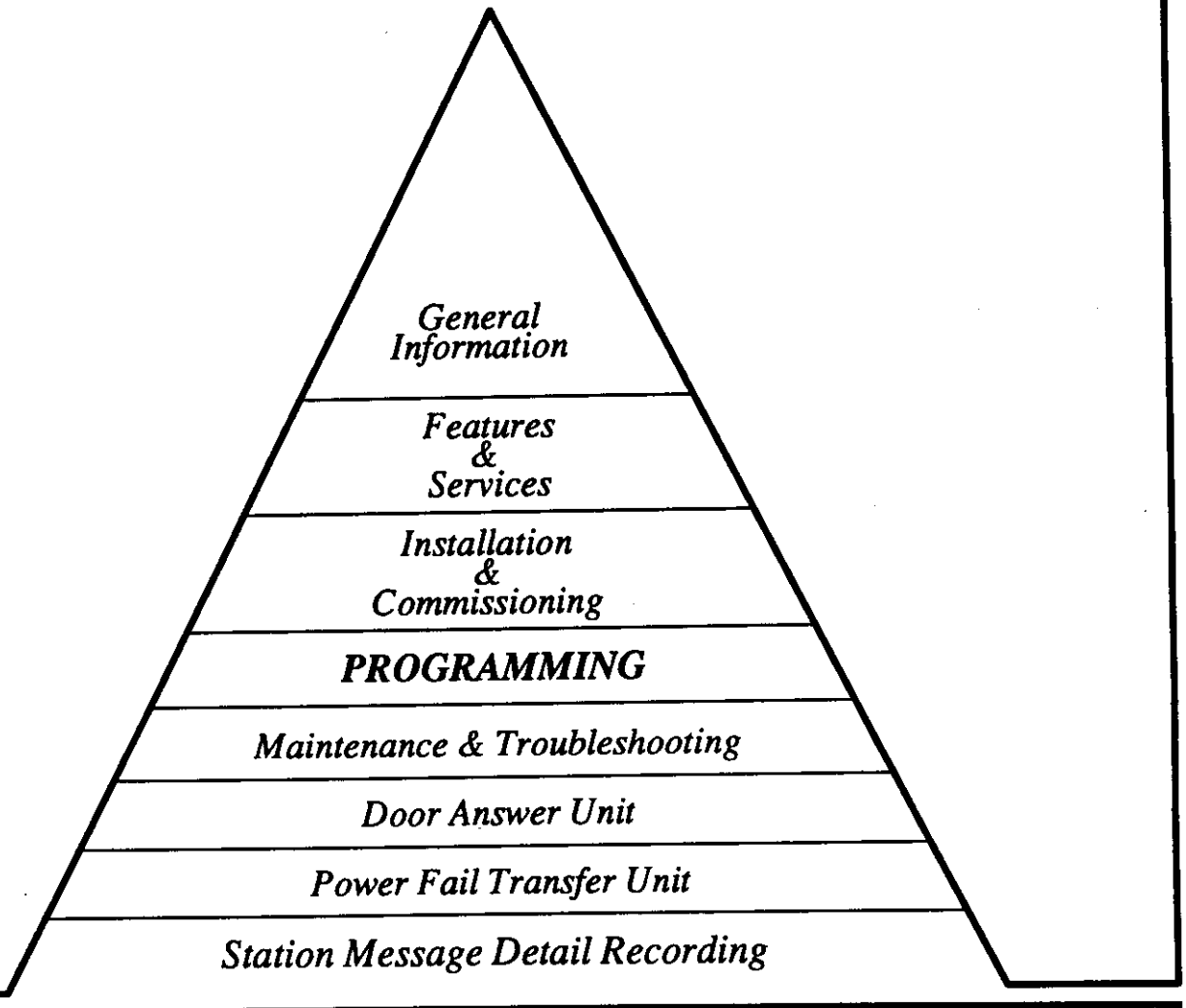
Panther® II

SYSTEM MANUAL



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TRILLIUM telephone systems
a division of Mitel Corporation

This document is for Panther II 820, Panther II 1032, Panther II 2064 Systems and for Panther II Proprietary Peripherals - Panther II Station Message Detail Recording, Door Answer Unit and Power Fail Transfer.

SETTING

TIME & DATE

PROG. 07 HR MN *

PROG 06 YR mo DA
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Panther® II 820/1032/2064-205
Electronic Key Telephone System

PROGRAMMING

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1. GENERAL

Introduction

1.01 This Practice contains information pertaining to the programming of the Panther II 820, 1032 and 2064 systems. Programming should be performed when installation and commissioning of the system, and its ancillary devices (if any), is complete.

Reason for Issue

1.02 This is the first issue of this Practice. It is one of a set of Trillium Standard Practices written to assist a craftsperson install, operate and maintain the system in the field.

2. PROGRAMMING

General

2.01 Programming of the Panther II systems is the process by which information, relating to features and system configuration, is entered into the memory resident in the KSU.

2.02 Programming is accomplished in one of two ways: (i) selecting preprogrammed values stored in the system or; (ii) modifying the preprogrammed values in order to 'customize' the system to the customer's requirements. The latter 'customizing' is accomplished by keying information into the KSU using the keypad of the Panther II Display set designated as 'station 10'. Verification of data entry is shown on the LCD display. Note, the Panther II systems remain operational (except station 10) while programming is in progress, thereby eliminating inconvenience to the user.

How to Use This Practice

2.03 Programming information is arranged under four main headings: System Programming, Station Programming, Group Programming, and Programmable Keys. The **System Programming** subsection describes programming codes which apply to the Panther II System on a systemwide basis. This subsection is further divided into groupings which combine parameters associated with particular applications (e.g., Toll Restriction, SMDR, Tenanting). The **Station Programming** subsection describes codes which are programmed on a set-by-set basis. The **Group Programming** subsection describes codes which are used to place lines and stations into groups. The **Programmable Keys** subsection describes how to set up Prime Line selection, flexible line keys, line pool keys, flexible DSS/Speed keys and feature keys at each individual Set.

2.04 Before programming the Panther II System, read all introductory material, including "Selecting Preprogrammed Values" and "Modifying Preprogrammed Values". Step through the Programming example provided. Although programming can be completed in any order, it is recommended that System Programming be completed first. The Programmable Keys subsection may be performed at the end, after the system is operational, or on an individual user basis, as user's needs become apparent. The following list indicates where specific programming codes are discussed in this Practice.

SYSTEM PROGRAMMING:

General	- Hold Recall Time - Intercom on Hold - Transfer Ringing Time - Forced/Manual Account Code Digits (4, 6 or 8 digits) - Executive Override Tone - Time Display (12/24 Hr.) - Call Forwarding Time - Master Station Number - Multiple Attendants - Simultaneous/Serial Ringing - Camp-on Duration - Camp-on Tone Interval - System Clear
C.O. Specification	- Make/Break Ratio - Pulse Rate - Interdigit Pause - Tone Duration
Type of Line	- Tone or Pulse - Telephone or PBX/Centrex
Behind PBX/Centrex	- Pause on Number - Pause Time - Flash / Cancel / Transfer - Flash/Cancel Timing
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- Manual Select / Auto Intercom / Auto Line
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- Night Transfer Line Groups
- Prime Line Groups

General by Station
- Tenant Groups
- Pickup Groups
- Prime Line Preference
- Zone Paging Groups
- Intercom Tenanting Groups / Station Hunt Groups
- Night Transfer Station Groups

Selecting Preprogrammed Values

2.05 The procedure for selecting the preprogrammed values stored in the KSU is as follows:

> CAUTION: This procedure will clear any existing Speed Call entries and system parameters stored in memory.

Step 1. At the KSU, set the PROGRAM 2 switch to the ON position.

Step 2. Press the RESET button. The KSU LED will begin to flash after a few seconds, indicating that the system is operational with the preprogrammed values.

Step 3. Set the PROGRAM 2 switch to the OFF position.

Step 4. Press the RESET button. The system is operational with the preprogrammed values.

Modifying Preprogrammed Values

2.06 Note, when 'customizing', it is only necessary to modify those parameters which differ from the preprogrammed values. To modify the preprogrammed values, refer to Tables 2-1 through 2-21 and complete the following instructions. A Programming example is provided in paragraph 2.07.

Step 1 At Station 10 (using a Panther II Display Set as the Programming Station), dial *** # 0 1 5**. Station 10's Intercom LED turns ON and the LCD Display confirms that you are in "Programming Mode".

Step 2 For each feature to be changed, dial the appropriate 3- to 7-digit ACCESS CODE (given in Tables 2-1 through 2-21) using the dial pad of Station 10. The LCD Display will confirm each digit as it is dialed, and the Intercom LED will flash very quickly as soon as you dial your first digit.

Step 3 To change the feature value, dial the associated DATA CODE (given in Tables 2-1 through 2-21) using the dial pad of station 10. The LCD Display will confirm each digit as it is dialed, and the Intercom LED will flash quickly as soon as you dial your first data digit.

Step 4 Press the # key. The Intercom LED lights steady.

Step 5 Repeat Steps 2 to 4 for each additional feature you wish to change.

Step 6 Press the * key to exit programming when all changes have been made. The new programming is complete.

NOTES:

1. *To correct an inputting error during Steps 2 and 3*, press the FLASH/CANCEL key, and begin the procedure again at Step 2.

2. *To confirm what is programmed for a particular feature*, it is only necessary to perform Steps 1, 2, and 4 (in order). The programmed value for the feature will be displayed on the LCD after Step 2. When confirmation is completed, go to Step 6.

3. *To confirm all features*, it is only necessary to perform Steps 1, 2, and 4 (in order). Keep pressing the # key to step through access codes. When confirmation is completed, go to Step 6.

4. *To increment during access codes*. For some features such as Flexible Ringing Assignment, it is helpful to be able to store all the line assignments for a particular station before moving to the next station's access code. To perform step programming such as this, press the HOLD key after entering the appropriate data for the first line, station or group during Step 3. This will increment the LCD Display to the next line, station or group. Alternate between entering data and pressing the HOLD key until all lines, stations or groups are programmed, and then continue with Step 4.

PROGRAMMING EXAMPLE: SETTING HOLD RECALL TIME TO 1.5 MINUTES.

2.07 After entering programming mode at Station 10:

1. Locate the Hold Recall Time parameters in Table 2-1.
2. Dial ACCESS CODE 000 (given in Table 2-1).
3. Dial the DATA CODE 3 (to change the recall time to 1.5 minutes).
4. Complete programming by dialing # to store the data, and then dialing * to exit programming mode.

