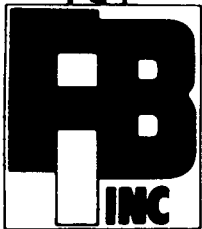


MODEL  
**XL1218**

# **Expanded Formats**

( INCLUDING 4 + 2 FORMAT )



**FIRE BURGLARY INSTRUMENTS<sup>TM</sup> INC.**

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## **"WE DO WHAT THEY DON'T"**

# Expanded Formats

This section of the booklet should be read in conjunction with the QUAD SWITCH PLANNING SHEET #II and the Quad 1, 2 and 3,4 programming sheets.

ER: The digital communicator in this device is capable of reporting multiple codes for several different events on each of its channels. If several events happen simultaneously or during the time period it takes for one phone call to the Central Office, ALL events that happened will be reported, in priority order.

UAL: In the event that some or all of zones 1-4 are programmed as controlled (burglary zones) for example, the Central Office may have only one ACTUAL ALARM CODE set aside for burglary. (Example burglary code 3). If UAL is programmed, the digital dialer will report code 3 for burglary followed by which zone of burglary was violated, provided the Central Office will accept this format. This will allow for individual zone reporting. The following example would be a print out actually received by the Central Office in the event UAL was programmed:

|             |                     |          |                         |
|-------------|---------------------|----------|-------------------------|
| first       | 123                 | 3        | Central Office receives |
|             | 123                 | 3        | 123= John Smith         |
|             | Subscribers account | Burglary | code 3= Burglary        |
|             | number              |          | 333= Burglary           |
| followed by | 333                 | 1        | Code 1 = Zone 1         |
|             | 333                 | 1        |                         |
|             | Burglary            | Zone 1   |                         |

UT: Depending how zones 1-4 are programmed, as controlled, 24 hr alarm, or 24 hr trouble zones, each zone may transmit trouble codes. Controlled zones (burglary zones) can be programmed to send a trouble transmission while the system is unarmed if a zone is bypassed, etc., 24 hr trouble zones will send trouble transmissions 24 hrs a day if violated. 24 hr alarm zones CAN NOT send trouble codes. As previously explained in UAL, some Central Offices have only one code for any trouble signal, therefore, universal trouble (UT) will allow the Central Office to distinguish what zone is sending trouble. The Central Office will receive the trouble codes exactly as the UAL FORMAT of this booklet has described.

UR: When and if the Central Office has only one code dedicated for restore of all zones, UR will allow individual restorals by zone as described in UAL and UT. Example: Code 9 restore.

|                    |              |
|--------------------|--------------|
| 123                | 9            |
| 123                | 9            |
| Subscriber account | Restore Code |
| number             |              |
| 999                | 1            |
| 999                | 1            |
| Restore            | Zone 1       |

The Central office will receive the data shown above that will indicate which zone has been restored.

UA: This is the same format as UR when the Central Office has one code dedicated as an abort code. If abort code on abort is selected for any of the zones, this format will allow the Central Office to distinguish which zone was aborted.

UC,  
 UO: This is basically the same format as the others, in the event that multiple  
 EC, closing and opening signals are desired. This system is capable of 4 different  
 EO: closing and opening signals. See "How to program UC, UO, or EC, EO."

## HOW TO PROGRAM EXPANDED FORMATS

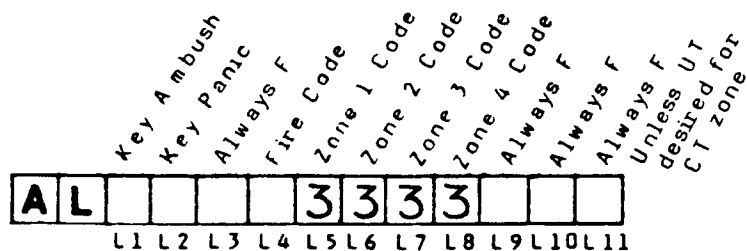
### FORMAT A

UAL : If UAL is desired, the following steps must be taken: (A) Program an appropriate DIGIT in QUAD 1, AF FIELD, LOCATION L2 which selects the UAL, UT, UR, UA, ER formats. (B) Program an appropriate DIGIT in QUAD 2, AF FIELD, LOCATION L1 which selects QUAD SWITCHING. (C) Program the appropriate UNIVERSAL ALARM CODE (Example: Code 3) in QUAD 1, AL FIELD ALL LOCATIONS that apply for ALL zones desired to send this UAL format.

