CC488

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1.0 Overview

1.1 Introduction

Thank you for choosing the Solution Ultima 880 Control Panel (model CC488) for your installation. You will find this system extremely flexible, reliable, and easy to use. This *Quick Reference Guide* is supplied with the system to provide users with enough basic information to wire, configure, and program the system. Due to the systems many programmable features and options, we suggest that you obtain the *CC484/CC486/CC488 Installation Manual* that provides detailed information on system options, functions, and programming methods.

1.2 Programming

The programming options of the system are stored in a non-volatile EPROM. This memory holds all information during a total power loss and can be changed as many times as required.

The entire programming sequence consists of entering a location number and changing the data as required.

Use the following methods to program the system:

- Codepad
- Hand Held Programmer
- Alarm Link Software

1.3 Programming Using A Codepad

The system must be disarmed (with no active alarm) to program the system. If there is an active alarm or the system is armed, enter the code for User 1 (Default = 2580) followed by the [#] key. (User Code 1 is factory default as the Master Code.)

To enter Installer's Programming Mode, enter the installer code (Default = 1234) followed by the [#] key. Two beeps are heard and both the STAY and AWAY indicators flash simultaneously to indicate that you entered programming mode. The codepad indicators displays the current data programmed in LOCATION 000 (first location of the Primary Telephone Number).

To move to another programming location, enter the location number followed by the [#] key. The data in the new location is displayed using the codepad indicators. (For example, if you enter [3 4 #], the system jumps to LOCATION 034, the beginning of the Subscriber ID Number For Receiver 1.)

To move to the next location, press the [#] key. This steps you to the next location. The data in the next location is displayed using the codepad indicators. (For example, if you are currently positioned at LOCATION 034, pressing the [#] key takes you to LOCATION 035.)

To step back one location, press the [*] key. (For example, if you are currently positioned at LOCATION 35, pressing the [*] key returns to LOCATION 34.)

To change data in the current location, enter the new value (0 to 15) followed by the [*] key. This stores the new data into the location. (For example, if you enter the value [1 4 *], both the Zone 4 indicator and the MAINS indicator display to represent the new data value.)

To move to the next location, press the [#] key. The data in the next location displays.

To exit Installer's Programming Mode, enter [9 6 0 #]. Two beeps are heard and the STAY and AWAY indicators no longer display. The system returns to the disarmed state and is ready for use.

Table 1 displays a quick guide to programming:

Table 1: Quick Guide to Programming

Task	Keystrokes
Enter Installer's Programming Mode	[1 2 3 4 #]
Exit Installer's Programming Mode	[9 6 0 #]
Step to next Location	[#]
Step back one Location	[*]
Program new data into Location	[Data][*] (Data = 0 to 15)
Jump to another Location	[Location No.][#]

Table 2:   Codepad Indicators

Data Value	Zone 1 Indicator	Zone 2 Indicator	Zone 3 Indicator	Zone 4 Indicator	Zone 5 Indicator	Zone 6 Indicator	Zone 7 Indicator	Zone 8 Indicator	MAINS Indicator
0									
1	X								
2		X							
3			X						
4				X					
5					X				
6						X			
7							X		
8								X	
9	X							X	
10									X
11	X								X
12		X							X
13			X						X
14				X					X
15					X				X

1.4   Programming Option Bits

Use option bits to program any combination of the four different options in one location by adding the options together. Programming a zero disables all four options.

Example

If at LOCATION 177 you only want options 1, 2, and 4, add the numbers together and the total is the number to be programmed. The number to be programmed is 7 $(1 + 2 + 4 = 7)$.

Table 3:   Programming Option Bits

Option	Description
1	Dialler reporting functions allowed
2	Remote arming using telephone allowed
4	Answering machine bypass only when armed
8	Use bell 103 for FSK format (Disabled = CCITT V21)

1.5   Installer's Programming Commands

Installer Programming Commands, displayed in *Table 4*, can only be used when you enter Installer's Programming Mode. Enter the command followed by the [#] key.

Table 4:   Installer's Programming Commands

Command	Description
958	Enable/disable zone status (hand held programmer required).
959	Test programming key.
960	Exit Installer's Programming Mode.
961	Default system back to factory settings.
962	Copy panel memory to programming key.
963	Copy programming key to panel memory.
964	Erase programming key.
965	Default system for domestic dialling format.
966	Enable/disable automatic stepping of locations when programming.
999	Display software version (hand held programmer required).

1.6   Arming/Disarming the System

Table 5:   Arming/Disarming the System

	AWAY Mode	STAY Mode 1	STAY Mode 2
Arming (On)	Press and hold the [#] key until two beeps are heard. Or	Press and hold the [*] key until two beeps are heard. Or	Press and hold the [0] key until two beeps are heard.
	Enter your code followed by the [#] key (for example, [2 5 8 0 #]). Or	Enter your code followed by the [*] key (for example, [2 5 8 0 *]).	
	To arm all areas, enter your code followed by [0] and then the [#] key (for example, [2 5 8 0 0 #]).		
	Use a code to arm all areas simultaneously that the code is assigned to in AWAY Mode without needing to arm each area individually.		
Disarming (Off)	Enter your code followed by the [#] key (for example, [2 5 8 0 #]). Or	Press and hold the [*] key until two beeps are heard (only if no alarm). Or	Press the [0] key until two beeps are heard (only if no alarm). Or
	To disarm all areas, enter your code followed by [0] and then the [#] key (for example, [2 5 8 0 0 #]).	Enter your code followed by the [#] key (for example, [2 5 8 0 #]).	Enter your code followed by the [#] key (for example, [2 5 8 0 #]).
	Use a code to disarm all areas simultaneously that the code is assigned without needing to disarm each area individually.		

1.7   Isolating Zones

1.7.1   Standard Isolating

1. Press the [*] key twice.
2. Enter the zone number that you want isolated, followed by the [*] key.
    Repeat step 2 if more than one zone is required to be isolated.
3. Press the [#] key to exit when finished.

1.7.2   Code to Isolate

1. Press the [*] key once.
2. Enter your user code.
3. Enter the zone number that you want isolated, followed by the [*] key.
    Repeat Step 2 if more than one zone is required to be isolated.
4. Press the [#] key to exit when finished.

1.8   Add/Delete RF Devices (Wireless Zones)

1.8.1   Add RF Device

1. Enter the four character Installer Code, followed by [0] and the [#] key (for example, [1 2 3 4 0 #]).
2. Enter the Device Number (1 to 16) you want to add, followed by the [#] key.
3. Enter the 9-digit RF device ID number, followed by the [#] key.

1.8.2   Delete RF Device

1. Enter the Installer Code followed by [0] and the [#] key (for example, [1 2 3 4 0 #]).
2. Enter the Device Number (1 to 16) you want to delete, followed by the [#] key.
3. Press the [*] key to delete the RF device.

1.9   Set First Test Report

1. Enter the four character Installer Code, followed by [1] and the [#] key (for example, [1 2 3 4 1 #]).
2. Enter the Number Of Days (0 to 15) to wait until the first test report, followed by the [#] key.

1.10   Event Memory Recall

Enter the four character Installer Code or Master Code, followed by [8] and the [#] key (for example, [1 2 3 4 8 #]).

The last 40 events (non partitioned) or last ten events (partitioned) are displayed in reverse order (for example, most recent to least recent).

1.11   Walk Test Mode

1. Enter the four character Installer Code or Master Code, followed by [7] and the [#] key (for example, [1 2 3 4 7 #]).
2. Test each zone as required.
3. Press the [#] key to exit.

1.12 Satellite Siren Service Mode

Enter the four character Installer Code, followed by [5] and the [#] key (for example, [1 2 3 4 5 #]).

1.13 Telephone Monitor Mode (Toggle On/Off)

1. Enter the four character Installer Code, followed by [6] and the [#] key (for example, [1 2 3 4 6 #]).
2. Press and hold the [9] key until two beeps are heard to send a test report.

Table 6:	Telephone Monitor Mode
Zone LED	**Dialling Event**
1	Telephone Line Seized
2	Dialling Telephone Number
3	Handshake Received
4	Data Being Sent
5	Kiss-Off Received
None	Released Telephone Line

1.14 Add/Delete User Code/RF Keyfob

1.14.1 Add A User Code

1. Enter the four character Master Code, followed by [1] and the [#] key (for example, [2 5 8 0 1 #]).
2. Enter the User Number (1 to 16) you want to add/change, followed by the [#] key.
3. Enter the new code, followed by the [#] key.

1.14.2 Add RF Keyfob

1. Enter the four character Master Code, followed by [1] and the [#] key (for example, [2 5 8 0 1 #]).
2. Enter the User Number (9 to 16) you want to add, followed by the [#] key.
3. Enter the 9-digit RF keyfob ID number, followed by the [#] key.

