone else.

You have tried to use the Transfer feature when you have no call to transfer.

The telephone to which you are trying to transfer a call is out of service.

You cannot transfer the call because of telephone or line restrictions.

Once you have invoked the transfer feature you must complete the transfer actions before you can access a new Feature, answer another alerting call or select an outgoing line.

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Transfer denied CANCL RETRY	Your transfer cannot be completed for one of these reasons:
ý	 All the internal resources needed to perform a transfer are in use. Try again later.
	 You have tried to transfer an external call to another external party. Some restrictions apply. See Notes at the end of this section.
Ru	 An Unsupervised Conference is not possible for your call. See Notes at the end of this section.
Transfer to: CANCL RETRY	Press <u>RETRY</u> if you entered the wrong internal number or if the person you are transferring the call to is unavailable.
Notes	
answered after a few ring	ferred to a busy telephone, or not gs, the call automatically rings you back that the telephone was busy or that no
other two people are ins However, if both of the o are some restrictions: at	supervised Conference whether the ide or outside the Norstar system. ther people are outside the system there least one of the outside callers must t call must be on a disconnect supervised

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When transferring an external call to an external number, note the following restrictions: at least one of the external calls must have been an incoming call, and that call must be on a disconnect supervised line.

In certain situations, you may experience lower volume levels when using external Transfer and unsupervised Conference with two external calls. Using Norstar remotely'&91

Using Norstar remotely

You can use the lines, and some of the features, of a Norstar system from outside that system. You can do this over the public telephone network when you are away from the office, or you can call into a Norstar system in another office from your own Norstar system, over a private network.

The exact facilities available to you through Remote Access will vary depending on how your system is set up. The Norstar features that can be made available to remote users are: access to lines, access to line pools, and remote paging.

Examples

A salesman who spends most of his time on the road needs to make long distance calls to the European office. Your Norstar system has a leased line to Europe with reduced transatlantic charges. You provide that salesman with a Class of Service " password that gives access to the transatlantic line. The salesman can then telephone into the Norstar system from a clients site, enter his Class of Service password, and use the leased transatlantic line to make his calls.'

The manager of one of your branch offices also needs to talk to the European office. She uses a private network line between her branch office and the head office to access the head office's **Norstar** system and use its transatlantic lines.

Accessing Norstar remotely

Over the public network

You can use Norstar remotely over the public telephone n&work.

- 1. Dial the Norstar system's remote access number.
- 2. If you hear a stuttered dial tone, enter a COS password.
- 3. Wait for the system dial tone.

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	ing Norstar remotely		Tones you may he	ear
	a private network a can access Norstar remotely using a private network line. t Select the private network line or the line pool that contains private network lines.		Busy tone (Norstar system	The number you dialed on the Norstar system is busy. Your call will be disconnected after five seconds, You may:
2.	Dial the number, if any, needed to access the remote system.		dial iqne	enter the DISA DN followed by a COS password to change your Class of Service.
3.	If you hear a stuttered dial tone, enter a COS password.			dial the number of someone on the
4.	Wait for system'dial tone.	_ *		remote Norstar system. dial a line pool access code and make
On	Norstar remotely ce connected to a remote system you can do any one of the owing:			an external call. enter a Page feature code (60 through 63) using € instead of Feeture . See Page.
	enter the DISA DN followed by a COS password to change your Class of Service.		Fast busy tone	You have done one of the following : entered an incorrect COS password.
	dial the number of someone on the remote Norstar system.	E 1		Your call will be disconnected after five seconds.
	dial a line pool access code and make an external call.	L , L		taken too long while entering a COS
	enter a Page feature code (60 through 63). Use 🐮 instead of Feature when entering the feature codes. See Page.		**	password. Your call will be disconnected after five seconds. tried to use a line pool or feature not permitted by your Class of Service. You will hear system dial tone again after five seconds.
		, .		dialed a number in the Norstar system
		3	Stuttered dial tone	which does not exist. Your call will be disconnected after five seconds, Enter your 'COS password on the dial pad of your telephone.
		£ 1 - 1		
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			تو	
			:	
		inne e e serie		

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Controlling access to your Norstar system

It is important that you maintain the security of your **Norstar** system by limiting **acces** to authorized users and limiting those users to just those featu es they need. Remember that a remote user can make long dist I **nce** calls that will be charged to your company and can make page announcements in your office.

Direct Inward System Access

You can control access to your **Norstar** system with Direct Inward System Access (DISA). If you set up the trunk used for remote access for auto-answer with DISA, callers will hear a stuttered dial tone and must enter a **Class** of Service password before they are allowed into the system. Access to your **Norstar** system from the public telephone network should 'always be controlled with DISA.

If you are setting up access to your system from another Norstar system over a private network, you may not need DISA. If you set up your E&M trunk to answer without DISA, callers from remote Norstar systems will receive system dial tone immediately.

Your DISA facility has a number (the **DISA** DN) which an external caller can dial when they hear system dial tone to activate **DISA** and enter a Class of Service password to change to a different Class of Service.

Class of Service

You can control which feature a remote user can access through the Class of Service for the call. The Class of Service of a Remote Access call is determined either by the Class of Service password entered when the system answers with DISA or by the Class of Service **associated** with the trunk when the system answers without DISA.

Afler having accessed the system, a remote user can change the Class of Service for the call by dialing the DISA DN followed by a Class of Service password.

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ا: Using Norstar remotely / 195
Maintaining security To maintain the security of your system, the followingpractices are recommended:
 Warn anyone to whom you give the remote access number togkeep it confidential.
Change Class of Service passwords often.
 Warn anyone to whom you give a Class of Service password to remember it and not to write it down.
 Remove the Class of Service password of anyone who leaves your company.
Notes
To use the system remotely, the telephone you are using to call the system must use tone dialing.
Remote Access is possible only on DID and E&M trunks, and Loop start trunks that are set to auto-answer.
If the Loop start trunk used for Remote Access is set to unsupervised mode, auto-answer will not function and the caller will hear ringing instead of a stuttered or the system dial tone.
If you use one Norstar system to call remotely into another Norstar system, you can use the available features of the remote Norstar system by pressing * followed by the feature code. If you press Feature, you will invoke the features of the local system, not the remote one.
Your Installer sets trunks to be auto-answer, with or without & DISA, in Configuration programming. DNs are set in Configuration programming. The System Coordinator sets up Classet of Service and Class of Service passwords in Administration programming.
In certain situations, ypu may experience lower volume levels when using DISA or using Norstar remotely.

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Modular DR5.1 System Coordinator Guide

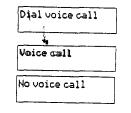
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196 / Voice Call		
Voice Call	Feature 6 6	r , J
Make a voice call. You can make an announcement or begin a through the speaker of another telephone in 1. Press Feature 6 6.		in transform
Mute Voice Call tones When a Voice Call begins at your telephone every 15 seconds as a reminder that the mi can stop it beeping.		
1. Pick up the receiver or press].	وسدار م
Handsfree Answerback If Handsfree Answerback is assigned to yo respond to a Voice Call without touching th		1
1. When someone makes a Voice Call to talking. Your telephone's microphone		н т ра
Your telephone will beep periodically to remir microphone is on. You can stop it beeping.		
1. Pick up the receiver or press	□.	
Voice Call Deny You can prevent your telephone from rece	[Feature] اع اق iving Voice Calls.	
1. Press Feature 6 6. Voice Calls w internal calls, Your other calls will pro	5	
Cancel Voice Call Deny You can cancel Voice Ca ll Deny.	Feature # 8 8	
1. Press Feature 🕅 🖲 🚳		
		• · · · · · · · · · · · · · · · · · · ·
		nen sin pa l
	P Q 6 4 2 6 4 7 0 2	

Displays

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You will see some of these displays while making'a Voice Call:



Dial the internal number or press the internal **Autodial** button of the person to whom you want to speak. The line is open for you to speak.

Voice Call / 197

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í,

The telephone receiving the call cannot accept Voice Calls for one of the following reasons: it is **active** or ringing with another call; it is in Call Forward mode: it is in Do Not Disturb mode: it has Voice Call Deny turned on: it is not a **Norstar** telephone. Your call proceeds automatically as a regular ringing call.

Notes

Once you have answered a Voice Call, you can put it on hold,' transfer it, or otherwise treat it as a normal call.

When you have Handsfree Answerback assigned to your telephone, and you are using an on-hook Dialing Mode, the microphone and speaker are both activated for external calls,

The System Coordinator assigns Handsfree Answerback to a telephone in Administration programming. You can not assign $\frac{3}{4}$, Handsfree Answerback capability to the M7100 Telephone.

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Modular DR5.1 Telephone Feature Card A 199

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Using a Norstar feature	OR Press the programm 2. Follow the display m	
Pmgramming a Norstar feature on a memory button	 Press the memory b M7100 Telephone.) buttons. 	ne. or with your calls on hold, press [Feature] (). Jutton that you want to program. (This step is not required on the See your telephone user card for the location of the memory de you want to program.
Persona	lizing your tele	phone
Autobumping	Feature	Allows the oldest log entry to be deleted from a full Call Log whe a new item is logged, so that the new log entry can be stored. For more information, see Call Log. Cancel France f f f f
Background Music	Feeture 8 6	Allows you to listen to music (provided by your office) through your telephone speaker when you are not on a call. Cancel (Ferrure) () (6)
Button Inquiry	Festure	Checks what is programmed on any button. Use this feature who labeling memory buttons.
Call Log Password	Piegram Fig pass	word for your Call Log. To remove the password see your System Coordinator.
Class of Service	(Feeture) (6) (8)	Overrides the Class of Service on a telephone to allow you to make a call from that telephone. The Class of Service determines which numbers you can dial. Switch from one Class of Service to another using this feature code and a password provided by you System Coordinator. 2
Contrast Adjustment	Festure 7	Adjusts the contrast of your telephone display. Press () through () (depending on your telephone).
Dialing Modes	Freeture 0 (2) : / : / : / : / : / : / : / : /	Changes the on-hook Dialing Modes. The three Dialing Modes are Automatic Oial: If you have a Prime line. dial a telephone number without pressing a line button. A line is selected automatically. Pre-Dial: Dial a telephone number. Edit it by pressing <u>BKSP</u> , or the left side of <u>III</u> <u>FO</u> . Press a line button to place the call Standard Olal: Press a line button, then dial a telephone number.
Do Not Disturb	Feature (ð (5	Prevents incoming calls from ringing at your telephone. Cancel Feeture () ()
anguage Choice	Selects the SE 60 (IS Belects the S 61 er	h language for the telephone display. hate language for the telephone display.