If code 3 is the only burglary code used by the Central Office, all zones desired to send this Burg code should be programmed number 3 in their appropriate locations.

EXAMPLE:

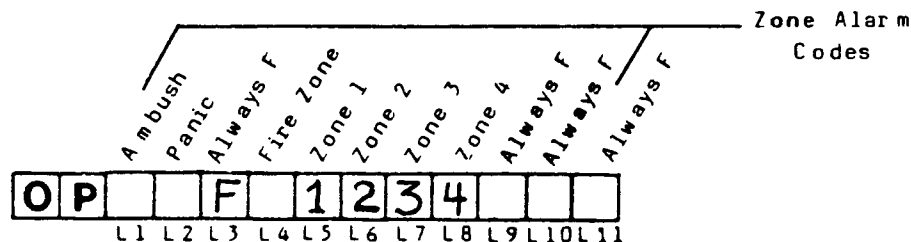
QUAD 1



(D) Program the appropriate ZONE ALARM CODES in QUAD 3 OP, field, all LOCATIONS that apply for ALL ZONES desired to send this UAL Format. Program a different ZONE code for each zone that is desired to send UAL format. Any zone may have any zone code. Any zones NOT desired to send UAL Format should have their locations in QUAD 3, OP field programmed F. All locations which do not apply must be programmed F.

EXAMPLE:

QUAD 3



The following is an example print out the Central Office would receive if zone 1 was violated if the example program was used.

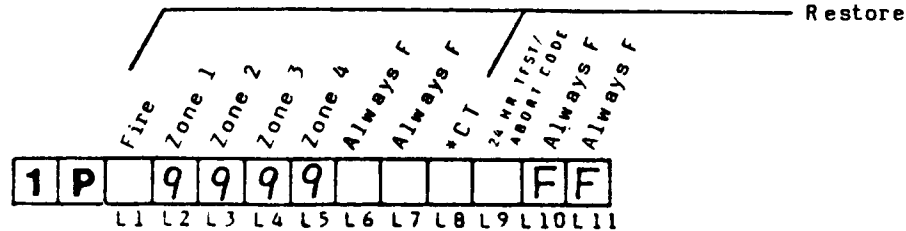
|                  |                 |
|------------------|-----------------|
| 123              | 3               |
| 123              | 3               |
| Subs. Acct. Code | Burglary Code   |
| 333              | 1               |
| 333              | 1               |
| Burglary         | Zone Alarm Code |

UT: If UT is desired and UAL IS desired complete the UAL PROGRAM section above, and program the appropriate UNIVERSAL TROUBLE CODE in QUAD 2, OP field, ALL LOCATIONS that apply, for ALL ZONES desired to send the UT FORMAT. The ZONE ALARM CODES previously programmed in Quad 3 OP field will designate which zone is sending trouble. (NOTE: If the common trouble zone will be sending UT format the C.T. zone alarm code must be put in Quad 1, AL field, location L11.)

UR: If UR and UAL are desired complete the UAL section and program the appropriate UNIVERSAL RESTORE CODE (Example Code 9) in QUAD 2, 1P FIELD, ALL LOCATIONS that apply for ALL ZONES desired to send the UR format. The ZONE ALARM CODES previously programmed in Quad 3 OP field will designate which zone is sending restore.

Example:

Quad 2



UA: If UA and UAL are desired complete the UAL section and program the appropriate UNIVERSAL ABORT CODE in QUAD 2, 1P FIELD, location L9. The ZONE ALARM CODES previously programmed in Quad 3, OP field will designate which zone has aborted.

