Specifications

Hold off voltage:	13.6 -14.2Vdc (nominal 14Vdc)
Current Consumption @ 13.6 Vdc:	
Quiescence	20mA no LED's 60mA with 24 hr sequential LED's
In alarm with LED's only	100mA
In alarm with sound and LED's	1400mA
Sounder Type:	Loudspeaker
Acoustic Output:	Tone
Sound duration:	Continuous or 3 minutes cut off
Sound Output Levels:	~105db(A) at1 metre
Triggering Method:	-ve applied, +ve applied or hold off removed
Strobe Type:	LED's
Flash Rate:	~ 96 per minute
Triggering Method:	-ve applied, +ve applied or hold off removed
Rechargeable Battery Type:	Lead Acid (not supplied)
Nominal Voltage:	12 volt
Capacity:	3.2mAh maximum
LED Indicators:	Hold off voltage present (optional) and alarm
Tamper:	Removal from mounting surface and cover screw.
Operating Temperature:	--25°C + 60°C
Material:	External Box: ABS Internal cover: Zinc plated steel.
Dimension excluding outer cover:	280mm x 193mm x 100mm
EN50131-1: 2006 + A1: 2009 EN50131-4: 2009	Grade 2 Environmental Class IV Warning device Type: Z

Safety Precautions

- Wear ear defenders if you intend to activate the sound in the process of commissioning.
- Do not look directly at the flashing LED's whilst up a ladder, you may get disoriented.
- Never remove the cover whilst the LED's are flashing.
- The circuit board may get hot during and after sounding, dont touch the board for a few minutes
- When the New Bora is in alarm condition, higher voltages are present. Before removing the cover, stop the sounder
- and strobe from operating.

Failure to observe the following precautions regarding the lead acid battery could lead to danger of heating, ignition, explosion and leaking of hazardous chemicals.

- Do not throw into a fire.
- Do not heat.
- Do not overcharge.
- Do not reverse charge.
- Do not short circuit the battery wires.
- Do not disassemble.
- Always observe local regulations when disposing of a battery.
- Plastic bags can suffocate, always dispose of packaging carefully.

CE

RoHS compliant.

New Bora

BCAD/SO/WB001/*

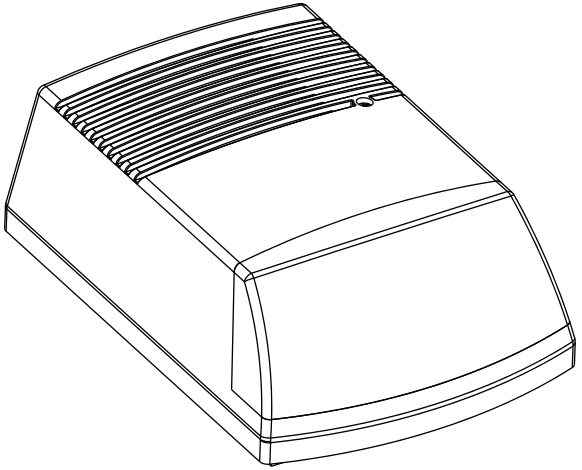
External Warning Device

** Lens colour varies*

CQR FIRE & SECURITY

Robust Design.
Hinged Front cover.
Metal Inner Cover.
LED Strobe with options.
Negative or Positive trigger option.

Operating and Installation Instructions



Description

This self powered external warning device can be installed in security systems up to and including Grade 2 Environmental class IV in accordance with EN50131-1: 2006 + A1: 2009. It is certified by Telefication to EN50131-4: 2009, WD type Z. The warning device features one loudspeaker and an LED strobe array for audible and visual indication of an alarm activation. The sound output is approximately 105dB(A). Installer features include selectable timing/strobe options.

