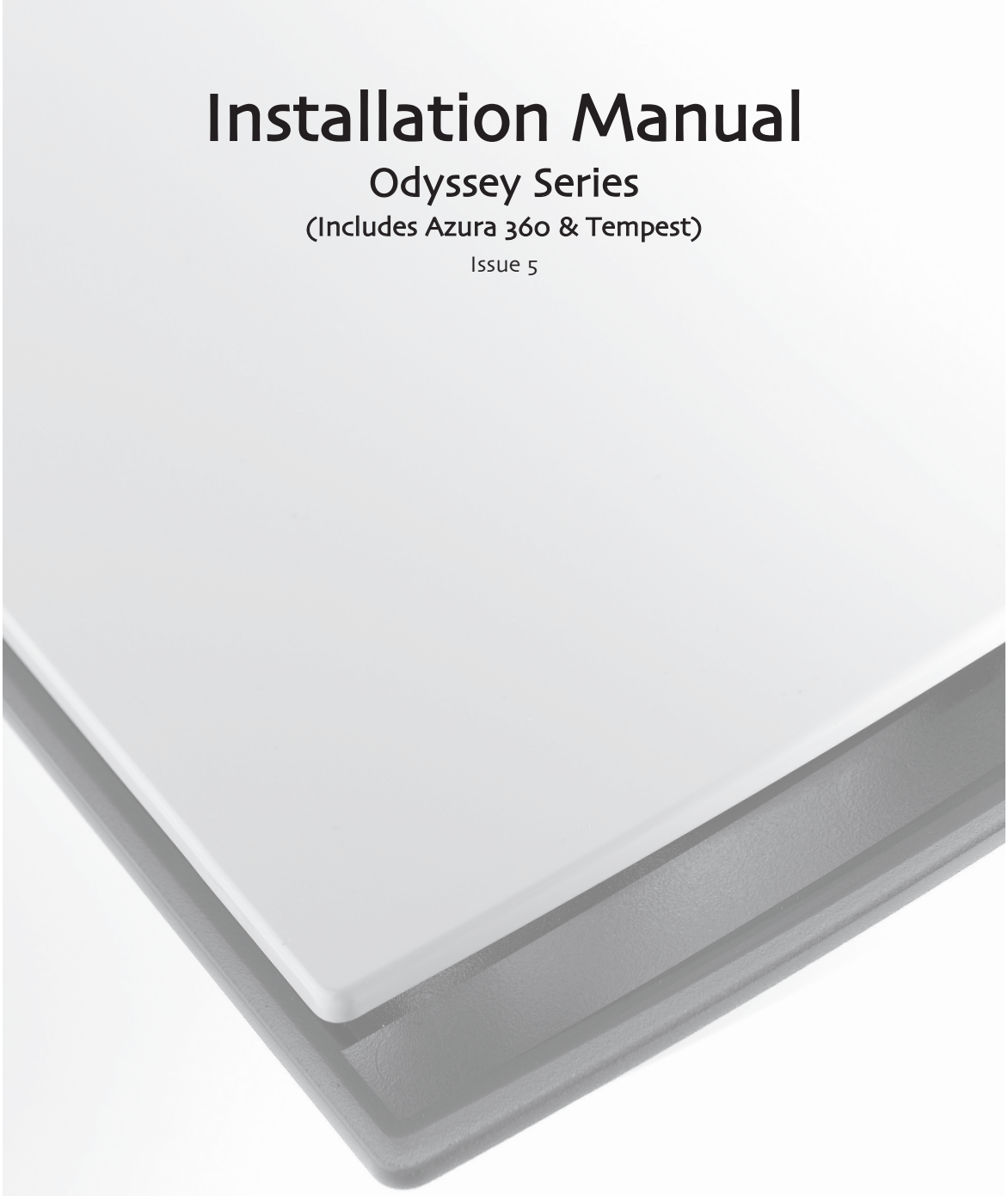
Installation Manual

Odyssey Series

(Includes Azura 360 & Tempest)