At this point if the UAL format is desired, but UC (Universal Closing) and UO (Universal Opening) is NOT, program QUAD 3 on the 110 programmer as follows:

Program the appropriate ZONE ALARM CODES in the OP field, Quad 3, all respective locations that apply for zones desired to send the UAL format. All zones or channels of the communicator such as keypad ambush, keypad panic, fire zone etc. which MIGHT NOT be desired to report in this format should be programmed with an F in their locations. ALL other fields in this quadrant (1P, 2P, 3P, AF, FF, AC, & AL) MUST be left completely blank. Furthermore, ALL fields in QUADRANT 4 MUST be programmed blank. This can be accomplished by removing the prom from the prom socket AFTER programming Quad 3, set the Quad switches 7 & 8 to the north position; Depress the ENTER switch, then #0. Reinsert the prom into the socket on the 110 and depress the program switch. Finish should appear in the LED display.

NOTE: R68 Resistor Jumper on the XL1218 must NOT be cut when the UAL format is used.

## FORMAT B

If ER, UT, UR, & UA, or any combination of these formats are desired, but UAL is NOT desired complete the following: (A) Program an appropriate digit in QUAD 1, AF field, location 2, which will select ER, UR, UT, UA and UAL. (B) Program the appropriate UNIVERSAL TROUBLE CODE in QUAD 2, OP field, ALL LOCATIONS THAT APPLY for all zones desired to send the UT format. (C) Program the appropriate UNIVERSAL RESTORE CODE in QUAD 2, 1P field, ALL LOCATIONS THAT APPLY for all zones desired to send the UR format. (D) Program the appropriate UNIVERSAL ABORT CODE in QUAD 2, 1P field, location L9. (All zones which have been programmed as Abort Code on Abort will send the UA format.) The actual ZONE CODES will be the same as the ZONE ALARM CODES which have been programmed in QUAD 1, AL field, corresponding zone locations. IT WILL NOT BE NECESSARY TO PROGRAM QUAD 3 OR QUAD 4 AT ALL WITH THIS FORMAT.

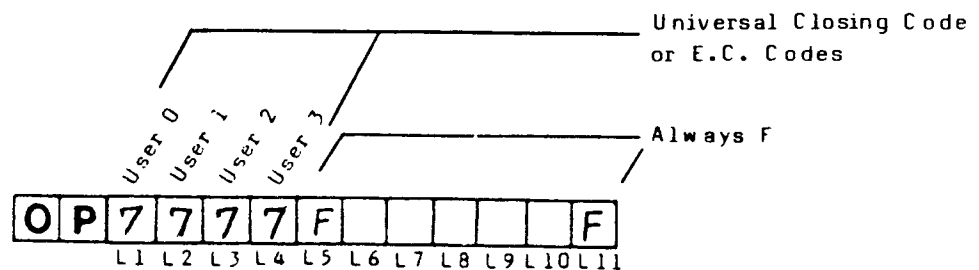
## HOW TO PROGRAM UC, UO, or EC, EO

The XL1218 is capable of reporting 4 individual closing codes and 4 individual opening codes, on locations where multiple personnel will be arming and disarming this system. There is two methods which can accomplish this individual reporting. The first is UC & UO which MUST be programmed as follows if desired.

- Step A. Program an F in Quadrant 2, OP field, locations L1 & L2 (printed on the Quad 1 & 2 program sheet as closing code and opening code).  
NOTE: If these two locations have codes, all users which do not have individual codes in their respective locations will report these codes when arming & disarming.
- Step B. Program an appropriate digit in Quad 2, AF field, location L1 which selects QUAD SWITCHING.
- Step C. Program an appropriate digit in Quad 2, AF field location L2 which selects UC & UO or EC and EO.
- Step D. Program in QUAD 3, AC field the SAME 3 DIGIT SUBSCRIBER ACCOUNT NUMBER that was programmed in Quad 1, AC field. (ALL OTHER fields in Quad 3 must be left blank UNLESS UAL is also desired.)
- Step E. Program the UNIVERSAL CLOSING CODE (CENTRAL OFFICE may have only 1 closing code. Example code 7) in Quad 4, OP field, ALL LOCATIONS that apply to all USERS of this system.

