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Veritas
Security Control Panel

INSTALLATION MANUAL

CE

READ INSTRUCTIONS BEFORE COMMENCING INSTALLATION

INS 034-7

Veritas

CONTENTS

***Please Print* - Only fully completed forms will be accepted**

First Name _____ Surname _____

COMPANY NAME _____

Address _____

_____

_____ POST CODE _____

Tel _____ Fax _____

Average number of systems installed each month? _____

Which of the Texecom products listed below do you currently use **(average quantity each month)**?

Reflex (PIR) _____ per month

Medusa (PIR) _____ per month

Mirage (Dual Technology Detector) _____ per month

Mirage ProQUAD (Quad Element Detector) _____ per month

Oracle Covert Camera _____ per month

Oracle Plus Covert Camera _____ per month

Oracle External Camera _____ per month

Veritas 8 (Control Panel) _____ per month

Veritas 8 Compact (Control Panel) _____ per month

Veritas R8 (Control Panel) _____ per month

Veritas R8 Plus (Control Panel) _____ per month

Veritas R8 Universal (Control Panel) _____ per month

Veritas R8 Digitas (Control Panel/Digicom) _____ per month

Veritas Extension Speaker _____ per month

Azura 360 (Integral Sounder/Strobe Unit) _____ per month

Impaq (Shock Sensor) _____ per month

Which other manufacturers and their products do you use?

_____

_____

Which distributor(s) do you buy from? _____

_____

Which trade magazine(s) do you read? _____

IS 034-7

Fax completed forms to 0161 881 5147 or send to the address overleaf

INSTALLATION DETAILS

(to be completed by the Engineer)

Installation Engineer: _____

Installation Company: _____

Address: _____

_____

_____

Telephone: _____

Installation Date: _____

ZONE	FULL SET ZONE TYPE	PART SET ZONE TYPE	AREA PROTECTED	LOOP RESISTANCE
1				
2				
3				
4				
5				
6				
7				
8				

THE INSTRUCTIONS MUST NOT BE STORED INSIDE THE CONTROL PANEL

MAINTENANCE & CALL-OUT RECORD

DATE/TIME	REASON FOR SITE VISIT	WORK CARRIED OUT	NAME OF ENGINEER

THE USER GUIDE CONTAINS ESSENTIAL SAFETY INFORMATION AND MUST BE PASSED ON TO THE USER

CONTENTS

FACTORY SETTINGS

Programming is usually unnecessary as the **factory settings**, listed below, have been carefully selected to suit most installations without alteration. However, all functions are fully programmable for **Complete Control**.

Factory Settings

User Code	4321
Engineer Code	1234
Part Set Suite	Zones 5, 6, 7 Omitted
Chime Suite	No Zones Included
Number of System Re-Arms	02
Full Set Exit Time	30 seconds
Part Set Exit Time	30 seconds
Full Set Entry Time	30 seconds
Part Set Entry Time	30 seconds
Bell Cut Off Time	20 minutes
Part Set Error Tone Suspension Time	10 seconds
Zone 1 Zone Type for Full Set	Entry/Exit (Zone Type 6)
Zone 2 Zone Type for Full Set	Inhibited Entry (Zone Type 2)
Zone 3 Zone Type for Full Set	Guard (Zone Type 3)
Zone 4 Zone Type for Full Set	Guard (Zone Type 3)
Zone 5 Zone Type for Full Set	Guard (Zone Type 3)
Zone 6 Zone Type for Full Set	Guard (Zone Type 3)
Zone 7 Zone Type for Full Set	Guard (Zone Type 3)
Zone 8 Zone Type for Full Set	Guard (Zone Type 3)
Zone 1 Zone Type for Part Set	Guard (Zone Type 3)
Zone 2 Zone Type for Part Set	Entry/Exit (Zone Type 6)
Zone 3 Zone Type for Part Set	Guard (Zone Type 3)
Zone 4 Zone Type for Part Set	Guard (Zone Type 3)
Zone 5 Zone Type for Part Set	Guard (Zone Type 3)
Zone 6 Zone Type for Part Set	Guard (Zone Type 3)
Zone 7 Zone Type for Part Set	Guard (Zone Type 3)
Zone 8 Zone Type for Part Set	Guard (Zone Type 3)
Miscellaneous Selections One:	
Internal Sounders only on Unset Tamper	On
Internal Sounders only on Part Set Alarm	Off
Internal Sounders only on Part Set Tamper	On
Silent Part Set	Off
High Level Chime	Off
Invert Bell Output	Off
Invert Communicator Outputs	Off (normally active low)
Unlock Engineer Code	On
Miscellaneous Selections Two:	
Engineer Reset	Off
Engineer Reset on Tamper	Off
Disable Ability to Omit Global System Tamper	Off
Keypad Tamper	Off

Number	Zone Type	Number	Zone Type
①	Entry/Exit with Final Door Set	⑤	Tamper
②	Inhibited Entry	⑥	Entry/Exit
③	Guard	⑦	Personal Attack (Panic)
④	Fire	⑧	Double Knock

NS 034-7

VERITAS CONTROL PANELS

Texecom's *Veritas* range of control panels provides a complete solution for any installation. A design philosophy of shared styling, common functionality and intuitive programming guarantees instant product familiarity.
The key features of the *Veritas* family are summarised as follows:

Veritas **Control Panels**	*Veritas 8*	*Veritas 8 Compact*	*Veritas R8 (UK)*	*Veritas R8 (Export)*	*Veritas R8 Plus*	*Veritas R8 Digitas*
8 Fully Programmable Zones + Global System Tamper	√	√	√	√	√	√
Built-in Keypad	√	√				
Remote Keypad included			√	√	√	√
Accepts up to 6 Remote Keypads	√	√	√	√	√	√
Power Supply with Integral Transformer	√	√	√	√	√	√
Accepts Battery up to 7.0Ah	√		√	√	√	√
Accepts Battery up to 2.1Ah		√				
Slim, Compact Design		√				
Separate Bell & Strobe Outputs	√	√	√	√	√	√
Adjustable Volume	√	√	√	√	√	√
Accepts Extension Speakers	√	√	√	√	√	√
Integral Speaker	√	√				
Extension Speaker included			√	√	√	√
Set Positive Output	√	√				
Programmable Switched Positive Output			√	√	√	√
Latching Shock Sensor Reset			√	√	√	√
8 Channel Communicator Interface				√	√	
Line Monitor					√	√
Anti-Code Reset					√	√
Remote Reset					√	
8 Channel Integrated Communicator Port (Fast Format, RX2000 Compatible)						√
Multiple Part Sets					√	√
Multiple Codes and Code Types					√	√
Keyswitch Option					√	√
Push to Set Facility					√	√
End of Line Technology (Balanced Zones)					√	
Sophisticated Service Timer (Millennium Compatible)					√	
Audio-Verification (A/V) Friendly					√	
Battery Test Facility					√	
Auto-Omit Option					√	
1.2mm Steel Enclosure Option			√	√	√	√

3.4 ELECTRICAL

Current Consumption: Quiescent current <50mA
Alarm current <150mA

SW +Ve Output: 0Vdc via 100Ω when low
13.7Vdc via 1kΩ when high

Positive Loop Thresholds: Minimum open resistance 70kΩ
(Zones 1-8) Maximum closed resistance 10kΩ