1.14.3 Delete a User Code/RF Keyfob

1. Enter the four character Master Code, followed by [1] and the [#] key (for example, [2 5 8 0 1 #]).
2. Enter the User Number (1 to 16) you want to delete, followed by the [#] key.
3. Press the [*] key to delete the User Code.

1.15 Change Domestic Telephone Numbers

1. Enter the four character Installer Code or Master Code, followed by [2] and the [#] key (for example, [1 2 3 4 2 #]).
2. Enter the digits for the telephone number.
3. If there is more than one telephone number, press the [*] key, followed by the [4] key (inserts break between phone numbers) and repeat Step 2, or press the [#] key to exit.

1.16 Turn Outputs On/Off

1. Enter the four character Master Code, followed by [5] and the [#] key (for example, [2 5 8 0 5 #]).
2. Enter the Output Number (1 to 3) you want to toggle on or off.
3. Press the [#] key to toggle on or the [*] key to toggle off.
4. Press the [#] key to exit.

1.17 Setting Date and Time

1. Enter the four character Master Code, followed by [6] and the [#] key (for example, [2 5 8 0 6 #]).
2. Enter the day (DD), month (MM), and year (YY) followed by the hour (HH) and minute (MM).
3. Press the [#] key to exit.

1.18 Day Alarm – Toggle On/Off

Press and hold the [4] key until two beeps are heard. Day alarm toggles on or off.

1.19 STAY Mode 2 Zones – Program

1. Enter the four character Installer Code or Master Code, followed by [4] and the [#] key (for example, [1 2 3 4 4 #]).
2. Enter the Zone Number you want the system to automatically isolate, followed by the [*] key.
   Repeat if more than one zone must be automatically isolated when armed in STAY Mode 2.
3. Press the [#] key to exit.

1.20   Fault Analysis

1. Press and hold the [5] key until two beeps are heard.
2. Zone Indicators display FAULT conditions (see *Table 7*).
3. Press [#] key to exit.

Table 7:	Fault Analysis Conditions	
Zone LED	**Fault Condition**	**Description**

1	System Fault	Press and hold button [1] to determine fault.
		1 = Battery Fail
		2 = Date/Time
		3 = RF Rx Jamming
		    RF Rx Tamper
		    RF Rx Comm's Fail
		4 = Horn Speaker Fail
		5 = Telephone Line Fail
		6 = E2 Fail
		7 = Fuse Fail
		8 = AC Fail

2	RF Low Battery	Press and hold button [2] to determine fault. Displays zones (1 to 8) that register RF Low Battery.
3	Zone Tamper	Press and hold button [3] to determine fault. Displays zones (1 to 8) that register Zone Tamper.
4	Sensor Watch	Press and hold button [4] to determine fault. Displays zones (1 to 8) that register Zone Sensor Watch
5	RF Sensor Watch	Press and hold button [5] to determine fault. Displays zones (1 to 8) that register Zone RF Sensor Watch
6	Communication Fail	Press and hold button [6] to determine fault. 1 = Receiver 1 Fail (Dialler) 2 = Receiver 2 Fail (Dialler)

1.21   Modem Call (Alarm Link)

Press and hold the [6] key until two beeps are heard.

1.22   Latching Outputs (Reset)

Press and hold the [7] key until two beeps are heard.

1.23   Codepad ID/Buzzer Tone

1. Press and hold the [8] key until the desired buzzer tone is reached.
   If the system is partitioned (CC488 only), the codepad displays a number identifying which area the codepad belongs (see Table 8).
2. Press the [#] key to exit.

Table 8:	Codepad ID/Buzzer Tone	
Zone LED	**Codepad Assignment**	
1	Area 1	
2	Area 2	
7	Master Partitioned Codepad	

1.24   Test Report

Press and hold the [9] key until two beeps are heard.

1.25   Speaker Test

Press and hold the [1] key until two beeps are heard. The speaker sounds for two seconds.

1.26   Bell Test

Press and hold the [2] key until two beeps are heard. The piezo sounds for two seconds.

1.27   Strobe Test (Toggle On/Off)

Press and hold the [3] key until three beeps are heard to turn the strobe on.

Or

Press and hold the [3] key until two beeps are heard to turn the strobe off.

1.28   Telco Arm Sequence (Call Forward On)

1. Enter your four character Installer Code or Master Code followed by [3] and the [#] key (for example, [1 2 3 4 3 #]).
2. Press [1] followed by the [#] key.
3. Enter the **Call Forward On** sequence.
4. Press the [#] key to exit.

1.29   Telco Disarm Sequence (Call Forward Off)

1. Enter your four character Installer Code or Master Code followed by [3] and the [#] key (for example, [1 2 3 4 3 #]).
2. Press [2] followed by the [#] key.
3. Enter the **Call Forward Off** sequence.
4. Press the [#] key to exit.

2.0 Programming Parameters

Shaded rows indicate default values.

2.1 Phone Programming

2.1.1 Phone Number 1 - Receiver 1

Location	000 to 015
Default	0
0 = 10 and telephone termination = 0	
Anywhere else 0 = 0	

2.1.2 Phone Number 2 - Receiver 1

Location	016 to 031
Default	0
0 = 10 and telephone termination = 0	
Anywhere else 0 = 0	

2.1.3 Handshake Tone For Receiver 1

Location	032
1	HI-LO handshake (contact ID)
2	1400 Hz (Ademco TX @ 1900 Hz)
3	2300 Hz (Sescoa TX @ 1800 Hz)
4	No handshake
5	Pager

2.1.4 Transmission Format For Receiver 1

Location	033
1	Contact ID
2	4 + 2 Expressed
3	FSK 300 Baud
4	Domestic
5	Basic Pager
6	Reserved
7	Reserved
8	4 + 2 Pulsed

2.1.5 Subscriber ID Number For Receiver 1

Location	034 to 039
Default	0
Right justified	

2.1.6 Phone Number 1 - Receiver 2

Location	040 to 055
Default	0
0 = 10 and telephone termination = 0	
Anywhere else 0 = 0	

2.1.7 Phone Number 2 - Receiver 2

Location	056 to 071
Default	0
0 = 10 and telephone termination = 0	
Anywhere else 0 = 0	

2.1.8 Handshake Tone For Receiver 2

Location	072
1	HI-LO handshake (contact ID)
2	1400 Hz (Ademco TX @ 1900 Hz)
3	2300 Hz (Sescoa TX @ 1800 Hz)
4	No handshake
5	Pager

2.1.9 Transmission Format For Receiver 2

Location	073
1	Contact ID
2	4 + 2 Expressed
3	FSK 300 Baud
4	Domestic
5	Basic Pager
6	Reserved
7	Reserved
8	4 + 2 Pulsed

2.1.10 Subscriber ID Number For Receiver 2

Location	074 to 079
Default	0
Right justified	

2.1.11 Dialling Format

Location	080
1	Australian DTMF
2	Australian Decadic
3	Alternate DTMF and Decadic (Aust)
4	International DTMF
5	Reversed Decadic
6	Alternate DTMF and Reversed Decadic

2.1.12 Reserved

Location	081 to 112

2.1.13 Telco Arming Sequence (Call Forward On)

Location	113 to 142
Default	0

2.1.14 Telco Disarm Sequence (Call Forward Off)

Location	143 to 158
Default	0

2.1.15 Call Back Telephone Number

Location	159 to 174
Default	0
0 = 10 and telephone termination = 0	
Anywhere else 0 = 0	

2.1.16 Ring Count

Location	175
Default	8
0	Panel does not answer
1 to 13	No. of rings until panel answers
14	Answering machine bypass 2
15	Answering machine bypass 1

2.1.17 Telephone Line Fail Options

Location	176
Default	0
1	Display FAULT Indicator when telephone line fails
2	Sound alarm when system is armed
4	Sound alarm when system is disarmed
	Options 2 and 4 must be used in conjunction with Option 1 (for example, program 1, 3, 5, or 7)

2.1.18 Dialler Options 1

Location	177
1	Dialler reporting functions allowed
2	Remote arming by telephone allowed
4	Answering machine bypass only when armed
8	Use Bell 103 for FSK format (Disabled = CCITT V21)

2.1.19 Dialler Options 2

Location	178
Default	0
1	Open/Close Reports only if previous alarm
2	Open/Close Reports for STAY Mode 1 and STAY Mode 2
4	Delay siren until transmission complete
8	Extend handshake wait time from 30 to 55 sec.