Example:

Quad 4



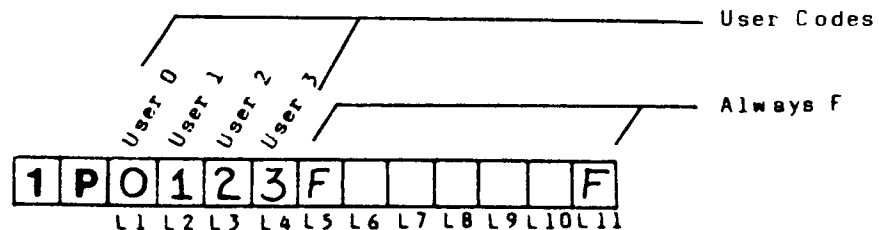
Program an F in all locations that are not desired and all locations indicated.

NOTE: User 0 can be programmed ONLY if keypad ambush is NOT used.

- Step F. Program the appropriate USER CODES in Quad 4, IP field, all locations that apply for all users of this system.

Example:

Quad 4



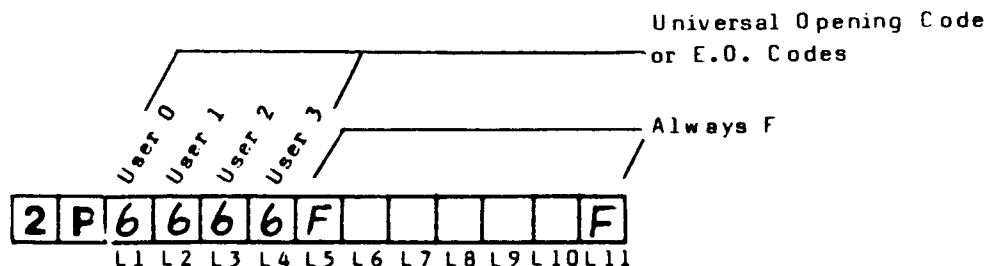
Program an F in all locations not desired and all locations indicated. The following is an EXAMPLE of what the Central Office will receive in the event User 2 arms the system. Subscriber code 1, 2, 3.

|            |         |
|------------|---------|
| 123        | 7       |
| 123        | 7       |
| Subs. Code | Closing |
| 777        | 2       |
| 777        | 2       |
| Closing    | User 2  |

Step G. Program the UNIVERSAL OPENING CODE in Quad 4, 2P field, ALL LOCATIONS that apply to all users of this system. (Central Office may have only 1 opening code, example: code 6).

Example:

Quad 4



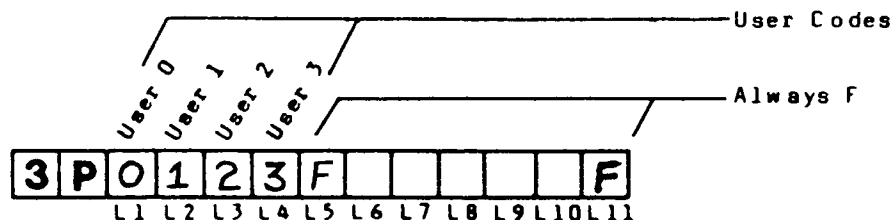
Program an F in all locations that are not desired, and all locations indicated.

NOTE: User 0 can be programmed ONLY if keypad ambush is NOT used.

Step H. Program the appropriate USER CODES in Quad 4, 3P field, all locations that apply for all users of this system.

Example:

Quad 4



Program an F in all locations not desired and all locations indicated. The following is an EXAMPLE of what the Cental Office will receive in the event user 2 disarms the system.

|          |         |
|----------|---------|
| 123      | 6       |
| 123      | 6       |
| Sub Code | Opening |
| 666      | 2       |
| 666      | 2       |
| Opening  | User 2  |

Step I. Program in Quad 4, AC field the SAME 3 digit subscriber ACCOUNT NUMBER that was programmed in Quad 1, AC field.

Step J. The last step for this format is to leave the AF, FF, and AL FIELDS of Quad 4 blank.