Negative Loop Threshold: Minimum open resistance 110kΩ
(Global System Tamper) Maximum closed resistance 20kΩ

Extension Speakers: Minimum load 4Ω

3.5 FUSES

A spare mains fuse is supplied in a clip adjacent to the mains terminal block.[7]
Spare PCB fuses are supplied in a press-seal bag.[7][8]

Mains 240VAC/220VAC: T100mA, 250V, 20mm[7]
Mains 120VAC/110VAC: T250mA, 250V, 20mm[7]

F1 (Battery Fuse): F1A, 250V, 20mm[7]
F2 (Bell/Strobe/Auxiliary Fuse): F1A, 250V, 20mm[7]
F3 (Auxiliary Fuse): F500mA, 250V, 20mm[7] }
F4 (RKP Auxiliary Fuse): F500mA, 250V, 20mm[7] } if fitted
F5 (Power Supply Output Fuse): F1A, 250V, 20mm[7] }

3.6 MISCELLANEOUS

Internal Speaker: Adjustable low level volume
(50mm, 16Ω) ≥ 90dB at 1m high level volume

Loop Response Time: Minimum 200ms
Maximum 800ms

Remote Keypads: Up to 6

Communicator Port (if fitted): 8 channel outputs (programmable polarity, Section 2.3.1)

3.7 EUROPEAN STANDARDS

Conforms to European Union (EU) Low Voltage Directive (LVD) 73/23/EEC (amended by 93/68/EEC) and Electro-Magnetic Compatibility (EMC) Directive 89/336/EEC (amended by 92/31/EEC and 93/68/EEC).
The CE mark indicates that this product complies with the European requirements for safety, health, environmental and customer protection.

Note:
1) Mains voltage is factory set and not adjustable - see label on transformer.
2) Removal of the transformer cover is prohibited and will invalidate the warranty.
3) Only use batteries of the specified type.
4) Dispose of used batteries safely according to the manufacturer's instructions.
5) Locate the battery inside the panel in the space provided.
6) This equipment is designed for dry indoor use only.
7) When replacing a fuse always observe the specified rating and type - failure to do so is dangerous and will invalidate the warranty.
8) The press-seal bag must NOT be stored inside the panel.

THE PROGRAMMING MENU

The control panel must be in unset mode in order to access the Programming Menu. **Enter the four digit Engineer code** (factory-set to ①②③④). **Enter** ⓪⓪. All the zone lights will illuminate. The various Programming Options are then selected by entering a two digit Option Code. Thereafter, the Programming Procedure depends upon the Programming Option selected as listed below:

Note: it is only necessary to enter your Engineer code followed by ⓪⓪ once, as on completion each Programming Option reverts to the Programming Menu, allowing a subsequent Programming Option to be accessed directly.

Programming Option	Option Code	Programming Procedure
Part Set Suite	⓪②	Select Zone Number(s) ① to ⑧ Press PROG
Miscellaneous Selections One (Section 2.3.1)	⓪③	Select/De-select Option Number(s) ① to ⑧ Press PROG
Number of System Re-Arms	⓪④	Enter Number of System Re-Arms ?? Press PROG
Test Sounders and Strobe	⓪⑤	Press ④③②① in turn Press RESET
Walk Test	⓪⑥	Conduct Walk Test Press RESET
Re-Load Factory Settings	⓪⑦	Press PROG
Program Engineer Code	⓪⑧	Enter New Code ???? Press PROG
Configure Remote Keypad(s)	⓪⑨	View Display Press RESET
Miscellaneous Selections Two (Section 2.3.2)	①⓪	Select/De-select Option Number(s) ① to ④ Press PROG
Zone 1 Zone Type for Full Set	①①	Select Zone Type ① to ⑧ Press PROG
Zone 2 Zone Type for Full Set	①②	Select Zone Type ① to ⑧ Press PROG
Zone 3 Zone Type for Full Set	①③	Select Zone Type ① to ⑧ Press PROG
Zone 4 Zone Type for Full Set	①④	Select Zone Type ① to ⑧ Press PROG
Zone 5 Zone Type for Full Set	①⑤	Select Zone Type ① to ⑧ Press PROG
Zone 6 Zone Type for Full Set	①⑥	Select Zone Type ① to ⑧ Press PROG
Zone 7 Zone Type for Full Set	①⑦	Select Zone Type ① to ⑧ Press PROG
Zone 8 Zone Type for Full Set	①⑧	Select Zone Type ① to ⑧ Press PROG
Zone 1 Zone Type for Part Set	②①	Select Zone Type ① to ⑧ Press PROG
Zone 2 Zone Type for Part Set	②②	Select Zone Type ① to ⑧ Press PROG
Zone 3 Zone Type for Part Set	②③	Select Zone Type ① to ⑧ Press PROG
Zone 4 Zone Type for Part Set	②④	Select Zone Type ① to ⑧ Press PROG
Zone 5 Zone Type for Part Set	②⑤	Select Zone Type ① to ⑧ Press PROG
Zone 6 Zone Type for Part Set	②⑥	Select Zone Type ① to ⑧ Press PROG
Zone 7 Zone Type for Part Set	②⑦	Select Zone Type ① to ⑧ Press PROG
Zone 8 Zone Type for Part Set	②⑧	Select Zone Type ① to ⑧ Press PROG
Full Set Exit Time (seconds)	③①	Enter Exit Time ?? Press PROG
Part Set Exit Time (seconds)	③②	Enter Exit Time ?? Press PROG
Full Set Entry Time (seconds)	③③	Enter Entry Time ?? Press PROG
Part Set Entry Time (seconds)	③④	Enter Entry Time ?? Press PROG
Bell Cut-Off Time (minutes)	③⑤	Enter Cut-Off Time ?? Press PROG
Part Set Error Tone Suspension Time (seconds)	③⑥	Enter Suspension Time ?? Press PROG

INS 034-7

THE PROGRAMMING MENU

Programming Option	Option Code	Programming Procedure
Log Event 1 (most recent)	④①	View Display Press (RESET)
Log Event 2	④②	View Display Press (RESET)
Log Event 3	④③	View Display Press (RESET)
Log Event 4	④④	View Display Press (RESET)
Log Event 5	④⑤	View Display Press (RESET)
Log Event 6	④⑥	View Display Press (RESET)
Log Event 7 (least recent)	④⑦	View Display Press (RESET)

Note:

1) Engineer access can only be gained while the system is unset.

2) To abort programming at any stage (and preserve the original settings) **press** (RESET). The system will revert to the Programming Menu.

3) To exit the Programming Menu **press** (RESET). The system will revert to unset.

4) Tamper is disabled when the Programming Menu is accessed via an engineer code.

5) To omit zones, set chime or change the User code refer to the User Guide.

6) The system programming is retained even in the event of complete power loss.

2.11 PROGRAMMING THE TIMES ③?

The system has the following six 'time delays' which are programmable:

Number	Time Delay
①	Full Set Exit Time (seconds)
②	Part Set Exit Time (seconds)
③	Full Set Entry Time (seconds)
④	Part Set Entry Time (seconds)
⑤	Bell Cut Off Time (minutes)
⑥	Part Set Error Tone Suspension Time (seconds)

To program any of the above 'time delays', from the Programming Menu, **press ③ followed by the corresponding time delay number** (e.g. for the Part Set Entry Time, **enter** ③④). All the zone lights will turn off. **Enter the desired time as a two digit number** (e.g. for five seconds, **enter** ⓪⑤). Zone 1 light will illuminate when the first digit is entered. Zone 2 light will illuminate when the second digit is entered. **Press** (PROG). The system will chime to confirm the new time has been accepted. The system will then automatically revert to the Programming Menu and all the zone lights will illuminate.

