



ESPRIT 738+ PROGRAMMING GUIDE



SOFTWARE VERSION 3.10

KEYPAD TROUBLE DISPLAY

Key "ON" =

- | | |
|----------------------------|-----------------------------------|
| [1] No battery/low voltage | [7] Communicator report failure |
| [2] Power failure | [8] Timer loss* |
| [4] Bell disconnect | [9] Tamper or zone wiring failure |
| [5] Maximum bell current | [10] Telephone line failure |
| [6] Max auxiliary current | [11] Fire loop trouble |

* To clear timer loss trouble, see Key Access Programming [MEM]. Press [CLEAR] to clear troubles.

FIGURE 1

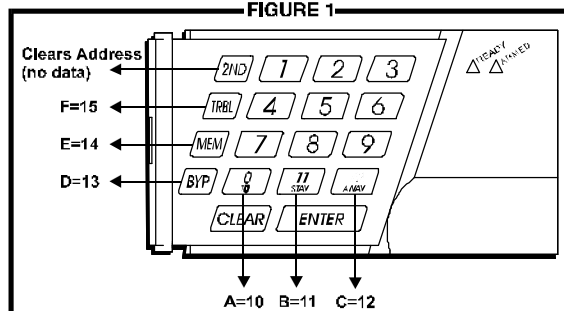
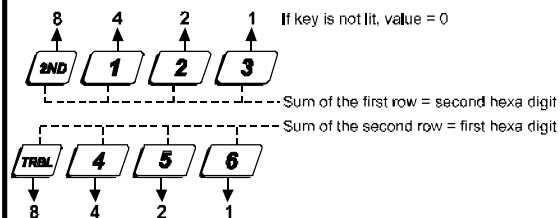


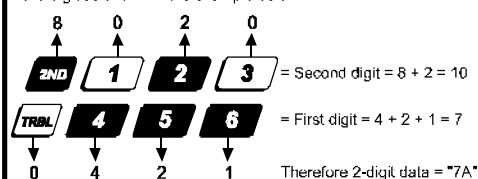
FIGURE 2

HEXA DIGIT DATA DISPLAY FOR LED KEYPADS

Note: LCD keypads will display current data on the screen.



Each key in the first 2 rows of the keypad represents a specific value when the key is lit, as shown above. If the key isn't lit, the key represents 0. The sum of the values of the lit keys in the first row correspond to the second hexa digit. The sum of the values of the lit keys in the second row correspond to the first hexa digit as shown in the example below.



Note: values 10-15 represent hexa digits A - F respectively, see figure 1

HEXA PROGRAMMING:

Addresses 000 to 043 and 300 to 527 are programmed using the Hexa Programming method. In this mode, you can enter any hexa-digit from 0-F where keys [1] to [9] represent digits 1 to 9 respectively; the other keys represent hexa digits A to F as shown in figure 1. To program using the Hexa Programming method:

- 1) Press [ENTER] + *Installer Code* (default: **383838**)
- 2) The [ENTER] key will flash indicating you are in programming mode
- 3) Enter the desired 3-digit address
- 4) The keypad will display the 2-digit data currently saved at this address as described in figure 2
- 5) Enter 2-digit data; after entering data you do not need to press [ENTER], the software will automatically save the data into the selected address
- 6) Return to **step 2** or press [CLEAR] to exit programming mode

STREAMLINED SECTION PROGRAMMING

This is an alternate method to Hexa Programming. The addresses (000-043 and 300-527) programmed in the Hexa Programming method are grouped into 67 sections where each section contains four addresses (i.e. section 00 = addresses 000-003). Using this method allows you to program 8 digits (4 addresses) without having to exit and re-enter addresses. Note, the keypad will not display the current data in the Hexa Streamlined Programming method. To program using the Hexa Streamlined Section method:

- 1) Press [ENTER] + *Installer code* (default: **383838**) + [7]
- 2) The [ENTER] and [2ND] keys will flash to indicate you are in programming mode
- 3) Enter **2-digit section** (00-67)
- 4) The [ENTER] key will remain on while the [2ND] key will be off
- 5) Enter **8-digit data** to program the section
- 6) The keypad will "beep" to indicate that the section has been programmed, data is saved and the software has advanced to the next section
- 7) Return to **step 4** or press [CLEAR] to exit programming mode

INSTALLER CODE (Default **383838**)

Full access to programming, except user access codes. No access to arming/disarming. Use only numeric keys from [1] to [10]. (key [10] = 0)

PANEL ANSWER OPTIONS

First digit disables "Answering Machine Override" (key [2ND] or key [1]), or determines period of time between first and second call (see table below). Second digit determines number of rings required before panel will answer. If [2ND][2ND] is entered, panel will not answer. (Default value is [2ND] [8].)

Streamline section	Data	Description	Address	ANSWERING MACHINE OVERRIDE
00	___/___	Installer code (1st, 2nd digit)	000	<div><div>[2ND] or [1] = disabled</div><div>[2] = 16 seconds</div><div>[3] = 24 seconds</div><div>[4] = 32 seconds</div><div>[5] = 40 seconds</div><div>[6] = 48 seconds</div><div>[7] = 56 seconds</div><div>[8] to [F] = 60 seconds</div></div>
	___/___	Installer code (3rd, 4th digit)	001	
	___/___	Installer code (5th, 6th digit)	002	
	___/___	Panel answer options	003	
	Number of rings (Max. 15)			

Streamline section	Data	Description	Address	
01	___/___	Panel identifier (1st, 2nd digit)	004	{ Identifies the control panel to the PC.
	___/___	Panel identifier (3rd, 4th digit)	005	
	___/___	PC password (1st, 2nd digit)	006	{ Identifies the PC to the panel.
	___/___	PC password (3rd, 4th digit)	007	

TELEPHONE AND ACCOUNT NUMBERS

If only one central station phone number is used, program the same number for telephone number 1 and 2. **If only one account number is required, the same number must be entered for both account "A" and "B".** (No Default)

[10] = the number "0"

[11] = *

[12] = #

[BYP] = switch from pulse to tone while dialing

[MEM] = pause 4 seconds

[TRBL] = end of number

COMPUTER TELEPHONE NUMBER (View at addresses 008 to 015.)

Streamline section	Streamline section
02 ___/___/___/___/___/___/___/___	03 ___/___/___/___/___/___/___/___
1 2 3 4 5 6 7 8	9 10 11 12 13 14 15 16

Press [TRBL] to end phone number if less than 16 digits are programmed.

CENTRAL STATION TELEPHONE NUMBER 1 (View at addresses 016 to 023.)

