

Solution-8

Quick Reference Guide

ISSUE 1.00



Solution-8

Quick Reference Guide

Copyright © 1997 by Bosch Security Systems Pty Ltd.
SYDNEY, AUSTRALIA
(Previously Electronics Design & Manufacturing Pty Limited)

Document Part Number MA800Q

Document Issue 1.00

Printed 08 June 2004

This documentation is provided to suit *Solution-8* (CC800/LP800)

Firmware Revision 1.00 - 3.00

Hardware Version A

Alarm Link Form - VERSION 1 = SOL8_V1

VERSION 2 = SOL8_V2

VERSION 3 = SOL8_V3

Copyright Notice

All rights reserved. No part of this publication may be reproduced, transmitted or stored in a retrieval system in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of Electronics Design & Manufacturing Pty Limited.

Trademarks

Throughout this document trademark names may have been used. Rather than put a trademark symbol in every occurrence of a trademark name, we state that we are using the names only in an editorial fashion and to the benefit of the trademark owner with no intention of infringement of the trademark.

Notice of Liability

While every precaution has been taken in the preparation of this document, neither Electronics Design & Manufacturing Pty Limited nor any of its official representatives shall have any liability to any person or entity with respect to any liability, loss or damage caused or alleged to be caused directly or indirectly by the information contained in this book.

Electronics Design & Manufacturing Pty Limited reserves the right to make changes to features and specifications at any time without prior notification in the interest of ongoing product development and improvement.

Introduction

Before using the control panel for the first time, we suggest that you read the section in this Quick Reference Guide called "Programming Using The Codepad" to familiarise yourself with the basic programming methodology.

This Quick Reference Guide is supplied to provide installers with enough basic information to wire, configure and operate the control panel. Due to the control panels many programmable features and options, we suggest that you obtain the complete Installation Manual which provides detailed information on all system options and functions as well as detailed information on the numerous programming methods.

Programming

The programming options of this control panel are stored in a non volatile EPROM. This memory will hold all the relevant configuration and user specific data even during a total power loss.

The data retention time is as long as ten years without power, therefore no reprogramming will be required after powering the control panel down.

The data can be altered as many times as required without the need for any additional specialised equipment. This memory is laid out in numerous locations each of which holds the data for a specific function.

In general, the entire programming sequence will consist of nominating the location number and then entering or altering the required data. You will repeat this procedure until all the data has been altered to suit your requirements. The factory default settings have been selected for the control panel to report in Ademco High Speed.

Note: '15' is the maximum value that can be programmed into any location.

There are two programming modes. The Installer's Programming Mode and the Operators Programming Mode. Both programming modes have individual access codes and these two codes must always be programmed differently. The Master Code, as well as being able to arm and disarm the system gives access to the Operators Programming Mode. The Installer's Code only gives access to the Installer's Programming Mode and does NOT arm and disarm the system.

Programming of the *Solution-8* control panel can be carried out via any of the following four methods.

- Remote Codepad
- Hand Held Programmer (CC814)
- Programming Key (CC810)
- Alarm Link Upload/Download Software (CC816)

Note: For further information on the different programming options available for the *Solution-8* control panel, refer to the Installation Manual (MA800I).

Programming Using The Remote Codepad

The control panel must be in a disarmed state with no flashing zone alarm memories to access Installer’s Programming Mode. This can be achieved by entering the **MASTER CODE** followed by the **AWAY** button. The factory default Master Code is **2580**. If the control panel has become armed in the AWAY mode, simply enter the **MASTER CODE** followed by the **AWAY** button again to disarm the control panel.

To access the Installer’s Programming Mode, enter the four digit **INSTALLER CODE** followed by the **AWAY** button. The factory default Installer Code is **1234**. Three beeps will be heard and both the AWAY and the STAY indicators will flash simultaneously. The combination of the MAINS and ZONE indicators will indicate the data stored in the first location of the Primary Telephone Number (LOCATION 000).