Note:

The Part Set Error Tone Suspension Time ⑥ would typically be used to suspend the error tone (indicating an open zone) to avoid disturbance when there are detectors on the part set exit route.

2.12 DISPLAYING THE LOG EVENTS ④?

The control panel is capable of recalling the last seven alarm activations. From the Programming Menu, **press ④ followed by the number corresponding to the desired event,** 1 being most recent, 7 being least recent (e.g. to recall the second most recent event, **enter** ④②). The zone light of the zone which first caused the alarm activation will flash, and the zone lights of all subsequently opened zones (if any), will illuminate.

Press (RESET). The system will return to the Programming Menu and all the zone lights will illuminate.

3. Technical Specification

3.1 POWER SUPPLY

Mains Supply Voltage Rating:	240VAC/220VAC/120VAC/110VAC (+6% –10%)[1][2]
Total Current Output Rating:	1ADC at 240VAC/220VAC/120VAC/110VAC
Regulation:	<8%
Ripple:	<200mVRMS
Battery Recharge Voltage:	13.7 ± 0.1VDC
Rechargeable Battery Type:	12V Sealed lead acid gel type[3][4]
Rechargeable Battery Capacity:	1.2 to 7.0Ah[5] } *Veritas 8 &*
Dimensions:	282mm x 225mm x 80mm} *Veritas R8*
Rechargeable Battery Capacity:	1.2 to 2.1Ah[5] } *Veritas 8*
Dimensions:	246mm x 185mm x 55mm} *Compact*

3.2 PHYSICAL

Operating Temperature:	–10°C (14°F) to 50°C (122°F)
Storage Temperature:	–20°C (–4°F) to 60°C (140°F)
Maximum Humidity:	95% non-condensing[6]

3.3 ENVIRONMENTAL

NS 034-7

2.10.3 DESCRIPTION OF ZONE TYPES

The response of the control panel on detecting a zone activation will depend upon the zone type programmed for that zone. These are listed below:

2.10.3.1 ENTRY/EXIT WITH FINAL DOOR SET ❶

Final Door Set is sometimes referred to as 'quick set'. Opening a zone with this zone type when the system is set will cause the control panel to start entry mode. Closing a zone with this type during exit mode will cause the exit time to be reduced to 3 seconds. This zone type would typically be used for a front door magnetic contact.

2.10.3.2 INHIBITED ENTRY ❷

Inhibited Entry is sometimes referred to as 'intermediate entry' or 'walk through'. Opening a zone with this zone type when the panel is set will cause an alarm. During entry mode, activations of a zone with this zone type are disregarded. This zone type would typically be used for a hall PIR where there is a magnetic contact on the front door.

2.10.3.3 GUARD ❸

Guard zones are sometimes referred to as 'intruder' zones. Opening a zone with this zone type when the system is set will cause an alarm. When the control panel is unset, Guard zones are ignored. In a typical system most zones would have this zone type.

2.10.3.4 FIRE ❹

This zone type is designed specifically for smoke detectors. Zones with this zone type are monitored constantly even when the panel is unset. If activated they will cause a unique alarm with a distinctive 'fire' tone on the internal speaker. In addition, the external sounder will be pulsed rather than sounding continuously in contrast to a normal alarm. **Ensure that this zone type is not omitted in part set.**

2.10.3.5 TAMPER ❺

Zones with this zone type are monitored constantly even when the panel is unset. If activated they will cause an immediate alarm. The Global System Tamper zone is factory-set to this zone type. **Ensure that this zone type is not omitted in part set.**

Note:
1) Programming options allow the Tamper alarm response to be limited to the internal sounder if the system is unset or part set (see Section 2.3.1).
2) If only four of the eight zones are required, by programming the other four as Tamper zones, it is possible to have a separate 24 hour loop for each zone.

2.10.3.6 ENTRY/EXIT ❻

Opening a zone with this zone type when the system is set will cause the control pan to start entry mode. This zone type would typically be used for a hall PIR if a front door magnetic contact is not fitted.

2.10.3.7 PERSONAL ATTACK ❼

This zone type is designed specifically for panic buttons. Zones with this zone type are monitored constantly even when the panel is unset. If activated, they will cause an immediate alarm, sounding both the internal and external sounders. **Ensure that this zone type is not omitted in part set.**

2.10.3.8 DOUBLE KNOCK ❽

This zone type is designed to be used instead of a Guard zone when maximum false alarm protection is required. When the system is set, a zone with with this type must be activated twice within 10 seconds in order to cause an alarm.

Note:
The zone must open AND close, then open again, to cause an alarm.

1. Installation

1.1 INTRODUCTION TO THE CONTROL PANEL

The control panel is designed to maximise user friendliness for both the installer and the user. Programming is usually unnecessary as the **factory settings (see inside front cover)** have been carefully selected to suit most installations. However, all functions are fully programmable for **Complete Control.**

All programming is stored in a Non Volatile Memory (NVM) and thus all information is retained even in the event of a complete loss of power. The control panel includes eight fully programmable zones plus global system tamper. All zones are capable of operation with both normally open and normally closed detectors.

Note:
Links are fitted across each of the eight zones, global system tamper and bell tamper to simulate closed circuits. The links are removed during installation as each zone is connected. Links must never be fitted where no link is illustrated on the PCB. Most detectors have normally closed contacts which should be wired in series. Normally open detectors (e.g. pressure mats) can also be used but should be wired between a zone and the global system tamper.

1.2 TESTING THE CONTROL PANEL (PRE-INSTALLATION)

Follow the procedure below to test the control panel before installation:

- Remove the screw covers by inserting a screwdriver into the screw cover slot and turning anti-clockwise whilst applying pressure outwards.
- Unscrew the lid screws and remove the lid. If necessary connect the remote keypad as described in the RKP instructions.
- Connect the black battery lead to the negative (–) terminal of the standby battery and the red battery lead to the positive (+) terminal of the standby battery. All the indicator lights will come on. After five seconds the zone lights will turn off and the entry tone will start.
- **Enter the factory-set User code** ④③②①. The entry tone will stop.
- **Enter the factory-set Engineer code** ①②③④ **and press** ⓪⓪. All the zone lights will illuminate.
- **Enter** ⓪⑥. Hold down the tamper spring. All the zone lights will turn off and the control panel will sound the exit tone.
- Remove and replace each zone link in turn. When a link is removed, the corresponding zone light will illuminate. In addition, the panel will sound a repeating series of bleeps corresponding to the zone number (i.e. Zone 1 bleeps once, Zone 2 bleeps twice, etc.).
- After testing all the zones disconnect the battery.

INS 034-7

1.3 MOUNTING THE CONTROL PANEL

Mount the control panel on a flat, plumb wall using at least three appropriate screws. The rear casing has been designed with a central key-hole slot so that mounting is possible without removing the Printed Circuit Board (PCB). The angled slot in the lower corner has been provided to allow the panel to be levelled easily. If the PCB has to be removed, carefully pull back the two front PCB securing clips, lift the front of the PCB and slide it downward. To replace the PCB simply reverse the above procedure.