Streamline section	Streamline section
04 ___/___/___/___/___/___/___/___	05 ___/___/___/___/___/___/___/___
1 2 3 4 5 6 7 8	9 10 11 12 13 14 15 16

Press [TRBL] to end phone number if less than 16 digits are programmed.

CENTRAL STATION TELEPHONE NUMBER 2 (View at addresses 024 to 031.)

Streamline section	Streamline section
06 ___/___/___/___/___/___/___/___	07 ___/___/___/___/___/___/___/___
1 2 3 4 5 6 7 8	9 10 11 12 13 14 15 16

Press [TRBL] to end phone number if less than 16 digits are programmed.

ACCOUNT "A" AND "B": (View at addresses 032 to 035.)

Streamline section	
08 ___/___/___/___	___/___/___/___
1 2 3 4	5 6 7 8
A	B

For 3 digit account numbers, enter "skip" ([2ND]) as first digit.

Streamline section	Data	Description	Address
09	[2ND]/[2ND]	Future use	036
	[2ND]/___	1st digit: value must be entered i.e. [2ND]	037
	___/___	2nd digit: time correction (See table)	038
	___/___	1st digit: telephone 1 format	
	___/___	2nd digit: telephone 2 format	
10	___/___	1st digit: PGM1 type	039
	___/___	2nd digit: PGM2 type	040
	___/___	PGM 1	
	___/___	PGM2	
	___/___	PGM mask 1	
	___/___	PGM mask 2	041
			042
			043

TIME CORRECTION:

(address 037 second digit)

[2ND] - No adjustment	[8] - Minus 4 sec.
[1] - Plus 4 sec.	[9] - Minus 8 sec.
[2] - Plus 8 sec.	[10] - Minus 12 sec.
[3] - Plus 12 sec.	[11] - Minus 16 sec.
[4] - Plus 16 sec.	[12] - Minus 20 sec.
[5] - Plus 20 sec.	[BYP] - Minus 24 sec.
[6] - Plus 24 sec.	[MEM] - Minus 28 sec.
[7] - Plus 28 sec.	[TRBL] - Minus 32 sec.

COMMUNICATOR FORMATS

Key

[2ND] = **ADEMCO** slow (1400Hz, 1900Hz, 10bps)
 [1] = (1400Hz, 1800Hz, 10bps)
 [2] = **SILENT KNIGHT** fast (1400Hz, 1900Hz, 20bps)
 [3] = **SESCOA** (2300Hz, 1800Hz, 20bps)
 [4] = **RADIONICS** (40bps with 1400Hz handshake)
 [5] = **RADIONICS** (40bps with 2300Hz handshake)

[6] = **RADIONICS** with PARITY (1400Hz, 40bps)
 [7] = **RADIONICS** with PARITY (2300Hz, 40bps)
 [8] = ***ADEMCO** express
 [9] = ***ADEMCO** contact ID (programmable codes)
 [10] = ***ADEMCO** contact ID (all codes)
 [TRBL] = ***DTMF** - no handshake (personal dialing)

* = 4-Digit Codes Only

PROGRAMMABLE CONTACT ID EVENT CODES

All addresses from **300** to **527** (sections **11** to **67**) programmed with values other than [2ND] [2ND] will report the contact ID codes corresponding to the values programmed. Values to be programmed should be selected from this table.

CID	REPORTING CODE	PROG. VALUE	CID	REPORTING CODE	PROG. VALUE
100:	AUXILIARY ALARM	[2ND] / [1]	300:	SYSTEM TROUBLE	[2] / [2]
110:	FIRE ALARM	[2ND] / [2]	301:	AC LOSS	[2] / [3]
111:	FIRE SMOKE	[2ND] / [3]	302:	LOW SYSTEM BATTERY	[2] / [4]
112:	COMBUSTION	[2ND] / [4]	305:	SYSTEM RESET	[2] / [5]
113:	WATER FLOW	[2ND] / [5]	306:	PROGRAM CHANGED	[2] / [6]
114:	HEAT	[2ND] / [6]	309:	BATTERY TEST FAIL	[2] / [7]
115:	PULLSTATION	[2ND] / [7]	320:	SOUNDER/RELAY TROUBLE	[2] / [8]
116:	DUCT	[2ND] / [8]	321:	BELL 1 TROUBLE	[2] / [9]
117:	FLAME	[2ND] / [9]	323:	ALARM RELAY TROUBLE	[2] / [10]
118:	NEAR ALARM	[2ND] / [10]	350:	COMMUNICATION TROUBLE	[2] / [11]
120:	PANIC ALARM	[2ND] / [11]	351:	TELCO 1 FAULT	[2] / [12]
121:	DURESS	[2ND] / [12]	354:	FAIL TO COMMUNICATE	[2] / [BYP]
122:	SILENT PANIC	[2ND] / [BYP]	370:	PROTECTION LOOP TROUBLE	[2] / [MEM]
123:	AUDIBLE PANIC	[2ND] / [MEM]	371:	PROTECTION LOOP OPEN	[2] / [TRBL]
130:	BURGLARY	[2ND] / [TRBL]	372:	PROTECTION LOOP SHORT	[3] / [2ND]
131:	PERIMETER BURG.	[1] / [2ND]	373:	FIRE LOOP TROUBLE	[3] / [1]
132:	INTERIOR BURG.	[1] / [1]	382:	SENSOR TROUBLE	[3] / [2]
133:	24HR BURGLARY	[1] / [2]	383:	SENSOR TAMPER	[3] / [3]
136:	BURGLARY OUTDOOR	[1] / [3]	400:	OPEN/CLOSE	[3] / [4]
137:	BURGLARY TAMPER	[1] / [4]	401:	OPEN/CLOSE BY USER #	[3] / [5]
138:	BURGLARY NEAR ALARM	[1] / [5]	402:	GROUP OPEN/CLOSE	[3] / [6]
140:	GENERAL ALARM	[1] / [6]	403:	AUTOMATIC OPENING/CLOSING	[3] / [7]
150:	24 HOUR AUX	[1] / [7]	404:	LATE TO OPEN/CLOSE	[3] / [8]
151:	GAS DETECTED	[1] / [8]	407:	REMOTE ARM DOWNLOAD	[3] / [9]
152:	REFRIGERATION	[1] / [9]	410:	REMOTE ACCESS	[3] / [10]
153:	LOSS OF HEAT	[1] / [10]	441:	OPEN/CLOSE - STAY MODE	[3] / [11]
154:	WATER LEAKAGE	[1] / [11]	570:	BYPASS	[3] / [12]
155:	FOIL BREAK ALARM	[1] / [12]	572:	24 HOUR ZONE BYPASS	[3] / [BYP]
156:	DAY TROUBLE ALARM	[1] / [BYP]	573:	BURGLARY BYPASS #	[3] / [MEM]
157:	LOW GAS LEVEL	[1] / [MEM]	574:	GROUP BYPASS	[3] / [TRBL]
158:	HIGH TEMPERATURE	[1] / [TRBL]	601:	MANUAL TEST	[4] / [2ND]
159:	LOW TEMPERATURE	[2] / [2ND]	602:	PERIODIC TEST	[4] / [1]
161:	LOSS AIR FLOW	[2] / [1]	625:	TIME/DATE RESET	[4] / [2]

For addresses **044** to **126**, see pages 7 to 10.

