Release 2 PROGRAMMING PROCEDURES

PROGRAMMING PROCEDURES

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01 INTRODUCTION

01.00 General

- O1.01 Data governing overall system operation and feature execution for both systems are 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, are stored in random-access memory (RAM) and can easily be changed according to individual installation requirements.
- **01.02** All 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 indicated in this section are made via station 17 (as the input/output device), which may be equipped with either a 10-key or a 20-key EKT (although a 20-key LCD EKT is strongly recommended). 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 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 for the first time or the HCAU is changed, the system must be initialized. See Paragraph 04.00.

01.05 Remote and on-site programming procedures via a terminal are covered in Remote Administration/Maintenance, Section 500-020-600, of this manual.

02 PROGRAMMING INFORMATION

02.00 General

- **02.01** A 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** To aid in programming this system, an overlay has been provided with the installation

documentation. Place the programming overlay over the designation strip of the 20-key EKT at station 17. This insures that the key/LEDs are correctly identified and matched with the information given in this section.

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

IMPORTANT!

Station 17 may be equipped with either a 10-key or a 20-key EKT (a 20-key LCD EKT is strongly recommended). However, in all tables and procedures that follow, the overlay key designation (for a 20-key) is given.

- In the majority of programs (Type 1), the various keys are used to change "bits" of system data. The LEDs associated with keys 00 ~ 19 show their status before and after key depression. Each key/LED has 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 LEDs 00 ~ 19, verifies the entered data by displaying it in binary format. An LCD EKT also displays the data, if equipped.
- **02.04** The programming mode is activated by locking in the **SET** switch on the HCAU and then depressing the **SPKE** key on station 17. After the station has been activated, a program number is dialed on the station dial pad, and the system responds as follows:
- Type 1 programs: Station 17 LEDs display the existing data in these categories.
- Type 2 programs: LED 10 on station 17 flashes continuously. Actual data can be reviewed without alteration by multiple depressions of the key.
- **02.05** Data can be altered while it is being displayed. To input new data via station 17, perform the following:
- Type 1 programs: 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 programs: Data is entered via the dial pad. The LEDs display the data in binary for-

mat. An LCD EKT also displays the data.

- **02.06** 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.
- 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.
- **02.07** Data may be secured in working memory in one of two ways:
- If the system is not in service, release the SET switch on the HCAU, and cycle (rock) the system power switch OFF (HPSU +5V and power LEDs must go 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 calls should not be dropped, depress the following keys, in the order given here, on station 17: SPKR 1 2 30 01 04 05 08 09 12 18 HOLD. This code secures the data in working memory without cancelling any calls. Release the SET switch to exit programming mode.

02.10 Programming COs 18 ~ 21

02.11 Some Type 1 programs use the key/LEDs to represent CO lines. The EKT at station 17 has a maximum of 17 keys that represents CO lines. To program COs 18 ~ 21, it is necessary to dial ■ after the first digit of the program number. Key/LEDs 01 ~ 04 will then function as COs 18 ~ 21. For example:

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 or groups of stations si-

multaneously.

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:

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O: All stations

□ 2: Stations 18 ~ 25

0 €: Stations 26 ~ 33

0 5: Stations 42 ~ 49

0 6: Stations 50 ~ 57

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

Steady LED: Data is the same for all stations in the 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 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 Programming With 10-key EKT

02.31 If station 17 is equipped with a 10-key EKT, the system must be so informed by setting LED 07 to "ON" in **Program 01**. This change is effective immediately after the **HOLD** key is depressed, making it easy to switch between EKTs.

02.32 Once the system recognizes a 10-key EKT, the handset hookswitch can be used as a shift signal to make the 10-key LEDs compatible with the 20-key programming format.

02.33 As shown in Figure 1, when in the programming mode, the key/LEDs represent $00 \sim 09$ when the handset is on-hook and $10 \sim 19$ when it's off-hook. It is possible to switch back and forth an unlimited number of times without disturbing the data.

NOTE:

This procedure is for programming purposes only! For normal operation, the station 17 EKT is set per Program 4XX.

MW/FL CO9 MW/ DND CO8 DNI CO7 CO7 CO1 CO6 CO6 CO1	Handset H	
DND CO8 DNI CO7 CO1 CO1 CO6 CO6 CO1	niai nuttaoot	ff-hook
CO7 CO6 CO1	/FL CO9 N	νw/FL
CO7 CO1 CO1 CO6 CO6 CO1	VD CO8	DND
CO6 CO1	 7	CO17
001		CQ16
CO5 CO5 CO1		CO15
CO4 CO4 CO1		CO14_
CO3 CO3 CO1		CO13
		CO12
CO1 CO1 CO1		CO11
1 00 1 1 1 1		CO10

FIGURE 1—10-key EKT FORMAT O3 PREPARATION

03.00 General

03.01 Before system data can be programmed, option selections must be made and then indicated on the System Record Sheet (see Appendix 1). The record sheet, one of which accompanies each HKSU, serves as a programming guide and installation record.

03.02 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.

03.10 Programming Options

03.11 System Assignments

01: System Assignments (Basic)

0#1: Door Phone Selection

02: System Assignments (Options)

0#2: Account Code Digit Length and TIE Line/OPX Selection

03: System Assignments (Options)

04: CO Line Outpulsing Selection

#4: CO Line Identification

05: Automatic Recall From Hold Timing

0#5: Camp-on Timeout

06: Automatic Release On Hold Enable

0#6: Trunk-to-Trunk Connection Enable

07: Automatic Release On Hold Timing

0#7: 1A2 Interface

08: Tenant Service Selection

0#8: Night Ringing Over External Page

09: Single CO Line (Dial 9) Group Selection

09X: CO Line (Dial 91 ~ 98) Group Assignments

0#9: Off-Premises Line Hunting

190: PBX Backup

19X: PBX Access Codes

03.12 Toll Restriction Assignments

100: Toll Restriction System Parameters

101: Toll Restriction Disable

102: Forced Account Code Check

103: Equal Access #1

104: OCC Authorization Code Length #1

105: Equal Access #2

106: OCC Authorization Code Length #2

108: Toll Restriction Override Code #1

109: Toll Restriction Override Code #21X0: Toll Restriction Class Parameters

1X0: Toll Restriction Class Parameters
1XY: Toll Restriction Class—Area Code

Entry

1XZ: Toll Restriction Class—Office Code

Entry

2XY: Toll Restriction Area/Office Code Ex-

ception Table

1X1: Toll Restriction Class Area/Office Code Exception Table Selection

03.13 Least Cost Routing (LCR) Assignments

1#00: LCR Home Area Code

1#0X: LCR Special Codes

1#06: LCR Parameters

1#07X: Select Long Distance Information Route

1#08X: Select Local Call Route

1#09: Dial Zero (0) Timeout

1#XY: LCR Area Code Table

1#X8Y: LCR Route Definition

1#X50~

53:

Start Time A Schedule

1#X60~

63: Start Time B Schedule

1#X70~

73: Start Time C Schedule

1#9XY: Modified Digits Table

2#XY: LCR Area/Office Code Exception Ta-

ble

03.14 Station Assignments

3XX: Station CO Line Access

3#XX: HOXB, HMDB, HTIB and HIOB Mod-

ule Enable

4XX: Station Type Assignment

4#XX: Station Flexible Key Assignments

5XX: Station Class of Service #1
5#XX: Station Class of Service #2

6XX: Station Toll Restriction/LCR Classifi-

cation

6#XX: Station-to-Station Hunting

7XX: Station Outgoing Call Restriction

81XX ∼

83XX: CO Ringing Assignments-DAY

84XX ~

86XX: CO Ringing Assignments-DAY 2

87XX ~

89XX: CO Ringing Assignments-NIGHT

9#XX: Door Phone Ringing Assignments

*X#: Flexible Access Code Numbering

*XX: Flexible Intercom Numbering

#1XX*YY: Speed Dial (Optional)

- **03.15** The System Record Sheet is used to record the assignment of features for each program. 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.
- **03.16** Make the system option selections per the following instructions, and record the various choices in the System Record Sheet. Use Tables 5 through 62 for detailed programming instructions.

03.20 System Assignments:

01 Program-System Assignments (Basic)

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

 Transfer Privacy—mark an X next to 17 if privacy is to be in effect on a transferred call. Leave blank if Alternate Point Answer of a transferred call is to be permitted.

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- 2) Automatic Dialing Override Toll Restriction—mark an X next to 16 if System Automatic Dialing (addresses 60 ~ 99) is to override Toll Restriction. Leave blank if Toll Restriction is to remain in effect.
- 3) CO Line Groups—mark an X next to 15 if eight CO line groups (dial $91 \sim 98$) are required. Leave blank if one group (dial 9) is sufficient.
- 4) Two CO Line Conferencing—mark an X next to 14 to inhibit two CO line conferencing. Leave blank if two CO line conferencing is to be permitted.
- Least Cost Routing Access—mark an X next to 13 if Least Cost Routing will be used. Leave blank if LCR not used.
- 6) DP Make Ratio—mark an X next to 12 if a 33% make/break timing ratio is required. Leave blank if 40% (usual setting) is sufficient.
- 7) DTMF Signal Time—mark an X next to 11 if 160 ms DTMF signal time is required. Leave blank if signal time is to remain 80 ms.
- 8) Non-Privacy/Privacy—mark an X next to 09 if the system is to be non-private. Leave blank if the system is to be private.
- 9) Station 17 10/20-key EKT—mark an X next to 07 if station 17 is equipped with a 10-key EKT for programming purposes. Leave blank if a 20-key EKT is used.
- 10) Incoming Call Abandon Timeout—mark an X next to 06 if the system should wait for 8 seconds after the last ring to consider an incoming call abandoned. Leave blank if 6 seconds are sufficient.
- 11) Pause Timing (After Flash)—mark an X next to 05 if a 3-second pause (for dial tone delay) is required after a flash. Leave blank if a 1½-second pause is sufficient.
- 12) Pause After Flash—mark an X next to 04 if the system is to insert a pause (defined by 05, this program) between a flash and an automatically dialed number. Leave

blank if a pause is not required.

- 13) Pause Timing (MW/FL or PAU key)—mark an X next to 03 if a 3-second pause (for dial tone delay) is required. Leave blank if a 1½-second pause is sufficient.
- 14) Flash Timing—mark an X next to 02 if the line-open interval produced by the MW/FL key is to be ½-second. Leave blank if the 2-second open interval is required.
- 15) Tone First—mark an X next to 00 if intercom calls require tone ringing. Leave blank if they are to have one tone ring than voice announce.

NOTE:

If the system is to have the Off-hook Call Announce feature, voice first (LED 00, off) must be optioned.

0#1 Program—Door Phone Selection

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

- Door Lock Timeout—mark an X next to 17 if the door lock is to operate for 6 seconds. Leave blank if 3 seconds are sufficient.
- Door Phone 16B Lock—mark an X next to 16 if door phone 16B is to be a door lock output. Leave blank if it is to be a door phone.
- 3) Door Phone 16C Busy—mark an X next to 15 if the system is to busy-out door phone 16C. Leave blank if it is not to show busy.
- 4) Door Phone 16B Busy—mark an X next to 14 if the system is to busy-out door phone 16B. Leave blank if it is not to show busy.
- 5) Station 16 Door Phone/EKT—mark an X next to 13 if station 16 is to be a door phone output. Leave blank if an EKT is to be used at this station.
- 6) Door Phone 15B Lock—mark an X next to 12 if door phone 15B is to be a door lock output. Leave blank if it is to be a door phone.
- Door Phone 15C Busy—mark an X next to 11 if the system is to busy-out door phone 15C. Leave blank if it is not to show busy.
- 8) Door Phone 15B Busy-mark an X next to 10

- if the system is to busy-out door phone 15B. Leave blank if it is not to show busy.
- 9) Station 15 Door Phone/EKT—mark an X next to 09 if station 15 is to be a door phone output. Leave blank if an EKT is to be used at this station.
- 10) Door Phone 14B Door Lock—mark an X next to 08 if door phone 14B is to be a door lock output. Leave blank if it is to be a door phone.
- 11) Door Phone 14C Busy—mark an X next to 07 if the system is to busy-out door phone 14C. Leave blank if it is not to show busy.
- 12) Door Phone 14B Busy—mark an X next to 06 if the system is to busy-out door phone 14B. Leave blank if it is not to show busy.
- 13) Station 14 Door Phone/EKT—mark an X next to 05 if station 14 is to be a door phone output. Leave blank if an EKT is to be used at this station.
- 14) Door Phone Alarm (station 13 only)—mark an X next to 04 if door phone 13C is to be a door alarm input. Leave blank if it is to be a door phone.
- 15) Door Phone 13B Door Lock—mark an X next to 03 if door phone 13B is to be a door lock output. Leave blank if it is to be a door phone.
- 16) Door Phone 13C Busy—mark an X next to 02 if the system is to busy-out door phone 13C. Leave blank if it is not to show busy.
- 17) Door Phone 13B Busy—mark an X next to 01 if the system is to busy-out door phone 13B. Leave blank if it is not to show busy.
- 18) Station 13 Door Phone/EKT—mark an X next to 00 if station 13 is to be a door phone output. Leave blank if an EKT is to be used at this station.

NOTES:

- Door Lock keys are assigned to stations in Program 4#XX, Codes (71 ~ 74).
- 2. An Alarm (Reset) key is available on station 10 only. The Alarm key mode must be programmed as the first \(\textbf{\D} \) key (on station 10) in Program 4#XX, Code (*); LED 10 must be on Program 03.

02 Program-System Assignments (Options)

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

- Trunk-to-Trunk Conference—mark an X next to 17, 16, 15, 14, 13 and/or 12 depending upon how many trunk-to-trunk conferences are to be allowed.
- Amplified Conference—mark an X next to 11, 10, 09 and/or 08 if system is to have up to four Amplified Conference circuits. Leave blank if system will not have Amplified Conference.

NOTE:

Requires customer-supplied amplifier—also used for amplified trunk-to-trunk connections.

- ACB Warning Tone—mark an X next to 06 if the destination station is to hear a warning tone when an automatic callback is initiated.
- 4) LCD Timer—mark an X next to 04 if the Dialed Number display on the LCD EKTs is on for 1 minute before changing to Elapsed Time. Leave blank if 15 seconds are sufficient.
- 5) Night Ringing Over External Page—mark an X next to 02 if Night Ringing Over External Page is required. Leave blank if no ringing is to be heard over External Page. Note: Program 0#8 selects individual COs to ring.
- 6) Background Music (BGM) Over External Page —mark an X next to 01 if BGM is to be heard over the External Page circuit. Leave blank if BGM is not to be heard over the External Page circuit.
- 7) External Page with All Call Page—mark an X next to 00 if the External Page circuit is to be included in an All Call Page. Leave blank if All Call Page is not to be heard over the External Page circuit.

0#2 Program—Account Code Digit Length and TIE Line/OPX Selection

This program has three sections. The first defines the number of digits required in an account code (Forced Account Code feature). Enter the number of digits to be used (4 \sim 15). The

second section is only required for TIE line operation; it assigns TIE line class of service and dedicated station circuits for use with an HTIB module (one HTIB requires two stations). And thirdly, HDTU modem speed, repeat ringing, and ABR retry timing.

- Repeat Ringing—mark an X next to 17 if repeat ringing is required. Leave blank if standard ringing is required.
- ABR Retry Time—mark an X next to 16 if redial will be every 30 seconds. Leave blank if retry will be every minute.
- Modem Speed—mark an X next to 15 if the modem speed required is 1200 bps. Leave blank if 300 bps is required.
- ABR Attempts—mark an X next to 14 if ABR is to occur 10 times. Leave blank if ABR will occur 15 times.
- 5) TIE Line Class of Service—mark an X next to 12 if TIE line stations 22/23 are to be allowed handsfree answerback to intercom. Leave blank if tone first.
- 6) TIE Line Class of Service—mark an X next to 11 if TIE line stations 20/21 are to be allowed handsfree answerback to intercom. Leave blank if tone first.
- 7) TIE Line Assignment—mark an X next to 09 if stations 22 and 23 are to be used for TIE line operation. Leave blank if these stations are to be used for off-premises extensions or EKTs.
- 8) TIE Line Assignment—mark an X next to 08 if stations 20 and 21 are to be used for TIE line operation. Leave blank if these stations are to be used for off-premises extensions or Et Ts.
- Binary Numbers—mark an X next to 00, 01, 02, 03 and/or 04 to indicate the binary number of the account code length.

NOTE:

LED 01 must also be set for TIE lines (Program 3#XX).

03 Program—System Assignments (Options)

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

- Station 10 ALRM Key—mark an X next to 10 if the AD1 key on station 10 is to be an ALRM key. Leave blank if AD1 key is required.
- 2) Station 10 DND Key—mark an X next to 09 if the DND key on station 10 is to be a DND key. Leave blank if a NT key is required.

NOTE:

The M key at station 10 is for a system without DSS 1.

- 3) Ringing Modes—mark an X next to 08 if three ringing modes (DAY, DAY 2, NIGHT) are used. Leave blank if two ringing modes (DAY, NIGHT) are required.
- 4) Tenant Service—mark an X next to 07 if the system is to be equipped with Tenant Service.
- 5) DSS Console Signalling—mark an X next to 06 if calls from a DSS console are to be preceded by a tone. Leave blank if a DSS console call is to be voice first.
- 6) DSS Console/Call Forward—mark an X next to 05 if the DSS console will recognize the called forward/hunt feature at a called station. Leave blank the DSS console will ignore the call forward/hunt feature.
- Message Center-Station 12—mark an X next to 04 if station 12 is to be the Message Center.
- 8) Message Center-Station 11—mark an X next to 03 if station 11 is to be the Message Center.
- Message Center-Station 10—mark an X next to 02 if station 10 is to be the Message Center.

NOTE:

Only one Message Center is permitted; if more than one station is chosen as a Message Center, the lowest numbered station will be registered.

- 10) DSS 2—mark an X next to 01 if the system is to be equipped with DSS 2.
- 11) DSS 1—mark an X next to 00 if the system is to be equipped with DSS 1.

NOTES:

- 1. Only one station (10, 11 or 12) may be a Message Center.
- 2. AD keys are assigned in Program 4#XX.

04 Program—CO Line Outpulsing Selection

Selects DTMF tone (MF) or rotary-dial pulse (DP) outpulsing.

 Mark an X next to the appropriate key/LED if DP is required. Leave blank if MF is required.

#4 Program—CO Line Identification

Assigns names to the CO lines for use at stations with LCD-equipped EKTs. Up to 16 characters may be used.

 Enter the required name(s) in the boxes next to the appropriate CO line(s).

05 Program—Automatic Recall from Hold Timing

Sets the timing for the Automatic Recall from Hold feature. (Used only if LEDs 10, 11 and 12 are OFF in **Program 5#XX**.)

- If recall is desired, select a time period of 16
 ~ 160 seconds and mark an X next to the
 appropriate key/LED in the System Record
 Sheet. The times are not accumulative—only
 one key/LED can be selected.
- 2) If no recall is required, mark an X next to 00.

0#5 Program—Camp-on Timeout

Sets the timing for the originating station to be recalled by a CO line that was camped on to a busy station and remains unanswered.

 Select a period of time (16 ~ 64 seconds) and mark an X next to the appropriate key/ LED on the System Record Sheet. The times are not accumulative—only one key/LED can be selected.

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. This feature will also release trunk-to-trunk connections if enabled in Programs 02 and 0#6.

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

NOTE:

Do not enable AROH with TIE lines. If AROH is available, the CO will automati-

cally drop the lines when the outside party hangs up. However, if AROH is not available, the person who sets up the Trunk-to-Trunk Connection must occasionally monitor the call and disconnect the CO lines when the two parties hang up.

0#6 Program—Trunk-to-Trunk Connection Enable

Selects the CO lines to be used for trunk-to-trunk connections. LEDs 01 \sim 17 represent the CO lines (see Paragraph 02.10).

 Mark an X next to CO lines to be used for trunk-to-trunk connections.

07 Program—Automatic Release on Hold Timing

Selects Cross Bar (XB) or ESS timing for the AROH time required for the CO to open line to enable call to be released from hold—XB greater than 95ms; ESS greater than 450ms. (Has no meaning if AROH was rejected in **Program 06**.)