Issue 5



CE

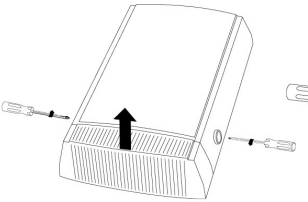
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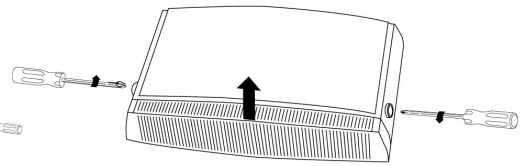
1. Installation

1.1 Accessing the Unit

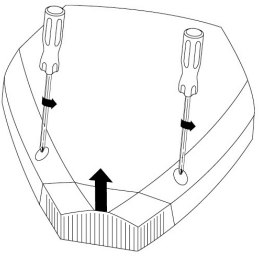
Odyssey 1/1E



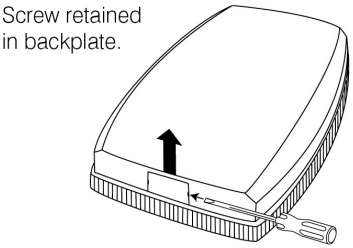
Odyssey 2/2E



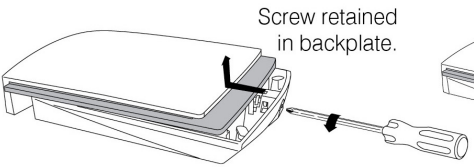
Odyssey 3/3E



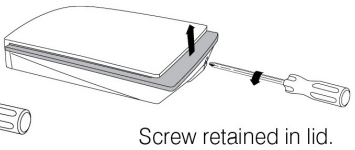
Odyssey 4/4E



Odyssey 5/5E



Odyssey 5 Compact /5E Compact



1.2 Mounting the Unit

Select a suitable position to mount the unit, which satisfies the following criteria:

- Highly prominent for maximum deterrence
- Additional shelter (e.g. under the eaves) is an advantage
- High enough to be out of normal reach to deter tampering
- Safe ladder access
- Good cable access

In addition to the corner screw fixing points, the unit also has a central keyhole to simplify mounting and aid levelling.

Four screws and wall plugs are required for mounting the backplate to an even surface. An additional screw may be required to provide wall tamper by fitting through the screw hole next to the dual tamper microswitch. In doing so, care must be taken to leave the screw head slightly proud to ensure that the microswitch remains level and closes correctly when the outer cover is fitted.

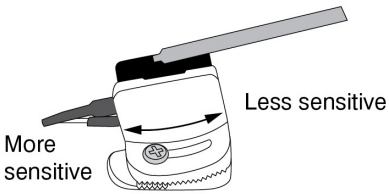
NOTE For maximum weatherproofing the unit should be flat to the wall.

NOTE For brick walls, BS 4737 specifies a minimum of three No. 10 steel screws penetrating the brick (not the mortar or facing) by at least 40mm into suitable wall plugs.

1.3 Adjusting Tamper Sensitivity

Some Texecom external sounder models now include a patented* tamper adjustment feature. If greater wall/lid tamper sensitivity is required, the microswitch position can be adjusted by loosening the locking screw and altering the orientation of the microswitch as shown.

* Patent pending



1.4 Wiring the Unit

Connect the unit to the control panel as follows:

A (12V)	Permanent Positive Supply
B (BELL)	Negative Applied Output to Activate Siren
C (TAMP)	Negative Removed on Tamper Input
D (0V)	Permanent Negative Supply
S (STRB)	Negative Applied Output to Activate Strobe

Although the unit has been designed to be compatible with a wide range of control panels, for optimum performance, it is highly recommended that the unit should be used with Texecom's range of control panels.

For safety reasons, each Texecom sounder and strobe unit incorporates a unique patented engineer Hold-Off mode. This mode prevents the unit from self-activating during installation and maintenance, thereby allowing only bona fide engineers access to the unit without any loss of tamper protection.

When connecting the unit to the control panel, it is recommended that wiring should be connected to the unit **first** and the control panel **second**. The unit should then be initially powered from the control panel. If the tamper circuit is open the siren will sound for 5 seconds after which it will automatically enter Hold-Off mode and disable Self-Activate (S/A) on tamper. This will prevent the unit from self-activating as long as the tamper circuit remains open. An open tamper circuit is indicated by only the left-hand side LED flashing. Connect the battery either using the jumper included on some models or by moving the red battery wire from the "N/C" (No Connect) terminal to the "Battery +" terminal. Fit the outer cover and secure with the M6 screw(s) provided.