REPORTING CODES: All digits from [1] to [F] are valid. [2ND] = digit will not be reported except for contact I.D. programmable codes. For single digit reporting enter "skip" ([2ND]) as first digit. (Default = "empty" [2ND] [2ND])

If CONTACT I.D. format (all codes) is selected, addresses 300 to 527 (sections 11- 67) do not have to be programmed.
(Select Contact I.D. (all codes) - key [10] for both central station numbers at section 09 - address 038.)

ARMING (closing) CODES:

Streamline section	Data	Description	Address	Streamline section	Data	Description	Address
11	—/—	Auto / Espload	300	18	—/—	User code 27	328
	—/—	Master	301		—/—	User code 28	329
	—/—	User code 1	302		—/—	User code 29	330
	—/—	User code 2	303		—/—	User code 30	331
12	—/—	User code 3	304	19	—/—	User code 31	332
	—/—	User code 4	305		—/—	User code 32	333
	—/—	User code 5	306		—/—	User code 33	334
	—/—	User code 6	307		—/—	User code 34	335
13	—/—	User code 7	308	20	—/—	User code 35	336
	—/—	User code 8	309		—/—	User code 36	337
	—/—	User code 9	310		—/—	User code 37	338
	—/—	User code 10	311		—/—	User code 38	339
14	—/—	User code 11	312	21	—/—	User code 39	340
	—/—	User code 12	313		—/—	User code 40	341
	—/—	User code 13	314		—/—	User code 41	342
	—/—	User code 14	315		—/—	User code 42	343
15	—/—	User code 15	316	22	—/—	User code 43	344
	—/—	User code 16	317		—/—	User code 44	345
	—/—	User code 17	318		—/—	User code 45	346
	—/—	User code 18	319		—/—	User code 46	347
16	—/—	User code 19	320	23	—/—	User code 47	348
	—/—	User code 20	321		—/—	User code 48 / (Duress)	349
	—/—	User code 21	322	- → See next page			
	—/—	User code 22	323				
17	—/—	User code 23	324				
	—/—	User code 24	325				
	—/—	User code 25	326				
	—/—	User code 26	327				

REPORTING CODES: (reset code "empty")

DISARMING (opening) CODES:

Streamline section	Data	Description	Address	Streamline section	Data	Description	Address
	→ See previous page						
23	/	Esplod	350	30	/	User code 25	376
	/	Master	351		/	User code 26	377
24	/	User code 1	352		/	User code 27	378
	/	User code 2	353		/	User code 28	379
	/	User code 3	354	31	/	User code 29	380
	/	User code 4	355		/	User code 30	381
25	/	User code 5	356		/	User code 31	382
	/	User code 6	357		/	User code 32	383
	/	User code 7	358	32	/	User code 33	384
	/	User code 8	359		/	User code 34	385
26	/	User code 9	360		/	User code 35	386
	/	User code 10	361		/	User code 36	387
	/	User code 11	362	33	/	User code 37	388
	/	User code 12	363		/	User code 38	389
27	/	User code 13	364		/	User code 39	390
	/	User code 14	365		/	User code 40	391
	/	User code 15	366	34	/	User code 41	392
	/	User code 16	367		/	User code 42	393
28	/	User code 17	368		/	User code 43	394
	/	User code 18	369		/	User code 44	395
	/	User code 19	370	35	/	User code 45	396
	/	User code 20	371		/	User code 46	397
29	/	User code 21	372		/	User code 47	398
	/	User code 22	373		/	User code 48 / (Duress)	399
	/	User code 23	374				
	/	User code 24	375				

ALARM CODES ZONES 1 TO 14:

Streamline section	Data	Description	Address
36	/	Zone 1	400
	/	Zone 2	401
	/	Zone 3 (fire add. 100)	402
	/	Zone 4	403
37	/	Zone 5	404
	/	Zone 6	405
	/	Zone 7	406
	/	Zone 8	407
38	/	Zone 9	408
	/	Zone 10	409
	/	Zone 11	410
	/	Zone 12	411
39	/	Zone 13	412
	/	Zone 14	413
	[2ND]/[2ND]	Future Use	414
	[2ND]/[2ND]	Future Use	415

Addresses **414-423** reserved for future use.

ZONES 1 TO 14 RESTORE CODES:

Streamline section	Data	Description	Address
42	/	Zone 1	424
	/	Zone 2	425
	/	Zone 3 (fire add. 100)	426
	/	Zone 4	427
43	/	Zone 5	428
	/	Zone 6	429
	/	Zone 7	430
	/	Zone 8	431
44	/	Zone 9	432
	/	Zone 10	433
	/	Zone 11	434
	/	Zone 12	435
45	/	Zone 13	436
	/	Zone 14	437
	[2ND]/[2ND]	Future Use	438
	[2ND]/[2ND]	Future Use	439

Addresses **438-447** reserved for future use

REPORTING CODES: (reset code "empty")

ZONES 1 TO 14 SHUTDOWN CODES:

Streamline section	Data	Description	Address
48	___/___	Zone 1	448
	___/___	Zone 2	449
	___/___	Zone 3	450
	___/___	Zone 4	451
49	___/___	Zone 5	452
	___/___	Zone 6	453
	___/___	Zone 7	454
	___/___	Zone 8	455
50	___/___	Zone 9	456
	___/___	Zone 10	457
	___/___	Zone 11	458
	___/___	Zone 12	459
51	___/___	Zone 13	460
	___/___	Zone 14	461
	[2ND]/[2ND]	Future Use	462
	[2ND]/[2ND]	Future Use	463

Addresses 462-471 reserved for future use

TAMPER 1 TO 6 TROUBLE CODES:

Streamline section	Data	Description	Address
54	___/___	Tamper 1	472
	___/___	Tamper 2	473
	___/___	Tamper 3	474
	___/___	Tamper 4	475
55	___/___	Tamper 5	476
	___/___	Tamper 6	477
	[2ND]/[2ND]	Future Use	478
	[2ND]/[2ND]	Future Use	479

Addresses 478-495 reserved for future use

TROUBLE CODES:

Streamline section	Data	Description	Address
60	___/___	Max. auxiliary current	496
	___/___	Bell disconnect / max. bell current	497
	___/___	Battery disconnect / low voltage	498
	___/___	Power failure	499
	___/___		

Streamline section	Data	Description	Address
61	___/___	Fire loop trouble	500
	___/___	Timer loss	501
	[2ND]/[2ND]	Future Use	502
	[2ND]/[2ND]	Future Use	503

TROUBLE RESTORE CODES:

Streamline section	Data	Description	Address
62	___/___	Max. auxiliary current	504
	___/___	Bell disconnect	505
	___/___	Battery disconnect / low voltage	506
	___/___	Power failure	507
	___/___		

Streamline section	Data	Description	Address
63	___/___	Fire loop trouble	508
	___/___	Timer programmed	509
	___/___	Tamper / wiring fault	510
	___/___	TLM trouble restore	511
	___/___		

SPECIAL CODES:

Streamline section	Data	Description	Address
64	___/___	Test report	512
	___/___	Panic 1	513
	___/___	Panic 2	514
	___/___	Panic 3	515
65	___/___	Late to close	516
	___/___	No movement	517
	___/___	Partial arming	518
	___/___	Recent close	519

Streamline section	Data	Description	Address
66	___/___	Duress	520
	[2ND]/[2ND]	Future Use	521
	[2ND]/[2ND]	Future Use	522
	[2ND]/[2ND]	Future Use	523
67	___/___	Log-in (Espload)	524
	___/___	Program change	525
	[2ND]/[2ND]	Future Use	526
	[2ND]/[2ND]	Future Use	527

DECIMAL PROGRAMMING

- 1) Press **[ENTER] + Installer Code** (default: **383838**)
- 2) The **[ENTER]** key will flash to indicate you are in programming mode
- 3) Enter **3-digit address** (044-061)
- 4) The keypad will now display the current 3-digit data currently saved at this address as described in figure 3
- 5) Enter **3-digit data** (000-255) value; after entering data you do not need to press **[ENTER]**, the software will automatically save the data into the selected address
- 6) Return to **step 2** or press **[CLEAR]** to exit programming mode

044: __/__/__ (hours) Auto arm time (between "000" and "023")

045: __/__/__ (minutes) Auto arm time (between "000" and "059")

046: __/__/__ (days) Auto test report every ? days (between "001" and "255") (000 = disabled)

047: __/__/__ (hours) Auto test report (between "000" and "023")

048: __/__/__ (minutes) Auto test report (between "000" and "059")

049: __/__/__ (seconds) Exit delay (factory default **60** seconds)

050: __/__/__ (seconds) Entry delay 1 (factory default **45** seconds)

051: __/__/__ (seconds) Entry delay 2 (factory default **45** seconds)

052: __/__/__ (minutes) Bell cut-off time (factory default **5** minutes)

053: __/__/__ (x 15 mSec.) Zone speed (factory default **600** mSec.)

054: __/__/__ (minutes) Power failure report delay (factory default **30** minutes) (000 = disabled)

055: __/__/__ (x 15 minutes) "No movement" report time (factory default **8** hours) (000 = disabled)

056: __/__/__ PGM timer setting (001 to 127 for seconds and 129 to 255 for minutes) (factory default **5** seconds)
Add 128 to desired value in minutes (i.e. for 5 minutes: enter 5 + 128 = 133)

057: __/__/__ Intellizone delay (in seconds, minimum = 10 seconds) (factory default **48** seconds)

058: __/__/__ Installer code lock (147 = locked, 000 = unlocked)

059: __/__/__ (seconds) Programmable delay before alarm transmission (5 to 63 seconds) (000 = disabled)

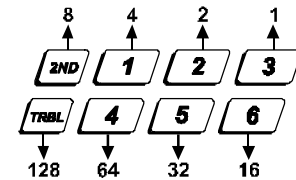
060: __/__/__ (seconds) Recent closing delay (000 = disabled)

061: __/__/__ Future Use

FIGURE 3

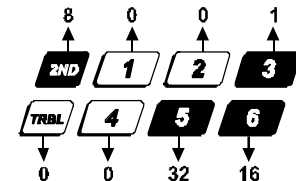
DECIMAL DISPLAY FOR LED KEYPADS

Note: LCD keypads will display current data on the screen.



Each key in the first 2 rows of the keypad represents a specific value when the key is lit, as shown above. When the key isn't lit, the key represents 0. Add the values of the lit keys to obtain the entered data value as shown in the example below.

Example



Therefore $8 + 1 + 32 + 16 = 057$

FEATURE SELECT PROGRAMMING

Addresses 062 to 126 are programmed using the Feature Select Programming method. In this method, every key on the keypad in each address represents an option or feature. Pressing a key will display it on the keypad and pressing it again will extinguish the key. The On/Off status of each key determines the selected feature. To program using the Feature Select Programming method:

- 1) Press **[ENTER]** + *Installer Code* (default: **383838**)
- 2) The **[ENTER]** key will flash to indicate you are in programming mode
- 3) Enter **3-digit address** (062-126)
- 4) After entering the address, the keypad will display the feature selection status. Turn the keys On/Off by pressing the appropriate key until the desired options are set. Then press the **[ENTER]** key to accept, there will be a confirmation "beep" indicating the options have been accepted. The **[ENTER]** key will flash to indicate that the software is awaiting the next address entry
- 5) Return to **step 3** to continue programming or press **[CLEAR]** to exit programming mode

CODE PRIORITY																	
KEY SELECT:		[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[BYP]	[MEM]	[TABL]	[2ND]
062:	User #:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	SYSTEM "A" / STAY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
064:	User #:	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
	SYSTEM "A" / STAY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
066:	User #:	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
	SYSTEM "A" / STAY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
068:	User #:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	SYSTEM "B" / AWAY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
070:	User #:	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
	SYSTEM "B" / AWAY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
072:	User #:	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
	SYSTEM "B" / AWAY	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
074:	User #:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Codes with bypass access	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
076:	User #:	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
	Codes with bypass access	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
078:	User #:	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
	Codes with bypass access	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Addresses **080** to **085** for future use.

FEATURE SELECT PROGRAMMING (continued)

(On/off status of key lights determines which feature is selected.)

