

# ***Strata*** ***XII & XX***

**SYSTEM PROGRAMMING**

# Strata XII & XX

## SYSTEM PROGRAMMING

### TABLE OF CONTENTS

PARAGRAPH	SUBJECT	PAGE
	TABLE of CONTENTS.....	i
	ILLUSTRATION LIST.....	ii
01	INTRODUCTION.....	1
02	PROGRAMMING PROCEDURES.....	1
02.00	General.....	1
02.10	Programming CO 18~21.....	2
02.20	Multiple Station Programming.....	2
02.30	Preparation.....	2
02.40	System Options.....	3
02.50	CO Line Options.....	4
02.60	Station Options.....	5
	TABLE 1--SYSTEM RECORD SHEET.....	11
02.70	Initialization.....	22
	TABLE 2--CRDU POSITIONS.....	22
02.80	System Data Entry.....	23
	TABLE 3--INITIALIZED DATA.....	23
	TABLE LIST.....	25
03	SYSTEM DATA PRINTOUT.....	25
03.00	System Data Printout Via SMDR.....	25
	TABLE 4-SYSTEM DATA PRINTOUT SELECTION CODES.....	26
	TABLE 5-SPEED DIAL MEMORY PRINTOUT SELECTION CODES.....	27
	TABLE 6-PROGRAM 01--SYSTEM ASSIGNMENTS (BASIC).....	32
	TABLE 7-PROGRAM 02--SYSTEM ASSIGNMENTS (OPTIONS).....	33
	TABLE 8-PROGRAM 03--SYSTEM ASSIGNMENTS (OPTIONS).....	34
	TABLE 9-PROGRAM 04--MCOU OUTPUTTING SELECTION.....	35
	TABLE 10-PROGRAM 05--AUTOMATIC RECALL FROM HOLD TIMING.....	36
	TABLE 11-PROGRAM 06--AUTOMATIC RELEASE ON HOLD ENABLE.....	37
	TABLE 12-PROGRAM 07--AUTOMATIC RELEASE ON HOLD TIMING.....	38
	TABLE 13-PROGRAM 08--TENANT SERVICE SELECTION.....	39
	TABLE 14-PROGRAM 09--CO LINE "DIAL 9" GROUP SELECTION.....	40
	TABLE 15-PROGRAM 10--PBX BACK-UP.....	41
	TABLE 16-PROGRAM 1X--PBX ACCESS CODES.....	42
	TABLE 17-PROGRAM 20--TOLL RESTRICTION DISABLE.....	43
	TABLE 18-PROGRAM 2X--TOLL RESTRICTION EXCEPTION CODES.....	44
	TABLE 19-PROGRAM 3XX--STATION CO LINE ACCESS.....	45
	TABLE 20-PROGRAM 4XX--STATION TYPE & KEY ASSIGNMENT.....	46
	TABLE 21-PROGRAM 5XX--STATION CLASS OF SERVICE.....	47
	TABLE 22-PROGRAM 6XX--TOLL RESTRICTION CLASSIFICATION.....	48
	TABLE 23-PROGRAM 7XX--STATION OUTGOING RESTRICTION.....	49
	TABLE 24-PROGRAM 8XX--CO RINGING ASSIGNMENTS-DAY.....	50
	TABLE 25-PROGRAM 8#XX--CO RINGING ASSIGNMENTS-DAY 2.....	51
	TABLE 26-PROGRAM 9XX--CO RINGING ASSIGNMENTS-NITE.....	52

# ***Strata*** ***XII & XX***

## SYSTEM PROGRAMMING

### ILLUSTRATION LIST

FIGURE	TITLE	PAGE
1	Program 4XX—Flexible Key Assignments . . . . .	6
1A	Program 4XX—Flexible Key Assignments . . . . .	7
2	Printout Sample (Programs 01 ~ 09) . . . . .	28
3	Printout Sample (Programs 10 & 1X) . . . . .	28
4	Printout Sample (Programs 20 & 2X) . . . . .	28
5	Printout Sample (Program 3XX, Station 10 ~ 41) . . . . .	29
5A	Printout Sample (Program 3XX, Station 42 ~ 65) . . . . .	30
6	Printout Sample (Speed Dial-System) . . . . .	31

## 01 INTRODUCTION

**01.01** The data governing overall system operation and feature execution for the STRATA XII & XX systems is stored in read-only-memory (ROM) and cannot be altered in the field. However, the data controlling operation of the various options, both system and station, is stored in random-access-memory (RAM) and can easily be changed according to individual installation requirements.

**01.02** All STRATA options are controlled by selections made in the system data tables. An initialization process is provided for verifying predetermined system assignments. The installer can then proceed with any necessary changes.

**01.03** All system data changes are made via station 17 (as the input-output device), which must be equipped with a 20-key EKT. Whenever the system is placed in the programming mode, the keys on station 17 are used to enter data while its LEDs display the current data. While station 17 is in the programming mode, the remainder of the system may still be used in the usual fashion.

**01.04** Internal battery power is provided to prevent loss of system data memory in the event of a power failure.

**NOTE:**

*Whenever a system is installed or the MCAU/AMMU are changed, the system must be initialized. See Paragraph 02.70.*

## 02 PROGRAMMING PROCEDURES

### 02.00 General

**02.01** The STRATA system must be in the programming mode before system data can be verified or altered. With the exception of station 17, normal system functions are not suspended while in the programming mode.

**02.02** When the system is in the programming mode, station 17 is used to enter the system data in one of two ways:

**NOTE:**

*Station 17 must be equipped with a 20-key EKT, and all tables and procedures that follow assume station 17 has the "standard" key pattern (INT, CO 1~17, DND and MW/FL).*

- In the majority of programs (Type 1), the **INT** and **CO** keys are used to change "bits" of system data. The LEDs associated with the **INT** and **CO** keys show the status of that "bit" before and after key depression. A particular key and LED will have a different meaning, depending upon the program number being used.

- In Type 2 programs, the dial pad is used to enter data. In this case, the system, using the INT and selected CO LEDs, verifies the entered data by displaying the number in Binary format.

**02.03** The programming mode is activated by locking in the SET switch on the MCAU and then depressing the **SPKR** key on station 17. After the station has been activated, a program number is dialed on the station dial pad, and the system will respond as follows:

Type 1 programs:

Station 17 LEDs will display the existing data in these categories.

Type 2 programs:

CO 10 LED on station 17 will flash continuously. Actual data can be reviewed without alteration by multiple depressions of the **±** key.

**02.04** Data can be altered while it is being displayed. To input new data via station 17, perform the following:

Type 1 program:

The state of an LED is altered by depressing its associated key. Depressing the key while the LED is "on" will turn it off and vice-versa.

Type 2 program:

Data is entered via the dial pad. The LEDs will display the data and digit number in Binary format.

**02.05** Once the desired data is entered and displayed, it is written into memory by depressing the **HOLD** key on station 17.

- System and CO line options are written into temporary storage when the **HOLD** key is depressed. After all changes in these categories have been made, transfer the data into working memory per Paragraph 02.06.

**SYSTEM PROGRAMMING**  
**SECTION 100-020-300**  
**JUNE 1983**

- Station option data (with the exception of CO line access assignments) are written into the main data memory; therefore, all changes are effective immediately after the **HOLD** key is depressed. However, it is recommended that the data transfer procedures per Paragraph 02.06 be utilized for added programming protection.

**02.06** Data may be secured in working memory in one of two ways:

- 1) If the system is not in service, release the **SET** switch on the MCAU, and cycle (rock) the MPRU power switch off and on to transfer all data into the main data memory. Note, all calls are dropped when this occurs.
- 2) If the system is in service and no calls should be dropped, depress the following keys, in the order given here, on station 17: **SPKR** **#** **\***  
**9** **INT** **CO 1** **CO 4** **CO 5** **CO 8** **CO 9**  
**CO 12** **CO 13** **HOLD**. This code will secure the data in working memory without cancelling any calls. Release the **SET** switch on the MCAU.

**02.10 Programming CO 18~21**

**02.11** Some Type 1 programs use the CO key/LEDs to represent themselves. The EKT at station 17 has a maximum of 17 CO line keys in a STRATA XX system. In order to program CO 18~21, it is necessary to dial a **\*** after the first digit of the program number. CO key/LEDs 1~4 will then function as CO 18~21. For example:

For Program 04: Dial **0** **\*** **4**

For Program 7XX: Dial **7** **\*** **X** **X**

**02.20 Multiple Station Programming**

**02.21** Programs 3XX through 9XX are used to select options for individual stations (where XX represents the station number of the station being programmed). To save time, it is possible to program *all* stations simultaneously or in groups.

**02.22** Multiple station programming is accomplished by substituting a special group code for the *station number part of the program number (XX)*.

The codes are:

<b>0 0</b>	:	All stations
<b>0 1</b>	:	Stations 10~17
<b>0 2</b>	:	Stations 18~25
<b>C 3</b>	:	Stations 26~33
<b>0 4</b>	:	Stations 34~41
<b>0 5</b>	:	Stations 42~49
<b>0 8</b>	:	Stations 50~57
<b>0 7</b>	:	Stations 58~65

**02.23** When the multiple station group code is entered, the LEDs will display existing data as follows:

- Steady LED: Data is the same for all stations in dialed group.
- Flashing LED: Data is selected for at least one, but not all stations in that group.

**02.24** The state of an LED is altered by depressing its associated key. LEDs that are flashing can be cycled through three states (flashing, on, off) by multiple key depressions. Other LEDs will cycle between on and off states only. Select data as follows:

- LED on: Selects LED "ON" for all the stations in the group.
- LED off: Selects LED "OFF" for all the stations in the group.
- LED flash: No change to any station in the group.

**02.25** Once the proper data is selected, depress the **HOLD** key in the usual manner to write it into memory.

**02.30 Preparation**

**02.31** Before STRATA system data can be programmed, option selections must be made and then indicated on the System Record Sheet (shown in Table 1). The Record Sheet, one of which accompanies each MKSU, will then serve as a programming guide and installation record.

**02.32** Programming options are grouped according to the three categories listed below, with several program numbers associated with each category. A different program number is used for *each option or group of options being selected*.

a) System Options

- 01: System Assignments (Basic)
- 02: System Assignments (Options)
- 03: System Assignments (Options)
- 04: MCOU MF/DP Outpulsing Selection
- 05: Automatic Recall From Hold Timing

b) CO Line Options

- 06: Automatic Release On Hold (AROH) Enable
- 07: Automatic Release on Hold Timing
- 08: Tenant Service Selection
- 09: CO "Dial 9" Group Selection (OPX)
- 10: PBX Backup
- 1X: PBX Access Codes
- 20: Toll Restriction Disable
- 2X: Toll Restriction Exception Codes

c) Station Options

- 3XX: Station CO Line Access
- 4XX: Station Type and Flexible Key Assignment
- 5XX: Station Class of Service
- 6XX: Toll Restriction Classification
- 7XX: Station Outgoing Restriction
- 8XX: CO Ringing Assignments-Day
- 8#XX: CO Ringing Assignments-Day #2
- 9XX: CO Ringing Assignments-Nite

02.33 The System Record Sheet is used to record the assignment of each key/LED for any given program number. For Type 1 programs an "X" placed in the record indicates that the associated LED should be turned on (lit) during the programming process. For Type 2 programs the actual data is recorded.

02.34 After making the system option selections per the following instructions, record the various choices in the System Record Sheet. Use the tables at the end of this section for detailed programming instructions.

02.40 System Options:

01 Program—System Assignments (Basic)

Five options are selected with this program, using  INT ,  CO 2 ,  CO 3 ,  CO 4 and  CO 5 keys to change the status of their respective LEDs. For the options selected, mark an X as indicated.

- 1) Pause Timing (After Flash)—mark an X next to CO 5 if a 3-second pause (for dial tone

delay) is required after a FLASH. Leave blank if a 1.5 second pause is sufficient.

- 2) Pause After Flash—mark an X next to CO 4 if the system is to insert a pause (defined by CO 5, this program) between a FLASH and an automatically dialed number.

- 3) Pause Timing (PBX Access Code)—mark an X next to CO 3 if a 3-second pause (for dial tone delay) is required after a PBX CO access code is dialed by the Automatic Dialing feature. Leave blank if a 1.5-second pause is sufficient.

- 4) Flash Time—mark an X next to CO 2 if the line-open interval produced by the  MWFL key is to be 0.5 seconds for behind PBX operation. Leave blank if the 2.0-second pause for dial tone recall is required.

- 5) Tone First—mark an X next to INT if Tone First intercom signalling is required. Leave blank if Voice First signalling is required.

02 Program—System Assignments (Options)

Six options are selected with this program, using the  INT ,  CO 1 ,  CO 2 ,  CO 8 ,  CO 9 and  CO 10 keys to change the status of their respective LEDs. For the options selected, mark an X as indicated.

- 1) Station 24/25 OPX—mark an X next to CO 10 if MOPU #3 is equipped and *only* station 24 is to be used. (Has no meaning if MOPU #3 is not equipped.)

- 2) Station 22/23 OPX—mark an X next to CO 9 if MOPU #2 is equipped and *only* station 22 is to be used. (Has no meaning if MOPU #2 is not equipped.)

- 3) Station 20/21 OPX—mark an X next to CO 8 if MOPU #1 is equipped and *only* station 20 is to be used. (Has no meaning if MOPU #1 is not equipped.)

- 4) Nite Ring over External Page—mark an X next to CO 2 if Nite Ringing over External Page is required.

- 5) Background Music over External Page—mark an X next to CO 1 if BGM is to be heard over the External Page circuit.

**SYSTEM PROGRAMMING**  
**SECTION 100-020-300**  
**JUNE 1983**

- 6) External Page with All Call—mark an X next to INT if the External Page circuit is to be included in an All Call Page

**03 Program—System Assignments (Options)**

Nine options are selected with this program using  INT and  CO keys to change the status of their respective LEDs. For the options selected, mark an X as indicated.

- 1) Station 10 DND/NITE Key—mark an X next to CO 9 if the DND/NITE key on station 10 is to be a DND key. Leave blank if NITE is required.
- 2) Nite Ringing Modes—mark an X next to CO 8 if three ringing modes are used, leave blank if two ringing modes are required.
- 3) Tenant Service—mark an X next to CO 7 if system is to be equipped with Tenant Service.
- 4) Tone First—mark an X next to CO 6 if tone first signalling is to be used with the DSS.
- 5) Message Waiting Station 12—mark an X next to CO 4 if station 12 is to be the message waiting center.
- 6) Message Waiting Station 11—mark an X next to CO 3 if station 11 is to be the message waiting center.
- 7) Message Waiting Station 10—mark an X next to CO 2 if station 10 is to be the message waiting center.
- 8) DSS 2—mark an X next to CO 1 if the system is to be equipped with DSS 2.
- 9) DSS 1—mark an X next to INT if the system is to be equipped with DSS 1.

**NOTE:**

*Only one message center is permitted; if more than one station is chosen as a message waiting center, station 10 will have priority.*

**04 Program—MCOU MF/DP Outpulsing Selection**

Selects MF or rotary dial outpulsing using each third CO line key to represent its group of three lines.

- Mark an X next to the appropriate key that represents its group (for example: CO 1=CO 1, CO 2 and CO 3; CO 4=CO 4, CO 5, CO 6; etc.) if DP is required. Leave blank if MF is required.

**05 Program—Automatic Recall from Hold Timing**

Sets the timing for the Automatic Recall from Hold feature.

- 1) If recall is desired, select a time period of 16-160 seconds and mark an X next to the appropriate key in the System Record Sheet. The times are not accumulative—only one key can be selected.
- 2) If no recall is required, mark an X next to INT.

**02.50 CO Line Options:**

**06 Program—Automatic Release on Hold Enable**

Selects whether or not the Automatic Release on Hold (AROH) feature is to function on a given CO line; the CO line keys represent themselves.

- Mark an X next to each CO line that requires AROH.

**07 Program—Automatic Release on Hold Timing**

Selects Cross Bar (XB) or ESS timing for the AROH feature using each CO line key to represent itself.

- Mark an X next to each CO line that requires XB timing; leave blank if ESS timing is required.