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Moving Line Buttons	Ghange: Ire (D) s	tion of a line button. Remember to switch the button caps after the line button is moved. Lines cannot be moved to polsitions occupied by [niercem]. Heading or August buttons.	
Programming Call Log	Sele≰t <u>th</u> e∓i, B P €] o	f calls that will be automatically stored in your CallLog.	[]
Programming memory buttons	Feature * 1	External Autodial: Stores a line (Optional) and an external telephone number onto a memory button for one-but-ton access to that number. Internal Autodial: Stores an internal telephone number onto a	
	Festure * 3	memory button for one-button access to that telephone number. Program Hatures: Stores a feature onto a memory button for one-buttonaccess to that feature.	
	Note: Line Inter	om , Answer , or Hardelree cannot be programmed.	
	2. Press the memory	e button:][]. (For M7100 Telephones, go to Step 3.) outton you want to program. de of the feature you want to program.	
		ine Pool feature code in step 3. enter the access code for a line pool.	,]
Ring Type	Festure (*) (6	Selects a distinctive ring to help differentiate between Your telephone and others nearby. Enter the feature code and Press NEXT or ① through ① to select the new Ring Type. Press Hold ① or ① to store the new ring.	ти 1
Ring Volume	Feature 80	Makes your telephone ring so you can adjust the volume , even while you are on a call.	page see a
Run/Stop	Festure 🕈 🦻	When using the External Autodial programming feature, inserts a break point between two or more numbers stored on a memory button. Press the memory button once to dial the first number: a second time to dial the second number, and so On.	
Speed Dial	Festure * *	'Personal: Programs a telephone number into a Personal Speed Dial code (from 71 to 94).	- 1
	 Press Fraction	In a Speed Dial code: ••• to enter Personal Speed Dial codes. ode (from 71 to 94). as part of the <u>Speed Dial</u> code, press a line button or a line Pool ••• e number to be assigned to that code. Telephone numbers cannot ••• finish programming.	
Voice Call Deny	Feeture 88	Prevents your telephone from receiving Voice Calls, permits only ordinary ringing calls. Cancel Feature E E	

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	Modular DR5.1 Telephone Feature Card / 20
Remote	e system signaling
Link	Feature 7 1 Generates a Link signal (also called flash or recall) on an active line to access other systems or carriers.
Long Tones	Forming incation with devices (such as fax or answering machines) on an active line that use longer lone signals. The tone lasts as long as a dial pad button is held down, and only for the current call.
Pause	When programmed in an External Autodial sequence. Inserts a 1.5-second delay in a number being dialed.
-	For Pulse Dialing only
Programmed Release	h en programmed at the end of an External Autodial sequence. performs the same function a
Using N	orstar from outside the office:
Calling Norstar from outside the office	You can use your Norstar system even when you are not in the office to make calls of use the paging feature. You may be required to enter a Class of Service password to get onto the system. Your Class of Service determines which features you can use and which numbers you can dial. Note: Ask your System Coordinator for details on your Classes of Service and Class of Service passworde
	 Conniecting to the Norstar system: Dial the&mote access number provided by your System Coordinator. If you hear a stuttered dial tone, enter a 6 doit COS password. When YOU hear a steady dial tone. you are connected to the Norstar system, YOU can do one of the following: Change Your Class Of Service by dialing the DISA DN and entering a Class of Service password. Dial the number of someone in the office. Enter a fine pool access code to use external lines in a line pool. Enter a Page feature code (E) (E) (E) (E) (E) (E) (E) (E) (E) (E)
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			press "J			
202 / Modula	ar DR5.1 Teleph	one Feature Card	1 1 1			Modular DR5.11 Telephone Feature CardY 20
System fe	aturae	state of the second		Handlin	g calls	
Call Ouration	Feeture 7 7	Briefly displays the length of your current call. If your telephone is idle, the length of your most recent call is displayed.	, :1	Call Forward	Feature (4)	Sends your calls to another telephone in your Norstar system. Cancel [section] [. Camp-On: Re-routes a call to another telephone even if all its line
all Log		Log to view stored caller information: The Call Log displays use special characters. 1 A new item in the Call Log is underlined. 3 Answered calls are identified. 4 Long distance calls are identified.	;; ¦l T 7		Feature 8	are busy. Line Redirection: Redirects one or more lines on your telephone so that Calls coming in on the line(s) are directed to one or more locations outside the Norstar system. Can cef Freewer F & F
		The displayed information has been truncated. bers for external callers are disolaved only if you have subscribed to	د. ۲.	Call Information	Feeture 8 1 1	Briefly displays the name. number and line name of a ringing or held call. PreSS [] or UIEN repeatedly to cycle through the three disp rays of Information.
	Call Display ser Calling from your Cal	vices from your local telephone company.'	<u>ال</u> ت, _م		Note: Names and num	bers for external callers are displayed only if you have subscribed to ices from your local telephone company.
	 Navigate to the app Edit the number, if it 	ropriate log item. and display the number. required. The leading digits may need to be trimmed, or digits may or Long Distance or line pool access. See your System Coordinator.		Call Park	Feature 7 6	Automatically puts a call on hold so that it can be retrieved from any telephone in your Norstar system. The display shows a ^{tr} retrieval code.
	4 Lift the receiver.		1 tore 1		(OntemPark) (Retriev [] [] []	al: Answers a parked call from any telephone in your Norstar system by pressing intercommand dialing the
lessage	Feeture 6 5	Reply lo Message: Review your list of external and internal display messages, and return calls. Cancel [Feeture] [] [] [] [] []	1 3		8 8	retrieval code. On the M7100 Telephone, dial just the retrieval code. The retrieval code is made up of a programmable Call Park prefix (0 to 9), followed by a call number (01 to 09).
	1 ture	Send Message: Leave a message on a to-worker's telephone display to call you back. Cancel Feature [] []	- 7	Conference	Setting up a three-per 1. Make or answer the fi	son call:
23ge	Feature 60	Allows you to make announcements through either the internal or external speakers, or both. Enter the feature code, the page code (1 for internal. 2 for external, or 3 for both), and the zone (0 to 6).	ng , ⊒ ਵ. 1		 Put the first call on h Make or answer the s 	old.
	Feature 6 2	External: Allows you to make announcements through your office's loudspeaker system (if connected).	I ! I		 Press the fine buttor Telephone.) 	n of the first held call. (This step is not required on the M7100 ;
	Faature 6 9	External/Internal: Allows you to make announcements through both your Norstar telephone speakers and your office's loudspeaker system. Enter the feature code, and the zone (0 to 6).	ī •1		Splitting a conference: connected to another. o conference.	To speak privately to one of the callers, or to drop one call and stay r to hold both parties as separate calls, you must first split the
	Feature 6 1	Internal (Zone): Allows you to make announcements, through the Norstar telephone speakers, to a group of Norstar telephones. Enter the feature code, and the zone (0 to 6). 0 pages all zones.			the conference, press	
Service Modes	Feature 8 7	Activates one of up to three different telephone answering options, eliminating the need to forward all your calls. Only an assigned Control Telephone can turn ON Service Modes. See your] 3		1. Press Hold ; the	m the conference temporarily: e other two callers can still speak to each other. n the conference permanentiy;
		System Coordinator. Cancel Feature I & C	- 1			(or <u>Transfor</u>) if programmed). The other two parties remain
Show Time	and a light of the states of t	ays the date and the time.	k.i T		Note: Some external line involved.	es may not support this type of transfer if hvo external parties are
			Ī! 1			
			- 1	P0842647 0	0	Modular DR5.1 System Coordinator Guide

Do Not Disturb	Feature 8 5	Blocks an alerting Priority Call on your telephone.
Exclusive Hold	Feature 7 9 or Feature ph Dennice S r	Temporarily suspends an external call and prevents other on picking it up.
		Exclusive Hold Retrieval: Press <u>pi</u>) of the held call. (Press Hold on the M7100 Telephone.)
Group listening	Allows yd () () () e	both the receiver and your speaker at the same time while you are on a call. If you experience feedback. turn the volume down, and before hanging up; press me . Cancel Feeture 160 67 (27)
_ogit	Store Caller mforr	Cancel Freeture IDDE mation for the current active call in your CallLog.
		rs for extern icallers are displayed only if you have subscribed to es from your local telephone company.
Privacy	Feelure 8 3	When Privacy is 0N other Norstar users with the same line are prevented from joining your current external call . If Privacy is OFF. other Norstar users with the same line can join in on your external call by pressing that line button. Enter the feature code a second time to restore the Original setting.
Fransfer	Feature 70	Sends a call to another telephone in your Norstar system. over a network or outside your Norsfar system,
	 Dial an internal tele If you wish, you can an Press File Or JODN. The call is immediatel Transfer within your Mors Make or answer a call. Press Feature (7) Select a line and dial t If you wish. you can Select a line and dial t If you wish. you can Select all is immediately You can also do an extern Make or answer a call. 	y transferred. tar network or external lo Norstar (or <u>trensfer</u>) if programmed). he telephone number that you wish to transfer the call to. announce the call after the called party answers,