General System Programming

2.08 The General System parameters, including Access Codes and Data Codes are provided in Table 2-1. (Refer to *Panther II 820/1032/2064-105, Features and Services* for more details.) They are:

HOLD RECALL TIME: Defines the Hold Recall Time to be; no reminder, or 30 seconds, 1 minute, 1.5 minutes, 2 minutes, 2.5 minutes, or to remind the user after 2.5 minutes and then return the call to the attendant after 5 minutes. The Hold Recall feature provides a reminder of a call on hold by returning ringing to the set upon expiry of the Hold Recall time.

Preprogrammed Value = No Reminder.

INTERCOM ON HOLD: Defines whether or not the system is set up for Intercom on Hold capability. This feature allows an internal call to be placed on hold.

Preprogrammed Value = No Intercom on Hold capability.

TRANSFER RINGING TIME: Defines the length of time an unanswered set will ring before returning to the set defined by the Transfer Ringing Return feature. Available values are: 10 seconds, 20 seconds, 30 seconds, 45 seconds, 60 seconds, or 90 seconds, or the system can be programmed to ring indefinitely until the transferred caller hangs up.

Preprogrammed Value = 30 seconds.

FORCED/MANUAL ACCOUNT CODE DIGITS: Defines the number of digits that will be required by the system for a forced or manual account code. The number of digits can be 4, 6, or 8.

NOTE: If the Toll Security feature will be used, it is recommended that the Forced/Manual Account Code Digits parameter be left at the preprogrammed value.

Preprogrammed Value = 6 digits.

EXECUTIVE OVERRIDE TONE: Defines whether or not a tone will be heard before a user with Executive Override capability can enter a call in progress.

Preprogrammed Value = Yes.

TIME DISPLAY: This feature defines whether system time will be displayed using a 12-hour or 24-hour clock.

NOTE: System Date/Time is set from the Master Attendant Station. Refer to the Panther II Display Set User Guide (Attendant Console section), for instructions.

Preprogrammed Value = 12-hour clock.

CALL FORWARDING TIME: Defines the length of time that a set will ring before the Internal Call Forwarding - No Answer feature will be applied. Length of time can be 5 seconds, 10 seconds, 20 seconds or 30 seconds.

Preprogrammed Value = 10 seconds.

MASTER STATION NUMBER: (Use Table 2-2) Allows any station to be programmed as the Master Attendant. The Master Station is provided with access to features and services not available at other sets. These features include:

- Control of Common Speed Call programming
- Night Transfer control
- Control of music over an external paging system
- Setting system time and date
- Clearing Set Features
- Setting up Toll Security
- Programming a user's name to appear on the LCD of each Display Set
- Preprogrammed Transfer Ringing Return
- Transfer of Attendant capability
- Preprogrammed Do Not Disturb Override capability
- Preprogrammed ringing during an incoming call on any line
- Preprogrammed Relay Control and Door Answering capability.

Preprogrammed Value = Station 10.

MULTIPLE ATTENDANTS: Designates up to four station numbers as sub-attendants for Station Hunting, Transfer Ringing Return capability, transferring Attendant capability to another station (e.g., during a lunch hour), Dial "0" for Operator, etc.

NOTE: This code should be programmed after Station Hunt Groups in Group Programming have been set up. The sub-attendant station numbers should be programmed as the LOWEST station number in each Station Hunt Group.

Preprogrammed Value = Station 10 for all four groups. (No sub-attendants)

SIMULTANEOUS/SERIAL RINGING: Serial ringing is used for stand-alone systems to ensure that one ringing line will be heard at a time. Simultaneous ringing is typically used behind PBX/Centrex (all ringing signals will be heard simultaneously).

Preprogrammed Value = Serial.

CAMP-ON DURATION: Defines the length of time that a call will be camped-on before ringing is returned either to the originator or to the sub-attendant (depending on how Transfer Ringing Return is programmed for the system). Camp-on duration can be programmed for 30 seconds, 1 minute, 2 minutes, 3 minutes, 5 minutes, or the system can be programmed to ring indefinitely, until the caller hangs up.

Preprogrammed Value = 1 minute.

CAMP-ON TONE INTERVAL: Programmed in conjunction with "Camp-On Duration", this parameter specifies the time interval that will elapse between each 1-second camp-on tone that is sent to the camped-on caller. Programmable parameters are 10 seconds, 20 seconds or 30 seconds.

Preprogrammed Value = 20 seconds.

SYSTEM CLEAR: Specifies which ONE of three System Clear capabilities will be performed on a systemwide basis, when the appropriate code is dialed from Station 10 (the Programming Station). The three possible System Clear options are:

- The capability of clearing ALL System features and resetting the system to its preprogrammed values.
- The capability of clearing ALL Common Speed Call numbers for the system, OR
- The capability of clearing ALL Private Speed Call numbers from all Sets.

Refer to Table 2-1(a) to perform a SYSTEM CLEAR.

Preprogrammed Value = Clear ALL System features.

TABLE 2-1 GENERAL SYSTEM PARAMETERS

Feature Description	Access Code	Condition (Values)	Data Code
Hold Recall Time	000	No recall*	0
		30 seconds	1
		1 minute	2
		1.5 minutes	3
		2 minutes	4
		Recall/Release	5
Intercom On Hold	040	No*	0
		Yes	1
Transfer Ringing Time	017	10 seconds	0
		20 seconds	1
		30 seconds*	2
		45 seconds	3
		1 minute	4
		1.5 minutes	5
		Until caller hangs up	6
Forced/Manual Account Code Digits	021	4 digits	0
		6 digits*	1
		8 digits	2
Executive Override Tone	026	Yes*	0
		No	1
Time Display	033	12-hour clock*	0
		24-hour clock	1

Notes: * denotes preprogrammed value.

TABLE 2-1 (Cont'd) GENERAL SYSTEM PARAMETERS

Feature Description	Access Code	Condition (Values)	Data Code
Call Forwarding Time	036	5 seconds	0
		10 seconds*	1
		20 seconds	2
		30 seconds	3
Multiple Attendants	0370	sub-attendant of Group 1	YY
	0371	sub-attendant of Group 2	YY
	0372	sub-attendant of Group 3	YY
	0373	sub-attendant of Group 4	YY
Default = Station 10 for all groups		*YY= dial any 2-digit station number from 10 - 73*	
Simultaneous/ Serial Ringing	047	Serial ringing*	0
		Simultaneous ringing	1
Camp-On Duration	050	30 seconds	0
		1 minute*	1
		2 minutes	2
		3 minutes	3
		5 minutes	4
		Until caller hangs up	5
Camp-On Tone Interval	051	10 seconds	0
		20 seconds*	1
		30 seconds	2
System Clear *(see Table 2-1(a) to perform a system clear)*	070	Clear ALL system features*	0
		Clear all Common Speed Dials	1
		Clear all Private Speed Dials for all sets	2

Notes: * denotes preprogrammed value.

TABLE 2-1(a) SYSTEM CLEAR

To perform a System Clear:

CAUTION: This procedure will RESET all system programming to its preprogrammed value, and should therefore be used with extreme discretion.

System Clear Option Selected During System Programming (Access Code 070)	To perform, dial the appropriate code from Station 10 (Programming Station)	Result
Clear ALL Features	0700#	All previous system programming will be cleared, and the system will reset to its preprogrammed values.
Clear ALL Common Speed Dial Numbers	0701#	All previously-programmed Common Speed Dial numbers will be cleared automatically.
Clear ALL Private Speed Dial Numbers	0702#	Private Speed Dial numbers programmed at all Sets will be cleared automatically.

NOTE: A System Clear can ONLY be performed for the System Clear Option that was selected in Table 2-1 (using Access Code 070). For example, if the Panther II System was programmed to "Clear ALL Private Speed Dial Numbers", the Programmer/System Manager cannot go to Station 10 and dial 0700# (the code for "Clear ALL Features").

TABLE 2-2 FLEXIBLE MASTER STATION PROGRAMMING

Feature Description	Access Code	Master Station#	Data Code
Master Station Number	053	Sta #10	10 (Preprogrammed Value)
		Sta #11	11
		Sta #12	12
		Sta #13	13
		Sta #14	14
		Sta #15	15
		Sta #16	16
		Sta #17	17
		Sta #18	18
		Sta #19	19
		Sta #20	20
		Sta #21	21
		Sta #22	22
		Sta #23	23
		Sta #24	24
		Sta #25	25
		Sta #26	26
		Sta #27	27
		Sta #28	28
		Sta #29	29
		Sta #30	30
		Sta #31	31
		Sta #32	32
		Sta #33	33
		Sta #34	34
		Sta #35	35
		Sta #36	36
		-	-
		-	-
		-	-
		Sta #72	72
		Sta #73	73

C.O. Line Specification Programming

2.09 The C.O. Specification parameters, including Access Codes and Data Codes are provided in Table 2-3. They are:

MAKE/BREAK RATIO: Defines the on/off ratio of pulses used for pulse dialing; either 33% or 40%.

Note: 33% is not permitted when equipment is to be installed in North America and connected to the North American Telephone Network.

Preprogrammed Value = 40%.

PULSE RATE: Defines the speed at which pulse digits are dialed out; either 10 pps or 20 pps (pps represents pulses per second).

Note: 20 pps is not permitted when equipment is to be installed in North America and connected to the North American Telephone Network.

Preprogrammed Value = 10 pps.

INTERDIGIT PAUSE: Defines the time between pulse-dialed digits as 500 ms, 700 ms, 800 ms or 1100 ms (ms represents milliseconds).

Note: 500 ms is not permitted when equipment is to be installed in North America and connected to the North American Telephone Network.

Preprogrammed Value = 800 ms.

TONE DURATION: Determines the length of each tone digit dialed. Length can be 50 ms, 75 ms, 100 ms or 200 ms.

Preprogrammed Value = 75 ms.

TABLE 2-3 C.O. SPECIFICATION PARAMETERS

Feature Description	Access Code	Condition (Values)	Data Code
Make/Break Ratio	001	33% 40%*	0 1
Pulse Rate	002	10 pps* 20 pps	0 1
Interdigit Pause	003	800 ms* 1100 ms 700 ms 500 ms	0 1 2 3
Tone Duration	004	50 ms 75 ms* 100 ms 200 ms	0 1 2 3

Notes: * denotes preprogrammed value.

Type of C.O. Line Programming

2.10 The *"Type of Line"* parameters, including Access Codes and Data Codes are provided in Table 2-4. They are:

TONE OR PULSE: Determines the type of dialing for each outside line. Choices are Tone or Pulse.

Preprogrammed Value = Tone.

TELEPHONE OR PBX/CENTREX: Tells the KSU, the type of lines that will be connected, either telephone lines (C.O.) or PBX/Centrex lines.

Preprogrammed Value = Telephone (C.O.).