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

NOTE:

Do not enable AROH with TIE lines.

0#7 Program-1A2 Interface

 Mark an X next to the CO lines to be bridged with the 1A2 system. Leave blank if they will not be bridged with the 1A2 system.

08 Program—Tenant Service Selection

Informs the system of the CO lines that are assigned to each tenant. Night ringing transfer of lines assigned to Tenants #1 and #2 are controlled by DSS 1 (station 10) and DSS 2 (station 11), respectively. Ringing CO lines assigned to Tenant #1 may be picked up with CPU1 key and Tenant #2 CO lines may be picked up with CPU2 key. LEDs 01 \sim 17 represent the CO lines (see Paragraph 02.10). (Has no meaning if Tenant Service was not selected in **Program 03**.)

 Mark an X next to each CO line that is to belong to Tenant #2. Leave blank if the line is to belong to Tenant #1.

0#8 Program—Night Ringing Over External Page

Selects whether or not a CO line rings over external page. LEDs 01 \sim 17 represent the CO

lines (see Paragraph 02.10). (Has no meaning if LED 02 was not ON in Program 02.)

 Mark an X next to the CO lines that ring over external page.

09 Program—Single CO Line (Dial 9) Group Selection

Informs the system of the CO lines that should be considered for selection when a station dials 2. LEDs 01 \sim 17 represent the CO lines (see Paragraph 02.10). (Used only if LED 15 in **Program 01** is OFF.)

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

09X Program—CO Line (Dial 91 \sim 98) Group Assignments

Informs the system of the CO lines that should be considered for selection when a station dials 2 1, 2 2, 3 2, 3 3, 3 5, 9 5, 9 7 or 2 3. (Used only if LED 15 in **Program 01** is ON.)

 Mark an X next to each CO line/trunk group assignment.

NOTE:

Used only if LED 15 is on in Program 01.

0#9 Program—Off-Premises Line Hunting

Selects which CO lines ring the device connected to the "HUNT" output on the HOLB option module. LEDs 01 \sim 17 represent the CO lines (see Paragraph 02.10). The "TEL" output always rings.

- 1) With no Off-Premises Line Hunting (LED off):
 - Call comes into CO1: TEL1 and hunt ring.
 - Call comes into CO2: TEL2 rings, no hunt.
 - Call comes into CO3: TEL3 rings, no hunt.

NOTE:

NIGHT mode has no effect whenever LED is off.

- 2) Off-Premises Line Hunting (LED on)
 - CO1: TEL1 rings (DAY mode): No hunt.
 - CO1: TEL1 rings (NIGHT mode): Huntrings.
 - CO2 & CO3: TEL2 or 3 rings (DAY mode):
 No hunt.
 - CO2 & CO3: TEL2 or 3 rings (NIGHT mode): Hunt rings.

190 Program—PBX Backup

Assigns CO lines to behind-PBX operation.

The system recognizes PBX access codes on selected lines.

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

19X Program—PBX Access Codes

Assigns codes that are used to access CO lines connected to a PBX as determined in **Program 190**. The system recognizes the access codes and reacts appropriately for Toll Restriction, Automatic Dialing and Repeat Last Number Dialed.

 Enter the actual one- or two-digit access codes (maximum: 8).

NOTE:

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If the access code is a single digit, enter "*" in the second column. If all combinations following a particular first digit are to be considered access codes (e.g., 91, 92, 93, etc.), enter "D" (D = key 18 on station 17) in the second column.

03.30 Toll Restriction Assignments

100 Program—Toll Restriction System Parameters

An entry in this program is required only if 3- or 6-digit toll restriction is desired. Informs the system of the dialing plan in the system home area code. Three types of dialing plans are available. Mark an X next to the LED that indicates the dialing plan area of the installation location.

- 02: 1 + AC + NXX (long-distance dialing outside home area code) NXX* (toll dialing within home area code)
- 01: 1 + AC + NXX (long-distance dialing outside home area code)
 1 + NXX (toll dialing within home area code)
- AC + NXX (long-distance dialing outside home area code)
 1 + NXX (toll dialing within home area code)

AC = Area Code
NXX = Office Code
N = 2 ~ 9
X = 0 ~ 9

codes (NXX). There are office codes that follow the area code format due to the unavailability of standard office codes.

101 Program—Toll Restriction Disable

Assigns Toll Restriction to CO lines. LEDs $01 \sim 17$ represent the CO lines (see Paragraph 02.10).

 Mark an X next to each CO line to which Toll Restriction will not apply.

102 Program—Forced Account Code Check

This program applies forced account code to CO lines. Stations accessing these lines are then forced to enter account codes. See **Program 5#XX**, LED 14. (Note: Has no meaning if EKTs are not selected for Forced Account Code in **Program 5#XX**.)

 Mark an X next to the CO lines that are to force an account code for the EKTs selected in Program 5#XX. LEDs 01 ~ 17 represent the CO lines (see Paragraph 02.10).

NOTES:

- 1. Program 0#2defines the number of digits in the account code.
- 2. Has no meaning if station are not selected for forced account code in Program 5#XX.

103 Program—Equal Access (10XXX) or Other Common Carrier (OCC) #1

Informs the system of the first 5-digit code (Equal Access or OCC) that is ignored for Toll Restriction purposes.

 Enter the actual Equal Access or OCC digits to be recognized and ignored.

104 Program—OCC Authorization Code Length #1

Informs the system of the number of digits in the first OCC Authorization Code. These digits are also ignored for Toll Restriction purposes when an outgoing call is placed over an OCC.

Enter the number of digits in the authorization code.

105 Program—Equal Access (10XXX) or Other Common Carrier (OCC) #2

Informs the system of the second 5-digit code (Equal Access or OCC) that is ignored for Toll Restriction purposes.

^{*}This dialing plan is required when the dialing plan area code has interchangeable

 Enter the actual Equal Access or OCC digits to be recognized and ignored.

106 Program—OCC Authorization Code Length #2

Informs the system of the number of digits in the second OCC Authorization Code. These digits are also ignored for Toll Restriction purposes when an outgoing call is made over an OCC.

• Enter the number of digits in the authorization code.

NOTES (these notes are appropriate for Programs 103 \sim 106:

- 1. Enter the equal access code or Other Common Carrier directory number (5 digits: 10XXX, $X = 0 \sim 9$).
- 2. Enter the number of digits in the OCC Authorization Code (00 \sim 99).
- 3. Caution: Do not program more digits than required because toll restriction may be defeated.

108 Program—Toll Restriction Override Code #1

Registers the first of two codes that override toll restriction on outgoing calls.

• Enter the four digits of the first toll restriction override code.

109 Program—Toll Restriction Override Code #2

Registers the second of two codes that override toll restriction on outgoing calls.

• Enter the four digits of the second toll restriction override code.

1X0 Program—Toll Restriction Class Parameters ($X = 1 \sim 4$)

This program defines parameters for each class of toll restriction ($X=1\sim4$). There are four classes of toll restriction available on a station-by-station basis. (See **Program 6XX** to select the station class of toll restriction.) This program is required only if 3- or 6-digit toll restriction is desired.

- Mark an X next to the LED for each parameter of each toll restriction class used.
 - O2: All restricted area codes plus the office code of 555 are allowed, including out-of-area directory assistance calls (e.g., 213 + 555 + 1212).

- Overseas operator or unassisted overseas calls are to be restricted (01/011).
- **00:** Operator or operator-assisted calls are used to be restricted (0).

1XY Program—Toll Restriction Class Area Code Entry (X = Class 1 \sim 4) [Y = allow (2), deny (3) or display (4)]

This program defines the area codes allowed or denied for each toll restriction class. This program is required only if 3- or 6-digit toll restriction is desired. Each class area code table can be defined as an allow (2) or deny (3) table. Initialized data allows all area codes for each class. All allowed area codes can be displayed (4) for each class. For Toll Restriction Class 1, enter all allowed area codes in the upper section of the record sheet and all denied area codes in the lower section. Make additional copies of the record sheet for Toll Restriction Classes 2, 3 and 4.

1XZ Program—Toll Restriction Class Office Code Entry (X = Class 1 \sim 4) [Z = allow (6), deny (7) or display (8)]

This program defines the office codes allowed or denied for each toll restriction class within the home area code. Entry to this program is required only if 3- or 6-digit toll restriction is desired. Each class office code table can be defined as an allow (6) or deny (7) table. Initialized data allows all office codes in the home area code for each class. All allowed office codes can be displayed (8) for each class. See the detailed programming chart for office code entry procedures.

2XY Program—Toll Restriction Area/Office Code Exception Table

Entry to this program is required only if 6-digit (area/office code) toll restriction is desired. There are eight area/office code exception tables available that are defined by X (1 ~ 8). Each table may have one area code and up to 800 office codes entered. The area code is entered when Y = 1 for each table, while office codes are added (Y = 2) or deleted (Y = 3) for each table. All office codes in the table are displayed when Y = 4. Each area/office exception table selected with **Program 1X1** will be an exception (opposite) to the allow (**Program 1X2**) or deny (**Program 1X3**) area code table for each

toll restriction class. See the detailed programming chart for area code and office code entry procedures. The examples below are provided for additional information.

- 1) Normal restriction for stations in Class 1 (allow all office codes within an area code).
 - Program 1XY is programmed to allow (112) area code 213. Class 1 stations are allowed to dial all office codes in area code 213.
- 2) Area/office code exception (allow all office codes within an area code except one) for stations in Class 1.
 - Program 1XY remains the same (112).
 - Program 1X1 has area/office code exception Table 1 (INT) selected (111).
 - Program 2XY (211 and 212) are programmed for area code 213 (212) and office code 635 also (211). Class 1 stations are allowed to dial all office codes in area code 213 except 635.

1X1 Program-Toll Restriction Class Area/ Office Code Exception Table Selection (X = Class $1 \sim 4$

Entry to this program is required only if 6-digit (area/office code) toll restriction is desired. There are eight area/office code exception tables available. These exception tables are shared by all four classes of toll restriction. Each class may use any one or all exception code tables. When an exception code table is selected for a toll restriction class, the dialed area code and office code in that table will be an exception to the normal restriction of that area code. See the examples following Program 2XY.

• Mark an X next to the LED of each area/ office code exception table (1 \sim 8/00 \sim 07) to be selected for each toll restriction class.

03.30 Least Cost Routing Assignments

1#00 Program—Home Area Code

1) Enter the system's 3-digit home area code.

1#0X Program—LCR Special Codes (X = 1 \sim 5)

Five special codes may be entered.

1) Enter each individual special code. Example: 911

1#06 Program-LCR Parameters (WNT, DT. LDI)

- 1) Mark an X next to 02 if a warning tone is required when the most expensive route is selected by the LCR software. Leave blank if not required.
- 2) Mark an X next to 01 if dial tone is required after dialing the access code. Leave blank if not required.
- 3) Mark an X next to 00 if long distance route information (555) will be allowed. Leave blank if not allowed.

1#07X Program—Select Long Distance Information Route (X = 1 ~ 8)

1) Enter the route table number (1 \sim 8) that the system must use for long distance information calls.

1#08X Program-Select Local Call Route (X $= 1 \sim 8$

1) Enter the route table number (1 \sim 8) that the system must use for local calls.

1#09 Program-Dlal "0" Timeout

Selects the timeout between 0 and the telephone number during dialing.

- 1) Mark an X next to 03 for 10 seconds delay.
- 2) Mark an X next to 02 for 8 seconds delay.
- 3) Mark an X next to 01 for 6 seconds delay.
- 4) Mark an X next to 00 for 4 seconds delay. NOTE:

Only one choice is allowed.

1#XY Program—Area Code Table (X = Route Table 1 \sim 8) [Y = Set(2), Delete (3) or Display (4)1

This program defines the area codes to add or delete for each route table.

- 1) Enter all area codes to be added to Table X.
- 2) All area codes may be displayed with Y = 4. To step through the codes, depress the # key repeatedly.

1#X8Y Program-LCR Route Definition (X = Route Table 1 ~ 8) (Y = Route Definition 1

1) Enter 2-digit number. The first digit is is a

trunk group 1 \sim 8 (refer to **Programs 091** \sim **098**). The second digit is the number of the modified digit table to be assigned to this program.

$1#X50 \sim 53$ Program—LCR Route Table, Start Time A Schedule

This program will define the following areas:

- Route Table Number
- Start Time
- Priority Class
- Route Definition
- 1) Enter the 4-digit start time (24-hour clock) for each route table (**Program 1#X50**).

NOTE:

Start Time "B" is the stop time for "A" Start Time "C" is the stop time for "B" Start Time "A" is the stop time for "C"

Select the priority class required (Programs 1#X51 ~ 53). Enter the route group numbers (1 ~ 4) required (refer to Program 1#8XY).

NOTE:

If a table is to be used 24 hours a day, the Schedule B Start Time must be the same as Schedule A Start Time.

$1\#X60 \sim 63$ Program—LCR Route Table, Start Time B Schedule

This program will define the stop time for a previously selected start time and/or the start time for another period.

1) The procedure is the same as in **Program** $1\#X50 \sim 53$.

1#X70 ~ 73 Program—LCR Route Table. Start Time C Schedule

 The information and procedure are the same as Program 1#X50 ~ 53.

1#XY Program—Modified Digits Table (X = Modified Digits Table 1 \sim 6) [Y = Delete Digits (0), Add Digits (1)]

1) Delete digits = 0 \sim 10. Add digits = 0 \sim 22.

NOTES:

1. The quantity of digits that will be deleted from the digits dialed (deletion starts with the first digit).

- 2. A maximum of 22 digits may be added to the digits dialed via these tables. Pauses may also be inserted between digits added by depressing the appropriate keys (00 ~ 08) when the pause is required (a pause is counted as two digits).
- 3. Enter pauses in 2-second increments: 2 ~ 16.
- 2) Enter the modified digits in the appropriate tables.

2#XY Program—LCR Area/Office Code Exception Table (X = Area/Office Code Exception Table 1 ~ 8) [Y = Route Table Number (0), Area Code (1), Office Code Allowed (2), Office Code Delete (3), Office Code Display (4)]

This table defines the route table that office codes in a specified area code will use.

- 1) Enter Area/Office Code Table number (1 \sim 8).
- 2) Enter the Route Table number required (1 \sim 8).
- 3) Enter the Area Code required (Y = 1).
- 4) Enter the Office Codes allowed (Y = 2).
- 5) Enter the Office Codes deleted (Y = 3).
- 6) Allowed Office Codes may be displayed (Y =

03.40 Station Assignments

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 does not have key or LED functions for that CO line and cannot seize that line by dialing an access code.

Selections must be repeated for all stations
 —mark an X next to each CO key/LED that
 is to be accessed by the station in question.
 LEDs 01 ~ 17 represent the CO lines (see
 Paragraph 02.10).

3#XX Program—HOXB, HMDB, HTIB and HIOB Module Enable

Seven choices are enabled by this program.

- Mark an X next to 07 if voice mail is connected to the HIOB. Leave blank if voice mail is not connected.
- 2) Mark an X next to 06 if the telephone or device connected to the HIOB is to use DTMF dialing. Leave blank if dialing is to be from rotary device (telephone).
- 3) Mark an X next to 04 if this station is to be a modem phone (HMDB). Leave blank if not equipped.
- 4) Mark an X next to 03 if this station is to be an HIOB module. Leave blank if not equipped.
- 5) Mark an X next to 02 if the unused OPX station is to show busy. Leave blank if it is not to show busy.
- 6) Mark an X next to 01 if an HOXB or HTIB is connected to the station. Leave blank if the station is not equipped with an HOXB or HTIB.
- Mark an X next to 00 if the telephone or device connected to the HIOB is to have privacy. Leave blank if privacy is not required.

NOTES:

- 1. For TIE lines, see Program 0#2.
- 2. TIE lines and OPXs are assigned in pairs (even/odd). Example: 18/19, 20/21, etc.
- 3. To assign an even OPX/TIE line, mark an X next to 01.
- 4. If an odd OPX/TIE line is not used, busy it out and mark an X next to 02.

4XX Program—Station Type Assignment

NOTE:

When programming, always do Program 4XX before Program 4#XX. If Program 4XX is programmed after 4#XX, the stations' flexible key assignments will be reset to the default data.

Informs the system of the EKT type being used at each station and the order of CO line appearance. The selections listed below must be repeated for each station. In all cases, mark an X where required.

1) Mark an X next to 16 if you want the first CO line number to be CO19 (location depends on the selection at 09).

- 2) Mark an X next to 15 if you want the first CO line number to be CO16 (location depends on the selection at 09).
- Mark an X next to 14 if you want the first CO line number to be CO13 (location depends on the selection at 09).
- 4) Mark an X next to 13 if you want the first CO line number to be CO10 (location depends on the selection at 09).
- 5) Mark an X next to 12 if you want the first CO line number to be CO7 (location depends on the selection at 09).
- 6) Mark an X next to 11 if you want the first CO line number to be CO4 (location depends on the selection at 09).
- 7) Mark an X next to 10 if you want the first CO line number to be CO1 (location depends on the selection at 09).
- 8) Mark an X next to 09 if the CO lines are to be assigned from top to bottom (descending order). If 09 is left blank, CO lines are assigned bottom to top (ascending order).
- 9) Mark an X next to 07 if 20-key pattern C is desired (see Figure 2).

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Start	@ CO1	ĺ	Start	@ CO4		Start	@ CO7		Start	@ CO10
09	MW/FL		12	MW/FL		15	MW/FL	l	18	MW/FL
10	DND		13	DND		16	DND		19	DND
11	01		14	04	Ì	17	07	ı	20	10
12	02		15	05		18	08	ı	21	11
13	03		16	06		19	09_	1	01	12
14	04		17	07		20	10		02	13
15	05		18	08		21	11		03	14
16	06		19	09		01	12		04	15
17	07		20	10		02	13		05	16
INT	08		INT	11		INT	14		INT	17
Start	Start @ CO 13			@ CO16		Start	@ CO19	Ì		
21	MW/FL		03	MW/FL		06_	MW/FL			
01	DND		04	DND		07	DND			
02	13		05	16		08	19	l		
03	14		06	17		09	20			
04	15		07	15		10	21			
05	16		08	19		11	01			
06	17		09	20		12	02			
07	18	١	10	21		13	03			
08	19]	11	01		14	04	١		
INT	20	ļ	INT	02	}	INT	05			

FIGURE 2—EKT KEY PATTERNS

- 10) Mark an X next to 06 if 20-key pattern B is desired (see Figure 2).
- 11) Mark an X next to 05 if 20-key pattern A is desired (see Figure 2).
- 12) Mark an X next to 03 if a single-line EKT (with or without MW LED) is equipped.
- 13) Mark an X next to 01 if a 10-key EKT or a single-line EKT with MW LED is equipped.
- 14) Mark an X next to 00 if a 20-key EKT is equipped.

4#XX Program—Station Flexible Key Assignments

NOTE:

Do this after Program 4XX.

Informs the system of the features that are assigned to the flexible keys at each station.

Any key (except INT) may be assigned a feature code (Figure 3). All assigned feature codes have priority over **Program 4XX** assignments. For each key on every station, write in the name or code for each feature to be assigned.

NOTES:

1. A feature (code) may be assigned to one key only, except for Automatic Dialing (AD) keys. A feature will be rejected if you try to enter it at another key once its code has been entered. Rejected assignments will default to AD keys.

- 2. A locked \triangle key is assigned to a system auto-dial location (60 \sim 99). DSS key is assigned to a specific station (10 \sim 41 on XII_e; 10 \sim 65 on XX_e). A modem key is assigned to the station associated with a modem phone. The modem phone's assignment is station XX.

5XX Program-Station Class of Service #1

Fifteen options are selected with this program, using the various 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 required.

1) Privacy Override—mark an X next to 17 if the station is allowed the Privacy Override feature. Allows an override (break-in) when a CO key is depressed with the CO LED on steady. Both parties can hear an override tone.

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 are allowed to use this feature; the others are ignored.

CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
01	CO1	15	CO15	67	Pooled Line Gp 7	85	SAVE key
02	CO2	16	CO16	68	Pooled Line Gp 8	87	CFD key
03	CO3	17	CO17	70	ABR key	88	MCO key
04	CO4	18	CO18	71	DL1 key	90	TONE key
05	CO5	19	CO19	72	DL2 key	93	PRV key
06	CO6	20	CO20	73	DIE key	94	ACB key
07	CO7	21	CO21	74	DL4 key	95	PAU key
08	CO8	*	AD key	78	MM / MA key	96	RDL key
09	CO9	61	Pooled Line Gp 1	79	ANS / CALL key	97	REP key
10	CO10	62	Pooled Line Gp 2	80	MODM key	98	DND key
11	CO11	63	Pooled Line Gp 3	81	MSG key	99	MW/FL key
12	CO12	64	Pooled Line Gp 4	82	CPU2 key	#YY	DSS key
13	CO13	65	Pooled Line Gp 5		CPU1 key	*ZZ	Locked AD key
14	CO14	66	Pooled Line Gp 6		CPU key		

FIGURE 3—FLEXIBLE KEY ASSIGNMENTS

- 2) DND Override—mark an X next to 16 if the station is allowed the DND Override feature.
- 3) Executive Override (Dial 3)—mark an X next to 15 for stations that are allowed the Executive Override feature. (No limit to the number of stations.)
- 4) Off-hook Call Announce—mark an X next to 13 if off-hook call announce is to be enabled. Leave blank if it will not be enabled.
- 5) Off-Hook Call Announce Dial 2—mark an X next to 12 if dialing 2 is required for off-hook call announce. Leave blank if off-hook call announce is automatic.

NOTE:

LED 12 applies to the station originating OCA and LED 13 applies to the station receiving OCA.

- 6) Group Page 4—mark an X next to 09 if the station is included in Group Page 4.
- 7) Group Page 3—mark an X next to 08 if the station is included in Group Page 3.
- 8) Group Page 2—mark an X next to 07 if the station is included in Group Page 2.
- 9) Group Page 1-mark an X next to 06 if the station is included in Group Page 1.
- 10) All Call Page —mark an X next to 05 if the station is included in an All Call Page.
- 11) Warning Tone Disabled—mark an X next to O4 if no warning tone will be heard when dialing this station. Leave blank if a warning tone will be heard at the called station.
- 12) Handsfree Answerback Disabled—mark an X next to 03 if Handsfree Answerback is to be disabled at the station. Leave blank if it is not to be disabled (see MCC key feature).
- 13) MIC ON—mark an X next to 02 if the microphone and LED is to be ON at the start of a call. LED 01 (MIC) key lock) must be on for this feature to function. Leave blank if the microphone on the EKT is to be OFF.
- 14) MC Key Lock—mark an X next to 01 if the MC key is to be operated in the push-on/push-off mode. Leave blank if momentary operation is required.
- 15) Speakerphone Enabled-mark an X next to

00 if the station is allowed to use the Speakerphone feature.

5#XX Program—Station Class of Service #2

Fifteen additional Class of Service features are selected with this program, using the various 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 required.

- 6000 LCD/2000 LCD—mark an X next to 17 if an alphanumeric (6000-series) LCD EKT is used. Leave blank if using a nonalphanumeric (2000-series) LCD EKT.
- 2) Station-to-Station Message Waiting with LCD Display—mark an X next to 16 if the station is allowed the Station-to-Station Message Waiting with LCD feature.
- 3) Speed Dial Memo—mark an X next to 15 if this station is allowed Speed Dial Memo. Leave blank if not allowed.

NOTE:

This feature is limited to 16 stations. The system initializes with this feature on stations $10 \sim 25$.

- 4) Forced Account Code—mark an X next to 14 if this station is required to use an account code on CO lines programmed to forced account codes (see Program 102).
- 5) Toll Restriction Override Code—mark an X next to 13 if this station is allowed to change the Toll Restriction Override code. Leave blank if not allowed. (See Toll Restriction Access Code.)
- 6) Hold Recall Time—referring to Table 1, mark an X next to the combination of 12, 11 and 10 that corresponds to the recall time desired for each station. If all locations are left blank, the timing for that station will default to that set in **Program 05**.

TABLE 1
HOLD RECALL TIME CODE

KEY/LED	16 sec	32 sec.	48 sec.	64 sec.	96 sec.	128 sec.	160 sec.
12				Х	Х	X	Х
11		X	Х			Χ_	X
10	Х		Х		Х		X

- Automatic Busy Return Access Code—mark an X next to 09 if this station is allowed the Automatic Busy Return feature. Leave blank if it is not allowed.
- 8) Mark an X next to 07 if automatic off-hook selection is to be CO line Group 94* (defaults to 9 if Single CO Line Group was selected in Program 01).
- 9) Mark an X next to 06 if automatic off-hook selection is to be CO line Group 93* (defaults to 9 if Single CO Line Group was selected in Program 01).
- 10) Mark an X next to 05 if automatic off-hook selection is to be CO line Group 92* (defaults to 9 if Single CO Line Group was selected in **Program 01**).
- 11) Mark an X next to 04 if automatic off-hook selection is to be CO line Group 91* (defaults to 9 is Single CO Line Group was selected in **Program 01**).

*NOTE:

If a line in a group is ringing on a station, that line will be selected.

- 12) Mark an X next to 03 if automatic off-hook selection is to be the CO line assigned to the 01 position.
- 13) Mark an X next to 02 if automatic off-hook selection is to be INT.

NOTE:

In Program 01, if 15 is left blank, items 5, 6, 7 and 8 above will default to Dial 9. Item 9 has priority over items 5, 6, 7 and 8; item 10 has priority over items 5, 6, 7, 8 and 9

- 14) Ringing Line Preference—mark an X next to 01 if the station is allowed the Ringing Line Preference feature.
- 15) Automatic Dialing Allowed—mark an X next to 00 if the station is allowed the Automatic Dialing feature.

6XX Program—Station Toll Restriction Classification/LCR Priority Selection

Defines Toll Restriction and Least Cost Routing Priority Selection for individual stations. Selections must be made for each station, as follows:

- Mark an X next to 12 if this station is assigned Least Cost Routing Class 3. (This allows LCR to choose the routes in class 3 only.)
- Mark an X next to 11 if this station is assigned Least Cost Routing Class 2. (This allows LCR to choose the routes in classes 2 and 3.)
- 3) Mark an X next to 10 if this station is assigned Least Cost Routing Class 1. (This allows LCR to choose which of the three classes has the best route.)
- 4) Digit Free/Restrict—mark an X next to 07 if this station is not restricted as to the number of digits that may be dialed. Leave blank if digit restriction is in effect.

NOTE:

If digit restriction is in effect, the station will be allowed to dial the number of digits allowed by its toll restriction, and NO additional digits.

- 5) Mark an X next to 06 if Toll Restriction Class 4 is in effect at this station.
- 6) Mark an X next to 05 if Toll Restriction Class 3 is in effect at this station.
- 7) Mark an X next to 04 if Toll Restriction Class 2 is in effect at this station.
- 8) Mark an X next to 03 if Toll Restriction Class 1 is in effect at this station.

NOTE:

Programs 100, 1X1, 1XY, 1XZ and 2XY define and modify Toll Restriction classes and operation.

- 9) Mark an X next to 02 if this station will be restricted from dialing or as the first or second digit. This entry overrides any Toll Restriction Class assigned to this station.
- 10) Mark an X next to 01 if the station will be allowed to dial 1 + 7-digit number. This entry overrides any Toll Restriction Class assigned to this station.
- 12) Mark an X next to 00 if this station will not be restricted. This entry overrides all other Toll Restriction programming.

6#XX Program-Station-to-Station Hunting

Defines the station hunt destination if the called station is busy.

• Enter the station number of the hunt destination next to the station number called.

7XX Program—Station Outgoing Call Restriction

Restricts a station from outgoing access to any number of CO lines, but leaves 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 each station.

81XX ~ 83XX Programs—CO Ringing Assignments-DAY

Selects which CO lines ring at a given station when the system is in the DAY mode. Mark an X next to each CO line that is to ring at the station during the DAY mode.

- Program 81XX selects immediate ringing.
- Program 82XX selects 12-second delayed ringing.
- Program 83XX selects 24-second delayed ringing.

$84XX \sim 86XX$ Programs—CO Ringing Assignments-DAY 2

Selects which CO lines ring at a given station when the system is in the DAY 2 mode. Mark an X next to each CO line that is to ring at the station during the DAY 2 mode.

- Program 84XX selects immediate ringing.
- Program 85XX selects 12-second delayed ringing.
- Program 86XX selects 24-second delayed ringing.

87XX ~ 89XX Programs—CO Ringing Assignments-NIGHT

Selects which CO lines ring at a given station when the system is in the NIGHT mode. Mark an X next to each CO line that is to ring at the station during the NIGHT mode.

- Program 87XX selects immediate ringing.
- Program 88XX selects 12-second delayed ringing.
- Program 89XX selects 24-second delayed ringing.

NOTE:

If a CO line is to have the call forward feature, it must be programmed to ring on one station only per ringing assignment program.

9#XX Program—Door Phone Ringing Assignments

Selects which door phones ring at a given station. Selections must be made for each station.

- Mark an X next to 11 if the door phone connected to door phone control box output 16C is to ring this station. Leave blank if the door phone will not ring this station.
- 2) Mark an X next to 10 if the door phone connected to door phone control box output 16B is to ring this station. Leave blank if the door phone will not ring this station.
- 3) Mark an X next to 09 if the door phone connected to door phone control box output 16A is to ring this station. Leave blank if the door phone will not ring this station.
- 4) Mark an X next to 08 if the door phone connected to door phone control box output 15C is to ring this station. Leave blank if the door phone will not ring this station.
- 5) Mark an X next to 07 if the door phone connected to door phone control box output 15B is to ring this station. Leave blank if the door phone will not ring this station.
- 6) Mark an X next to 06 if the door phone connected to door phone control box output 15A is to ring this station. Leave blank if the door phone will not ring this station.
- 7) Mark an X next to 05 if the door phone connected to door phone control box output 14C is to ring this station. Leave blank if the door phone will not ring this station.
- 8) Mark an X next to 04 if the door phone connected to door phone control box output 14B is to ring this station. Leave blank if the door phone will not ring this station.
- 9) Mark an X next to 03 if the door phone connected to door phone control box output 14A is to ring this station. Leave blank if the door phone will not ring this station.
- 10) Mark an X next to 02 if the door phone connected to door phone control box output 13C is to ring this station. Leave blank if the door phone will not ring this station.
- 11) Mark an X next to 01 if the door phone con-

nected to door phone control box output 13B is to ring this station. Leave blank if the door phone will not ring this station.

12) Mark an X next to 00 if the door phone connected to door phone control box output 13A is to ring this station. Leave blank if the door phone will not ring this station.

*X# Program—Flexible Access Code Number-ing

Allows the first digit of the following access codes to be changed to be compatible with a flexible numbering plan:

- Door Phone/Monitor Station—66 ~ 68, 661
 ~ 673
- CO Line Dial Selection—7XX
- Paging—80 ~ 89
- Trunk Group—9, 91 ~ 98
- Least Cost Routing-9

Enter the new *first* digit of the access code to be changed as desired. Ensure there are no numbering plan conflicts for proper operation.

Example:

Entering 10 11 21 changes the Door Phone/ Monitor Station access codes from 66, 67 and 68 to 46, 47 and 48, respectively.

*XX Program—Flexible Intercom Numbering

Changes the system intercom number (2-digit) to a new intercom number (1 \sim 4 digits). Enter the new intercom number in the New Intercom Number column next to the system intercom number to be changed. Ensure there are no numbering plan conflicts for proper operation.

Example:

Entering 1125012 changes station 12's intercom number to 5012.

#1XX*YY Program—Optional Programming

Using the system record sheets, record each speed dial number to be programmed in the system and station automatic dialing locations.

NOTES:

- 1. Use one record sheet per station, so make enough copies to cover every station in the system.
- 2. Stations may program their individual auto dial numbers, while only station 10 can program system auto dial numbers.

TABLE LIST

Table	Title	Program	Page
3	System Data Printout Selection Codes	_	27
4	Speed Dial Memory Printout Selection Codes	_	27
5	System Assignments (Basic)	01	34
6	Door Phone Selection	0#1	35
7	System Assignments (Options)	02	36
8	Account Code Digit Length and TIE Line/OPX Selection	0#2	37
9	System Assignments (Options)	03	38
10	CO Line Outpulsing Selection	04	39
11	CO Line Identification	#4	40
12	Automatic Recall From Hold Timing	05	41
13	Camp-on Timeout	0#5	42
14	AROH Enable	06	43
15	Trunk-to-Trunk Connection Enable	0#6	44
16	AROH Timing	07	45
17	1A2 Interface	0#7	46
18	Tenant Service Selection	08	47
19	Night Ringing Over External Page	0#8	48
20	Single CO Line (Dial 9) Group Selection	09	49
21	CO Line (Dial 91 ~ 98) Group Assignments	09X	50
22	Off-Premises Line Hunting	0#9	51
23	PBX Backup	190	52
24	PBX Access Codes	19X	53

TABLE LIST (continued)

Table	Title	Program	Page
25	Toll Restriction System Parameters	100	54
26	Toll Restriction Disable	101	55
27	Forced Account Code Check	102	56
28	Other Common Carrier (OCC) or Equal Access #1 & #2	103/105	57
29	OCC Authorization Codes #1 & #2	104/106	58
30	Toll Restriction Override Code #1 & #2	108/109	59
31	Toll Restriction Class Parameters	1X0	60
32	Toll Restriction Class Area Code Entry	1XY	61
33	Toll Restriction Class Office Code Entry	1XZ	62
34	Toll Restriction Area/Office Code Exception Table	2XY	63
3 5	Toll Restriction Class Area/Office Code Exception Table Se-		
33	lection	1X1	64
36	Least Cost Routing Home Area Code	1#00	65
37	Least Cost Routing Special Codes	1#0X	66
38	Least Cost Routing Parameters	1#06	67
39	Select Long Distance Information Route	1#07X	68
40	Select Local Call Route	1#08X	69
41	Dial Zero (0) Timeout	1#09	7 0
42	Least Cost Routing Area Code Table	1#XY	7 1
43	Least Cost Routing Route Definition	1#X8Y	72
44	Start Time A Schedule	1#X50 ~	
44	Start Time A Schodule	53	73
45	Start Time B Schedule	1#X60 ~	
45	Start Time B Concusio	63	74
46	Start Time C Schedule	1#X70 ~	
40	Start Time & Schodale	73	75
47	Modified Digits Table	1#9XY	76
48	LCR Area/Office Code Exception Table	2#XY	77
49	Station CO Line Access	3XX	78
50	HOXB, HMDB, HTIB and HIOB Module Enable	3#XX	79
51	Station Type Assignment	4XX	80
52	Station Flexible Key Assignments	4#XX	81
53	Station Class of Service #1	5XX	82
54	Station Class of Service #2	5#XX	83
55	Station Toll Restriction/LCR Classification	6XX	84
56	Station-to-Station Hunting	6#XX	85
57	Station Outgoing Call Restriction	7XX	86
58	CO Ringing Assignments—DAY/DAY 2/NIGHT	81XX ~	
56	CO minging mongrithenic Drivi Drivi Drivi Drivi	89XX	87
59	Door Phone Ringing Assignments	9#XX	88
60	Flexible Access Code Numbering	*X#	89
61	Flexible Intercom Numbering	*XX	90
62	Optional Programming	#1XX*YY	91
~~	Optional i rogramming		

04 PROGRAMMING PROCEDURES

04.00 Initialization

04.01 A list of standard system data assignments (stored in ROM) can be entered any time by initializing the system. The system must be

initialized when it is first installed or whenever the HCAU is changed. This allows the system to be tested and any faults corrected before time is spent on programming. Standard data assignments are listed in Table 2 in Paragraph 04.10. (However, if a system is initialized after user-

programmed data has been stored, all user data will be lost.)

04.02 To initialize the system data memory, temporaryily connect a 20-key EKT to the MDF at station 17 and perform the following:

NOTE:

Verify that the battery on the HCAU is connected to ensure that data entered after system initialization is not lost due to power failure. (The SET LED cannot function if the battery is not connected.)

- 1) Place the system power switch in the **ON** position.
- 2) Depress the INT switch on the HCAU, and hold it in.
- 3) Depress the SET switch and allow it to lock.
 - SET LED goes on.
 - Station 17: All LEDs (except SPKR & MIC) blink continuously.
- 4) Depress and release the SET switch again.
 - SET LED goes off.
 - Station 17: LEDs go off.
- 5) Release the INT switch.
- 6) Cycle the power switch OFF (the HPSU +5V and power LEDs must go out) and ON.

04.10 Clearing Automatic Dialing

04.11 The Automatic Dialing memory contains random numbers when the system is powered up initially. The memory, therefore, must be cleared to prevent meaningless numbers from being dialed.

IMPORTANT!

Station 17 may be equipped with either a 10- or a 20-key EKT. Prior to performing the procedure that follows, refer to Paragraph 02.30, Programming Procedures, Section 500-020-300, for instructions on using a 10-key EKT for programming.

- 04.12 To clear the Automatic Dialing (-System and -Station) memory (up to 40 numbers), proceed as follows:
- 1) Lock in the SET switch on the HCAU.
 - Station 17: LED 19 lights steadily.
- 2) To clear codes 10 \sim 33, depress the SPKR key and dial \blacksquare 1.

- SPKR LED flashes continuously.
- Depress keys 01 05 09 13.
- Depress the HOLD key.
- 3) To clear codes 34 ~ 57, depress the SPKR key and dial # 2.
 - SPKR LED flashes continuously.
 - Depress keys 02 06 10 14.
 - Depress the HOLD key.
- 4) To clear codes 58 ~ 99, depress the SPKR key and dial # 28.
 - SPKR LED flashes continuously.
 - Depress keys 03 07 11 15.
 - Depress the **HOLD** key.
- 5) Release the SET switch on the HCAU:
 - The SET LED and LED 19 on station 17 go off.

04.20 Alphanumeric Messaging Initialization

NOTE:

There are 40 messages available in system memory (60 \sim 99), and 10 available at each station (10 \sim 19).

- **04.21** To initialize system alphanumeric messages, follow these procedures:
- 1) Lock in the SET switch on the HCAU.
 - Station 17: LED 19 lights steadily.
- 2) To clear codes 60 ~ 99, depress the SPKR key and dial # 1 1.
 - SPKR LED flashes continuously.
 - Depress keys 00 04 08 12.
 - Depress the **HOLD** key.
- **04.22** To initialize station alphanumeric messages, follow these procedures:
- 1) Lock in the SET switch on the HCAU.
 - Station 17: LED 19 lights steadily.
- 2) To clear codes 10 \sim 19, depress the SPKR key and dial # \blacksquare 5.
 - SPKR LED flashes continuously.
 - Depress keys 01 05 09 13.
 - Depress the **HOLD** key.

NOTE:

System messages can only be programmed or changed at station 10. When the system is initialized, five messages are automatically stored in memory:

61: IN A MEETING

62: CALL

63: BACK AT

64: RETURN ON

04.30 Timer Reminder Messaging Initialization

- **04.31** To clear Timer Reminder messages, follow these procedures:
- 1) Lock in the SET switch on the HCAU.
 - Station 17: LED 19 lights steadily.
- 2) To clear timer codes, depress the SPKR key and dial # 17.
 - SPKR LED flashes continuously.
 - Depress keys 03 07 11 15.
 - Depress the **HOLD** key.

04.40 System Real-Time Clock/Calendar Adjustment

04.41 The following procedures detail how to set the date, time and day in the system.

NOTE:

This operation is possible from station 10 only.

- 1) Handset on-hook.
- 2) To set date:
 - a) Dial # 5 1 (or RDL REP 5 1).
 - b) Dial in date (year/month/day) in the format YYMMDD. Enter a leading 0 for singledigit month and day.
 - c) Depress the (or RDL) key.
- 3) To set time:

a) Dial # 9 5 2 (or RDL REP 5 2).

- b) Dial in time (hour/minute/second) in 24-hour clock format HHMMSS. Enter a leading 0 for single digit.
- c) Depress the # (or RDL) key.
- 4) To set day:
 - a) Dial # 2 5 3 (or RDL REP 5 3).
 - b) Dial in the day (1 represents Sunday, 2 Monday, etc., through 2 for Saturday).
 - c) Depress the # (or RDL) key.