When the outer cover is replaced and the tamper circuit is closed, the LEDs will alternate rapidly, confirming that the tamper circuit is secure and signalling that S/A on tamper will be re-enabled within 2 minutes, after which the LEDs will alternate slowly to signal normal operation. If the tamper circuit is re-opened within the 2 minute period, then Hold-Off mode will be restored.



If the unit is powered up with the tamper circuit closed it will NOT sound for 5 seconds and will NOT enter Hold-Off mode. In order to disable the S/A function, before the cover is removed, Hold-Off mode should be invoked as for servicing (see Section 2).



For safety reasons the strobe is disabled during Hold-Off mode.



Hold-Off mode is immediately cancelled when the sounder is activated from the control panel.

1.4.1 Optional "Battery First" Connection Method

Hold-Off mode automatically cancels when both the tamper circuit is closed and power is supplied from the control panel. This allows installation engineers to power the unit from the internal battery and fit the outer cover, knowing that the unit cannot self-activate until after power has been supplied from the control panel.



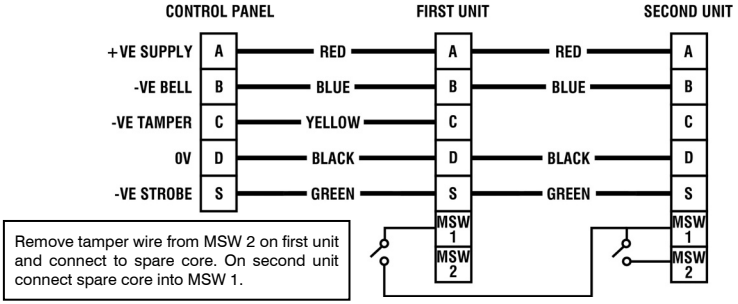
If the tamper circuit is closed and the unit is powered by the battery only, the right LED will flash quickly to signal that the unit cannot self-activate until power has been supplied from the control panel.



Prolonged "battery first" connection without power from the control panel may cause permanent damage to the internal battery. Texecom recommend that the unit is initially powered on battery only for no longer than 24 hours.

1.5 Installing Multiple Units

The following diagram illustrates how to wire multiple units together:



If the first unit is opened it will self-activate and a tamper will be signalled to the control panel. If the second unit is opened both units will self-activate and a tamper will be signalled to the control panel.

If more than one unit is connected to an installation, the current demand may exceed the rated current output of the control panel. This can be avoided by selecting Low Current (LC) or SCB mode on one or more of the connected units.

1.5.1 Low Current Mode

Low current mode* allows the sounder current draw from the control panel to be reduced whilst maintaining significant alarm volume. To select low current mode, ensure the SAB/SCB jumper is in the SAB position and move the LC jumper to the Low Current on position. Details on current draw can be found in the technical specification (section 4).

* Not available on all models

1.5.2 SCB Mode

In SCB mode the unit draws the majority of its sounding current from the built-in battery rather than from the control panel. Although volume is somewhat reduced, lowering the current demand on the control panel will enable the connection of additional sounder units.

To select SCB Mode, the unit should first be powered from the built-in battery by either using the jumper included on some models or by connecting the red battery wire from the “N/C” (No Connect) terminal to the “Battery +” terminal. The unit will automatically enter Hold-Off mode to disable Self-Activate (S/A) on tamper, this will prevent the unit from self-activating until both the tamper circuit is closed and power is supplied from the control panel. Move the SAB/SCB jumper to the SCB position before the unit is connected to the control panel.

NOTE If the tamper circuit is closed and the unit is powered by the battery only, the right LED will flash quickly to signal that the unit cannot self-activate until power has been supplied from the control panel.

NOTE When selecting SCB mode the battery must be connected before power is supplied from the control panel. If a unit is powered from a control panel with SCB mode selected but without the battery connected, the unit will not operate correctly due to the lack of power provided.