TABLE 2-4 TYPE OF LINE PARAMETERS

Feature Description	Access Code	Condition (Values)	Data Code
Tone/Pulse	060XX	Tone*	0
		Pulse	1
C.O./PBX	061XX	Telephone (C.O.)*	0
		PBX/Centrex	1

Notes: * denotes preprogrammed value

XX = a line number from 01 to 08 on the Panther II 820 system, or 01 to 10 on the Panther II 1032 system, or 01 to 20 on the Panther II 2064 system. To program these access codes, you will need to enter each C.O. line number that needs to be changed from the preprogrammed value (one at a time).

Behind PBX/Centrex Programming

2.11 The Behind PBX/Centrex Programming must be completed when your Panther II system will be connected to PBX/Centrex lines. The parameters, including Access Codes and Data Codes are provided in Table 2-5. They are:

PAUSE ON NUMBER: Instructs the system to pause after a specific number is dialed as the first digit. It is employed when the Panther II system is used behind a PBX/Centrex to allow for second dial tone. More than one number can be selected to activate a pause. The digits specified by the Pause on Number parameters are; pause/no pause on 7, pause/no pause on 8, pause/no pause on 9, pause/no pause on 0.

Preprogrammed Value = No pause on any digit.

PAUSE TIME: Defines the duration of the pause for the "Pause on Number" feature, and for a pause inserted in a speed dial number. The pause time can be set to 1 second through 15 seconds, in 1-second intervals.

Preprogrammed Value = 3 seconds.

FLASH / CANCEL / TRANSFER: Defines the function of the Flash/Cancel key to be a hookswitch flash, a cancel signal for ending calls, or a Transfer key to transfer calls automatically. The duration of the Flash or Cancel signal must be properly set to ensure correct operation (see FLASH/CANCEL TIMING).

Preprogrammed Value = Cancel.

FLASH/CANCEL TIMING: Defines the duration of the Flash or Cancel signal.

Note: Flash Timing is typically 500 msec, while Cancel Timing is typically 1 second.

Preprogrammed Value = 1 second.

TABLE 2-5 BEHIND PBX/CENTREX PARAMETERS

Feature Description	Access Code	Condition (Values)	Data Code
Pause on Number	0120	Pause on 7 - NO*	0
		Pause on 7 - YES	1
	0121	Pause on 8 - NO*	0
		Pause on 8 - YES	1
	0122	Pause on 9 - NO*	0
		Pause on 9 - YES	1
	0123	Pause on 0 - NO*	0
		Pause on 0 - YES	1
Pause Time	013	1 second	01
		2 seconds	02
		3 seconds*	03
		4 seconds	04
		5 seconds	05
		- - - - - - -	- -
		- - - - - - -	- -
		14 seconds	14
		15 seconds	15
Flash/Cancel/ Transfer	005	Flash	0
		Cancel*	1
		Transfer	2
Flash/Cancel Timing	011	20 ms	00
		40 ms	01
		60 ms	02
		80 ms	03
		100 ms	04
		200 ms	05
		300 ms	06
		400 ms	07
		500 ms	08
		600 ms	09
		700 ms	10
		800 ms	11
		900 ms	12
		1 second*	13
		2 seconds	14
		3 seconds	15

Notes: * denotes preprogrammed value.

Loud Bell/Relay Control Programming

2.12 The Loud Bell and Relay Control parameters, including Access Codes and Data Codes are provided in Table 2-6. They are:

LOUD BELL OR RELAY CONTROL: Determines whether the dry contacts will close to activate a loud bell ringer, or to activate optional equipment such as security doors and gates. *See Panther II 820/1032/2064-200, Installation and Commissioning for electrical characteristics of dry contacts.*

Preprogrammed Value = Loud Bell.

LOUD BELL RINGING BY LINE (DURING DAY MODE): Determines which lines will close the dry contacts during an incoming call when the system is in Day Mode.

Preprogrammed Value = Loud Bell Ringing on all lines (during Day Mode).

LOUD BELL RINGING BY LINE (DURING NIGHT MODE): Determines which lines will close the dry contacts during an incoming call when the system is in Night Mode.

Preprogrammed Value = Loud Bell Ringing on all lines (during Night Mode).

AUTO/MANUAL RELAY CONTROL: Specifies whether the relay control will turn off automatically after a programmable length of time (see below), or that it must be manually turned off following operation.

Note: Auto Mode should be selected if the relay activates motorized equipment (e.g., a motorized gate) which only needs a signal to start it. If the relay contact will be used for equipment which requires both a start (ON) and stop (OFF) code (e.g., to open a door and close it after the person has entered), then Manual Mode should be chosen.

Preprogrammed Value = Automatic Return to OFF.

AUTO RETURN TO OFF TIMING: Defines the length of time that the relay contact will remain open, before closing automatically. Values range from 20 ms to 3 seconds. Used in conjunction with AUTO/MANUAL RELAY CONTROL.

Preprogrammed Value = 1 second.

TABLE 2-6 LOUD BELL/RELAY CONTROL PARAMETERS

Feature Description	Access Code	Condition (Values)	Data Code
Loud Bell/ Relay Control	018	Loud Bell*	0
		Relay Control	1
Loud Bell Ringing By Line (DAY MODE)	063XX	Rings selected line during Day Mode*	0
		Does NOT ring selected line during Day Mode	1
Loud Bell Ringing By Line (NIGHT MODE)	064XX	Rings selected line during Night Mode*	0
		Does NOT ring selected line during Night Mode	1
Auto/Manual Return to OFF	019	Automatic Return to OFF*	0
		Manual Return to OFF	1
Auto Return to OFF Timing	052	20 ms	00
		40 ms	01
		60 ms	02
		80 ms	03
		100 ms	04
		200 ms	05
		300 ms	06
		400 ms	07
		500 ms	08
		600 ms	09
		700 ms	10
		800 ms	11
		900 ms	12
		1 second*	13
		2 seconds	14
		3 seconds	15

Notes: * denotes preprogrammed value.

XX = a line number from 01 to 08 on the Panther II 820 system, or 01 to 10 on the Panther II 1032 system, or 01 to 20 on the Panther II 2064 system. To program these access codes, you will need to enter each C.O. line number that needs to be changed from the preprogrammed value (one at a time).

Toll Restriction

2.13 The Toll Restriction parameters, including Access Codes and Data Codes are provided in Table 2-7. Refer to *Panther II 820/1032/2064-105, Features and Services* for more details. They are:

DIGITS TO DENY: Determines the digit on which dialing will be denied for Class B restrictions. Parameter can be from 0 digits to 15 digits.

Preprogrammed Value = Denies 8th digit.

SPLIT RESTRICTION FOR CLASS B: Determines whether the first or last 40 Common Speed call numbers will be available to stations with Class B restrictions.

Preprogrammed Value = No Restriction on Any Common Speed Call numbers.

SPLIT RESTRICTION FOR CLASS C: Determines whether the first or last 40 Common Speed call numbers will be available to stations with Class C restrictions.

Preprogrammed Value = No Restriction on Any Common Speed Call numbers.

TOLL RESTRICTION TABLES: (See Table 2-7 (a))
Defines preprogrammed 1- to 4-digit entries which will be allowed or denied by the six toll restriction groups. After the "allow" and "deny" tables are set up, each line (see below), and then each station (see TOLL RESTRICTION BY STATION - Station Programming) in the Panther II system, is placed in one of the six possible toll restriction groups.

Class A - there are no restrictions on making calls.

Class A' - no restrictions except the preprogrammed entries in "Deny Table A".

"Deny Table A" consists of sixteen possible 1- to 4-digit entries. Preprogrammed entries include the digits 411, 555 and 976.

Class B - dialing any of the preprogrammed entries from "Deny Table B" or dialing the number of "Digits to Deny" when Behind PBX/Centrex, or dialing a restricted Common Speed Call number from the "Split Restriction Table for Class B" will restrict a call. Digits dialed in "Allow Table B" will be accepted.

"Deny Table B" consists of eight possible 1- to 4-digit entries. Preprogrammed entries include the digits 0 and 1.

"Allow Table B" consists of eight possible 1- to 4-digit entries. Preprogrammed entries include the digits 1800 and 800.

Class B' - dialing any of the preprogrammed entries from "Deny Table B" or dialing the number of "Digits to Deny" when Behind PBX/Centrex, or dialing a restricted Common Speed number from the "Split Restriction Table for Class B" will restrict a call.

"Deny Table B" consists of eight possible 1- to 4-digit entries. Preprogrammed entries include the digits 0 and 1.

Class C - no outside calls can be made, except those telephone numbers beginning with preprogrammed entries included in "Allow Table C", or dialing Common Speed Call numbers that are unrestricted in the "Split Restriction Table for Class C".

"Allow Table C" consists of sixteen possible 1- to 4-digit entries. Preprogrammed entries include the digits 911.

Class C' - no outside calls can be made.

Preprogrammed Value = Class A.

TOLL RESTRICTION BY LINE: (See Table 2-7) Allows the 8 lines on the Panther II 820 system, the 10 lines on the Panther II 1032 system, and the 20 lines on the Panther II 2064 system to be placed in one of the six toll restriction groups (above). Programmed in conjunction with TOLL RESTRICTION BY STATION, and the TOLL RESTRICTION TABLES.

TABLE 2-7 TOLL RESTRICTION PARAMETERS

Feature Description	Access Code	Condition (Values)	Data Code
Digits to Deny	014	No Restriction	00
		1st digit	01
		2nd digit	02
		3rd digit	03
		4th digit	04
		5th digit	05
		6th digit	06
		7th digit	07
		8th digit*	08
		9th digit	09
		10th digit	10
		11th digit	11
		12th digit	12
		13th digit	13
		14th digit	14
		15th digit	15
Split Restriction for Class B	0150	First 40§ - Restricted	0
		First 40 - Not Restricted*	1
	0151	Last 40§ - Restricted	0
		Last 40 - Not Restricted*	1
Split Restriction for Class C	0160	First 40§ - Restricted	0
		First 40 - Not Restricted*	1
	0161	Last 40§ - Restricted	0
		Last 40 - Not Restricted*	1
Toll Restriction By Line	065XX	Class A*	0
		Class A'	1
		Class B	2
		Class B'	3
		Class C	4
		Class C'	5

Notes: * denotes preprogrammed value.
§ refers to Common Speed Calls.

XX = a line number from 01 to 08 on the Panther II 820 system, or 01 to 10 on the Panther II 1032 system, or 01 to 20 on the Panther II 2064 system. To program these access codes, you will need to enter each C.O. line number that needs to be changed from the preprogrammed value (one at a time).