Data Value	Zone 1 LED	Zone 2 LED	Zone 3 LED	Zone 4 LED	Zone 5 LED	Zone 6 LED	Zone 7 LED	Zone 8 LED	FAULT LED
0									
1	✓								
2		✓							
3			✓						
4				✓					
5					✓				
6						✓			
7							✓		
8								✓	
9									✓
10	✓								✓
11		✓							✓
12			✓						✓
13				✓					✓
14					✓				✓
15						✓			✓

Zone Indicators When Programming

Example

To move to a particular programming location, enter the location number required followed by the **AWAY** button. The data of the new location will now be displayed.

To move to the next location, press the **AWAY** button. This will step you to the next location and the data in that location will be displayed via the zone LED indicators.

If you press the **STAY** button without previously entering a location number, the system will step back one location. To change data in the current location, enter the new value followed by the **STAY** button. This will store the new data into the location and still leave you positioned at the same location.

To proceed to the next location, press the **AWAY** button. The next locations data will now be displayed.

To exit the Installer’s Programming Mode, enter the command **260** followed by the **AWAY** button. Two beeps will be heard and the system will return to normal.

For a more detailed explanation, refer to the *Solution-8* Installation Manual (MA800I)

Note: The valid address range for a *Solution-8* control panel is 000 to 253.

Quick Start

The following steps will enable you to use the *Solution-8* control panel with the default values as set at the factory. The default settings allow the panel to communicate in Ademco High Speed Format.

1. Connect AC power to the unit.

The MAINS indicator will remain on as will the AWAY indicator. The unit is now in the armed state.

2. The battery should now be connected.
3. Enter the default Master Code **2580** followed by the **AWAY** button. The AWAY indicator will extinguish. The control panel is now in the disarmed state. Installer's Programming Mode can now be accessed.
4. Enter the factory default Installer Code **1234** followed by the **AWAY** button. The STAY and AWAY indicator's will now flash simultaneously. Refer to "LOCATION 56 - 59" for the locations of the factory default Installer's Code.
5. Enter the primary, secondary telephone numbers and the Subscriber ID Number.
6. Set the time for the test reports if this option is required. Any other programming changes required can also be programmed, otherwise the programmed factory default settings will be used.
7. Enter command **260** followed by the **AWAY** button to exit Installer's Programming Mode. The panel will return to the disarmed state and is now ready for use. Refer to "Installer's Programming Commands" on page 6 for further commands that can be performed during access of Installer's Programming Mode.

Zone Default Settings

The default zone settings are as listed in the table below.

<i>Zone No.</i>	<i>Zone Type</i>
1	Delay
2 - 7	Instant
8	24 Hour

Note: The example given in this Quick Reference Guide is a simplified description of how to configure the panel. The system offers many other programmable features which are described in greater detail in the *Solution-8 Installation Manual (MA800I)*.

Installer's Programming Commands

There are several commands that can be invoked to perform the functions as listed below. These commands only operate when you have accessed the Installers Programming Mode. To invoke the command required, enter the corresponding numerical code followed by the **AWAY** button.

Command	Function
257	Random Select User Codes (Version 2 Onwards)
258	Enable and Disable Zone Status Mode
259	Test Programming Key
260	Exit Installer's Programming Mode
261	Reset Control Panel Back To Factory Default Settings
262	Copy The Panel Memory To The Programming Key
263	Copy The Programming Key Data To The Panel Memory
264	Erase Programming Key
265	Communications Monitor Mode (Version 1 Only)
265	Reserved (Version 2 Only)
265	Set Up Domestic Dialling Format (New - Version 3)
266	Enable and Disable Automatic Stepping Of Locations During Programming

Installers Programming Commands

Installer Code Functions - Version 2 Onwards

Installer Code Functions have been added to the Solution-8 control panel. These functions are designed to allow the installer to perform various system tests without the need to know a Master Code.

The **INSTALLER CODE** is entered followed by a **FUNCTION** digit then the **AWAY** button to enter you into a particular mode.

INSTALLER CODE +
 FUNCTION +
 AWAY

These functions can only be carried out when the control panel is disarmed.