086:

See "TLM" table -----

PS1/Keyswitch = regular arm -----

PS1/keys switch arming -----

Call back -----

Auto arm on time -----

Auto arm on no movement -----

Pulse dialing -----

Partitioning -----

Silent zone/panic generates a silent alarm

(1:2) Pulse Europe -----

See "Reporting" table -----

N/A

Bell squawk on arm/disarm -----

Auto zone shutdown -----

KEY		
OFF	ON	
<input type="checkbox"/> [2ND]	<input type="checkbox"/>	
<input type="checkbox"/> [1]	<input type="checkbox"/>	
<input type="checkbox"/> [2]	<input type="checkbox"/>	stay arm / System A
<input type="checkbox"/> [3]	<input type="checkbox"/>	enabled
<input type="checkbox"/> [4]	<input type="checkbox"/>	enabled
<input type="checkbox"/> [5]	<input type="checkbox"/>	enabled
<input type="checkbox"/> [6]	<input type="checkbox"/>	enabled
<input type="checkbox"/> [7]	<input type="checkbox"/>	Tone dialing (DTMF)
<input type="checkbox"/> [8]	<input type="checkbox"/>	enabled
<input type="checkbox"/> [9]	<input type="checkbox"/>	generates only a report
<input type="checkbox"/> [10]	<input type="checkbox"/>	(1:1.5) Pulse USA
<input type="checkbox"/> [11]	<input type="checkbox"/>	
<input type="checkbox"/> [12]	<input type="checkbox"/>	
<input type="checkbox"/> [BYP]	<input type="checkbox"/>	N/A
<input type="checkbox"/> [MEM]	<input type="checkbox"/>	enabled
<input type="checkbox"/> [TRBL]	<input type="checkbox"/>	enabled

TELEPHONE LINE MONITOR

Address 086, Key [2ND] [1]

KEY		
[2ND]	[1]	
OFF	OFF	TLM disabled
OFF	ON	TLM generates trouble only
ON	OFF	generates an alarm if armed
ON	ON	silent alarm becomes audible

(address 086, key [9] has to be OFF)

088:

Automatic event buffer transmission.

Panic 1 (keys [1] & [3], PS1) -----

Panic 2 (keys [4] & [6]) -----

Panic 3 (keys [7] & [9]) -----

Panic 1 silent (PS1) -----

Panic 2 silent -----

Panic 3 silent -----

Key [10] regular arm -----

Key [11] stay or system A arm -----

6 digit access codes -----

Tamper Recognition -----

Beep on exit delay -----

Report zone restore on bell cut-off -----

Zones with EOL (1K Ω) -----

Always report disarm -----

KEY		
OFF	ON	
<input type="checkbox"/> [2ND]	<input type="checkbox"/>	enabled
<input type="checkbox"/> [1]	<input type="checkbox"/>	enabled
<input type="checkbox"/> [2]	<input type="checkbox"/>	enabled
<input type="checkbox"/> [3]	<input type="checkbox"/>	enabled
<input type="checkbox"/> [4]	<input type="checkbox"/>	audible
<input type="checkbox"/> [5]	<input type="checkbox"/>	audible
<input type="checkbox"/> [6]	<input type="checkbox"/>	fire
<input type="checkbox"/> [7]	<input type="checkbox"/>	enabled
<input type="checkbox"/> [8]	<input type="checkbox"/>	enabled
<input type="checkbox"/> [9]	<input type="checkbox"/>	4 digit
<input type="checkbox"/> [10]	<input type="checkbox"/>	
<input type="checkbox"/> [11]	<input type="checkbox"/>	
<input type="checkbox"/> [12]	<input type="checkbox"/>	enabled
<input type="checkbox"/> [BYP]	<input type="checkbox"/>	on zone closure
<input type="checkbox"/> [MEM]	<input type="checkbox"/>	no EOL
<input type="checkbox"/> [TRBL]	<input type="checkbox"/>	only after alarm

REPORTING OPTIONS

Address 086, Key [11] [12]

KEY	TYPE	DIALING SEQUENCE (tel. No.)
[11]	[12]	
OFF	OFF	Reporting disabled
OFF	ON	Regular reporting - 1,2,1,2,1,2,1,2, fail to comm.
ON	OFF	Split reporting: Alarms* - 1,1,1,1,1,1,1,1, fail to comm.
		System report - 2,2,2,2,2,2,2,2, fail to comm.
ON	ON	Double reporting - 1,1,1,1,1,1,1,1, fail to comm., 2,2,2,2,2,2,2,2, fail to comm.

*On alarm, all reports are made to Tel. #1 until system is disarmed. (Once disarmed, system reports are made to Tel. #2)

TAMPER / WIRE FAULT DEFINITIONS

Address 088, Key [10] [11]

	KEY		
	[10]	[11]	
SYSTEM ARMED			
Alarm as per individual zone definitions	OFF	OFF	Tamper supervision disabled
	OFF	ON	No alarm, trouble code reported
Always generate trouble and alarm, audible or silent as per individual zone definitions	ON	OFF	Silent alarm. Trouble and alarm codes reported
	ON	ON	Audible alarm. Trouble and alarm codes reported**

* Exception: for 24 hour zones the tamper definition will follow the audible/silent alarm definition of the 24 hour zone.

** Silent zones will generate a silent alarm.

090:

Exclude power failure from trouble display -----

Zone 9 enabled -----

Auto arm = regular arm -----

N/A

N/A

N/A

N/A

No tamper bypass -----

N/A

Zone doubling (ATZ) -----

Audible trouble warning -----

Duress -----

Keypad 1 zone supervision -----



Keypad 2 zone supervision -----

N/A

N/A

N/A

KEY		
OFF	ON	
<input type="checkbox"/> [2ND]	<input type="checkbox"/>	enabled
<input type="checkbox"/> [1]	<input type="checkbox"/>	disabled (in case of fire zone 3 only)
<input type="checkbox"/> [2]	<input type="checkbox"/>	stay / System A
<input type="checkbox"/> [3]	<input type="checkbox"/>	N/A
<input type="checkbox"/> [4]	<input type="checkbox"/>	N/A
<input type="checkbox"/> [5]	<input type="checkbox"/>	N/A
<input type="checkbox"/> [6]	<input type="checkbox"/>	tamper follows zone bypass definition
<input type="checkbox"/> [7]	<input type="checkbox"/>	N/A
<input type="checkbox"/> [8]	<input type="checkbox"/>	enabled
<input type="checkbox"/> [9]	<input type="checkbox"/>	enabled
<input type="checkbox"/> [10]	<input type="checkbox"/>	enabled
<input type="checkbox"/> [11]	<input type="checkbox"/>	enabled
<input type="checkbox"/> [12]	<input type="checkbox"/>	enabled
<input type="checkbox"/> [BYP]	<input type="checkbox"/>	N/A
<input type="checkbox"/> [MEM]	<input type="checkbox"/>	N/A
<input type="checkbox"/> [TRBL]	<input type="checkbox"/>	N/A

ZONE DEFINITION: (reset = "OFF")													
KEY SELECT:	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	
Intellizone = ON 092	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	094
Silent = ON 096	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	098
24HR/Fire = ON 100	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	102
 Keypad Zones cannot be set as 24hr. Zones  When zone 3 is defined as 24hr., it becomes a fire zone.													
Instant = ON 104	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	106
Follow = ON 108	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	110
Delay 2 = ON 112	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	114
System A / STAY													
If ON, zone is armed on stay or "system A" arming 116	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	118
System B													
If ON, zone is armed in "system B" arming 120	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	122
Bypass enable = ON 124	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	126

Zones that are not selected at addresses **100** to **114** become "Delay 1" zones.