Call Pickup	ng and making Feature 76 Feature 75	Directed Plckup: Answers a selected telephone in your system. Group Pickup: Answers a call that is ringing at another telephone in the same pickup group. The external call that has been ringing
	Filler A 18 100 (C) A	longest is answered first. nswers an external call that is ringing on a line that has been placed into Service Modes Irom any telephone iA the Norstar system. This feature does not work on Drivate lines.
Call Queuing	Answers a call w	hen several calls arrive at the same time. The external call that has been ringing longest is answered first.
Last Number Aedial	(Festure 5)	Automatically radials the last external telephone number that you dialed. This feature is available on the <u>last No</u> memory button on most telephones.
Line Pools	Feeture 6 4	Telephones can share several external lines for making outgoing calls without requiring each telephone to have a button for every line.
	to your telephone, o	d dial the Line Pool access code for one of the Line Pools assigned or press <u>Line pool</u> (if programmed). e pool which connects you to the public network. dial the telephone <i>m you</i> want to call.
	sée Using Norstar fi If you are using a lin	ne pool that automatically connects you to another Norstar system. From outside the office. e pool which automatically connects you to a system other than
	Norstar, follow the p need field.	procedure for using that system. Ask your System Coordinator if you
		Coordinator for your Line Pool access code.
Priority Call	Feature 5 9	Interrupts a call at another telephone, or overrides Do Not Disturb at a telephone. See your System Coordinator.
Ring Again	(Fssture) (2	When another telephone or Line Pool within the Norstar system is busy, Ring Again signals you to call back when the telephone or Line Pool becomes available. Cancel Forman 22
Saved Number Redial	Feature 6 7	When you are active on a call, this feature stores the external telephone number of a call you have dialed. When you aré-not active on a call, this feature redials the number previously stored.
		Dials the number stored for a Speed Dial code. After entering the
Speed Dial	8	feature code, enter the two-digit Speed Dial code (01 to 94) for the number you want.

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The Norstar Pri		- 1
What is a Prime Telephone?	A Prime Telephone can be any Meridian Norstar [•] telephone that has been assigned to provide a backup answering service for incoming external calls. An external call rings at a Prime Telephone when the call is not answered at any other telephones with that call's line appearance.	<u> </u>
	A Prime Telephone can be any one of the lottowing:	
	 any Norstar telephone an M7310 telephone with a Busy Lamp Field (BLF) an M7324 telephone with Central Answering Position (CAP) module. 	¥.'
Your role in operating a Prime Telephone	As the assigned Prime Telephone operator, you are responsible for answering unanswered external calls. You are alerted to these calls when your telephone display shows you a descriptive message. the line indicator ▶ flashes, and the call rings.	
	After answering a call; you may take a message or redirect the Calf to another telephone.	ı I
Who assigns the external lines for my Prime Telephone?	Check with your System Coordinator to determine which external lines have been assigned for backup answering and which of those lines ring at your Prime Telephone. To help you do your job well. this person should provide a list of names and numbers associated with each Norstar telephone and external line, and a list of System Speed Dial names and numbers. This person can also tell you which features have been assigned to Your telephone.	
	There may be more than one Prime Telephone operator in your Norstar system. If this is the case, then each Prime Telephone operator is responsible for a particular group of assigned lines when providing a backup answering service. Let the appropriate people within your backup answering group know that you are now providing a service for them.	, 1
		· . 1
	, ½ ¢	<u> </u>
		1

Answering ca When do I answer	You answer a cal it.
a call?	 someone within Norstar calls you. You hear the Norstar internal ring (t quick rings followed by a longer pause), and an indicator b flashes be one of your telephone's intercom buttons. an external call comes directly to your Prime Telephone. You hear the familiar external telephone ring, and an indicator b flashes beside one your telephone's external line buttons. a call is redirected to your Prime Telephone from somewhere else with Norstar system. You hear an internal ring, an external ring, or the Cam tone (two quick beeps), and you see a message on the display of your telephone. Note: You do not answer the call if your Prime Telephone does not ring.
How do lanswer a call?	If you want a line to be automatically selected: 1. Pick up the receiver or press (if assigned). 0 R If you want to manually answer a line:
	 Press the line or intercom button with a slow flashing indicator Pick up the receiver if you want the handsfree microphone OFF.
	Note: A fast flashing indicator > shows that a line is on hold.
Handling more than one call at once	When you have more than one call arriving at your telephone, the Call Oueuing feature allows you to answer each of the waiting calls by automatically selecting the next call for you.
	Use Call Queuing when you are on a call and a new call alerts you by ringina at your telephone, or by sending Call Queuing tones.
	 Pick up the receiver to answer the first call. Press [programmed] [] [] or the Call Queuing button if The call you were on is automatically put on hold.
\$	3. To return to a previous call: Press the external line button of the call on hold. 4 Continue to answer incoming calls.
	5. Press (Reg) when you are finished with the call you are on.

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Redirecting calls using display messages	The display messages which appear on your Prime Telephone for redirected Norstar calls should help you to understand why those calls were passed to your Prime Telephone. This information is useful when you need to decide what to do with the call once it has been answered. The following table lists some example display messages that could appear on a Prime Telephone when you receiveredirected calls:		
	Held by KAREN	Karen holds a call for too long.	
	JOHN DHD	The call you transferred is returned to you because the telephone is in 00 Not. Disturb mode.	
	DRT Line 025	Delayed Ring Transfer redirects an unanswered call on line 025.	
	Line012 to prime	A call on line 012 cannot ring elsewhere.	
	Line018>JANET	A call on line 010 was forwarded or routed to Janet, hut was not answered.	
	Line003callback	A transferred, camped. or parked call on line 003 was returned to the originator using the Callback feature, but was not answered.	
	Held line reminder	after the first message Held b	age On hold: LINENRM is repeated periodically GREN appears. This message is accompa- ith the Camp-On feature (two quick beeps).
The Held Line Reminder message only shows the line name of one held call. If there is more that one call on hold, the line name of the oldest held call is shown. When yousetrieve the oldest held call and then end that call by hanging up or putting it on hold. the display will change to show the next oldest held call, if any.			
	Note: If your KSU has an earl message will beHeldcall.	ier system version. the Held Line Reminder	