04.50 System Data Entry

- **04.51** System data is entered via station 17 while the system is in the programming mode.
- 04.52 The system is placed in the programming mode and data is entered as follows:
- 1) Depress the **SET** switch on the HCAU and allow it to lock.
 - SET LED lights.
 - 19 LED on station 17 goes on.
- Refer to the System Record Sheet (Appendix 1) for data to be entered and/or changes that must be made.
- 3) Select the required program number.
- Refer to the proper programming table for detailed procedures for using each different program.

NOTE:

Each program should be accomplished sequentially until all necessary changes are made.

TABLE 2

INITIALIZED DATA

SYSTEM ASSIGNMENTS

01 Program System Assignments (Basic)

Alternate Point Answer of Transferred CO Line = Allowed
System Speed Dial Override of Toll Restriction = Not allowed
CO Line Groups = 1 (dial 9)
Two CO Line Conferencing = Allowed
DP Make Ratio = 40%

MF Signal Time = 80 ms
Privacy/Non-Privacy = Privacy
Station 17 = 20-key EKT
Incoming Call Abandon = 6 seconds
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

TABLE 2—INITIALIZED DATA (continued)

0#1 Program

Door Phone Selection

None Selected

02 Program
System Assignments (Options)

Tandem Switching = EKT 28 ~ 33 selected Stations 18/19 Amplified Conference = No Amplified Conference

ACB Warning Tone = No time

Display Dialed Number Timeout = 15 seconds Night Ringing = Excluded from External Page Background Music = Excluded from External Page

External Page = Not included in All Call Page

O#2 Program
Account Code Digit Length and TIE Line/OPX
Selection

Repeat Ring = Normal ABR Ring Time = 1 minute Modem Speed = 300 bps Stations 22/23 = OPX Stations 20/21 = OPX Station 22/23 = Tone first Station 20/21 = Tone first

03 Program
System Assignments (Options)

Station 10 Alarm Key = AD1
Station 10 DND/NT (Night) Key = NT key
Ringing Modes = 2
Tenant Service = Not equipped

Tenant Service = Not equipped
Tone First/Voice First = Voice First

Message Center—Station 12 = Not equipped Message Center—Station 11 = Not equipped Message Center—Station 10 = Equipped

DSS 2 Station 11 = Not equipped DSS 1 Station 10 = Not equipped

04 Program
CO Line Outpulsing Selection

DTMF = Equipped

#4 Program
CO Line Identification

None

05 Program
Automatic Recall From Hold Timing

)

ļ

32 Seconds

0#5 Program Camp-on Timeout

32 Seconds

06 Program
Automatic Release On Hold Enable

Disabled = All CO lines

0#6 Program
CO Tandem Switching

CO Tandem Switching = Disable

07 Program
Automatic Release On Hold Timing

ESS Timing = All CO lines

0#7 Program
1A2 Interface

Not Assigned

08 Program
Tenant Service Selection

Tenant #1 = All CO lines

09, 09X Program
CO Line Group Selection

Dial 9 Group = All CO lines Dial 91 Group = All CO lines

0#9 Program
Off-Premises Line Hunting

No Hunting Assigned

190 Program PBX Backup

CO Operation = All CO lines unassigned

19X Program
PBX Access Codes

No Codes Assigned

TABLE 2—INITIALIZED DATA (continued) TOLL RESTRICTION ASSIGNMENTS

100 Program
Toll Restriction

System Parameters (Dialing Plan) AC + NNX 1 + O/C Selected

101 Program
Toll Restriction Disable

No Restriction = All CO lines

102 Program
Forced Account Code Check

No Check = All CO lines

103 Program
OCC or Equal Access #1

Blank

104 Program
OCC Authorization Code #1

Blank

105 Program
OCC or Equal Access #2

Blank

106 Program
OCC Authorization Code #2

Blank

1#00 Program
LCR Home Area Code

Blank

1#0X Program
LCR Special Codes

Blank

1#06 Program LCR Parameters

Blank

1#07X Program
Select Long Distance Information Route Table

Table Chosen = 8

108 Program
Toll Restriction Override Code #1

Blank

109 Program
Toll Restriction Override Code #2

Blank

1X0 Program

Toll Restriction Class Parameters

O1 or O11 = Allowed O + = Allowed AC + 555 = Not allowed

1XY Program
TR Class Area Code Entry

All Area Codes Allowed

1XZ Program
TR Class Office Code Entry

All Area Codes Allowed

2XY Program
Toll Restriction Area/Office Code Exception
Table

Blank

LEAST COST ROUTING ASSIGNMENTS

1X1 Program—Toll Restriction Class
Area/Office Code Exception Table Selection

None Selected

1#08X Program
Select Local Call Route

Table Chosen = 8

1#09 Program
Dial Zero (0) Timeout

6 Seconds

1#XY Program LCR Area Code Table

Blank

1#X8Y Program
LCR Select Trunk Group

Route Table = 1 Route Group = 1

TABLE 2—INITIALIZED DATA (continued)

1#X50 ~ 53 Program Start Time A Schedule

1#9XY Program Modified Digits Table

Blank

Table Chosen = P1

1#X60 ~ 63 Program Start Time B Schedule

2#XY Program
Area/Office Code Route Table

Blank

Table Chosen = 8

1#X70 ~ 73 Program Start Time C Schedule

Blank

STATION ASSIGNMENTS

3XX Program Station CO Line Access

Access Allowed = All lines, all stations

3#XX Program
HOXB, HMDB, HTIB and HIOB
Module Enable

Blank

4XX Program Station Type Assignment

20-key "A" Assigned = All stations CO1 Start = All stations

4#XX Program Station Flexible Key Assignment

Assignment = Basic keystrip

5XX Program Station Class of Service #1

Privacy Override = Not allowed, all stations DND Override = Not allowed, all stations Executive Override= Not allowed, all stations OCA = Disable OCA Connection = Automatic

Group Page 84 = Not included Group Page 83 = Not included

Group Page 82 = Not included Group Page 81 = Not included

All Call Page = Allowed, all stations

Room Monitor = Warning tone, all stations Handsfree Answerback = Not allowed, all stations

MIC ON/Idle Mode = OFF, all stations
MIC Key Lock = Momentary, all stations
Speakerphone = Allowed, all stations

5#XX Program Station Class of Service #2

6000 LCD/2000 LCD = 6000 LCD
Station-to-Station Message Waiting with LCD =
Allowed, all stations
Address Memo Memory = Enable
Forced Account Code = Not required, all stations
Toll Restriction Override Code = Not allowed, all

Hold Recall Time = Per **Program 05**Automatic Off-Hook Selection = No selection, all

Ringing Line Preference = Selected, all stations Automatic Dialing = Allowed, all stations

6XX Program Station Toll Restriction Classification

No Restrictions = All stations

6#XX Program Station-to-Station Hunting

No Selection = All stations

7XX Program Station Outgoing Call Restrictions

No Restrictions = All stations

81XX ~ 83XX Program CO Ringing Assignments-DAY

All Lines Ring Station 10

84XX ~ 86XX Program CO Ringing Assignments-DAY 2

No CO Ringing Assigned

TABLE 2—INITIALIZED DATA (continued)

87XX ~ 89XX Program CO Ringing Assignments-NIGHT

. . .

All Lines Ring Station 11

Blank

9#XX Program Door Phone Ringing Assignments

#1XX*YY Program Optional Programming

*XX Program

Flexible Intercom Numbering

Blank

Blank

*X# Program
Flexible Access Code Numbering

Access Code = System

05 SYSTEM DATA PRINTOUT

05.00 System Data Printout Via SMDR

- **05.01** If the system is equipped with Station Message Detail Recording (SMDR), 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 (HSMB module).
- **05.02** The data should be printed during a low traffic period since this procedure interferes with normal SMDR output. Any call records generated during a printout will be lost.
- **05.03** 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:

- All data
- Programs 0XX ~ 0#XX
- Programs 1XX
- Program 2XY
- Program 3XX
- Program 4XX
- Program 4#XX
- Program 5XX
- Program 5#XX
- Program 6XX
- Program 6#XX
- Program 7XX
- Programs 81XX ~ 89XX
- Program 9#XX
- Program *XX

Speed Dial Memory:

All data

- System list
- Any individual station list

05.04 To request a printout.

- 1) Depress the SET switch on the HCAU.
 - SET LED goes on.
 - Station 17 LED 19 goes on.
- 2) Depress the SPKR key on station 17.
 - SPKR LED goes on.
- 3) Dial ###.
 - The SPKR LED begins to flash.
- 4) LEDs 00 ~ 08 switch on and off in response to operation of the associated keys. Refer to Tables 3 and 4 and set the appropriate LEDs to the proper pattern for the printout required.
- 5) Depress the **HOLD** key.
 - All station 17 LEDs (except 19) go off.
 - Printout begins (see Figures 4 ~ 9 for examples of the printout format).
- 6) Normal SMDR operation resumes when the printout is complete.
- 7) Repeat from step 2 until all desired printouts are completed.
- 8) Release the SET switch on the HCAU.
- **05.05** To stop a printout before it is complete.
- 1) Depress the **SPKR** key on station 17.
 - SPKR LED goes on.
- 2) Dial ##.
 - SPKR LED stays on.
 - LEDs 00 ~ 08 light.

- 3) Depress the appropriate keys necessary to extinguish all LEDs but the SPKR.
- 4) Depress the HOLD key.
 - SPKR LED goes off.
 - After a short delay, the printout stops.
- 5) Normal SMDR functions resume.

TABLE 3
SYSTEM DATA PRINTOUT SELECTION CODES

	PROGRAM NUMBER														
LED	01 ~ 0#9	100 19X	2XY	1#XY	2#XY	зхх	з#хх	4XX	4#XX	5XX	5#XX	6XX	6#XX	7 XX	Print Out All
08	Х	Х	×	Х	Х	Х	Х	Х	Х	Х	X	X	X	X	Х
07	Х	Х	Х	Х	Х	X	X	X	X	Х	Х	Х	Х	Х	X
06	Х	X	X	X	Х	Х	Х	Х	X	X	Х	Χ	X	X	X
05	0	0	0	0	0	0	0	0	0	0_	0	0	0	0	0
04	0	0	0	X	X	0	Х	0	Х	0	X	0	Х	0	0_
03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Х
02	0	0	0	Ō	0	0	0	X	X	X	X	X	X	Х	X
01	0	0	X	0	X	Х	X	0	0	0	0	Χ	X	Х	X
00	0	X	0	Х	0	Х	Х	0	0	Х	Х	0	0	Х	X

LED on = X LED off = O

TABLE 3
SYSTEM DATA PRINTOUT SELECTION CODES
(continued)

		PROGRAM NUMBER											
LED	~	84XX 86XX	~	9#XX	*XX								
08	Х	X	X	X	X								
07	Х	Х	Х	X	X								
06	×	X	Х	X	Х								
05	0	0	0_	0	0								
04	0	Х	0	X	Χ								
03	Х	Х	Х	X	Х								
02	0	0	0	0	0								
01	0	0	0	0	Х								
00	0	0	Х	Х	Х								

LED on = X LED off = O

LED	SYS	10	11	12	13	14	15	16_	17	18	19
08	Х	Х	Х	Х	Х	Х	Х	Х	X	Х	Х
07	0	0	0	0	0	0	0	0	0	0	0
06	Х	0	0	0	0	0	0	0	0	0	0
05	Х	0	0	0	0	0	0	0	0	0	0
04	Х	Х	Х	Х	Х	X	Х	Х	Х	Х	Х
03	0	0	0	0	0	0	0_	0	0	X	Х
02	0	0	0	0	0	Х	Х	X	Х	0	0
01	0	0	0	Х	Х	0	0	X	Х	0	0
00	0	0	X	0	Х	0	Х	0	Х	0	<u>_x</u>

AUTO DIAL LISTS (Stations $20 \sim 29$)

LED	20	21	22	23	24	25	26	27	28	29
08	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
07	0	0	0	0	0	0	0	0	0	0
06	0	0	0	0	0	0	0	0	0	0
05	Х	X	Х	Х	Х	Х	Х	Х	Х	Х
04	0	0	0	0	0	0	0	0	0	0
03	0	0	0	0	0	0	0	0	X	Х
02	0	0	0	0	Х	Х	Х	Х	0	0
01	0	0	Х	Х	0	0	Х	Х	0	0
00	0	Х	0	Χ	0	Х	0	Х	0	Х

AUTO DIAL LISTS (Stations 30 \sim 39)

LED	30	31	32	33	34	35	36	37	38	39
08	Х	Х	Х	Х	Х	Х	Х	X	Х	Х
07	0	0	0	0	0	0	0	0	0	0
06	0	0	0	0	0	0	0	0	0	0
05	Х	Х	Х	Х	Х	Х	X	Х	Х	X
04	Х	Х	Х	Х	Х	Х	Х	Х	Х	X
03	0	0	0	0	0	0	0	0	Х	Х
02	0	0	0	0	Х	Х	Х	Х	0	0
01	0	0	Х	Х	0	0	Х	Х	0	0
00	0	Х	0	Х	0	Х	0	Х	0	Х

TABLE 4
AUTOMATIC DIALING MEMORY PRINTOUT
SELECTION CODES (continued)

AUTO DIAL LISTS (Stations 40 ~ 49)

LED	40	41	42	43	44	45	46	47	48	49
08	Х	Х	Х	Х	Х	Х	Х	Х	Х	Χ_
07	0	0	0	0	0	0	0	0_	0	0
06	Х	Х	Х	Х	Х	X	Х	X	Х	Х
05	0	0	0	0	0	0	0	0	0	0
04	0	0	0	0	0	0	0	0	0	0_
03	0	0	0	0	0	0	0	0_	X	Х
02	0	0	0	0	Х	X	Х	X	0	0
01	0	0	Х	Х	0	0	Х	_ x_	0	0
00	0	Х	О	Х	0	Х	0	X	0	Х

AUTO DIAL LISTS (Stations 50 \sim 59)

LED	50	51	52	53	54	55	56	57	58	59
08	Х	Х	Х	Х	X	Х	Х	Х	Х	Х
07	0	0	0	0	0_	0	0	0	0	0
06	Х	Х	X	Х	Х	Х	Х	Х	Х	Х
05	0	0	0	0	0	0	0	0	0	0
04	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х
03	0	0	0	0	0	0	0	0	X	Х
02	0	0	0	0	Х	X	Х	X	0	0
01	0	0_	Х	Х	0	0	X	X	0	0
00	0	Х	0	Х	0	Х	0	Х	0	Х

AUTO DIAL LISTS (Stations $60 \sim 65$)

LED	60	61	62	63	64	65	All Output
08	Х	Х	Х	Х	Х	Х	Х
07	0	0	٥	0	0	0	0
06	Х	Х	Х	Х	Х	Х	Х
05	Х	Х	Х	Х	Х	X	Х
04	0	0	0	0	0	0	Х
03	0	0	0	0	0	0	Х
02	0	0	O_	О	Χ_	Х	Х
01	0	0	Х	Х	0	0	Х
00	0	Х	0	Х	0	Х	Х

LED on = X LED off = O

##	21216	1 PROGRAMMII	NG ##	
				1:SELECT(LED ON)
		21 16	15 8	7 1INT
0	1	000000	00000000	0000000
0	2	000000	00 000000	00000000
0	#2	000000	00001000	00000110
0	3	000000	00010000	00000101
0	4	000000	00 000000	01110000
0	5	000000	00000000	00000100
0	#5	000000	00000000	00000010
0	6	000000	00000000	00000000
0	#6	000000	00000000	00000000
0	7	000000	00000000	00000000
0	8	000000	00000000	00000000
0	♯B	111111	11111111	11111110
0	9	111111	11111111	11111110
0	91	111111	11111111	11111110
0	92	0 00000	00000000	0000000
0	93	000000	00000000	00000000
0	94	000000	0 0000000	00000000
0	#9	000000	0 0000000	0000000

FIGURE 4—SAMPLE PRINTOUT OF PROGRAMS 01 \sim 0#9

##	SYSTEM	PROGRAMMING	##	
				1:SELECT(LED ON)
		21 16	15 B	7 1INT
1	00	000000	00000000	00000001
1	01	000000	00000000	0000000
1	0 2	000 000	00000000	0000000
		(D	ATA = DIAL N	UMBER)
1	Ø3	10515		
1	04	12		
1	0 5	10736		
1	0 6	9		
1	0 8	5555		
1	0 9	3621		
				1:SELECT(LED ON)
		21 16	15 8	7 1INT
1	10	000000	00000000	0000000 0
1	11	000000	00000000	0000000
1	14	00 0 ~ 999		
1	18	00 0 ~ 999		
		•	•	•
		•	-	•
	•	•	-	•
				1:SELECT(LED ON)
		21 16	15 8	7 1INT
1	90	000000	00000000	00000000
		•	ATA = DIAL N	IUMBER)
1	91	81		
1	9 2	82		
1	93	83		
1	94	84		
1	95	⊁B		
1	96			
1	97			
1	98			
##	END OF	PRINT	##	

FIGURE 5—SAMPLE PRINTOUT OF PROGRAMS 100 \sim 19X

```
ᄪᄪ
   SYSTEM PROGRAMMING
                      (DATA = DIAL NUMBER)
      11
                212
2
                              472
      14
                              495
                              669
                      (DATA = DIAL NUMBER)
                317
2
      21
                              628
2
      24
                              629
                      (DATA = DIAL NUMBER)
2
      81
2
      84
                           ĦĦ
  END OF PRINT
```

FIGURE 6—SAMPLE PRINTOUT OF PROGRAM 2XY

```
SYSTEM PROGRAMMING
ĦĦ
                                           1:SELECT(LED ON)
                           B 7
                                     1INT
          21 16
                     15
                     11111111 11111110
           111111
3
     10
                      11111111 11111110
     11
           111111
Э
                      11111111 11111110
3
     12
           111111
                      11111111 11111110
           111111
3
     13
                      11111111 111111110
Э
     14
           111111
                      11111111 11111110
3
     15
           111111
                      11111111 11111110
3
     16
           111111
                      11111111 111111110
Э
     17
           111111
                      11111111 11111110
3
     18
           111111
                      11111111 11111110
     19
           111111
                      11111111 11111110
3
     20
           111111
3
                      11111111 11111110
     65
            111111
                         ##
## END OF PRINT
```

FIGURE 7—SAMPLE PRINTOUT OF PROGRAM 3XX (IDENTICAL TO 4XX, 5XX, 5#XX, 6XX, 6#XX, 7XX, 8XX, 8#XX, 9XX)

ĦĦ	SYSTEM	PROGRAMI	MING ##			
4 #	10	10	20	C010	CD20	
		0 9	19	CD9	CO19	
		0 8	18	COB	C018	
		0 7	17	C07	CD17	
		0 6	16	CDE	CD16	NOTE:
		0 5	15	C05	CO15	Columns 1 and 2 give the code for the
		04	14	C04	CO14	feature assigned to each key; columns 3 and 4 give the actual features
		Ø 3	13	CD3	CO13	assigned (corresponding to the codes
		02	12	CO2	C012	in columns 1 and 2).
		01	11	CD1	CO11	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	-	•	•	-	•	
	•	•	-	•	•	
•	•	•	•	•	•	
4#	65	*	99	AD3	MW/FL	
		*	98	AD2	DND	
		*	9 <i>7</i>	AD1	REP	
		0 6	9 6	C06	RDL	
		05	95	C05	PAU	
		04	94	CD4	ACB PRV	
		0 3	9 3	CO3		
		02	88	CO2 CO1	MCO CFD	
		0 1	8 7	INT	SAVE	
		00	6 5	TIA	⊃D ∧ C	
nn	END OF	PRINT	HH .			