TABLE 2-7(a) TOLL RESTRICTION TABLES

Feature Description	Access Code	Condition (Values)	Data Code
Deny Table A for Class A'	042000	Entry 1 (Default = 411)	PPPP
	042001	Entry 2 (Default = 555)	PPPP
	042002	Entry 3 (Default = 976)	PPPP
	042003	Entry 4	PPPP
	042004	Entry 5	PPPP
	042005	Entry 6	PPPP
	042006	Entry 7	PPPP
	042007	Entry 8	PPPP
	- - - -	- - - -	- - - -
	042012	Entry 13	PPPP
	042013	Entry 14	PPPP
	042014	Entry 15	PPPP
	042015	Entry 16	PPPP
Deny Table B for Class B and Class B'	042100	Entry 1 (Default = 0)	PPPP
	042101	Entry 2 (Default = 1)	PPPP
	042102	Entry 3	PPPP
	042103	Entry 4	PPPP
	042104	Entry 5	PPPP
	042105	Entry 6	PPPP
	042106	Entry 7	PPPP
	042107	Entry 8	PPPP
Allow Table B for Class B	043000	Entry 1 (Default = 1800)	PPPP
	043001	Entry 2 (Default = 800)	PPPP
	043002	Entry 3	PPPP
	043003	Entry 4	PPPP
	043004	Entry 5	PPPP
	043005	Entry 6	PPPP
	043006	Entry 7	PPPP
	043007	Entry 8	PPPP
Allow Table C for Class C	043100	Entry 1 (Default = 911)	PPPP
	043101	Entry 2	PPPP
	043102	Entry 3	PPPP
	043103	Entry 4	PPPP
	043104	Entry 5	PPPP
	043105	Entry 6	PPPP
	043106	Entry 7	PPPP
	- - - -	- - - -	- - - -
	043112	Entry 13	PPPP
	043113	Entry 14	PPPP
	043114	Entry 15	PPPP
	043115	Entry 16	PPPP

PPPP = Dial up to four digits to restrict. If less than four digits are required, it is NOT necessary to provide leading "zeros". Default entries can be left as is, or changed to meet individual requirements. If the Panther II system is placed behind PBX, the restricted digits will apply AFTER the PBX access code has been dialed.

Tenanting

2.14 The Tenanting Parameters, including Access Codes and Data Codes are provided in Table 2-8. Refer to *Panther II 820/1032/2064-105, Features and Services* for more details. They are:

TENANT TYPE: This programming is completed in conjunction with Flexible Ringing Assignment, Private/Non-Private Tenanting, Tenant Group and Tenant Group Assignment. It allows you to choose one of four possible line group types:

Type A *- Sets assigned to this line group can only make and answer calls on the lines within the same tenant group.*

Type B *- Sets assigned to this line group can make and answer calls on lines within the same tenant group, and can also answer incoming calls ringing in another group.*

Type C *- Sets assigned to this group can make and answer calls on lines within the same tenant group, and can also receive calls transferred from other groups.*

Type D *- Sets assigned to this group have no restrictions. Includes the features of Types A, B and C.*

Preprogrammed Value = Type A.

PRIVATE / NON-PRIVATE INTERNAL TENANTING: Tenants in Private Mode can access (by an intercom call), only those stations within their own tenant group, whereas tenants in Non-Private Mode can access all other tenants.

Note: It is recommended that Private Mode be selected in situations where two or more separate groups of users are sharing the Panther II system (e.g., two or more businesses in the same building). If all users of the Panther II system are within the same company, but you wish to separate users into four groups for Intercom Tenanting or Station Hunting (Code 124YY), select Non-Private Mode. The selection of Non-Private Mode will allow the groups to communicate with each other. If Intercom Tenanting or Station Hunting will not be used, leave the system in Private Mode, as Code 124YY is preprogrammed with all users in Group 1.

Preprogrammed Value = Private Mode.

TABLE 2-8 TENANTING PARAMETERS

Feature Description	Access Code	Condition (Values)	Data Code
Tenant Type	006	Type A*	0
		Type B	1
		Type C	2
		Type D	3
Private/Non-Private Tenanting	054	Private Mode*	0
		Non-Private Mode	1

Notes: * denotes preprogrammed value.

Station Message Detail Recording

2.15 Station Message Detail Recording Parameters, including Access Codes and Data Codes are listed in Table 2-9. Parameters are listed below. To set up SMDR operation *(enter startup date and time)*, refer to paragraph 2.16. Sample SMDR printouts are provided in Table 2-10.

The SMDR Unit can also be used by maintenance and programming personnel to provide printouts of all programmed site data, including speed call selections for each station. Details of this application are provided in paragraph 2.17.

ACCOUNT CODES PRINTOUT: Determines whether or not Account Codes will be included on the printed SMDR record.

Preprogrammed Value = NO Printout.

SMDR PRINTOUT CONDITIONS: Defines the type of information to be included on SMDR records. Parameters include Print out outgoing, incoming, toll and transferred calls in various combinations.

Preprogrammed Values = All outgoing, all incoming and all transferred calls.

SMDR CALL TIMING: Defines the time (grace period) before the SMDR Unit starts recording information. The chosen value should take into account the average length of time for an outgoing call to be processed and answered. The call timer begins after the last dialed digit. Parameters are from 1 second to 61 seconds.

Preprogrammed Value = 5 seconds.

DIGIT TIMER: Since the SMDR timer needs to recognize when the last digit is actually dialed, a second timer verifies the elapsed time between digits. If the elapsed time exceeds the interdigit timer, the SMDR Call Timer (grace period) is enabled. *In most circumstances, the default preprogrammed value of 10 seconds will be sufficient.*

BAUD RATE: Baud rate can be set to 150, 300, 600, 1200, 2400, 4800 or 9600 baud. The SMDR Interface, and Printer/Terminal baud rates should match.

Preprogrammed Value = 1200 baud.

TABLE 2-9 SMDR PARAMETERS

Feature Description	Access Code	Condition (Values)	Data Code
SMDR Printout Conditions:			
Outgoing Calls	0080	None printed	0
		Only Toll Calls printed	1
		All outgoing calls printed*	2
Incoming Calls	0081	None printed	0
		All incoming calls printed*	1
Transferred Calls	0082	None printed	0
		All transferred calls printed*	1

Notes: * denotes preprogrammed value.

TABLE 2-9 (Cont'd) SMDR PARAMETERS

Feature Description	Access Code	Condition (Values)	Data Code
SMDR Call Timing	009	1 sec.	00
		5 sec.*	01
		9 sec.	02
		13 sec.	03
		17 sec.	04
		21 sec.	05
		25 sec.	06
		29 sec.	07
		33 sec.	08
		37 sec.	09
		41 sec.	10
		45 sec.	11
		49 sec.	12
		53 sec.	13
		57 sec.	14
		61 sec.	15
Digit Timer	010	1 sec.	00
		2 sec.	01
		3 sec.	02
		4 sec.	03
		5 sec.	04
		6 sec.	05
		7 sec.	06
		8 sec.	07
		9 sec.	08
		10 sec.*	09
		11 sec.	10
		12 sec.	11
		13 sec.	12
		14 sec.	13
		15 sec.	14
		16 sec.	15
Baud Rate	045	150 baud	0
		300 baud	1
		600 baud	2
		1200 baud*	3
		2400 baud	4
		4800 baud	5
		9600 baud	6
Account Codes Printout	007	Print Out - Yes	0
		Print Out - No*	1

Notes: * denotes preprogrammed value.

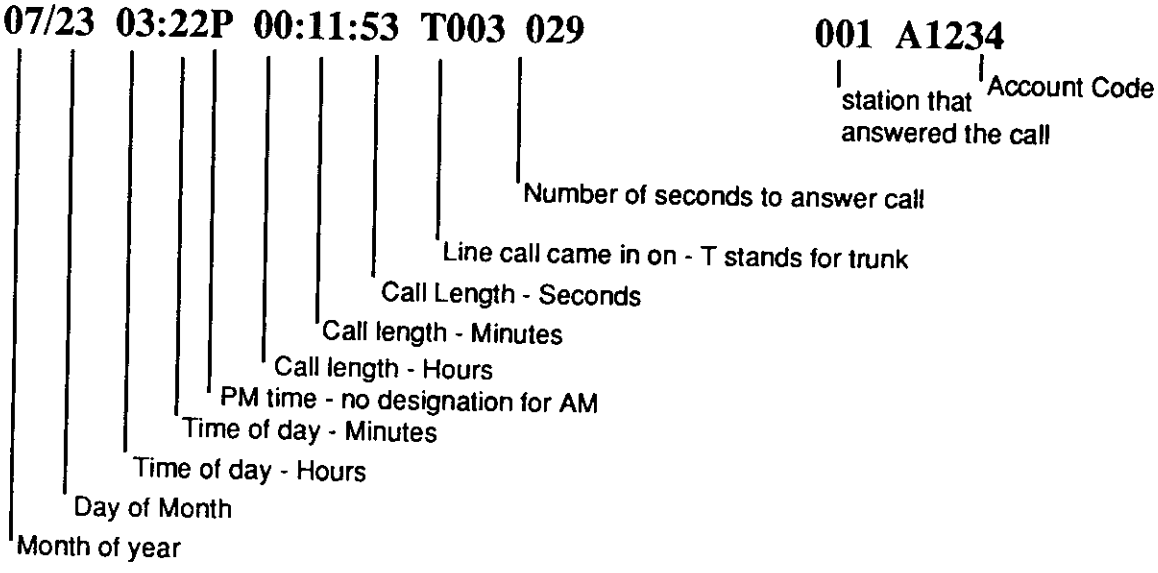
SMDR Startup Operation

2.16 Time and date setting used by the SMDR Unit is set automatically when the system clock is programmed from Station 10. (See "Setting Date/Time" procedures outlined in the *Panther II Display Set Guide* for instructions). If the system has already been in operation and the SMDR option is added later, there is no need to set the SMDR clock. Refer to *Panther II 820/1032/2064-200, Installation and Commissioning* for installation instructions. Date and time information is maintained in memory, even during power failures.