**NOTE:**

*This selection will have no meaning if AROH was rejected in Program 06*

**08 Program—Tenant Service Selection**

Informs the system which CO lines are assigned to which tenant. Night ringing transfer of lines assigned to Tenants #1 and #2 will be controlled by DSS #1 (station 10) and DSS #2 (station 11), respectively. Only lines assigned to Tenant #1 will activate Nite Ringing over External Page. Each CO key represents itself.

- Mark an X next to each key that is to belong to the second tenant.

**NOTE:**

*This selection will have no meaning if Tenant Service was not selected in Program 03.*

**09 Program—CO "Dial 9" Group Selection**

Informs the system of the CO lines that should be considered for selection when an OPX dials "9". Each CO key represents itself.

- Mark an X next to each CO key that is to be included in the "Dial 9" group.

**10 Program—PBX Backup**

Informs the system if the CO line key is actually connected to a PBX station line. The system will recognize PBX access codes on selected line(s).

- Mark an X next to each CO line that is to be connected to a PBX station line.

**1X Program—PBX Access Codes**

Informs the system of the access codes used by the PBX that is connected to the lines selected in Program 10. STRATA will recognize the access codes and react appropriately for Toll Restriction, Automatic Dialing and Repeat Last Number Dialed.

- Enter the actual access codes (maximum: 8).

**NOTE:**

*If the access code is a single digit, enter "\*" in the second column. If all combinations following a particular 1st digit are to be considered access codes (e.g. 91, 92, 93, etc), enter "D" (do not care) in the second column.*

**20 Program—Toll Restriction Disable**

Selects whether or not the Toll Restriction feature is to function on a given CO line; the CO line keys represent themselves.

- Mark an X next to each CO line on which Toll Restriction is not to function.

**2X Program—Toll Restriction Exception Codes**

Informs the system of a maximum of five digit codes (area codes or office codes) that are allowed to be dialed by Toll Restricted stations.

- Enter the actual 4-digit codes (maximum: 5).

**NOTE:**

1. Stations allowed access to codes 1, 2 and 3 may dial up to seven digits following the 4-digit codes.
2. Stations allowed access to codes 4 and 5 may dial up to 29 digits (for MCI, SPRINT, etc.) following the 4-digit codes.

**02.60 Station Options:**

**3XX Program—Station CO Line Access**

The ability of an individual station to access any of the CO lines is determined by selections made using this program. A station denied access to a CO line by this program will have neither key nor LED functions for that CO line.

- Selections must be repeated for all stations—mark an X next to each CO line that is to be accessed by the station in question.

**4XX Program—Station Type and Flexible Key Assignment**

Informs the system of what type and style telephone (or DSS) is being used at each station, also provides for flexible CO line assignment. (See Figures 1 and 1A for the various key designation strips.)

a) 10 key EKT:

#5 Mark an X next to CO 17 if EKT is equipped with INT, CO 20~CO 14 (numbered in reverse order), DND, MW/FL.

#4 Mark an X next to CO 16 if EKT is equipped with INT, CO 14~CO 20, DND, MW/FL.

#3 Mark an X next to CO 15 if EKT is equipped with INT, CO 10~CO 16, DND, MW/FL.

#2 Mark an X next to CO 14 if EKT is equipped with INT, CO 6~CO 12, DND, MW/FL.

#1 Mark an X next to CO 13 if EKT is equipped with INT, CO 1~CO 7, DND, MW/FL.

b) 20-key EKT:

#13 Mark an X next to CO 12 if EKT is equipped



PROGRAM 4XX  
STATION TYPE and KEY ASSIGNMENT

Below are representative Designation Strips with their respective assignment numbers for both 10- and 20-key EKTs.

10-key EKT

20-key EKT

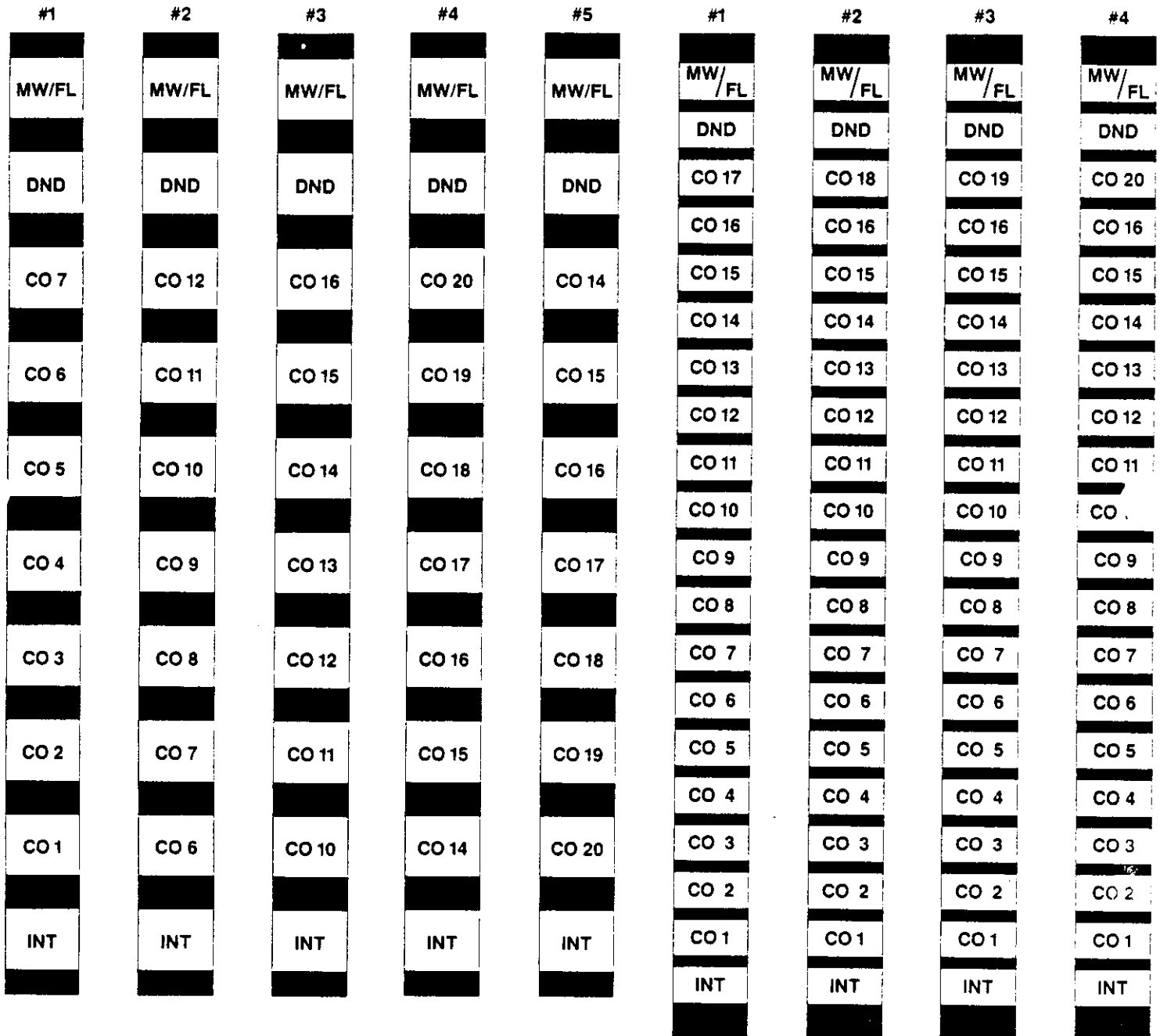


FIGURE 1

PROGRAM 4XX (continued)  
STATION TYPE and KEY ASSIGNMENT

Below are representative Designation Strips with their respective assignment numbers for the 20-key EKT.

20-key EKT

#5	#6	#7	#8	#9	#10	#11	#12	#13
MW/FL	MW/FL	MW/FL	CO 20	CO 1	MW/FL	MW/FL	MW/FL	MW/FL
DND	DND	DND	CO 19	CO 2	DND	DND	DND	DND
CO 21	CO 21	CO 4	CO 18	CO 3	REP	REP	AD 5	AD 5
CO 16	CO 20	CO 5	CO 17	CO 4	RDL	RDL	AD 4	AD 4
CO 15	CO 19	CO 6	CO 16	CO 5	AD 7	AD 7	AD 3	AD 3
CO 14	CO 18	CO 7	CO 15	CO 6	AD 6	AD 6	AD 2	AD 2
CO 13	CO 13	CO 8	CO 14	CO 7	AD 5	AD 5	AD 1	AD 1
CO 12	CO 12	CO 9	CO 13	CO 8	AD 4	AD 4	CO 12	CO 9
CO 11	CO 11	CO 10	CO 12	CO 9	AD 3	AD 3	CO 11	CO 10
CO 10	CO 10	CO 11	CO 11	CO 10	AD 2	AD 2	CO 10	CO 11
CO 9	CO 9	CO 12	CO 10	CO 11	AD 1	AD 1	CO 9	CO 12
CO 8	CO 8	CO 13	CO 9	CO 12	CO 8	CO 12	CO 8	CO 13
CO 7	CO 7	CO 14	CO 8	CO 13	CO 7	CO 11	CO 7	CO 14
CO 6	CO 6	CO 15	CO 7	CO 14	CO 6	CO 10	CO 6	CO 15
CO 5	CO 5	CO 16	CO 6	CO 15	CO 5	CO 9	CO 5	CO 16
CO 4	CO 4	CO 17	CO 5	CO 16	CO 4	CO 8	CO 4	CO 17
CO 3	CO 3	CO 18	CO 4	CO 17	CO 3	CO 7	CO 3	CO 18
CO 2	CO 2	CO 19	CO 3	CO 18	CO 2	CO 6	CO 2	CO 19
CO 1	CO 1	CO 20	CO 2	CO 19	CO 1	CO 5	CO 1	CO 20
INT	INT	INT	CO 1	CO 20	INT	INT	INT	INT

FIGURE 1A

**SYSTEM PROGRAMMING**  
**SECTION 100-020-300**  
**JUNE 1983**

with INT, CO 20~CO 9 (numbered in reverse order), AD 1~AD 5, DND, MW/FL.

#12 Mark an X next to CO 11 if EKT is equipped with INT, CO 1~CO 12, AD 1~AD 5, DND, MW/FL.

#11 Mark an X next to CO 10 if EKT is equipped with INT, CO 5~CO 12, AD 1~AD 7, RDL, REP, DND, MW/FL.

#10 Mark an X next to CO 9 if EKT is equipped with INT, CO 1~CO 8, AD 1~AD 7, RDL, REP, DND, MW/FL.

#9 Mark an X next to CO 8 if EKT is an attendant station (accompanies DSS console) and is equipped with CO 20~CO 1 (numbered in reverse order).

#8 Mark an X next to CO 7 if EKT is an attendant station (accompanies DSS console) and is equipped with CO 1~CO 20.

#7 Mark an X next to CO 6 if EKT is equipped with INT, CO 20~CO 4 (numbered in reverse order), DND, MW/FL.

#6 Mark an X next to CO 5 if EKT is equipped with INT, CO 1~CO 13 plus CO 18~CO 21, DND, MW/FL.

#5 Mark an X next to CO 4 if EKT is equipped with INT, CO 1~CO 16 plus CO 21, DND, MW/FL.

#4 Mark an X next to CO 3 if EKT is equipped with INT, CO 1~CO 16 plus CO 20, DND, MW/FL.

#3 Mark an X next to CO 2 if EKT is equipped with INT, CO 1~CO 16 plus CO 19, DND, MW/FL.

#2 Mark an X next to CO 1 if EKT is equipped with INT, CO 1~CO 16 plus CO 18, DND, MW/FL.

#1 Mark an X next to INT if EKT is equipped with INT, CO 1~CO 17, DND, MW/FL.

**5XX Program—Station Class of Service**

Ten options are selected with this program, using  INT and  CO keys to change the status of

their respective LEDs. The selections listed below must be repeated for each station. In all cases, mark an X where indicated.

1) Privacy Override—mark an X next to CO 17 if the station is **allowed** the Privacy Override feature.

**NOTE:**

*A maximum of two stations are permitted to use the Privacy Override feature. If more than two are programmed, only the two lowest numbered stations will be allowed to use this feature and the others will be ignored.*

2) DND override—mark an X next to CO 16 if the station is **allowed** the DND Override feature.

3) Group Page D—mark an X next to CO 7 if the station is to be included in Group Page D.

4) Group Page C—mark an X next to CO 6 if the station is to be included in Group Page C.

5) Group Page B—mark an X next to CO 5 if the station is to be included in Group Page B.

6) Group Page A—mark an X next to CO 4 if the station is to be included in Group Page A.

7) Speakerphone—mark an X next to CO 3 if the station is **allowed** to use the Speakerphone feature.

8) Automatic Dialing—mark an X next to CO 2 if the station is **allowed** the Automatic Dialing feature.

9) Automatic Line Preference—mark an X next to CO 1 if the station is **allowed** the Automatic Line Preference feature.

10) All Call—mark an X next to INT if the station is included in an All Call page.

**6XX Program—Toll Restriction Classification**

Defines type of Toll Restriction that will be functional on individual stations. Selections must

be made for each station:

- 1) Mark an X next to CO 13 if the station will be allowed to dial the #5 4-digit exception code.
  - 2) Mark an X next to CO 12 if the station will be allowed to dial the #4 4-digit exception code.
  - 3) Mark an X next to CO 11 if the station will be allowed to dial the #3 4-digit exception code.
  - 4) Mark an X next to CO 10 if the station will be allowed to dial the #2 4-digit exception code.
  - 5) Mark an X next to CO 9 if the station will be allowed to dial the #1 4-digit exception code.
  - 6) Mark an X next to CO 8 if the station will be allowed to dial 411.
  - 7) Mark an X next to CO 7 if the station will be allowed to dial 911.
  - 8) Mark an X next to CO 6 if the station will be allowed to dial 800.
- NOTE:*  
*A maximum of eleven digits are allowed if 411, 911, 800 or Exception Code #1, 2 or 3 was dialed first. A maximum of 29 digits are allowed if Exception Code 4 or 5 was dialed first.*
- 9) Mark an X next to CO 5 if the station will be restricted from dialing 0 as the first number.
  - 10) Mark an X next to CO 4 if the station will be restricted from dialing 0 as the second number.
  - 11) Mark an X next to CO 3 if the station will be restricted from dialing 1 as the first number.
  - 12) Mark an X next to CO 2 if the station will be restricted from dialing 1 as the second number.
  - 13) Mark an X next to CO 1 if the station will be allowed to dial 1 + 7-digit number.
  - 4) Mark an X next to INT if the station will be restricted to dialing 7-digit numbers.

*NOTES:*

1. *If "Allow 1 + 7 digits" and "Restrict 1 as 1st digit" LEDs are on, Program 6XX will restrict 1 as the first digit and will not allow 1 + 7 digits to be outpulsed.*
2. *If "Allow 1 + 7 digits" and "Allow 7 digits" LEDs are on, Program 6XX will allow 1 + 7 digits or any 7-digit number.*
3. *If "Allow 800" and "Restrict 0 as 2nd digit" LEDs are on, Program 6XX will allow 800 to be outpulsed, but will restrict any other number that has 0 as the second digit.*

### 7XX Program—Station Outgoing Restriction

Restricts a station from outgoing access to any number of CO lines while leaving it free to answer these lines when they are ringing or on hold.

- Selections must be made for each station—mark an X next to the CO line that is to have restricted access by the station in question.

### 8XX Program—CO Ringing Assignments-Day

Selects which CO lines will ring at a given station when the system is in the "DAY" mode.

- Selections must be made for each station—mark an X next to each CO line that is to ring at the station in question.

*NOTE:*

*Each line can ring on only eight stations. If more than eight are programmed, only the eight stations with the lowest station numbers will ring.*

### 8#XX Program—CO Ringing Assignments-Day 2

Selects which CO lines will ring at a given station when the system is in the "DAY 2" mode. This program is applicable only when the three ring mode option was selected in Program 03.

- Selections must be made for each station—mark an X next to each CO line that is to ring at the station in question.