EC and EO

EXPANDED CLOSING and EXPANDED OPENING is the second format which can be used so that individual closing and opening codes can be reported to the Central Office if multiple personel are arming and disarming this system. However, it will be necessary for the CENTRAL OFFICE to allocate 3 SUBSCRIBER ACCOUNT NUMBERS for each system with this format. One ACCOUNT number for all the zones of this system, one CLOSING ACCOUNT number, and one OPENING ACCOUNT NUMBER. Program this format as follows:

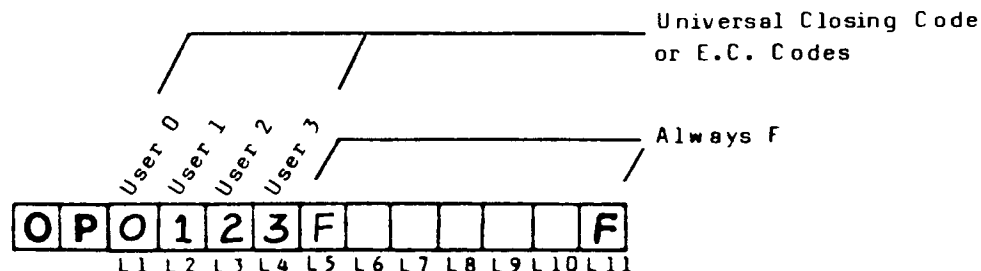
Step A. Program an F in Quadrant 2, OP field, locations L1 & L2 (printed on the Quad 1 & 2 program sheet as closing code and opening code.

NOTE: If these two locations have codes, all users which do not have individual codes in their respective locations will report these codes when arming & disarming.

- Step B. Program an appropriate digit in Quad 2, AF field, location L1 which selects QUAD SWITCHING.
- Step C. Program an appropriate digit in Quad 2, AF field, location L2 which selects UC & UO or EC and EO.
- Step D. Program a 3 digit CLOSING ACCOUNT NUMBER in Quad 3, AC field, locations L1, L2 & L3. This account number should be different from the subscriber account number which was programmed in Quad 1, AC field. (NOTE: All other fields in Quad 3 should be left blank UNLESS UAL IS DESIRED.)
- Step E. Program in Quad 4, OP field, a different EC code for each location that applies for all users of this system. (NOTE: User 0 code can be programmed ONLY if keypad ambush is not used.)

Example:

Quad 4



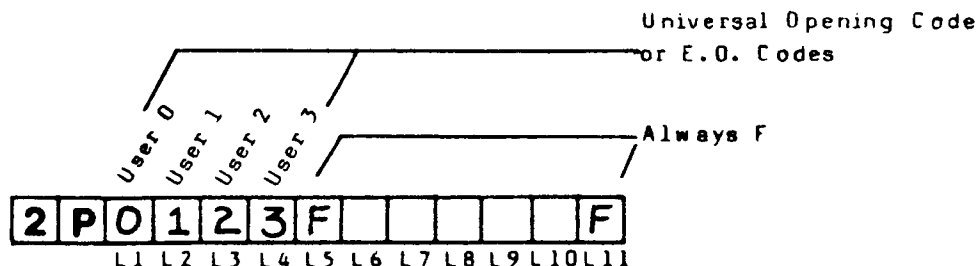
Program an F in all locations not desired and all locations indicated. The following is an EXAMPLE of what the Central Office will receive if user 2 arms the system, with CLOSING ACCOUNT NUMBER 1, 2, 4.

|               |        |
|---------------|--------|
| 124           | 2      |
| 124           | 2      |
| Closing Acct. | User 2 |

- Step F. Program in Quad 4, 2P field, a different EO code for each location that applies for all users of this system.

Example:

Quad 4



Program an F in all locations not desired and all locations indicated.

- Step G. Program in Quad 4, AC field locations L1, L2, & L3 a 3 digit OPENING ACCOUNT NUMBER. This number should be different from the original subscriber account number which was programmed in Quad 1, AC field, and different from the CLOSING ACCOUNT NUMBER which was programmed in Quad 3, AC field.
- Step H. The last step in this procedure is to leave fields 1P, 3P, AF, FF and AL blank.

NOTE: R68 on the XL1218 must NOT be cut when the UC, UO or EC, EO formats are desired.

(Double Alarm Digits)



NOTE: All zones selected as 24 hr Trouble Zones and the Common Trouble Zone must have their Trouble Codes programmed in these fields. All zones which have been selected as Controlled Zones, that will report Trouble Codes (Bypass) must have their Trouble Codes entered in these fields. All zones not desired to send Trouble Codes must have their respective locations programmed F.