FIGURE 8—SAMPLE PRINTOUT OF PROGRAM 4#XX

## REPERTO	DRY DIAL ##	
# 0 0 *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 *7B	17148531212	
#00 *79	17145551212	
#00 *80	17147305000	
#00 *81	19142731750	
#00 *82	12 13 55512 12	
#00 *B3	17148531212	
#00 *84	17145551212	
#00 *85	17147305000	
#00 *B6	19142731750	
#00 *87	12135551212	
#00 *88	17148531212	
#00 *89	17145551212	
#00 *90	17147305000	
#00 *91	19142731750	
#00 *92	12135551212	
EE* 00#	17148531212	
#00 *94	17145551212	
#00 *95	17147305000	
#00 *96	19142731750	
#00 * 97	12135551212	
#00 *98	17148531212	
#00 * 99	17145551212	
## END OF	PRINT ##	

FIGURE 9—SAMPLE PRINTOUT OF SPEED DIAL—SYSTEM

TABLE 5 **PROGRAM 01**

SYSTEM ASSIGNMENTS (BASIC)

1) Lock in the SET switch on the HCAU.	SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17.
2) Depress the SPKR key on station 17.	SPKR LED steady on.
3) Dial 31 on the dial pad.	SPKR LED flashes continuously. The various LEDs indicate present data.
4) Refer to the System Record Sheet. Using the various keys, turn their associated LEDs on or off, as required. The detailed meaning of each key/LED is shown below. NOTE: If any key/LED is not shown, it is not used.	An X on the record sheet means the LED should be on. If the LED is already on, depressing the associated key will turn it off and vice versa. LEDs may be turned off and on until the desired pattern is set.

KEY/LED	LED ON	LED OFF			
17	Transfer Privacy	Alternate point answer of transferred CO li Restricted			
16	Automatic Dialing—Override Toll Restriction				
15*	CO Line Group(s)—Eight (91~98)	CO Line Group(s)—One (9)			
14	Two CO Line Conferencing—Inhibit	Allowed			
13	Least Cost Routing	No Least Cost Routing			
12	DP Make Ratio—33%	40%			
11	DTMF Signal Time—160 ms	80ms			
09	Non-Privacy	Privacy Station 17—20-key EKT			
07	Station 17—10-key EKT				
06	Incoming Call Abandon—8 seconds	6 seconds			
05	Pause After Flash—3 seconds	1.5 second			
04	Insert Pause After Flash	No Pause			
03	Pause (MW/FL or PAU key)—3 seconds	1.5 second			
02	Flash—0.5 second	2 seconds			
00**	Tone First	Voice First			

5) Depress the HOLD key to place new data in memory.

6A) Go to Step 2 in another program table

. . . or . . . 6B) Transfer data into working memory per Par-

SET LED goes off. Station 17 LED 19 goes off. New data is stored, previous data is erased.

agraph 02.06.

^{*}If LED 15 is off in this program, see Program 09; if LED 15 is on, see Program 09X. **Voice First is required if system is optioned for Off-hook Call Announce.

PROGRAM 0#1 DOOR PHONE SELECTION

1) Lock i	1) Lock in the SET switch on the HCAU.			SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17.			
2) Depre	ss the SPKR	key on station 17.	SPKR L	ED steady on.			
<u> </u>			SPKR L	ED flashes continuously.			
3) Dial	3) Dial O # 1 on the dial pad.			ious LEDs indicate prese			
Using LEDs mean	4) Refer to the System Record Sheet. Using the various keys, turn their associated LEDs on or off, as required. The detailed meaning of each key/LED is shown below. NOTE: If any key/LED is not shown, it is not used.			An X on the record sheet means the LED should be on. If the LED is already on, depressing the association key will turn it off and vice versa. LEDs may turned off and on until the desired pattern is seconds.			
<u> </u>	KEY/LED	LED ON		LED OFF			
	17	Door Lock Timeout-6 seconds	5	3 seconds			
	16	Door Phone 16B—Door Lock		Door Phone			
	15	Door Phone 16C—Busy-out		No Busy Signal			
1	14	Door Phone 16B—Busy-out		No Busy Signal	!		
ļ	13	Station 16—Door Phone		EKT			
	12	Door Phone 15B—Door Lock		Door Phone	_		
Ì	11	Door Phone 15C—Busy-out	No Busy Signal				
1	10	Door Phone 15B—Busy-out	No Busy Signal				
	09	Station 15—Door Phone		<u> </u>			
1	08	Door Phone 14B—Door Lock		Door Phone	_		
1	07	Door Phone 14C—Busy-out		No Busy Signal	_		
1	06	Door Phone 14B—Busy-out		No Busy Signal	_		
	05	Station 14—Door Phone		EKT	4		
	04	Door Phone 13C—Alarm*		Door Phone	_{		
	03	Door Phone 13B—Door Lock		Door Phone	_		
	02	Door Phone 13C—Busy-out		No Busy Signal			
1	01	Door Phone 13B—Busy-out	No Busy Signal				
	00	Station 13—Door Phone		EKT	<u> </u>		
men	 Depress the HOLD key to place new data in memory. 			All station 17 LEDs (except 19) go off.			
6B) Tra	6A) Go to Step 2 in another program table or 6B) Transfer data into working memory per Paragraph 02.06 .			ED goes off. n 17 LED 19 goes off. data is stored, previous d	ata is erased.		

^{*}Station 13 only.

PROGRAM 02 SYSTEM ASSIGNMENTS (OPTIONS)

SET switch on the HCAU.	SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17.				
SPKR key on station 17.	SPKR LED	steady on.			
he dial pad.					
orious keys, turn their associated off, as required. The detailed each key/LED is shown below.	An X on the record sheet means the LED should be on. If the LED is already on, depressing the associated key will turn it off and vice versa. LEDs may be turned off and on until the desired pattern is set.				
LED ON		LED OFF			
Station 33—Trunk-to-trunk Connec	tion	EKT			
Station 32—Trunk-to-trunk Connec	tion	EKT			
Station 31—Trunk-to-trunk Connec	tion	EKT			
Station 30—Trunk-to-trunk Connec	tion	EKT			
Station 29—Trunk-to-trunk Connec	tion	EKT			
Station 28—Trunk-to-trunk Connec	tion	EKT			
Stations 18 & 19—Amplified Confe	rence	Not Amplified			
Stations 24 & 25—Amplified Confe	rence	Not Amplified			
Stations 26 & 27—Amplified Confe	rence	Not Amplified			
Stations 34 & 35—Amplified Confe	rence	Not Amplified			
Automatic Callback—Warning Tone		No Warning Tone			
LCD Display Dialed Number—1 mir	nute	15 seconds			
Night Ringing over External Page*-	-Allowed	Not Allowed			
BGM over External Page—Allowed		Not Allowed			
External Page with All Call Page—I	ncluded	Not Included			
HOLD key to place new data in	All station 17 LEDs (except 19) go off.				
or Ita into working memory per Par-	Station 17	LED 19 goes off.			
	Station 33—Trunk-to-trunk Connect Station 32—Trunk-to-trunk Connect Station 31—Trunk-to-trunk Connect Station 30—Trunk-to-trunk Connect Station 29—Trunk-to-trunk Connect Station 28—Trunk-to-trunk Connect Stations 18 & 19—Amplified Confet Stations 24 & 25—Amplified Confet Stations 26 & 27—Amplified Confet Stations 34 & 35—Amplified Confet Automatic Callback—Warning Tonet LCD Display Dialed Number—1 mint Night Ringing over External Page*— BGM over External Page*—Allowed External Page with All Call Page—Item 1 another program table	SET switch on the HCAU. Station 17 System is Normal fur SPKE key on station 17. SPKR LED The dial pad. System Record Sheet. An X on the be on. If the LED is shown below. Station 33—Trunk-to-trunk Connection Station 32—Trunk-to-trunk Connection Station 31—Trunk-to-trunk Connection Station 30—Trunk-to-trunk Connection Station 29—Trunk-to-trunk Connection Station 28—Trunk-to-trunk Connection Stations 24 & 25—Amplified Conference Stations 24 & 25—Amplified Conference Stations 24 & 35—Amplified Conference Automatic Callback—Warning Tone LCD Display Dialed Number—1 minute Night Ringing over External Page*—Allowed BGM over External Page—Allowed External Page with All Call Page—Included HOLD key to place new data in All station 2 in another program table or ata into working memory per Par- .06. SET LED g SET LED g Station 17	SET switch on the HCAU. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17. SPKR LED steady on. SPKR LED flashes continuously. The various LEDs indicate present data. System Record Sheet. Stations 84 system their associated each key/LED is shown below. System Record Sheet. Station 33—Trunk-to-trunk Connection EKT Station 33—Trunk-to-trunk Connection EKT Station 33—Trunk-to-trunk Connection EKT Station 30—Trunk-to-trunk Connection EKT Station 29—Trunk-to-trunk Connection EKT Station 29—Trunk-to-trunk Connection EKT Stations 18 & 19—Amplified Conference Not Amplified Stations 24 & 25—Amplified Conference Not Amplified Stations 34 & 35—Amplified Conference Not Amplified Stations 24 & 25—Amplified Conference Not Amplified Automatic Callback—Warning Tone No Warning Tone LCD Display Dialed Number—1 minute 15 seconds Not Allowed External Page Allowed Not Allowed External Page with All Call Page—Included Not Included Not I		

^{*}Program 0#8 selects which individual CO(s) will ring.

PROGRAM 0#2 ACCOUNT CODE DIGIT LENGTH and TIE LINE/OPX SELECTION

1) Lock in the SET switch on the HCAU.	SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17.
2) Depress the SPKR key on station 17.	SPKR LED steady on.
3) Dial 🛮 🗗 2 on the dial pad.	SPKR LED flashes continuously. The various LEDs indicate present data.
4) Refer to the System Record Sheet. Using the various keys, turn their associated LEDs on or off, as required. The detailed meaning of each key/LED is shown below. This program also defines the length of the SMDR account code. Enter a number from 4 to 15 via the dial pad.	If the LED is already on, depressing the associated key will turn it off and vice versa. LEDs may be turned off and on until the desired pattern is set. For account code length, as each digit is entered, the entry is verified by LEDs as shown.

KEY/LED	LED ON	LED OFF			
17	Ringing Repeat	Standard Ring			
16	ABR Retry—30 Seconds	1 Minute Retry			
15	HDTU Modem Speed—1200 BPS	300 BPS			
14	ABR—10 Attempts	ABR—15 Attempts			
12	Stations 22/23 TIE Lines—Voice First	Tone First			
11	Stations 20/21 TIE Lines—Voice First	Tone First			
09	Stations 22/23—TIE Lines	Stations 22/23—OPXs			
08	Stations 20/21—TIE Lines	Stations 20/21—OPXs			
04 ~ 00	Account Code Digit Length				

X = Select (LED on) Initialized Data: LEDs 01 & 02 on; all other LEDs off.

1	۱/	\sim	7		٠.
,	¥	v	,	_	•

LEDs 00 ~ 04 set the Account Code Digit Length	Digit Length	4	5	6	7	8	9	10	11	12	13	14	15
(4 \sim 15 digits) in binary format per table.	mat per table. O4 O3 ON ON ON ON ON ON ON ON ON		Х	Х	Χ	X	Х	Х					
V = 1 FD ==	03					Х	Х						
X = LED on All LEDs off = no data	02	Х	Х	Х	Х							Х	x x
All EEDS ON THO date	01			Х	Х					Х	Х		
	00		Х		X		Х		Х		Х		Х

5) Depress the HOLD key to place new data in	All station 17 LEDs (except 19) go off.
memory.	

6A) Go to Step 2 in another program table

6B) Transfer data into working memory per Paragraph **02.06**.

SET LED goes off.
Station 17 LED 19 goes off.
New data is stored, previous data is erased.

NOTES:

- 1. Depressing the # key displays the data without changing it.
- 2. To clear existing data without entering a new number, depress the key two times.

PROGRAM 03 SYSTEM ASSIGNMENTS (OPTIONS)

1) Lock in the SET switch on the HCAU.			SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17.		
2) De	epress the SPKR	key on station 17.	SPKR LED steady	on	
	ial 🛛 🕄 on the di		L	indicate present data.	
U: LE m	sing the various EDs on or off, leaning of each OTE:	em Record Sheet. keys, turn their associated as required. The detailed key/LED is shown below. not shown, it is not used.	An X on the record sheet means the LED should be on. If the LED is already on, depressing the associated key will turn it off and vice versa. LEDs may be turned off and on until the desired pattern is set		
	KEY/LED	LED ON		LED OFF	
	10	Station 10—ALARM key		AD1 key	
	09	Station 10—DND key		NT key	
	08	DSS Console Signalling—3-r	ing Mode	2-ring Mode	
	07	DSS Console—Tenant Service		Non-tenant	
ŀ	06	DSS Console Calls*—Tone F	irst	Voice First	
	05	DSS Console Call Forward—	Allowed	Not Allowed	
	04	Message Center—Station 12		Not Equipped	
1	03	Message Center—Station 11		Not Equipped	
	02	Message Center—Station 10)	Not Equipped	
ļ	01	DSS 2		Not Equipped	
1	00	DSS 1		Not Equipped	
	epress the HOL	D key to place new data in	All station 17 LED	es (except 19) go off.	
6B)		another program tableor nto working memory per Par-	SET LED goes off. Station 17 LED 19 New data is store		

^{*}Voice First must be optioned for Off-hook Call Announce.

PROGRAM 04 CO LINE OUTPULSING SELECTION

1) Lock in the SET switch on the HCAU.	SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17.
2) Depress the SPKR key on station 17.	SPKR LED steady on.
3) Dial 00 on the dial pad.	SPKR LED flashes continuously. CO LEDs indicate present data.
 4) Refer to the System Record Sheet. Each CO key/LED represents itself; depress the required keys. LED OFF = DTMF tone operation. LED ON = Dial Pulse (DP) operation. 	An X on the record sheet means the LED should be on. If the LED is already on, depressing the associated key will turn it off and vice versa. LEDs may be turned off and on until the desired pattern is set.
 Depress the HOLD key to place new data in memory. 	All station 17 LEDs (except 19) go off.
6A) Go to Step 2 in another program table or 6B) Transfer data into working memory per Paragraph 02.06.	SET LED goes off. Station 17 LED 19 goes off. New data is stored, previous data is erased.

PROGRAM #4—CO LINE IDENTIFICATION (LCD EKT Required)

(,		
1) Lock in the SET switch on the HCAU.	SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17. LCD is in program mode.	
2) Depress the SPKR key on station 17.	SPKR LED steady on. LCD: Program No.?.	
3) Dial 🛮 🗗 on the dial pad	SPKR LED flashes continuously. LCD displays program number.	
4) Refer to the System Record Sheet. Depress the required key, and enter the CO line name, as defined in the System Record Sheet, via the dial pad. a) Depress the key to access alpha characters. b) Move the cursor to the desired position (the left edge of the display for a new message, two spaces to the right of the preprogrammed message to add information). c) Depress the key with a letter you wish to enter. Use the key with a letter you wish to enter. Use the key to shift from letter to letter on the key. For example: If you press a, a D will be displayed. By pressing again, the E is changed to E. By pressing again and the F changes to D. To enter spaces, press a. d) If want to enter a number, press the key to change to numeric characters. Numbers are also entered on the dial pad. Press the key again to return to alpha characters. e) The following special characters are set by pressing and then pressing to step through the available characters: Q, Z, :, -, +, /.	Cursor appears in LCD display. LCD displays characters as they are entered.	
5) Depress the HOLD key to place new data in memory.	All station 17 LEDs (except 19) 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. 	SET LED goes off. Station 17 LED 19 goes off. New data is stored, previous data is erased.	

PROGRAM 05 AUTOMATIC RECALL FROM HOLD TIMING

(This program is used only if LEDs 10, 11 and 12 are ALL off in Program 5#XX.)

1) Lock in the SET switch on the	HCAU.		ED 19 on. program mode. tions halt on station 17.
2) Depress the SPKR key on statio	n 17.	SPKR LED st	eady on.
3) Dial 🛛 🗗 on the dial pad.			ashes continuously. licates present data.
4) Refer to the System Record Sh Using the various keys, turn a LED on or off, as required. The de ing of each key/LED is shown NOTE: If any key/LED is not shown, it is	n associated etailed mean- below.	be on. Only one LED	record sheet means the LED should is permitted to be on, depressing anturn that LED on and turn off the pre-
	KEY/LED	LED ON	
	07	160 seconds	
	06	128 seconds	
	05	96 seconds	
	04	64 seconds	
	03	48 seconds	
	02	32 seconds	
	01	16 seconds	
	00	No Recall	
5) Depress the HOLD key to place memory.	new data in	All station 1	7 LEDs (except 19) go off.
6A) Go to Step 2 in another progr or 6B) Transfer data into working me			
agraph 02.06.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		es off. ED 19 goes off. stored, previous data is erased.

PROGRAM 0#5 CAMP-ON TIMEOUT

1) Lock in the SET switch on the I	HCAU.	SET LED on. Station 17 LE System is in Normal funct	ED 19 on. program mode. ions halt on station 17.
2) Depress the SPKR key on station	n 17.	SPKR LED st	eady on.
3) Dial 🛚 🗷 🕏 on the dial pad.		One LED ind	ashes continuously. licates present data.
4) Refer to the System Record Sheet. Using the various keys, turn an associated LED on or off, as required. The detailed meaning of each key/LED is shown below. NOTE: If any key/LED is not shown, it is not used.		be on. Only one LE	record sheet means the LED should D is permitted to be on; depressing will turn that LED on and turn off the D.
If ally key, LEB is not shown, it	KEY/LED	LED ON	
	03	64 seconds	
	02	48 seconds	
	01	32 seconds	
	00	16 seconds	
 Depress the HOLD key to place new data in memory. 		All station 1	7 LEDs (except 19) go off.
6A) Go to Step 2 in another program table or 6B) Transfer data into working memory per Paragraph 02.06.		SET LED go Station 17 L New data is	es off. ED 19 goes off. stored, previous data is erased.

TABLE 14 PROGRAM 06 AUTOMATIC RELEASE ON HOLD ENABLE

1) Lock in the SET switch on the HCAU.	SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17.
2) Depress the SPKR key on station 17.	SPKR LED steady on.
3) Dial 05 on the dial pad.	SPKR LED flashes continuously. CO LEDs indicate present data.
4) Refer to the System Record Sheet. Using the various keys, turn their associated LEDs on or off, as required. Each CO key/LED represents itself—that is, if LED 01 is on, CO1 will have AROH during normal operation. If LED 01 is off, AROH will not function on that line. To program COs 18 ~ 21, see Paragraph 02.10.	An X on the record sheet means the LED should be on (AROH enabled). If the LED is already on, depressing the associated key will turn it off and vice versa. LEDs may be turned off and on until the desired pattern is set.
5) Depress the HOLD key to place new data in memory.	All station 17 LEDs (except 19) go off.
6A) Go to Step 2 in another program tableor 6B) Transfer data into working memory per Paragraph 02.06.	SET LED goes off. Station 17 LED 19 goes off. New data is stored, previous data is erased.

NOTES:

- 1. Do not program AROH with TIE lines. This program is also used to release Trunk-to-Trunk connections if enabled with Programs 02 and 0#6.
- 2. If Automatic Release from Hold is available, the CO will automatically drop the lines when the outside party hangs up. However, if Automatic Release from Hold is not available, the person who set up the trunk-to-trunk connection must occasionally monitor the call and disconnect the CO lines when the two parties hang up.

PROGRAM 0#6 TRUNK-to-TRUNK CONNECTION ENABLE

1) Lock in the SET switch on the HCAU.	SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17.
2) Depress the SPKR key on station 17.	SPKR LED steady on.
3) Dial 🛮 🗓 5 on the dial pad.	SPKR LED flashes continuously. CO LEDs indicate present data.
4) Refer to the System Record Sheet. Using the various keys, turn their associated LEDs on or off, as required. Each CO key/LED represents itself—that is, if LED 01 is on, CO1 will be allowed trunk-to-trunk connection, if LED 01 is off, trunk-to-trunk connection will not be allowed on that line, etc. To program COs 18 ~ 21, see Paragraph 02.10.	An X on the record sheet means the LED should be on. If the LED is already on, depressing the associated key will turn it off and vice versa. LEDs may be turned off and on until the desired pattern is set.
5) Depress the HOLD key to place new data in memory.	All station 17 LEDs (except 19) go off.
6A) Go to Step 2 in another program tableor 6B) Transfer data into working memory per Paragraph 02.06.	SET LED goes off. Station 17 LED 19 goes off. New data is stored, previous data is erased.