Note:
1) It is essential to ensure that none of the fixing slots or cable entries are accessible after fixing.
2) Mains cabling must be secured (e.g. with a cable tie) to one of the anchor points provided.

1.4 WIRING THE CONTROL PANEL

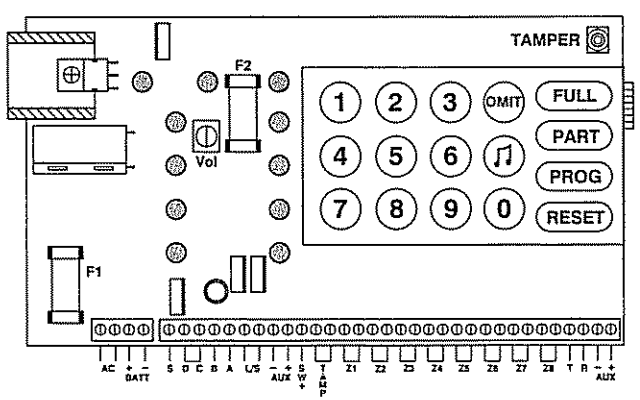
WARNING: ELECTRICITY CAN KILL
BEFORE connecting the control panel
ALWAYS disconnect the supply at the consumer unit.
If in ANY doubt consult a qualified electrician.

Note:
1) ALWAYS refer to National Wiring Regulations when conducting installation.
2) An appropriate and readily accessible disconnection device (e.g. an unswitched fused spur) MUST be provided as part of the installation.
3) The disconnection device must NOT be fitted in a flexible cord.
4) Where identification of the neutral in the mains supply is NOT possible a two-pole disconnection device MUST be used.
5) The building mains supply MUST incorporate appropriate short-circuit backup protection (e.g. a fuse or circuit breaker) of High Breaking Capacity (HBC, at least 1500A).
6) ONLY connect the mains supply to the mains terminal block, NEVER connect the mains supply directly to the PCB.

1.4.1 *VERITAS* PCB LAYOUTS

Figure 1. *Veritas* PCB Layouts

Fig. 1a. *Veritas 8* PCB Layout



2.10 PROGRAMMING THE ZONE TYPES

The response of the control panel on detecting a zone activation will depend upon the zone type programmed for that zone. There are eight different zone types:

Number	Zone Type
①	Entry/Exit with Final Door Set
②	Inhibited Entry
③	Guard
④	Fire
⑤	Tamper
⑥	Entry/Exit
⑦	Personal Attack (Panic)
⑧	Double Knock

Each zone may be programmed with a separate zone type in full and part set. Alternatively, each zone may be programmed with the same zone type in full and part set.

2.10.1 FULL SET ZONE TYPE ①?

To program the zone type of any individual zone in full set **press ① followed by the zone number.** The zone light of the zone type currently selected will illuminate. **Press the number of the zone type required. Press** (PROG). The system will chime to confirm the new zone type has been accepted. The system will then automatically revert to the Programming Menu and all the zone lights will illuminate.

For example, to program Zone 7 in full set as a Guard zone, **enter** ①⑦.
Press ③. **Press** (PROG).

① **Full Set**
⑦ **Zone 7**
③ **Guard**
(PROG)

2.10.2 PART SET ZONE TYPE ②?

To program the zone type of any individual zone in part set, **press ② followed by the zone number.** The zone light of the zone type currently selected will illuminate. **Press the number of the zone type required. Press** (PROG). The system will chime to confirm the new zone type has been accepted. The system will then automatically revert to the Programming Menu and all the zone lights will illuminate.

For example, to program Zone 3 in part set as an Entry/Exit zone, **enter** ②③.
Press ⑥. **Press** (PROG).

② **Part Set**
③ **Zone 3**
⑥ **Entry/Exit**
(PROG)

Note:
If a 24 hour zone type (i.e. Fire, Panic or Tamper) is programmed for a zone in full set, it will automatically be programmed for the same zone in part set and vice versa.

AND STROBE 0 5

Press (4) to turn on the internal sounder at high level (alarm level).
Press (3) to turn on the internal sounder at low level (entry/exit level).
Press (2) to turn on the strobe.
Press (1) to turn on the external sounder.
Press (0) to turn off all of the above.

Note:
The zone light corresponding to the number pressed will illuminate.

Press (RESET) to return to the Programming Menu. All the zone lights will illuminate.

2.6 WALK TESTING 0 6

From the Programming Menu, **enter** (0)(6). Initially all the zone lights will turn off and the control panel will sound the exit tone. When any zone is opened, the corresponding zone light will illuminate. The control panel will, in addition, sound a repeating series of bleeps corresponding to the open zone number (i.e. Zone 1 bleeps once, Zone 2 bleeps twice, etc.). If more than one zone is open, the bleeps will correspond to the highest zone number (e.g. if Zone 2 and Zone 6 are open, the control panel will bleep 6 times).

Conduct a walk test by triggering each of the system's detection devices in turn and check that the control panel registers the corresponding zone as open.

To terminate walk test **press** (RESET). The system will return to the Programming Menu and all the zone lights will illuminate.

2.7 RE-LOADING THE FACTORY SETTINGS 0 7

From the Programming Menu, **enter** (0)(7). All the zone lights will turn off. **Press** (PROG). The system will chime to confirm that the factory settings have been re-loaded into the Non Volatile Memory. The system will then automatically revert to the Programming Menu and all the zone lights will illuminate.

If the Engineer code has been lost, provided it has not been locked (Section 2.3.1) **power down the system** (mains and battery). **Restore power.** All the indicator lights will illuminate for five seconds. **Press** (RESET) **before the indicator lights turn off.** The factory settings have now been re-loaded into the Non Volatile Memory.

Note:
1) Unlocking a locked Engineer code that has been lost is subject to a minimum charge.
2) Re-loading factory settings will clear the event log.

2.8 PROGRAMMING THE ENGINEER CODE 0 8

From the Programming Menu, **enter** (0)(8). All the zone lights will turn off. **Enter your new four digit code.** Zone lights 1, 2, 3 and 4 will illuminate in turn as each digit of the new code is entered. **Press** (PROG). The system will chime to confirm the new code has been accepted. The system will then automatically revert to the Programming Menu and all the zone lights will illuminate.

2.9 CONFIGURING THE REMOTE KEYPAD(S) 0 9

From the Programming Menu, **enter** (0)(9). Initially all the zone lights will turn off. The control panel will scan for remote keypad addresses 1 to 6. As each remote keypad is detected the control panel will configure it as present and illuminate the zone light corresponding to its address. When configuring is complete, **press** (RESET). The system will then automatically revert to the Programming Menu and all the zone lights will illuminate.

Note:
1) ALWAYS power down the control panel when wiring a remote keypad
2) Setting the address of a remote keypad is described in the remote keypad instructions.
3) NEVER set two remote keypads to the same address.