	Prime Telephone User Card / 209
Completing	a call
Your options ,	You have just answered a call for someone else. What do you do next?
	You can: Transfer the call to another telephone within your Norstar network, or outside the Norstar system. 0 R Camp the call on another Norstar telephone. OR Announce the calf to the office, asking that someone take the call. 0 R Take a message.
Transferring the	To a lelephone within your Norstar system:
active calf	 Check whether the telephone to which you want to transfer is already busy: Is there an indicator ► beside the Internal Autodial button for the other telephone? If you have a BLF, is the indicator ON for the other telephone? If you have a CAP module, is the indicator ► ON for the other telephone?
	To transfer a call: 1. Julake or answer a call. 2." Enter the transfer feature code. 3. Dial an internal telephone number or press an Autodial button. 4. If you wish, you can announce the call after the called party answers. 5. Press (a) Or JOIN. 6. The call is immediately transferred.
	To a telephone within the Norstar network or external to Norstar: Use the above procedure, substituting the following for step 3:
	 You can also do an external transfer using Unsupervised Conference: 1. Make or answer a call. 2. Call the person to whom you wish to transfer the call. 3. Establish a conference with the two parties. 4. Drop out of the conference using the Unsupervised Conference feature.
	Note: Some external lines may not support an unsupervised conference call. In this case, you may put the conference on hold, allowing the other two parties to continue talking to each other.
	Note: 00 not use the Feb button to create an unsupervised conference. Although it wilt create an unsupervised conference with internal parties it will not work in a conference with two external parties
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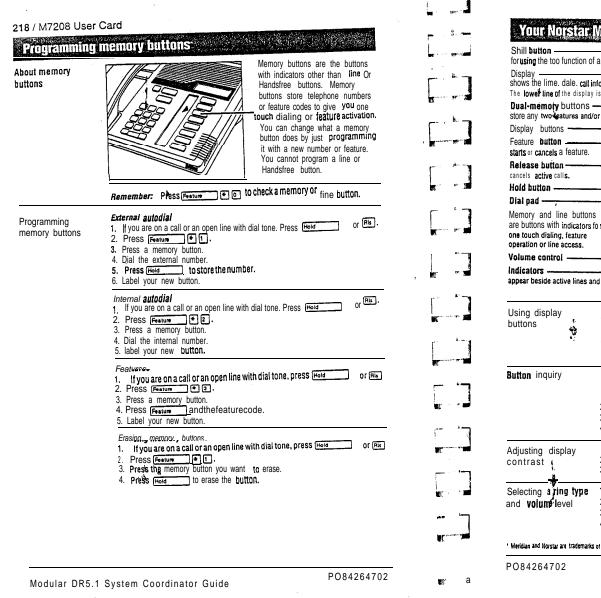
210 /. Prime Telephone User Card Completing a call Useful Norstar telephone vou want to transfer the call to is busy on another call, you may want to camp the call on that telephone. The person receiving the camped call will tear Camp-On tones (two quick beeps). Is the Norstar telephone on the call on that telephone on the call on the telephone on the call to is busy on another call. Is the person you are trying to call is on another line. or their telephone has Ot Not Disturb ON. a display message shows you that their telephone is busy. If the person you are trying to call does not answer, a display message informs you that there is no reply. In each case, you can use the Ring Again feature. The Ring Again feature is a method of ensuring that you immediately know when there is a change in the use of the other telephone. You can then try again to place a call. Announcing the active call You are trying to pass calls you have answered to co-workers who are not at their telephones. Using the Page feature, you can announce met can answer the call from the nearest Norstar telephone. You can the call so the calls over the page feature, you can announce met can answer the call busts ar telephone. Some of the many special features which Norstar provides may be particularly useful to you. Some of the set features, however, are only available if assigned using the you. Some of the any special features, however, are only available if assigned using the you. Some of the many special features, however, are only available if assigned using to you. Some of the many special features, however, are only available if assigned using to you. Some of the any special features, however, are only available if assigned using to you. Some of the any special features, however, are only available if assigned using to you. Some of the many					Prime Telephone User Card /21
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 2. Use the Page feature to announce the call and its line number. 3. Replace the receiver. Your co-worker can now go to the nearest Norstar telephone that has that line, select the line, and lift the receiver. 11. Use the Call Park feature to place the call on hold. Your telephone shows a three-digit Call Park feature to place the call on hold. Your telephone shows a three-digit Call Park feature to announce the call and the Call Park Retrieval code. 3. Replace your receiver. Your co-worker can now retrieve the call from any other Norstar telephone three-digit Call Park feature to announce the call and the Call Park Retrieval code. 3. Replace your receiver. Your co-worker can now retrieve the call from any other Norstar telephone by litting the receiver and dialing the three-digit code. Note: Remember that callback (the call is redirected back to your Prime Telephone) occurs if your transferred, parked, or camped call goes unanswered. 					Call Pickup Group: Any member of a specified group can answer an external
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Your co-worker can now retrieve the call firm any other Norstar telephone by lifting the receiver and dialing the three-digit code. Note: Remember that callback (the call is redirected back to your Prime Telephone) occurs if your transferred, parked, or camped call goes unanswered.		-			
Telephone) occurs if your transferred, parked, or camped call goes unanswered.		Your co-worker can now retrieve the call fmm any other Norstar telephone	ya - mi	1. 	
POR4264702		Telephone) occurs if your transferred, parked, or camped call goes		į	
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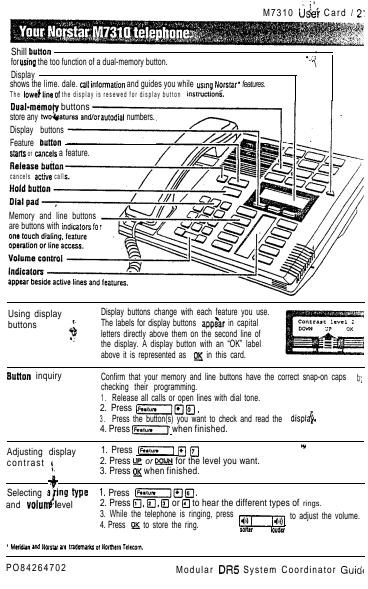
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			Adjusting receiver or 1. Press when using the receiver or the speaker. leiephone speaker solter lower &
	The Meridian Norstar Central Answering Position (CAP) User Card describes how to use Central Answering Position modules.		and volume 2. Press [, 2,3] or to hear the different types of rings, 3. While the telephone is ringing, press 4. Press (Stream) to store the ring.
	The Meridian Norstar Busy Lamp Field (ELF) User Card describes how to use the Busy Lamp Field.	B ULL IN T	Selecting a ring type 1. Press Contract () (5.) and volume 2. Press (), (2.) (3) or (4 to hear the different types of rings,
	The Meridian Norstar Feature Card lists the feature codes and describes the features.	(1	Adjusting display 4. Press Forume 107. contrast 2. Press 1 to 9 for the level you want.
	• use The first of the second se	н, , I	4. Press Freuw when finished.
	• put a call on hold	··· ¹ 1	3. Read the display.
	make an external call make an internal call	He The	1. Release all calls and open lines with dial tone.
	The Meridian Norstar Telephone User Cards show you how to:	I	Button inquiry Confirm that Your memory button has the correct snap-on cap by checking programming.
here to get help	To learn more about Norstar and its features, the System Coordinator can provide you with the following Norstar documents:	₩ ·,]	A VII (A
	If your Prime Telephone is an M7324 telephone, you can monitor the busy/not busy status of other No star telephones. Check for the presence or absence of indicators ► beside 6 he Internal Autodial buttons for the other telephones.	₩ • I	Hold button
	If you are using all of your external line buttons and intercom buttons. you can still receive a camped call (you will hear two quick beeps).	1	Feature button
	The Held Line Reminder or the Delayed Ring Transfer feature is not available unless assigned during Configuration programming.		automatically dial internal or external number. Dial pad
	If your Prime Telephone receives a callback call. you will hear the internal telephone ring instead of the familiar external telephone ring.	in 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	Memory buttonis programmable to compare a feature or to
ome unique tuations	If an external call comes to you, and no remaining external line buttons are available, the indicator ▶ for that call will appear next to any available intercom buttons on your telephone.		Display shows the time, date. call information and ouides vou while using Norstar' features.
alla estis destructiones and another		⊾ ,	Release button
Other inform	phone User Card alfont	۲' ۳	Your Norstar M7100 telephone

		pie . Au M		
		L		M7100 User C&d / 215
/ M7100 User	Card t	.	Programming the memory butto	Π
laking calls			About the	The memory button can store a
rnal calls	 Pick up the receiver. Dial the internal number. 	in the	memory button *	telephone number or feature code to give you one touch dialing or feature activation. You
2. D	 Pick up the receiver. Dial far vour system's external line access code]. Dial the external telephone number. 			can change the memory button by programming it with a new number or feature code:
	Note: Internal numbers and the external access code are supplied by Your System Coordinator.			Memory button
Ramayering a second By us call To a 1. Pre T f 7 0 <i>h</i> 1. Pr 2. Dia To <i>r</i> 1. Pr 2. Dia To <i>r</i> T To <i>r</i> 1. Pr 1. Pr 2. Dia To <i>r</i> 2. Dia To <i>r</i> 2. Dia To <i>r</i> 2. Dia To <i>r</i> 2. Pr	The M7100 telephone allows you to have two calls active at the same time. By using wear cart switch between calls.		Remember: Press (Feature	∑] T (€) Q to check the memory button,
	To answer a second call while on another call 1. Press <u>Hold</u> to put the first call on hold. The second call automatically comes onto the line.		Programming External autodial memory buttons 1. If you are on a call or a 2. Press Feature 1.	an open line with dial tone, press দিলের তা জিল
	To hold a call and make a second call 1. Press Hox to put the first call on hold. 2. Dial the telephone number for the second Call.		3. Dial the external number 4. Press Here 5. Label your new button.	er.
	To return to the first call 1. Press hold again to return to the first call on hold. The second call is automatically put on hold.		 internal autodial 1. If you are on a call or a 2. Press [Fusion] [2] 3. Dial the internal number 	
	To hold a call 1. Press Hold 2. Press Hold Check the display for confirmation or additional information.		 Label your new button. Features If you are on a call or a 	an open line with dial tone, press How 2 or Rus.
			2. Press Feature (* 3 3. Press Feature and th 4. Label your new button.] . ;∙ he feature code. ⊷
		perti i ang	Erasing memory buttons 1. If you are on a call or a 2. Press Freature 1 (1) 3. Press Hold to era	
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		1811). A 4000	PO84264702 Modul	ar DR5.1 System Coordinator Guide