Function	Description
0	Reserved
1	Request Print Out Of System Configuration
2	Set The First Test Report
3	Event Memory Recall Mode
4	Walk Test Mode
5	Satellite Siren Service Mode
6	Initiate A Modem Call
7	Turning Telephone Monitor Mode On and Off
8	Reserved
9	Send A Test Report

Installer Code Functions

Master Code Functions

Master Code Functions are designed to allow those users that have the appropriate access level to perform certain functions of a supervisory level. These functions can only be carried out when the system is disarmed.

MASTER CODE +
 FUNCTION +
 AWAY

<i>Function</i>	<i>Description</i>
0	Reserved
1	Changing and Deleting User Codes
2	Enable/Disable Day Alarm Operation (Version 1 Only)
2	Programming Domestic Phone Numbers (Version 2 Onwards)
3	Event Memory Recall Mode
4	Walk Test Mode
5	EDMSAT Satellite Siren Service Mode (Version 1 Only)
5	Turning Remote Output On and Off (Version 2 Onwards)
6	Initiate A Modem Call
7	Turning Remote Output On and Off (Version 1 Only)
7	Enable/Disable Day Alarm Operation (Version 2 Onwards)
8	Set The First Test Report Time (Version 1 Only)
8	Reserved
9	Initiate A Test Report

Master Code Functions

Special Code Functions - Version 2 Onwards

Special Code Functions have been incorporated to allow temporary staff or non-code users to initiate different functions as required. **SPECIAL CODE = 9999**

<i>Function</i>	<i>Description</i>
0	Reserved
1	Reserved
2	Reserved
3	Reserved
4	Reserved
5	Reserved
6	Initiate a Modem Call
7	Enable/Disable Day Alarm Operation (Version 3 Onwards)
8	Reserved
9	Initiate A Test Report

Special Code Functions

Location 000 - 015

Primary Telephone Number

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Location 016 - 031

Secondary Telephone Number

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Location 032 - 047

Callback Telephone Number

0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Location 048

Dialling Format

- | | |
|-------------------------------------|---------------------------------------|
| 1 = Australian DTMF | 4 = International DTMF |
| 2 = Australian Decadic | 5 = Reversed Decadic |
| 3 = Alternate DTMF & Decadic (AUST) | 6 = Alternate DTMF & Reversed Decadic |

2

Location 049

Handshake Tone

- | | |
|---------------------------------------|-----------------------------|
| 1 = HI-LO Handshake (High Speed DTMF) | 4 = No Handshake Required |
| 2 = 1400 Hz (Ademco TX @ 1900 Hz) | 5 = Pager (New - Version 2) |
| 3 = 2300 Hz (Sescoa TX @ 1800 Hz) | |

1

Location 050

Transmission Format

- | | |
|--|--|
| 1 = DTMF Expanded High Speed | 9 = 3 + 1 Pulsed Universal |
| 2 = DTMF Expanded High Speed With Checksum | 10 = 3 + 1 Pulsed Expanded |
| 3 = 4 + 2 DTMF | 11 = Domestic (New - Version 2) |
| 4 = 4 + 2 DTMF With Checksum | 12 = Basic Pager (New - Version 2) |
| 5 = 4 + 2 Pulsed | 13 = Advanced Pager (New - Version 2) |
| 6 = 4 + 2 Pulsed With Checksum | 14 = 4 + 2 Express (New - Version 2) |
| 7 = 4 + 1 Pulsed Universal | 15 = Synthesised Voice (New - Version 3) |
| 8 = 4 + 1 Pulsed Expanded | |

1

Location 051

Transmission Speed

- | | |
|------------------------|----------------------------|
| 1 = 1 Pulse / Second | 4 = 20 Pulses / Second |
| 2 = 10 Pulses / Second | 5 = 20 Pulses / Second FDL |
| 3 = 15 Pulses / Second | 6 = 40 Pulses / Second |

2

Location 052 - 055

Client Code

0 0 0 0

Location 056 - 061

Installer Code

1 2 3 4 0 0

Location 062 - 151

User Codes

(Master Code)