NOTE The built-in battery will only be partially charged on delivery.

1.6 Commissioning

Most control panels have a method of testing the siren and strobe, which should be utilised for final testing. Failing this, simply arm the system and cause an alarm to confirm correct operation. Temporarily disconnect the positive supply to the unit at the control panel to confirm that the sounder self-activates.

NOTE The strobe does not self-activate.

NOTE Some control panels have an option to select the sounder cut-off time. The unit will sound for either 15 minutes or for the panel cut-off time, whichever is the shorter.

Please note, it cannot be guaranteed that the battery is fully charged on installation. When commissioning, the unit may require to be powered from the control panel for a period of time before the battery is sufficiently charged for self-activation.

2. Servicing

CAUTION: BEFORE OPENING THE COVER ALLOW AT LEAST 3 MINUTES AFTER THE LAST STROBE FLASH

Most control panels have a method of testing the siren and strobe, which should be utilised. Failing this, simply arm the system and cause an alarm to confirm correct operation. Temporarily disconnect the positive supply to the unit at the control panel to confirm that the sounder self-activates.

NOTE The strobe does not self-activate.

NOTE Some control panels have an option to select the sounder cut-off time. The unit will sound for either 15 minutes or for the panel cut-off time, whichever is the shorter.

For safety reasons if it is necessary to inspect the unit, the Self-Activate (S/A) function should be disabled before the cover is opened or remote power removed. This is achieved by using the unit's unique patented engineer Hold-Off mode. This is invoked by activating and de-activating the strobe three times within 30 seconds. Most control panels have a method of testing the strobe, which should be utilised. Failing this the strobe can be manually activated by connecting the S (STRB) wire to 0V at the control panel. Hold-Off mode is shown to be active with the tamper circuit secure by the right LED only flashing.

If the tamper circuit is not opened or remote power not removed, then Hold-Off mode will automatically start to cancel after 15 minutes, indicated by the LEDs alternating rapidly to signal that S/A on tamper and remote power loss will be re-enabled within a further 2 minutes.

Once the outer cover is removed the left LED only will flash to indicate that the tamper circuit is open. If remote power is removed, and the tamper circuit is left closed, the right LED with flash rapidly to indicate that the unit is on standby battery power.

When the tamper circuit is closed or remote power re-applied, the LEDs will alternate rapidly, confirming that the tamper circuit is secure, remote power is present and signalling that the self activating S/A function will be re-enabled within 2 minutes, after which the LEDs will alternate slowly to signal normal operation. If the tamper circuit is re-opened or remote power removed within the 2 minute period, then Hold-Off mode will be restored.

Summary of LED States	
Slow flashing LEDs	Normal operation
Left LED flashing only	Hold-Off active, tamper circuit open
Right LED flashing only	Hold-Off active, tamper circuit closed
Fast flashing Right LED	Hold-Off active, remote power removed
Fast flashing LEDs	Hold-Off active but will cancel within 2 minutes

NOTE If Hold-Off mode is invoked but the tamper circuit is not opened or remote power is not removed within 15 minutes then Hold-Off will automatically start to cancel, indicated by the LEDs alternating rapidly for a further 2 minutes.

NOTE For safety reasons the strobe is disabled during Hold-Off mode.

NOTE Hold-Off mode is immediately cancelled when the sounder is activated from the control panel unless the system is powered down.

3. Safety

INSTALLATION AND MAINTENANCE BY QUALIFIED SERVICE PERSONNEL ONLY

All strobes produce hazardous voltages. However, the unit includes dual circuit safety interlocks. When the strobe is de-activated it invokes a final flash to discharge the high voltage. Back-up circuitry guarantees discharge of the high voltage within 3 minutes.

For your own safety be sure to observe the following precautions when installing and servicing the unit:

- **NEVER** remove the cover when the strobe is flashing
- **WAIT** 3 minutes after the strobe stops flashing before removing the cover
- **AVOID** touching the part of the PCB labelled "Warning High Voltage"

The unit incorporates software which disables the strobe whilst the tamper switch remains open. This is a safety feature and cannot be disabled.

The piezo drive produces high voltages when the siren is sounding. While not directly hazardous, these voltages will cause discomfort and should be avoided, particularly when using tools or a ladder.