**SYSTEM PROGRAMMING**  
**SECTION 100-020-300**  
**JUNE 1983**

*NOTE:*

*Each line can ring on only eight stations.  
If more than eight are programmed, only  
the eight stations with the lowest station  
numbers will ring.*

**9XX Program—CO Ringing Assignment-Night**

Selects which CO line will ring at a given station when the system is in the "NITE" mode.

- Selections must be made for each station—mark an X next to each CO line that is to ring at the station in question.

*NOTE:*

*Each line can ring on only eight stations.  
If more than eight are programmed, only  
the eight stations with the lowest station  
numbers will ring.*

---

**NOTES:**

## SYSTEM RECORD SHEET

### PROGRAM 01-SYSTEM ASSIGNMENTS (BASIC)

KEY/LED	LED ON	LED OFF
CO 5	3-sec. Pause After Flash	1.5-sec. Pause
CO 4	Insert Pause After Flash	No Pause
CO 3	3-sec. Pause After PBX Access Code	1.5-sec. Pause
CO 2	0.5-sec. Flash	2-sec. Flash
CO 1	---	---
INT	Tone First	Voice First

X=Select (LED on) Initialized Data: All LEDS off

**NOTE:**

*If any key/LED is not shown, it is not used.*

### PROGRAM 02-SYSTEM ASSIGNMENTS (OPTIONS)

KEY/LED	LED ON	LED OFF
CO 10	Sta. 24 is OPX	Sta. 24 & 25 are OPX
CO 9	Sta. 22 is OPX	Sta. 22 & 23 are OPX
CO 8	Sta. 20 is OPX	Sta. 20 & 21 are OPX
CO 2	Nite Ring/Ext. Page	Not Equipped
CO 1	BGM/Ext. Page	Not Equipped
INT	Ext. Page W/All Call	Ext. Page Not Included

X=Select (LED on) Initialized Data: All LEDS off

**NOTE:**

*If any key/LED is not shown, it is not used.*

### PROGRAM 03-SYSTEM ASSIGNMENTS (OPTIONS)

KEY/LED	LED ON	LED OFF
CO 9	Sta. 10 DND key	Sta. 10 Nite key
CO 8	Three Ring Modes	Two Ring Modes
CO 7	Tenant Service§	Non-tenant
CO 6	Tone First (DSS)	Voice First (DSS)
CO 5	---	---
CO 4	M.W. Sta. 12*	Not Equipped
CO 3	M.W. Sta. 11*	Not Equipped
CO 2	M.W. Sta. 10*	Not Equipped
CO 1	DSS #2	Not Equipped
INT	DSS #1	Not Equipped

\*Message Waiting Center

Initialized Data: INT & CO 2 LEDS on; all other LEDS off

§Tenant Service with DSS consoles 1 & 2

**NOTE:**

*Only one message center is permitted; Station 10 will have priority over any other extension chosen. If any key/LED is not shown, it is not used.*

**SYSTEM PROGRAMMING**  
**SECTION 100-020-300**  
**JUNE 1983**

**PROGRAM 04-MCOU OUTPUTSING SELECTION**

KEY/LED	LED ON	LED OFF
CO 19	CO 19-21 have DP	CO 19-21 have MF
CO 16	CO 16-18 have DP	CO 16-18 have MF
CO 13	CO 13-15 have DP	CO 13-15 have MF
CO 10	CO 10-12 have DP	CO 10-12 have MF
CO 7	CO 7-9 have DP	CO 7-9 have MF
CO 4	CO 4-6 have DP	CO 4-6 have MF
CO 1	CO 1-3 have DP	CO 1-3 have MF

Initialized Data: All LEDs off

**NOTE:**

*If any key/LED is not shown, it is not used.*

**PROGRAM 05-AUTOMATIC RECALL FROM HOLD TIMING**

KEY/LED	TIME
CO 7	160 Seconds
CO 6	128 Seconds
CO 5	96 Seconds
CO 4	64 Seconds
CO 3	48 Seconds
CO 2	32 Seconds
CO 1	16 Seconds
INT	No Recall

X=Select (LED on)  
 Initialized Data: CO 2 LED on

**PROGRAM 06  
 AUTO RELEASE  
 ON HOLD ENABLE**

CO 21	
CO 20	
CO 19	
CO 18	
CO 17	
CO 16	
CO 15	
CO 14	
CO 13	
CO 12	
CO 11	
CO 10	
CO 9	
CO 8	
CO 7	
CO 6	
CO 5	
CO 4	
CO 3	
CO 2	
CO 1	

X=enable (LED on)  
 Initialized Data:  
 All LEDs off

**PROGRAM 07  
 AUTO RELEASE  
 ON HOLD TIMING**

CO 21	
CO 20	
CO 19	
CO 18	
CO 17	
CO 16	
CO 15	
CO 14	
CO 13	
CO 12	
CO 11	
CO 10	
CO 9	
CO 8	
CO 7	
CO 6	
CO 5	
CO 4	
CO 3	
CO 2	
CO 1	

X=XB (LED on)  
 Blank=ESS  
 Initialized Data:  
 All LEDs off

**PROGRAM 08  
 TENANT SERVICE  
 SELECTION**

CO 21	
CO 20	
CO 19	
CO 18	
CO 17	
CO 16	
CO 15	
CO 14	
CO 13	
CO 12	
CO 11	
CO 10	
CO 9	
CO 8	
CO 7	
CO 6	
CO 5	
CO 4	
CO 3	
CO 2	
CO 1	

X=Belongs to 2nd tenant  
 Blank=Belongs to 1st tenant  
 Init Data: All LEDs off

PROGRAM 09  
CO LINE "DIAL 9" GROUP SELECTION (OPX)

CO 12	
CO 11	
CO 10	
CO 9	
CO 8	
CO 7	
CO 6	
CO 5	
CO 4	
CO 3	
CO 2	
CO 1	

CO 21	
CO 20	
CO 19	
CO 18	
CO 17	
CO 16	
CO 15	
CO 14	
CO 13	

X=Include in "Dial 9" group (LED on)  
Init. Data: All LEDs on

PROGRAM 10-PBX BACKUP

CO 12	
CO 11	
CO 10	
CO 9	
CO 8	
CO 7	
CO 6	
CO 5	
CO 4	
CO 3	
CO 2	
CO 1	

CO 21	
CO 20	
CO 19	
CO 18	
CO 17	
CO 16	
CO 15	
CO 14	
CO 13	

X=Connected to PBX Line (LED on)  
Init. Data: All LEDs off

PROGRAM 1X-PBX ACCESS CODES

Code	1st Digit	2nd Digit
#1 (11)		
#2 (12)		
#3 (13)		
#4 (14)		
#5 (15)		
#6 (16)		
#7 (17)		
#8 (18)		

Enter Access Codes (Max: 8)  
Initialized Data: None

NOTE:  
If the access code is a single digit, enter "\*\*\*" in the second column. If all combinations following a particular 1st digit are to be considered access codes (e.g., 91, 92, 93, etc), enter "D" (don't care) in the 2nd column.

PROGRAM 2X

PROGRAM 20  
TOLL RESTRICTION DISABLE

CO 12	
CO 11	
CO 10	
CO 9	
CO 8	
CO 7	
CO 6	
CO 5	
CO 4	
CO 3	
CO 2	
CO 1	

CO 21	
CO 20	
CO 19	
CO 18	
CO 17	
CO 16	
CO 15	
CO 14	
CO 13	

X=disable (LED on)  
Init. Data: All LEDs off

PROGRAM 2X  
TOLL RESTRICTION EXCEPTION CODES

Code	Digits			
	1st	2nd	3rd	4th
#1 (21)				
#2 (22)				
#3 (23)				
#4 (24)				
#5 (25)				

Enter Actual Exception Codes (Max: 5)  
Initialized Data: None

NOTE:  
If codes are less than four digits, enter "\*\*\*" in the remaining spaces.



PROGRAM 3XX-STATION CO LINE ACCESS

KEY/LED	Feature	Station Number																																							
		10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41								
CO 21	Allow																																								
CO 20	Allow																																								
CO 19	Allow																																								
CO 18	Allow																																								
CO 17	Allow																																								
CO 16	Allow																																								
CO 15	Allow																																								
CO 14	Allow																																								
CO 13	Allow																																								
CO 12	Allow																																								
CO 11	Allow																																								
CO 10	Allow																																								
CO 9	Allow																																								
CO 8	Allow																																								
CO 7	Allow																																								
CO 6	Allow																																								
CO 5	Allow																																								
CO 4	Allow																																								
CO 3	Allow																																								
CO 2	Allow																																								
CO 1	Allow																																								

KEY/LED	Feature	Station Number																																						
		42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65															
CO 21	Allow																																							
CO 20	Allow																																							
CO 19	Allow																																							
CO 18	Allow																																							
CO 17	Allow																																							
CO 16	Allow																																							
CO 15	Allow																																							
CO 14	Allow																																							
CO 13	Allow																																							
CO 12	Allow																																							
CO 11	Allow																																							
CO 10	Allow																																							
CO 9	Allow																																							
CO 8	Allow																																							
CO 7	Allow																																							
CO 6	Allow																																							
CO 5	Allow																																							
CO 4	Allow																																							
CO 3	Allow																																							
CO 2	Allow																																							
CO 1	Allow																																							

X=select (LED on) Initialized Data: All LEDs on

PROGRAM 4XX-STATION TYPE & FLEXIBLE KEY ASSIGNMENT

KEY/LED	Feature	Station Number																																							
		10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41								
CO 17	10-key #5																																								
CO 16	10-key #4																																								
CO 15	10-key #3																																								
CO 14	10-key #2																																								
CO 13	10-key #1																																								
CO 12	20-key #13																																								
CO 11	20-key #12																																								
CO 10	20-key #11																																								
CO 9	20-key #10																																								
CO 8	20-key #9																																								
CO 7	20-key #8																																								
CO 6	20-key #7																																								
CO 5	20-key #6																																								
CO 4	20-key #5																																								
CO 3	20-key #4																																								
CO 2	20-key #3																																								
CO 1	20-key #2																																								
INT	20-key #1																																								

KEY/LED	Feature	Station Number																								
		42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	
CO 17	10-key #5																									
CO 16	10-key #4																									
CO 15	10-key #3																									
CO 14	10-key #2																									
CO 13	10-key #1																									
CO 12	20-key #13																									
CO 11	20-key #12																									
CO 10	20-key #11																									
CO 9	20-key #10																									
CO 8	20-key #9																									
CO 7	20-key #8																									
CO 6	20-key #7																									
CO 5	20-key #6																									
CO 4	20-key #5																									
CO 3	20-key #4																									
CO 2	20-key #3																									
CO 1	20-key #2																									
INT	20-key #1																									

X=select (LED on). Initialized Data: INT LED on; all others off

NOTE:

- 1) Select only one type of EKT per station.
- 2) If the system is equipped with a DSS, 20-key #8 type is selected automatically.

PROGRAM 5XX-STATION CLASS OF SERVICE

KEY/LED	Feature	Station Number																																							
		10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41								
CO 17	Privacy Override Allowed																																								
CO 16	DND Override Allowed																																								
CO 7	Group Page D																																								
CO 6	Group Page C																																								
CO 5	Group Page B																																								
CO 4	Group Page A																																								
CO 3	Speakerphone Enable																																								
CO 2	Automatic Dialing																																								
CO 1	Auto Line Preference																																								
INT	Include in All Call																																								

KEY/LED	Feature	Station Number																																																
		42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65																									
CO 17	Privacy Override Allowed																																																	
CO 16	DND Override Allowed																																																	
CO 7	Group Page D																																																	
CO 6	Group Page C																																																	
CO 5	Group Page B																																																	
CO 4	Group Page A																																																	
CO 3	Speakerphone Enable																																																	
CO 2	Automatic Dialing																																																	
CO 1	Auto Line Preference																																																	
INT	Include in All Call																																																	

X=select (LED on) Initialized Data: CO 1, 2, 3 and INT LED on; all others off

PROGRAM 6XX-TOLL RESTRICTION CLASSIFICATION

KEY/LED	Classification	Station Number																																													
		10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41														
CO 13	Allow Exception Code #5*																																														
CO 12	Allow Exception Code #4*																																														
CO 11	Allow Exception Code #3**																																														
CO 10	Allow Exception Code #2**																																														
CO 9	Allow Exception Code #1**																																														
CO 8	Allow 411**																																														
CO 7	Allow 911**																																														
CO 6	Allow 800**																																														
CO 5	Restrict 0 as 1st digit																																														
CO 4	Restrict 0 as 2nd digit																																														
CO 3	Restrict 1 as 1st digit																																														
CO 2	Restrict 1 as 2nd digit																																														
CO 1	Allow 1 + 7 digits																																														
INT	Allow 7 digits																																														

KEY/LED	Classification	Station Number																																																	
		42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65																										
CO 13	Allow Exception Code #5*																																																		
CO 12	Allow Exception Code #4*																																																		
CO 11	Allow Exception Code #3**																																																		
CO 10	Allow Exception Code #2**																																																		
CO 9	Allow Exception Code #1**																																																		
CO 8	Allow 411**																																																		
CO 7	Allow 911**																																																		
CO 6	Allow 800**																																																		
CO 5	Restrict 0 as 1st digit																																																		
CO 4	Restrict 0 as 2nd digit																																																		
CO 3	Restrict 1 as 1st digit																																																		
CO 2	Restrict 1 as 2nd digit																																																		
CO 1	Allow 1 + 7 digits																																																		
INT	Allow 7 digits																																																		

X=Select (LED on) initialized Data: No restrictions

\*29 digits maximum allowed

\*\*11 digits maximum allowed

**NOTE:**

See Program 6XX explanation for order of preference.

PROGRAM 7XX-STATION OUTGOING RESTRICTION

KEY/LED	Feature	Station Number																																							
		10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41								
CO 21	Restricted																																								
CO 20	Restricted																																								
CO 19	Restricted																																								
CO 18	Restricted																																								
CO 17	Restricted																																								
CO 16	Restricted																																								
CO 15	Restricted																																								
CO 14	Restricted																																								
CO 13	Restricted																																								
CO 12	Restricted																																								
CO 11	Restricted																																								
CO 10	Restricted																																								
CO 9	Restricted																																								
CO 8	Restricted																																								
CO 7	Restricted																																								
CO 6	Restricted																																								
CO 5	Restricted																																								
CO 4	Restricted																																								
CO 3	Restricted																																								
CO 2	Restricted																																								
CO 1	Restricted																																								

KEY/LED	Feature	Station Number																							
		42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65
CO 21	Restricted																								
CO 20	Restricted																								
CO 19	Restricted																								
CO 18	Restricted																								
CO 17	Restricted																								
CO 16	Restricted																								
CO 15	Restricted																								
CO 14	Restricted																								
CO 13	Restricted																								
CO 12	Restricted																								
CO 11	Restricted																								
CO 10	Restricted																								
CO 9	Restricted																								
CO 8	Restricted																								
CO 7	Restricted																								
CO 6	Restricted																								
CO 5	Restricted																								
CO 4	Restricted																								
CO 3	Restricted																								
CO 2	Restricted																								
CO 1	Restricted																								

X=select (LED on) Initialized Data: All LEDs off

PROGRAM 8XX-CO RINGING ASSIGNMENTS-DAY

KEY/LED	Feature	Station Number																																							
		10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41								
CO 21	Ring in Day																																								
CO 20	Ring in Day																																								
CO 19	Ring in Day																																								
CO 18	Ring in Day																																								
CO 17	Ring in Day																																								
CO 16	Ring in Day																																								
CO 15	Ring in Day																																								
CO 14	Ring in Day																																								
CO 13	Ring in Day																																								
CO 12	Ring in Day																																								
CO 11	Ring in Day																																								
CO 10	Ring in Day																																								
CO 9	Ring in Day																																								
CO 8	Ring in Day																																								
CO 7	Ring in Day																																								
CO 6	Ring in Day																																								
CO 5	Ring in Day																																								
CO 4	Ring in Day																																								
CO 3	Ring in Day																																								
CO 2	Ring in Day																																								
CO 1	Ring in Day																																								

KEY/LED	Feature	Station Number																							
		42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65
CO 21	Ring in Day																								
CO 20	Ring in Day																								
CO 19	Ring in Day																								
CO 18	Ring in Day																								
CO 17	Ring in Day																								
CO 16	Ring in Day																								
CO 15	Ring in Day																								
CO 14	Ring in Day																								
CO 13	Ring in Day																								
CO 12	Ring in Day																								
CO 11	Ring in Day																								
CO 10	Ring in Day																								
CO 9	Ring in Day																								
CO 8	Ring in Day																								
CO 7	Ring in Day																								
CO 6	Ring in Day																								
CO 5	Ring in Day																								
CO 4	Ring in Day																								
CO 3	Ring in Day																								
CO 2	Ring in Day																								
CO 1	Ring in Day																								

X=select (LED on) Initialized Data: Station 10. all LEDs on; all other LEDs off

**NOTE:**

Each line can ring on only eight stations. If more than eight are programmed, only the eight stations with the lowest station numbers will ring.

