

# ***Strata XII & XX***

**(Release 3)**

**PROGRAMMING PROCEDURES**

**SYSTEM RECORD SHEET**



**TABLE 3**  
**(Release 3—MCAU-4)**  
**SYSTEM RECORD SHEET**

**PROGRAM 01-SYSTEM ASSIGNMENTS (Basic)**

| KEY/LED | X | LED ON  | LED OFF                                       |
|---------|---|---|---|
| CO 17   |   | Transfer Privacy                                      | Alternate point answer of transferred CO line |
| CO 16   |   | System Speed Dial (60 ~ 99) Override Toll Restriction | Restricted                                    |
| CO 15   |   | Four CO Line Groups (91 ~ 94)                         | One CO Line Group (9)                         |
| CO 14   |   | Two CO Conferencing—Inhibit                           | Allowed                                       |
| CO 7    |   | Station 17 is 10-key EKT                              | 20-key EKT                                    |
| CO 6    |   | Incoming Call Abandon—8 seconds                       | 6 seconds                                     |
| CO 5    |   | 3.0-sec. Pause After Flash                            | 1.5-sec. Pause                                |
| CO 4    |   | Insert Pause After Flash                              | No Pause                                      |
| CO 3    |   | 3.0-sec. Pause After PBX Access Code                  | 1.5 sec. Pause                                |
| CO 2    |   | 0.5-sec. Flash  | 2.0-sec. Flash                                |
| INT     |   | Tone First  | Voice First                                   |

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

**PROGRAM 02-SYSTEM ASSIGNMENTS (Options)**

| KEY/LED | X | LED ON                                    | LED OFF                  |
|---------|---|---|--------------------------|
| CO 10   |   | Station 24 is OPX                         | Stations 24 & 25 are OPX |
| CO 9    |   | Station 22 is OPX                         | Stations 22 & 23 are OPX |
| CO 8    |   | Station 20 is OPX                         | Stations 20 & 21 are OPX |
| CO 4    |   | Display the dialed number for 1 min.      | 15 seconds               |
| CO 2    |   | Night Ringing over External Page Allowed  | Not Allowed              |
| CO 1    |   | BGM over External Page Allowed            | Not Allowed              |
| INT     |   | External Page Included with All Call Page | Not Included             |

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



**PROGRAM 03-SYSTEM ASSIGNMENTS (Options)**

| KEY/LED | X | LED ON                    | LED OFF             |
|---------|---|---------------------------|---------------------|
| CO 9    |   | Station 10 [DND] key      | Station 10 [NT] key |
| CO 8    |   | Three Ring Mode           | Two Ring Mode       |
| CO 7    |   | Tenant Service*           | Non-tenant          |
| CO 6    |   | Tone First (DSS)          | Voice First (DSS)   |
| CO 4    |   | Message Center—Station 12 | Not Equipped        |
| CO 3    |   | Message Center—Station 11 | Not Equipped        |
| CO 2    |   | Message Center—Station 10 | Not Equipped        |
| CO 1    |   | DSS #2                    | Not Equipped        |
| INT     |   | DSS #1                    | Not Equipped        |

X = Select (LED on) Initialized Data: INT & CO 2 LEDs on; all other LEDs off  
 \*Tenant Service with DSS consoles #1 & #2

**NOTE:**  
 Only one message center is permitted; if more than one station is chosen as a message center, the lowest numbered station will have priority.

**PROGRAM 04-MCOU OUTPUTTING SELECTION**

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

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

**PROGRAM 05**

**AUTOMATIC RECALL FROM HOLD TIMING**

(Used only if CO 9 ~ 11 LEDs are off in Program 5XX)

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

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

**PROGRAM 0#5**

**CAMP-ON TIMEOUT**

| KEY/LED | X | TIME       |
|---------|---|------------|
| CO 3    |   | 64 seconds |
| CO 2    |   | 48 seconds |
| CO 1    |   | 32 seconds |
| INT     |   | 16 seconds |