Fig. 1b. ***Veritas 8 Compact*** **PCB Layout**

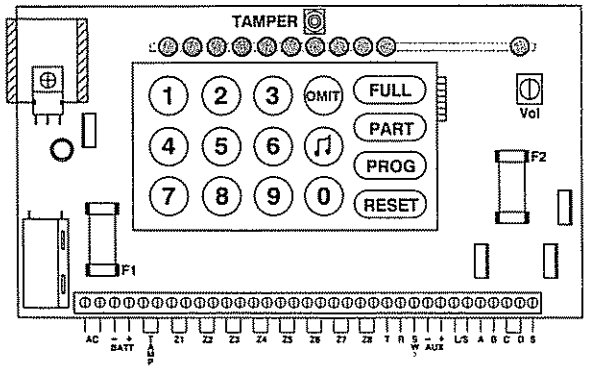
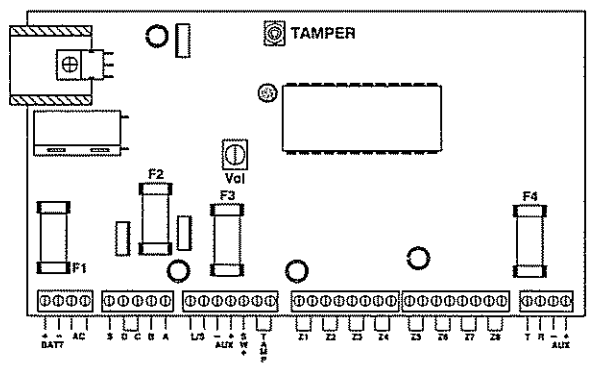


Fig. 1c. ***Veritas R8*** **PCB Layout**



1.4.1.1 PCB TERMINALS AND FUSES

AC (2)	Transformer AC in (NOT for mains supply)
BATT-	Standby battery negative
BATT+	Standby battery positive
S	SAB strobe switched negative
D	SAB negative supply
C	SAB negative tamper return
B	SAB bell switched negative
A	SAB positive supply
L/S (2)	Loudspeaker
AUX-	Auxiliary supply negative
AUX+	Auxiliary supply positive
SW+	Set positive output
TAMP	Negative tamper loop
Z1 - Z8	Positive zone loops
T	Keypad data
R	Keypad data
AUX- (if fitted)	Auxiliary supply negative (use for RKP)
AUX+ (if fitted)	Auxiliary supply positive (use for RKP)
1-8 (if fitted)	Channel outputs (programmable polarity Section 2.3.1)

A spare mains fuse is supplied in a clip adjacent to the mains terminal block.(1) Spare PCB fuse(s) are supplied in a press-seal bag.(1)(2)

INS 034-7

F1 Battery fuse (F1A, 250V, 20mm)[1]
F2 Bell/Strobe/Auxiliary fuse (F1A, 250V, 20mm)[1]
F3 (if fitted) Auxiliary fuse (F500mA, 250V, 20mm)[1]
F4 (if fitted) RKP Auxiliary fuse (F500mA, 250V, 20mm)[1]
F5 (if fitted) Power Supply Output fuse (F1A, 250V, 20mm)[1]

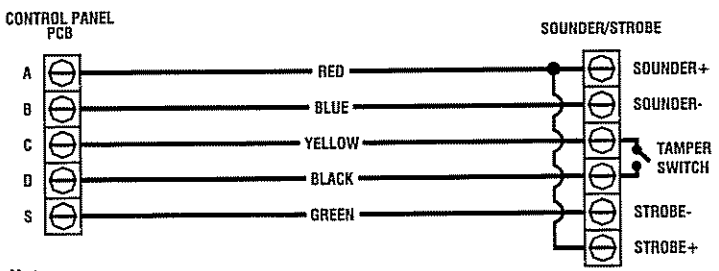
Note:
1) When replacing a fuse always observe the specified rating and type - failure to do so is dangerous and will invalidate the warranty.
2) The press-seal bag must NOT be stored inside the panel.

1.4.2 WIRING THE EXTERNAL SOUNDER AND STROBE

Always consult the manufacturer's connection instructions. The external sounder and strobe are connected to the five terminals labelled SAB on the control panel as follows:

A Permanent Positive Supply (+12V)
B Switched Negative to Activate Sounder
C Negative Tamper Return
D Permanent Negative Supply (0V)
S Switched Negative to Activate Strobe

Figure 2. Typical SAB Connections



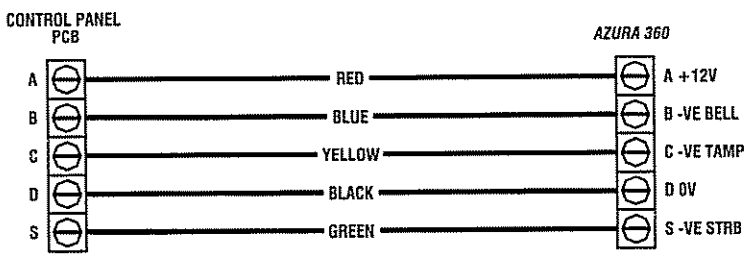
Note:
1) A self-activating bell/sounder (SAB) has a built in battery. After connecting this battery it will usually sound until its cover is fitted and it is supplied with power from the control panel.
2) Terminal B may be programmed as switched negative removed rather than switched negative applied to activate sounder (Section 2.3.1). This is useful for SCBs where B would then be used to provide the permanent negative supply.
3) If the strobe is a separate unit take the strobe positive supply from 'A' as well.

1.4.2.1 POPULAR SAB WIRING DIAGRAMS

The following diagrams illustrate how to connect the control panel to the most popular makes of SAB:

Figure 3. Common SAB Connections

Fig. 3a. Texecom *Azura 360*



2.3.2 MISCELLANEOUS SELECTIONS TWO ①⓪

Option 1 Internal sounders only on tamper alarm when the system is unset.
Option 2 Internal sounders only on any alarm when the system is part set.
Option 3 Internal sounders only on tamper alarm when the system is part set.
Option 4 Silent Part Set (no exit tone on part set).
Option 5 High Level Chime (chime at full volume).
Option 6 Invert Bell Output (negative removed instead of negative applied, useful for SCBs).
Option 7 Invert communicator o/ps (off = active low, on = active high).
Option 8 Unlock Engineer Code (re-loading factory settings restores default Engineer code).

Note:
1) When the zone light for Option 8 is on the Engineer codes are unlocked. Re-loading the factory settings will restore the default Engineer codes (e.g. if the Engineer code is changed to ⑦⑧⑨⓪ then when the factory settings are re-loaded it will revert back to ①②③④.

2) When the zone light for Option 8 is off the Engineer codes are locked. Re-loading the factory settings will not restore the default Engineer codes (e.g. if the Engineer code is changed to ⑦⑧⑨⓪ then when the factory settings are re-loaded, it will remain as ⑦⑧⑨⓪.

3) Unlocking a locked Engineer code that has been lost is subject to a minimum charge.

From the Programming Menu, **enter** ①⓪. The zone lights of the options currently selected will illuminate. **Press the appropriate numbered button(s) to select or deselect the corresponding option(s) as shown on the display. Press** PROG. The system will chime to confirm the new options have been accepted. The system will then automatically revert to the Programming Menu and all the zone lights will illuminate.

Option 1 Engineer Reset (Engineer code required to reset the panel after any alarm).
Option 2 Engineer Reset on Tamper (Engineer code required to reset the panel after tamper alarm).
Option 3 Disable user ability to omit Global System Tamper zone.
Option 4 Keypad Tamper (tamper alarm after 20 invalid key presses when unset).

Note:
When Engineer Reset is selected the user can still silence the alarm and cancel the strobe but cannot reset the system.