PROGRAM 8#XX-CO RINGING ASSIGNMENTS-DAY 2

KEY/LED	Feature	Station Number																																							
		10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41								
CO 21	Ring in Day 2																																								
CO 20	Ring in Day 2																																								
CO 19	Ring in Day 2																																								
CO 18	Ring in Day 2																																								
CO 17	Ring in Day 2																																								
CO 16	Ring in Day 2																																								
CO 15	Ring in Day 2																																								
CO 14	Ring in Day 2																																								
CO 13	Ring in Day 2																																								
CO 12	Ring in Day 2																																								
CO 11	Ring in Day 2																																								
CO 10	Ring in Day 2																																								
CO 9	Ring in Day 2																																								
CO 8	Ring in Day 2																																								
CO 7	Ring in Day 2																																								
CO 6	Ring in Day 2																																								
CO 5	Ring in Day 2																																								
CO 4	Ring in Day 2																																								
CO 3	Ring in Day 2																																								
CO 2	Ring in Day 2																																								
CO 1	Ring in Day 2																																								

KEY/LED	Feature	Station Number																																						
		42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65															
CO 21	Ring in Day 2																																							
CO 20	Ring in Day 2																																							
CO 19	Ring in Day 2																																							
CO 18	Ring in Day 2																																							
CO 17	Ring in Day 2																																							
CO 16	Ring in Day 2																																							
CO 15	Ring in Day 2																																							
CO 14	Ring in Day 2																																							
CO 13	Ring in Day 2																																							
CO 12	Ring in Day 2																																							
CO 11	Ring in Day 2																																							
CO 10	Ring in Day 2																																							
CO 9	Ring in Day 2																																							
CO 8	Ring in Day 2																																							
CO 7	Ring in Day 2																																							
CO 6	Ring in Day 2																																							
CO 5	Ring in Day 2																																							
CO 4	Ring in Day 2																																							
CO 3	Ring in Day 2																																							
CO 2	Ring in Day 2																																							
CO 1	Ring in Day 2																																							

X=select (LED on) Initialized Data: All LEDs off

**NOTE:**

Each line can ring on only eight stations. If more than eight are programmed, only the eight stations with the lowest station numbers will ring.

PROGRAM 9XX-CO RINGING ASSIGNMENTS-NITE

KEY/LED	Feature	Station Number																																							
		10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41								
CO 21	Ring in Nite																																								
CO 20	Ring in Nite																																								
CO 19	Ring in Nite																																								
CO 18	Ring in Nite																																								
CO 17	Ring in Nite																																								
CO 16	Ring in Nite																																								
CO 15	Ring in Nite																																								
CO 14	Ring in Nite																																								
CO 13	Ring in Nite																																								
CO 12	Ring in Nite																																								
CO 11	Ring in Nite																																								
CO 10	Ring in Nite																																								
CO 9	Ring in Nite																																								
CO 8	Ring in Nite																																								
CO 7	Ring in Nite																																								
CO 6	Ring in Nite																																								
CO 5	Ring in Nite																																								
CO 4	Ring in Nite																																								
CO 3	Ring in Nite																																								
CO 2	Ring in Nite																																								
CO 1	Ring in Nite																																								

KEY/LED	Feature	Station Number																																						
		42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65															
CO 21	Ring in Nite																																							
CO 20	Ring in Nite																																							
CO 19	Ring in Nite																																							
CO 18	Ring in Nite																																							
CO 17	Ring in Nite																																							
CO 16	Ring in Nite																																							
CO 15	Ring in Nite																																							
CO 14	Ring in Nite																																							
CO 13	Ring in Nite																																							
CO 12	Ring in Nite																																							
CO 11	Ring in Nite																																							
CO 10	Ring in Nite																																							
CO 9	Ring in Nite																																							
CO 8	Ring in Nite																																							
CO 7	Ring in Nite																																							
CO 6	Ring in Nite																																							
CO 5	Ring in Nite																																							
CO 4	Ring in Nite																																							
CO 3	Ring in Nite																																							
CO 2	Ring in Nite																																							
CO 1	Ring in Nite																																							

X=select (LED on) Initialized Data: Station 11, all LEDs on, all other LEDs off

**NOTE:**  
Each line can ring on only eight stations. If more than eight are programmed, only the eight stations with the lowest station numbers will ring.



**SYSTEM PROGRAMMING**  
**SECTION 100-020-300**  
**JUNE 1983**

**02.70 Initialization**

**02.71** STRATA has a list of standard system data assignments stored in ROM that can be entered anytime by initializing the system. The system must be initialized when it is first installed or whenever the MCAU is changed. This will allow the system to be tested and any faults to be corrected before time is spent on programming. Standard data assignments are listed in Table 3.

**02.72** To initialize the STRATA system:

- a) Make sure the power switch on the MPRU PCB is in the ON position.
- b) Verify that the battery is connected on the AMMU (and CRDUs if equipped) to ensure that data entered after the system is initialized will not be lost due to power failure. The MCAU SET LED will not function if the battery on the AMMU is not connected.
- c) Depress the INT switch on the MCAU, and hold it in.
- d) Depress the SET switch and allow it to lock.
- e) Depress and release the SET switch again.
- f) Release the INT switch.
- g) Cycle the MPRU power switch OFF and ON.

**02.73** The Automatic Dialing memory will

contain random numbers when the system is powered up initially. Therefore, it is necessary to clear the memory to prevent meaningless numbers from being dialed.

**02.74** The Automatic Dialing features occupy the same basic system memory and up to three optional modules (see Table 2 for the possible CRDU locations). It is necessary to clear the basic system memory and, if applicable, the optional modules individually as follows:

- a) Lock in the SET switch on the MCAU—the MCAU LED and the MW/FL LED on station 17 will go on.
- b) Depress the **SPKR** key on station 17—SPKR LED will light steadily.
- c) Dial **☐ ☐ \* ☐** on dial pad—the SPKR LED will flash continuously.
- d) Depress the following keys: **INT** **CO 4** **CO 8** **CO 12**—the corresponding LEDs will light steadily.
- e) Depress the **HOLD** key—all station 17 LEDs (except MW/FL) will go off.
- f) Release the SET switch on the MCAU—the MCAU LED and the MW/FL LED on station 17 will go off.

**02.75** To clear first optional Automatic Dialing memory (CRDU on MCBU #1):

**TABLE 2**  
**CRDU POSITIONS**

	None	MCBU #1	MDSU	MCBU #1 MDSU	MCBU #2	MCBU #1 MCBU #2	MCBU #1 MCBU #2 MDSU
System List	24 (60~83)	40 (60~99)	24 (60~83)	40 (60~99)	24 (60~83)	40 (60~99)	40 (60~99)
Stations 10~46*	—	20 (10~29)	20 (30~49)	40 (10~49)	—	20 (10~29)	40 (10~49)
Stations 47~65	—	—	—	—	40 (10~49)	40 (10~49)	40 (10~49)

\*Stations 10~41 for STRATA XII.

**NOTE:**

The quantity of Automatic Dialing numbers (STRATA XII & XX) provided the system and stations by the available options are listed in Table 2. A CRDU is equipped on each PCB mentioned and the respective address codes are indicated in parenthesis.

- a) Lock in the SET switch on the MCAU—the MCAU LED and the MW/FL LED on station 17 will go on.
- b) Depress the **SPKR** key on station 17—SPKR LED will light steadily.
- c) Dial **# \* 1** on the dial pad—SPKR LED will flash continuously.
- d) Depress the following keys: **CO 1** **CO 5** **CO 9** **CO 13**—the corresponding LEDs will light steadily.
- e) Depress the **HOLD** key—all station 17 LEDs (except MW/FL) will go off.
- f) Release the SET switch on the MCAU—the MCAU LED and the MW/FL LED on station 17 will go off.

**02.76** To clear second optional Automatic Dialing memory (CRDU on MDSU):

- a) Lock in the SET switch on the MCAU—the MCAU LED and the MW/FL LED on station 17 will go on.
- b) Depress the **SPKR** key on station 17—SPKR LED will light steadily.
- c) Dial **# \* 2** on the dial pad—SPKR LED will flash continuously.
- d) Depress the following keys: **CO 2** **CO 6** **CO 10** **CO 14**—the corresponding LEDs will light steadily.
- e) Depress the **HOLD** key—all station 17 LEDs (except MW/FL) will go off.
- f) Release the SET switch on the MCAU—the MCAU LED and the MW/FL LED on station 17 will go off.

**02.77** To clear third optional Automatic Dialing memory (CRDU on MCBU #2):

- a) Lock in the SET switch on the MCAU—the MCAU LED and the MW/FL LED on station 17 will go on.
- b) Depress the **SPKR** key on station 17—SPKR LED will light steadily.

- c) Dial **# \* 3** on the dial pad—SPKR LED will flash continuously.
- d) Depress the following keys: **CO 3** **CO 7** **CO 11** **CO 15**—the corresponding LEDs will light steadily.
- e) Depress the **HOLD** key—all station 17 LEDs (except MW/FL) will go off.
- f) Release the SET switch on the MCAU—the MCAU LED and the MW/FL LED on station 17 will go off.

**02.80 System Data Entry**

**02.81** System Data is entered via station 17 while the system is in the "Programming Mode".

**02.82** The system is placed in the Programming Mode by locking in the SET switch on the MCAU. The MCAU LED and MW/FL LED on station 17 will light while the system is in the programming mode.

**02.83** Once the system is in the programming mode, refer to the System Record Sheet for the changes that must be made and select the required program number. Refer to the proper table for detailed instructions for using each different program. Each program should be accomplished sequentially until all necessary changes are made.

**TABLE 3**

**INITIALIZED DATA**

**SYSTEM OPTIONS**

System Assignments (Basic): 01 Program  
 Pause Timing After Flash = 1.5-seconds  
 Pause After Flash = None  
 Pause Timing After PBX Access Code = 1.5-seconds  
 Flash Key Timing = 2 seconds  
 Intercom Signalling = Voice first

System Assignments (Options): 02 Program  
 Stations 24 & 25 are OPX  
 Stations 22 & 23 are OPX  
 Stations 20 & 21 are OPX  
 Night Ringing = excluded from External Page  
 Background Music = excluded from External Page  
 External Page = not included in All Call Page

**SYSTEM PROGRAMMING**  
**SECTION 100-020-300**  
**JUNE 1983**

System Assignments (Options): 03 Program  
Station 10 DND/Nite Key = Nite key  
Ringing Modes = 2  
Tenant Service = Not equipped  
DSS Console Signalling = Voice first  
Message Waiting Center Station 12 = Not equipped  
Message Waiting Center Station 11 = Not equipped  
Message Waiting Center Station 10 = Equipped  
DSS #2 = Not equipped  
DSS #1 = Equipped

MCOU Outpulsing Selection: 04 Program  
DTMF = Equipped

Automatic Recall From Hold Timing: 05 Program  
32 Seconds

**CO LINE OPTIONS**

Automatic Release On Hold Enable: 06 Program  
Disabled = all CO lines

Automatic Release On Hold Timing: 07 Program  
ESS Timing = all CO lines

Tenant Service Selection: 08 Program  
Tenant #1 = all CO lines

CO Line "Dial 9" Group Selection: 09 Program  
Enable = all CO lines

PBX Backup: 10 Program  
CO Operation = all CO lines

PBX Access Codes: 1X Program  
No Codes Assigned

Toll Restriction Disable: 20 Program  
Toll Restriction = all CO lines (ineffective if  
Program 6XX not utilized)

Toll Restriction Exception Codes: 2X Program  
No Codes Assigned

**STATION OPTIONS**

Station CO Line Access: 3XX Program  
Access Allowed = all lines, all stations

Station Key Assignment: 4XX Program  
Assignment #1 20-key EKT = all stations

Station Class of Service: 5XX Program  
Privacy Override = not allowed all stations  
DND Override = not allowed all stations  
Group Page D = not included  
Group Page C = not included  
Group Page B = not included  
Group Page A = not included  
Speakerphones = allowed all stations  
Automatic Dialing = allowed all stations  
Automatic Line Preference = enable all stations  
All Call = include all stations

Toll Restriction Classification: 6XX Program  
No Restrictions = all stations

Station Outgoing Restrictions: 7XX Program  
No Restrictions = all stations

CO Ringing Assignments-Day: 8XX Program  
All CO lines ring station 10

CO Ringing Assignments-Day 2: 8#XX Program  
No CO ringing assigned

CO Ringing Assignments-Nite: 9XX Program  
All CO lines ring station 11

02.84 The table numbers for the various programs are listed below:

### TABLE LIST

Table	Title	Program	Page
4	System Data Printout Codes	—	26
5	Speed Dial Memory Printout Selection Codes	—	27
6	System Assignments (Basic)	01	32
7	System Assignments (Options)	02	33
8	System Assignments (Options)	03	34
9	MCOU MF/DP Outpulsing Selection	04	35
10	Automatic Recall from Hold Timing	05	36
11	AROH Enable	06	37
12	AROH Timing	07	38
13	Tenant Service Selection	08	39
14	CO Line "Dial 9" Group Selection	09	40
15	PBX Backup	10	41
16	PBX Access Codes	1X	42
17	Toll Restriction Disable	20	43
18	Toll Restriction Exception Codes	2X	44
19	Station CO Access	3XX	45
20	Station Type & Flexible Key Assignment	4XX	46
21	Station Class of Service	5XX	47
22	Toll Restriction Classification	6XX	48
23	Station Outgoing Restriction	7XX	49
24	CO Ringing Assignments—Day	8XX	50
25	CO Ringing Assignments—Day 2	8#XX	51
26	CO Ringing Assignments—Nite	9XX	52

## 03 SYSTEM DATA PRINTOUT

### 03.00 System Data Printout Via SMDR

**03.01** If the STRATA system is equipped with an MSMU (SMDR) PCB, it is possible to obtain a printout of the system data and speed dialing memory via a printer that is connected to the SMDR output port.

**03.02** The data printout should be done during a low traffic period since this procedure interferes with normal SMDR output. Any call records generated during a printout will be lost.

**03.03** Commands to print system data are entered by station 17 while it is in the programming mode. It is possible to print out all or parts of the system data and speed dial memory. The possible choices are:

**System Data:**

- 1 = All data
- 2 = Programs 01 through 09

- 3 = Programs 10 and 1X
- 4 = Programs 20 and 2X
- 5 = Program 3XX
- 6 = Program 4XX
- 7 = Program 5XX
- 8 = Program 6XX
- 9 = Program 7XX
- 10 = Program 8XX
- 11 = Program 8#XX
- 12 = Program 9XX

**Speed Dial Memory:**

- 1 = All data
- 2 = System list
- 3 = Any individual station list

**03.04** To request a printout:

- a) Depress the SET switch on the MCAU:
  - SET LED = on
  - Station 17 MW/FL LED = on
- b) Depress the SPKR key on station 17:
  - SPKR LED = on

**SYSTEM PROGRAMMING**  
**SECTION 100-020-300**  
**JUNE 1983**

- c) Dial   :
  - SPKR LED = flash
- d) INT and CO 1~8 LEDs will switch on and off in response to operations of the associated keys. Refer to Tables 4 & 5 and set the INT and CO 1~8 LEDs to the proper pattern for the printout required.
- e) Depress the  key:
  - SPKR LED = off
  - INT & CO LEDs = off
  - Printout will begin (see Figures 2 ~ 6 for examples of the printout format).
- f) Normal SMDR operation will return when the printout is complete.
- g) Repeat from step b until all printouts have been obtained.
- h) Release the SET switch on the MCAU.