2.1.20 Dialler Options 3

Location	179
Default	0
1	Set DTMP dialling pulses to 1 digit/sec.
2	Lockout telephone line fail alarm (V1.03+)
4	Change Decadic dialling to 60/40
8	Reserved

2.1.21 Dialler Options 3 (V1.04+)

Location	179
1	Set DTMP dialling pulses to 1 digit/sec.
2	Lockout telephone line fail alarm (V1.03+)
4	Change Decadic dialling to 60/40
8	External modem module (CC811) required for FSK (V1.09+)

2.1.22 Alarm Link Options

Location	180
1	Upload/download allowed
2	Call back phone number required for upload/download
4	Exit upload/download connection on alarm
8	External modem module (CC811) required for alarm link

2.2 Installer Code

Location	181 to 184	
	Location	Default
	181	1
	182	2
	183	3
	184	4

2.3 User Code Programming

2.3.1 User Codes

Location	185 to 264	
	Location	Default
User #01	185	2
	186	5
	187	8
	188	0
	189 (Authority Level)	10
User #02	190 to 193	15
	194	2
User #03	195 to 198	15
	199 (Authority Level)	2
User #04	200 to 203	15
	204 (Authority Level)	2
User #05	205 to 208	15
	209 (Authority Level)	2
User #06	210 to 213	15
	214 (Authority Level)	2
User #07	215 to 218	15
	219 (Authority Level)	2
User #08	220	0
	221 to 223	15
	224 (Authority Level)	3
RF User #09	225 to 228	15
	229 (Authority Level)	2
RF User #10	230 to 233	15
	234 (Authority Level)	2
RF User #11	235 to 238	15
	239 (Authority Level)	2
RF User #12	240 to 243	15
	244 (Authority Level)	2
RF User #13	245 to 248	15
	249 (Authority Level)	2
RF User #14	250 to 253	15
	254 (Authority Level)	2
RF User #15	255 to 258	15
	259 (Authority Level)	2
RF User #16	260 to 263	15
	264 (Authority Level)	2

2.3.2 Authority Levels

Authority Levels	Description
0	Arm/Disarm
1	Arm Only
2	Arm/Disarm and Open/Close Reports
3	Arm Only and Close Reports
4	Arm/Disarm and Code Required to Isolate
6	Arm/Disarm and Open/Close Reports and Code Required to Isolate
8	Master Code and Arm/Disarm
10	Master Code and Arm/Disarm and Open/Close Reports
12	Master Code and Arm/Disarm and Code Required to Isolate
14	Master Code and Arm/Disarm and Code Required to Isolate and Open/Close Reports

2.4   Day Alarm Zones

Location	265
Default	0
1	Zone 1
2	Zone 2
4	Zone 3
8	Zone 4

2.5   EOL Resistor Value

Location	266
0	No EOL
1	1k
2	1k5
3	2k2
4	3k3
5	3k9
6	4k7
7	5k6
8	6k8
9	10k
10	12k
11	22k
12	Reserved
13	Reserved
14	Split EOL (3k3/6k8 with tamper 1k)
15	Split EOL (3k3/6k8)

2.6   Zone Programming

2.6.1   Zone Defaults

Location	267 to 322		
		Location	**Default**
Zone #01 (Default = Delay-1)			
Zone Type		267	2
Zone Pulse Count		268	0
Zone Pulse Count Time		269	0
Zone Options 1		270	1
Zone Options 2		271	14
Report Code		272	1
Dialler Options		273	1
Zone #02 (Default = Handover)			
Zone Type		274	1
Zone Pulse Count		275	0
Zone Pulse Count Time		276	0
Zone Options 1		277	1
Zone Options 2		278	14
Report Code		279	1
Dialler Options		280	1
Zone #03 (Default = Handover)			
Zone Type		281	1
Zone Pulse Count		282	0
Zone Pulse Count Time		283	0
Zone Options 1		284	1
Zone Options 2		285	14
Report Code		286	1
Dialler Options		287	1

2.6.1 Zone Defaults (continued)

Location	267 to 322	
Zone #04 (Default = Handover)		
Zone Type	288	1
Zone Pulse Count	289	0
Zone Pulse Count Time	290	0
Zone Options 1	291	1
Zone Options 2	292	14
Report Code	293	1
Dialler Options	294	1
Zone #05 (Default = Instant)		
Zone Type	295	0
Zone Pulse Count	296	0
Zone Pulse Count Time	297	0
Zone Options 1	298	1
Zone Options 2	299	14
Report Code	300	1
Dialler Options	301	1
Zone #06 (Default = Instant)		
Zone Type	302	0
Zone Pulse Count	303	0
Zone Pulse Count Time	304	0
Zone Options 1	305	1
Zone Options 2	306	14
Report Code	307	1
Dialler Options	308	1
Zone #07 (Default = Instant)		
Zone Type	309	0
Zone Pulse Count	310	0
Zone Pulse Count Time	311	0
Zone Options 1	312	1
Zone Options 2	313	14
Report Code	314	1
Dialler Options	315	1
Zone #08 (Default = 24 hr. Tamper)		
Zone Type	316	9
Zone Pulse Count	317	0
Zone Pulse Count Time	318	0
Zone Options 1	319	1
Zone Options 2	320	12
Report Code	321	1
Dialler Options	322	1

2.6.2 Zone Types

Zone Type	Description
0	Instant
1	Handover
2	Delay-1
3	Delay-2
4	Reserved
5	Reserved
6	24 hr. Medical
7	24 hr. Panic
8	24 hr. Hold-up
9	24 hr. Tamper
10	Reserved
11	Keyswitch
12	24 hr. Burglary
13	24 hr. Fire
14	Chime
15	Not Used

2.6.3 Zone Pulse Count

Use the pulse count to program how many pulses (0 to 15) need to be registered within the pulse count time to activate an alarm.

2.6.4 Zone Pulse Count Time

Option	20 ms Loop Response Time	Option	150 ms Loop Response Time
0	0.5 sec.	8	20 sec.
1	1 sec.	9	30 sec.
2	2 sec.	10	40 sec.
3	3 sec.	11	50 sec.
4	4 sec.	12	60 sec.
5	5 sec.	13	90 sec.
6	10 sec.	14	120 sec.
7	15 sec.	15	200 sec.

2.6.5 Zone Options 1

Option	Description
1	Lockout siren/dialler
2	Delay Alarm report
4	Silent alarm
8	Sensor watch

2.6.6 Zone Options 2

Option	Group
1	Isolated in STAY Mode 1
2	Zone isolation allowed
4	Forces arming allowed
8	Zone Restore Report allowed

2.6.7 Zone Dialler Options

Option	Description
0	No zone reports allowed
1	Report to Receiver 1
2	Report to Receiver 2
4	Report to both Receiver 1 and Receiver 2
8	Report to Receiver 2 only if Receiver 1 fails

2.6.8 Keyswitch Zone Options

The keyswitch zone options replace Zone Options 1 only for the zones that were programmed to operate as a keyswitch zone.

Option	Description
0	Latching arm and disarm in AWAY Mode
1	Latching arm in AWAY Mode
2	Latching disarm from AWAY Mode or STAY Mode
4	Latching arm and disarm in STAY Mode
5	Latching arm in STAY Mode
6	Latching disarm from STAY Mode
8	Momentary arm and disarm in AWAY Mode
9	Momentary arm in AWAY Mode
10	Momentary disarm from AWAY Mode or STAY mode
12	Momentary arm and disarm in STAY Mode
13	Momentary arm in STAY Mode
14	Momentary disarm from STAY Mode

2.7 Swinger Programming

2.7.1 Swinger Shutdown Count For Siren

Location	323
Default	3
0	Unlimited
1 to 15	Number of times siren operates until lockout

2.7.2 Swinger Shutdown Count For Dialler

Location	324
Default	6
0	Unlimited
1 to 15	Number of times dialler operates until lockout

2.8 Zone Status Programming

2.8.1 Zone Status – Zone Tamper Report

Location	325 to 326		
		Location	Default
Zone Tamper Report		325	0
Zone Tamper Restore Report		326	0

2.8.2 Zone Status – Walk Test Report

Location	327 to 328		
		Location	Default
Walk Test Start Report		327	0
Walk Test End Report		328	0

2.8.3 Zone Status – Bypass Report

Location	329 to 330		
		Location	Default
Zone Bypass Report		329	9
Zone Bypass Restore Report		330	8

2.8.4 Zone Status – Trouble Report

Location	331 to 332		
		Location	Default
Zone Trouble Report		331	2
Zone Trouble Restore Report		332	3

2.8.5 Zone Status – Sensor Watch Report

Location	333 to 334		
		Location	Default
Sensor Watch Report		333	4
Sensor Watch Restore Reprot		334	5

2.8.6 Zone Status – Alarm Restore Code

Location	335
Default	14

2.8.7 Zone Status Reporting Options

Location	336
0	No zone status reports allowed
1	Report to Receiver 1
2	Report to Receiver 2
4	Report to both Receiver 1 and Receiver 2
8	Report to Receiver 2 only if Receiver 1 fails

2.9 RF Programming

2.9.1 RF Supervision Time

Location	337
Default	0
Increments of 6 hrs. (0 to 90 hrs.)	