2.4 PROGRAMMING THE NUMBER OF SYSTEM RE-ARMS ⓪④

From the Programming Menu, **enter** ⓪④. All the zone lights will turn off. **Enter the desired number of system Re-Arms as a two digit number** (e.g. for three Re-Arms, **enter** ⓪③). Zone 1 light will illuminate when the first digit is entered. Zone 2 light will illuminate when the second digit is entered. **Press** PROG. The control panel will chime to confirm that the new number of Re-Arms has been accepted. The system will then automatically revert to the Programming Menu and all the zone lights will illuminate.

Note:
The total number of Activations will always be one more than the total number of Re-Arms.

2. Programming

2.1 THE PROGRAMMING MENU

The control panel must be in unset mode in order to access the Programming Menu. **Enter your four digit Engineer code** (factory-set to ①②③④). **Press** ⓪⓪. All the zone lights will illuminate. The various Programming Selections are then chosen by entering a two digit Option Code. The Programming Procedure (listed on the inside front cover) then depends upon the Programming Option selected as detailed in the following sections.

It is only necessary to enter your four digit Engineer code followed by ⓪⓪ once, as on completion, each Programming Option reverts to the Programming Menu, allowing a subsequent Programming Option to be accessed directly.

Note:

1) Engineer access can only be gained when the systems unset.
2) To abort programming at any stage (and preserve the original settings) **press** (RESET). The system will revert to the Programming Menu.
3) To exit the Programming Menu, **press** (RESET). The system will revert to unset.
4) Tamper is disabled when the Programming Menu is accessed via an engineer code.
5) To omit zones, set chime or change the User code, refer to the User Guide.
6) The system programming is retained even in the event of complete power loss.

2.2 PROGRAMMING THE PART SET SUITE ⓪②

From the Programming Menu, **enter** ⓪②. The zone lights of the zones currently active in part set will illuminate (the zone lights of the omitted zones will remain off). **Press the appropriate numbered button(s) of the zone(s) to be included or excluded (omitted). Press** (PROG). The system will chime to confirm that the new part set suite has been accepted. The system will then automatically revert to the Programming Menu and all the zone lights will illuminate.

Note:

1) A part set suite defines the zones that will be automatically included and excluded (omitted) when the system is part set.
2) Ensure that the Fire, Panic and Tamper zones are not omitted during part set as this will render them inactive even when unset. The zones will not be rendered active again until the next full set.

2.3 PROGRAMMING THE MISCELLANEOUS SELECTIONS

There are two sets of Miscellaneous Selections which control the behaviour of various system functions

2.3.1 PROGRAMMING THE MISCELLANEOUS SELECTIONS ONE ⓪③

From the Programming Menu, **enter** ⓪③. The zone lights of the options currently selected will illuminate. **Press the appropriate numbered button(s) to select or deselect the corresponding option(s) as shown on the display. Press** (PROG). The system will then automatically revert to the Programming Menu and all the zone lights will illuminate.

Fig. 3b. M.A.S Modular 3

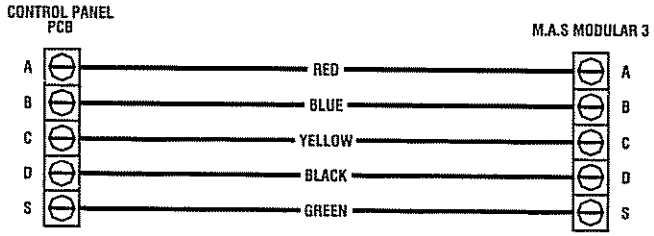


Fig. 3c. Citadel Defender

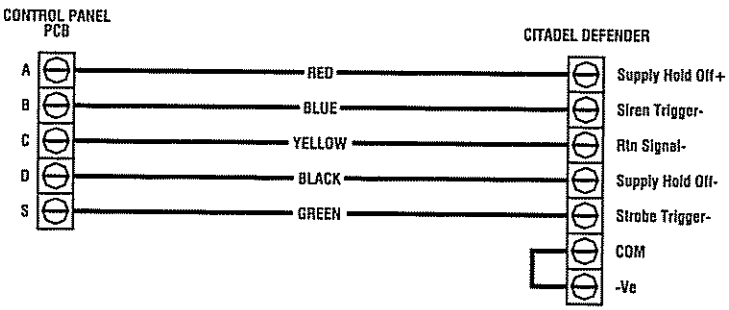


Fig. 3d. Flashguard

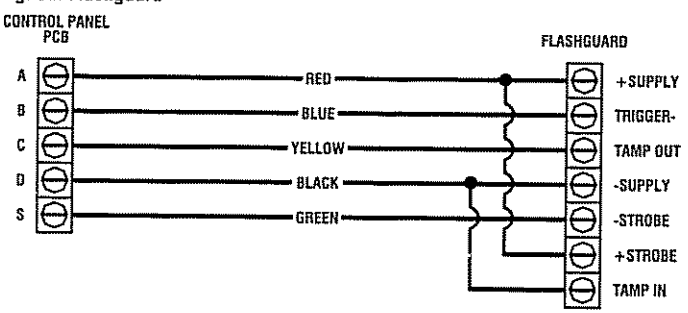


Fig. 3e. Novagard 2

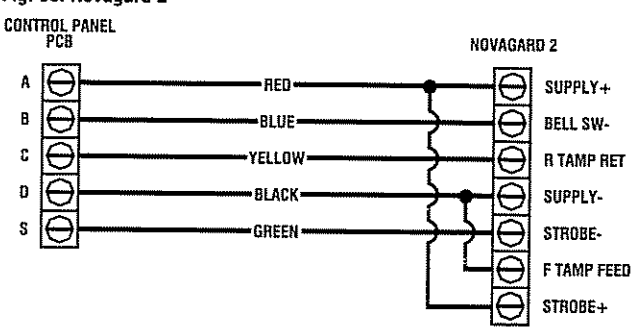


Fig. 3f. Activeguard AU101

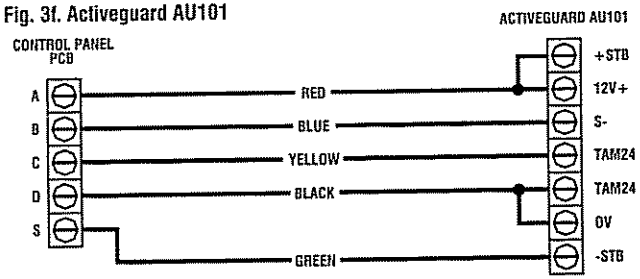
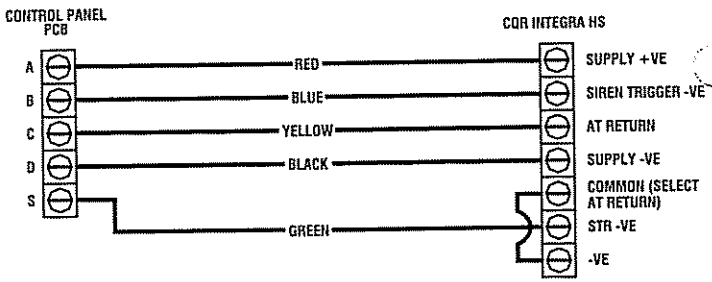


Fig. 3g. CQR Integra HS



1.4.3 MAGNETIC CONTACTS AND PANIC BUTTONS

These are connected to one of the eight terminal pairs labelled Z1 to Z8 on the control panel.