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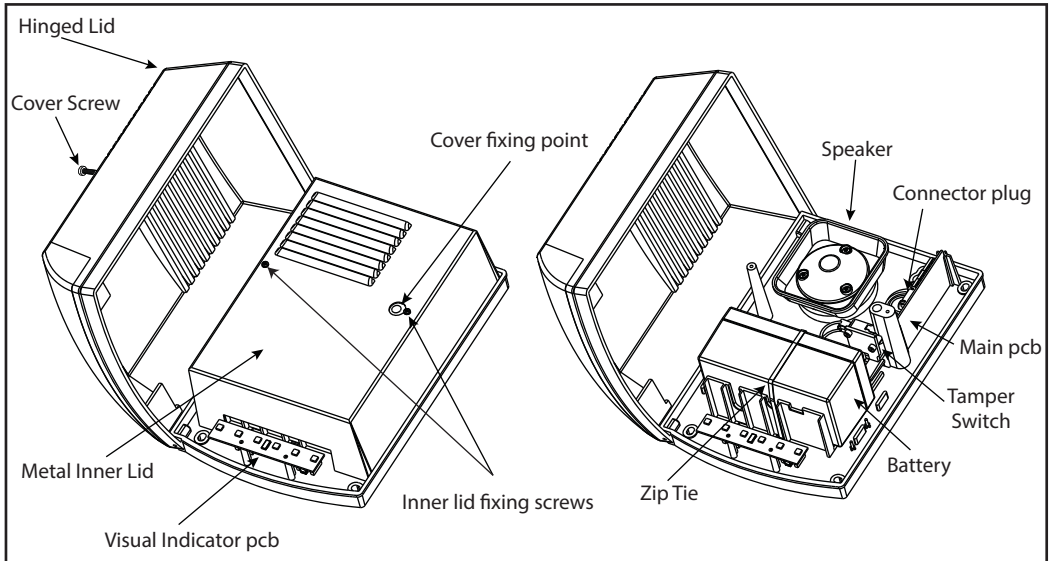
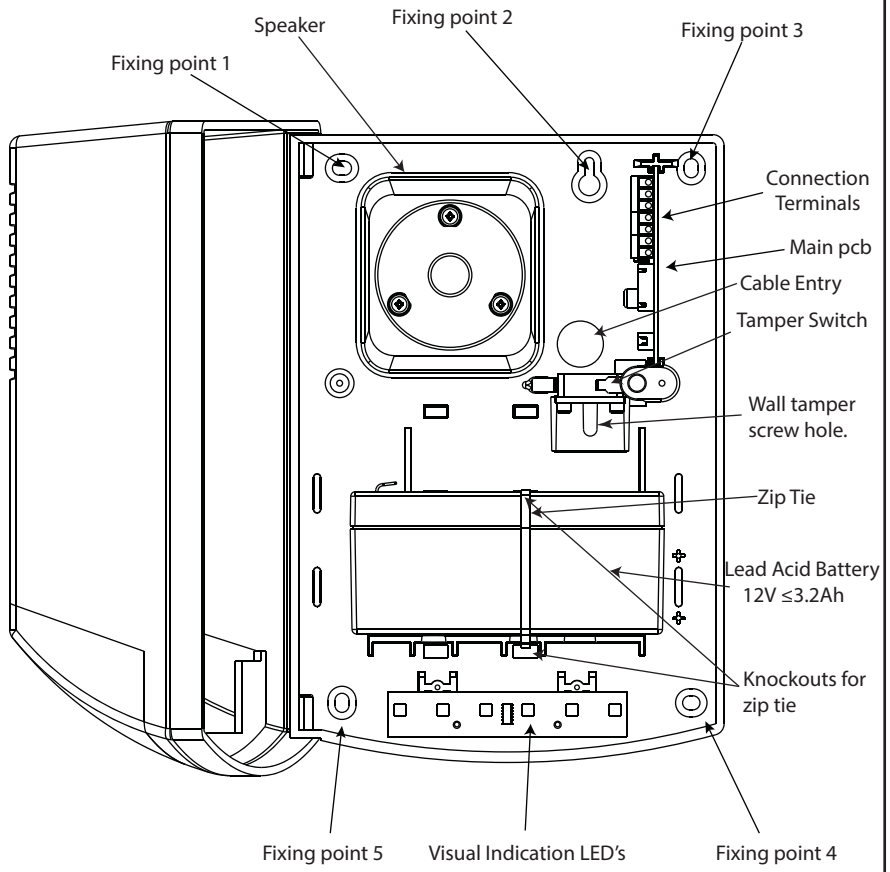
Tel: +44 (0) 151 606 9595 Support: +44 (0) 151 606 6311 email: info@cqr.co.uk Web http://www.cqr.co.uk