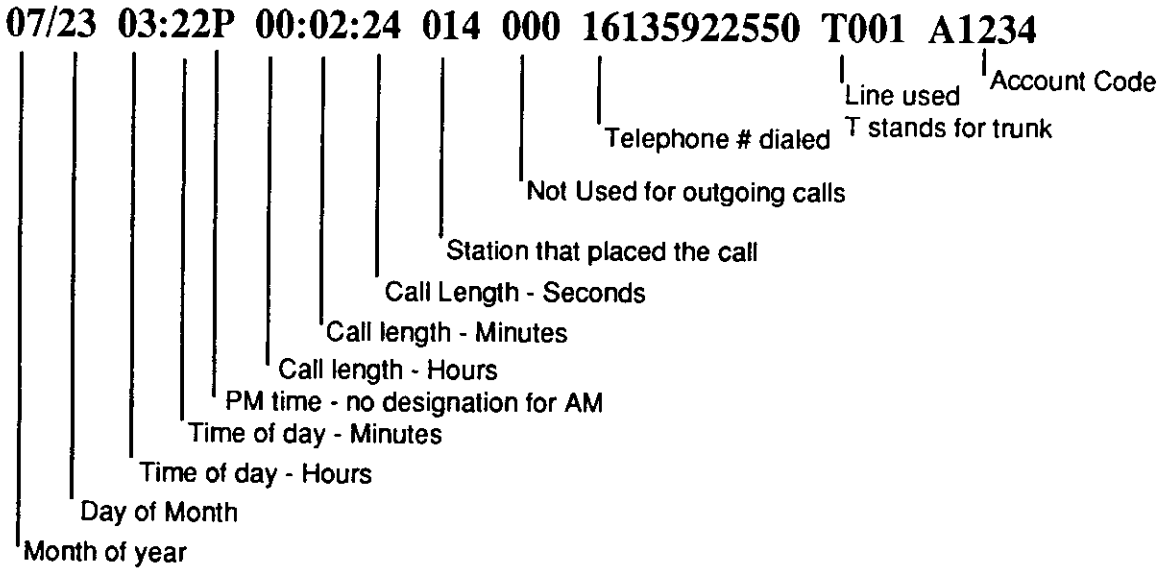
NOTE: Even though the year does not appear on the printout, it must be entered as part of the date so that the SMDR can compensate for leap years.

TABLE 2-10 SAMPLE SMDR PRINTOUTS

Incoming data appears on the printout as follows:



Outgoing data appears on the printout as follows:



Using the SMDR Printout to Verify Data and Check Speed Calls

2.17 While the following program is running, the system is not operational. The following program must be performed from Station 10.

1. At Station 10, press the PROGRAM Key (or dial * #), then dial **0 1 5**. The Intercom LED will turn on.
2. Dial **9 8 7**. The Intercom LED winks.
3. Then dial -

900 to print out the programmed condition for every condition/feature found in the programming charts.

OR **901** to print out all private speed call numbers for ALL stations.

OR **902** to print out all common speed call numbers.

OR **903** to print out the 900, 901 and 902 options at once.

OR **910 - 973** to print out the private speed call numbers for one specific station (Station 10 - 73).

NOTE: Only one code can be printed out at a time. Once printing commences, the Intercom LED will flash quickly.

4. Once the printout has completed, the Intercom LED will light steady, signifying that the printer has stopped.

5. Another printout may be generated by repeating Steps 2 and 3 again (and selecting another code at Step 3).

OR Feature programming may be changed as outlined in the programming charts.

OR Dial * to put the system back into operational mode.

STATION PROGRAMMING

2.18 The General Station Parameters, including Access Codes and Data Codes are provided in Tables 2-11 to 2-15. They are:

TYPE OF SET: Defines the type of Panther telephone set that is connected at each station.

Preprogrammed Value = Panther II Display Set at Station 10 and Panther 1032 or 2064 Sets at all other stations.

CHANGING STATION NUMBERS: (Use Table 2-12). Allows stations to be renumbered for adds, moves and changes, without the need to physically rewire the station number.

EXECUTIVE OVERRIDE: Programmed in conjunction with EXECUTIVE OVERRIDE TONE in System Programming, this feature determines whether each station will or will not have Executive Override capability.

Preprogrammed Value = NO Executive Override capability at any station.

TOLL RESTRICTION BY STATION: Determines which of six classes of service will be allowed at each station (Deny and Allow Tables are provided in TOLL RESTRICTION - System Programming section):

Class A - there are no restrictions on making calls.

Class A' - no restrictions except the preprogrammed entries in "Deny Table A".

Class B - dialing any of the preprogrammed entries from "Deny Table B" or dialing the number of "Digits to Deny" when Behind PBX/Centrex, or dialing a restricted Common Speed Call number from the "Split Restriction Table for Class B" will restrict a call. Digits dialed in "Allow Table B" will be accepted.

Class B' - dialing any of the preprogrammed entries from "Deny Table B" or dialing the number of "Digits to Deny" when Behind PBX/Centrex, or dialing a restricted Common Speed number from the "Split Restriction Table for Class B" will restrict a call.

Class C - no outside calls can be made, except those telephone numbers beginning with preprogrammed entries included in "Allow Table C", or dialing Common Speed Call numbers that are unrestricted in the "Split Restriction Table for Class C".

Class C' - no outside calls can be made.

Preprogrammed Value = Class A.

TRANSFER RINGING RETURN: After TRANSFER RINGING TIME has been set in System Programming, this feature defines where unanswered Transfer Ringing to each Set will return. Parameters included: no return, return to originator then sub-attendant, OR return to sub-attendant. If sub-attendants are not used (see Multiple Attendants - System Programming), ringing returns to the master station.

Preprogrammed Value = Returns to originator, then sub-attendant.

RINGING LINE PICKUP: Determines whether or not each station will have ringing line pickup capability. This allows the user to answer any call simply by going off-hook, pressing the Speaker key, or dialing 9. Calls will be picked up in the following order: C.O. incoming ringing, Transfer ringing, then Intercom (internal) ringing.

Preprogrammed Value = Ringing Line Pickup capability at each station.

DO NOT DISTURB (DND) OVERRIDE: Determines whether or not each station will have DND Override capability. This feature allows the user to override other users who have Do Not Disturb activated at their Set. The capability should only be given as an executive or attendant privilege.

Preprogrammed Value = Only Master Set has DND Override capability.

ACCOUNT CODE TYPE: Specifies whether the system will accept Forced or Manual Account Codes from a station. Refer to *Panther II 820/1032/2064-105, Features and Services* for details. This code is completed in conjunction with FORCED/MANUAL ACCOUNT CODE DIGITS in System Programming.

Preprogrammed Value = Manual Account Codes.

TOLL SECURITY: (Use Table 2-11a). Determines whether or not a station user must dial the Toll Security Code, to have access to an outside C.O. line when the system is in Security Mode. Preprogrammed choices are:

- ***High Level Privilege*** *- This user does not need to dial a Toll Security Code at any time.*
- ***Day Level Privilege*** *- This user does not need to dial the code when the system is in Day Mode, but must dial the Toll Security code in order to have access to an outside line when the system is in Night Mode. This is the preprogrammed value for all Sets.*
- ***Night Level Privilege*** *- This user must dial the code when the system is in Day Mode, but does not need to dial the Security code during Night Mode. This programming choice is typically reserved for those users which do not use the system in Night Mode.*
- ***Low Level Privilege*** *- This user must dial the Toll Security code at all times, in order to have access to an outside line.*

Preprogrammed Value = Day Level Privilege.

ONE TOUCH SPEED DIAL / AUTO LINE HOLD: Allows a call to be placed on hold and transferred simply by pressing a DSS key. When the default value, One Touch Speed Dial is enabled, speed dialing is available at the touch of a button. When Auto Hold is enabled, pressing a DSS key automatically placed a call on hold.

Preprogrammed Value = One Touch Speed Dial.

RELAY CONTROL: Determines if an individual station will have access to relay-controlled equipment. This code is completed AFTER Loud Bell/Relay Control parameters have been set in System Programming.

Preprogrammed Value = No Relay access.

MANUAL / AUTO INTERCOM / AUTO LINE SELECT: Determines whether the Intercom Line is selected automatically, or a C.O. Line is selected automatically or whether the selection must be made manually when the handset is lifted.

Preprogrammed Value = Auto Intercom Line.

HANDSET / HEADSET COMPATIBLE: Allows either a handset or headset to be used at each station.

Preprogrammed Value = Handset.

BLOCK PROGRAMMING: Allows the programming selections for a station to be automatically copied to a block of other stations.

Preprogrammed Value = Not applicable.

FLEXIBLE RINGING ASSIGNMENT: Used to program ringing for each station (10 - 73). Except for Station 10, each station is preprogrammed NOT to ring during an incoming call on any line. Ringing must be programmed for a line to ring at a station. When the Door Answer Option is connected, Line 8 on the Panther II 820 system, Line 10 on the Panther II 1032 system, and Line 20 (for use with a second DAU) on the Panther II 2064 system must also be programmed to ring at the desired stations. *Fill in Tables 2-13 to 2-15 for this feature.*

TABLE 2-11 STATION PARAMETERS

Feature Description	Access Code	Condition (Values)	Data Code
Type of Set	100YY	Panther 1032 or 2064 Set	0
		Panther 306 or 612 Set	1
		Panther II Display Set	2
		Panther II Set	3
		Off-Hook Voice Announce	4
Default is a Panther II Display Set for Station 10 (Master Set), and Panther 1032/2064 Sets for all other stations.			
Executive Override Capability	102YY	No*	0
		Yes	1
Toll Restriction by Station	103YY	Class A*	0
		Class A'	1
		Class B	2
		Class B'	3
		Class C	4
		Class C'	5
Transfer Ringing Return	104YY	Returns to originator, then sub-attendant*	0
		Returns to sub-attendant	1
		No Return	2
For the first two options, if no sub-attendants are programmed, then ringing returns to the Master Set.			
Ringing Line Pickup	105YY	Yes*	0
		No	1
DND Override Capability	106YY	Yes	0
		No*	1
Default is NO for every station, except Station 10 (Master Set).			
Account Code Type	107YY	Manual Account Codes*	0
		Forced Account Codes	1
One Touch Speed Dial / Auto Line Hold	110YY	One Touch Speed Dial*	0
		Auto Line Hold	1
Relay Access	111YY	No Relay access*	0
		Relay access	1
Default is NO for every station, except Station 10 (Master Set).			

Notes: * denotes preprogrammed value

YY= a station number from 10 to 29 on the Panther II 820 system, or 10 to 41 on the Panther II 1032 system, or 10 to 73 on the Panther II 2064 system. To program these access codes, you will need to enter each station number that needs to be changed from the preprogrammed value (one at a time).

TABLE 2-11 (Cont'd) STATION PARAMETERS

Feature Description	Access Code	Condition (Values)	Data Code
Manual Select / Auto Intercom / Auto C.O.	113YY	Automatic Intercom* Automatic C.O. Manual Select	0 1 2
Handset / Headset	115YY	Handset* Headset	0 1
Block Programming *(see below)*	118AA		MMNN

Notes: * denotes preprogrammed value

YY= a station number from 10 to 29 on the Panther II 820 system, or 10 to 41 on the Panther II 1032 system, or 10 to 73 on the Panther II 2064 system. To program these access codes, you will need to enter each station number that needs to be changed from the preprogrammed value (one at a time).

BLOCK PROGRAMMING

AA= the 2-digit number of a station whose programming characteristics you would like to copy to a block of other stations.

MM= the 2-digit number of a station that is the start of the block of stations you will copy to.