Figure 4. Wiring Magnetic Contacts

Fig. 4a. Wiring a Single Magnetic Contact to a Zone

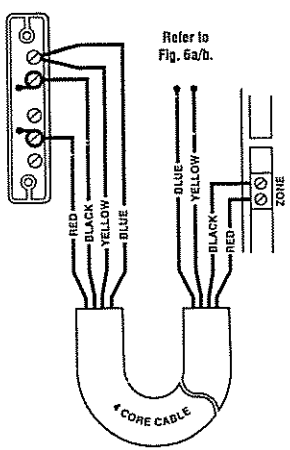
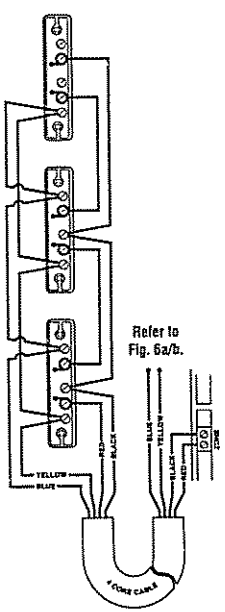


Fig. 4b. Wiring Multiple Magnetic Contacts to a Zone



Note:
Mixing powered detectors and magnetic contacts on one zone is easiest if the wiring is taken from the control panel to the powered detectors first.

1.7.7 UNIT WILL NOT SET AND BLEEPS BETWEEN 1 & 8 TIMES

The system has one or more zone faults and the corresponding zone light(s) will be on.

- Ensure that the zone is closed (doors shut, no movement in PIR detection area).
- Check the zone wiring and ensure all connections are secure.

1.7.8 UNIT GOES INTO FALSE ALARM

- Check that the terminal screws are fully down on all terminals **but do not over tighten.**
- If you have a meter use it to check the loop resistance (wires that run under carpets are easily damaged).

1.7.9 UNIT MAKES NO SOUND

- Check that the variable resistor (pot) on the PCB which controls the volume of low level tones is NOT turned fully clockwise. The volume increases as the pot is turned anti-clockwise.
- Check the auxiliary fuse (F3 if fitted, else F2) and replace if blown. (When replacing a fuse always observe the specified rating and type - failure to do so is dangerous and will invalidate the warranty).
- Check the speaker connections to the L/S terminals on the PCB.

1.7.10 THE EXTERNAL SOUNDER OR STROBE DOES NOT WORK

- Check wiring connections by referring to the diagrams in Section 1.4.2.1.
- Check the bell/strobe fuse F2 and replace if blown. (When replacing a fuse always observe the specified rating and type - failure to do so is dangerous and will invalidate the warranty).
- To check the external sounder make a temporary connection between B and D.
- To check the strobe make a temporary connection between S and D.

1.7.11 THE PANIC BUTTON DOES NOT WORK

- Check that the zone type for the zone to which the panic button is connected is programmed to PA (Section 2.10).
- Check that the zone to which the panic button is connected is not omitted in part set.
- If the tamper fault still persists then it is due to the system tamper. Remove the system tamper link and the tamper fault will reappear - check the system tamper wiring and the lid tamper on all detectors.
- **Remove ALL temporary links.**
- To set the system with a tamper fault use the following procedure:
  Enter the User code. Press (FULL) **or** (PART). The system will sound a repeating series of 9 bleeps. **Press** (OMIT). The display will illuminate the zones that are about to be armed. **Press** (9). The Tamper light will turn off. **Press** (PROG). The exit tone and exit timer will start.
- To prevent repeated false alarms due to an intermittent tamper fault when the system is unset, omit the Tamper zone as described above, then abort the setting procedure by re-entering the User code.
- To prevent the Global System Tamper zone from being omitted see Section 2.3.2.

1.7 TROUBLE SHOOTING

ALWAYS ensure the mains is off BEFORE removing the front cover.

1.7.1 NO POWER TO THE UNIT (MAINS ONLY)

- Check the mains block fuse and replace if blown. (When replacing a fuse always observe the specified rating and type - failure to do so is dangerous and will invalidate the warranty).
- Check for any loose wires at the mains block, the transformer and the AC terminals on the PCB.
- Check the mains block is connected correctly; live to live (brown), neutral to neutral (blue).

1.7.2 NO POWER TO THE UNIT (BATTERY ONLY)

- Check the battery fuse F1 and replace if blown. (When replacing a fuse always observe the specified rating and type - failure to do so is dangerous and will invalidate the warranty).
- Check for any loose wires at the BATT terminals on the PCB.
- Check that the battery wires are connected correctly; red to battery positive (+) to BATT+, black to battery negative (-) to BATT-.

1.7.3 NO POWER TO THE UNIT (MAINS & BATTERY)

- Disconnect all wires from the control panel SAB A and AUX+ terminals.
- Check that links are only fitted in the correct places (where illustrated on the PCB).
- Check there are no wires shorting to the underside of the PCB.
- Repeated blowing of the battery fuse F1 may indicate a faulty battery. (When replacing a fuse always observe the specified rating and type - failure to do so is dangerous and will invalidate the warranty).

1.7.4 UNIT DOES NOT ACCEPT CODE

- After initial power up wait until the tone starts before entering your code.
- If using more than one RKP, check that each RKP has a different address.
- If using one or more RKPs, check that they are wired correctly.
- If the remote keypad was connected after the control panel was powered up, disconnect all power momentarily and reconnect. This automatically configures all remote keypads on the system (Section 2.8).
- Check you are using the correct codes. Factory-set Engineer code is ①②③④. Factory-set User code is ④③②①.
- If using one or more RKPs on battery only, try using mains only instead as the battery may be flat.
- Check that the codes have not been changed. If the codes have been lost see Section 2.7 of the Installation Manual.
- Check that the membrane keypad tail is all the way home in its connector on the PCB.

1.7.5 UNIT WILL NOT SET AND BLEEPS 10 TIMES

The mains is off and the Power light on the panel will be flashing:

- The procedure for setting the system in the event of a mains failure is described in the User Guide.

1.7.6 UNIT WILL NOT SET AND BLEEPS 9 TIMES

The system has a tamper fault and the Tamper light will be on.

- It is first necessary to identify the cause, which may be either the lid tamper on the panel or the remote keypad(s), the bell box tamper or the global system tamper.
- Temporarily replace the bell tamper link (C, D) and the system tamper link (Tamp). If the tamper fault persists then it is due to a lid tamper - try stretching the springs and ensure all connections are secure.
- If the tamper fault clears then remove the bell tamper link. If the tamper fault now re-appears then it is due to the bell tamper - check the bell wiring, the bell lid and/or screw tamper, and the bell wall tamper (if fitted).