NOTE: The L1 & L2 closing & opening locations of both fields may be programmed in the event only one closing and one opening report is desired when any user arms and disarms the system. If multiple closing and openings are desired, the L1 & L2 LOCATIONS of BOTH FIELDS MUST be programmed F, or else all users of this system which do not have individual codes programmed in Quad 4 will report these codes.

Step G: To program the RESTORE CODES, 24 HR TEST CODE, and the ABORT CODE for all zones desired, Digit 1 of all codes must be entered in QUAD 2, 1P FIELD, all respective locations. Digit 2 of all codes must be entered in QUAD 3, 2P FIELD, all CORRESPONDING locations. See example.

Example:

|         |               |                |                |                |                |          |          |            |                 |            |          |          |
|---------|---------------|----------------|----------------|----------------|----------------|----------|----------|------------|-----------------|------------|----------|----------|
| QUAD 2  | FIRE RESTORE  | ZONE 1 RESTORE | ZONE 2 RESTORE | ZONE 3 RESTORE | ZONE 4 RESTORE | ALWAYS F | ALWAYS F | CT RESTORE | 24 HR TEST CODE | ABORT CODE | ALWAYS F | ALWAYS F |
| DIGIT 1 | 1             | P              | 9              | 9              | 9              | 9        | F        | F          | 9               | 9          | F        | F        |
|         | RESTORE CODES |                |                |                |                |          |          |            |                 |            |          |          |

|         |               |                |                |                |                |          |          |            |                 |            |          |          |
|---------|---------------|----------------|----------------|----------------|----------------|----------|----------|------------|-----------------|------------|----------|----------|
| QUAD 3  | FIRE RESTORE  | ZONE 1 RESTORE | ZONE 2 RESTORE | ZONE 3 RESTORE | ZONE 4 RESTORE | ALWAYS F | ALWAYS F | CT RESTORE | 24 HR TEST CODE | ABORT CODE | ALWAYS F | ALWAYS F |
| DIGIT 2 | 2             | P              | 9              | 1              | 2              | 3        | 4        | F          | F               | 7          | 8        | F        |
|         | RESTORE CODES |                |                |                |                |          |          |            |                 |            |          |          |

In the example above the zone 2 Restore Code is 92, the abort code is 98. The Abort Code will be sent for all zones programmed as Abort Code on Abort in QUAD 2, 2P FIELD.

NOTE: All zones which are not desired to report restore codes MUST have their respective locations in both fields programmed F. The L6, L7, L10 & L11 locations in both fields must always be programmed F.

Step H: If MULTIPLE closing & opening codes by user are NOT desired, the remaining fields of QUAD 3, and all fields of QUAD 4 must be programmed blank, and the R68 resistor jumper MUST NOT be cut.

Step I: If multiple Closing & Opening Codes are desired (DOUBLE ALARM DIGITS), program the same 4 digit subscriber account number in QUAD 3, AC FIELD LOCATIONS L1-L4, that was programmed in QUAD 1 AC FIELD. All other fields in QUAD 3 MUST be programmed blank except OP, 1P & 2P as explained above.

Step J: To program the CLOSING CODES for multiple users desired, Digit 1 of all codes MUST be entered in QUAD 4, OP FIELD, all respective locations. DIGIT 2 of all codes must be entered in QUAD 4 1P field, all CORRESPONDING locations for all users desired. See example.

Example:

|         |               |        |        |        |          |   |   |   |   |   |   |   |
|---------|---------------|--------|--------|--------|----------|---|---|---|---|---|---|---|
| QUAD 4  | USER 0        | USER 1 | USER 2 | USER 3 | ALWAYS F |   |   |   |   |   |   |   |
| DIGIT 1 | 0             | P      | 6      | 6      | 6        | 6 | F | F | F | F | F | F |
|         | CLOSING CODES |        |        |        |          |   |   |   |   |   |   |   |