2.9.2 RF Low Battery Report

Location	338 to 339		
		Location	Default
RF Low Battery Report		338	6
RF Low Battery Restore Report		339	8

2.9.3 RF Receiver Trouble Report

Location	340 to 341		
		Location	Default
RF Receiver Trouble Report (tens digit)		340	7
RF Receiver Trouble Report (units digit)		341	9

2.9.4 RF Receiver Trouble Restore Report

Location	342 to 343		
		Location	Default
RF Receiver Trouble Restore Report (tens digit)		342	7
RF Receiver Trouble Restore Report (units digit)		343	11

2.9.5 RF Dialler Options

Location	344
0	No Zone Status Reports allowed
1	Report to Receiver 1
2	Report to Receiver 2
4	Report to both Receiver 1 and Receiver 2
8	Report to Receiver 2 only if Receiver 1 fails

2.10 Report Programming

2.10.1 Open/Close Reports

Location	345 to 346		
		Location	Default
Open Report		345	11
Close Report		346	12

2.10.2 Open/Close Reporting Options

Location	347
0	No Open/Close Reports allowed
1	Report to Receiver 1
2	Report to Receiver 2
4	Report to both Receiver 1 and Receiver 2
8	Report to Receiver 2 only if Receiver 1 fails

2.10.3 Codepad Duress Report

Location	348
Default	6

2.10.4 Codepad Panic Report

Location	349 to 350		
		Location	Default
Tens digit		349	7
Units digit		350	15

2.10.5 Codepad Fire Report

Location	351 to 352		
		Location	Default
Tens digit		351	7
Units digit		352	14

2.10.6 Codepad Medical Report

Location	353 to 354		
		Location	Default
Tens digit		353	7
Units digit		354	13

2.10.7 Codepad Reporting Options

Location	355
0	No Codepad Alarm Reports allowed
1	Report to Receiver 1
2	Report to Receiver 2
4	Report to both Receiver 1 and Receiver 2
8	Report to Receiver 2 only if Receiver 1 fails

2.11 System Status Programming

2.11.1 System Status – Fuse Fail Report

Location	356 to 357		
		Location	Default
Tens digit		356	10
Units digit		357	3

2.11.2 System Status – Fuse Fail Restore Report

Location	358 to 359		
		Location	Default
Tens digit		358	10
Units digit		359	8

2.11.3 System Status – AC Fail Report

Location	360 to 361		
		Location	Default
Tens digit		360	10
Units digit		361	2

2.11.4 System Status – AC Fail Restore Report

Location	362 to 363		
		Location	Default
Tens digit		362	10
Units digit		363	7

2.11.5 System Status – Low Battery Report

Location	364 to 365		
		Location	Default
Tens digit		364	10
Units digit		365	1

2.11.6 System Status – Low Battery Restore Report

Location	366 to 367		
		Location	Default
Tens digit		366	10
Units digit		367	6

2.11.7 System Status – Access Denied (Code Retry)

Location	368 to 370		
		Location	Default
Code retry limit (0 = unlimited)		368	6
Tens digit		369	7
Units digit		370	12

2.11.8 System Status Reporting Options

Location	371
0	No Codepad Alarm Reports allowed
1	Report to Receiver 1
2	Report to Receiver 2
4	Report to both Receiver 1 and Receiver 2
8	Report to Receiver 2 only if Receiver 1 fails

2.12 Test Report Programming

2.12.1 Test Report Time (Automatic)

Location	372 to 378		
		Location	Default
Hour of day (tens digit)		372	0
Hour of day (units digit)		373	0
Minute of day (tens digit)		374	0
Minute of day (units digit)		375	0
Test report (tens digit)		376	7
Test report (units digit)		377	1
Repeat interval in days		378	0

2.12.2 Test Reporting Dialler Options

Location	379
0	No Codepad Alarm Reports allowed
1	Report to Receiver 1
2	Report to Receiver 2
4	Report to both Receiver 1 and Receiver 2
8	Report to Receiver 2 only if Receiver 1 fails

2.13 Output Programming

2.13.1 Outputs

Location	380 to 409		
		Location	Default
Output 1 (Default = Horn Speaker)			
Event Code		380	1
Event Code		381	14
Polarity		382	0
Time Base		383	0
Time Base Multiplier		384	0
Time Base Multiplier		385	0
Output 2 (Default = Fire Alarm With Verification)			
Event Code		386	2
Event Code		387	7
Polarity		388	10
Time Base		389	2
Time Base Multiplier		390	1
Time Base Multiplier		391	5
Strobe Output (Default = Strobe – Reset After 8 hrs.)			
Event Code		392	2
Event Code		393	0
Polarity		394	6
Time Base		395	4
Time Base Multiplier		396	0
Time Base Multiplier		397	8
Relay Output (Default = Sirens Running)			
Event Code		398	1
Event Code		399	15
Polarity		400	1
Time Base		401	0
Time Base Multiplier		402	0
Time Base Multiplier		403	0
Codepad Buzzer (Default = Entry/Exit Warning and Day Alarm)			
Event Code		404	0
Event Code		405	13
Polarity		406	2
Time Base		407	1
Time Base Multiplier		408	0
Time Base Multiplier		409	1

2.13.2   Event Codes

Event Code		Description
0	0	EDMSAT – satellite siren (output 1 only)
0	1	System armed
0	2	System disarmed
0	3	Armed in STAY mode
0	4	Armed in AWAY mode
0	5	Pre-arming alert
0	6	Exit warning (all zones sealed) and entry warning
0	7	Exit warning
0	8	Exit warning finished
0	9	Kiss-off after end of exit time
0	10	Reserved
0	11	Entry warning
0	12	Entry warning and day alarm resetting
0	13	Exit warning and entry warning and day alarm resetting
0	14	Day alarm resetting
0	15	Day alarm latching
1	0	Day alarm enabled
1	1	Telephone line fail
1	2	Kiss-off received
1	3	Fuse fail
1	4	AC fail
1	5	Low battery
1	6	Horn speaker fail
1	7	Sensor watch alarm
1	8	Codepad medical alarm
1	9	Codepad fire alarm
1	10	Codepad panic alarm
1	11	Codepad duress alarm
1	12	Access denied (code retries)
1	13	Reserved
1	14	Horn speaker (output 1 only)
1	15	Sirens running
2	0	Strobe
2	1	Silent alarm
2	2	Alarm in STAY Mode
2	3	Alarm in AWAY Mode
2	4	System fault
2	5	Fire alarm (resetting)
2	6	Fire alarm (latching)
2	7	Fire alarm (verification)
2	8	Remote control 1
2	9	Remote control 2
2	10	Remote control 3
2	11	Radio control output 1
2	12	Radio control output 2
2	13	Radio control output 1 - not in AWAY Mode
2	14	Radio control output 2 - not in AWAY Mode
2	15	Communications fail after 3 attempts

2.13.2 Event Codes (continued)

Event Code		Description
3	0	Communications fail
3	1	Dialler disabled
3	2	Dialler active (on-line)
3	3	Ring detect
3	4	Codepad panic (multi-break) V1.05+
3	5	Mimic zone 1
3	6	Mimic zone 2
3	7	Mimic zone 3
3	8	Mimic zone 4
3	9	Mimic zone 5
3	10	Mimic zone 6
3	11	Mimic zone 7
3	12	Mimic zone 8
3	13	Reserved
3	14	Reserved
3	15	Reserved
4	0	Reserved
4	1	Reserved
4	2	Reserved
4	3	Reserved
4	4	Reserved
4	5	Chime
4	6	Zone not sealed
4	7	Zone not sealed after exit time
4	8	Reserved
4	9	AC mains cycle (60 Hz or 50 Hz)
4	10	Area 1 – zone unsealed (Solution 880 only)
4	11	Area 2 – zone unsealed (Solution 880 only)
4	12	Reserved
4	13	Reserved
4	14	Reserved
4	15	Reserved
5	0	Reserved
5	1	Reserved
5	2	Area 1 in alarm (Solution 880 only)
5	3	Area 2 in alarm (Solution 880 only)
5	4	Reserved
5	5	Reserved
5	6	Area 1 armed (Solution 880 only)
5	7	Area 2 armed (Solution 880 only)
5	8	Reserved
5	9	Reserved
5	10	Area 1 disarmed (Solution 880 only)
5	11	Area 2 disarmed (Solution 880 only)
5	12	Reserved
5	13	Reserved
5	14	Any areas armed (Solution 880 only)
5	15	Any areas disarmed (Solution 880 only)
6	0	Area 1 codepad data terminal (Solution 880 only)
6	1	Area 2 codepad data terminal (Solution 880 only)

2.13.3   Polarity (Modes)

Option	Description
0	Disabled
1	Normally open, going low
2	Normally open, pulsing low
3	Normally open, one shot low
4	Normally open, one shot low (reset)
5	Normally open, one shot low (re-trigger)
6	Normally open, latching low
7	Reserved
8	Normally low, going open
9	Normally low, pulsing open
10	Normally low, one shot open
11	Normally low, one shot open (reset)
12	Normally low, one shot open (re-trigger)
13	Normally low, latching open

2.13.4   Time Base

Option	Description
1	200 ms
2	1 sec.
3	1 min.
4	1 hr.