1.4.4 POWERED DETECTORS

Always consult the manufacturer's connection instructions. Powered detectors are connected to one of the eight terminal pairs labelled Z1 to Z8 on the control panel and are powered from the two terminals labelled AUX on the control panel as follows:

AUX+	Positive Supply (+12V)	White
AUX -	Negative Supply (0V)	Green

Figure 5. Wiring Powered Detectors

Fig. 5a. Wiring a Single Powered Detector to a Zone

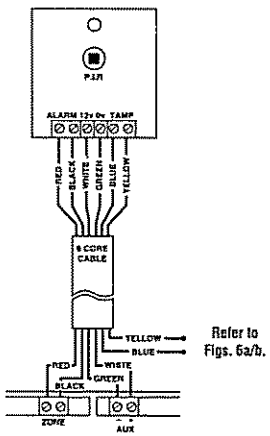
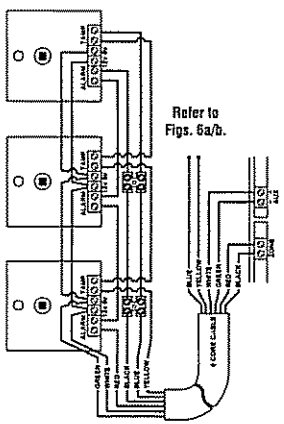


Fig. 5b. Wiring Multiple Powered Detectors to a Zone



Note:

1) Power is wired in parallel, whereas alarm loops are wired in series.
2) Mixing powered detectors and magnetic contacts on one zone is easiest if the wiring is taken from the control panel to the powered detectors first.
3) BS 4737 requires that if two or more powered detectors are connected to a zone, they must each have an audible or visual latching indication or both, except on entry/exit route.

1.4.5 EXTENSION SPEAKER(S)

These are connected to the two terminals on the control panel labelled L/S.

Note:

1) The total load including the built-in speaker must not be less than 4Ω (e.g. 2 x 8Ω speakers in parallel, 4 x 16Ω speakers in parallel, 2 x 2Ω speakers in series, 4 x 1Ω speakers in series, etc.).
2) The polarity of extension speakers is usually unimportant. However, the polarity of the L/S terminals is indicated with + and - markings.

1.4.6 INTERNAL SIREN(S)

If required these are connected to two of the external sounder connections, in addition to the external sounder as follows:

Positive Supply (+12V)	A
Negative Activate/Negative Supply (0V)	B

INS 034-7

1.4.7 GLOBAL SYSTEM TAMPER

This is connected to the terminal pair, labelled TAMP on the control panel. All the individual zone tamper loops should be wired in series.

Figure 6. Wiring the Global System Tamper

Fig. 6a. Wiring the *Veritas 8* and *Veritas R8* Global System Tamper

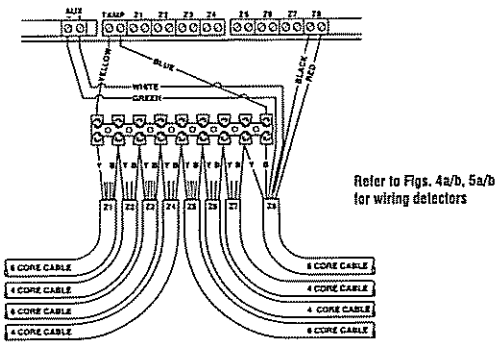
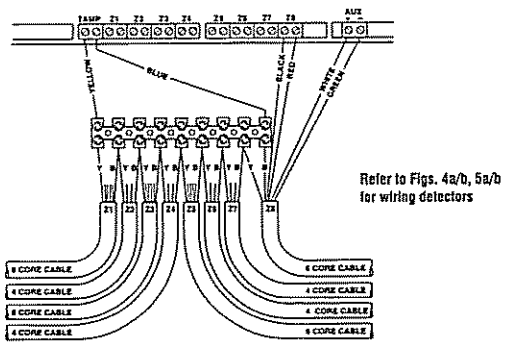


Fig. 6b. Wiring the *Veritas 8 Compact* Global System Tamper



1.4.8 COMMUNICATOR INTERFACE

Some versions of the *Veritas R8* feature an eight output channel digital communicator interface. The polarity of the outputs is programmable (Section 2.3.1). The eight channels are allocated as follows:

Channel 1	Fire
Channel 2	PA
Channel 3	Intruder
Channel 4	Set/Unset
Channel 5	Tamper
Channel 6	Part Set
Channel 7	Entry
Channel 8	Second Intruder (Sequentially Confirmed Alarm)

Note:

1) Second Intruder satisfies the requirements of NACP 14, Issue 1, Section 2.4.

2) A line monitor function may be implemented as follows:

- Program the communicator line monitor output for positive removed on line cut.
- Program the zone type of a spare zone (e.g. zone 8) to Tamper (Section 2.10).
- Remove the zone link and connect the communicator line monitor output to the right hand terminal of the zone input.

1.5 COMMISSIONING THE SYSTEM (INITIAL POWER UP)

ALWAYS ensure the mains is off BEFORE removing the front cover.

- Connect the black battery lead to the negative (–) terminal of the standby battery and the red battery lead to the positive (+) terminal of the standby battery. All the indicator lights will come on. After five seconds the zone lights will turn off and the entry tone will start.
- **Enter the factory-set four digit User code** ④③②①. The entry tone will stop.
- **Enter the factory-set four digit Engineer code** ①②③④ and **press** ⓪⓪ to access the Engineer Programming Menu and disable tamper via the Engineer code. All the zone lights will illuminate.
- Perform a walk test as described in Section 2.6. Remember that some powered detectors (e.g. PIRs and Combined Technology Detectors) take several minutes to warm up and become operational.
- Test the internal sounder, external sounder and strobe as described in Section 2.5. To adjust the low-level volume use the control 'pot' on the PCB (see Section 1.4.1), loudness increases anti-clockwise. If the system fails to operate as expected check that the mounting and wiring are as per the instructions.
- Correct any mistakes and repeat the test (see Section 1.7 on Trouble Shooting).
- Replace the lid and secure with the two lid screws supplied – **do not over-tighten.**
- Replace the screw covers.
- **Press** (RESET) to leave the Programming Menu. All the zone lights will turn off.
- The Power light will be flashing to indicate that action is required. Switch on the mains supply to the control panel. The Power light will stop flashing and stay on continuously. If the factory settings (see inside front cover) are not appropnate then re-program the system as described in Section 2.

Installation is now complete and the system is ready for use.

Note:

When the system is full set, after the exit period, the external strobe will flash for approximately 5 seconds.

1.6 SERVICING THE SYSTEM

ALWAYS ensure the mains is off BEFORE removing the front cover.

Note:

1) The power light on the control panel is a status indicator for the battery charging circuit, a steady light meaning normal. A flashing light means action required - **mains power can still be present.** ALWAYS use a suitable mains test instrument to confirm that mains power is no longer present.

2) The transformer and heatsink may be hot during and after use - do NOT touch.

- Test the internal sounder, external sounder and strobe as described in Section 2.5. Perform a Walk Test as described in Section 2.6. Log events may be viewed by following the procedure described in Section 2.12.
- If it is necessary to remove the lid, first switch off the mains supply to the control panel. Ensure that the Power light is flashing then use a suitable mains test instrument to confirm that mains power is no longer present.
- **Enter the four digit Engineer code and press** ⓪⓪ to access the Programming Menu and disable tamper via the Engineer code. All the zone lights will illuminate.
- Remove the screw covers by inserting a screwdriver into the screw cover slot and turning anti-clockwise whilst applying pressure outwards.
- Unscrew the lid screws and remove the lid.
- On completion replace the lid and secure with the lid screws - **do not over-tighten.**
- Replace the screw covers.
- **Press** (RESET) to leave the Programming Menu. All the zone lights will turn off.
- Switch on the mains supply to the control panel. The Power light will stop flashing and stay on continuously.

NS 034-7