User Code 1

Location 062 - 067
2 5 8 0 0 0

User Code 2

Location 068 - 073
0 0 0 0 0 0

User Code 3

Location 074 - 079
0 0 0 0 0 0

User Code 4

Location 080 - 085
0 0 0 0 0 0

User Code 5

Location 086 - 091
0 0 0 0 0 0

User Code 6

Location 092 - 097
0 0 0 0 0 0

User Code 7

Location 098 - 103
0 0 0 0 0 0

User Code 8

Location 104 - 109
0 0 0 0 0 0

User Code 9

Location 110 - 115
0 0 0 0 0 0

User Code 10

Location 116 - 121
0 0 0 0 0 0

User Code 11

Location 122 - 127
0 0 0 0 0 0

User Code 12

Location 128 - 133
0 0 0 0 0 0

User Code 13

Location 134 - 139
0 0 0 0 0 0

User Code 14

Location 140 - 145
0 0 0 0 0 0

User Code 15

Location 146 - 151
0 0 0 0 0 0

Location 152 - 157

Auxiliary Code 1

0	0	0	0	0	0
---	---	---	---	---	---

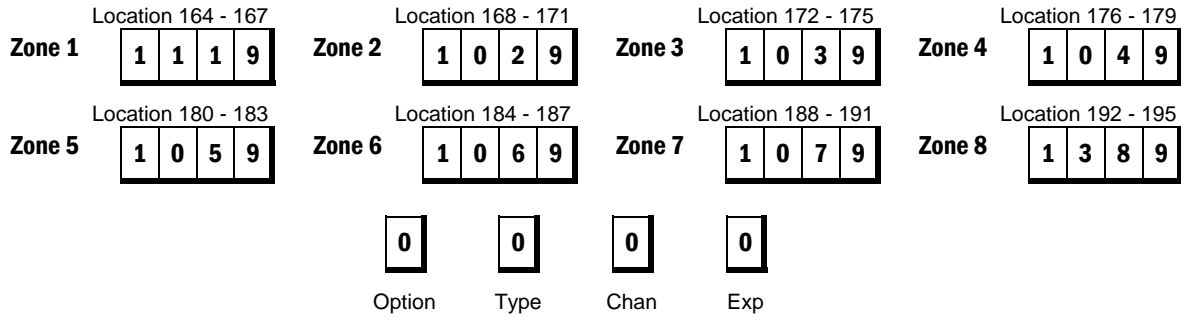
Location 158 - 163

Auxiliary Code 2

0	0	0	0	0	0
---	---	---	---	---	---

Location 164 - 195

Zone Configurations



Option	Type	Instant	Option	Type	Delay-2
1	0	Standard Instant	1	2	Standard Delay-2
2	0	Instant + Lockout Siren	2	2	Delay-2 + Lockout Siren
3	0	Instant + Lockout Dialler	3	2	Delay-2 + Lockout Dialler
4	0	Instant + Lockout Dialler + Lockout Siren	4	2	Delay-2 + Lockout Dialler + Lockout Siren
5	0	Instant + Silent	5	2	Delay-2 + Silent
6	0	Instant + Silent + Lockout Dialler	6	2	Delay-2 + Silent + Lockout Dialler
7	0	Instant + Isolated In HOME Mode	7	2	Delay-2 + Isolated In HOME Mode
8	0	Instant + Isolated In HOME Mode + Silent	8	2	Delay-2 + Isolated In HOME Mode + Silent
9	0	Instant + Isolated In HOME Mode + Silent + Lockout Dialler	9	2	Delay-2 + Isolated In HOME Mode + Silent + Lockout Dialler
10	0	Instant + Isolated In HOME Mode + Lockout Siren	10	2	Delay-2 + Isolated In HOME Mode + Lockout Siren
11	0	Instant + Isolated In HOME Mode + Lockout Dialler	11	2	Delay-2 + Isolated In HOME Mode + Lockout Dialler
12	0	Instant + Isolated In HOME Mode + Lockout Dialler + Lockout Siren	12	2	Delay-2 + Isolated In HOME Mode + Lockout Dialler + Lockout Siren