Note: Do not use the Intellizone feature and an entry delay for the same zone, otherwise an alarm may occur as a user tries to disarm the system.

KEY ACCESS PROGRAMMING

Programs features quickly, without entering addresses or section numbers.

To activate "key access programming", press **[ENTER]**, followed by installer, master or user code 1. (Code required depends on the feature you wish to access - see below.) Press the key corresponding to the desired feature.

Press **[ENTER]** or **[CLEAR]** to exit.

key

[8] Installer test mode *(installer code only)*

In installer test mode, a confirmation beep (intermittent) indicates test is "on", a "rejection" beep (long) indicates test is "off". The bell will squawk during walk testing to indicate opened, functional zones.

[9] "Auto arming" time program *(all 3 codes)*

Key **[9]** flashes. Enter two digits (00 to 23) for hours + 2 digits (00 to 59) for minutes.

[MEM] "Panel time" and clear "trouble 8" *(all 3 codes)*

Key **[MEM]** flashes. Enter two digits (00 to 23) for hours + 2 digits (00 to 59) for minutes.

[BYP] Test report *(all 3 codes)*

Reporting is enabled at address **086**, keys **[11]**, **[12]**. A value must be entered at address **512**, and both telephone and account numbers must be programmed.

[TRBL] Call Espload via telephone *(all 3 codes)*

Panel identifier and PC password (addresses **004-007**) and computer telephone number (addresses **008-015**) must be programmed.

[AWAY] Answer Espload *(all 3 codes)*

This feature is available when using the ADP-1 adapter. In Espload, "blind dial" must be activated in "modem setup" section, and panel phone number programmed (works also without ADP-1).

[STAY] Cancel communication attempts *(master code and user 1 can only stop calls to Espload)*

Until next reportable event *(installer code - all communications)*

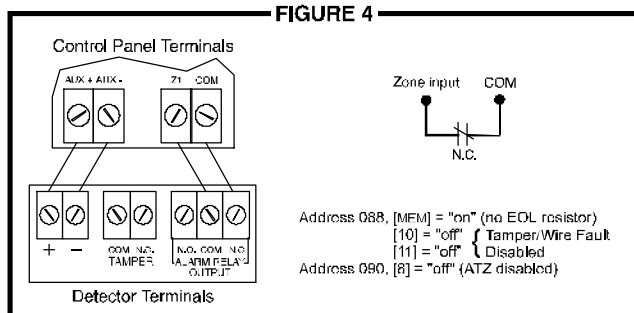
When communicating with Espload, it is impossible to enter programming mode.

CONNECTION DIAGRAMS

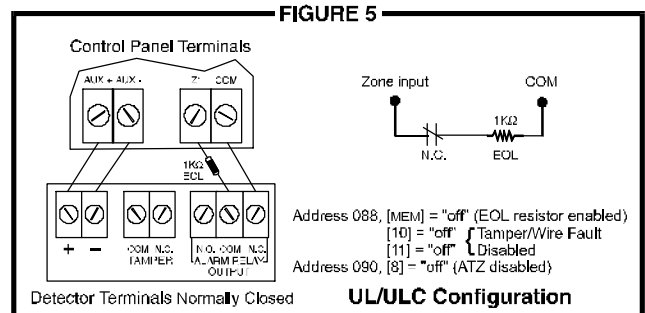
The system hardware will recognize the following zone conditions:

SINGLE ZONE CONNECTIONS

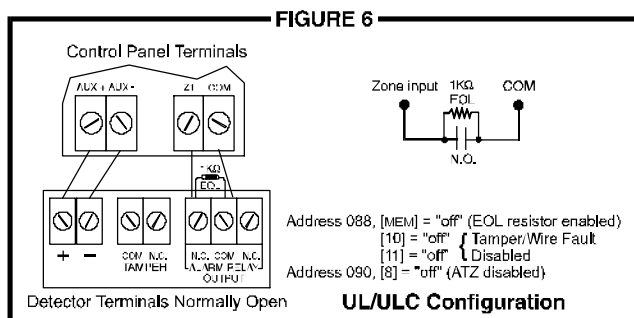
N.C. Contacts, Without EOL Resistor



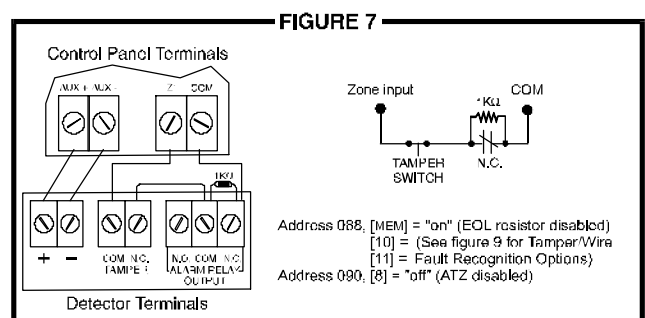
N.C. Contacts, With EOL Resistor (UL/ULC)



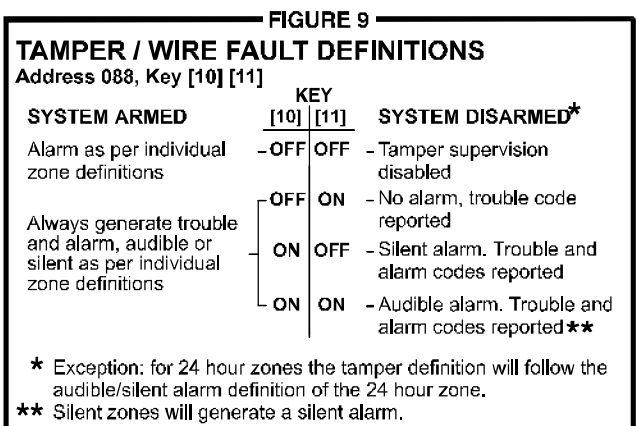
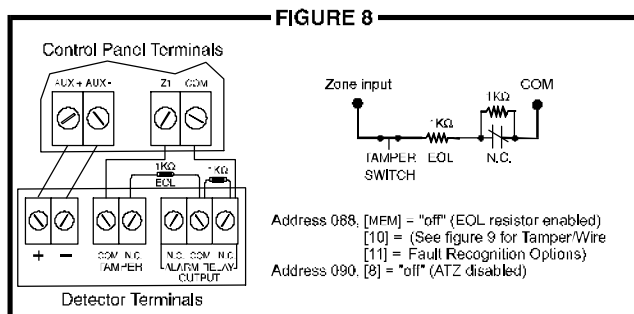
N.O. Contacts, With EOL Resistor (UL/ULC)