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		<u>.</u>		M7208 User Card
216 / M7208 User Card		Making call	S ³ 2	
Vour Norstar M7208 telephone:		About line buttons	Norstar systems can have different typ buttons On Your telephone with the or them.	
shows the time, date. call information and guide's you while using Norstar* features.	™ d	Intercom	Internal calls using Intercom buttons 1. Pick up the receiver. 2. If ▶ appears beside an intercom	External calls using numbers buttons 1, Pick up the recerver.
Release button	*		button, then dial. UR Press an Intercom button without ▶, then dial.	 When ► appears beside a numbered Line button. the OR Press a numbered Line but
Hold button	v 📕		Note: Internal numbers are supplied by	without > then dial.
Dial pad	- ,	4321	Internal calls using extension	External calls using extension
Memory and line buttons are buttons with indicators for one touch dialing, feature operation or time access. Button loculing Confirm that your memory and line bunons have the correct snap-on caps by	- 1 - 3	a	 buttons 1. Pick up the receiver. 2. When ▶ appears beside-en extension button, then dial. 	 Extension constants co
Checking their programming. 1. Release all calls and open lines with dial tone. 2. Press 3. Press the button you want to check. 4. Read the display. 5. Prace Every whenfinished.	- 3	Hold	Holding Calls 1. Press <u>These</u> ► flashes beside th 2. Press the line button with the flashing Check the display for confirmation or Automatic hold Calls are put on hold automatically when	to return to the call. additional information
Adjusting display contrast 1. Press (Feature) ? ?. 2. Press a number on the dial pad for the contrast level YOU want, the higher the number the higher the contrast level.	, · ∎ *** 1	Handstree	This button operates the telephone's bui of the receiver. Your System Coordinator	t-in microphone and speaker In [
Selecting a Ring 1. Press Feature Image: Selecting a Ring 1. Press 1. Press Image: Selecting a Ring 1. Press 1	<u> </u>	\$ 2	telephone. Making calls 1. Press register instead of picking up Switching between Handslree and hand 1. Press register placethe handsett 2. Pick up the receiver to switch back.	lset
Adjusting receiver or ¹ . Press (()) (()) when using the receiver or the Speaker. telephone speaker softer louder volume			Using Mule 1. Press Haggingen to turn the micropho 2. Press Maggingen again to turn the m	ne OFF. icrophoneON.
	- 1	Dialing without lifting the handset	 Press a line button without , then dial Whenanswered, pickup the receiver, If the call is not answered, or the line 	or press
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220 / M73 10 Use	er Card	had been as	M7310 User Gard
Making calls		.	Programming memory buttons
About line buttons	Norstar systems can have different types of line buttons. Match the line buttons on your telephone with the ones below for instructions on how to use them.		About memory in the second sec
Intercom (Line]	Infernal calls using Intercom buttons External calls using numbered Line buttons 1. Pick up the receiver. 1 Pick up the receiver. 2. If ▶ appears beside an Intercom 1 Pick up the receiver.	and a second	codes to give you one touch dialing or feature activation.
<u></u>	 If ➤ appears beside an intercombutton, then dial. Press an Intercombutton without ➤, then dial. If ➤ appears beside a numbered Line button, then dial. If ➤ appears beside a numbered Line button, then dial. 		Dual-memory buttons To use the bottom function. To use the bottom function. To use the top function, pres shift button, then press the memory button.
	Note: internal numbers are supplied by your System Coordinator.		Single-memory buttons
4321	 infernal calls using extension buttons 1. Pick up the receiver. 2. When ▶ appears beside an extension button, then dial, External calls using extension buttons 1. Pick up the receiver. 2. When ▶ appears beside an extension button, then dial, (Or your system's external line access code) and the number. 		Single-memory buttons are buttons with indicators other line or Handsfree buttons.
Hold	Holding Calls		Remember; Press Freure 1 0 to check a memory or line button.
	 Press Heine buttonwith the flashing ▶ to return to the call. Check the displayforconfirmation or additional information. 	and the second	Programming External autodial Infernal autodial
	Automatic 3old Calls are put on hold automatically when you switch from one line to another.		memory buttons 1. If you are on a call or an open line 1. If you are on a call or an open with dial tone, press or file
Handstree Vote	This button operates the telephone's built-in microphone and speaker in place of the receiver. Your System Coordinatorcan program Handsfree to your telephone.		2. Press (Forture)
	Making calls 1. Press receiver.		 5. Press <u>OK</u> to store the number. 6. Label your new button.
	Switching between Handsfree and handset 1. Press Headler and replace the handset to switch to Handsfree. 2. Pick up the receiver to switch back	pro territoria de la constante	Features Erasing memory buttons 1. If YOU are on a call or an open line 1. If YOU are on a call or an open
	Using Mute 1. Press Hadding to turn the microphone OFF. 2. Press Hadding again to turn the microphone ON.		with dial tone, press Hote with dial tone, press Hote or Reg . or Reg . or Reg . 2. Press Freeture 1 (1 . 2. Press a memory button. 3. Press the memory button y
Dialing without fting the handset	 Pressaline button without , then dial your call. When answered, pick up the receiver, or press integration If the call is not answered, or the line is busy, press 		 Press Feeture and the feature want to erase. code. Press OK to erase the button.
lodular DR5.1 Sy	ystem Coordinator Guide PO64264702		PO84264702 Modular DR5 System Coordinator C

2 22 / M7324 Use	r Card	-
Your Norstar	M7324 telephone:	•
Memory and line buttor	ns the second se	, ,
are buttons with indicators line access.	for one touch dialing, feature operation or	
Display		
shows the time, date. call you while using Norstar* fe	eatures. The lower	
line of the display is reser- button instructions.	ved for display	
Display buttons		
Dial pad		
Volume control		
Feature button		
starts or ends a feature.		•
Hold button		2
Release button		
Indicators		
appear beside active lines	and features.	2)
Using display	Display buttons change with each feature you	
buttons	use. The labels for display buttons appear in capital letters directly above them on the	
	second line of the display. A display button	
	with an "OK" label above it is represented as	
	<u>OK</u> in this card.	
Button inq	u i r Confirm that your memory and line buttons have the correct Snap-on Caps by checking their programming.	
	1. Release all calls or open lines with dial tone.	
	 Press Feature 1. To 0. Press the button(s) you want to check and read the display. 	त च ।
	4. Press Feature when finished.	
	1. Press Freeture 1.	(1 1
Adjusting display contrast	1. Press Feature ● 7 2. Press up or pount for the level you want.	
oonnaar	Brook when finished.	, 26 -

Making call	S
About line buttons	Norstar systems can have buttons on your telephone them.
Intercom	Internal calls using Interc 1. Pick up the receiver. 2. If ► appears beside an button, then dial. 0 R Press an Intercom butt
	▶, then dial.
	Note: Internal numbers ar
4321	 Internal calls using exten buttons 1. Pick up the receiver. 2. When ► appears besic extension button, then
Hold	Holding Calls 1. Press Hold 2. Press the line button wi Check the display for co Automatic hold Calls are put on hold autom
Handsfree Mule	This button operates the tel of the receiver. Your Syste telephone.
	Making calls 1. Press Hardeller inst
₹	Switching between Hands 1. Press <u>Huggins</u> and 2. Pick up the receiver to s
	Usino Mute

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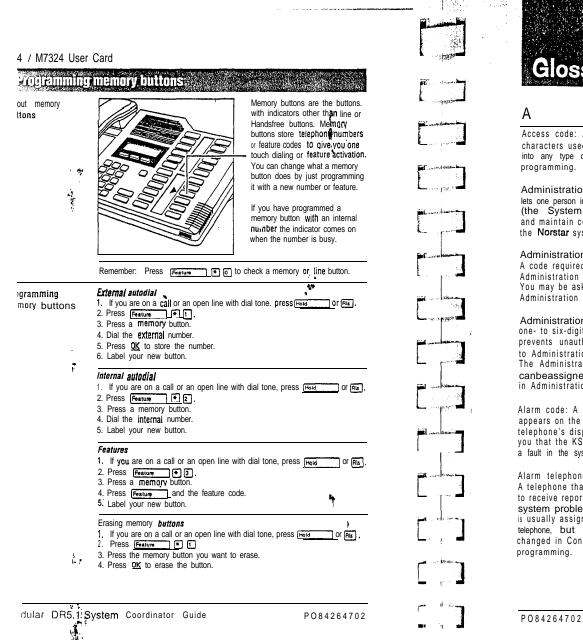
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Access code: A sequence of characters used to gain entry into any type of Norstar system programming.

Administration: A program that lets one person in your office (the System Coordinator) assign and maintain certain settings on the Norstar system.

Administration access code: A code required to access Administration programming. You may be asked for an Administration password.'

Administration password: A one- to six-digit password that prevents unauthorized access to Administration programming. The Administration password canbeassignedandchanged in Administration programming.

Alarm code: A number that appears on the Alarm telephone's display, informing you that the KSU has detected a fault in the system.

Alarm telephone (Alarm set): A telephone that is designated to receive reports of No'rstar system problems. This function is usually assigned to a Prime telephone, but this can be changed in Configuration programming.

Allow Redirect: A sub-heading in Administration programming that allows you to set whether tine **Hedirection** can be used from that telephone.

Analog Terminal Adapter (ATA): A device that permits the connection of analog telecommunication devices such as FAX machines. answering machines, and single line telephones to the Norstar system. Programmed defaults for the ATA are automatically assigned by the Norstar system.

Answer button: A telephone button with an indicator that ic used to monitor another telephone. The Answer button indicates incoming calls destined for the other telephone. Someone working at a telephone with Answer buttons (a receptionist, for example) can receive all ringing and visual indication of incoming calls for other telephones, and answer those calls when necessary. One telephone can have up to four Answer buttons. An Answer button is automatically assigned to a telephone when that telephone is assigned an Answei**(D**N.

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Answer DN: A Directory Number (DN) of a telephone that is monitored by an Answer button. Up to four Answer DNs can be assigned to a telephone by the Customer Service representative.

Autoblymping: A setting that determines what the system does with new Call Log items when your Call Log is full. When Autobumping is ON, a new log entry causes the oldest entry to be deleted. If Autobumping is OFF, your Norstar system does not log calls when your log is full.

Autodial button: A memory button that, if programmed, provides one-touch dialing of external or internal numbers.

Autolog options: A feature that allows you to select the type of calls that are stored in your Call Log. You can choose to tog calls that were not answered by anyone within the system, to log calls that were unanswered at this telephone but answered elsewhere in the system, to log all calls answered and not answered at this telephone, or to not have calls automatically logged.

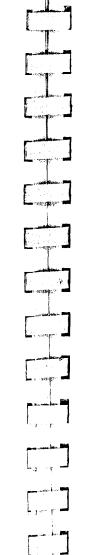
Automatic Dial: A feature that allows you to dial without having to pick up the receiver or select a line. You must have a Prime line to use Automatic Dial. Automatic Handsfree: A feature that automatically activates Handsfree operation when you make or answer a call. Automatic Handsfree is assigned in Administration programming.

Automatic Hold: A feature that automatically places an active call on hold when you **select** another line. Automatic Hold is programmed by your Customer Service representative.

Automatic Privacy: See Privacy.

Automatic Telephone Relocation: A feature that lets a telephone retain its personal and system programming when it is plugged into a different Norstar modular jack. Automatic telephone relocation is enabled by your Customer Service representative.

Auxillary ringer: A separate external telephone ringer or bell that can be programmed to ring when a line or a telephone rings. An auxiliary ringer may be programmed to ring only when the system is in a **particular** service mode. Programming of an auxiliary ringer isr is done. Administration programming after the feature has been enabled by your Customer Service representative.



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Backgro

Background Music: A feature that lets you hear music from the speaker of your **Norstar** telephone. It is available only if a music source has been attached to the KSU and the feature has been enabled by your Customer Service representative.

Busy Lamp Field (BLF); A

device with a liquid crystal display (LCD) panel of indicators that shows the status of up to 24 telephones in the **Norstar** system. The BLF shows a telephone as busy if it is active on a call, has Do Not **Disturb** turned UN, or is being used for programming. The BLF attaches to the **M7310** Telephone.

Button caps: Interchangeable plastic caps that fit over the buttons of Norstar telephones. They are used to indicate the features programmed onto each programmable memory button. Button caps are either **pre-printed** or have clear windows that allow you to label the buttons.