X = Select (LED on) Initialized Data: CO 1 LED on

*stores program change in memory*

*Sphr # 9 int*

*CO1 8  
 4 9  
 5 12  
 -2- ADI led*



**PROGRAM 06**  
**AUTOMATIC RELEASE ON HOLD ENABLE**

| CO LINE | X |
|---------|---|
| CO 12   |   |
| CO 11   |   |
| CO 10   |   |
| CO 9    |   |
| CO 8    |   |
| CO 7    |   |
| CO 6    |   |
| CO 5    |   |
| CO 4    |   |
| CO 3    |   |
| CO 2    |   |
| CO 1    |   |

| CO LINE | X |
|---------|---|
| CO 21   |   |
| CO 20   |   |
| CO 19   |   |
| CO 18   |   |
| CO 17   |   |
| CO 16   |   |
| CO 15   |   |
| CO 14   |   |
| CO 13   |   |

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

**PROGRAM 07**  
**AUTOMATIC RELEASE ON HOLD TIMING**

| CO LINE | X |
|---------|---|
| CO 12   |   |
| CO 11   |   |
| CO 10   |   |
| CO 9    |   |
| CO 8    |   |
| CO 7    |   |
| CO 6    |   |
| CO 5    |   |
| CO 4    |   |
| CO 3    |   |
| CO 2    |   |
| CO 1    |   |

| CO LINE | X |
|---------|---|
| CO 21   |   |
| CO 20   |   |
| CO 19   |   |
| CO 18   |   |
| CO 17   |   |
| CO 16   |   |
| CO 15   |   |
| CO 14   |   |
| CO 13   |   |

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

**PROGRAM 08**  
**TENANT SERVICE SELECTION**

| CO LINE | X |
|---------|---|
| CO 12   |   |
| CO 11   |   |
| CO 10   |   |
| CO 9    |   |
| CO 8    |   |
| CO 7    |   |
| CO 6    |   |
| CO 5    |   |
| CO 4    |   |
| CO 3    |   |
| CO 2    |   |
| CO 1    |   |

| CO LINE | X |
|---------|---|
| CO 21   |   |
| CO 20   |   |
| CO 19   |   |
| CO 18   |   |
| CO 17   |   |
| CO 16   |   |
| CO 15   |   |
| CO 14   |   |
| CO 13   |   |

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

**PROGRAM 09—SINGLE CO LINE**  
**(DIAL 9) GROUP SELECTION (OPX, Trunk Queing)**

| CO LINE | X |
|---------|---|
| CO 12   |   |
| CO 11   |   |
| CO 10   |   |
| CO 9    |   |
| CO 8    |   |
| CO 7    |   |
| CO 6    |   |
| CO 5    |   |
| CO 4    |   |
| CO 3    |   |
| CO 2    |   |
| CO 1    |   |

| CO LINE | X |
|---------|---|
| CO 21   |   |
| CO 20   |   |
| CO 19   |   |
| CO 18   |   |
| CO 17   |   |
| CO 16   |   |
| CO 15   |   |
| CO 14   |   |
| CO 13   |   |

X (LED on) = Include in Dial 9  
 Group

Initialized Data: All LEDs on

**NOTE:**  
 Used only if CO 15 LED is off  
 in Program 01 (Single CO  
 Line Group).





**Strata XII & XX**  
**SYSTEM RECORD SHEET**  
**DECEMBER 1984**

**PROGRAM 09X**  
**FOUR CO LINE (Dial 91, 92, 93, 94)**  
**GROUP SELECTION (OPX, Trunk Queing)**

| CO LINE | GROUP |     |     |     |
|---------|-------|-----|-----|-----|
|         | 091   | 092 | 093 | 094 |
| CO 21   |       |     |     |     |
| CO 20   |       |     |     |     |
| CO 19   |       |     |     |     |
| CO 18   |       |     |     |     |
| CO 17   |       |     |     |     |
| CO 16   |       |     |     |     |
| CO 15   |       |     |     |     |
| CO 14   |       |     |     |     |
| CO 13   |       |     |     |     |
| CO 12   |       |     |     |     |
| CO 11   |       |     |     |     |
| CO 10   |       |     |     |     |
| CO 9    |       |     |     |     |
| CO 8    |       |     |     |     |
| CO 7    |       |     |     |     |
| CO 6    |       |     |     |     |
| CO 5    |       |     |     |     |
| CO 4    |       |     |     |     |
| CO 3    |       |     |     |     |
| CO 2    |       |     |     |     |
| CO 1    |       |     |     |     |

X (LED on) = Include in group  
 Initialized Data:

091—All LEDs on 092 ~ 094—All LEDs off  
 \*NOTE:

Used only if CO 15 LED is on in Program 01  
 (Four CO Line Groups).