N.C. Contacts, Without EOL Resistor, With Tamper Recognition

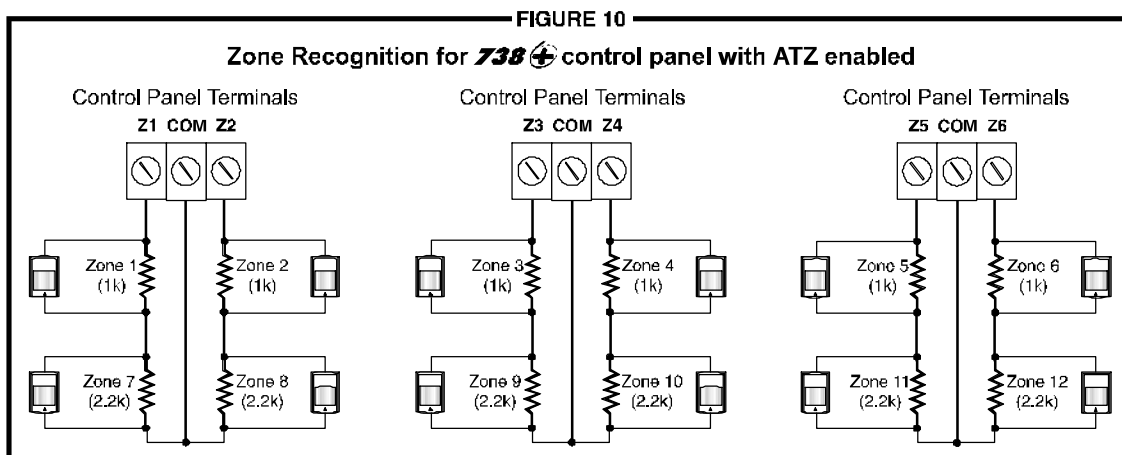


N.C. Contacts, With EOL Resistor, With Tamper and Wire Fault Recognition (UL/ULC)



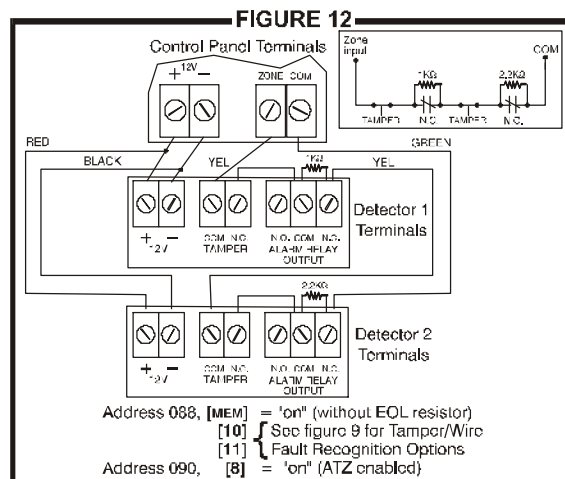
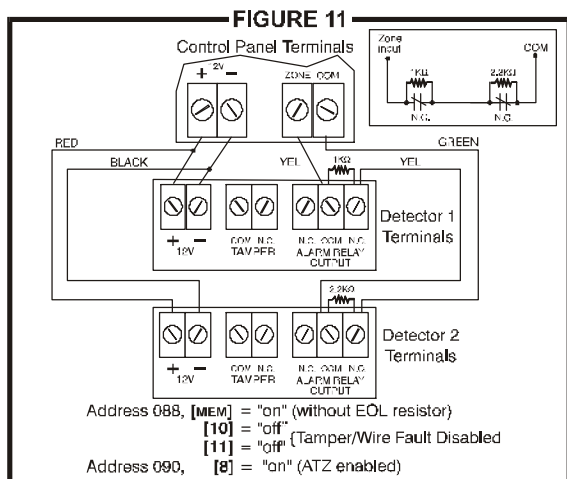
CONNECTION DIAGRAMS (continued)

ADVANCED TECHNOLOGY ZONE CONNECTIONS (2 zones / input)

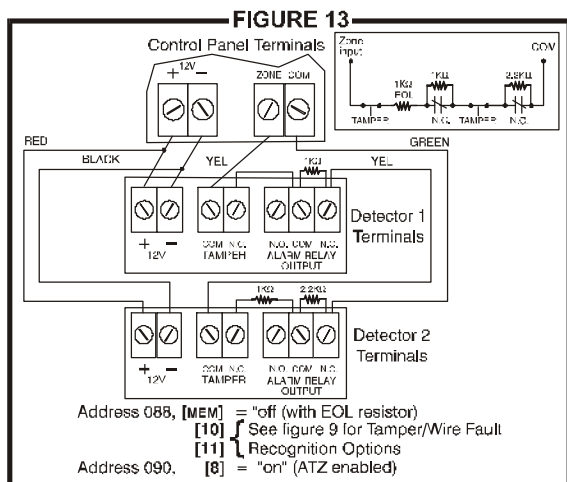


N.C. Contacts, Without EOL Resistor

N.C. Contacts, Without EOL Resistor, With Tamper Recognition



N.C. Contacts, With EOL Resistor, With Tamper & Wire Fault Recognition (UL/ULC)



KEYPAD ZONE CONNECTION DIAGRAMS

Note: Keypad zones always use (1K OHM) EOL resistor.