Option	Type	Delay-1	Option	Type	24 Hour
1	1	Standard Delay-1	1	3	Standard 24 Hour
2	1	Delay-1 + Lockout Siren	2	3	24 Hour + Lockout Siren
3	1	Delay-1 + Lockout Dialler	3	3	24 Hour + Lockout Dialler
4	1	Delay-1 + Lockout Dialler + Lockout Siren	4	3	24 Hour + Lockout Dialler + Lockout Siren
5	1	Delay-1 + Silent	5	3	24 Hour + Silent
6	1	Delay-1 + Silent + Lockout Dialler	6	3	24 Hour + Silent + Lockout Dialler
7	1	Delay-1 + Isolated In HOME Mode	7	3	24 Hour Fire
8	1	Delay-1 + Isolated In HOME Mode + Silent	8	3	24 Hour Fire + Lockout Siren
9	1	Delay-1 + Isolated In HOME Mode + Silent + Lockout Dialler	9	3	24 Hour Fire + Lockout Dialler
10	1	Delay-1 + Isolated In HOME Mode + Lockout Siren	10	3	24 Hour Fire + Lockout Dialler + Lockout Siren
11	1	Delay-1 + Isolated In HOME Mode + Lockout Dialler	Option	Type	Spare Zone
12	1	Delay-1 + Isolated In HOME Mode + Lockout Dialler + Lockout Siren	9	9	Not Used

Location 196 - 197

AC Fail Code

Location 196 Reporting Channel
 Location 197 Expansion Code

1 9

Location 198 - 199

Low Battery Code

Location 198 Reporting Channel
 Location 199 Expansion Code

2 9

Location 200 - 201

Open/Close Reports

Location 200 Reporting Channel
 Location 201 Expansion Code

8 9

Location 202 - Software Version 1

Spare

0

Location 202 - Software Version 2

Advanced Options

- 1 = Answering Machine Bypass
- 2 = Send Test Reports Only If Armed
- 4 = Illuminate All Indicators During Entry Time
- 8 = Handover Delay To All Instant Zones

0

Location 202 - Software Version 3

Advanced Options

- 1 = Open/Close Reports In HOME Mode
- 2 = Send Test Reports Only If Armed
- 4 = Illuminate All Indicators During Entry Time
- 8 = Handover Delay To All Instant Zones

0

Location 203

Event Restore

9

Location 204 - 205

Trouble

Location 198 Reporting Channel
Location 199 Expansion Code

9 9

Location 206 - 207

Bypass

Location 198 Reporting Channel
Location 199 Expansion Code

9 9

Location 208 - 209

Code Tamper

Location 198 Reporting Channel
Location 199 Expansion Code

9 9

Location 210

Code Retries

6

Location 211

Ring Count

15 = Answering Machine Bypass - Software Version 3 Only

10

Location 212 - 213

Panic

Location 198 Reporting Channel
Location 199 Expansion Code

2 9

Location 214

System Options 1

- 1 = Enable Six Digit Codes
- 2 = Enable Burglary Sound Two
- 4 = Zero Enter Allowed
- 8 = Entry Guard In HOME Mode

4

Location 215

System Options 2

- 1 = Enable Forced Arming
- 2 = Enable Audible Codepad Panic
- 4 = Enable Audible Codepad Tamper
- 8 = Codepad Extinguish Mode

7

Location 216 - 217

Console Duress

Location 198 Reporting Channel
Location 199 Expansion Code

1 9

Location 218

Dialler Options 1

- 1 = Disable Dialler
- 2 = Enable Smart Lockout
- 4 = Allow Horn Speaker Beeps
- 8 = 400 ms Zone Response Time

0

Location 219

Dialler Options 2

- 1 = Enable Keyswitch Interface or Night Arm Station
- 2 = Enable Upload/Download Via Alarm Link Software
- 4 = Enable Telephone Remote Arming
- 8 = Enable Single Event HI-Speed Reporting