NN = the 2-digit number of the station that is the end of the block of stations you will copy to.

FOR EXAMPLE: To copy the programmed characteristics of Station 12 to a block of stations (Stations 25 through 36 inclusive), dial the digits: 118122536.

TABLE 2-11(a) TOLL SECURITY

Programming instructions provided on this page must be completed from the Master Station (preprogrammed as Station 10). Toll Security setup requires two programming procedures. In the first procedure, up to six 4-digit security codes are entered into memory. Later, when a user dials one of these six codes, they will be able to override the Toll Security system (and gain access to an outside line). In the second procedure, each station in the system is programmed with one of the four Toll Security levels; either High Level, Night Level, Day Level or Low Level. Refer to TOLL SECURITY in this Section for more details. *NOTE: It is recommended that Toll Security codes be changed on a frequent basis, and that security codes be given out ONLY to those individuals who will have override privileges.*

PROCEDURE 1 TO SET UP TOLL SECURITY CODES

1. At Station 10, press the PROGRAM key (or dial * #) to enter Programming Mode.
2. Dial the digits **0 5**.
3. Dial one of the six Toll Security codes that you wish to change (1 to 6):

1. Security Code 1. _____	4. Security Code 4. _____
2. Security Code 2. _____	5. Security Code 5 _____
3. Security Code 3. _____	6. Security Code 6. _____

4. For the Code chosen in Step 3, now store any combination of four digits (0000 to 9999) which will allow a user to override Toll Security (e.g., 2345). *Preprogrammed values are 9999 for all six Security numbers.* Using a pencil, write the stored number on the corresponding line in Step 3.
5. Press the * key to exit programming. The procedure can be repeated at any time, to overwrite/change a Toll Security Code.

PROCEDURE 2 TO ENABLE TOLL SECURITY AT A STATION

NOTE: The following procedure must be completed twice for each station; once for Night Mode and once for Day Mode:

1. At Station 10, press the PROGRAM key (or dial * #) to enter Programming Mode.
2. Dial the digits **0 9**.
3. Dial the 2-digit station number (10 to 73). Then,
4. (A) TO ENABLE TOLL SECURITY DURING NIGHT MODE, dial
   - **1 1** - Security Code Required *(for LOW level and DAY level privileges)*
     OR
   - **1 0** - No Security Code Required *(for NIGHT level and HIGH level privileges).*

   O R

   (B) TO ENABLE TOLL SECURITY DURING DAY MODE, dial
   - **0 1** - Security Code Required *(for LOW level and NIGHT level privileges)*
     OR
   - **0 0** - No Security Code Required *(for DAY level and HIGH level privileges).*
5. Press the * key to exit programming.

TABLE 2-12 CHANGING STATION NUMBERS

Step 1. At Station 10 (using a Panther II Display Set), dial * **# 0 1 5**.

Step 2. Dial 128YY (where YY is the hardwired 2-digit station number from 10 to 73).

Step 3. Dial the NEW 2-digit number for this station. Record the new number in the table below.

Step 4. Press the # key to store the data.

Step 5. Repeat Steps 2 to 4 for each additional station.

Step 6. Press the * key to exit programming when all changes have been made. The new programming is complete.

TABLE 2-12 CHANGING STATION NUMBERS

Hardwired Station #	New Station #	Hardwired Station #	New Station #	Hardwired Station #	New Station #	Hardwired Station #	New Station #
10 -		26 -		42 -		58 -	
11 -		27 -		43 -		59 -	
12 -		28 -		44 -		60 -	
13 -		29 -		45 -		61 -	
14 -		30 -		46 -		62 -	
15 -		31 -		47 -		63 -	
16 -		32 -		48 -		64 -	
17 -		33 -		49 -		65 -	
18 -		34 -		50 -		66 -	
19 -		35 -		51 -		67 -	
20 -		36 -		52 -		68 -	
21 -		37 -		53 -		69 -	
22 -		38 -		54 -		70 -	
23 -		39 -		55 -		71 -	
24 -		40 -		56 -		72 -	
25 -		41 -		57 -		73 -	

FLEXIBLE RINGING ASSIGNMENT:

2.19 After filling in your Flexible Ringing Assignment selections in:

- Table 2-13 (if you are connecting a Panther II 820 System),
- Table 2-14 - for the first 10 lines/32 stations (if you are connecting a Panther II 1032 System),

OR

- Table 2-14 and Table 2-15 (if you are connecting a Panther II 2064 System),

Step 1. At Station 10 (using a Panther II Display Set), dial *** # 0 1 5**.

Step 2. Dial **119YY** (where YY is a 2-digit station number from 10 to 73).

Step 3. Dial **XX** (where XX is a 2-digit line number from 01 to 20).

Step 4. Dial the digit **0**, if you **do not** want the selected line to ring at the selected station,

OR

Dial the digit **1**, if you want the selected line to ring at the selected station.

Note: Only Station 10 is preprogrammed to ring during an incoming call on all lines.

Step 5. After the inputted data is displayed, press the **HOLD** key to increment to the next line.

Step 6. Repeat Steps 4 and 5 for each line assignment at that station. When the last line assignment has been entered:

- Press the **HOLD** key to increment to the next station number,
  OR
- Press # to store all previous data or dial a new access code.

Step 7. Press the * key to exit programming when all selections have been made. The new programming is complete.

TABLE 2-13 FLEXIBLE RINGING ASSIGNMENT

PANTHER II 820 SYSTEM

Check off which lines you would like to ring at each station.

STATIONS

C.O. LINES

	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				

Not Used on Panther II 1032 System

TABLE 2-14
FLEXIBLE
RINGING
ASSIGNMENT

Panther II
1032 System

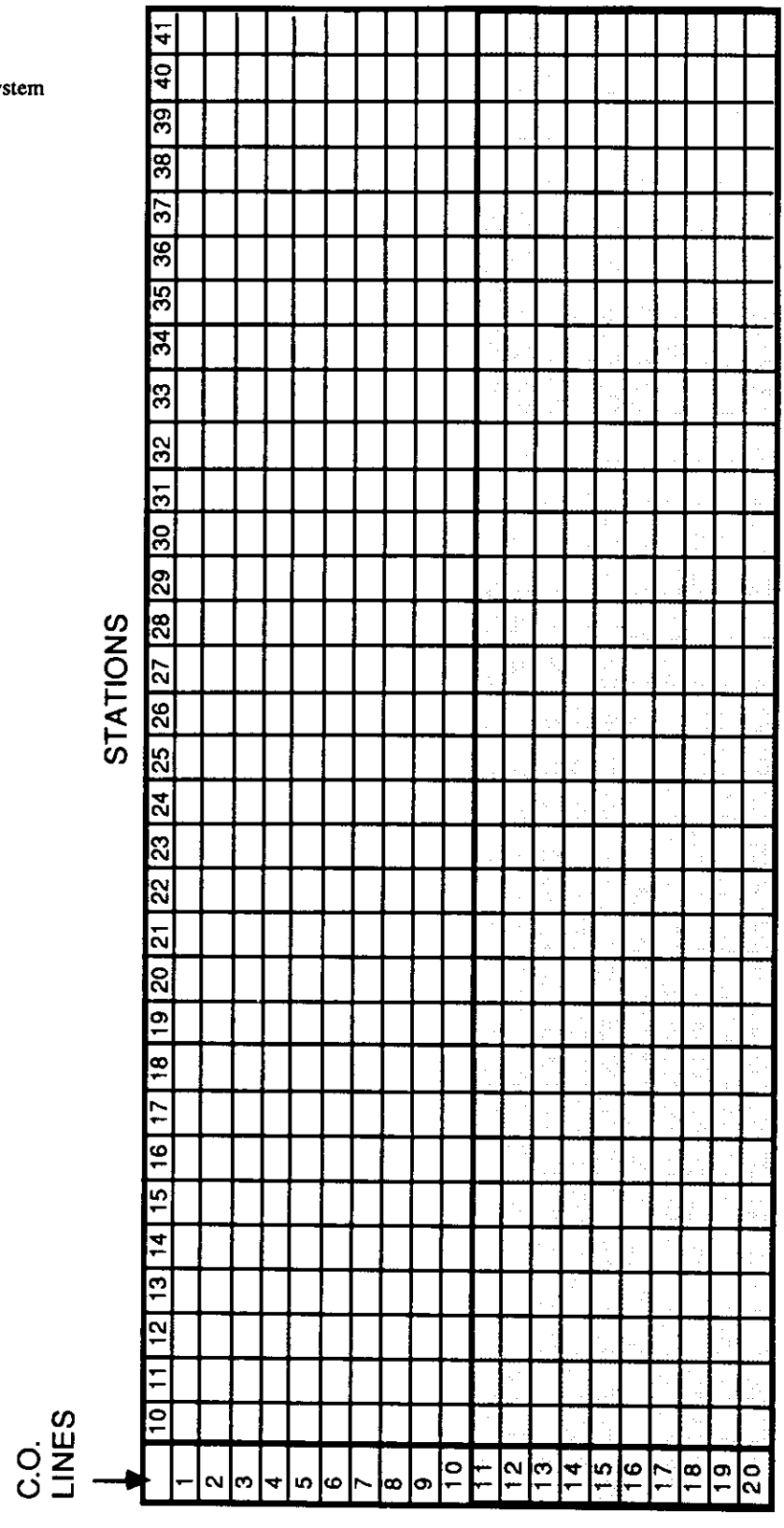
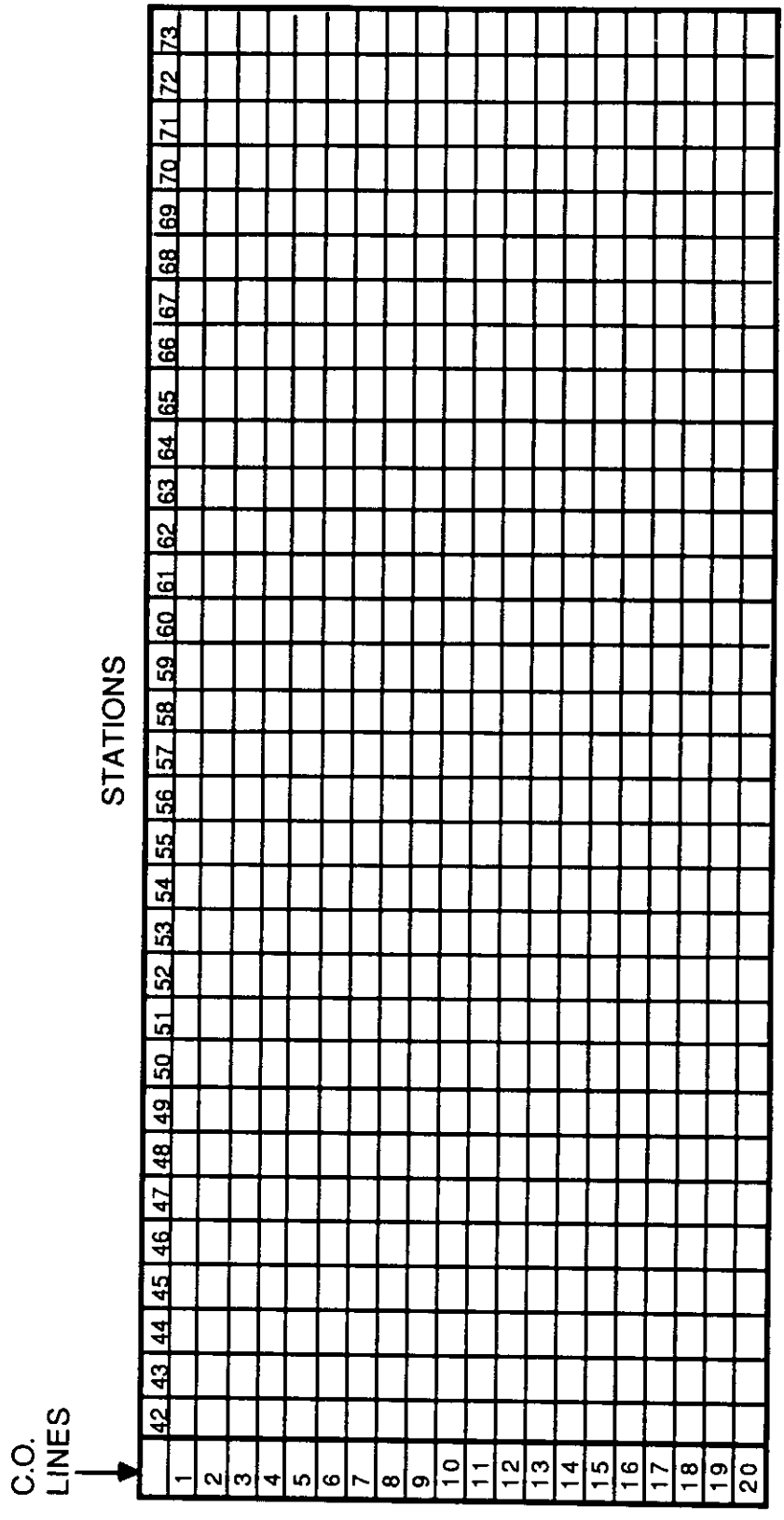