New Bora Reference Chart

New Bora Terminals

Link

Manufacturer	Model	TMP	TMP	+14	GND	GO+	GO-	FL-
Texecom	Elite /Prem+	TAMP	0V	+12V	0V		Bell	STRB
	Premier	Zone	Com	Aux12+	Aux12-		Siren	Strb
Honeywell	FLEX	T-	0V	+12V	0V		OP1+	OP2+
	Dimension	Aux Tamp	GND	+12V	0V		R101/1	R101/3
	G2-44	T	0V	Bell +12V	0V		1003	1004
Eaton	ION40	TR	0V	12V Aux	0V Aux		OP3	OP4
	ION50	TR	0V	12V Bell	0V		Bell	STB
	ION160	TR	0V	12V Bell	0V		Bell	STB

Connections shown for a negative applied trigger

Operating Instructions

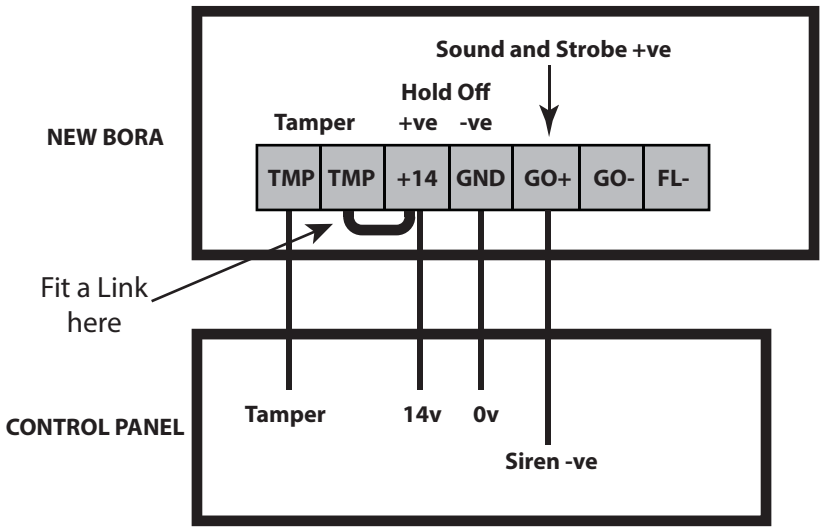
Please follow the Set-up guide for instructions on setting up the device for the configuration required.

- To activate the siren apply an appropriate signal to the **GO-** terminal. To deactivate the siren, remove the applied signal.
- To activate the strobe apply an apropriate signal to the **FL-** terminal. To deactivate the strobe, remove the applied signal.
- If the devices tamper protection is activated, the **TMP** terminals will open circuit Deactivating the tamper protection will result in the terminals going closed.
- Provided the POWER OFF link is in the alarm position, loss of the remote power source to the device will activate the siren for the time selected by the CONT 3MIN jumper.

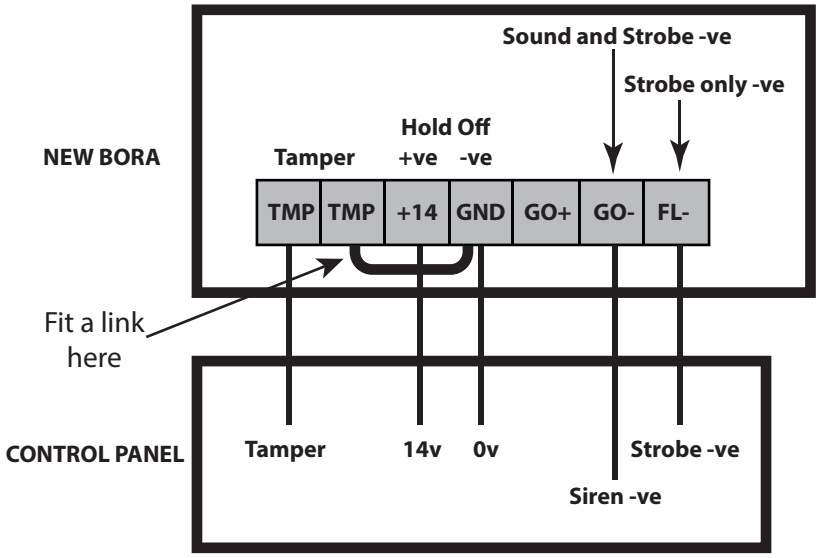
Set-up guide.