**PROGRAM 10**  
**PBX BACKUP**

| CO LINE | X |
|---------|---|
| CO 12   |   |
| CO 11   |   |
| CO 10   |   |
| CO 9    |   |
| CO 8    |   |
| CO 7    |   |
| CO 6    |   |
| CO 5    |   |
| CO 4    |   |
| CO 3    |   |
| CO 2    |   |
| CO 1    |   |

| CO LINE | X |
|---------|---|
| CO 21   |   |
| CO 20   |   |
| CO 19   |   |
| CO 18   |   |
| CO 17   |   |
| CO 16   |   |
| CO 15   |   |
| CO 14   |   |
| CO 13   |   |

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

**PROGRAM 0#9**  
**OPL LINE HUNTING**  
**(MPLU PCB—MF-4 or DP-4)**

| CO LINE | X |
|---------|---|
| CO 12   |   |
| CO 11   |   |
| CO 10   |   |
| CO 9    |   |
| CO 8    |   |
| CO 7    |   |
| CO 6    |   |
| CO 5    |   |
| CO 4    |   |
| CO 3    |   |
| CO 2    |   |
| CO 1    |   |

| CO LINE | X |
|---------|---|
| CO 21   |   |
| CO 20   |   |
| CO 19   |   |
| CO 18   |   |
| CO 17   |   |
| CO 16   |   |
| CO 15   |   |
| CO 14   |   |
| CO 13   |   |

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

**PROGRAM 1X**  
**PBX ACCESS CODES**

| CODES   | 1st DIGIT | 2nd DIGIT |
|---------|-----------|-----------|
| #1 (11) |           |           |
| #2 (12) |           |           |
| #3 (13) |           |           |
| #4 (14) |           |           |
| #5 (15) |           |           |
| #6 (16) |           |           |
| #7 (17) |           |           |
| #8 (18) |           |           |

Enter the Access Codes (Maximum: 8)  
 Initialized Data: None

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



**PROGRAM 20**  
**TOLL RESTRICTION DISABLE**

| CO LINE | X |
|---------|---|
| CO 12   |   |
| CO 11   |   |
| CO 10   |   |
| CO 9    |   |
| CO 8    |   |
| CO 7    |   |
| CO 6    |   |
| CO 5    |   |
| CO 4    |   |
| CO 3    |   |
| CO 2    |   |
| CO 1    |   |

| CO LINE | X |
|---------|---|
| CO 21   |   |
| CO 20   |   |
| CO 19   |   |
| CO 18   |   |
| CO 17   |   |
| CO 16   |   |
| CO 15   |   |
| CO 14   |   |
| CO 13   |   |

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

**PROGRAM 2X**  
**TOLL RESTRICTION EXCEPTION CODES**

| CODES   | DIGITS |     |     |     |
|---------|--------|-----|-----|-----|
|         | 1st    | 2nd | 3rd | 4th |
| #1 (21) |        |     |     |     |
| #2 (22) |        |     |     |     |
| #3 (23) |        |     |     |     |
| #4 (24) |        |     |     |     |
| #5 (25) |        |     |     |     |

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

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



**PROGRAM 3XX—STATION CO LINE ACCESS**

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

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

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



**PROGRAM 4XX—STATION TYPE & FLEXIBLE KEY ASSIGNMENT**

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

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

X = Select (LED on) Initialized Data: INT LED on; all other LEDs off

**NOTES:**

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





**PROGRAM 5XX—STATION CLASS OF SERVICE**

| KEY/LED | FEATURE                         | STATION NUMBERS |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
|---------|---------------------------------|-----------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|--|--|--|--|--|
|         |                                 | 10              | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 |  |  |  |  |  |  |  |  |
| CO 17   | Privacy Override Allowed        |                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
| CO 16   | DND Override Allowed            |                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
| CO 11   | Hold Recall Time Code*          |                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
| CO 10   | Hold Recall Time Code*          |                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
| CO 9    | Hold Recall Time Code*          |                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
| CO 8    | MIC Push-on/Push-off            |                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
| CO 7    | Group Page #4                   |                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
| CO 6    | Group Page #3                   |                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
| CO 5    | Group Page #2                   |                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
| CO 4    | Group Page #1                   |                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
| CO 3    | Speakerphone Enable             |                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
| CO 2    | Automatic Dialing Allowed       |                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
| CO 1    | Ringling Line Preference Enable |                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |
| INT     | Include in All Call Page        |                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |

X (LED on) = Select    Initialized Data: CO 1, 2, 3 & INT LEDs on; all other LEDs off

| KEY/LED | FEATURE                         | STATION NUMBERS |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------|---------------------------------|-----------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|         |                                 | 42              | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CO 17   | Privacy Override Allowed        |                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CO 16   | DND Override Allowed            |                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CO 11   | Hold Recall Time Code*          |                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CO 10   | Hold Recall Time Code*          |                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CO 9    | Hold Recall Time Code*          |                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CO 8    | MIC Push-in/Push-off            |                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CO 7    | Group Page #4                   |                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CO 6    | Group Page #3                   |                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CO 5    | Group Page #2                   |                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CO 4    | Group Page #1                   |                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CO 3    | Speakerphone Enable             |                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CO 2    | Automatic Dialing Allowed       |                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CO 1    | Ringling Line Preference Enable |                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| INT     | Include in All Call Page        |                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

X (LED on) = Select    Initialized Data: CO 1, 2, 3, & INT LEDs on; all other LEDs off

**\*Hold Recall Time Code**

| KEY/LED | Prog. 05 | 16 Sec. | 32 Sec. | 48 Sec. | 64 Sec. | 96 Sec. | 128 Sec. | 160 Sec. |
|---------|----------|---------|---------|---------|---------|---------|----------|----------|
| CO 11   |          |         |         |         | X       | X       | X        | X        |
| CO 10   |          |         | X       | X       |         |         | X        | X        |
| CO 9    |          | X       |         | X       |         | X       |          | X        |



**PROGRAM 6XX—TOLL RESTRICTION CLASSIFICATION**

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

X (LED on) = Select    Initialized Data: No restrictions  
 \*A maximum of 29 digits allowed    \*\*A maximum of 11 digits allowed

**NOTE:**  
 See explanation in Paragraph 02.50, Program 6XX, for order of preference.

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

X (LED on) = Select    Initialized Data: No restrictions  
 \*A maximum of 29 digits allowed    \*\*A maximum of 11 digits allowed



**PROGRAM 7XX—STATION OUTGOING CALL RESTRICTION**

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

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

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



**PROGRAM 8XX—CO RINGING ASSIGNMENTS—DAY**

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

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

X (LED on) = Select    Initialized Data: Station 10, all LEDs on; all other LEDs off  
**NOTE:**  
*Each line can ring on only eight stations. If more than eight are programmed, only the eight stations with the lowest station numbers will ring.*





**PROGRAM 8#XX—CO RINGING ASSIGNMENTS—DAY 2**

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

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

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

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



**PROGRAM 9XX—CO RINGING ASSIGNMENTS—NIGHT**

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

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

X (LED on) = Select Initialized Data: Station 11, all LEDs on; all other LEDs off  
**NOTE:**  
*Each line can ring on only eight stations. If more than eight are programmed, only the eight stations with the lowest station numbers will ring.*



TABLE 10

PROGRAM 05  
AUTOMATIC RECALL FROM HOLD TIMING

(This program is used only if CO 9 ~ 11 LEDs in Program 5XX are off.)