2.13.5   Time Base Multiplier

Enter a value between 01 and 99.

2.13.6   One Shot Mode

When you program the output polarity as one shot, the time base is multiplied by the time base multiplier. (For example, if the time base = 2 and the multiplier = 05, the output operates for 10 sec.)

2.13.7   Pulsing Mode

When you program the output polarity as pulsing, the time base becomes the ON time and the multiplier becomes the OFF time. The OFF time is the time base x the multiplier. (For example, if you want the output to pulse 1 sec. ON and 5 sec. OFF, you would program time base as one and the multiplier as five.)

2.14   Time Programming

2.14.1   Entry Time 1

Location	410 to 411	
	Location	**Default**
Increments of 1 sec. (0 to 15 sec.)	410	4
Increments of 16 sec. (0 to 240 sec.)	411	1

2.14.2   Entry Time 2

Location	412 to 413	
	Location	**Default**
Increments of 1 sec. (0 to 15 sec.)	412	8
Increments of 16 sec. (0 to 240 sec.)	413	2

2.14.3   Exit Time (AWAY/STAY Modes)

Location	414 to 415	
	Location	**Default**
Increments of 1 sec. (0 to 15 sec.)	414	12
Increments of 16 sec. (0 to 240 sec.)	415	3

2.14.4   Entry Guard Time For STAY Mode

Location	416 to 417	
	Location	**Default**
Increments of 1 sec. (0 to 15 sec.)	416	0
Increments of 16 sec. (0 to 240 sec.)	417	0

2.14.5   Delay Alarm Report Time

Location	418 to 419	
	Location	**Default**
Increments of 1 sec. (0 to 15 sec.)	418	0
Increments of 16 sec. (0 to 240 sec.)	419	0

2.14.6   Sensor Watch Time

Location	420 to 421	
	Location	Default
Increments of days (tens digit)	420	0
Increments of days (units digit)	421	0

2.14.7   Codepad Lockout Time

Location	422
Default	0
Increments of 10 sec. (0 sec. to 150 sec.)	

2.14.8   Siren Run Time

Location	423
Default	5
Increments of 1 min. (0 min. to 15 min.)	

2.14.9   Siren Sound Rate

Location	424
Default	7
0 = Slowest frequency	
15 = Fastest frequency	

2.14.10   Auto Arming Pre-Alert Time

Location	425
Default	1
Increments of 5 min. (0 min. to 75 min.)	

2.14.11   Auto Arming Time

Location	426 to 429	
	Location	Default
Hour of the day (tens digit)	426	0
Hour of the day (units digit)	427	0
Minute of the day (tens digit)	428	0
Minute of the day (units digit)	429	0

2.14.12   Auto Disarming Time

Location	430 to 433	
	Location	Default
Hour of the day (tens digit)	430	0
Hour of the day (units digit)	431	0
Minute of the day (tens digit)	432	0
Minute of the day (units digit)	433	0

2.14.13   Kiss-Off Wait Time

Location	434
Default	3
Increments of 500 ms (500 ms = 8 sec.)	

2.14.14 Speaker Beep Volume

Location	435
Default	13
0	No Beeps
15	Loudest Beeps

2.15 Options Programming

2.15.1 System Options 1

Location	436
1	Bosch Security Systems smart lockout allowed
2	Horn speaker monitor
4	Strobe indication for radio arm/disarm
8	Assign button 4 on transmitter to operate STAY Mode 1

2.15.2 System Options 2

Location	437
Default	0
1	Codepad panic to be silent
2	Codepad fire to be silent
4	Codepad medical to be silent
8	Access denied (code retries) to be silent

2.15.3 System Options 3

Location	438
1	AC fail after 1 hr. (Disabled = after 2 min.)
2	Ignore AC fail
4	Pulse count handover allowed
8	Handover delay to be sequential

2.15.4 System Options 4

Location	439
Default	0
1	Panel to power up disarmed (if power reset)
2	Arm/disarm tracking on power up
4	Internal crystal to keep time
8	Radio keyswitch interface, night arm station, or RE005 installed

2.15.5 Consumer Options 1

Location	440
Default	0
1	Test reports only when armed
2	Test report after siren reset
4	Auto arm in STAY Mode 1
8	STAY indicator to display day alarm status

2.15.6 Consumer Options 2

Location	441
1	Codepad displays extinguish after 60 sec.
2	Single button arming allowed (AWAY/STAY Modes 1 and 2)
4	Single button disarming allowed (STAY Modes 1 and 2)
8	Alarm memory reset on disarm

2.15.7 Consumer Options 3

Location	442
1	Codepad fault beeps allowed
2	Use digit 3 for codepad duress alarm (instead of digit 9)
4	Alarms activate sirens and strobe outputs in STAY Modes 1 and 2
8	Zone tamper alarms to be silent

2.15.8 Radio Input Options

Location	443
Default	0
1	RF Receiver (RF-3212/E) connected
2	Latching keyswitch input
3	Momentary keyswitch input
4	Reserved

2.15.9 Partitioning Options 1

Location	444
Default	0
1	First to Open/Last to Close reporting armed
2	Area 1 codepad connected to data terminal
4	Reset sirens from any area allowed
8	Master codepad to display AUX indicator when online

2.15.10 Partitioning Options 2

Location	445
Default	0
1	Lock area 1 to Receiver 1 and lock area 2 to Receiver 2
2	User codes allowed to arm/disarm both areas at same time (Code [0][#])
4	Reserved
8	Reserved

2.16 Zone Allocations Programming

2.16.1 Zone Allocations for Area 1

Location	446 to 453		
		Location	Default
Zone 1 LED – Area 1 Codepad		446	0
Zone 2 LED – Area 1 Codepad		447	0
Zone 3 LED – Area 1 Codepad		448	0
Zone 4 LED – Area 1 Codepad		449	0
Zone 5 LED – Area 1 Codepad		450	0
Zone 6 LED – Area 1 Codepad		451	0
Zone 7 LED – Area 1 Codepad		452	0
Zone 8 LED – Area 1 Codepad		453	0

2.16.2 Zone Allocations for Area 2

Location	454 to 461		
		Location	Default
Zone 1 LED – Area 2 Codepad		454	0
Zone 2 LED – Area 2 Codepad		455	0
Zone 3 LED – Area 2 Codepad		456	0
Zone 4 LED – Area 2 Codepad		457	0
Zone 5 LED – Area 2 Codepad		458	0
Zone 6 LED – Area 2 Codepad		459	0
Zone 7 LED – Area 2 Codepad		460	0
Zone 8 LED – Area 2 Codepad		461	0

2.17   User Code Area Assignment

Location 462 to 477		
	Location	Default
User Code 1	462	0
User Code 2	463	0
User Code 3	464	0
User Code 4	465	0
User Code 5	466	0
User Code 6	467	0
User Code 7	468	0
User Code 8	469	0
User Code 9	470	0
User Code 10	471	0
User Code 11	472	0
User Code 12	473	0
User Code 13	474	0
User Code 14	475	0
User Code 15	476	0
User Code 16	477	0
0	User code not assigned	
1	User code assigned to Area 1	
2	User code assigned to Area 2	
3	User code assigned to both Area 1 and Area 2	

2.18   Domestic Telephone Numbers

Location   478 to 525

2.19   Reserved

Location	526
Default	0

2.20   RF Programming

2.20.1   RF Options

Location	527
Default	0
1	Sound siren on RF Receiver fail
2	Sound siren on RF Receiver tamper/jamming
4	Unseal zone that fails supervision (if supervision enabled)
8	RF jamming monitoring allowed

2.20.2   RF Device Mapping for Devices 1 to 8

Location 528 to 535		
	Location	Default
Map RF Device 1 to Zone (1 to 8)	528	1
Map RF Device 2 to Zone (1 to 8)	529	2
Map RF Device 3 to Zone (1 to 8)	530	3
Map RF Device 4 to Zone (1 to 8)	531	4
Map RF Device 5 to Zone (1 to 8)	532	5
Map RF Device 6 to Zone (1 to 8)	533	6
Map RF Device 7 to Zone (1 to 8)	534	7
Map RF Device 8 to Zone (1 to 8)	535	8

2.20.3   RF Device Mapping for Devices 9 to 16

Location 536 to 543		
	Location	Default
Map RF Device 9 to Zone (1 to 8)	536	0
Map RF Device 10 to Zone (1 to 8)	537	0
Map RF Device 11 to Zone (1 to 8)	538	0
Map RF Device 12 to Zone (1 to 8)	539	0
Map RF Device 13 to Zone (1 to 8)	540	0
Map RF Device 14 to Zone (1 to 8)	541	0
Map RF Device 15 to Zone (1 to 8)	542	0
Map RF Device 16 to Zone (1 to 8)	543	0