FIGURE 14

ONE KEYPAD / ONE ZONE

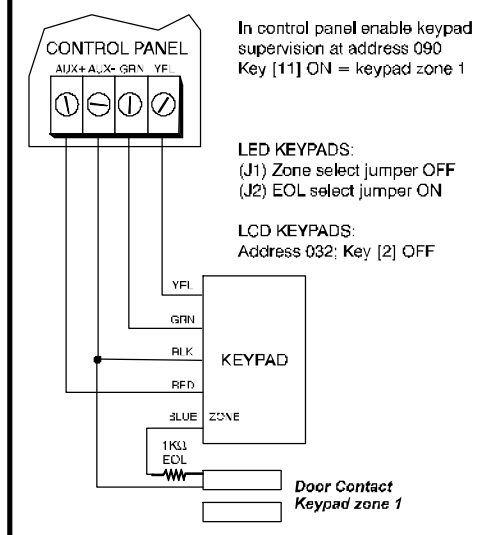


FIGURE 15

TWO KEYPADS / TWO ZONES

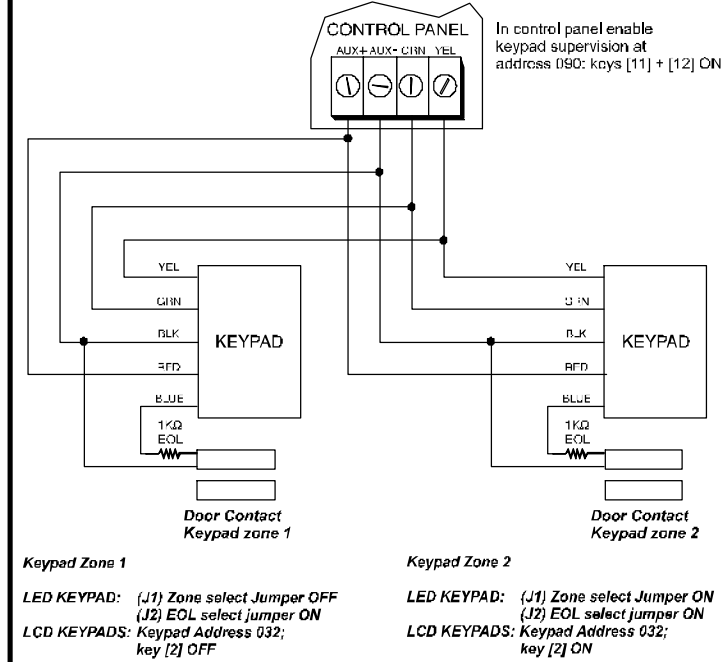
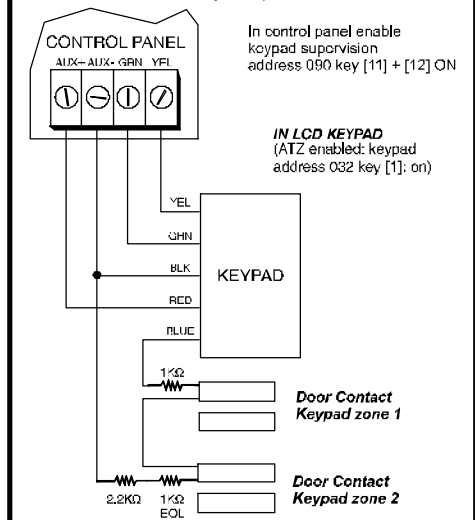


FIGURE 16

639/640 LCD KEYPADS ONE KEYPAD (W/ATZ) / TWO ZONES

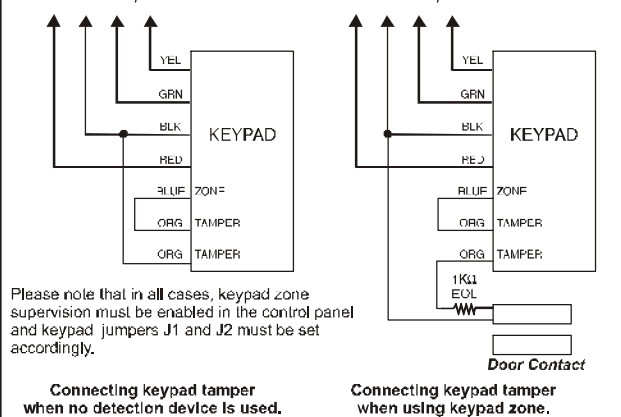


KEYPAD TAMPER SWITCH

NOTE: To connect the keypad's tamper switch, simply connect the keypad as shown below. If the cover is removed when the system is armed, the keypad will send a zone open and the control panel will generate an alarm.

To corresponding terminals on the control panel.

To corresponding terminals on the control panel.



ESPRIT 738+ WIRING DIAGRAM

Charging and battery test LED
(every 60 seconds)

For use with 708, Esprint, and SRI-18 PGM expander.

"TLM" LED: Short flash = OK
Long flash = Fault
OFF = Disabled
Constant = On Line

Service Keypad

Four pin connector can be used for quick installation of an Esprit keypad.

RECHARGEABLE BATTERY
UL/ULC
12VDC
4Ah or 7Ah

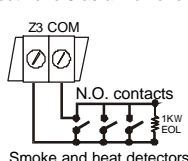
Caution:
Disconnect battery before replacing fuse.

UL: K12 model
T16 V40
ULC: Frost model
FTC 1637

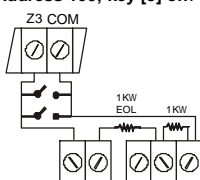
Warning: Improper connection may result in damage to the system.

FIRE ALARM ZONE CONNECTIONS

Without ATZ
Address 090; key [1] on
Address 100; key [3] on.
To set zone 3 as a fire zone.



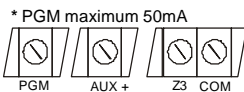
With ATZ enabled
Address 090; key [1] off
Address 100; key [3] on.



FIRE RESET

To program PGM to conduct a 4 second smoke detector reset when [CLEAR] and [ENTER] are pressed simultaneously:

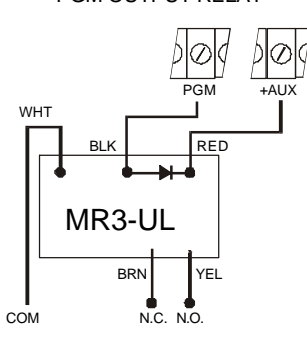
Address 039 = [byp] (first digit) Address 042 = [2nd] [6]
Address 040 = [5][0] Address 056 = [0] [0] [4]



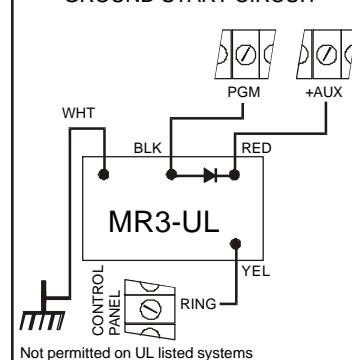
Smoke detector power supervision relay, 12VDC

Smoke detector must be 4 wire latching - UL Falcon model 5454, ULC BRK 2412.
Power supervision relay model MR3-UL.

PGM OUTPUT RELAY



GROUND START CIRCUIT



Not permitted on UL listed systems

PARADOX
SECURITY SYSTEMS

780 Boul. Industriel, St-Eustache, Montreal, Quebec, Canada J7R 5V3 Fax: (450) 491-2313 <http://www.paradox.ca>

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