| 1) Lock in the SET switch on the MCAU.   | SET LED on.<br>Station 17 MW/FL LED on.<br>System is in program mode.<br>Normal functions halt on station 17.   |         |        |      |             |      |             |      |            |      |            |      |            |      |            |      |            |     |           |
|--|---|---------|--------|------|-------------|------|-------------|------|------------|------|------------|------|------------|------|------------|------|------------|-----|-----------|
| 2) Depress the <b>[SPKR]</b> key on station 17.  | SPKR LED steady on.   |         |        |      |             |      |             |      |            |      |            |      |            |      |            |      |            |     |           |
| 3) Dial <b>[0][5]</b> on dial pad.   | SPKR LED flashes continuously.<br>An INT or CO LED will indicate present data.  |         |        |      |             |      |             |      |            |      |            |      |            |      |            |      |            |     |           |
| 4) Refer to the System Record Sheet.<br>Using the various keys, turn one 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.<br>Only one LED is permitted to be on, depressing another key will turn that LED on and turn off the previous LED. |         |        |      |             |      |             |      |            |      |            |      |            |      |            |      |            |     |           |
| <p><b>NOTE:</b><br/>If any key/LED is not shown, it is not used.</p> <table border="1"> <thead> <tr> <th>KEY/LED</th> <th>LED ON</th> </tr> </thead> <tbody> <tr> <td>CO 7</td> <td>160 seconds</td> </tr> <tr> <td>CO 6</td> <td>128 seconds</td> </tr> <tr> <td>CO 5</td> <td>96 seconds</td> </tr> <tr> <td>CO 4</td> <td>64 seconds</td> </tr> <tr> <td>CO 3</td> <td>48 seconds</td> </tr> <tr> <td>CO 2</td> <td>32 seconds</td> </tr> <tr> <td>CO 1</td> <td>16 seconds</td> </tr> <tr> <td>INT</td> <td>No Recall</td> </tr> </tbody> </table> |   | KEY/LED | LED ON | CO 7 | 160 seconds | CO 6 | 128 seconds | CO 5 | 96 seconds | CO 4 | 64 seconds | CO 3 | 48 seconds | CO 2 | 32 seconds | CO 1 | 16 seconds | INT | No Recall |
| KEY/LED  | LED ON  |         |        |      |             |      |             |      |            |      |            |      |            |      |            |      |            |     |           |
| CO 7   | 160 seconds   |         |        |      |             |      |             |      |            |      |            |      |            |      |            |      |            |     |           |
| CO 6   | 128 seconds   |         |        |      |             |      |             |      |            |      |            |      |            |      |            |      |            |     |           |
| CO 5   | 96 seconds  |         |        |      |             |      |             |      |            |      |            |      |            |      |            |      |            |     |           |
| CO 4   | 64 seconds  |         |        |      |             |      |             |      |            |      |            |      |            |      |            |      |            |     |           |
| CO 3   | 48 seconds  |         |        |      |             |      |             |      |            |      |            |      |            |      |            |      |            |     |           |
| CO 2   | 32 seconds  |         |        |      |             |      |             |      |            |      |            |      |            |      |            |      |            |     |           |
| CO 1   | 16 seconds  |         |        |      |             |      |             |      |            |      |            |      |            |      |            |      |            |     |           |
| INT  | No Recall   |         |        |      |             |      |             |      |            |      |            |      |            |      |            |      |            |     |           |
| 5) Depress the <b>[HOLD]</b> key to place new data in memory.  | All station 17 LEDs (except MW/FL) go off.  |         |        |      |             |      |             |      |            |      |            |      |            |      |            |      |            |     |           |
| 6A) Go to Step 2 in another program table<br>... or ...<br>6B) Transfer data into working memory per Paragraph 02.06.  | SET LED goes off.<br>Station 17 MW/FL LED goes off.<br>New data is stored, previous data is erased.   |         |        |      |             |      |             |      |            |      |            |      |            |      |            |      |            |     |           |

To store memory

PK ~~IL~~ ~~9~~ Int CO1 CO4 CO5 CO8 CO9  
CO12 A01 HOLD



TABLE 27

PROGRAM 8XX  
CO RINGING ASSIGNMENTS-DAY

|  |  |
|--|--|
| <p>1) Lock in the <b>SET</b> switch on the MCAU.</p>   | <p>SET LED on.<br/>Station 17 MW/FL LED on.<br/>System is in program mode.<br/>Normal functions halt on station 17.</p>  |
| <p>2) Depress the <b>[SPKR]</b> key on station 17.</p>   | <p>SPKR LED steady on.</p>   |
| <p>3) Dial <b>[8][X][X]</b> on the dial pad. XX = the number of the station(s) to be programmed.<br/><i>NOTE:</i><br/><i>For multiple station programming, refer to Paragraph 02.20.</i></p>   | <p>SPKR LED flashes continuously.<br/>CO LEDs indicate present data.</p>   |
| <p><i>NOTES:</i></p> <ol style="list-style-type: none"> <li>1. Any station(s) designated to ring must be allowed access via <b>Program 3XX</b>.</li> <li>2. A maximum of eight stations may be assigned to ring for any given CO line. If more are assigned, the lowest eight station numbers will ring—the others will be ignored.</li> </ol>   |  |
| <p>4) Refer to the System Record Sheet.<br/>Using the <b>[CO]</b> keys, turn their associated LEDs on or off, as required.</p> <ul style="list-style-type: none"> <li>• LED on = Ring in DAY mode.</li> <li>• Each CO key/LED represents itself—that is, if CO 1 LED is on, then the station being programmed (XX) will ring when a call comes in on CO 1 in the DAY mode, etc.</li> </ul> | <p>An X on the record sheet means the LED should be on.<br/>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.</p> |
| <p>5) Depress the <b>[HOLD]</b> key to place new data in memory.</p>   | <p>All station 17 LEDs (except MW/FL) go off.<br/>New data is stored, previous data is erased.</p>   |
| <p>6A) Return to Step 2 in order to continue with this program<br/>    ... or ...<br/>6B) Go to Step 2 in another program table<br/>    ... or ...<br/>6C) Transfer data into working memory per Paragraph 02.06.</p>  | <p>SET LED goes off.<br/>Station 17 MW/FL LED goes off.</p>  |