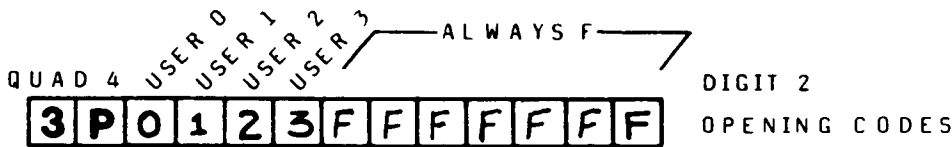
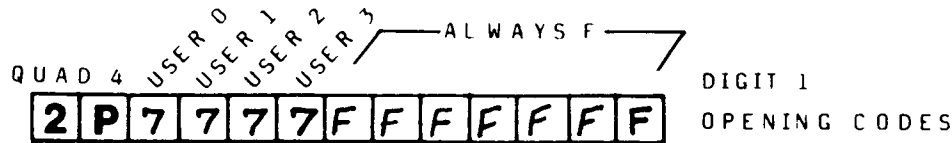
|         |               |        |        |        |          |   |   |   |   |   |   |   |
|---------|---------------|--------|--------|--------|----------|---|---|---|---|---|---|---|
| QUAD 4  | USER 0        | USER 1 | USER 2 | USER 3 | ALWAYS F |   |   |   |   |   |   |   |
| DIGIT 2 | 1             | P      | 0      | 1      | 2        | 3 | F | F | F | F | F | F |
|         | CLOSING CODES |        |        |        |          |   |   |   |   |   |   |   |

In the example above, user 2's CLOSING CODE is 62, user 3's CLOSING CODE is 63.

NOTE: If Keypad Ambush is used, locations L1 in both of these fields (user 0) must be programmed F.

Step K: To program the OPENING CODES for multiple users desired, Digit 1 of all codes MUST be entered in QUAD 4, 2P FIELD, all respective locations. Digit 2 of all codes must be entered in QUAD 4, 3P field, all corresponding locations for all users desired. See example.

Example:



In the example above, user 2's OPENING CODE is 72, user 3's OPENING CODE is 73.

NOTE: If Keypad Ambush is used, location L1 in both fields must be programmed F.

Step L: Program the same 4 digit subscriber account number in QUAD 4, AC FIELD locations L1-L4, that was previously programmed in QUAD 1 AC FIELD.

Step M: All other fields in QUAD 4 must be left blank and the R68 resistor jumper MUST NOT be cut.

# DOUBLE DIGIT CODES PROGRAMMING SHEET

## QUADRANT 1

Common Phone Prefix

|    |    |    |    |    |    |    |    |    |     |     |  |  |  |  |  |
|----|----|----|----|----|----|----|----|----|-----|-----|--|--|--|--|--|
| O  | P  |    |    |    |    |    |    |    |     |     |  |  |  |  |  |
| L1 | L2 | L3 | L4 | L5 | L6 | L7 | L8 | L9 | L10 | L11 |  |  |  |  |  |

1st Phone

|    |    |    |    |    |    |    |    |    |     |     |  |  |  |  |  |
|----|----|----|----|----|----|----|----|----|-----|-----|--|--|--|--|--|
| 1  | P  |    |    |    |    |    |    |    |     |     |  |  |  |  |  |
| L1 | L2 | L3 | L4 | L5 | L6 | L7 | L8 | L9 | L10 | L11 |  |  |  |  |  |

2nd Phone

|    |    |    |    |    |    |    |    |    |     |     |  |  |  |  |  |
|----|----|----|----|----|----|----|----|----|-----|-----|--|--|--|--|--|
| 2  | P  |    |    |    |    |    |    |    |     |     |  |  |  |  |  |
| L1 | L2 | L3 | L4 | L5 | L6 | L7 | L8 | L9 | L10 | L11 |  |  |  |  |  |

3rd Phone

|    |    |    |    |    |    |    |    |    |     |     |  |  |  |  |  |
|----|----|----|----|----|----|----|----|----|-----|-----|--|--|--|--|--|
| 3  | P  |    |    |    |    |    |    |    |     |     |  |  |  |  |  |
| L1 | L2 | L3 | L4 | L5 | L6 | L7 | L8 | L9 | L10 | L11 |  |  |  |  |  |