2.20.4   Ring Burst Time (V1.07+)

Location 748 to 749		
	Location	Default
Increments of 5 ms. (0 to 75 ms)	748	4
Increments of 80 ms. (0 to 1200 ms)	749	6

2.20.5   RF Signal Strength for Devices 1 to 8

Location 801 to 808		
	Location	Default
Signal Strength for RF Device 1	801	0
Signal Strength for RF Device 2	802	0
Signal Strength for RF Device 3	803	0
Signal Strength for RF Device 4	804	0
Signal Strength for RF Device 5	805	0
Signal Strength for RF Device 6	806	0
Signal Strength for RF Device 7	807	0
Signal Strength for RF Device 8	808	0

2.20.6   RF Signal Strength for Devices 9 to 16

Location 809 to 816		
	Location	Default
Signal Strength for RF Device 9	809	0
Signal Strength for RF Device 10	810	0
Signal Strength for RF Device 11	811	0
Signal Strength for RF Device 12	812	0
Signal Strength for RF Device 13	813	0
Signal Strength for RF Device 14	814	0
Signal Strength for RF Device 15	815	0
Signal Strength for RF Device 16	816	0

2.21   System Option Programming

2.21.1   Default Options

Location	900
0	Defaulting System Allowed
15	Defaulting System Disabled

2.21.2   System Time

Location 901 to 904		
	Location	Default
Hour of the day (tens digit)	901	0
Hour of the day (units digit)	902	0
Minute of the day (tens digit)	903	0
Minute of the day (units digit)	904	0

2.21.3　　System Date

Location	905 to 910	
	Location	Default
Day of the month (tens digit)	905	0
Day of the month (units digit)	906	1
Month of the year (tens digit)	907	0
Month of the year (units digit)	908	1
Current year (tens digit)	909	0
Current year (units digit)	910	1

3.0   Solution Ultima RF Receiver Interface

Figure 1:   RF Receiver (RF 3212/E) Wiring Diagram
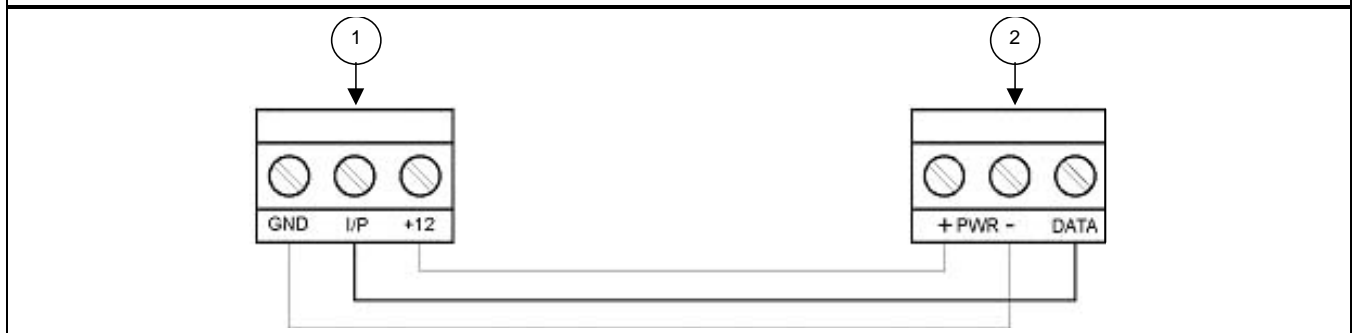
1 = *Solution Ultima Control Panel*

2 = *RF Receiver (RF 3212/E)*

Wiring and Power Up:

1.   Remove power from the control panel.
2.   Connect the RF Receiver to the control panel as shown above using 0.8 mm (22 AWG) or larger wire. Wire length should not exceed 300 m (1000 feet).
3.   Apply power to the control panel. The red LED at the centre of the module turns on.

Operation:

The following describes the status of the module based on the LED condition.

•   LED On – Module is functioning normally.

•   LED Off – Power failure has occurred or module is not wired correctly.

•   LED Turns Off Momentarily – Module acknowledged receiving an RF signal from a remote RF device.

4.0 RF Keyfob Operations

Figure 2:	RF3332/E – 2 Button RF Keyfob
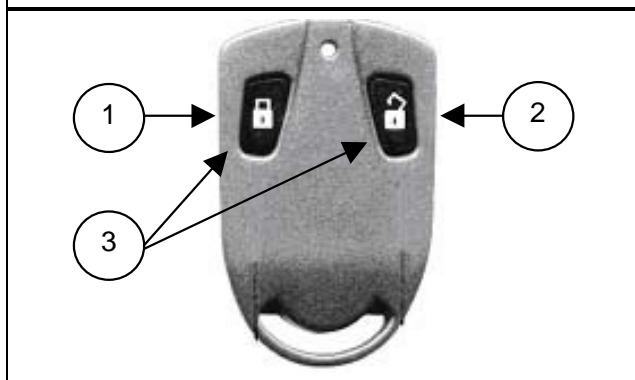
1 = Button 1: Arm in AWAY Mode

2 = Button 2: Disarm from AWAY/STAY Mode

*3 = Buttons 1 and 2: Press both buttons
    simultaneously to activate Panic alarm.*

Figure 3:	RF3332/E – 4 Button RF Keyfob
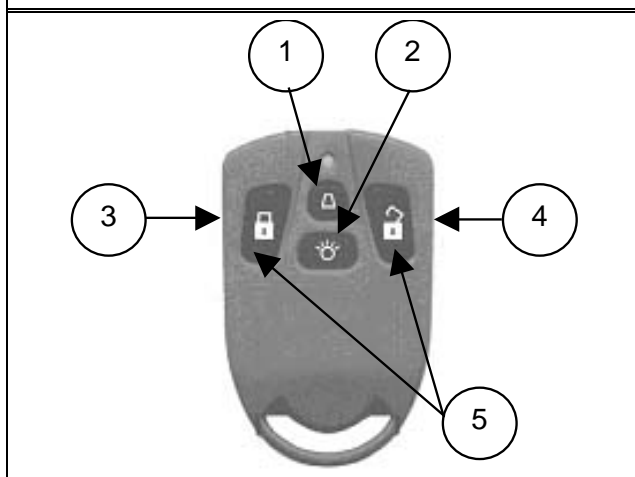
1 = Button 4: Arm in STAY Mode 1

2 = Button 3: Optional

3 = Button 1: Arm in AWAY Mode

4 = Button 2: Disarm from AWAY/STAY Mode

*5 = Buttons 1 and 2: Press both buttons
    simultaneously to activate Panic alarm.*

5.0 Connections for Split EOL Resistors

5.1 8 Burglary Zones

Figure 4:	Split EOL Wiring Diagram (Location 266 = 15)
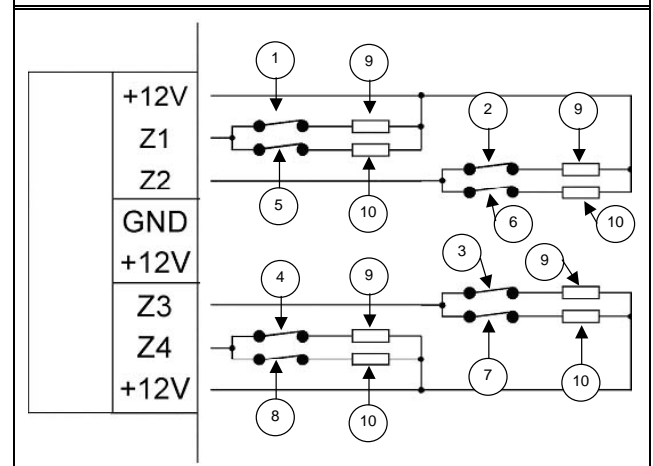
1 = Zone 1	*6 = Zone 6*
2 = Zone 2	*7 = Zone 7*
3 = Zone 3	*8 = Zone 8*
4 = Zone 4	*9 = 3k3*
5 = Zone 5	*10 = 6k8*

Figure 5:	Split EOL Wiring Diagram with Tamper (Location 266 = 14)
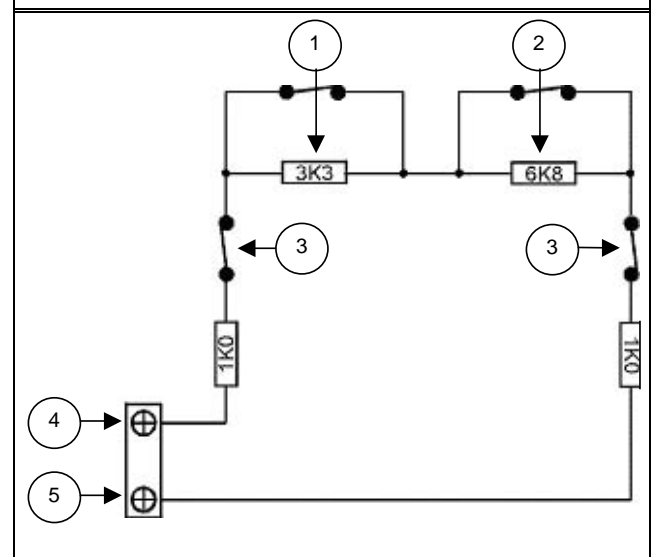
1 = Zone 1