TABLE 28  
PROGRAM 8#XX  
CO RINGING ASSIGNMENTS-DAY 2

|   |  |
|---|--|
| <p>1) Lock in the SET switch on the MCAU.</p>   | <p>SET LED on.<br/>Station 17 MW/FL LED on.<br/>System is in program mode.<br/>Normal functions halt on station 17.</p>  |
| <p>2) Depress the [SPKR] key on station 17.</p>   | <p>SPKR LED steady on.</p>   |
| <p>3) Dial [8][#][X][X] on the dial pad. XX = the number of the station(s) to be programmed.<br/><i>NOTE:</i><br/><i>For multiple station programming, refer to Paragraph 02.20.</i></p>  | <p>SPKR LED flashes continuously.<br/>CO LEDs indicate present data.</p>   |
| <p><i>NOTES:</i><br/>1. Any station(s) designated to ring must be allowed access via <b>Program 3XX</b>.<br/>2. A maximum of eight stations may be assigned to ring for any given CO line. If more are assigned, the lowest eight station numbers will ring—the others will be ignored.</p>   |  |
| <p>4) Refer to the System Record Sheet.<br/>Using the [CO] keys, turn their associated LEDs on or off, as required.</p> <ul style="list-style-type: none"> <li>• LED on = Ring in DAY 2 mode.</li> <li>• Each CO key/LED represents itself—that is, if CO 1 LED is on, then the station being programmed (XX) will ring when a call comes in on CO 1 in the DAY 2 mode, etc.</li> </ul> | <p>An X on the record sheet means the LED should be on.<br/>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.</p> |
| <p>5) Depress the [HOLD] key to place new data in memory.</p>   | <p>All station 17 LEDs (except MW/FL) go off.<br/>New data is stored, previous data is erased.</p>   |
| <p>6A) Return to Step 2 in order to continue with this program<br/>    ... or ...<br/>6B) Go to Step 2 in another program table<br/>    ... or ...<br/>6C) Transfer data into working memory per Paragraph 02.06.</p>   | <p>SET LED goes off.<br/>Station 17 MW/FL LED goes off.</p>  |



TABLE 29

PROGRAM 9XX  
CO RINGING ASSIGNMENTS-NITE

|  |  |
|--|--|
| <p>1) Lock in the SET switch on the MCAU.</p>  | <p>SET LED on.<br/>Station 17 MW/FL LED on. em is in program mode.<br/>Normal functions halt on station 17.</p>  |
| <p>2) Depress the [SPKR] key on station 17.</p>  | <p>SPKR LED steady on.</p>   |
| <p>3) Dial [9][X][X] on the dial pad. XX = the number of the station(s) to be programmed.<br/><i>NOTE:</i><br/><i>For multiple station programming, refer to Paragraph 02.20.</i></p>  | <p>SPKR LED flashes continuously.<br/>CO LEDs indicate present data.</p>   |
| <p><i>NOTES:</i><br/>1. Any station(s) designated to ring must be allowed access via Program 3XX.<br/>2. A maximum of eight stations may be assigned to ring for any given CO line. If more are assigned, the lowest eight station numbers will ring—the others will be ignored.</p>   |  |
| <p>4) Refer to the System Record Sheet. Using the [C<sub>O</sub>] keys, turn their associated LEDs on or off, as required.</p> <ul style="list-style-type: none"> <li>• LED on = Ring in NITE mode.</li> <li>• Each CO key/LED represents itself—that is, if CO 1 LED is on, then the station being programmed (XX) will ring when a call comes in on CO 1 in the NITE mode, etc.</li> </ul> | <p>An X on the record sheet means the LED should be on.<br/>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.</p> |
| <p>5) Depress the [HOLD] key to place new data in memory.</p>  | <p>All station 17 LEDs (except MW/FL) go off. New data is stored, previous data is erased.</p>   |
| <p>6A) Return to Step 2 in order to continue with this program<br/>    ... or ...<br/>6B) Go to Step 2 in another program table<br/>    ... or ...<br/>6C) Transfer data into working memory per Paragraph 02.06.</p>  | <p>SET LED goes off.<br/>Station 17 MW/FL LED goes off.</p>  |