Button Inquiry: A feature that allows you to check the function of each programmable button on your **Norstar** telephone.

Bypass Restrictions: A setting

that allows you to override any Call Restrictions applied to specific System Speed Dial numbers. Bypass Restrictions can be turned on in Administration programming. Glossary 1227

С

Call Forward: A feature that forwards all the calls arriving at your, telephone to another telephone in your Norstar system. To have calls forwarded outside the system, use Line Redirection.

Call Forward No Answer: A feature **that forwards** all calls arriving at your telephone to another designated telephone in your Not-star system after a specific number of **rings**. Call Forward No Answer is assigned in Administration programming.

Call Forward On Busy: A feature that forwards all calls at your telephone to another designated telephone if your telephone is busy. This feature is assigned in Administration programming.

Call Forward Override: A feature that allows you to call someone and ask them to stop q forwarding their calls to you.

Call Information: A feature that allows you to display information about incoming calls. For external calls, you can display the caller's name, telephone number and the line name. For an internal call, you candisplay the name of the calling and their internal number. You can obtain information about ringing, answered, or held calls

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Call Log: A feature that accesses a record of incoming calls. The log could contain the following information for each call: sequence number in the Call Log, name and number of caller. long distance indication, Indication if the call was answered, time and date of the call, number of repeated calls from the same source, and name of the **gine** that the call came in on. See Autobumping, Autolog options, Enter Call Log, and Logit for further information

Call Park: A feature that allows you to place a call on hold so that someone can retrieve it from any other telephone in the Norstar system by selecting an internal line and entering a retrieval code. The retrieval code appears on the display of your telephone when you park the call. You can park up to nine calls on the system at one time.

Call Park-Callback: See Callback.

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Call Park prefix: The first digit of the retrieval code of a parked call. This digit cannot conflict with the first digit of any existing DNs. Line Pool access codes, the Direct-dial digit, Of the external line access code. The default Call Park prefix digit is "1". It may be set to none, in which case Call Park is disabled. Call Park prefix is assigned by your Customer Service representative. Call Pickup Directed: A feature that lets you answer a call ringing at any **Norstar** telephone by entering the internal number of that telephone before taking the call. Call Pickup Directed is activated by your Customers. Service representative.

Call Pickup Group: See Pickup Group.

Call Queuing: A feature that allows you to answer calls in order of priority if you have several calls waiting at your telephone. Priority is given to external incoming calls, followed by callback and camped calls.

Callback: A feature that returns parked, camped or transferred calls to your **telephone** if they are not answered at &other telephone. How long the system will wait before Callback occurs is set by your Customer Service representative.

Camp-On: A feature that lets you reroute a call to a telephone even if all the lines on that telephone are busy. To answer a camped call, use **Call** Queuing or select a line if the camped call appears on your telephone. Priority is given to queued calls over camped calls.

Camp timeout: The length of a delay before a camped call is returned to the telephonesthat camped the call. This delay is set by your Customer Service representative.

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Capabilities: A section heading in Administration programming, that covers the dialing filters, remote access packages, set abilities, and line abilities that can be assigned to **Norstar** lines, telephones, or Class of Service passwords.

Central Answering Position (CAP): An M7324 Telephone that has been designated a CAP by your Customer **Service** representative. The CAP provides backup answering and can be used to monitor the telephones within a Nor-star system. One or two CAP modules can be attached to a CAP to increase the number of lines it can handle.

Central Answering Position (CAP) module: A module connected to an M7324 ' Telephone that provides 48 additional buttons that can be used as **Autodial** buttons or Feature buttons. A maximum of two CAP modules can be connected to a single M7324 Telephone.

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Class of Service (COS): A set of Norstar features and lines available to the user for a call. The Class of Service for a call is determined by the Dialing Filters and Remote Access Packages assigned to the telephone in Administration programming. The Class of Service for a call can be changed by entering a six-digit Class of Service password. (Internal users cannot change their access to features with a COS password, only their dialing filters.) Class of Service and **Class** of Service passwords are assigned in Administration programming. See Remote Access.

Class of Service password: A six-digit code that lets you switch from your current Class of Service to one that lets you dial numbers prohibited by your current Class of Service.

Conference: A feature that allows you to establish a three-person call at your Norstar telephone.

Conference using privacy: A feature that allows you to turn **privacy** OFF for a call **allowing** another person with the same line to press the line button and join in **your conversation**, forming a conference. Normally your calls are private; no one else can pick up your line and join in.

Contra **st** Adjustment: A feature that allows you to set the contrast level of your telephone display.

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Control telephone: A telephone that can place the lines for which it has responsibility in or out of a Service Mode. A telephone is programmed as a Control telephone and has lines assigned to it in Administration programming.

CQS: See Class of Service.

Cursor: A short horizontal line that appears on the Norstar telephone display to indicate that characters can be entered using the dial pad.

D

Data Communications Interface (DCI): A Norstar device that lets you attach an RS-232 data device to your Norstar system.

Data terminal: A device, such as a modem, that can be used to transfer data instead of sound over a telephone network. You cannot use Norstar programming to set up such devices. See the documentation that accompanies the device.

Date: See Show Time or Time and Date.

Defaults: The settings for all Norstar features when the system is first installed. Settings are changed from their defaults in Administration programming and by your Customer Service representative. In this manual, default settings are shown in bold text.

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Delayed Ring Transfer (DRT) to Prime: A feature that transfers an unanswered call on an external line to the Prime Telephone associated with that line after a specified number of rings. This feature is activated by your Customer Service representative.

Dial mode: The dialing mode of

a line can be either Tone or

pulse. Pulse is traditionally used

is also referred to as dual-tone

multi frequency (DTMF) tones.

Dial mode can be programmed

by rotary dial telephones. Tone

by your Customer Service representative. Dialing filter: A feature that prevents certain telephone numbers from being dialed through a combination of restrictions and exceptions. Dialing filters can tie applied to lines (line filters, remote filters). to telephones (set filters), to specific lines on a telephone (line/set fitters), and to Class of Service passwords (user filters. remote filters). The Norstar Modular system can handle up to 100 dialing filters. Direct Inward System Access

(DISA): A feature that lets remote users dial directly into the Norstar system and use Norstar features. Callers hear stuttered dial tone and are required to enter a Class of Service password to gain access to the system. See Remote Access.

Direct-dial: 'A feature that lets vou dial a designated telephone in your Norstar system with a single digit. As many as five Direct-dial telephones can be established. Each telephone in the system is assigned to one Direct-dial telephone. There is a single, system wide digit for calling the assigned Direct-dial telephone of any telephone. Direct-dial telephones are established in Administration programming. Telephones are assigned to a Direct-dial telephone in Administration programming.

Direct-dial number: A digit used system wide to call a Direct-dial telephone. The digit is programmed by your Customer Service representative.

Directed Pickup: See Call Pickup Directed.

Directory. Number (DN): A unique number that is automatically assigned to each telephone or data terminal. The DN, also referred to as an internal number, is often used to identify a telephone when settings are assigned during programming. Default DN assignments start at 21 in a two-digit (non-expanded) system and 221 in a three-digit (expanded) system.

DISA: See Direct Inward System Access.

DISA DN: A received number assigned to the Norstar Direct Inward System Access facility. If a caller dials a number that is assigned to the DISA DN, the caller hears stuttered dial tone and must enter a Class of Service Password. Once the password is accepted, the caller hears system dial tone and can use Remote Access features, See Bemote Access.

Display: A liquid crystal display (LCD) on the **Norstar** telephone that guides you through feature operation and programming.

Display button: One of three buttons located directly beneath the display on M7310 and M7324 Telephones. During feature operation or programming, some or all of these buttons may be used to provide further options. If an option is available, it is shown in the bottom line of the two-line display, directly **above** the corresponding display button. Display buttons are represented in this manual as underlined capitals, e.g. <u>OK</u>.

Display digits: A sub-heading in Administration programming that allows you set whether an assigned name or the actual number is displayed when someone uses a system speed dial code.

DN: See Directory Number

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DRT delay: The number of rings before a Delayed Ring Transfer occurs, This is assigned by your Customer Service representative.

DRT to Prime: See Delayed Ring Transfer to Prime.

E ,

Emergency Telephone: A single-line telephone (also referred to as a 500/2500 telephone) that becomes active when there is no power to the Key Service Unit.

Event message: An item stored in the system log and **displaxed** during a Maintenance session. Event messages record a variety of events and activities in the **Norstar** system.

Exceptions: A component of a Dialing'filter. Exceptions are numbers you can dial even if they are forbidden by a more general Restriction. See Restrictions.

Expanded system: A Norstar system with an Expansion Cartridge.

Expansion Cartridge: A cartridge which connects Trunk modules and Expansion modules to the Key Service Unit.

External call: A call to a destination outside the Norstar system.

External Call Forward: See Line Redirection.

External code: The number you dial to get an exter palline. The default is 9, but thi # can be, changed by your Customer Service representative. You do not always need an external code. It is primarily to support the M7100 Telephone and single-line telephones using an Analog Terminal Adapter (ATA). External line: A line on your

Norstar telephone used for making calls to destinations outside the Norstar system.

External music source: See Music source.

External paging: A feature you can use to make voice announcements over an externally-mounted loudspeaker connected to the Key Service Unit. The external speaker is not a Norstar component and must be supplied by the customer.

Extra-dial telephone: A heading in Administration programming that allows you to assign an extra Direct-dial telephone when a service mode is active. You can have one Extra-dial telephone for each of the three service modes.

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F

Feature button: A button that activates many **Norstar** features when it **is** pressed and followed by a Feature code. The Feature button is also used to exit a feature.