2 = Zone 5

3 = Tamper

4 = +12 V

5 = Zone 1

5.2   8 Zone Operation Using N/O Contacts

Figure 6:   Split EOL Wiring Diagrams Using N/O Contacts
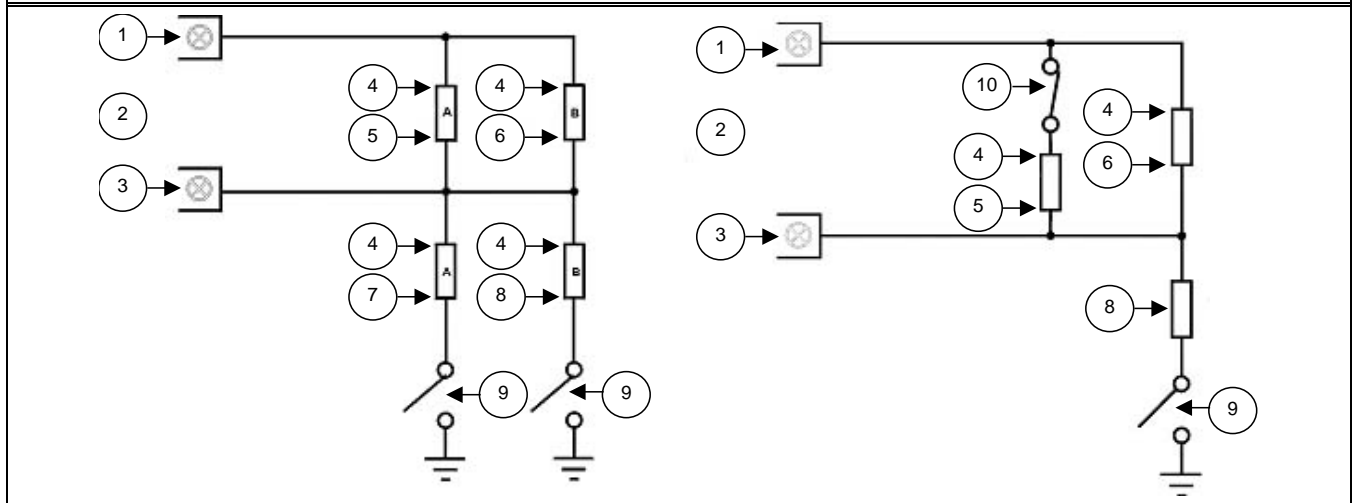
1 = +12 V	*6 = 6k8*
2 = Zone Input	*7 = 1k5*
3 = Zone	*8 = 4k7*
4 = EOL	*9 = N/O*
5 = 3k3	*10 = N/C*

6.0   Wiring Diagrams

6.1   Keyswitch Zone

Figure 7:   Wiring Diagram for Keyswitch Zone
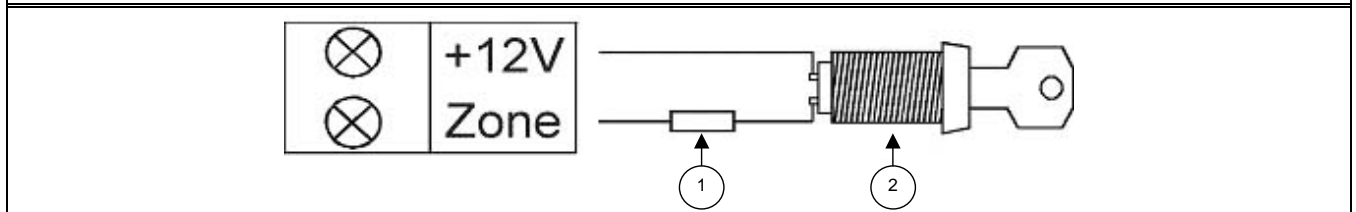
1 = EOL
*2 = Keyswitch (Momentary/Toggle)*

6.2   Solution Ultima Series

Figure 8:   Solution Ultima Series Wiring Diagram

1 = 605 Plug

2 = 1 (Green) - Internal phone line
    5 (Yellow) - Internal phone line
    2 (Black) - Telecom line (street)
    6 (Red) - Telecom line (street)
    3 and 4 - Not used

3 = Power to external equipment: 12V @ 400 Ma

4 = PIR

5 = Piezo siren

6 = Smoke detector
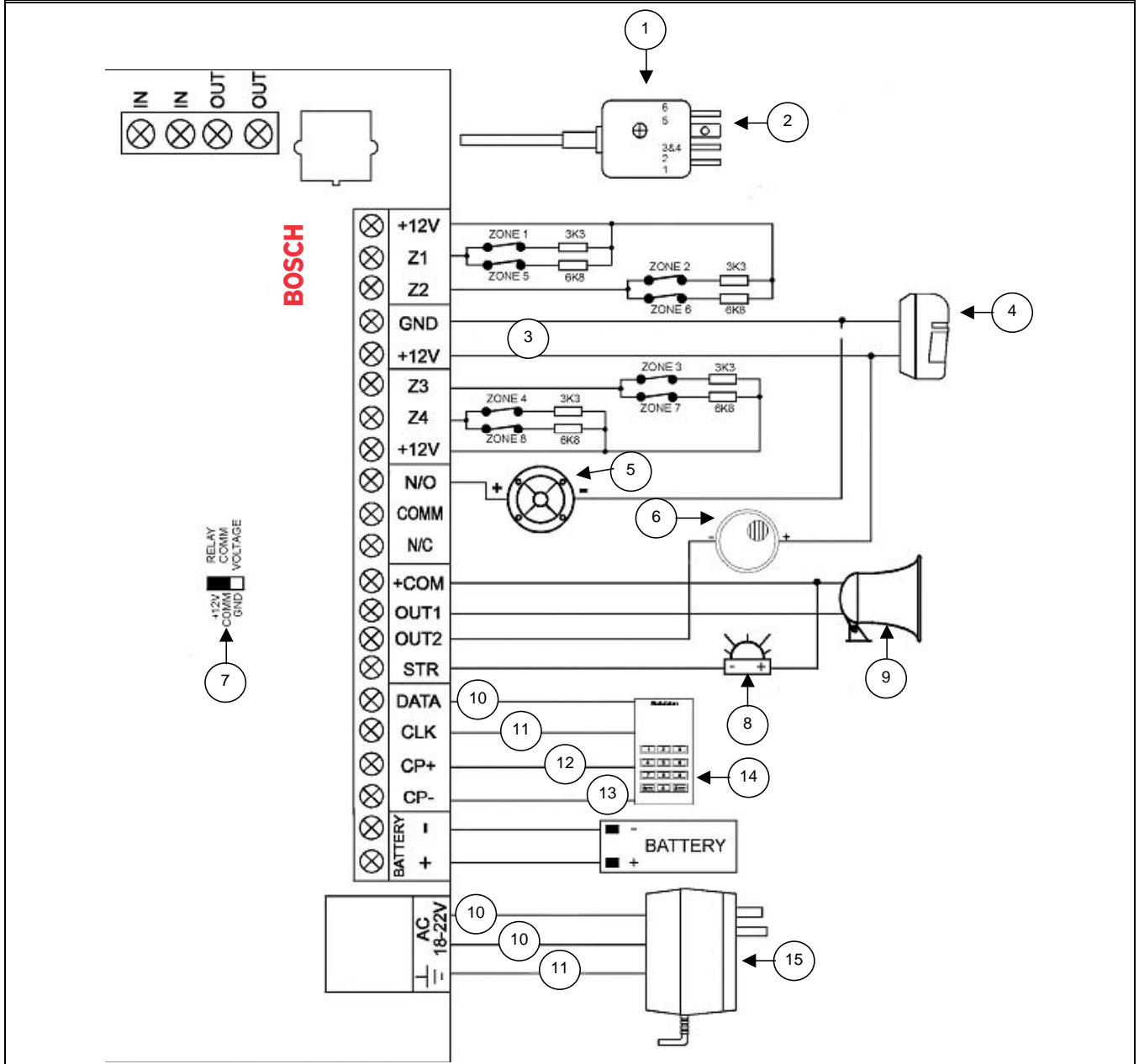
7 = Link between +12 V and Comm

8 = Strobe

9 = Horn speaker

10 = Yellow

11 = Green

12 = Red

13 = Black

14 = Codepad

15 = 18 VAC 1.3 A Plug Pack (TF008)