TABLE 2-15

FLEXIBLE RINGING ASSIGNMENT

Panther II 2064 System

Use all of Table 2-14 (for the first 32 stations), and this chart (for the remaining 32 stations) to fill in which lines will ring at each station.



GROUP PROGRAMMING

General by Line

2.20 The Group Parameters, including Access Codes and Data Codes are provided in Tables 2-16 to 2-19. The parameters are:

> **TENANT GROUP ASSIGNMENT:** Up to 8 lines on the Panther II 820 system, or 10 lines on the Panther II 1032 system, or 20 lines on the Panther II 2064 system are put into one of 15 Tenant Groups. Use Table 2-16 to check off which lines are to be included in each group from 01 to 15. Note: A line can be in more than one tenant group.

2.21 After filling in your Tenant Group Assignment selections in Table 2-16:

Step 1. At Station 10 (using a Panther II Display Set), dial * **# 0 1 5**.

Step 2. Dial **201ZZ** (where ZZ is a 2-digit group number from 01 to 15).

Step 3. Dial **XX** (where XX is a 2-digit line number from 01 to 20).

Step 4. Dial the digit **1**, if you want the selected line in the selected group,
OR
Dial the digit **0**, if you **do not** want the selected line in the selected group.

Step 5. After the inputted data is displayed, press the **HOLD** key to store the data and increment to the next line.

Step 6. Repeat Steps 4 and 5 until all lines in a particular group are programmed, then

- Press the **HOLD** key to increment to the next group number,
  OR
- Press # to store all previous data or dial a new access code.

Step 7. Press the * key to exit programming when all selections have been made. The new programming is complete.

TABLE 2-16 (a) TENANT GROUP ASSIGNMENT

	Lines									
Group Number	CO1	CO2	CO3	CO4	CO5	CO6	CO7	CO8	CO9	CO10
no group										
group 1										
group 2										
group 3										
group 4										
group 5										
group 6										
group 7										
group 8										
group 9										
group 10										
group 11										
group 12										
group 13										
group 14										
group 15										

TABLE 2-16 (b) TENANT GROUP ASSIGNMENT

	Lines									
Group Number	CO11	CO12	CO13	CO14	CO15	CO16	CO17	CO18	CO19	CO20
no group										
group 1										
group 2										
group 3										
group 4										
group 5										
group 6										
group 7										
group 8										
group 9										
group 10										
group 11										
group 12										
group 13										
group 14										
group 15										

LINE POOLING GROUPS: Up to 8 lines on the Panther II 820 system, or 10 lines on the Panther II 1032 system, or 20 lines on the Panther II 2064 system are put into one of four Pool Groups. Use Table 2-17 to check off which lines are to be included in each group from 01 to 04.

Note: Only "like" lines should go into a line pool (e.g., a pool is made up of all "same area" WATS lines, local lines, FX lines, and so on). The same line will not be in more than one line pool group. Pool groups should be organized so that there is one primary line pool with an unlimited number of lines, and three other pool groups.

*** To enable LINE POOLS as PROGRAMMABLE KEYS (on individual Sets), refer to Subsection 3.**

2.21 After filling in your Line Pooling Group selections in Table 2-17:

Step 1. At Station 10 (using a Panther II Display Set), dial ***#015**.

Step 2. Dial **204RR** (where RR is a 2-digit pool group number from 01 to 04).

Step 3. Dial **XX** (where XX is a 2-digit line number from 01 to 20).

Step 4. Dial the digit **0**, if you **do not** want the selected line in the selected pool group,

OR

Dial the digit **1**, if you want the selected line in the selected pool group.

Step 5. After the inputted data is displayed, press the **HOLD** key to store the data and increment to the next line.

Step 6. Repeat Steps 4 and 5 until all lines in a particular line pool are programmed, then

- Press the **HOLD** key to increment to the next pool number,
  OR
- Press # to store all previous data or dial a new access code.

Step 7. Press the * key to exit programming when all selections have been made. The new programming is complete.

TABLE 2-17 LINE POOLING GROUPS

POOL GROUP	LINES 01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
01																				
02																				
03																				
04																				

Check off each line you would like in each line pool group.

NIGHT TRANSFER LINE GROUPS: Up to 8 lines on the Panther II 820 system, or 10 lines on the Panther II 1032 system, or 20 lines on the Panther II 2064 system are put into one of four Night Transfer Line Groups. Use Table 2-18 to check off which lines are to be included in each group from 01 to 04. Note: A line can be in more than one Night Transfer Line Group.

2.22 After filling in your Night Transfer Line Group selections in Table 2-18:

Step 1. At Station 10 (using a Panther II Display Set), dial * **# 0 1 5**.

Step 2. Dial **203RR** (where RR is a 2-digit Night Transfer Line Group number from 01 to 04).

Step 3. Dial **XX** (where XX is a 2-digit line number from 01 to 20).

Step 4. Dial the digit **0**, if you **do not** want the selected line in the selected Night Transfer Line Group,

OR

Dial the digit **1**, if you want the selected line in the selected Night Transfer Line Group.

Step 5. After the inputted data is displayed, press the **HOLD** key to store the data and increment to the next line.

Step 6. Repeat Steps 4 and 5 until all lines in a particular group are programmed, then

- Press the **HOLD** key to increment to the next Night Transfer Line Group number,

  OR

- Press # to store all previous data or dial a new access code.

Step 7. Press the * key to exit programming when all selections have been made. The new programming is complete.

TABLE 2-18 NIGHT TRANSFER LINE GROUPS

GROUP	LINES																			
	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20
01																				
02																				
03																				
04																				

Check off each line you would like in each Night Transfer Line Group.

PRIME LINE GROUPS: Up to 8 lines on the Panther II 820 system, or 10 lines on the Panther II 1032 system, or 20 lines on the Panther II 2064 system are put into one of 15 Prime Line Groups. Use Table 2-19 to check off which lines are to be included in each group from 01 to 15. Note: A line can be in more than one Prime Line group. (Refer also to PRIME LINE PREFERENCE in this subsection).

To enable a PRIME LINE (*at individual Sets*), refer to PROGRAMMABLE KEYS, Subsection 3.

2.23 After filling in your Prime Line Group Assignment selections in Table 2-19:

Step 1. At Station 10 (using a Panther II Display Set), dial * **# 0 1 5.**

Step 2. Dial **202ZZ** (where ZZ is a 2-digit group number from 01 to 15).

Step 3. Dial **XX** (where XX is a 2-digit line number from 01 to 20).

Step 4. Dial the digit **0**, if you **do not** want the selected line in the selected group,
OR
Dial the digit **1**, if you want the selected line in the selected Prime Line group.

Step 5. After the inputted data is displayed, press the **HOLD** key to store the data and increment to the next line.

Step 6. Repeat Steps 4 and 5 until all lines in a particular group are programmed, then

- Press the **HOLD** key to increment to the next Prime Line number,
  OR
- Press # to store all previous data or dial a new access code.

Step 7. Press the * key to exit programming when all selections have been made. The new programming is complete.

TABLE 2-19 (a) Prime Line Group Assignment

	Lines									
Group Number	CO1	CO2	CO3	CO4	CO5	CO6	CO7	CO8	CO9	CO10
no group										
group 1										
group 2										
group 3										
group 4										
group 5										
group 6										
group 7										
group 8										
group 9										
group 10										
group 11										
group 12										
group 13										
group 14										
group 15										

General by Station

2.24 The Group Parameters, including Access Codes and Data Codes are provided in Tables 2-20 and 2-21. The parameters are:

TENANT GROUPS: (Table 2-20) After the 8 lines on the Panther II 820 system, or the 10 lines on the Panther II 1032 system, or the 20 lines on the Panther II 2064 system have been assigned to the 15 Tenant groups (see GROUP PROGRAMMING - General by Line), each station must be assigned to one of the 15 groups.

Note: If two businesses are sharing a system and Private Mode was selected in Tenanting parameters, the stations available to each business should be placed in separate tenant groups.

Preprogrammed Value = No Tenant Groups.