PROGRAM 07 AUTOMATIC RELEASE ON HOLD TIMING

1) Lock in the SET switch on the HCAU.	SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17.
2) Depress the SPKR key on station 17.	SPKR LED steady on.
3) Dial 🛛 🖟 on the dial pad.	SPKR LED flashes continuously. CO LEDs indicate present data.
4) Refer to the System Record Sheet. Using the appropriate keys, turn their associated LEDs on or off, as required. Each CO key/LED represents itself—that is, if LED 01 is on, CO1 will have XB (crossbar) timing for AROH. If LED 01 is off, CO1 will have ESS (electronic) timing, etc. To program COs 18 ~ 21, see Paragraph 02.10.	An X on the record sheet means the LED should be on. If the LED is already on, depressing the associated key will turn it off and vice versa. LEDs may be turned off and on until the desired pattern is set.
 Depress the HOLD key to place new data in memory. 	All station 17 LEDs (except 19) go off.
6A) Go to Step 2 in another program table or 6B) Transfer data into working memory per Paragraph 02.06 .	SET LED goes off. Station 17 LED 19 goes off. New data is stored, previous data is erased.

NOTE:

Do not program AROH with TIE lines. This program affects only those CO lines enabled via Program 06 (AROH should be enabled for Trunk-to-Trunk connections).

PROGRAM 0#7 AUTOMATIC RELEASE ON HOLD TIMING

1) Lock in the SET switch on the HCAU.	SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17.
2) Depress the SPKR key on station 17.	SPKR LED steady on.
3) Dial 🛚 🗮 🖫 on the dial pad.	SPKR LED flashes continuously. CO LEDs indicate present data.
4) Refer to the System Record Sheet. Using the appropriate keys, turn their associated LEDs on or off, as required. Each CO key/LED represents itself—that is, if LED 01 is on, CO1 is bridged with the 1A2 system. If LED 01 is off, CO1 is not bridged, etc. To program COs 18 ~ 21, see Paragraph 02.10.	An X on the record sheet means the LED should be on. If the LED is already on, depressing the associated key will turn it off and vice versa. LEDs may be turned off and on until the desired pattern is set.
 Depress the HOLD key to place new data in memory. 	All station 17 LEDs (except 19) go off.
6A) Go to Step 2 in another program table or 6B) Transfer data into working memory per Paragraph 02.06.	SET LED goes off. Station 17 LED 19 goes off. New data is stored, previous data is erased.

PROGRAM 08 TENANT SERVICE SELECTION

1) Lock in the SET switch on the HCAU.	SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17.
2) Depress the SPKR key on station 17.	SPKR LED steady on.
3) Dial 🛛 🖁 on the dial pad.	SPKR LED flashes continuously. CO LEDs indicate present data.
4) Refer to the System Record Sheet. Using the appropriate keys, turn their associated LEDs on or off, as required. Each CO key/LED represents itself—that is, if LED 01 is on, CO1 will belong to tenant #2. If LED 01 is off, CO1 will belong to tenant #1. To program COs 18 ~ 21, see Paragraph 02.10.	An X on the record sheet means the LED should be on. If the LED is already on, depressing the associated key will turn it off and vice versa. LEDs may be turned off and on until the desired pattern is set.
 Depress the HOLD key to place new data in memory. 	All station 17 LEDs (except 19) go off.
 6A) Go to Step 2 in another program table or or 6B) Transfer data into working memory per Paragraph 02.06. 	SET LED goes off. Station 17 LED 19 goes off. New data is stored, previous data is erased.

NOTE:

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

PROGRAM 0#8 NIGHT RINGING OVER EXTERNAL PAGE

1) Lock in the SET switch on the HCAU.	SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17.
2) Depress the SPKR key on station 17.	SPKR LED steady on.
3) Dial 🛮 🖽 🕄 on the dial pad.	SPKR LED flashes continuously. CO LEDs indicate present data.
4) Refer to the System Record Sheet. Using the appropriate keys, turn their associated LEDs on or off, as required. Each CO key/LED represents itself—that is, if LED 01 is on, when the system is in night operation, incoming calls over that CO line will ring over the external page; if LED 01 is off, incoming calls over that CO line will not ring in night operation, etc. To program COs 18 ~ 21, see Paragraph 02.10.	An X on the record sheet means the LED should be on. If the LED is already on, depressing the associated key will turn it off and vice versa. LEDs may be turned off and on until the desired pattern is set.
 Depress the HOLD key to place new data in memory. 	All station 17 LEDs (except 19) go off.
6A) Go to Step 2 in another program table or 6B) Transfer data into working memory per Paragraph 02.06.	SET LED goes off. Station 17 LED 19 goes off. New data is stored, previous data is erased.

NOTE:

Use this program only if LED 02 is on in Program 02.

TABLE 20 PROGRAM 09

1) Lock in the SET switch on the HCAU.	SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17.
2) Depress the SPKR key on station 17.	SPKR LED steady on.
3) Dial 🗓 🗓 on the dial pad.	SPKR LED flashes continuously. CO LEDs indicate present data.
4) Refer to the System Record Sheet. Using the appropriate keys, turn their associated LEDs on or off, as required. Each CO key/LED represents itself—that is, if LED 01 is on, CO1 will be included in the "Dial 9" group. To program COs 18 ~ 21, see Paragraph 02.10.	An X on the record sheet means the LED should be on. If the LED is already on, depressing the associated key will turn it off and vice versa. LEDs may be turned off and on until the desired pattern is set.
 Depress the HOLD key to place new data in memory. 	All station 17 LEDs (except 19) go off.
6A) Go to Step 2 in another program table or 6B) Transfer data into working memory per Paragraph 02.06.	SET LED goes off. Station 17 LED 19 goes off. New data is stored, previous data is erased.

SINGLE CO LINE (DIAL 9) GROUP SELECTION

NOTE:

Use this program only if LED 15 is off in Program 01.

TABLE 21 PROGRAM 09X

CO LINE GROUPS (DIAL 91 \sim 98) ASSIGNMENTS

SET LED on. Station 17 LED 19 on. 1) Lock in the SET switch on the HCAU. System is in program mode. Normal functions halt on station 17. SPKR LED steady on. 2) Depress the SPKR key on station 17. 3) Dial $\overline{0}$ $\overline{0}$ on the dial pad. (X = 1 \sim 8 depending SPKR LED flashes continuously. CO LEDs indicate present data. upon the group being defined.) Dial 1991 for "Dial 91" group; 122 for "Dial 92" group, etc. An X on the record sheet means the LED should 4) Refer to the System Record Sheet. Using the appropriate keys, turn their assohe on If the LED is already on, depressing the associated ciated LEDs on or off, as required. Each CO key will turn it off and vice versa. LEDs may be key/LED represents itself—that is, if LED 01 turned off and on until the desired pattern is set. is on, CO1 will be included in the "Dial 9X" group. To program COs 18 ~ 21, see Paragraph 02.10. All station 17 LEDs (except 19) go off. 5) Depress the HOLD key to place new data in memory. 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 Par-SET LED goes off. agraph 02.06. Station 17 LED 19 goes off. New data is stored, previous data is erased.

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NOTE:

Use this program only if LED 15 is on in Program 01.

PROGRAM 0#9 OFF-PREMISES LINE HUNTING

1) Lock in the SET switch on the HCAU.	SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17.
2) Depress the SPKR key on station 17.	SPKR LED steady on.
3) Dial 🛚 🗷 🗗 on the dial pad.	SPKR LED flashes continuously. CO LEDs indicate present data.
 4) Refer to the System Record Sheet. Using using the appropriate keys, turn their associated LEDs on or off, as required. To program COs 18 ~ 21, see Paragraph 02.10. LED OFF: (DAY and NIGHT mode) Hunt rings with LINE1/TEL1 only. LED ON (DAY mode): Hunt does not ring with any LINES/TELS. LED ON (NIGHT mode): Hunt rings with ALL LINES/TELS. 	An X on the record sheet means the LED should be on. If the LED is already on, depressing the associated key will turn it off and vice versa. LEDs may be turned off and on until the desired pattern is set.
5) Depress the HOLD key to place new data in memory.	All station 17 LEDs (except 19) go off.
6A) Go to Step 2 in another program tableor 6B) Transfer data into working memory per Paragraph 02.06.	SET LED goes off. Station 17 LED 19 goes off. New data is stored, previous data is erased.

PROGRAM 190 PBX BACKUP

1) Lock in the SET switch on the HCAU.	SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17.
2) Depress the SPKR key on station 17.	SPKR LED steady on.
3) Dial 🛛 🗗 🐧 on the dial pad.	SPKR LED flashes continuously. CO LEDs indicate present data.
4) Refer to the System Record Sheet. Using the appropriate keys, turn their associated LEDs on or off, as required. Each CO key/LED represents itself—that is, if LED 01 is on, the system assumes that the CO1 line is connected to a PBX line and will cause features such as Toll Restriction and Automatic Dialing to function accordingly, etc. To program COs 18 ~ 21, see Paragraph 02.10.	An X on the record sheet means the LED should be on. If the LED is already on, depressing the associated key will turn it off and vice versa. LEDs may be turned off and on until the desired pattern is set.
5) Depress the HOLD key to place new data in memory.	All station 17 LEDs (except 19) go off.
 6A) Go to Step 2 in another program table or 6B) Transfer data into working memory per Paragraph 02.06. 	SET LED goes off. Station 17 LED 19 goes off. New data is stored, previous data is erased.

PROGRAM 19X PBX ACCESS CODES

1) Lock in the SET switch on the HCA	SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17.										
Depress the SPKR key on station 17	<u> </u>					teady					-
3) Dial 13 % on the dial pad. X = 1 ~ 8 sponding to the access code being p med). Dial 13 (X = 1) to program firs code, 13 2 (X = 2) to program second code, etc.	Var	ious	LED	lashe s ind	licate	pres	sent (data.			
 Refer to the System Record Sheet. Using the dial pad, enter the require code (two digits must be entered). 			LE	Os 00 D 10 yed.	0 ~ (or 1	03 in 1 inc	dicat licate	e dat es wh	a in nich d	binar digit i	y format. s being dis-
 If the access code is a single digi 	t, en	ter 🖁	Key/	LED	T	Start	t	1 s	t Dig	git	2nd Digit
as the second digit.If all combinations following a p	artic	ular	1	1							Steady
first digit are to be considered	d ac	cess	1	0		Flash	١ .	5	stead	У	
digit. NOTES: 1. Depressing the key displays the digit; the second will display the 2. To clear existing data without en	P 50	cond	diait.	etc.							
Binary Numbers	1	2	3	4	5	6	7	8	9	0	D
03								Х	X	Х	×
X = LED on 02				Х	Х	Х	X	<u></u>	<u> </u>		X
All LEDs off = no data 01	×	X	X			X	X		X	X	X
5) Depress the HOLD key to place ne memory. 6A) Return to Step 2 in order to contact this program or	AII	stat		7 LE	Ds (e	excep	it 19)	go o	ff.		
6B) Go to Step 2 in another program											
6C) Transfer data into working memoragraph 02.06 .	ry pe	r Par	SET LED goes off. Station 17 LED 19 goes off. New data is stored, previous data is erased.								

PROGRAM 100 TOLL RESTRICTION SYSTEM PARAMETERS (DIALING PLAN)

1) Lock in the SET switch on the HCAU.	SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17.
2) Depress the SPKR key on station 17.	SPKR LED steady on.
3) Dial 100 on the dial pad.	SPKR LED flashes continuously. An LED indicates present data.
Refer to the System Record Sheet. Turn the associated LED on for the dialing plan of the Home Area Code.	An X on the record sheet means the LED should be on. Only one LED may be on at one time. If the LED is already on, depressing the associated key will turn it off and vice versa.
5) Depress the HOLD key to place new data in memory.	All station 17 LEDs (except 19) go off.
6A) Go to Step 2 in another program table or	
6B) Transfer data into working memory per Paragraph 02.06 .	SET LED goes off. Station 17 LED 19 goes off. New data is stored, previous data is erased.

PROGRAM 101 TOLL RESTRICTION DISABLE

1) Lock in the SET switch on the HCAU.	SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17.
2) Depress the SPKR key on station 17.	SPKR LED steady on.
3) Dial 101 on the dial pad.	SPKR LED flashes continuously. CO LEDs indicate present data.
4) Refer to the System Record Sheet. Using the appropriate keys, turn their associated LEDs on or off, as required. Each CO key/LED represents itself—that is, if LED 01 is on, toll restriction is not applied to that CO1 line; if LED 01 is off, toll restriction is applied to that CO1, etc. To program COs 18~21, see Paragraph 02.10.	An X on the record sheet means the LED should be on. If the LED is already on, depressing the associated key will turn it off and vice versa. LEDs may be turned off and on until the desired pattern is set.
5) Depress the HOLD key to place new data in memory.	All station 17 LEDs (except 19) go off.
6A) Go to Step 2 in another program table or 6B) Transfer data into working memory per Paragraph 02.06.	SET LED goes off. Station 17 LED 19 goes off. New data is stored, previous data is erased.

PROGRAM 102 FORCED ACCOUNT CODE CHECK

1) Lock in the SET switch on the HCAU.	SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17.
2) Depress the SPKR key on station 17.	SPKR LED steady on.
3) Dial 102 on the dial pad.	SPKR LED flashes continuously. CO LEDs indicate present data.
 4) Refer to the System Record Sheet. Using the appropriate keys, turn their LEDs on or off, as required. To program COs 18 ~ 21, see Paragraph 02.10. LED ON = Forced Account Codes are checked. Each CO key/LED represents itself—that is, if the LED 01 is on, stations calling out over CO1 will be forced to enter an account code (if required by Program 5#XX). 	An X on the record sheet means the LED should be on. If the LED is already on, depressing the associated key will turn it off and vice versa. LEDs may be turned off and on until the desired pattern is set.
5) Depress the HOLD key to place new data in memory.	All station 17 LEDs (except 19) go off.
6A) Go to Step 2 in another program table or 6B) Transfer data into working memory per Paragraph 02.06.	SET LED goes off. Station 17 LED 19 goes off. New data is stored, previous data is erased.

PROGRAM 103/105 OTHER COMMON CARRIER or EQUAL ACCESS #1 and #2

1) Lock in t		SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17.												
2) Depress	the SPKR	key on sta	ation 17.					D stea	_					
3) Dial 10						LEDs	ind	D flas icate p	rese	nt d	ata.			
4) Refer to the System Record Sheet. This program registers the 1st & 2nd equal access (OCC) numbers used by the system. These 5-digit numbers are entered via the dial pad.							ach as	digit is	s ente n belo	ered, ow.	the e	entry	is ve	erified by
	Key/LED	Start	1st Dig	it	2nd	d Digi		3rd	Digit		4th Digit			5th Digit
	12										Steady		+	Steady
i	11_				S	teady		Steady					+	Steady
	10	Flash	Steady						ady	7	8	9	0	Steady
		Binary	Numbers: 03	1	2	3	4	5	6		 °	X	×	1
	X = LEC	\	03	ļ		 	Х	l x	X	Х	 ^	 ^-	~	-
AULE	X = LEL Ds off = no (02		X	 x 		+ ^	X	$\frac{\hat{x}}{x}$	1	l	X	· ·
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	D3 011 110 V		00	X	 ^	l x		+ x		X	1 -	X		1
5) Depress the HOLD key to place new data in memory.6A) Go to Step 2 in another program table or						All station 17 LEDs (except 19) go off. New data is stored, previous data is erased.							rased.	
6B) Transfer data into working memory per Paragraph 02.06 .							SET LED goes off. Station 17 LED 19 goes off.							

NOTE:
Program 105 follows the same procedure as Program 103.
Program 105 is used to register the second OCC number used by the system.

TABLE 29 PROGRAM 104/106 OTHER COMMON CARRIER AUTHORIZATION CODE LENGTHS #1 and #2

1) Lock in the SET switch on t	SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17.												
2) Depress the SPKR key on sta	tion 17			SP	KR L	ED st	eady	on.					
3) Dial 101 (105) n the dial pa	nd.					ED fl						eta.	
4) Refer to the System Record This program defines the leng rization codes for OCC #1 & # numbers are entered via the			digit s sho				e en	try is	verifie	d by			
					Ke	y/LE 11		tart		Digit		nd Digit Steady	
						10		ash		eady		т	┙
Binary N		1	2	3	4	5	6	7	8 X	9 X	0 X	ł	
X = LED on	03 02	 	-	 	X	X	x	x	 ^ -	 ^ -	 ^-	İ	
All LEDs off = no data	01		X	x	 ^	 ^- -	x	x	 	<u> </u>	×		
	00	Х		X		Х		Х		Х		1	
 Depress the HOLD key to pl memory. 	ace nev	v dat	a in	All station 17 LEDs (except 19) go off. New data is stored, previous data is erased.									
6A) Go to Step 2 in another program table or 6B) Transfer data into working memory per Paragraph 02.06.						D goe 17 L			es of	f.			

NOTE:
Program 106 follows the same procedure as Program 104.
Program 106 defines the length of OCC#2 authorization code.

PROGRAM 108/109 TOLL RESTRICTION OVERRIDE CODES #1 and #2

1) Lock in t	SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17.													
2) Depress	the SPKR	key on sta	ation 17.) stea						
3) Dial 10					ļ	LEDs	indi	oflas cate (rese	nt da	ata.			
4) Refer to the System Record Sheet. Enter the 4-digit Toll Restriction Override Codes via the dial pad.							ach o	digit is showr	ente n belo	ered, ow.	the (entry	is ve	erified by
	Key/LED	Start	1st Dig	it	2n	d Digi	t I	3rd	Digit		4th [
	12										Steady			
	11				S	teady		Ste	Steady					ļ
j	10	Flash	Steady	<u>, </u>				Steady				T -		
		Binary	Numbers:	1	2	3	4	5	6	7	8 X	9 X	0 X	1
		_	03	 _	<u> </u>		L.,	 , 	X	×	 ^	-	_^_	1
AHIE	X = LED Ds off = no (02		<u> </u>	 , -	X_	_ X	- î -	 	 		X	1
An Le	יוט פט – ווט פטב	uata	01		X	X		X	_^_	x	+	X	 	1
5) Depress the HOLD key to place new data in memory. 6A) Go to Step 2 in another program tableor 6B) Transfer data into working memory per Paragraph 02.06.						All s New	data LED	n 17 a is st goes	ored off.	, pre	vious	9) go data	off. is er	ased.

NOTE:

Program 5#XX, LED 13 enables stations to use Toll Restriction Override Codes 1 & 2.

PROGRAM 1X0 TOLL RESTRICTION CLASS PARAMETERS

1) Lock in the SET switch on the HCA	1	SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17.						
2) Depress the SPKR key on station 1	7.	SPKR LED steady on.						
		SPKR LED flashes continuously. An LED indicates present data.						
3) Dial 🛚 🗓 0 on the dial pad.		An X on the record sheet means the LED should						
4) Refer to the System Record Sheet. Using the various keys, turn their a LEDs on or off, as required. The meaning of each key/LED is show	detailed	be on. If the LED is already on, depressing the associated key will turn it off and vice versa. LEDs may be turned off and on until the desired pattern is set.						
NOTE: If any key/LED is not shown, it is no	t used.	LED OFF						
KEY/LED 1 - 1 - 1 - 5 - 5	D ON 5 + XXXX—Alle	owed Not Allowed						
	rseas Restrict	ed Allowed						
01 01 or 01 Ove		LAHOWED						
5) Depress the HOLD key to place r		All station 17 LEDs (except 19) go off.						
6A) Go to Step 2 in another programmer or 6B) Transfer data into working memagraph 02.06 .	nory per Par-	SET LED goes off. Station 17 LED 19 goes off. New data is stored, previous data is erased.						