# Attempts

Receiver Kiss Off

(DO NOT SELECT UR, UT, UAL, UA IN AF L2).

|    |    |  |  |
|----|----|--|--|
| A  | F  |  |  |
| L1 | L2 |  |  |

Receiver 1 Type

Receiver 2 Type

Receiver 3 Type

|    |    |    |  |  |
|----|----|----|--|--|
| F  | F  |    |  |  |
| L1 | L2 | L3 |  |  |

Account Number

|    |    |    |    |  |  |
|----|----|----|----|--|--|
| A  | C  |    |    |  |  |
| L1 | L2 | L3 | L4 |  |  |

DIGIT 1

ALARM CODES

|    |    |    |    |    |    |    |    |    |     |     |   |   |   |   |   |
|----|----|----|----|----|----|----|----|----|-----|-----|---|---|---|---|---|
| A  | L  |    |    | F  |    |    |    |    |     | F   | F | F | F | F | F |
| L1 | L2 | L3 | L4 | L5 | L6 | L7 | L8 | L9 | L10 | L11 |   |   |   |   |   |

\*CT = COMMON TROUBLE

## QUADRANT 2

DIGIT 1

TROUBLE CODES

|    |    |    |    |    |    |    |    |    |     |     |  |   |  |  |  |
|----|----|----|----|----|----|----|----|----|-----|-----|--|---|--|--|--|
| O  | P  |    |    | F  |    |    |    |    | F   | F   |  | F |  |  |  |
| L1 | L2 | L3 | L4 | L5 | L6 | L7 | L8 | L9 | L10 | L11 |  |   |  |  |  |

DIGIT 1

RESTORE CODES

|    |    |    |    |    |    |    |    |    |     |     |  |   |   |  |  |
|----|----|----|----|----|----|----|----|----|-----|-----|--|---|---|--|--|
| 1  | P  |    |    |    |    |    |    | F  | F   |     |  | F | F |  |  |
| L1 | L2 | L3 | L4 | L5 | L6 | L7 | L8 | L9 | L10 | L11 |  |   |   |  |  |

|    |    |    |    |    |    |    |    |    |     |     |   |   |   |   |  |
|----|----|----|----|----|----|----|----|----|-----|-----|---|---|---|---|--|
| 2  | P  |    |    |    |    |    |    | F  | F   |     | F | F | F | F |  |
| L1 | L2 | L3 | L4 | L5 | L6 | L7 | L8 | L9 | L10 | L11 |   |   |   |   |  |

|    |    |    |    |    |    |    |    |    |     |     |   |   |   |   |  |
|----|----|----|----|----|----|----|----|----|-----|-----|---|---|---|---|--|
| 3  | P  |    |    |    |    |    |    | F  | F   |     | F | F | F | F |  |
| L1 | L2 | L3 | L4 | L5 | L6 | L7 | L8 | L9 | L10 | L11 |   |   |   |   |  |

Dialing Type, 24 Hr Test, Bell Test Quad Switch

Keyed Panic Silent/Aud. Opening Always/Alarm Only

SELECT QUAD SWITCHING IN AF L1. DO NOT SELECT UC, UO, EC, EO IN AF L2.

|    |    |  |  |
|----|----|--|--|
| A  | F  |  |  |
| L1 | L2 |  |  |

FALL BACK EXIT TIME

FALL BACK ENTRANCE TIME

BELL CUT OFF TIME

|    |    |    |  |  |
|----|----|----|--|--|
| F  | F  |    |  |  |
| L1 | L2 | L3 |  |  |

Fall Back Code

|    |    |    |    |  |  |
|----|----|----|----|--|--|
| A  | C  |    |    |  |  |
| L1 | L2 | L3 | L4 |  |  |

|    |    |    |    |    |    |    |    |    |     |     |   |   |   |   |   |
|----|----|----|----|----|----|----|----|----|-----|-----|---|---|---|---|---|
| A  | L  | F  |    |    |    |    |    | F  | F   | F   | F | F | F | F | F |
| L1 | L2 | L3 | L4 | L5 | L6 | L7 | L8 | L9 | L10 | L11 |   |   |   |   |   |