- 03.05 To stop a printout before it is complete:
- a) Depress the  key:
    - SPKR LED = on
  - b) Dial   :
    - SPKR LED = on
    - LEDs illuminated in the above step d will light
  - c) Depress the appropriate  and/or  keys necessary to extinguish all LEDs.
  - d) Depress the  key:
    - SPKR LED = off
    - Printout will stop after a short delay
  - e) Normal SMDR functions will return.

**TABLE 4**  
**SYSTEM DATA PRINTOUT SELECTION CODES**

LED	PROGRAM NUMBER											Print out all
	01 - 09	10 & 1X	20 & 2X	3XX	4XX	5XX	6XX	7XX	8XX	8#XX	9XX	
CO 8	X	X	X	X	X	X	X	X	X	X	X	X
CO 7	X	X	X	X	X	X	X	X	X	X	X	X
CO 6	X	X	X	X	X	X	X	X	X	X	X	X
CO 5	0	0	0	0	0	0	0	0	0	0	0	0
CO 4	0	0	0	0	0	0	0	0	0	0	0	0
CO 3	0	0	0	0	0	0	0	0	X	X	X	X
CO 2	0	0	0	0	X	X	X	X	0	0	0	X
CO 1	0	0	X	X	0	0	X	X	0	X	0	X
INT	0	X	0	X	0	X	0	X	0	0	X	X

LED on=X LED off=0

TABLE 5

SPEED DIAL MEMORY PRINTOUT  
SELECTION CODES

SPEED DIAL LISTS

LED	SYS	#10	#11	#12	#13	#14	#15	#16	#17	#18	#19
CO8	X	X	X	X	X	X	X	X	X	X	X
CO7	0	0	0	0	0	0	0	0	0	0	0
CO6	X	0	0	0	0	0	0	0	0	0	0
CO5	X	0	0	0	0	0	0	0	0	0	0
CO4	X	X	X	X	X	X	X	X	X	X	X
CO3	0	0	0	0	0	0	0	0	0	X	X
CO2	0	0	0	0	0	X	X	X	X	0	0
CO1	0	0	0	X	X	0	0	X	X	0	0
INT	0	0	X	0	X	0	X	0	X	0	X

LED on=X LED off=0

SPEED DIAL LISTS (Stations 20-29)

LED	#20	#21	#22	#23	#24	#25	#26	#27	#28	#29
CO8	X	X	X	X	X	X	X	X	X	X
CO7	0	0	0	0	0	0	0	0	0	0
CO6	0	0	0	0	0	0	0	0	0	0
CO5	X	X	X	X	X	X	X	X	X	X
CO4	0	0	0	0	0	0	0	0	0	0
CO3	0	0	0	0	0	0	0	0	X	X
CO2	0	0	0	0	X	X	X	X	0	0
CO1	0	0	X	X	0	0	X	X	0	0
T	0	X	0	X	0	X	0	X	0	X

LED on=X LED off=0

SPEED DIAL LISTS (Stations 30-39)

LED	#30	#31	#32	#33	#34	#35	#36	#37	#38	#39
CO8	X	X	X	X	X	X	X	X	X	X
CO7	0	0	0	0	0	0	0	0	0	0
CO6	0	0	0	0	0	0	0	0	0	0
CO5	X	X	X	X	X	X	X	X	X	X
CO4	X	X	X	X	X	X	X	X	X	X
CO3	0	0	0	0	0	0	0	0	X	X
CO2	0	0	0	0	X	X	X	X	0	0
CO1	0	0	X	X	0	0	X	X	0	0
INT	0	X	0	X	0	X	0	X	0	X

LED on=X LED off=0

SPEED DIAL LISTS (Stations 40-49)

LED	#40	#41	#42	#43	#44	#45	#46	#47	#48	#49
CO8	X	X	X	X	X	X	X	X	X	X
CO7	0	0	0	0	0	0	0	0	0	0
CO6	X	X	X	X	X	X	X	X	X	X
CO5	0	0	0	0	0	0	0	0	0	0
CO4	0	0	0	0	0	0	0	0	0	0
CO3	0	0	0	0	0	0	0	0	X	X
CO2	0	0	0	0	X	X	X	X	0	0
CO1	0	0	X	X	0	0	X	X	0	0
INT	0	X	0	X	0	X	0	X	0	X

LED on=X LED off=0

SPEED DIAL LISTS (Stations 50-59)

LED	#50	#51	#52	#53	#54	#55	#56	#57	#58	#59
CO8	X	X	X	X	X	X	X	X	X	X
CO7	0	0	0	0	0	0	0	0	0	0
CO6	X	X	X	X	X	X	X	X	X	X
CO5	0	0	0	0	0	0	0	0	0	0
CO4	X	X	X	X	X	X	X	X	X	X
CO3	0	0	0	0	0	0	0	0	X	X
CO2	0	0	0	0	X	X	X	X	0	0
CO1	0	0	X	X	0	0	X	X	0	0
INT	0	X	0	X	0	X	0	X	0	X

LED on=X LED off=0

SPEED DIAL LISTS (Stations 60-65)

LED	#60	#61	#62	#63	#64	#65	All Output
CO8	X	X	X	X	X	X	X
CO7	0	0	0	0	0	0	0
CO6	X	X	X	X	X	X	0
CO5	X	X	X	X	X	X	0
CO4	0	0	0	0	0	0	0
CO3	0	0	0	0	0	0	0
CO2	0	0	0	0	X	X	0
CO1	0	0	X	X	0	0	0
INT	0	X	0	X	0	X	0

LED on=X LED off=0

```

## SYSTEM PROGRAMMING ##
                                     1:SELECT (LED ON)
      21  16 15      8  7      1INT
0   1   000000 00000000 00000000
0   2   000000 00000000 00000000
0   3   000000 00000000 00000101
0   4   000000 00000000 00000000
0   5   000000 00000000 00000100
0   6   000000 00000000 00000000
0   7   000000 00000000 00000000
0   8   000000 00000000 00000000
0   9   111111 11111111 11111110

## END OF PRINT ##

```

FIGURE 2—SAMPLE OF PRINTOUT FOR PROGRAMS 01 ~ 09

```

## SYSTEM PROGRAMMING ##
                                     1:SELECT (LED ON)
      21  16 15      8  7      1INT
1   0   000000 00000000 00000000

      (DATA = DIAL NUMBER)
1   1   91
1   2   85
1   3
1   4
1   5
1   6
1   7
1   8

## END OF PRINT ##

```

FIGURE 3—SAMPLE PRINTOUT OF PROGRAMS 10 & 1X

```

## SYSTEM PROGRAMMING ##
                                     1:SELECT (LED ON)
      21  16 15      8  7      1INT
2   0   000000 00000000 00000000

      (DATA = DIAL NUMBER)
2   1   1234
2   2   5678
2   3
2   4
2   5

## END OF PRINT ##

```

FIGURE 4—SAMPLE PRINTOUT OF PROGRAMS 20 & 2X

---

##		SYSTEM PROGRAMMING			##		
		21	16	15	8	7	1:SELECT (LED ON)
3	10	111111	11111111	11111111	11111110		
3	11	111111	11111111	11111111	11111110		
3	12	111111	11111111	11111111	11111110		
3	13	111111	11111111	11111111	11111110		
3	14	111111	11111111	11111111	11111110		
3	15	111111	11111111	11111111	11111110		
3	16	111111	11111111	11111111	11111110		
3	17	111111	11111111	11111111	11111110		
3	18	111111	11111111	11111111	11111110		
3	19	111111	11111111	11111111	11111110		
3	20	111111	11111111	11111111	11111110		
3	21	111111	11111111	11111111	11111110		
3	22	111111	11111111	11111111	11111110		
3	23	111111	11111111	11111111	11111110		
3	24	111111	11111111	11111111	11111110		
3	25	111111	11111111	11111111	11111110		
3	26	111111	11111111	11111111	11111110		
3	27	111111	11111111	11111111	11111110		
3	28	111111	11111111	11111111	11111110		
3	29	111111	11111111	11111111	11111110		
3	30	111111	11111111	11111111	11111110		
3	31	111111	11111111	11111111	11111110		
3	32	111111	11111111	11111111	11111110		
3	33	111111	11111111	11111111	11111110		
3	34	111111	11111111	11111111	11111110		
3	35	111111	11111111	11111111	11111110		
3	36	111111	11111111	11111111	11111110		
3	37	111111	11111111	11111111	11111110		
3	38	111111	11111111	11111111	11111110		
3	39	111111	11111111	11111111	11111110		
3	40	111111	11111111	11111111	11111110		
3	41	111111	11111111	11111111	11111110		

FIGURE 5  
SAMPLE PRINTOUT OF PROGRAM 3XX (Stations 10~41)

*(continued on next page)*

---



---

(System Programming Continued)

MM/DD/YY

3	42	111111	11111111	11111110
3	43	111111	11111111	11111110
3	44	111111	11111111	11111110
3	45	111111	11111111	11111110
3	46	111111	11111111	11111110
3	47	111111	11111111	11111110
3	48	111111	11111111	11111110
3	49	111111	11111111	11111110
3	50	111111	11111111	11111110
3	51	111111	11111111	11111110
3	52	111111	11111111	11111110
3	53	111111	11111111	11111110
3	54	111111	11111111	11111110
3	55	111111	11111111	11111110
3	56	111111	11111111	11111110
3	57	111111	11111111	11111110
3	58	111111	11111111	11111110
3	59	111111	11111111	11111110
3	60	111111	11111111	11111110
3	61	111111	11111111	11111110
3	62	111111	11111111	11111110
3	63	111111	11111111	11111110
3	64	111111	11111111	11111110
3	65	111111	11111111	11111110

## END OF PRINT

##

FIGURE 5A

SAMPLE PRINTOUT OF PROGRAM 3XX (Stations 42 ~ 65)

---

---

```
## REPERTORY DIAL      ##  
  
#00 *60 17147305000  
#00 *61 19142731750  
#00 *62 12135551212  
#00 *63 17148531212  
#00 *64 17145551212  
#00 *65 17147305000  
#00 *66 19142731750  
#00 *67 12135551212  
#00 *68 17148531212  
#00 *69 17145551212  
#00 *70 17147305000  
#00 *71 19142731750  
#00 *72 12135551212  
#00 *73 17148531212  
#00 *74 17145551212  
#00 *75 17147305000  
#00 *76 19142731750  
#00 *77 12135551212  
#00 *78 17148531212  
#00 *79 17145551212  
#00 *80 17147305000  
#00 *81 19142731750  
#00 *82 12135551212  
#00 *83 17148531212  
#00 *84 17145551212  
#00 *85 17147305000  
#00 *86 19142731750  
#00 *87 12135551212  
#00 *88 17148531212  
#00 *89 17145551212  
#00 *90 17147305000  
#00 *91 19142731750  
#00 *92 12135551212  
#00 *93 17148531212  
#00 *94 17145551212  
#00 *95 17147305000  
#00 *96 19142731750  
#00 *97 12135551212  
#00 *98 17148531212  
#00 *99 17145551212  
  
## END OF PRINT      ##
```

FIGURE 6  
SAMPLE PRINTOUT OF SPEED DIAL-SYSTEM

---

TABLE 6  
PROGRAM 01 – SYSTEM ASSIGNMENTS (BASIC)

1. Operate SET switch on MCAU	LED on MCAU on Station 17 MW/FL LED on System is in program mode Normal functions halt on Station 17																																		
2. Operate <input type="checkbox"/> SPKR key on Station 17	SPKR LED steady on																																		
3. Dial <input type="checkbox"/> 0 <input type="checkbox"/> 1 on dial pad	SPKR LED flashes continuously INT & CO LEDs will be on according to present data																																		
4. Refer to the System Record Sheet. Using the <input type="checkbox"/> INT and <input type="checkbox"/> CO keys, turn the associated LEDs on or off, as required. The detailed meaning of each key/LED is shown below.	An X on the record sheet means the LED should be on If the LED is already on, pushing the associated key will turn it off and vice-versa LEDs may be turned off and on until the desired pattern is set																																		
<b>NOTE:</b> If any key/LED is not shown, it is not used.																																			
	<table border="1"> <thead> <tr> <th data-bbox="363 1094 792 1129">Feature</th> <th data-bbox="792 1094 911 1129">Key/LED</th> <th colspan="2" data-bbox="915 1094 1219 1129">Data Meaning</th> </tr> <tr> <td></td> <td></td> <th data-bbox="915 1129 1057 1157">LED on</th> <th data-bbox="1062 1129 1219 1157">LED off</th> </tr> </thead> <tbody> <tr> <td data-bbox="363 1157 792 1184">Pause Timing (After Flash)</td> <td data-bbox="792 1157 911 1184">CO 5</td> <td data-bbox="915 1157 1057 1184">3.0 sec.</td> <td data-bbox="1062 1157 1219 1184">1.5 sec.</td> </tr> <tr> <td data-bbox="363 1184 792 1211">Pause After Flash</td> <td data-bbox="792 1184 911 1211">CO 4</td> <td data-bbox="915 1184 1057 1211">Yes</td> <td data-bbox="1062 1184 1219 1211">No</td> </tr> <tr> <td data-bbox="363 1211 792 1239">Pause Timing (After PBX Acc Code)</td> <td data-bbox="792 1211 911 1239">CO 3</td> <td data-bbox="915 1211 1057 1239">3.0 sec.</td> <td data-bbox="1062 1211 1219 1239">1.5 sec.</td> </tr> <tr> <td data-bbox="363 1239 792 1266">Flash Key Timing</td> <td data-bbox="792 1239 911 1266">CO 2</td> <td data-bbox="915 1239 1057 1266">0.5 sec.</td> <td data-bbox="1062 1239 1219 1266">2.0 sec.</td> </tr> <tr> <td data-bbox="363 1266 792 1293">Not used</td> <td data-bbox="792 1266 911 1293">CO 1</td> <td data-bbox="915 1266 1057 1293">-</td> <td data-bbox="1062 1266 1219 1293">-</td> </tr> <tr> <td data-bbox="363 1293 792 1346">Intercom Signalling</td> <td data-bbox="792 1293 911 1346">INT</td> <td data-bbox="915 1293 1057 1346">Tone First</td> <td data-bbox="1062 1293 1219 1346">Voice First</td> </tr> </tbody> </table>	Feature	Key/LED	Data Meaning				LED on	LED off	Pause Timing (After Flash)	CO 5	3.0 sec.	1.5 sec.	Pause After Flash	CO 4	Yes	No	Pause Timing (After PBX Acc Code)	CO 3	3.0 sec.	1.5 sec.	Flash Key Timing	CO 2	0.5 sec.	2.0 sec.	Not used	CO 1	-	-	Intercom Signalling	INT	Tone First	Voice First		
Feature	Key/LED	Data Meaning																																	
		LED on	LED off																																
Pause Timing (After Flash)	CO 5	3.0 sec.	1.5 sec.																																
Pause After Flash	CO 4	Yes	No																																
Pause Timing (After PBX Acc Code)	CO 3	3.0 sec.	1.5 sec.																																
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5. Operate the <input type="checkbox"/> HOLD key to place new data in memory.	All Station 17 LEDs (except MW/FL) go off																																		
6A. Go to Step 2 in another program table ... or ... 6B. Transfer data into working memory per Paragraph 02.06	LED on MCAU goes off Station 17 MW/FL LED goes off New data is stored, previous data is erased																																		