PROGRAM 1XY TOLL RESTRICTION CLASS AREA CODE ENTRY (LCD TELEPHONE REQUIRED)

1) Lock in the SET switch on the HCAU.	SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17. LCD is blank.
2) Depress the SPKR key on station 17.	SPKR LED steady on. LCD is blank.
3) Dial 122 (Allow), 122 (Deny) or 122 (Display) as required. (X = Restriction class 1 ~ 4.)	SPKR LED flashes continuously. LCD displays dialed number.
4) Press key.	1 X 2 = LCD is blank. 1 X 3 = LCD is blank. 1 X 4 = LCD displays all allowed codes.
 Enter first area code in range sequence (start). 	LCD displays code entered.
6) Depress key.*	LCD shifts left to provide space for next code.
7) Enter final area code in range sequence (stop).*	LCD displays code entered.
8) Depress key.	LCD is blank.
9) Return to Step 5 to enter additional area codes.	
10) Depress the HOLD key to place new data in memory.	All station 17 LEDs (except 19) go off.
11A) Return to Step 2 in order to continue with this program	
11B) Go to Step 2 in another program table	
11C) Transfer data into working memory per Paragraph 02.06.	SET LED goes off. Station 17 LED 19 goes off. New data is stored, previous data is erased.

^{*}Skip Steps 6 and 7 if only one area code in sequence is being entered.

PROGRAM 1XZ TOLL RESTRICTION CLASS OFFICE CODE ENTRY (LCD TELEPHONE REQUIRED)

1) Lock in the SET switch on the HCAU.	SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17. LCD is blank.
2) Depress the SPKR key on station 17.	SPKR LED steady on. LCD is blank.
3) Dial 123 (Allow), 127 (Deny) or 128 (Display) as required. (X = Restriction class 1 ~ 4.)	SPKR LED flashes continuously. LCD displays dialed number.
4) Press key.	1 X 6 = LCD is blank. 1 X 7 = LCD is blank. 1 X 8 = LCD displays all allowed codes.
5) Enter first office code in range sequence (start).	LCD displays code entered.
6) Depress key.*	LCD shifts left to provide space for next code.
7) Enter final office code in range sequence (stop).*	LCD displays code entered.
8) Depress # key.	LCD is blank.
 Return to Step 5 to enter additional office codes. 	
10) Depress the HOLD key to place new data in memory.	All station 17 LEDs (except 19) go off.
 11A) Return to Step 2 in order to continue with this program or 11B) Go to Step 2 in another program table or 11C) Transfer data into working memory per 	
Paragraph 02.06.	SET LED goes off. Station 17 LED 19 goes off. New data is stored, previous data is erased.

^{*}Skip Steps 6 and 7 if only one office code in sequence is being entered.

PROGRAM 2XY TOLL RESTRICTION AREA/OFFICE CODE EXCEPTION TABLE (LCD TELEPHONE REQUIRED)

1) Lock in the SET switch on the HCAU.	SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17. LCD is blank. SPKR LED steady on.
2) Depress the SPKR key on station 17.	LCD is blank.
3) Dial 2 ☑ 1 (X = Table 1 ~ 8).	LCD displays dialed number, then shifts left to provide space for next entry (or displays current area code).
4) Enter area code.	LCD clears and displays area code entered. Binary data is shown on LEDs $00 \sim 03$.
5) Depress the HOLD key.	LCD is blank.
6) Depress the SPKR key.	SPKR LED steady on. LCD is blank.
7) Dial 2X2 (Allow), 2X3 (Deny) or 2X2 (Display) as required. (X = Restriction class 1 ~ 8.)	SPKR LED flashes continuously. LCD displays dialed number.
8) Press key.	2 X 2 = LCD is blank. 2 X 3 = LCD is blank. 2 X 4 = LCD displays all allowed codes.
Sharp of the sequence (start). 9) Enter first office code in range sequence (start). 9) Enter first office code in range sequence (start).	LCD displays code entered.
10) Depress key.*	LCD shifts left to provide space for next code.
11) Enter final office code in range sequence (stop).*	LCD displays code entered.
12) Depress # key.	LCD is blank.
13) Return to Step 5 to enter additional office codes.	
14) Depress the HOLD key to place new data in memory.	All station 17 LEDs (except 19) go off.
15A) Return to Step 2 in order to continue with this program	
15B) Go to Step 2 in another program table	
15C) Transfer data into working memory per Paragraph 02.06 .	SET LED goes off. Station 17 LED 19 goes off. New data is stored, previous data is erased.

^{*}Skip Steps 10 and 11 if only one office code in sequence is being entered.

PROGRAM 1X1 TOLL RESTRICTION CLASS AREA/OFFICE CODE EXCEPTION TABLE SELECTION

1) Lock in the SET switch on the HCAU.			SET LED on. Station 17 LED 1 System is in prog Normal functions	
2) Depress the SPKR key on station 17.			SPKR LED steady on.	
3) Dial IXI on the dial pad. (X = Restriction class 1 ~ 4, as defined in Program 6XX .)			SPKR LED flashes continuously. The various LEDs indicate present data.	
4) Refer to the System Record Sheet. Using the various keys, turn their associated LEDs on or off, as required. The detailed meaning of each key/LED is shown below. NOTE: If any key/LED is not shown, it is not used.			be on. If the LED is alreaded will turn it of	rd sheet means the LED should dy on, depressing the associated ff and vice versa. LEDs may be until the desired pattern is set.
,, ,,,	KEY/LED	LED ON	LED OFF	
•	07	Area/Office Code Table 8 Selected	Not Selected	
	06	Area/Office Code Table 7 Selected	Not Selected	
	05	Area/Office Code Table 6 Selected	Not Selected	
	04	Area/Office Code Table 5 Selected	Not Selected	
	03	Area/Office Code Table 4 Selected	Not Selected	
	02	Area/Office Code Table 3 Selected	Not Selected	
	01	Area/Office Code Table 2 Selected	Not Selected	
	00	Area/Office Code Table 1 Selected	Not Selected	
Depress the HOLD key to place new data in memory.			All station 17 LE	Ds (except 19) 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)	6C) Transfer data into working memory per Paragraph 02.06 .		SET LED goes of Station 17 LED 1 New data is store	

TABLE 36 PROGRAM 1#00 LEAST COST ROUTING HOME AREA CODE ENTRY (LCD EKT REQUIRED)

1) Lock in the SET switch on the HCAU.	SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17. LCD: PROGRAM MODE	
2) Depress the SPKR key on station 17.	SPKR LED steady on. LCD: PROGRAM NO.?	
3) Dial 🛮 🗗 🖸 🛈 on the dial pad.	SPKR LED flashes continuously. LCD: DATA = (indicates present data)	
4) Refer to the System Record Sheet. Using the dial pad, enter the system's home area code. NOTE: To clear existing data without entering a new number, depress the key once for each digit.	LCD: (displays code entered)	
5) Depress the HOLD key to place new data in memory.	All station 17 LEDs (except 19) go off.	
6A) Go to Step 2 in another program table or 6B) Transfer data into working memory per Paragraph 02.06.	SET LED goes off. Station 17 LED 19 goes off. New data is stored, previous data is erased.	

PROGRAM 1#0X LEAST COST ROUTING SPECIAL CODES (LCD EKT REQUIRED)

1) Lock in the SET switch on the HCAU.	SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17. LCD: PROGRAM MODE	
2) Depress the SPKR key on station 17.	SPKR LED steady on. LCD: PROGRAM NO.?	
 Dial ☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐	SPKR LED flashes continuously. LCD: DATA = (indicates present data)	
Refer to the System Record Sheet. Using the dial pad, enter the special code number.	LCD displays code entered.	
 Depress the HOLD key to place new data in memory. 	All station 17 LEDs (except 19) go off.	
6A) Go to Step 2 in another program table or 6B) Transfer data into working memory per Paragraph 02.06.	SET LED goes off. Station 17 LED 19 goes off. New data is stored, previous data is erased.	

PROGRAM 1#06 LEAST COST ROUTING PARAMETERS (LCD EKT REQUIRED)

1) Lock in the SET switch on the HCAU.	SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17. LCD: PROGRAM MODE
2) Depress the SPKR key on station 17.	SPKR LED steady on. LCD: PROGRAM NO.?
3) Dial 🛮 🗗 🖸 🖨 on the dial pad.	SPKR LED flashes continuously. LCD: (displays program number) Various LEDs indicate present data.
4) Refer to the System Record Sheet. Using keys 00 ~ 02, turn their associated LEDs ON or OFF, as required.	LCD displays code entered.
 Depress the HOLD key to place new data in memory. 	All station 17 LEDs (except 19) go off.
 6A) Go to Step 2 in another program table or 6B) Transfer data into working memory per Paragraph 02.06. 	SET LED goes off. Station 17 LED 19 goes off. New data is stored, previous data is erased.

PROGRAM 1#07X SELECT LONG DISTANCE INFORMATION (LDI) ROUTE (LCD EKT REQUIRED)

1) Lock in the SET switch on the HCAU.	SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17. LCD: PROGRAM MODE
2) Depress the SPKR key on station 17.	SPKR LED steady on. LCD: PROGRAM NO.?
3) Dial 🛮 🗒 🖫 on the dial pad.	SPKR LED flashes continuously. LCD: DATA = 8
4) Refer to the System Record Sheet. Using the dial pad, enter X (X = 1 ~ 8, corresponding to one of eight route table numbers).	LCD displays code entered.
 Depress the HOLD key to place new data in memory. 	All station 17 LEDs (except 19) go off.
 6A) Go to Step 2 in another program table or 6B) Transfer data into working memory per Paragraph 02.06. 	SET LED goes off. Station 17 LED 19 goes off. New data is stored, previous data is erased.

PROGRAM 1#08X SELECT LOCAL CALL ROUTE (LCD EKT REQUIRED)

1) Lock in the SET switch on the HCAU.	SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17. LCD: PROGRAM MODE
2) Depress the SPKR key on station 17.	SPKR LED steady on. LCD: PROGRAM NO.?.
3) Dial 11 10 10 on the dial pad.	SPKR LED flashes continuously. LCD: DATA = 8
4) Refer to the System Record Sheet. Using the dial pad enter X. X = 1 ~ 8, corresponding to one of eight route table numbers.	LCD displays code entered.
5) Depress the HOLD key to place new data in memory.	All station 17 LEDs (except 19) go off.
6A) Go to Step 2 in another program table or 6B) Transfer data into working memory per Paragraph 02.06.	SET LED goes off. Station 17 LED 19 goes off. New data is stored, previous data is erased.

PROGRAM 1#09 DIAL ZERO (0) TIMEOUT (LCD EKT REQUIRED)

1) Lock in the SET switch on the HCAU.	SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17. LCD: PROGRAM MODE
2) Depress the SPKR key on station 17.	SPKR LED steady on. LCD: PROGRAM NO.?
3) Dial 1 # 0 9 on the dial pad.	SPKR LED flashes continuously. LCD: (displays dialed number) An LED indicates present data.
4) Refer to the System Record Sheet. Using one key (00 ~ 03), turn its associated LED ON or OFF as required. NOTE: Only one LED may be on at a time.	An X on the record sheet means the LED should be on. Only one LED is permitted to be on; depressing an- other key will turn that LED on and turn off the pre- vious LED.
5) Depress the HOLD key to place new data in memory.	All station 17 LEDs (except 19) go off.
 6A) Go to Step 2 in another program table or 6B) Transfer data into working memory per Paragraph 02.06. 	SET LED goes off. Station 17 LED 19 goes off. New data is stored, previous data is erased.

PROGRAM 1#XY LEAST COST ROUTING AREA CODE TABLE (LCD TELEPHONE REQUIRED)

1) Lock in the SET switch on the HCAU.	SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17. LCD: PROGRAM MODE
2) Depress the SPKR key on station 17.	SPKR LED steady on. LCD: PROGRAM NO.?
3) Dial 1 2 (Allow), 1 2 3 (Delete) or 1 3 4 (Display) as required. (X = Route Table 1 ~ 8.)	SPKR LED flashes continuously. LCD: (displays dialed number)
4) Press key.	1 # X 2 LCD: DATA = 1 # X 3 LCD: DATA = 1 # X 4 LCD: (displays all allowed codes)
5) Enter first area code in range sequence (start).	LCD: (displays code entered)
6) Depress key.*	LCD: (shifts left to provide space for next code)
7) Enter final area code in range sequence (stop).*	LCD: (displays code entered)
8) Depress Akey.	Number temporarily stored.
Return to Step 5 to enter additional area codes.	
10) Depress the HOLD key to place new data in memory.	All station 17 LEDs (except 19) go off.
 11A) Return to Step 2 in order to continue with this program or 11B) Go to Step 2 in another program table or 11C) Transfer data into working memory per Paragraph 02.06. 	SET LED goes off. Station 17 LED 19 goes off. New data is stored, previous data is erased.

^{*}Skip Steps 6 and 7 if only one area code in sequence is being entered.

PROGRAM 1#X8Y LEAST COST ROUTE DEFINITION (LCD EKT REQUIRED)

1) Lock in the SET switch on the HCAU.	SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17. LCD: PROGRAM MODE
2) Depress the SPKR key on station 17.	SPKR LED steady on. LCD: PROGRAM NO.?.
3) Dial THE BY on the dial pad. X = Route Table 1 ~ 8; Y = Route Definition 1 ~ 4.	SPKR LED flashes continuously. LCD: DATA =
Refer to the System Record Sheet. Using the dial pad, enter the Route Definition number and Modified Digits Table number.	LEDs 00, 01, 02 & 03 show data in binary format. LEDs 10 & 11 indicate which digits are being displayed.
 Depress the HOLD key to place new data in memory. 	All station 17 LEDs (except 19) go off.
6A) Go to Step 2 in another program table or 6B) Transfer data into working memory per Paragraph 02.06.	SET LED goes off. Station 17 LED 19 goes off. New data is stored, previous data is erased.

PROGRAM 1#X50 \sim 53 START TIME A SCHEDULE (LCD EKT REQUIRED)

1) Lock in the SET switch on the HCAU.	SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17. LCD: PROGRAM MODE
2) Depress the SPKR key on station 17.	SPKR LED steady on. LCD: PROGRAM NO.?
3) Dial 11230 ~ 50 on the dial pad. X = Route Table 1 ~ 8.	SPKR LED flashes continuously. LCD: (displays dialed number)
4) Refer to the System Record Sheet. Enter the required data for 50 ~ 53 via the dial pad.	LCD: (displays code entered)
5) Depress the HOLD key to place new data in memory.	All station 17 LEDs (except 19) go off.
 6A) Return to Step 2 in order to continue with this program or or 6B) Go to Step 2 in another program table or or 6C) Transfer data into working memory per Paragraph 02.06. 	SET LED goes off. Station 17 LED 19 goes off. New data is stored, previous data is erased.

PROGRAM 1#X60 \sim 63 START TIME B SCHEDULE (LCD EKT REQUIRED)

1) Lock in the SET switch on the HCAU.	SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17. LCD: PROGRAM MODE
2) Depress the SPKR key on station 17.	SPKR LED steady on. LCD: PROGRAM NO.?
3) Dial THX 30 ~ 35 on the dial pad. X = Route Table 1 ~ 8.	SPKR LED flashes continuously. LCD: (displays dialed number)
4) Refer to the System Record Sheet. Enter the required data for 60 ~ 63 via the dial pad.	LCD: (displays code entered)
 Depress the HOLD key to place new data in memory. 	All station 17 LEDs (except 19) 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. 	SET LED goes off. Station 17 LED 19 goes off. New data is stored, previous data is erased.

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PROGRAM 1#X70 ~ 73 START TIME C SCHEDULE (LCD EKT REQUIRED)

1) Lock in the SET switch on the HCAU.	SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17. LCD: PROGRAM MODE
2) Depress the SPKR key on station 17.	SPKR LED steady on. LCD: PROGRAM NO.?
3) Dial TAXTO ~ TE on the dial pad. X = Route Table 1 ~ 8.	SPKR LED flashes continuously. LCD: (displays dialed number)
 Refer to the System Record Sheet. Enter the required data for 70 ~ 73 via the dial pad. 	LCD: (displays code entered)
 Depress the HOLD key to place new data in memory. 	All station 17 LEDs (except 19) 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. 	SET LED goes off. Station 17 LED 19 goes off. New data is stored, previous data is erased.

PROGRAM 1#9XY MODIFIED DIGITS TABLE (LCD EKT REQUIRED)

1) Lock in the SET switch on the HCAU.	Normal fun		n station 1	7.
2) Depress the SPKR key on station 17.	SPKR LED steady on. LCD: PROGRAM NO.?			
3) Dial TO X You the dial pad. X = Modified Digits Table 1 ~ 6, Y = (0) delete, (1) add.	SPKR LED flashes continuously. LCD: (displays dialed number) Various LEDs indicate present data.		a	
4) Refer to the System Record Sheet.	LCD: (displa	ays digits en	tered)	:
Using the dial pad: A) Delete Table: Enter the quantity of digits to		KEY/LED	PAUSE	
be deleted from the dialed number.		08	16	
B) AddTable: Enter the required modified dig-		07	14	
its to be added to the dialed number. To in- sert pauses (see table for duration in sec-		06	12	
onds) while adding digits, press the		05	10	
appropriate key when pause is required.		04	8	
NOTE:		03	6	_
Digits may be added or deleted in the same		02	4]
Modified Digits 7 able.		01	2	
 Depress the HOLD key to place new data in memory. 	All station	17 LEDs (ex	cept 19) go	o off.
6A) Return to Step 2 in order to continue with this program				
6B) Go to Step 2 in another program table				
6C) Transfer data into working memory per Paragraph 02.06.	SET LED goes off. Station 17 LED 19 goes off. New data is stored, previous data is erased.		is erased.	

PROGRAM 2#XY LEAST COST ROUTING AREA/OFFICE CODE EXCEPTION TABLE (LCD EKT REQUIRED)

1) Lock in the SET switch on the HCAU.	SET LED on. Station 17 LED 19 on. Normal functions halt on station 17. LCD: PROGRAM MODE		
2) Depress the SPKR key on station 17.	SPKR LED steady on. LCD: PROGRAM NO.?		
3) Dial 2 2 2 0 on the dial pad. X = Area/Office Code Table 1 ~ 8.	SPKR LED & LED 10 flash continuously.		
 Refer to System Record Sheet. Enter Route Table number (1 ~ 8). 	LCD: (displays table number)		
5) Depress the HOLD key.			
6) Depress the SPKR key on station 17.	SPKR LED steady on. LCD: PROGRAM NO.?		
7) Dial 2 2 3 0 on the dial pad. X = Area/Office Code Table 1 ~ 8.	LCD: (displays dialed number) then DATA =		
8) Enter Area Code via the dial pad.	LCD: (displays area code entered)		
9) Depress the HOLD key.			
10) Depress the SPKR key.	SPKR LED steady on. LCD: PROGRAM NO.?		
11) Dial 2012 (Add), 2012 (Delete), or 2012 (Display). X = Area/Office Code Table 1 ~ 8.	SPKR LED flashes continuously. LCD: (displays dialed number)		
12) Depress # key.	2 # X 2 LCD: DATA = 2 # X 3 LCD: DATA = 2 # X 4 LCD: (displays all currently programmed office codes)		
13) Enter first Area Code in range sequence (start).	LCD: (displays code entered)		
14) Depress key.*	LCD: (shifts left to provide space for next code)		
15) Enter final Area Code in range sequence (stop).*	LCD: (displays code entered)		
16) Depress 🛮 key.			
17) Return to Step 10 to enter additional Area Codes.			
18) Depress the HOLD key to place new data in memory.	All station 17 LEDs (except 19) go off.		
19A) Go to step 2 in another program table			
or 19B) Transfer data into working memory per Par- agraph 02.06 .	SET LED goes off. Station 17 LED 19 goes off. New data is stored, previous data is erased.		

^{*}Skip Steps 14 and 15 if only one area code in sequence is being entered.

PROGRAM 3XX STATION CO LINE ACCESS

1) Lock in the SET switch on the HCAU.	SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17.
2) Depress the SPKR key on station 17.	SPKR LED steady on.
3) Dial BMM on the dial pad (XX = the number of the station(s) to be programmed).	SPKR LED flashes continuously. The CO LEDs indicate present data.
 4) Refer to the System Record Sheet. Using the appropriate keys, turn their associated LEDs on or off, as required. LED ON = Access allowed. Each CO key/LED represents itself—that is, if LED 01 is on, then the station being programmed (XX) is allowed access to CO1, etc. 	An X on the record sheet means the LED should be on. If the LED is already on, depressing its associated key will turn it off and vice versa. LEDs may be turned off and on until the desired pattern is set.
 Depress the HOLD key to place new data in memory. 	All station 17 LEDs (except 19) 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. 	SET LED goes off. Station 17 LED 19 goes off. New data is stored, previous data is erased.