1. Ensure that the selectable jumpers are in the desired position.
2. Connect the wires to the New Bora as shown below.
3. Connect the leads to the lead acid battery and zip tie the battery in position
4. Ensure the tamper switch will close properly and refit the metal inner lid.
5. Connect the control panel as indicated below and switch on.

POSITIVE APPLIED TRIGGER SYSTEM



NEGATIVE APPLIED TRIGGER SYSTEM



Features

Engineer Hold-Off

During the initial connection, it is possible to connect the rechargeable battery without the siren activating, thus, the siren can be mounted and connected at the same time (one trip up the ladder) without the need to return to the unit once the hold-off voltage is applied. *Please note this feature is only applicable upon initial installation or if the New bora has been completely de-powered i.e. Hold- off supply and the rechargeable battery disconnected.*

SAB

When activated, all power required to operate the siren is drawn from the control panel, except when hold off voltage is lost when the siren will operate by drawing power from the internal battery.

Options

Tamper Return

Allows you to select either a negative signal or a positive signal for the tamper return output, or just use the two terminals as normally open/ normal closed circuit

Siren and Strobe Triggering

Allows you to choose the triggering method to activate the both the siren and strobe, either -ve applied or +ve applied.

Strobe only Triggering

Allows you to choose the triggering method to activate the strobe only either -ve applied or +ve applied.

Strobe Style Option

When the jumper is set to on, the LED's will light sequencially until an alarm condition is activated. On alarm activation all LED's will flash simultaneously.
When the jumper set to on, the LED's will not light at all until an alarm condition is activated. On alarm activation all LED's will flash simultaneously.

Power Off option.

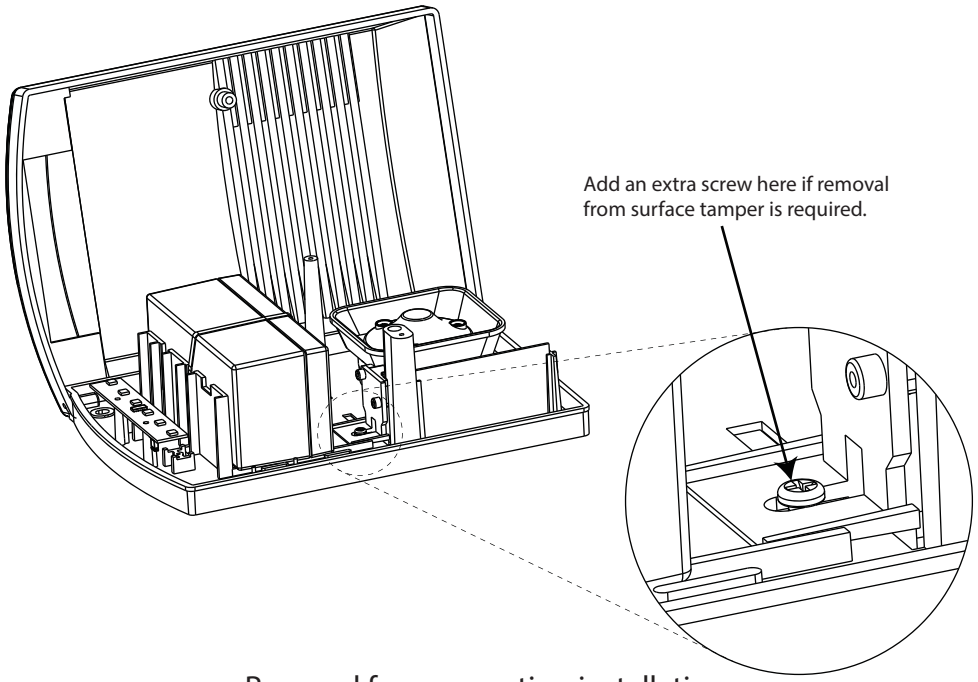
With the jumper in the alarm position, the sounder will activate in the event of power loss. When in the no alarm position, in the event of power loss, the sounder will reman silent.
Please note: in order to comply with EN50131-4 the jumper must be in the alarm position.