Feature Cartridge: A replaceable cartridge containing the **Norstar features.** The Feature Cartridge, a combination of a Data Cartridge and a Software Cartridge, is inserted into the Key Service Unit.

Feature code: A number that is used to activate a particular feature.

Forward: See Call Forward.

Forward delay: The number of rings before an unanswered call is forwarded to another telephone when the Call Forward **No.Answer** feature is ON. Forward delay is assigned in Administration programming.

Forward No Answer: See Call Forward No Answer.

Forward On Busy: See Call Forward On Busy.

Full Autohold (on idle line): A feature that, when activated, puts a line on hold when you select an available line and then do something that selects another line. Full Autohold is activated.by your Customer Service representative.

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Full Handsfree: See Handsfree.

G

Group Listening: A feature that allows you to have others in your office hear a caller through your phone's speaker. The caller hears you only when you speak into the receiver and cannot hear other'people in the office.

Н

Handsfree: A feature you can use to make calls without using the telephone receiver. Full Handsfree is activated in Administration programming. When it is activated, a Handsfree/Mute button is automatically assigned to the telephone.

Handsfree (HF) Answerback: A feature that automatically turns ON the microphone at a telephone receiving a voice Call so that the person receiving the call can respond without lifting the receiver. Handsfree Answerback is activated in Administration programming.

Handsfree/Mute button: See Handsfree.

Hea set: A head-mounted or ear-4 ounted telephone receiver that is used instead of the hand-held receiver, Headsets are not Norstar components and must be supplied by the customer.

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Held (Line) Reminder: An indication that an external call has been placed on hold for a certain period of time. Your Norstar telephone rings and displays the message On hold: LINENRH. The Held Line Reminder feature and Remind delay are programmed by your Customer Service representative.

HF Answerback: See Handsfree Answerback.

Hold button: A button used to suspend calls so that the person using the telephone can perform another task without disconnecting the caller.

Hookswitch Flash: See Link t i m e .

Host System Signaling: (Also referred to as End-to-End Signaling.), Norstar telephones can access a remote system or dial a number on an alternate carrier by means of Host feature activation. such as Link, Pause and Run/Stop.

Hotline: A feature that automatically calls a pre-assigned number when the telephone's receiver is lifted or the Handsfree/Mute button is pressed. A Hotline number can be an internal or external number. Hotline is programmed in Administration programming.

I/C: An abbreviation of Intercom button.

H.

Installer: A person who installs the Norstar equipment, and performs System Startup and certain programming actions. The Installer or the System Coordinator can program Administration settings.

Intercom button: A buttonthat provides access to internal **lines** used for calls within a **Norstar** system and access to external lines through a Line Pool or external code. A telephone may be assigned zero to eight Intercom buttons. This is done by the Customer Service representative.

Intercom keys: See Intercom button.

Internal line: A line on your telephone dedicated to making calls to destinations inside your **Norstar** system. An internal line may still connect you with an external caller if you use it to access a line pool or to pick up a call using **Norstar** call handling features such as Call 'Park or Call Pickup Directed.

Internal number: A number (also referred to as a **Directory** Number or DN) that identifies a **Norstar** telephone or device.

Internal user: A person using a Norstar telephone within a Norstar system.

Κ

Key. Service Unit (KSU): The central hardware component in the Norstar system. The KSU has its own processor and memory, and provides a physical point of connection for the various types of devices, telephones, and expansion modules used in Norstar The KSU can function on its own as a basic system (with 24 Norstar telephones and 6 external lines), or with the addition of a Trunk Module (TM) that supports more external lines, or a Station Module (SM) that supports more Norstar telephones.

L

Line: The complete path of a voice or data connection between one telephone (or other device) and another.

Line abilities: The heading in Administration programming under which you assign Line Filters, Remote Filters, and Remote Access Packages to lines.

Line filter: See Dialing filter,

Line names: The sub-heading in Administration programming that allows you to assign names to external lines.

Line number: A number that identifies an external line. The total number of lines depends on how many Trunk Modules are installed

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Line Pool: A group of lines used for making external calls, Line Pools provide an efficient way of giving a telephone access to external lines without taking up many line buttons. A line is assigned to be a member of a Line Pool by your Customer Service representative.

Line Pool access code: A number that identifies a Line Pool. Line Pool access codes are assigned by your Customer Service representative.

Line Profile: A feature you can use to review the settings programmed to lines by the Customer Service representative and by Administration programming. The settings cannot be changed with this feature. Line profile is available only on **M7310** and M7324 Telephones.

Line Redirection: A feature that allows you to redirect ail calls on an incoming line to a destination outside the Norstar system. Once a line is redirected it cannot be answered within the Norstar system. The system may be set up to give a brief ring when a call comes in on a redirected line. This feature differs from Call Forward in two ways. It redirects only external calls (not internal calls) and it redirects Calls to destinations outside the system. **C**all forward redirects calls only to destinations inside the Norstar system. See Call Forward and Redirect Ring.

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Link time: A specific time delay that allows access to **PBX** features through a **Norstar** system. Link time is also referred to as a "Hookswitch Flash" or "Recall". Link time is assigned by your Customer Service representative.

Logit: A feature that allows you to manually log call information when you are connected to a call.

Μ

M710D Telephone: A telephone that has a one-line display and one programmable memory button without an indicator.

M7208 Telephone: A telephone that has a one-line display and . eight programmable memory buttons with indicators.

M7310 Telephone: A telephone that has a two-line display, three display buttons, 10 programmable memory buttons with indicators, and 12 dual-memory programmable buttons without indicators. An M7310 Telephone can be equipped with a Busy Lamp Field. 1

M7324 Telephone: A telephone with a two-line display, three display buttons, and 24 programmable memory buttons with indicators. An M7324 Telephone can be equipped with a CAP module.

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M7900 Telephone: A telephone with a touch-screen display that replaces the display and memory buttons of other Norstar telephones. It provides simplified access to Norstar Features and an interface to computer driven application+

Maintenance: A type of programming you can use to diagnose and repair problems in the Norstar system. Maintenance requires no programmable settings.

Memory buttons: The buttons that can be programmed to dial frequently used features or numbers automatically. See M7100, M7208, M731 0, M7324 and M7900 Telephonetentries for their exact memorybutton configurations.

Message: A feature that allows you to indicate to another internal user that you would like them to call you.

Music source: A radio or other source of music that can be connected to the Key Service Unit to provide music for the Music on Hold and Background Music features. A music source is not part of the **Norstar system** and must be supplied by the customer.

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Ν

Narhes: A feature that allows you to assign System Speed Dial numbers, external lines, telephones, and Service Modes in Administration programming. You can use up to sixteen characters to name a System Speed Dial number, and seven characters to name a telephone, line, or Service Mode. If a Name has not been assigned, the line number or DN appears on the display instead of a Name.

Night Service: See Service Modes.

Norstar Programming

Overlay: A paper template that is placed over the top four memory buttons with indicators on the M7310 or M7324 Telephone during programming. The overlay labels indicate the special function that each of the four buttons takes on during programming.

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On hold: A setting that controls whether external callers hear music, periodic tones, or silence when they are placed on hold. This setting is programmed by your Customer Service representative.

Overlay: See **Norstar** Programming Overlay.

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Page: A feature you can use to make announcements over the Norstar system. You can choose Internal Page (announce over the telephone speak:ers), External Page (announce over an externally-mounted, Customer-supplied loudspeaker), or both Internal and External Page.

Ρ

Page Zone: An area in the office that receives internal Page announcements independently of the rest of the office. Each Page Zone IS identified by a number, **Teler** hones are assigned to Page Zones in **Administration** programming.

Park prefix: See Call park prefix.

Park timeout: A delay before an unanswered parked call returns to the telephone that parked it. Park timeout is set by your Customer Service representative. See Call Park.

Password: A specific sequence of digits that you enter to gain access to **Norstar** programming, to override dialing restrictions, or to use Remote Access with **DISA.** Passwords are also required for System Startup and **Administ**ration programming. See Cfass of Service password.

Pause: A character that inserts a 1 S-second delay in a dialing sequence on an external line.

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ersonal Speed Dial: A vo-digit code (71-94) that can programmed to dial external dephone numbers. Personal oeed Dial numbers are rogrammed for each alephone, and can be used niy at the telephone on which tey are programmed.

'ickup Group: A group of alephones. A telephone can be laced into one of nine Call ickup Groups. A call ringing at telephone within a Pickup broup can be picked up at any ther telephone within the same ickup Group. A telephone is ssigned to a Pickup Group in -dministration programming.

'ool; See Line Pool.

re-dial: A feature that allows ou to enter a number and heck it on your telephone isplay before it is actually ialed. If the number is correct, you can edit it. The umber is dialed only when you ick up the receiver or select a ne.

rime line: A line on your alephone that is automatically elected when you lift the aceiver, press the landsfree/Mute button or use in external dialing feature. A rime line is assigned to a alephone by your Customer service representative.

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Prime telephone (Prime set): A telephone that provides backup answering for incoming calls on external lines. The Prime telephone for a line will ring for any unanswered calls on that line. A Prime telephone is assigned to a line by your Customer Service representative.

Priority Call: A feature you can use to make a Voice call to a telephone that is idle, busy or has Do Not Disturb activated. This feature is enabled for a telephone in Administration programming.

Privacy: A feature that determines whether a Norstar user may select a line in use at another telephone and joth an established call. Privacy is set by your Customer Service representative, but can be turned ON and OFF by users during individual calls.

Private line: See Private to.

Private network: A telephone network consisting of owned or leased telephone lines used to connect different offices of an' organization independently of the public network.

Private to: A line assigned to one telephone as a Private line by your Customer Service representative. The line cannet appear on any other telephone, except the Prime telephone for that line. Private lines cannot be placed into Line Pools. Programming: A series of procedures that set the way the Norstar system works. Programming includes system-wide settings and individual telephone and line settings.