2

Location 220 - 223

Test Reports

Location 220 Channel Number
Location 221 Expansion Code
Location 222 Increments In 1 Hour (0 - 15 Hours)
Location 223 Increments In 16 Hours (0 - 240 Hours)

9 9 0 0

Location 224 - 225

Exit Time

Location 224 Increments Of 1 Second (0 - 15 Sec's)
Location 225 Increments Of 16 Seconds (0 - 240 Sec's)

12 3

Location 226

Siren Run Time

10

Location 227

Day Alarm Mask

0

Location 228 - 229

Entry Timer 1

Location 228 Increments Of 1 Second (0 - 15 Sec's)
 Location 229 Increments Of 16 Seconds (0 - 240 Sec's)

10 0

Location 230 - 231

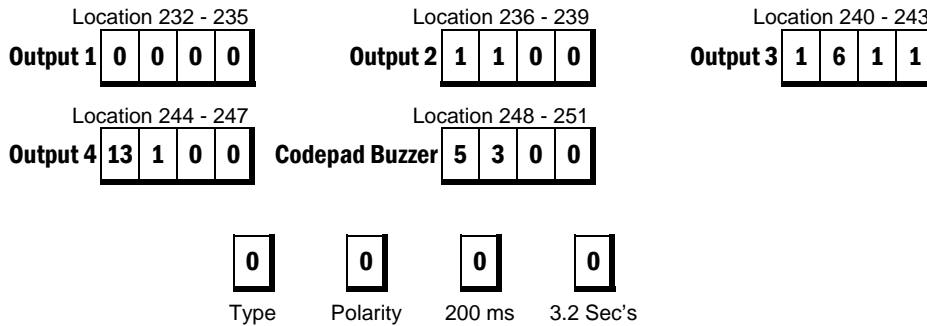
Entry Timer 2

Location 230 Increments Of 1 Second (0 - 15 Sec's)
 Location 231 Increments Of 16 Seconds (0 - 240 Sec's)

4 1

Location 232 - 251

Output Configurations



Output Type	Function	Output Type	Function
0	EDMSAT - OUTPUT 1	6	All Signals Transmitted OK (New - Version 2)
0	EDMSTU - OUTPUT 2 (New - Version 3)	7	Silent Alarm
0	Day Alarm - OUTPUT 3 (New - Version 3)	8	Auxiliary Output - Auxiliary Code 1
0	Entry Warning - OUTPUT 4 (New - Version 3)	9	Auxiliary Output - Auxiliary Code 2
0	Entry Warning - Codepad Buzzer (New - Version 3)	10	AC Fail
1	System Armed	11	Low Battery
2	System Armed In Home Mode	12	Zone Unsealed
3	Exit With All Zones Sealed Or Entry Warning	13	Codepad Panic (Version 1 Only)
4	Exit Warning	13	Fire Alarm (Version 2 Onwards)
5	Entry Warning (Version 1 Only)	14	Codepad Duress (Version 1 Only)
5	Entry Warning Or Day Alarm (Version 2 Onwards)	14	Codepad Panic/Duress (Version 2 Onwards)
6	Day Alarm (Version 1 Only)	15	Remote Control

Polarity	Description	Polarity	Description
0	Not Used	4	Normally Low - Pulsing Open
1	Normally Open Circuit - Going Low	5	Normally Open Circuit - One Show Low
2	Normally Low Circuit - Going Open	6	Normally Low Circuit - One Shot Open
3	Normally Open Circuit - Pulsing Low		