TABLE 2-19 (b) Prime Line Group Assignment

	Lines									
Group Number	CO11	CO12	CO13	CO14	CO15	CO16	CO17	CO18	CO19	CO20
no group										
group 1										
group 2										
group 3										
group 4										
group 5										
group 6										
group 7										
group 8										
group 9										
group 10										
group 11										
group 12										
group 13										
group 14										
group 15										

PICKUP GROUPS: (Table 2-20) In order to perform the Call Pickup-Local feature on the Panther II system, each station must be assigned to at least one of the fifteen 2-digit pickup groups (01 to 16). The pickup groups should be organized so that stations in close physical proximity to each other are placed in the same pickup group.

Preprogrammed Value = All stations are placed in Pickup Group 01.

PRIME LINE PREFERENCE: (Table 2-20) If the lines have been assigned to the 15 Prime Line groups (using the GROUP PROGRAMMING - General by Line method), each station must be assigned to one of the 15 groups.

Note: It is recommended that each Panther II Set (Basic Set) be set up with its own individual Prime Line for easy call processing. Other users, such as those users with Panther II Display Sets may wish to have a Prime Line, but the System Manager must set up this capability from the individual's Set (using the procedure outlined in Subsection 3).

Preprogrammed Value = No Prime Line Preference groups.

TABLE 2-20 GROUP PARAMETERS

Feature Description	Access Code	Condition (Values)	Data Code
Tenant Groups	121YY	No Assignment*	00
		Group 1	01
		Group 2	02
		Group 3	03
		Group 4	04
		Group 5	05
		Group 6	06
		Group 7	07
		Group 8	08
		- - -	- -
		- - -	- -
		Group 15	15
Pickup Groups	125YY	Group 1*	01
		Group 2	02
		Group 3	03
		Group 4	04
		Group 5	05
		Group 6	06
		Group 7	07
		Group 8	08
		- - -	- -
		- - -	- -
		Group 15	15
Prime Line Preference	123YY	No Assignment*	00
		Group 1	01
		Group 2	02
		Group 3	03
		Group 4	04
		Group 5	05
		Group 6	06
		Group 7	07
		Group 8	08
		- - -	- -
		- - -	- -
		Group 15	15

Notes: * denotes preprogrammed value

YY= a station number from 10 to 29 on the Panther II 820 system, or 10 to 41 on the Panther II 1032 system, or 10 to 73 on the Panther II 2064 system. To program these access codes, you will need to enter each station number that needs to be changed from the preprogrammed value (one at a time).

ZONE PAGING GROUPS: In order to perform the Zone Paging feature on the Panther II system, each station must be assigned to at least one of the fifteen 2-digit pickup groups (01 to 15). Paging groups can be organized by department, function or proximity.

Preprogrammed Value = No Zone Paging Groups.

2.25 To set up Zone Paging Groups:

Step 1. At Station 10 (using a Panther II Display Set), dial * **# 0 1 5.**

Step 2. Dial **122YY** (where YY is a 2-digit station number from 10 to 73).

Step 3. Dial **ZZ** (where ZZ is a 2-digit Zone Paging Group from 01 to 15).

Step 4. Dial the digit **0**, if you **do not** want the selected station to be included in the selected Zone Paging group,

OR

Dial the digit **1**, if you want the selected station to be included in the selected Zone Paging group.

Step 5. After the inputted data is displayed, press the **HOLD** key to store the data and increment to the next Zone Paging Group.

Step 6. Repeat Steps 4 and 5 until all zones at the particular station are elected, then

- Press the **HOLD** key to increment to the next station number,
  OR
- Press # to store all previous data or dial a new access code.

Step 7. Press the * key to exit programming when all selections have been made. The new programming is complete.

INTERCOM TENANTING / STATION HUNT GROUPS: (Table 2-21) This programming code allows all stations to be placed into one of four groups for Intercom Tenanting or Station Hunting purposes. Refer to *Panther II 820/1032/2064-105, Features and Services* for more details. Each station can be placed in only one group. If the four groups must be able to communicate with each other, ensure that the system has been changed to Non-Private Mode (as described in System Programming). See also MULTIPLE ATTENDANTS - System Programming, if sub-attendants will be linked to each group.

NOTE: Intercom Tenanting capability will be affected by TENANT TYPE programming.

Preprogrammed Value = All users in Group 1.

NIGHT TRANSFER STATION GROUPS: (Table 2-20) After the lines have been assigned to the four NIGHT TRANSFER LINE GROUPS (see GROUP PROGRAMMING - General by Line), each station must be assigned to one of the four groups.

Preprogrammed Value = No Night Transfer Station Groups.

TABLE 2-20 GROUP PARAMETERS BY STATION

Feature Description	Access Code	Condition (Values)	Data Code
Night Transfer Station Groups	101YY	No Ringing*	0
		Group 1	1
		Group 2	2
		Group 3	3
		Group 4	4
Intercom Tenanting/ Station Hunt Groups	124YY	Group 1*	0
		Group 2	1
		Group 3	2
		Group 4	3

Notes: * denotes preprogrammed value

YY= a station number from 10 to 29 on the Panther II 820 system, or 10 to 41 on the Panther II 1032 system, or 10 to 73 on the Panther II 2064 system. To program these access codes, you will need to enter each station number that needs to be changed from the preprogrammed value (one at a time).

3. PROGRAMMABLE KEYS

3.01 This subsection discusses how to program Prime Lines, flexible C.O. keys, Line Pools, flexible DSS/Speed keys, feature keys and unused keys for an individual Set. All programming outlined in this subsection is to be completed by the System Manager at each Set.

Prime Line Select

3.02 For simple call processing, a specific line (01 to 20) may be designated as the Prime Line for a particular Set. This ensures simple, automatic access to the designated line for all incoming and outgoing calls. The choice of a Prime Line should take into account which lines the user has access to, and which lines will not conflict with other users in the System. It is recommended that a Prime Line be set up for each Panther II Set (Basic Set) in the system. Once Prime Line Select is set up, the user will have quick access to the Prime Line by dialing 9, or (if Auto C.O. Select is programmed for the Set), simply lifting the handset or pressing the SPEAKER key.

To set up a Prime Line:

1. At the Set, press the PROGRAM key (or dial * #), and dial **5**.
2. Dial one of the following codes to specify the Prime Line:
   00: for last line, or
   01 - 20: for a specific line in the system.
3. Press * to exit Programming Mode.

Programming C.O. Keys (Codes 001 to 020)

3.03 Flexible C.O. Line Programming allows increased flexibility of C.O. lines on a set-by-set basis. Line keys can be programmed to be any possible line (or pool of lines) on the system. The procedure for programming LINE KEYS is given in Table 3-1, and can be performed on the following Sets:

- Panther 306 Sets - Lines 1, 2, and 3.
- Panther 612 Sets - Lines 1 to 6.
- Panther 1032, 2064 or Panther II Display Sets - Any key located on the designation card.
- Panther II Set - not applicable.

NOTE: Only one key can be programmed as a particular line. The same line will not be in more than one line pool, however a line can be both a line key and a line pool on individual Sets.

Programming Line Pool Keys (Codes 051 to 054)

3.04 This feature allows a standard line key to be used to access a group of "like" lines for outgoing calls (e.g., "same area" WATS lines, local lines, FX lines, and so on). It is recommended that one key is programmed for the primary line pool, and that the primary line pool be made up of local lines. The System Manager decides which C.O. line key on each station Set will be "replaced" by a line pool.

NOTE: Only one key can be programmed as a particular line. The same line will not be in more than one line pool, however a line can be both a line key and a line pool on individual Sets.

If there is no available line pool key, an access code can be dialed to select the line pool. This allows Sets such as the Panther II Set (Basic Set) to access line pools.

3.05 The procedure for setting up LINE POOL KEYS (given in Table 3-1) can be performed on the following Sets:

- Panther 306 Sets - Lines 1, 2, and 3.
- Panther 612 Sets - Lines 1 to 6.
- Panther 1032, 2064 or Panther II Display Sets - Any key located on the designation card.
- Panther II Set - not applicable. (Line Pooling is available only by access code.)

Programming DSS/Speed Keys (Codes 910 to 973)

3.06 On Panther 306 and 612 Sets, the Direct Station Selection (DSS) keys can be individually programmmed to have any station appear on any key. For other Panther Sets (Panther 1032, 2064 and Display Sets), the programmable keys on each Set are preprogrammed as line keys. One or more line keys can be converted into DSS keys at each Set. To program DSS KEYS, refer to Table 3-1.

Note: Only one DSS key can be programmed as a particular station.

3.07 If Private Speed Call numbers and Common Speed Call numbers are stored using codes (00 - 10 and 20 - 99, respectively), codes 00 - 10 and 20 - 62 will correspond to a particular DSS Keys for One Touch Speed Dialing. Refer to the *Panther II User Guides* for more details on One Touch Speed Dialing.

Programming Feature Keys (Codes 050,057 to 061)

3.08 Any line/DSS key located above the fixed function keys on a Set (i.e., the line/DSS keys on a Set's designation card), can be programmed as a Feature key to perform special "one-touch" functions. The System Manager must set up Programmable FEATURE KEYS at each Set using the procedures given in Table 3-1.

Programming Unused Keys (Code 062)

3.09 Any unused line key or DSS key can be programmed so that when it is pressed, nothing happens. The System Manager can program unused keys by following the procedure given in Table 3-1.

Resetting Keys to their Default Values (Code 000)

3.10 Keys that have been programmed can be reset to their preprogrammed (default) setting by using the following procedure (e.g., if you have programmed the Line 1 key on a Set as a Night Pickup key, then wish to convert it to a Line 1 key again). Note that you can reprogram a key without having to reset it to its default setting first.

To reset keys to the default values:

- Press the PROGRAM Key (or dial * #), then dial **4**.
- Press the key you wish to reset.
- Dial **0 0 0**.
- Press * to exit Programming Mode.
- Repeat the procedure for each additional key you wish to reset.

The keys default to the line keys and DSS keys that are shown on the set's designation card in printed type.

TABLE 3-1 PROGRAMMABLE KEYS

With the Panther II System, keys on a Set can be programmed as line keys, line pool keys, DSS keys, or feature keys. To convert a key -

1. At the Set, press the PROGRAM key (or dial * #).
2. Dial the digit **4.**
3. Press the key that you wish to change.
4. Dial the appropriate code below -

001 - 020	= a specific line from 01 to 20.	(LINE KEYS)
051	= Line Pool 1	
052	= Line Pool 2	
053	= Line Pool 3	(LINE POOL KEYS)
054	= Line Pool 4	
050	= Saved Number Redial	
057	= Call Pickup - Local	
058	= Call Pickup - Remote	(FEATURE KEYS)
059	= Night Pickup	
060	= Do Not Disturb	
061	= Program	
062	= Unused Key	(UNUSED KEYS)
910 - 973	= a specific station from 10 to 73.	(DSS KEYS)

5. Press * to exit programming.

Now the key selected in Step 3, has been changed to the new function selected in Step 4.