Cut-off Timer.

Selectable so that the sound can be continuous or cut off after 3 minutes duration. This will not affect the visual indication which will continue until the system is reset.

Mounting Instructions

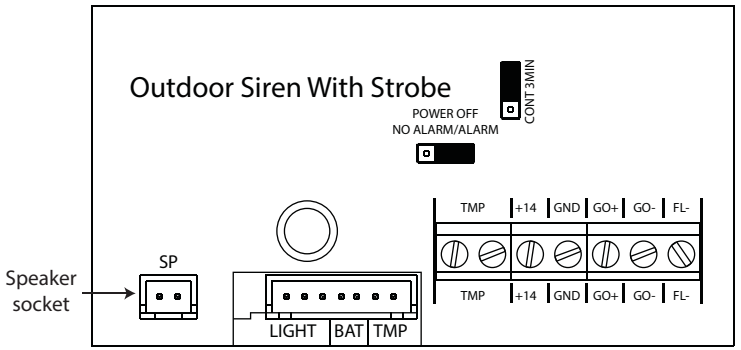
Identify a suitable mounting location for the warning device on a flat wall. It should not be possible to reach the device without the aid of access equipment, were practical it should be sited under the eaves to give additional protection. To remove the lid, unscrew the retaining screw on the front and carefully hinge open the lid. Remove the two screws retaining the metal inner cover and lift the cover off. We recommend the use of at least one zip tie to secure the lead acid battery in place, so using the knockout holes provided, it is better to thread the zip tie through the backplate before fixing it to the wall. Using the backplate as a template, mark a minimum of three fixing points and drill 7mm diameter holes x 36 mm deep (holes 2, 4 and 5) insert the wall plugs into the holes, feed the cable through the cable entry point on the sounder and using the enclosed screws, fix the sounder to the selected location. **Please note** in order for the tamper protection to conform to grades requiring removal from mounting surface protection, a fourth screw is needed through the tamper switch mechanism as shown below.



Removal from mounting installation.

Once the backplate has been mounted, the tamper mechanism should be checked for correct operation by closing and fastening the lid and if necessary bend the tamper arm to suit. Once this is complete, the wiring should be carried out in accordance with the next few

New Bora Circuit Board Layout



Multi connector socket. Terminals

Terminal/ Jumper Descriptions

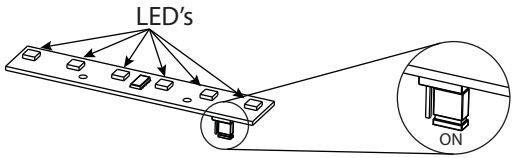
Terminal	Voltage/ Polarity	Description
FL-	0V -ve	Flash only. In alarm only the visual indication is activated
GO-	0V -ve	Flash and sound. In alarm both sound and visual indication are activated.
GO+	14V +ve	Flash and sound 14v +ve.
GND	0V-ve	Hold off voltage 0v -ve.
+14	14V +ve	Hold off voltage 14v +ve.
TMP		Tamper return connection 1.
		Tamper return connection 2.

Jumper	Description
POWER OFF	Selectable either no alarm or **ALARM** in the event of power loss.
CONT 3MIN	Selectable alarm cut off time. Either continuous or **CUT OFF AFTER 3 MIN**

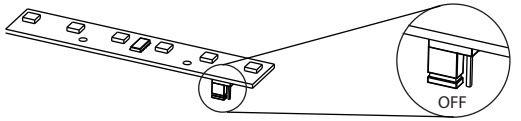
Note: Default settings are in **bold.**

Visual Indicator Settings

The small visual indicator pcb has two settings as listed below.



With the jumper set to on, the LED's will light sequencially until an alarm condition is activated. On alarm activation all LED's will flash simultaneously



With the jumper set to off, the LED's will not light at all until an alarm condition is activated. On alarm activation all LED's will flash simultaneously