Location 252 - 253

Next Test Report Time

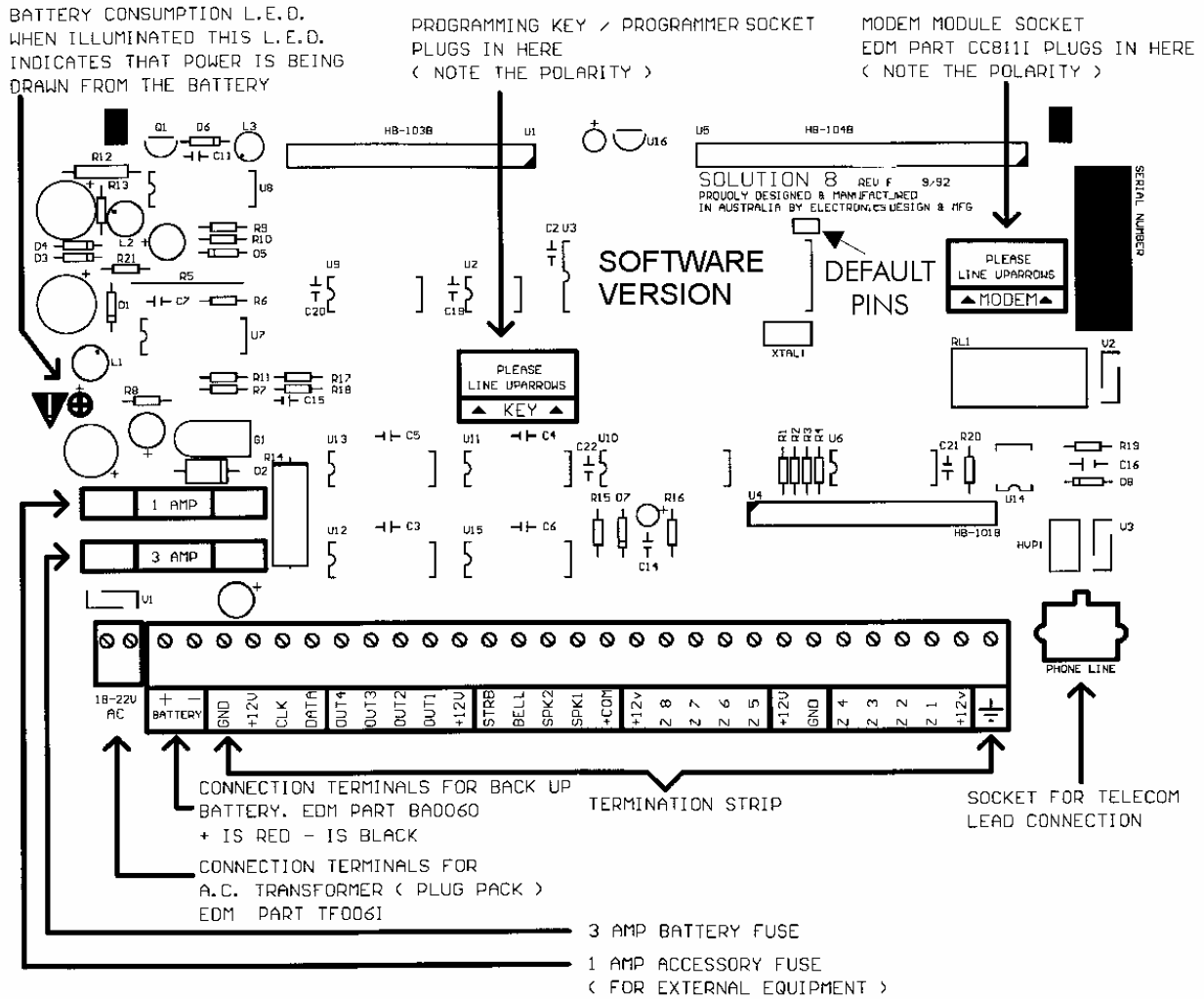
Location 252 Increments Of 1 Hours (0 - 15 Hours)
 Location 253 Increments Of 16 Hours (0 - 240 Hours)

0 0

How To Set The First Test Report For Software Version 1

1. Enter the Master Code followed by 8 and the AWAY button.
2. Enter the number of hours (1-255) to wait until the first test report is required.
3. Press the AWAY button to exit.

Solution-8 Component Overlay



Software Version Identification

The chip marked "Software Version" in the diagram above will indicate the control panel's software version.

- EDM008** = Software Version 1
- EDM008A** = Software Version 2
- EDM008A I3** = Software Version 3
- EDM008 ISSUE 3** = Software Version 3

Solution-8 Wiring Diagram