**TABLE 7**  
**PROGRAM 02 – SYSTEM ASSIGNMENTS (OPTIONS)**

1. Operate SET switch on MCAU	LED on MCAU on Station 17 MW/FL LED on System is in program mode Normal functions halt on Station 17																														
2. Operate <input type="checkbox"/> SPKR key on Station 17	SPKR LED steady on																														
3. Dial <input type="checkbox"/> 0 <input type="checkbox"/> 2 on dial pad	SPKR LED flashes continuously INT & CO LEDs will be on according to present data																														
4. Refer to the System Record Sheet. Using the <input type="checkbox"/> INT and <input type="checkbox"/> CO keys, turn the associated LEDs on or off, as required. The detailed meaning of each key/LED is shown below.	An X on the record sheet means the LED should be on If the LED is already on, pushing the associated key will turn it off and vice-versa LEDs may be turned off and on until the desired pattern is set																														
<i>NOTE:</i> If any key/LED is not shown, it is not used.																															
	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th rowspan="2" style="width: 25%;">Feature</th> <th rowspan="2" style="width: 15%;">Key/LED</th> <th colspan="2" style="width: 40%;">Data Meaning</th> </tr> <tr> <th style="width: 15%;">LED on</th> <th style="width: 15%;">LED off</th> </tr> </thead> <tbody> <tr> <td style="text-align: left;">Station 24/25 OPX</td> <td>CO 10</td> <td>24 only</td> <td>24 &amp; 25</td> </tr> <tr> <td style="text-align: left;">Station 22/23 OPX</td> <td>CO 9</td> <td>22 only</td> <td>22 &amp; 23</td> </tr> <tr> <td style="text-align: left;">Station 20/21 OPX</td> <td>CO 8</td> <td>20 only</td> <td>20 &amp; 21</td> </tr> <tr> <td style="text-align: left;">Nite Ring over External Page</td> <td>CO 2</td> <td>Yes</td> <td>No</td> </tr> <tr> <td style="text-align: left;">BGM over External Page</td> <td>CO 1</td> <td>Yes</td> <td>No</td> </tr> <tr> <td style="text-align: left;">External Page with All Call</td> <td>INT</td> <td>Yes</td> <td>No</td> </tr> </tbody> </table>	Feature	Key/LED	Data Meaning		LED on	LED off	Station 24/25 OPX	CO 10	24 only	24 & 25	Station 22/23 OPX	CO 9	22 only	22 & 23	Station 20/21 OPX	CO 8	20 only	20 & 21	Nite Ring over External Page	CO 2	Yes	No	BGM over External Page	CO 1	Yes	No	External Page with All Call	INT	Yes	No
Feature	Key/LED			Data Meaning																											
		LED on	LED off																												
Station 24/25 OPX	CO 10	24 only	24 & 25																												
Station 22/23 OPX	CO 9	22 only	22 & 23																												
Station 20/21 OPX	CO 8	20 only	20 & 21																												
Nite Ring over External Page	CO 2	Yes	No																												
BGM over External Page	CO 1	Yes	No																												
External Page with All Call	INT	Yes	No																												
5. Operate the <input type="checkbox"/> HOLD key to place new data in memory.	All Station 17 LEDs (except MW/FL) go off																														
6A. Go to Step 2 in another program table ... or ...	LED on MCAU goes off Station 17 MW/FL LED goes off New data is stored, previous data is erased																														
6B. Transfer data into working memory per Paragraph 02.06																															

TABLE 8  
PROGRAM 03—SYSTEM ASSIGNMENTS (OPTIONS)

1. Operate SET switch on MCAU	LED on MCAU on Station 17 MW/FL LED on System is in program mode Normal functions halt on Station 17			
2. Operate <input type="checkbox"/> SPKR key on Station 17	SPKR LED steady on			
3. Dial <input type="checkbox"/> 0 <input type="checkbox"/> 3 on dial pad	SPKR LED flashes continuously INT & CO LEDs will be on according to present data			
4. Refer to the System Record Sheet. Using the <input type="checkbox"/> INT and <input type="checkbox"/> CO keys, turn the associated LEDs on or off, as required. The detailed meaning of each key/LED is shown below.	An X on the record sheet means the LED should be on If the LED is already on, pushing the associated key will turn it off and vice-versa LEDs may be turned off and on until the desired pattern is set			
<i>NOTE:</i> If any key/LED is not shown, it is not used.				
	Feature	Key/LED	Data Meaning	
			LED on	LED off
	Station 10 DND/Nite Key	CO 9	DND	Nite
	Ringing Modes	CO 8	3 Modes	2 Modes
	Tenant Service	CO 7	Yes	No
	DSS Signalling	CO 6	Tone First	Voice First
	Not Used	CO 5	—	—
	Message Waiting Station 12	CO 4	Yes	No
	Message Waiting Station 11	CO 3	Yes	No
	Message Waiting Station 10	CO 2	Yes	No
	DSS #2 Equipped (Station 11)	CO 1	Yes	No
	DSS #1 Equipped (Station 10)	INT	Yes	No
5. Operate the <input type="checkbox"/> HOLD key to place new data in memory.	All Station 17 LEDs (except MW/FL) go off			
6A. Go to Step 2 in another program table ... or ... 6B. Transfer data into working memory per Paragraph 02.06	LED on MCAU goes off Station 17 MW/FL LED goes off New data is stored, previous data is erased			

TABLE 9  
PROGRAM 04 – MCOU OUTPUTSING SELECTION

<p>1. Operate SET switch on MCAU</p>	<p>LED on MCAU on Station 17 MW/FL LED on System is in program mode Normal functions halt on Station 17</p>
<p>2. Operate <input type="checkbox"/> SPKR key on Station 17</p>	<p>SPKR LED steady on</p>
<p>3. Dial <input type="checkbox"/> 0 <input type="checkbox"/> 4 on dial pad To program CO 18~21, dial <input type="checkbox"/> 0 <input type="checkbox"/> * <input type="checkbox"/> 4, then CO 1~4 = CO 18~21.</p>	<p>SPKR LED flashes continuously CO LEDs will be on according to present data</p>
<p>4. Refer to the System Record Sheet. CO keys are divided into groups of three (CO 1~3 = Group 1, CO 4~6 = Group 2, etc). Any one key in the group can be used to control all three LEDs in the group. For example: If CO 1~3 LEDs are "on", depressing CO key 1, 2 or 3 will turn off all three LEDs. If the LEDs are on, DP will be outpulsed. If the LEDs are off, DTMF will be utilized.</p>	<p>An X on the record sheet means the LED should be on If the LEDs are already on, pushing the associated key will turn them off and vice-versa LEDs may be turned off and on until the desired pattern is set</p>
<p>5. Operate the <input type="checkbox"/> HOLD key to place new data in memory.</p>	<p>All Station 17 LEDs (except MW/FL) go off</p>
<p>6A. Return to Step 2 in order to continue with this program ... or ... 6B. Go to Step 2 in another program table ... or ... 6C. Transfer data into working memory per Paragraph 02.06</p>	<p>LED on MCAU goes off Station 17 MW/FL LED goes off New data is stored, previous data is erased</p>

TABLE 10  
PROGRAM 05 — AUTOMATIC RECALL FROM HOLD TIMING

1. Operate SET switch on MCAU	LED on MCAU on Station 17 MW/FL LED on System is in program mode Normal functions halt on Station 17																			
2. Operate <input type="checkbox"/> SPKR key on Station 17	SPKR LED steady on																			
3. Dial <input type="checkbox"/> 0 <input type="checkbox"/> 5 on dial pad	SPKR LED flashes continuously INT or CO LED will be on according to present data																			
4. Refer to the System Record Sheet. Using an <input type="checkbox"/> INT or <input type="checkbox"/> CO key, turn its associated LED on as required. The detailed meaning of each key/LED is shown below.	An X on the record sheet means the LED should be on Only one LED is permitted to be on, pushing another key will turn that LED on and turn off the previous LED																			
<p><i>NOTE:</i> If any key/LED is not shown, it is not used.</p>																				
	<table border="1"> <thead> <tr> <th>KEY/LED</th> <th>TIME</th> </tr> </thead> <tbody> <tr><td>CO 7</td><td>160 seconds</td></tr> <tr><td>CO 6</td><td>128 seconds</td></tr> <tr><td>CO 5</td><td>96 seconds</td></tr> <tr><td>CO 4</td><td>64 seconds</td></tr> <tr><td>CO 3</td><td>48 seconds</td></tr> <tr><td>CO 2</td><td>32 seconds</td></tr> <tr><td>CO 1</td><td>16 seconds</td></tr> <tr><td>INT</td><td>No Recall</td></tr> </tbody> </table>	KEY/LED	TIME	CO 7	160 seconds	CO 6	128 seconds	CO 5	96 seconds	CO 4	64 seconds	CO 3	48 seconds	CO 2	32 seconds	CO 1	16 seconds	INT	No Recall	
KEY/LED	TIME																			
CO 7	160 seconds																			
CO 6	128 seconds																			
CO 5	96 seconds																			
CO 4	64 seconds																			
CO 3	48 seconds																			
CO 2	32 seconds																			
CO 1	16 seconds																			
INT	No Recall																			
5. Operate the <input type="checkbox"/> HOLD key to place new data in memory.	All Station 17 LEDs (except MW/FL) go off																			
6A. Go to Step 2 in another program table ... or ... 6B. Transfer data into working memory per Paragraph 02.06	LED on MCAU goes off Station 17 MW/FL LED goes off New data is stored, previous data is erased																			

TABLE 11  
PROGRAM 06—AUTOMATIC RELEASE ON HOLD ENABLE

<p>1. Operate SET switch on MCAU</p>	<p>LED on MCAU on Station 17 MW/FL LED on System is in program mode Normal functions halt on Station 17</p>
<p>2. Operate <input type="checkbox"/> SPKR key on Station 17</p>	<p>SPKR LED steady on</p>
<p>3. Dial <input type="checkbox"/> <input type="checkbox"/> on dial pad To program CO 18~21, dial <input type="checkbox"/> * <input type="checkbox"/> , then CO 1~4 = CO 18~21.</p>	<p>SPKR LED flashes continuously CO LEDs will be on according to present data</p>
<p>4. Refer to the System Record Sheet. Using the <input type="checkbox"/> CO keys, turn the associated LEDs on or off, as required. Each CO key/LED represents itself—that is, if CO 1 LED is on, CO 1 will have the AROH function during normal operation. If CO 1 LED is off, AROH will not function on that line.</p>	<p>An X on the record sheet means the LED should be on If the LED is already on, pushing the associated key will turn it off and vice-versa LEDs may be turned off and on until the desired pattern is set</p>
<p>5. Operate the <input type="checkbox"/> HOLD key to place new data in memory.</p>	<p>All Station 17 LEDs (except MW/FL) go off</p>
<p>6A. Return to Step 2 in order to continue with this program ... or ... 6B. Go to Step 2 in another program table ... or ... 6C. Transfer data into working memory per Paragraph 02.06</p>	<p>LED on MCAU goes off Station 17 MW/FL LED goes off New data is stored, previous data is erased</p>



TABLE 12  
PROGRAM 07—AUTOMATIC RELEASE ON HOLD (AROH) TIMING

<p>1. Operate SET switch on MCAU</p>	<p>LED on MCAU on Station 17 MW/FL LED on System is in program mode Normal functions halt on Station 17</p>
<p>2. Operate <input type="checkbox"/> SPKR key on Station 17</p>	<p>SPKR LED steady on</p>
<p>3. Dial <input type="checkbox"/> <input type="checkbox"/> 7 on dial pad To program CO 18~21, dial <input type="checkbox"/> <input type="checkbox"/> * <input type="checkbox"/> 7, then CO 1~4 = CO 18~21.</p>	<p>SPKR LED flashes continuously CO LEDs will be on according to present data</p>
<p>4. Refer to the System Record Sheet. Using the <input type="checkbox"/> CO keys, turn the associated LEDs on or off, as required. Each CO key/LED represents itself—that is, if CO 1 LED is on, CO 1 will use XB (crossbar) timing for AROH. If CO 1 LED is off, ESS timing will be used on that line.</p>	<p>An X on the record sheet means the LED should be on If the LED is already on, pushing the associated key will turn it off and vice-versa LEDs may be turned off and on until the desired pattern is set</p>
<p>5. Operate the <input type="checkbox"/> HOLD key to place new data in memory.</p>	<p>All Station 17 LEDs (except MW/FL) go off</p>
<p>6A. Return to Step 2 in order to continue with this program ... or ... 6B. Go to Step 2 in another program table ... or ... 6C. Transfer data into working memory per Paragraph 02.06</p>	<p>LED on MCAU goes off Station 17 MW/FL LED goes off New data is stored, previous data is erased</p>

NOTE:

*This program will have no meaning unless AROH is enabled via Program 06.*

TABLE 13  
PROGRAM 08—TENANT SERVICE SELECTION

<p>1. Operate SET switch on MCAU</p>	<p>LED on MCAU on Station 17 MW/FL LED on System is in program mode Normal functions halt on Station 17</p>
<p>2. Operate <input type="checkbox"/> SPKR key on Station 17</p>	<p>SPKR LED steady on</p>
<p>3. Dial <input type="checkbox"/> <input type="checkbox"/> on dial pad To program CO 18~21, dial <input type="checkbox"/> * <input type="checkbox"/> , then CO 1~4 = CO 18~21.</p>	<p>SPKR LED flashes continuously CO LEDs will be on according to present data</p>
<p>4. Refer to the System Record Sheet. Using the <input type="checkbox"/> CO keys, turn the associated LEDs on or off, as required. Each CO key/LED represents itself—that is, if CO 1 LED is on, CO 1 will belong to tenant #2. If CO 1 LED is off, CO 1 will belong to tenant #1.</p>	<p>An X on the record sheet means the LED should be on If the LED is already on, pushing the associated key will turn it off and vice-versa LEDs may be turned off and on until the desired pattern is set</p>
<p>5. Operate the <input type="checkbox"/> HOLD key to place new data in memory.</p>	<p>All Station 17 LEDs (except MW/FL) go off</p>
<p>6A. Return to Step 2 in order to continue with this program ... or ... 6B. Go to Step 2 in another program table ... or ... 6C. Transfer data into working memory per Paragraph 02.06</p>	<p>LED on MCAU goes off Station 17 MW/FL LED goes off New data is stored, previous data is erased</p>

NOTE:

*This program will have no meaning unless Tenant Service was selected in Program 03.*

TABLE 14  
PROGRAM 09—CO LINE "DIAL 9" GROUP SELECTION

<p>1. Operate SET switch on MCAU</p>	<p>LED on MCAU on Station 17 MW/FL LED on System is in program mode Normal functions halt on Station 17</p>
<p>2. Operate <input type="checkbox"/> SPKR key on Station 17</p>	<p>SPKR LED steady on</p>
<p>3. Dial <input type="checkbox"/> 0 <input type="checkbox"/> 9 on dial pad To program CO 18~21, dial <input type="checkbox"/> 0 * <input type="checkbox"/> 9, then CO 1~4 = CO 18~21.</p>	<p>SPKR LED flashes continuously CO LEDs will be on according to present data</p>
<p>4. Refer to the System Record Sheet. Using the <input type="checkbox"/> CO keys, turn the associated LEDs on or off, as required. Each CO key/LED represents itself—that is, if CO 1 LED is on, CO 1 will be included in the "Dial 9" Group for random selection by a single line (OPX) extension. If CO 1 LED is off, CO 1 can be accessed only by dialing <input type="checkbox"/> 7 <input type="checkbox"/> 0 <input type="checkbox"/> 1 at the OPX extension.</p>	<p>An X on the record sheet means the LED should be on If the LEDs are already on, pushing the associated key will turn them off and vice-versa LEDs may be turned off and on until the desired pattern is set</p>
<p>5. Operate the <input type="checkbox"/> HOLD key to place new data in memory.</p>	<p>All Station 17 LEDs (except MW/FL) go off</p>
<p>6A. Return to Step 2 in order to continue with this program ... or ... 6B. Go to Step 2 in another program table ... or ... 6C. Transfer data into working memory per Paragraph 02.06</p>	<p>LED on MCAU goes off Station 17 MW/FL LED goes off New data is stored, previous data is erased</p>