7.0   Component Overlay

Figure 9: Solution Ultima Series Component Overlay
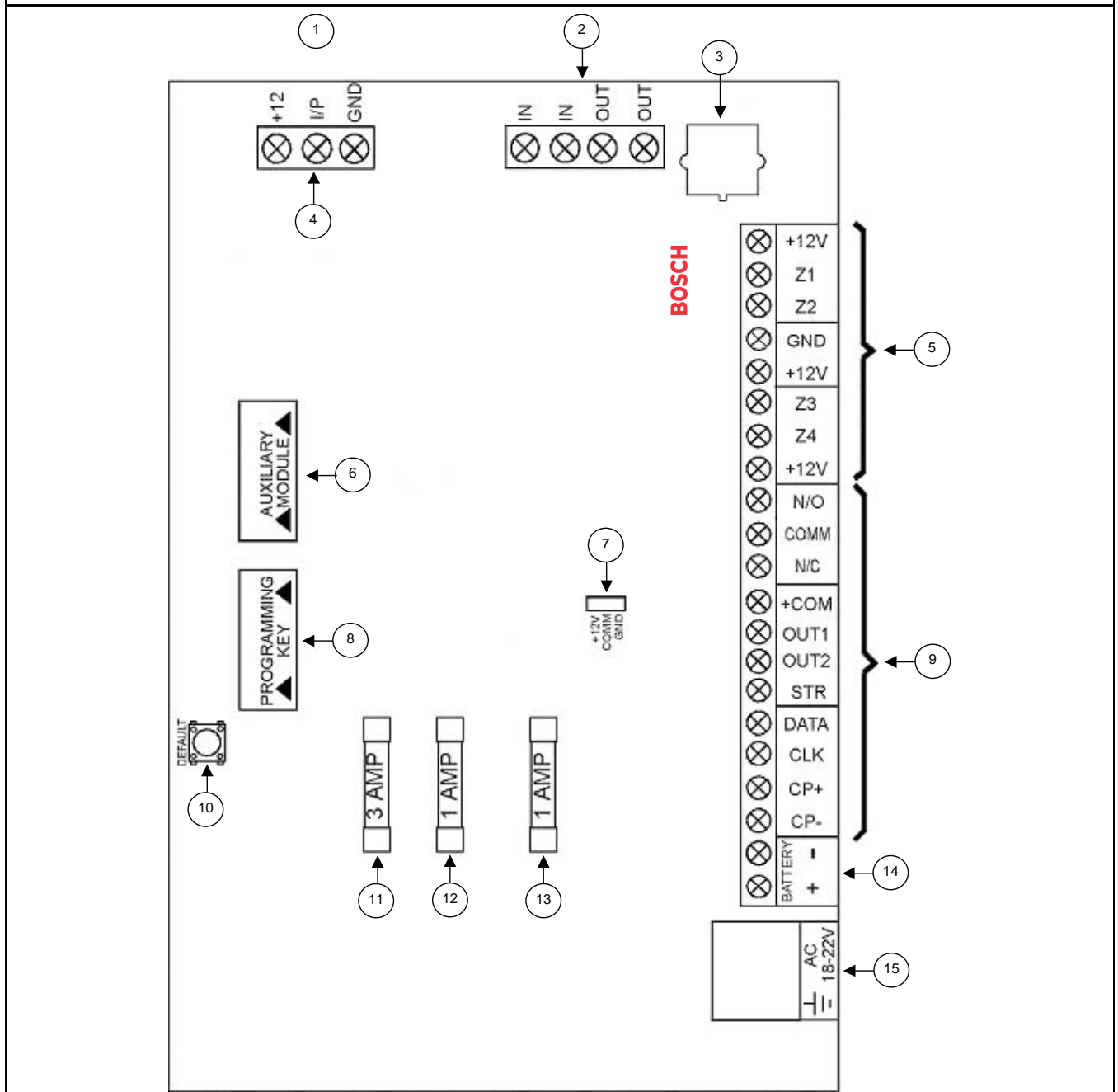
1 = OUT − Internal phone line
  OUT − Internal phone line
  IN − Telecom line (street)
  IN − Telecom line (street)
2 = Termination for phone line
3 = Socket for telecom lead connection
4 = Receiver interface connection
5 = Zone termination strip
6 = Phone amplifier or direct link cable

7 = Relay contact select
8 = Programming key or hand help programmer plugs
9 = Output termination strip
10 = Default switch
11 = 3 A battery fuse
12 = 1 A accessory fuse
13 = 1 A codepad fuse
14 = Battery input
15 = Plug pack input (Bosch Security Systems TF008)

8.0 Codepad Connections Partitioning

Figure 10: Connections for CP-5 Master Partitioned (CP500P) Codepad and CP-5 Area Addressable (CP500A) Codepad
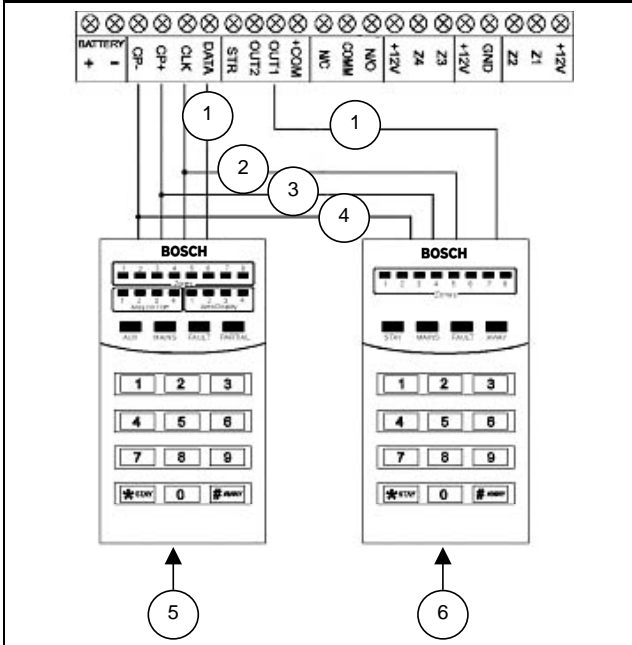
1 = Data

2 = CLK

3 = +12 V

4 = GND

5 = Master Partitioned Codepad

6 = Addressable Area Codepad

If the CP-5 Area Addressable (CP500A) codepad is assigned to Area 1, DIP Switch 1 on the back of the remote codepad must be in the ON position. The following locations for Output 1 must be programmed.
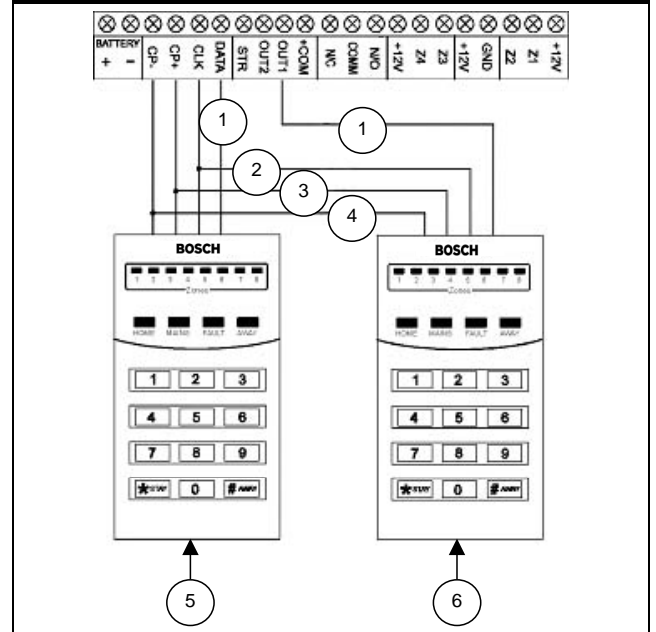
[LOCATION 380 = 6, 381 = 0]

If the CP-5 Area Addressable (CP500A) codepad is assigned to Area 2, DIP Switch 2 on the back of the remote codepad must be in the ON position. The following locations for Output 1 must be programmed.

[LOCATION 380 = 6, 381 = 1]

Note:

The Master Partitioned Keypad requires setting all DIP switches to the ON position to operate correctly.

Figure 11: Connections for Two CP-5 Eight Zone Area Addressable (CP500A) Codepads

1 = Data

2 = CLK

3 = +12 V

4 = GND

5 = Area 1 Codepad

6 = Area 2 Codepad

The following DIP Switch settings and locations must be programmed for the two CP-5 Area Addressable (CP500A) codepads to function correctly.

AREA 1 CODEPAD

DIP Switch 1 on the back of the remote codepad must be in the ON position. The following location must be programmed.

[LOCATION 444, Option bit 2 must be enabled]

AREA 2 CODEPAD - (Output 1)

DIP Switch 2 on the back of the remote codepad must be in the ON position. The following locations for Output 1 must be programmed.

[LOCATION 380 = 6, 381 = 1]

BOSCH