Programming Overlay: See Norstar Programming Overlay.

Programming reminder: A chart on which you can record some commonly-used settings from Administration programming to keep the Norstar system's records up-to-date.

Public line: An external line that can be assigned to any telephone and to many telephones. A line is assigned as Public by your Customer -Service representative.

Public network: The regular telephone network that connects most homes and businesses.

R

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Recall: See Link time.

Receiver: The handset of a telephone.

Redirect ring: A sub-heading in Administration programming that allows you to set whether a line that has been redirected through Line Redirection gives a short ring on those telephones on which the line appears.

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Remind delay: A feature that causes a telephone to beep and display the message On hold: LINENAM when a call has been on hold for a programmable period of time. This period is the Remind delay, and is programmed by your Customer, Service representative.

Remote access: The ability to dial into a Norstar system from outside the system and make use of selected Norstar features. The lines, features, and dialing capabilities available to a remote user are determined by the Class of Service. If the remote access line is answered with DISA, the user must enter a Class of Service password to gain access to the Norstar system's features.

Remote access dial filter: See Remote filter.

Remote access package: A sub-heading in Administration programming that allows you set up access to Paging and Line Pools for remote users.

Remote capability: A subset of Norstar features that is available to users connected through Remote Access.

Remote filter: A Dialing filter applied to a line in order to control which digits can be dialed during an incoming remote access call. It is the equivalent of a Telephone filter for a remote user.

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Remote paging: A feature that allows remote users to use the Norstar paging feature. Access to this feature is governed by the Class of Service for the call. See Remote Access and Class of Service.

Remote User: A person who calls into a Norstar system from a telephone Sutside that system and uses Norstar features Or lines. See Bemote Access.

Restrictions: A component of a Dialing filter, Restrictions are numbers you cannot **dial** when that Dialing filter **is** in effect. See Exceptions.

Ringing: A programming function done by your **Customer** Service representative that assigns a line to ring or not ring at a telephone. If a line has been assrgned as "No ring", an Incoming call is shown only by a flashing indicator.

Ringing Telephone (Ringing Set): A telephone that has been assigned to ring when a line has been placed into a Service Mode. Ringing Telephones are assigned in Administration programming.

Ris button: A button that ends a call in the same way that hanging up the receiver does. It may also be used to end Startup, Administration programming, Maintenance sessions and feature operations.

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Run/Stop: A character that creates a breakpoint in a programmed external dialing sequence. When you press a programmed key, the system dials the number up to the Run/Stop. When you press again, the system dials the digits following the Run/Stop.

S

SAPS: See Station Auxiliary Power Supply.

Selective line redirection: See Line Redirection

Service Modes: A feature that provides special ringing and telephone access aft **er normal** office hours, or when there are few people available to answer calls. Certain features become active when one or more lines are placed into a Service Mode. Service Modes settings are assigned in Administration programming.

Set: A telephone.

Set ability: A sub-heading in Administration programming under which set filters, line/Set filters, and a variety of system features are assigned to individual telephones.

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Set Copy: A heading is Configuration programming that allows you to copy programmable settings from one telephone to another of the same type. Set Copy provides two options: duplicating System Data and User Data, or duplicating System Data only. Set Copy does not provide the same copy capability as the COPY display button, which is more selective of the settings that can be duplicated.

Set filter: See Dialing filter.

Set Names: A sub-heading in Administration programming that allows you to assign Names of up to seven characters to telephones.

Set Profile: A feature you can use to review the settings that have been programmed by your Customer Service representative and by yourself in Administration programming. The settings cannot be changed with this feature. Set Profile is available only on the **M7310** and M7324 Telephones.

Set Relocation: See Automatic Telephone Relocation.

Shift button: A small triangular button beside the dual-memory buttons on the upper half of the M7310 Telephone. Press the shift button to store or access features on the top half of the dual-memory buttons.

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Show Time: A feature that allows you see the current date and time on the **Norstar** telephone display while you are on a call.

Station: An individual telephone or other Norstar device.

Station Auxiliary Power Supply (SAPS): A device which provides-power to a Norstar telephone that is connected more than 305 m (1000 ft) and fess than 760 m (2500 ft) from the Key Service Unit, or to a CAP module.

Supervised line: A line for which disconnect supervision is enabled, If an external caller hangs up, the Norstar system detects the disconnection and hangs up its line also.

System Coordinator: A person responsible for customizing the **Norstar** system through Administration programmrng and for helping co-workers use the **Norstar** system.

System Data: An option in the Set Copy function. System Data refers to the system settings that apply to all telephones and lines. System Data consists of the programmable settings from System Startup and Administration programming. It also includes the setting programmed by your Customer Service representative.

System Speed Dial: In Administration programming, a heading under which you can assign up to 70 numbers as System Speed Dial numbers.

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System Speed Dial Code: A two-digit code (01 to 70) that can be programmed to dial a telephone number up to 24 digits long. System Speed Dial codes are programmed for the entre Norstar system in Administration programming.

System Speed Dial Name: A sub-heading io Administration programming under which you can assign a name to a System Speed Dial Jumber.

System Startup: A procedure that initializes the system programming to defaults, When a Norstar system is first installed and powered up, System Startup must be performed before any programming can be done.

Т

Tandem cell: A call established when a **remote** user dials into the Norstar System and uses the system to place an outgoing call. The combination of the Incoming and outgoing calls forms a tandem call. See Remote Access.

Target **line**! A line dedicated to receiving calls from outside the Norstar system.

TCM line (**Time** Compression Multiplexing line): A two-wire digital station loop joining the cross-connect at the Key Service Unit to a telephone.

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Telephone lock (Set lock): A feature that allows you to limit the number of features that may be used or programmed at a telephone. Full telephone lock allows very few changes or features, Partial telephone lock allows some changes and features, and No telephone lock allows any change to be made and any feature to be used. Telephone lock is assigned in Administration programming.

Time and Date: A display description. The current Time and Date appear on the display of idle Norstar telephones. The Time and Date can be changed in Administration programming.

Transfer: A feature that tets you redirect a call to another telephone in your Norstar system, over a network or outside your Norstar system. There are four types of Transfer; Transfer using Hold, Transfer with Announcement, Transfer with Announcement, Announcement, and transfer using Unsupervised Conference. Transfer Callback: A feature that returns a transferred call if is not answered after a specific number of rings. The number of rings is programmed by your Customer Service representative. Transfer Callback does not apply to calls transferred externally.

Trunk: A physical connection between the **Norstar** system and the outside world using either the public telephone system or a private network.

Trunk Answer: A feature you can use to answer a call on any line that has an active Service Mode, even if that line does not appear on your telephone. Trunk Answer is activated in Administration programming.

U

Unsupervised line: A line for which disconnect supervision is disabled. If an external caller hangs up, the **Norstar** system does not detect the disconnection-and does not hang up its line. See Disconnect Supervision. Glossary 1243

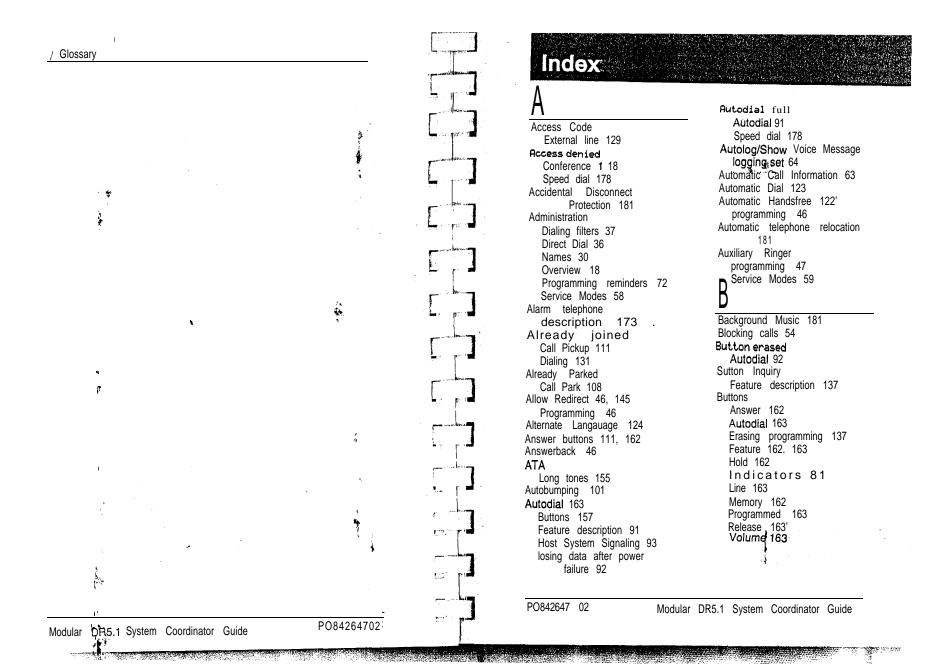
User Data: An option in the Set Copy feature. User Data refers to the personal settings that are unique to an individual telephone, and are not programmed by the Customer Service representative or Administration programming. Usec Data is programmed at each teikphone. These settings, for example, include Personal Speed Dial and the assignment of programmable memory buttons.

User Filter: See Dialing filter.

V

Voice Call: A feature you can use to make an announcement or begin a conversation through the speaker of another telephone in the **Norstar** system. The telephone you call does not ring. Instead, the person you call hears a beep and then your voice. Their telephone beeps periodically to remind them that their microphone is open.

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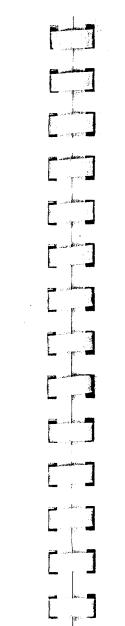
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