TABLE 15  
PROGRAM 10 — PBX BACK-UP

<p>1. Operate SET switch on MCAU</p>	<p>LED on MCAU on Station 17 MW/FL LED on System is in program mode Normal functions halt on Station 17</p>
<p>2. Operate <input type="checkbox"/> SPKR key on Station 17</p>	<p>SPKR LED steady on</p>
<p>3. Dial <input type="checkbox"/> 1 <input type="checkbox"/> 0 on dial pad To program CO 18~21, dial <input type="checkbox"/> 1 <input type="checkbox"/> * <input type="checkbox"/> 0, then CO 1~4 = CO 18~21.</p>	<p>SPKR LED flashes continuously CO LEDs will be on according to present data</p>
<p>4. Refer to the System Record Sheet. Using the <input type="checkbox"/> CO keys, turn the associated LEDs on or off, as required. Each CO key/LED represents itself—that is, if CO 1 LED is on, the system assumes that CO 1 line is connected to a PBX line and will cause features such as Toll Restriction and Automatic Dialing to function accordingly.</p>	<p>An X on the record sheet means the LED should be on If the LED is already on, pushing the associated key will turn it off and vice-versa LEDs may be turned off and on until the desired pattern is set</p>
<p>5. Operate the <input type="checkbox"/> HOLD key to place new data in memory.</p>	<p>All Station 17 LEDs (except MW/FL) go off</p>
<p>6A. Return to Step 2 in order to continue with this program ... or ... 6B. Go to Step 2 in another program table ... or ... 6C. Transfer data into working memory per Paragraph 02.06</p>	<p>LED on MCAU goes off Station 17 MW/FL LED goes off New data is stored, previous data is erased</p>

TABLE 16  
PROGRAM 1X—PBX ACCESS CODES

1. Operate the SET switch on the MCAU	LED on MCAU on Station 17 MW/FL LED on System is in program mode Normal functions halt on Station 17																																																												
2. Operate <input type="checkbox"/> SPKR key on Station 17	SPKR LED steady on																																																												
3. Dial <input type="checkbox"/> X on the dial pad X = 1, 2, 3, 4, etc.—the system will store a maximum of 8 access codes. Dial <input type="checkbox"/> 1 (X=1) to program 1st access code; <input type="checkbox"/> 2 (X=2) to program the 2nd access code, etc.	SPKR LED flashes continuously CO 10 LED will flash																																																												
4. Refer to the System Record Sheet. Using the dial pad, enter the required access code (two digits must be entered) <ul style="list-style-type: none"> <li>If access code is a single digit, enter a *, as the second digit</li> <li>If all combinations following a particular 1st digit are to be considered access codes (e.g., 91, 92, 93, etc), operate the DND key (do not care) key for the second digit.</li> </ul>	<p>INT &amp; CO 2, 4, &amp; 6 LEDs will light to display data in Binary format CO 10 or 12 LED will light steadily to indicate which digit is being displayed</p> <table border="1" data-bbox="792 953 1432 1209"> <thead> <tr> <th>Key</th> <th>Start</th> <th>1st Digit</th> <th>2nd Digit</th> </tr> </thead> <tbody> <tr> <td>CO 12</td> <td></td> <td></td> <td>Steady</td> </tr> <tr> <td>CO 10</td> <td>Flash</td> <td>Steady</td> <td></td> </tr> <tr> <td>CO 8</td> <td></td> <td></td> <td></td> </tr> <tr> <td>CO 6</td> <td></td> <td>Binary Data</td> <td>Binary Data</td> </tr> <tr> <td>CO 4</td> <td></td> <td>Binary Data</td> <td>Binary Data</td> </tr> <tr> <td>CO 2</td> <td></td> <td>Binary Data</td> <td>Binary Data</td> </tr> <tr> <td>INT</td> <td></td> <td>Binary Data</td> <td>Binary Data</td> </tr> </tbody> </table>	Key	Start	1st Digit	2nd Digit	CO 12			Steady	CO 10	Flash	Steady		CO 8				CO 6		Binary Data	Binary Data	CO 4		Binary Data	Binary Data	CO 2		Binary Data	Binary Data	INT		Binary Data	Binary Data																												
Key	Start	1st Digit	2nd Digit																																																										
CO 12			Steady																																																										
CO 10	Flash	Steady																																																											
CO 8																																																													
CO 6		Binary Data	Binary Data																																																										
CO 4		Binary Data	Binary Data																																																										
CO 2		Binary Data	Binary Data																																																										
INT		Binary Data	Binary Data																																																										
<p><b>NOTE:</b></p> <p>a) Depressing the <input type="checkbox"/> key displays the data without changing it. The first <input type="checkbox"/> will display the 1st digit; the second <input type="checkbox"/> will display the 2nd digit.</p> <p>b) To clear existing data without entering a new number, depress <input type="checkbox"/> key two times.</p>																																																													
Binary Numbers	<table border="1" data-bbox="431 1388 792 1545"> <thead> <tr> <th></th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> <th>8</th> <th>9</th> <th>0</th> <th>DND</th> </tr> </thead> <tbody> <tr> <td>CO 6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> <tr> <td>CO 4</td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td>CO 2</td> <td>X</td> <td>X</td> <td></td> <td></td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td>X</td> <td></td> </tr> <tr> <td>INT</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> </tbody> </table> <p>X = LED on</p> <p>All LEDs off = no data</p>		1	2	3	4	5	6	7	8	9	0	DND	CO 6								X	X	X	X	CO 4				X	X	X	X				X	CO 2	X	X			X	X				X		INT	X	X	X	X	X	X	X	X	X	X	X
	1	2	3	4	5	6	7	8	9	0	DND																																																		
CO 6								X	X	X	X																																																		
CO 4				X	X	X	X				X																																																		
CO 2	X	X			X	X				X																																																			
INT	X	X	X	X	X	X	X	X	X	X	X																																																		
5. Operate the <input type="checkbox"/> HOLD key to place new data in memory.	All Station 17 LEDs (except MW/FL) go off																																																												
<p>6A. Return to Step 2 in order to continue with this program ... or ...</p> <p>6B. Go to Step 2 in another program table ... or ...</p> <p>6C. Transfer data into working memory per Paragraph 02.06</p>	LED on MCAU goes off Station 17 MW/FL LED goes off New data is stored, previous data is erased																																																												

TABLE 17  
PROGRAM 20 – TOLL RESTRICTION DISABLE

<p>1. Operate SET switch on MCAU</p>	<p>LED on MCAU on Station 17 MW/FL LED on System is in program mode Normal functions halt on Station 17</p>
<p>2. Operate <input type="checkbox"/> SPKR key on Station 17</p>	<p>SPKR LED steady on</p>
<p>3. Dial <input type="checkbox"/> 2 <input type="checkbox"/> 0 on dial pad To program CO 18~21, dial <input type="checkbox"/> 2 <input type="checkbox"/> * <input type="checkbox"/> 0, then CO 1~4 = CO 18~21.</p>	<p>SPKR LED flashes continuously CO LEDs will be on according to present data</p>
<p>4. Refer to the System Record Sheet. Using the <input type="checkbox"/> CO keys, turn the associated LEDs on or off, as required. Each CO key/LED represents itself—that is, if CO 1 LED is on, Toll Restriction will not function on CO 1. If CO 1 LED is off, Toll Restriction will function on CO 1, etc.</p>	<p>An X on the record sheet means the LED should be on If the LED is already on, pushing the associated key will turn it off and vice-versa LEDs may be turned off and on until the desired pattern is set</p>
<p>5. Operate the <input type="checkbox"/> HOLD key to place new data in memory.</p>	<p>All Station 17 LEDs (except MW/FL) go off</p>
<p>6A. Return to Step 2 in order to continue with this program ... or ... 6B. Go to Step 2 in another program table ... or ... 6C. Transfer data into working memory per Paragraph 02.06</p>	<p>LED on MCAU goes off Station 17 MW/FL LED goes off New data is stored, previous data is erased</p>

TABLE 18  
PROGRAM 2X—TOLL RESTRICTION EXCEPTION CODES

1. Operate the SET switch on the MCAU		LED on MCAU on Station 17 MW/FL LED on System is in program mode Normal functions halt on Station 17					
2. Operate <input type="checkbox"/> SPKR key on Station 17		SPKR LED steady on					
3. Dial <input type="checkbox"/> 2 <input type="checkbox"/> X on the dial pad. X = 1, 2, 3, 4 or 5—the system will store a maximum of 5 access codes. Dial <input type="checkbox"/> 2 <input type="checkbox"/> 1 (X=1) to program 1st access code; <input type="checkbox"/> 2 <input type="checkbox"/> 2 (X=2) to program the 2nd access code, etc.		SPKR LED flashes continuously CO 10 LED will flash					
4. Refer to the System Record Sheet. Using the dial pad, enter the 4-digit exception code (4 digits must be entered). • If less than 4 digits are used, enter <input type="checkbox"/> * for remaining digits.		INT & CO 2, 4, & 6 LEDs will light to display data in Binary format CO 10, 12 or 14 LEDs will light steadily to indicate which digit is being displayed					
	KEY	Start	1st Digit	2nd Digit	3rd Digit	4th Digit	
	CO 14					Steady	
	CO 12			Steady	Steady		
	CO 10	Flash	Steady		Steady		
	CO 8						
	CO 6		Binary Data	Binary Data	Binary Data	Binary Data	
	CO 4		Binary Data	Binary Data	Binary Data	Binary Data	
	CO 2		Binary Data	Binary Data	Binary Data	Binary Data	
	INT		Binary Data	Binary Data	Binary Data	Binary Data	
<b>NOTE:</b>							
a) Depressing the <input type="checkbox"/> * key displays the data without changing it. The first <input type="checkbox"/> * will display the 1st digit; the second <input type="checkbox"/> * will display the 2nd digit, etc.							
b) To clear existing data without entering a new number, depress <input type="checkbox"/> * key four times.							
Binary Numbers	CO 6					X X X	X LED on
	CO 4		X X X X				
	CO 2	X X		X X		X	ALL LEDs off=no data
	INT	X	X	X	X	X	
5. Operate the <input type="checkbox"/> HOLD key to place new data in memory.		All Station 17 LEDs (except MW/FL) go off					
6A. Return to Step 2 in order to continue with this program ... or ...							
6B. Go to Step 2 in another program table ... or ...							
6C. Transfer data into working memory per Paragraph 02.06		LED on MCAU goes off Station 17 MW/FL LED goes off New data is stored, previous data is erased					

TABLE 19  
PROGRAM 3XX — STATION CO LINE ACCESS

<p>1. Operate <b>SET</b> switch on the MCAU</p>	<p>LED on MCAU on Station 17 MW/FL LED on System is in program mode Normal functions halt on Station 17</p>
<p>2. Operate the <input type="checkbox"/> <b>SPKR</b> key on Station 17</p>	<p>SPKR LED steady on</p>
<p>3. Dial <input type="checkbox"/> <b>3</b> <input type="checkbox"/> <b>X</b> <input type="checkbox"/> <b>X</b> on the dial pad XX = the station number of the station to be programmed. To program CO 18~21, dial <input type="checkbox"/> <b>3</b> <input type="checkbox"/> <b>*</b> <input type="checkbox"/> <b>X</b> <input type="checkbox"/> <b>X</b>, then CO 1~4 = CO 18~21. <i>NOTE:</i> <i>For multiple station programming, refer to Paragraph 02.22.</i></p>	<p>SPKR LED flashes continuously CO LEDs will be on according to present data</p>
<p>4. Refer to the System Record Sheet. Using the CO keys, turn the associated LEDs on or off, as required.</p> <ul style="list-style-type: none"> <li>• LED on = Access allowed</li> <li>• Each CO key/LED represents itself— that is, if CO 1 LED is on, station being programmed ( <input type="checkbox"/> <b>X</b> <input type="checkbox"/> <b>X</b> ) is allowed access to CO 1.</li> </ul>	<p>An X on the record sheet means the LED should be on If the LED is already on, pushing the associated key will turn it off and vice-versa LEDs may be turned off and on until the desired pattern is set</p>
<p>5. Operate the <input type="checkbox"/> <b>HOLD</b> key to place new data in memory.</p>	<p>All Station 17 LEDs (except MW/FL) go off</p>
<p>6A. Return to Step 2 in order to continue with this program ... or ... 6B. Go to Step 2 in another program table ... or ... 6C. Transfer data into working memory per Paragraph 02.06</p>	<p>LED on MCAU goes off Station 17 MW/FL LED goes off New data is stored, previous data is erased</p>



TABLE 20

PROGRAM 4XX — STATION TYPE and KEY ASSIGNMENT

<p>1. Operate the SET switch on the MCAU</p>	<p>LED on MCAU on Station 17 MW/FL LED on System is in program mode Normal functions halt on Station 17</p>																																																																												
<p>2. Operate the <input type="checkbox"/> SPKR key on Station 17</p>	<p>SPKR LED steady on</p>																																																																												
<p>3. Dial <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> on the dial.pad XX = the station number of the station to be programmed. <i>Note:</i> <i>For multiple station programming, refer to Paragraph 02.22.</i></p>	<p>SPKR LED flashes continuously An INT or CO LED will be on according to present data</p>																																																																												
<p>4. Refer to the System Record Sheet. Using the <input type="checkbox"/> INT or <input type="checkbox"/> CO key turn the associated LED on as required, depending upon the type and style of the telephone being used at that station. The detailed meaning of each key is shown below.</p>	<p>An X on the record sheet means the LED should be on Only one LED is permitted to be on for each station. Pushing a key will turn that LED on and turn off the previous LED</p>																																																																												
<p><i>NOTE:</i> <i>If any key/LED is not shown, it is not used. See Par. 02.37 for the definition of the assignment numbers.</i> <i>If a station is equipped with a DSS (Program 03), key assign. 20-key #8 will be selected automatically.</i></p>																																																																													
	<table border="1"> <thead> <tr> <th>KEY ASSIGN.</th> <th>KEY</th> <th>LED ON</th> <th>LED OFF</th> </tr> </thead> <tbody> <tr><td>10-key #5</td><td>CO 17</td><td>Equipped</td><td>Not equipped</td></tr> <tr><td>10-key #4</td><td>CO 16</td><td>Equipped</td><td>Not equipped</td></tr> <tr><td>10-key #3</td><td>CO 15</td><td>Equipped</td><td>Not equipped</td></tr> <tr><td>10-key #2</td><td>CO 14</td><td>Equipped</td><td>Not equipped</td></tr> <tr><td>10-key #1</td><td>CO 13</td><td>Equipped</td><td>Not equipped</td></tr> <tr><td>20-key #13</td><td>CO 12</td><td>Equipped</td><td>Not equipped</td></tr> <tr><td>20-key #12</td><td>CO 11</td><td>Equipped</td><td>Not equipped</td></tr> <tr><td>20-key #11</td><td>CO 10</td><td>Equipped</td><td>Not equipped</td></tr> <tr><td>20-key #10</td><td>CO 9</td><td>Equipped</td><td>Not equipped</td></tr> <tr><td>20-key #9</td><td>CO 8</td><td>Equipped</td><td>Not equipped</td></tr> <tr><td>20-key #8</td><td>CO 7</td><td>Equipped</td><td>Not equipped</td></tr> <tr><td>20-key #7</td><td>CO 6</td><td>Equipped</td><td>Not equipped</td></tr> <tr><td>20-key #6</td><td>CO 5</td><td>Equipped</td><td>Not equipped</td></tr> <tr><td>20-key #5</td><td>CO 4</td><td>Equipped</td><td>Not equipped</td></tr> <tr><td>20-key #4</td><td>CO 3</td><td>Equipped</td><td>Not equipped</td></tr> <tr><td>20-key #3</td><td>CO 2</td><td>Equipped</td><td>Not equipped</td></tr> <tr><td>20-key #2</td><td>CO 1</td><td>Equipped</td><td>Not equipped</td></tr> <tr><td>20-key #1</td><td>INT</td><td>Equipped</td><td>Not equipped</td></tr> </tbody> </table>	KEY ASSIGN.	KEY	LED ON	LED OFF	10-key #5	CO 17	Equipped	Not equipped	10-key #4	CO 16	Equipped	Not equipped	10-key #3	CO 15	Equipped	Not equipped	10-key #2	CO 14	Equipped	Not equipped	10-key #1	CO 13	Equipped	Not equipped	20-key #13	CO 12	Equipped	Not equipped	20-key #12	CO 11	Equipped	Not equipped	20-key #11	CO 10	Equipped	Not equipped	20-key #10	CO 9	Equipped	Not equipped	20-key #9	CO 8	Equipped	Not equipped	20-key #8	CO 7	Equipped	Not equipped	20-key #7	CO 6	Equipped	Not equipped	20-key #6	CO 5	Equipped	Not equipped	20-key #5	CO 4	Equipped	Not equipped	20-key #4	CO 3	Equipped	Not equipped	20-key #3	CO 2	Equipped	Not equipped	20-key #2	CO 1	Equipped	Not equipped	20-key #1	INT	Equipped	Not equipped
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<p>6A. Return to Step 2 in order to continue with this program ... or ... 6B. Go to Step 2 in another program table ... or ... 6C. Transfer data into working memory per Paragraph 02.06</p>	<p>LED on MCAU goes off Station 17 MW/FL LED goes off New data is stored, previous data is erased</p>																																																																												