NOTES:

- For programming COs 18 ~ 21, see Paragraph 02.10.
 For multiple station programming, refer to Paragraph 02.20.

TABLE 50 PROGRAM 3#XX HOXB, HMDB, HTIB and HIOB ENABLE

1) Lock in the SET switch on the HCAU.			SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17.		
2) Depres	s the SPKR k	ey on station 17.	SPKR LED steady	on.	
3) Dial 🛚 🗷	XX on the d	ial pad (XX = the number be programmed).	SPKR LED flashe The various LEDs	s continuously. s indicate present data.	
4) Refer to the System Record Sheet. Using the appropriate keys, turn their associated LEDs on or off, as required. The detailed meaning of each key/LED is shown below (if any key/LED is not shown, it is not used).			An X on the record sheet means the LED should be on. If the LED is already on, depressing the associated key will turn it off and vice versa. LEDs may be turned off and on until the desired pattern is set.		
-	KEY/LED	FEATURE	LED ON	LED OFF	
	07	HIOB	Voice Mail	Normal	
1	06	HIOB Outgoing Signals	DTMF	DP	
	04	нмов	Equipped	Not Equipped	
	03	нюв	Equipped	Not Equipped	
}	02	OPX	Busy-out	No Busy Signal	
1	01	OPX/TIE Line	Equipped	Not Equipped	
	00	HIOB Circuit	Privacy	Privacy Override	
5) Depres		key to place new data in	All station 17 LE	Ds (except 19) 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 .			SET LED goes of Station 17 LED New data is stor		

NOTE:

For multiple station programming, refer to Paragraph 02.20.

PROGRAM 4XX STATION TYPE ASSIGNMENT

(This program must be completed before Program 4#XX.)

1) Lock in the SET switch on the HCAU.	SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17.
2) Depress the SPKR key on station 17.	SPKR LED steady on.
3) Dial 222 on the dial pad (XX = the number of the station(s) to be programmed).	SPKR LED flashes continuously. The CO LEDs indicate present data.
4) Refer to the System Record Sheet. Using the appropriate keys, turn their associated LEDs on or off, as required.	An X on the record sheet means the LED should be on. If the LED is already on, depressing its associated key will turn it off and vice versa. LEDs may be turned off and on until the desired pattern is set.
 Depress the HOLD key to place new data in memory. 	All station 17 LEDs (except 19) 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. 	SET LED goes off. Station 17 LED 19 goes off. New data is stored, previous data is erased.

NOTE:

For multiple station programming, refer to Paragraph 02.20.

KEY/LED	FEATURE
16	Start at CO19
15	Start at CO16
14	Start at CO13
13	Start at CO10
12	Start at CO7
11	Start at CO4
10	Start at CO1
09	Top to bottom
07	20-key pattern C
06	20-key pattern B
05	20-key pattern A
03	Single-line EKT
01	10-key EKT
00	20-key EKT

PROGRAM 4#XX STATION FLEXIBLE KEY ASSIGNMENTS (IMPORTANT! LCD EKT HIGHLY RECOMMENDED)

(Do Program 4XX for all stations before this program.)

1) Lock in the SET switch on the HCAU.	SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17.
2) Depress the SPKR key on station 17.	SPKR LED steady on.
3) Dial ☐ ☐ ☐ ☐ ☐ ☐ On the dial pad (XX = the number of the station(s) to be programmed).	SPKR LED flashes continuously.
Refer to the System Record Sheet. Depress the key to be programmed.	The feature currently assigned to the code number for that key is displayed by the LCD (see table below).
Dial in the new feature's number. The mean- ing of each feature code is shown below.	The new feature's number is displayed on the LCD (see table below).
 Continue returning to Step 4 until all desired features for the chosen station(s) are pro- grammed. 	
7) Depress the HOLD key to place new data in memory.	All station 17 LEDs (except 19) go off.
 8A) Return to Step 2 in order to continue with this program or 8B) Go to Step 2 in another program table or 8C) Transfer data into working memory per Paragraph 02.06. 	SET LED goes off.
	Station 17 LED 19 goes off. New data is stored, previous data is erased.

NOTES:

1. For multiple station programming, refer to Paragraph 02.20.

2. All codes can be assigned only once per EKT. If assigned more than once, keys become AD keys. XX = Direct Station Selection (DSS) EKT distinction.

CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
01	CO1	20	CO20	80	Modem Key
02	CO2	21	CO21	81	MSG
03	CO3	*	AD Key	82	CPU2
04	CO4	61	Pooled Line Group 1	83	CPU1
05	CO5	62	Pooled Line Group 2	84	CPU
06	CO6	63	Pooled Line Group 3	85	SAVE
07	CO7	64	Pooled Line Group 4	87	CFD
08	CO8	65	Pooled Line Group 5	88	MCO
09	CO9	66	Pooted Line Group 6	90	TONE
10	CO10	67	Pooled Line Group 7	93	PRV
11	CO11	68	Pooled Line Group 8	94	ACB
12	CO12	70	ABR	95	PAU
13	CO13	71	DP1 (Door Lock)	96	RDL
14	CO14	72	DP2 (Door Lock)	97	REP
15	CO15	73	DP3 (Door Lock)	98	DND
16	CO16	74	DP4 (Door Lock)	99	MW/FL
17	CO17	78	Modem MM/MA	#YY	DSS-BLF
18	CO18	79	Modem Ans/Call	*ZZ	Locked AD Key
19	CO19				

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TABLE 53 PROGRAM 5XX STATION CLASS OF SERVICE #1

425 1311

1) Lock in the SET switch on the HCAU.			SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17.		
2) Depress	the SPKE k	sev on station 17.	SPKR LED stead	y on.	
 2) Depress the SPKR key on station 17. 3) Dial SXX on the dial pad (XX = the number of the station(s) to be programmed). 				s indicates present da	
Using th	4) Refer to the System Record Sheet. Using the appropriate keys, turn their associated LEDs on or off, as required.			rd sheet means the L dy on, depressing the ff and vice versa. LE n until the desired pat	associated Ds may be
	KEY/LED	FEATURE	LED ON	LED OFF	
F	17	Privacy Override	Allowed	Not Allowed	
<u> </u>	16	DND Override	Allowed	Not Allowed	
	15	Executive Override	Allowed	Not Allowed	
	13	OCA Receive	Enabled	Disabled	1
I :	12	Off-hook Call Announce	Dial 2	Automatic	
l t	09	Group Page 4	Included	Not Included	
1	08	Group Page 3	Included	Not Included	
	07	Group Page 2	Included	Not Included	
	06	Group Page 1	Included	Not Included	
I	05	All Call Page	Allowed	Not Allowed	
1	- 04	Auto.Callback Warning Tone	Not Allowed	Allowed	
1	03	Handsfree Answerback	Disabled	Enabled	
	02	MIC on at start of call	On	Off	
	01	MIC key lock	Allowed	Not Allowed	
	00	Speakerphone	Enabled	Disabled	
	5) Depress the HOLD key to place new data in memory.			EDs (except 19) go off	f.
6B) Go to	 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. 		SET LED goes o Station 17 LED New data is sto		erased.

NOTE: For multiple station programming, refer to Paragraph 02.20.

SPKr # 4 9 00 01 04 05 08 09 12 13 Hold

TABLE 54 PROGRAM 5#XX STATION CLASS OF SERVICE #2

1) Lock in the SET switch on the HCAU.		SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17.			, •	
2) D	epress t	he SPKR key on station 17.	SPKR LI	ED steady on.		
3) D	ial 5#X	on the dial pad (XX = the number s) to be programmed).	The vari	ED flashes contin ious LEDs indicate	e present data.	
4) Refer to the System Record Sheet. Using the appropriate keys, turn their associated LEDs on or off, as required. If a key/LED is not shown, it is not used.			An X on the record sheet means the LED should be on. If the LED is already on, depressing the associate key will turn it off and vice versa. LEDs may be turned off and on until the desired pattern is se			ated y be
KE	EY/LED	FEATURE		LED ON	LED OFF	
	17	Alphanumeric LCD		Equipped	Not Equipped	
	16	Station-to-station Message Waiting w/L	CD	Allowed	Not Allowed	
	15	LCD Message Memory		Assigned	Not Assigned	
	14	Forced Account Code		Required	Not Required	<u> </u>
	13	Toll Restriction Override Code Change		Allowed	Not Allowed	
1	2 ~ 10	Hold Recall Time Code		_	<u>—</u>] '
	09	Automatic Busy Redial Access		Enable	Disabled	ļ
0	7 ~ 04	Automatic Off-hook Selection (94 ~ 91)		Enable	Disabled]
	03	Automatic Off-hook Selection (CO1)		Enable	Disabled	
	02	Automatic Off-hook Selection (INT)		Enable	Disabled	_
	01	Ringing Line Preference		Enable	Disabled	
	00	Automatic Dialing		Allowed	Not Allowed	
	 Depress the HOLD key to place new data in memory. 			ion 17 LEDs (exce	ept 19) 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. 		Station	D goes off. 17 LED 19 goes ata is stored, previ	off. ious data is erased.		

NOTES:

- 1. For multiple station programming, refer to Paragraph 02.20.
- 2. If a station is programmed to automatically select a trunk group (9 or 91 \sim 94), it will select the last available line in that group unless a line in that group is ringing—it will select the ringing line.

TABLE 55 **PROGRAM 6XX** STATION TOLL RESTRICTION/LCR CLASSIFICATION

1) Lock in the SET switch on the HCAU.			SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17.			
2) Depres	s the SPKR k	key on station 17.	SPKR LED st	eady on.		
		I pad (XX = the number of programmed).	SPKR LED fla An LED indic		•	
Using LED on	4) Refer to the System Record Sheet. Using the various keys, turn an associated LED 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. Only one LED may be on; depressing another key will turn that LED on and turn off the previous LED.		
	KEY/LED	FEATURE		LED ON	LED OFF	
l	12	LCR Class 3		Selected	None	
	11	LCR Class 2		Selected	None	
	10	LCR Class 1		Selected	None	į
	07	Digit-Free		Selected	None	
	06	Class 4*		Selected	None	
	05	Class 3*		Selected	None	
	04	Class 2*		Selected	None	
	03	Class 1*		Selected	None	
	02	Restrict 0 or 1 as 1st and 2nd	digit	Selected	None	
	01	Allow 1 + Office Code only		Selected	None	
	00	No Restriction		Selected		_
5) Depres memor		key to place new data in	All station 1	7 LEDs (exce	ept 19) go of	f.
•	6A) Return to Step 2 in order to continue with this program					
6B) Go to Step 2 in another program table or						
6C) Transfer data into working memory per Paragraph 02.06 .		SET LED goe Station 17 L New data is	ED 19 goes		erased.	

*NOTES:

- For multiple station programming, refer to Paragraph 02.20.
 See Toll Restriction; Programs 100, 1X1, 1XY, 1XZ, and 2XY.

PROGRAM 6#XX STATION-TO-STATION HUNTING

1) Lock in the SET switch on the HCAU.			SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17.									
2) Depress the SPKR key on station 17	7		SPI	(R L	.ED st	eady	on.					
3) Dial DEXIOn the dial pad (XX = the of the station(s) to be programmed)		ber			ED fla						data.	
4) Refer to the System Record Sheet. This program defines the station hunt destination. Dial the 2-digit number using the dial pad.					h digit s shov				ie en	try	is verified	l by
				К	ey/LEI	S	tart	1 s1	Digit	i I	2nd Digit	
				-	11	FI	ash	S	teady	_	Steady	
Binary Numbers:	1	2	3	4	5	6	7	8	9	o	_	•
03 X = LED on					\ \ \ \	X	X	X	Х	X	_	
All LEDs off = no data 01		 x	X	X	X	$\frac{\hat{x}}{x}$	÷	 		X	┪	
00	Х		Х		Х		Х		X			
 Depress the HOLD key to place new memory. 	w dat	a in			ion 17 ata is :						off. s erased.	
 6A) Return to Step 2 in order to continuous this program or or 6B) Go to Step 2 in another program or or 6C) Transfer data into working memory agraph 02.06. 	table				D goe			es of	f.			

NOTE:

For multiple station programming, refer to Paragraph 02.20.

PROGRAM 7XX STATION OUTGOING CALL RESTRICTION

1) Lock in the SET switch on the HCAU.	SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17.
2) Dep: ss the SPKR key on station 17.	SPKR LED steady on.
 Dial IXX on the dial pad (XX = the number of the station(s) to be programmed). 	SPKR LED flashes continuously. CO LEDs indicate present data.
 4) Refer to the System Record Sheet. Using the appropriate keys, turn their associated LEDs on or off, as required. LED ON = Restricted outgoing calls. Each CO key/LED represents itself—that is, if the LED 01 is on, then the station being programmed (XX) is restricted from outgoing calls on CO1, etc. 	An X on the record sheet means the LED should be on. If the LED is already on, depressing its associated key will turn it off and vice versa. LEDs may be turned off and on until the desired pattern is set.
 Depress the HOLD key to place new data in memory. 	All station 17 LEDs (except 19) 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 .	SET LED goes off. Station 17 LED 19 goes off. New data is stored, previous data is erased.

- For multiple station programming, refer to Paragraph 02.20.
 For programming COs 18 ~ 21, refer to Paragraph 02.10.

TABLE 58 PROGRAM 81XX ~ 89XX CO RINGING ASSIGNMENTS (DAY/DAY2/NIGHT)

1) Lock in the SET switch on the HCAU.	SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17.
2) Depress the SPKR key on station 17.	SPKR LED steady on.
 Dial ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	SPKR LED flashes continuously. CO LEDs indicate present data.
 4) Refer to the System Record Sheet. Using the appropriate keys, turn their associated LEDs on or off, as required. LED ON = Ringing assigned. Each CO key/LED represents itself—that is, if LED 01 is on, then the station being programmed (XX) is allowed access to CO1, etc. 	An X on the record sheet means the LED should be on. If the LED is already on, depressing its associated key will turn it off and vice versa. LEDs may be turned off and on until the desired pattern is set.
 Depress the HOLD key to place new data in memory. 	All station 17 LEDs (except 19) 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 Par- agraph 02.06 .	SET LED goes off. Station 17 LED 19 goes off. New data is stored, previous data is erased.

*1 = DAY—immediate	4 = DAY 2—immediate	7 = NIGHT—immediate
2 = DAY—12-seconds delay	5 = DAY 2—12-seconds delay	8 = NIGHT—12-seconds delay
3 = DAY—24-seconds delay	6 = DAY 2—24-seconds delay	9 = NIGHT—24-seconds delay
3 - DAI -24-30001103 00101	O B/(1 2 2 1 0000 1,00 00.0,	,

NOTES:

1. For multiple station programming, refer to Paragraph 02.20.

2. For programming COs 18 ~ 21, refer to Paragraph 02.10.

ON XXe ISSUE I software

BXX only cannot select

Type of ringing

PROGRAM 9#XX **DOOR PHONE ASSIGNMENTS**

1) Lock in the SET switch on the HCAU.	SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17.
2) Depress the SPKR key on station 17.	SPKR LED steady on.
3) Dial ☑ ☑ ☑ ☑ on the dial pad (XX = the number of the station(s) to be programmed).	SPKR LED flashes continuously. CO LEDs indicate present data.
 4) Refer to the System Record Sheet. Using the appropriate keys, turn their associated LEDs on or off, as required. LED ON = Access allowed. Each CO key/LED represents itself—that is, if LED 01 is on, then the station being programmed (XX) is allowed access to CO1, etc. 	An X on the record sheet means the LED should be on. If the LED is already on, depressing its associated key will turn it off and vice versa. LEDs may be turned off and on until the desired pattern is set.
 Depress the HOLD key to place new data in memory. 	All station 17 LEDs (except 19) 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 .	SET LED goes off. Station 17 LED 19 goes off. New data is stored, previous data is erased.

NOTES:

- For multiple station programming, refer to Paragraph 02.20.
 For programming COs 18 ~ 21, refer to Paragraph 02.10.

PROGRAM *X# FLEXIBLE ACCESS CODE NUMBERING

1) Lock in the SET switch on the H		SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17.										
2) Depress the SPKR key on station		SPK	R LE) stea	ady o	n.		<u> </u>	····	<u> </u>		
3) Dial Ma on the dial pad. (X = feature access code number		SPKR LED flashes continuously. LEDs indicate present data.										
Using the dial pad, enter the new digits of the access code.					As each digit is entered, the entry is verified by LEDs as shown below.							
		Key	//LE	D	Sta	rt	1st	Digit	2	2nd Digit		
			11							Steady		
			10	3	Flash Steady							
Binary Numb	Binary Numbers: 1 2				4	5	6	7	8	9	0	
X = LED on	03 02			+	X	X	X	X	<u>X</u>	 x -	X	ł
All LEDs off = no data	01		Х	X	 ^	 ^- -	X	x			Х	
1	00	Х		X		Х		X		X		
5) Depress the HOLD key to place new data in memory. All station 17 LEDs (except 19) go off.												
6A) Go to Step 2 in another program table or												
6B) Transfer data into working memory per Paragraph 02.06 .				SET LED goes off. Station 17 LED 19 goes off. New data is stored, previous data is erased.								

PROGRAM *XX FLEXIBLE INTERCOM NUMBERING

1) Lock in the SET switch on the HCAU.						SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17.								
2) Depress the SPKR key on station 17.						SPKR LED steady on.								
3) Dial on the dial pad (XX = the system intercom number).						SPKR LED and LED 10 flash continuously.								
Refer to the System Record Sheet. Enter the 4-digit Toll Restriction Override Codes via the dial pad.						As each digit is entered, the entry is verified by LEDs as shown below.								
	Key/LED	Start	1st Dig	2n	d Digi	t T	3rd Digit			4th Digit				
	12					.	Steady							
	11				<u></u> S	teady								
	10	Flash	Steady	r		ليـــا	_	ady	<u></u> 7	8	9	0		
Binary Numbers: 1 2						3	4	5	6	 	+ x	X	X	1
X = LED on 02					 	 	×	 x 	X	×	+^-	· ^	<u> </u>	\
ΔILLE	א = LEL Ds off = חס e		01	├	X	X	 ^	<u> </u>	X	X	+ -		X	1 .
7.11 2.2			00	X	 ^	$\frac{1}{x}$	 	T X		Х	1	Х		<u> </u>
5) Depress the HOLD key to place new data in memory. All station 17 LEDs (except 19) go off. New data is stored, previous data is erased.														
6A) Go to		another p	orogram ta	able										
6B) Transfer data into working memory per Paragraph 02.06 .				ar-	SET LED goes off. Station 17 LED 19 goes off.									

PROGRAM #1XX*YY AUTOMATIC DIALING PROGRAMMING FROM STATION 17 (Requires LCD EKT)

1) Lock in the SET switch on the HCAU.	SET LED on. Station 17 LED 19 on. System is in program mode. Normal functions halt on station 17. LCD: PROGRAM MODE
2) Depress the SPKR key on station 17.	SPKR LED steady on. LCD: PROGRAM NO.?.
3) Dial #1XX on the dial pad. XX = the number of the station(s) to be programmed (XX must = 10 for System Auto Dial).	LCD: (displays dialed digits)
4) Depress the key.	LCD: (displays dialed digits)
5) Refer to the System Record Sheet. Dial YY (YY = Auto dial code: 10 ~ 49, personal; 60 ~ 99, system).	LCD: (displays dialed digits) DATA =
6) Depress the auto dial digits (insert pauses via key 16 and flashes via key 17.	LCD: (displays dialed digits)
 Depress the HOLD key to place new data in memory. 	All station 17 LEDs (except 19) go off. LCD: DATA PROGRAMMED
 8A) Return to Step 2 in order to continue with this program or 8B) Go to Step 2 in another program table or 	
8C) Transfer data into working memory per Paragraph 02.06.	SET LED goes off. Station 17 LED 19 goes off. New data is stored, previous data is erased.

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