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

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

- 1) If the system is not in service, release the SET switch on the MCAU, and cycle (rock) the MPRU power switch off and on to transfer all data into the main data memory. Note, all calls are dropped when this occurs.
- 2) If the system is in service and no calls should be dropped, depress the following keys, in the order given here, on station 17: **SPRA** **9** **INT** **CO 1** **CO 4** **CO 3** **CO 8** **CO 9** **CO 12** **CO 13** **HOLD**. This code will secure the data in working memory without cancelling any calls. Release the SET switch on the MCAU.

02.10 Programming CO 18~21

02.11 Some Type 1 programs use the CO key/LEDs to represent themselves. The EKT at station 17 has a maximum of 17 CO line keys in a SERIES XX system. In order to program CO 18~21, it is necessary to dial a **9** after the first digit of the program number. CO key/LEDs 1~4 will then function as CO 18~21. For example:

For Program 04: Dial **0** **9** **4**

For Program 7XX: Dial **7** **9** **X** **X**

02.20 Multiple Station Programming

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

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

The codes are:

- 0 0** : All stations
- 0 1** : Stations 10~17
- 0 2** : Stations 18~25
- 0 3** : Stations 26~33
- 0 4** : Stations 34~41
- 0 5** : Stations 42~49
- 0 6** : Stations 50~57
- 0 7** : Stations 58~65

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

Steady LED: Data is the same for all stations in dialed group.

Flashing LED: Data is selected for at least one, but not all stations in that group.

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

LED on: Selects LED "ON" for all the stations in the group.

LED off: Selects LED "OFF" for all the stations in the group.

LED flash: No change to any station in the group.

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

02.30 Preparation

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

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



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

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

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

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

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

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

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

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

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

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

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

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

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

**SXX Program—Station Class of Service**

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

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

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

**NOTE:**

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

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

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

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

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

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

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

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

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

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

**6XX Program—Toll Restriction Classification**

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





be made for each station:

- 1) Mark an X next to CO 13 if the station will be allowed to dial the #5 4-digit exception code.
- 2) Mark an X next to CO 12 if the station will be allowed to dial the #4 4-digit exception code.
- 3) Mark an X next to CO 11 if the station will be allowed to dial the #3 4-digit exception code.
- 4) Mark an X next to CO 10 if the station will be allowed to dial the #2 4-digit exception code.
- 5) Mark an X next to CO 9 if the station will be allowed to dial the #1 4-digit exception code.
- 6) Mark an X next to CO 8 if the station will be allowed to dial 411.
- 7) Mark an X next to CO 7 if the station will be allowed to dial 911.
- 8) Mark an X next to CO 6 if the station will be allowed to dial 800.

**NOTE:**

*A maximum of eleven digits are allowed if 411, 911, 800 or Exception Code #1, 2 or 3 was dialed first. A maximum of 29 digits are allowed if Exception Code 4 or 5 was dialed first.*

- 9) Mark an X next to CO 5 if the station will be restricted from dialing 0 as the first number.
- 10) Mark an X next to CO 4 if the station will be restricted from dialing 0 as the second number.
- 11) Mark an X next to CO 3 if the station will be restricted from dialing 1 as the first number.
- 12) Mark an X next to CO 2 if the station will be restricted from dialing 1 as the second number.
- 13) Mark an X next to CO 1 if the station will be allowed to dial 1 + 7-digit number.
- 14) Mark an X next to INT if the station will be restricted to dialing 7-digit numbers.

**NOTES:**

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

**7XX Program—Station Outgoing Restriction**

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

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

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

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

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

**NOTE:**

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

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

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

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







## 01 INTRODUCTION

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

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

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

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

**NOTE:**

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

## 02 PROGRAMMING PROCEDURES

### 02.00 General

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

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

**NOTE:**

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

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

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

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

**Type 1 programs:**

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

**Type 2 programs:**

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

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

**Type 1 program:**

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

**Type 2 program:**

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

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

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



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