TABLE 21  
PROGRAM 5XX – STATION CLASS OF SERVICE

1. Operate the SET switch on the MCAU	LED on MCAU on Station 17 MW/FL LED on System is in program mode Normal functions halt on Station 17																																												
2. Operate the <input type="checkbox"/> SPKR key on Station 17	SPKR LED steady on																																												
3. Dial <input type="checkbox"/> 5 <input type="checkbox"/> X <input type="checkbox"/> X on the dial pad XX = the station number of the station to be programmed <i>NOTE:</i> <i>For multiple station programming, refer to Paragraph 02.22.</i>	SPKR LED flashes continuously INT & CO LEDs will be on according to present data																																												
4. Refer to the System Record Sheet. Using the <input type="checkbox"/> ON and <input type="checkbox"/> OFF keys, turn the associated LEDs on or off, as required. The detailed meaning of each key is shown below.	An X on the record sheet means the LED should be on If the LED is already on, pushing the associated key will turn it off and vice-versa LEDs may be turned off and on until the desired pattern is set																																												
<i>NOTE:</i> <i>If any key/LED is not shown, it is not used.</i>																																													
	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="width: 30%;">Feature</th> <th style="width: 15%;">KEY</th> <th style="width: 15%;">LED ON</th> <th style="width: 15%;">LED OFF</th> </tr> </thead> <tbody> <tr> <td>Privacy Override Allowed</td> <td>CO 17</td> <td>Yes</td> <td>No</td> </tr> <tr> <td>DND Override Allowed</td> <td>CO 16</td> <td>Yes</td> <td>No</td> </tr> <tr> <td>Group Page D</td> <td>CO 7</td> <td>Included</td> <td>Excluded</td> </tr> <tr> <td>Group Page C</td> <td>CO 6</td> <td>Included</td> <td>Excluded</td> </tr> <tr> <td>Group Page B</td> <td>CO 5</td> <td>Included</td> <td>Excluded</td> </tr> <tr> <td>Group Page A</td> <td>CO 4</td> <td>Included</td> <td>Excluded</td> </tr> <tr> <td>Speakerphone</td> <td>CO 3</td> <td>Allowed</td> <td>Not Allowed</td> </tr> <tr> <td>Automatic Dialing</td> <td>CO 2</td> <td>Allowed</td> <td>Not Allowed</td> </tr> <tr> <td>Auto Line Preference</td> <td>CO 1</td> <td>Allowed</td> <td>Not Allowed</td> </tr> <tr> <td>Include in All Call</td> <td>INT</td> <td>Included</td> <td>Excluded</td> </tr> </tbody> </table>	Feature	KEY	LED ON	LED OFF	Privacy Override Allowed	CO 17	Yes	No	DND Override Allowed	CO 16	Yes	No	Group Page D	CO 7	Included	Excluded	Group Page C	CO 6	Included	Excluded	Group Page B	CO 5	Included	Excluded	Group Page A	CO 4	Included	Excluded	Speakerphone	CO 3	Allowed	Not Allowed	Automatic Dialing	CO 2	Allowed	Not Allowed	Auto Line Preference	CO 1	Allowed	Not Allowed	Include in All Call	INT	Included	Excluded
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DND Override Allowed	CO 16	Yes	No																																										
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Auto Line Preference	CO 1	Allowed	Not Allowed																																										
Include in All Call	INT	Included	Excluded																																										
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6A. Return to Step 2 in order to continue with this program ... or ... 6B. Go to Step 2 in another program table ... or ... 6C. Transfer data into working memory per Paragraph 02.06	LED on MCAU goes off Station 17 MW/FL LED goes off New data is stored, previous data is erased																																												

TABLE 22  
PROGRAM 6XX – TOLL RESTRICTION CLASSIFICATION

<p>1. Operate the SET switch on the MCAU</p>	<p>LED on MCAU on Station 17 MW/FL LED on System is in program mode Normal functions halt on Station 17</p>																														
<p>2. Operate the <input type="checkbox"/> SPKR key on Station 17</p>	<p>SPKR LED steady on</p>																														
<p>3. Dial <input type="checkbox"/> 6 <input type="checkbox"/> X <input type="checkbox"/> X on the dial pad XX = the station number of the station to be programmed. <i>NOTE:</i> <i>For multiple station programming, refer to Paragraph 02.22.</i></p>	<p>SPKR LED flashes continuously INT &amp; CO LEDs will be on according to present data</p>																														
<p>4. Refer to the System Record Sheet. Using the <input type="checkbox"/> INT &amp; <input type="checkbox"/> CO keys, turn the associated LEDs on or off, as required. The detailed meaning of each key is shown below.</p>	<p>An X on the record sheet means the LED should be on If the LED is already on, pushing the associated key will turn it off and vice-versa LEDs may be turned off and on until the desired pattern is set</p>																														
	<table border="1"> <thead> <tr> <th>KEY</th> <th>Data Meaning (LED on)</th> </tr> </thead> <tbody> <tr> <td>CO 13</td> <td>Allow Exception Code #5*</td> </tr> <tr> <td>CO 12</td> <td>Allow Exception Code #4*</td> </tr> <tr> <td>CO 11</td> <td>Allow Exception Code #3**</td> </tr> <tr> <td>CO 10</td> <td>Allow Exception Code #2**</td> </tr> <tr> <td>CO 9</td> <td>Allow Exception Code #1**</td> </tr> <tr> <td>CO 8</td> <td>Allow 411**</td> </tr> <tr> <td>CO 7</td> <td>Allow 911**</td> </tr> <tr> <td>CO 6</td> <td>Allow 800**</td> </tr> <tr> <td>CO 5</td> <td>Restrict 0 as first digit</td> </tr> <tr> <td>CO 4</td> <td>Restrict 0 as second digit</td> </tr> <tr> <td>CO 3</td> <td>Restrict 1 as first digit</td> </tr> <tr> <td>CO 2</td> <td>Restrict 1 as second digit</td> </tr> <tr> <td>CO 1</td> <td>Allow 1 + 7 digits</td> </tr> <tr> <td>INT</td> <td>Allow 7 digits only</td> </tr> </tbody> </table>	KEY	Data Meaning (LED on)	CO 13	Allow Exception Code #5*	CO 12	Allow Exception Code #4*	CO 11	Allow Exception Code #3**	CO 10	Allow Exception Code #2**	CO 9	Allow Exception Code #1**	CO 8	Allow 411**	CO 7	Allow 911**	CO 6	Allow 800**	CO 5	Restrict 0 as first digit	CO 4	Restrict 0 as second digit	CO 3	Restrict 1 as first digit	CO 2	Restrict 1 as second digit	CO 1	Allow 1 + 7 digits	INT	Allow 7 digits only
KEY	Data Meaning (LED on)																														
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<p>5. Operate the <input type="checkbox"/> HOLD key to place new data in memory.</p>	<p>All Station 17 LEDs (except MW/FL) go off</p>																														
<p>6A. Return to Step 2 in order to continue with this program ... or ... 6B. Go to Step 2 in another program table ... or ... 6C. Transfer data into working memory per Paragraph 02.06</p>	<p>LED on MCAU goes off Station 17 MW/FL LED goes off New data is stored, previous data is erased</p>																														

\*29 digits maximum allowed

\*\*11 digits maximum allowed

TABLE 23  
PROGRAM 7XX—STATION OUTGOING RESTRICTION

<p>1. Operate the <b>SET</b> switch on the MCAU</p>	<p>LED on MCAU on Station 17 MW/FL LED on System is in program mode Normal functions halt on Station 17</p>
<p>2. Operate the <input type="checkbox"/> <b>SPKR</b> key on Station 17</p>	<p>SPKR LED steady on</p>
<p>3. Dial <input type="checkbox"/> 7 <input type="checkbox"/> X <input type="checkbox"/> X on the dial pad XX = the station number of the station to be programmed. <i>NOTE:</i> <i>For multiple station programming, refer to Paragraph 02.22.</i></p>	<p>SPKR LED flashes continuously CO LEDs will be on according to present data</p>
<p>4. Refer to the System Record Sheet. Using <input type="checkbox"/> <b>CO</b> keys, turn the associated LEDs on or off, as required.</p> <ul style="list-style-type: none"> <li>• LED on = Restricted outgoing calls</li> <li>• Each CO key/LED represents itself—that is, if CO 1 LED is on, the station being programmed ( <input type="checkbox"/> <input type="checkbox"/> ) is restricted from outgoing calls on CO 1.</li> </ul>	<p>An X on the record sheet means the LED should be on If the LED is already on, pushing the associated key will turn it off and vice-versa LEDs may be turned off and on until the desired pattern is set</p>
<p>5. Operate the <input type="checkbox"/> <b>HOLD</b> key to place new data in memory.</p>	<p>All Station 17 LEDs (except MW/FL) will go off New data is stored, old data is erased</p>
<p>6A. Return to Step 2 in order to continue with this program ... or ... 6B. Go to Step 2 in another program table ... or ... 6C. Transfer data into working memory per Paragraph 02.06</p>	<p>LED on MCAU goes off Station 17 MW/FL LED goes off</p>

TABLE 24  
PROGRAM 8XX – CO RINGING ASSIGNMENTS – DAY

<p>1. Operate the SET switch on the MCAU</p>	<p>LED on MCAU on Station 17 MW/FL LED on System is in program mode Normal functions halt on Station 17</p>
<p>2. Operate the <input type="checkbox"/> SPKR key on Station 17</p>	<p>SPKR LED steady on</p>
<p>3. Dial <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> on the dial pad XX = the station number of the station to be programmed. <i>NOTE:</i> <i>For multiple station programming, refer to Paragraph 02.22</i></p>	<p>SPKR LED flashes continuously CO LEDs will be on according to present data</p>
<p><i>NOTE:</i> a) Station designated to ring must be allowed access by Program 3XX. b) A maximum of 8 stations may be assigned to ring for any given CO line. If more are assigned, the lowest 8 station numbers will ring—others will be ignored.</p>	
<p>4. Refer to the System Record Sheet. Using <input type="checkbox"/> CO keys, turn the associated LEDs on or off, as required. LED on = Ring in DAY mode Each CO key/LED represents itself—that is, if CO 1 LED is on, the station being programmed ( <input type="checkbox"/> <input type="checkbox"/> ) will ring when a call comes in on CO 1 in the DAY mode.</p>	<p>An X on the record sheet means the LED should be on If the LED is already on, pushing the associated key will turn it off and vice-versa LEDs may be turned off and on until the desired pattern is set</p>
<p>5. Operate the <input type="checkbox"/> HOLD key to place new data in memory.</p>	<p>All Station 17 LEDs (except MW/FL) will go off New data is stored, old data is erased</p>
<p>6A. Return to Step 2 in order to continue with this program ... or ... 6B. Go to Step 2 in another program table ... or ... 6C. Transfer data into working memory per Paragraph 02.06</p>	<p>LED on MCAU goes off Station 17 MW/FL LED goes off</p>

TABLE 25  
PROGRAM 8#XX – CO RINGING ASSIGNMENTS – DAY 2

<p>1. Operate the <b>SET</b> switch on the MCAU</p>	<p>LED on MCAU on Station 17 MW/FL LED on System is in program mode Normal functions halt on Station 17</p>
<p>2. Operate the <input type="checkbox"/> <b>SPKR</b> key on Station 17</p>	<p>SPKR LED steady on</p>
<p>3. Dial <input type="checkbox"/> <b>8</b> <input type="checkbox"/> <b>#</b> <input type="checkbox"/> <b>X</b> <input type="checkbox"/> <b>X</b> on the dial pad XX = the station number of the station to be programmed. <i>NOTE:</i> <i>For multiple station programming, refer to Paragraph 02.22</i></p>	<p>SPKR LED flashes continuously CO LEDs will be on according to present data</p>
<p><i>NOTE:</i> a) Station designated to ring must be allowed access by Program 3XX. b) A maximum of 8 stations may be assigned to ring for any given CO line. If more are assigned, the lowest 8 station numbers will ring—others will be ignored.</p>	
<p>4. Refer to the System Record Sheet. Using <input type="checkbox"/> <b>CO</b> keys, turn the associated LEDs on or off, as required. LED on = Ring in DAY 2 mode Each CO key/LED represents itself—that is, if CO 1 LED is on, the station being programmed ( <input type="checkbox"/> <b>X</b> <input type="checkbox"/> ) will ring when a call comes in on CO 1 in the DAY 2 mode.</p>	<p>An X on the record sheet means the LED should be on If the LED is already on, pushing the associated key will turn it off and vice-versa LEDs may be turned off and on until the desired pattern is set</p>
<p>5. Operate the <input type="checkbox"/> <b>HOLD</b> key to place new data in memory.</p>	<p>All Station 17 LEDs (except MW/FL) will go off New data is stored, old data is erased</p>
<p>6A. Return to Step 2 in order to continue with this program     ... or ... 6B. Go to Step 2 in another program table     ... or ... 6C. Transfer data into working memory per Paragraph 02.06</p>	<p>LED on MCAU goes off Station 17 MW/FL LED goes off</p>

TABLE 26  
PROGRAM 9XX — CO RINGING ASSIGNMENTS — NITE

<p>1. Operate the SET switch on the MCAU</p>	<p>LED on MCAU on Station 17 MW/FL LED on System is in program mode Normal functions halt on Station 17</p>
<p>2. Operate the <input type="checkbox"/> SPKR key on Station 17</p>	<p>SPKR LED steady on</p>
<p>3. Dial <input type="checkbox"/> 9 <input type="checkbox"/> X <input type="checkbox"/> X on the dial pad XX = the station number of the station to be programmed. <i>NOTE:</i> <i>For multiple station programming, refer to Paragraph 02.22</i></p>	<p>SPKR LED flashes continuously CO LEDs will be on according to present data</p>
<p><i>NOTE:</i> a) Station designated to ring must be allowed access by Program 3XX. b) A maximum of 8 stations may be assigned to ring for any given CO line. If more are assigned, the lowest 8 station numbers will ring—others will be ignored.</p>	
<p>4. Refer to the System Record Sheet. Using <input type="checkbox"/> CO keys, turn the associated LEDs on or off, as required. LED on = Ring in NITE mode Each CO key/LED represents itself—that is, if CO 1 LED is on, the station being programmed ( <input type="checkbox"/> X <input type="checkbox"/> ) will ring when a call comes in on CO 1 in the NITE mode.</p>	<p>An X on the record sheet means the LED should be on if the LED is already on, pushing the associated key will turn it off and vice-versa LEDs may be turned off and on until the desired pattern is set</p>
<p>5. Operate the <input type="checkbox"/> HOLD key to place new data in memory.</p>	<p>All Station 17 LEDs (except MW/FL) will go off New data is stored, old data is erased</p>
<p>6A. Return to Step 2 in order to continue with this program ... or ... 6B. Go to Step 2 in another program table ... or ... 6C. Transfer data into working memory per Paragraph 02.06</p>	<p>LED on MCAU goes off Station 17 MW/FL LED goes off</p>