The piezo transformer TF1 and surrounding components will be hot during and after sounding. While not directly hazardous, contact when hot will cause discomfort and should be avoided, particularly when using tools or a ladder.

Failure to observe the following precautions regarding the battery could lead to the danger of heating, ignition or explosion:

- Do not throw into a fire
- Do not heat
- Do not over-charge
- Do not reverse charge
- Do not short-circuit
- Do not disassemble
- Replace only with the same or equivalent type

NOTE Always observe local regulations when disposing of a battery.

Plastic bags can suffocate - always dispose of packaging carefully.

4. Technical Specification

Environmental	
Volume (SAB mode at 13.7V_{DC})	
Azura 360, Tempest:	109dB Peak at 1m (A Weighting, 90°)
Odyssey E Models:	109dB Peak at 1m (A Weighting, 90°)
Odyssey Models:	115dB Peak at 1m (A Weighting, 90°)
Cut-Off Time:	≤15 minutes
Waterproof Coating:	Conformal
Environmental Protection	
Azura 360, Tempest:	IP44
Odyssey E Models:	IP44
Odyssey Models:	IP65
Operating Temperature:	-25°C (-13°F) to +55°C (+131°F)
Storage Temperature:	-25°C (-13°F) to +60°C (+140°F)
EMC Environment:	Residential / Commercial / Light Industrial / Industrial

Electrical			
Supply Voltage:	10-16 V_{DC} (13.7 nominal)		
Current Drain (typical at 13.7V_{DC})			
Quiescent:	18mA		
Strobe:	100mA		
Sounder	**SAB**	**LC**	**SCB**
Azura 360, Tempest:	285mA	160mA	30mA
Odyssey E Models:	285mA	160mA	30mA
Odyssey Models:	405mA	190mA	30mA
Standby Battery			
Type:	NiMh Stack		
Voltage:	7.2V_{DC} (nominal)		
Capacity:	260mAh		
Flash Tube:	1Ws Xenon		
Flash Rate:	1Hz (typical)*		
Discharge Time (≤60V_{DC}):	≤180 seconds		
Comfort LEDs			
Brightness:	100mcd (typical)		
Flash Rate (tamper secure):	1Hz alternating (typical)		

* The flash rate will reduce to 0.125Hz after flashing for one hour (1 flash every 8 seconds). This is a software feature to reduce power consumption and cannot be disabled.

NOTE Total alarm current = Quiescent + Strobe + Sounder current.

Physical	
Material	
Odyssey 3M	3mm polycarbonate 1.5mm galvanised steel
All other models	3mm polycarbonate
Tamper Detection	
Odyssey 1, 2, 3, 4, 5	Wall, screw and lid
Odyssey 3M	Wall, lid and internal steel cover
All other models	Wall and lid
Dimensions (h x w x d)	
Azura 360:	319mm x 196mm x 77mm (12.56" x 7.80" x 3.64")
Tempest:	316mm x 205mm x 89mm (12.44" x 8.07" x 3.50")
Odyssey 1 & 1E:	318mm x 201mm x 66.5mm (12.52" x 7.91" x 2.62")
Odyssey 2 & 2E:	242mm x 382mm x 76mm (9.53" x15.03" x 2.99")
Odyssey 3, 3E & 3M:	315mm x 306mm x 78mm (12.40" x 12.04" x 3.07")
Odyssey 4 & 4E:	310mm x 196mm x 58.5mm (12.20" x 7.71" x 2.30")
Odyssey 5 & 5E:	284 mm x 256 mm x 68 mm (11.18" x 10.08" x 2.68")
Odyssey 5C & 5EC:	189 mm x 186 mm x 60 mm (7.44" x 7.32" x 2.36")
Packed Weight	
Azura 360, Tempest:	1250g (44oz) approx.
Odyssey 1, 1E, 3, 3E, 4, 4E, 5& 5E:	1250g (44oz) approx.
Odyssey 2 & 2E:	1600g (56oz) approx.
Odyssey 3M:	3000g (106oz) approx.
Odyssey 5C & 5EC	950g (34oz) approx.

Standards	
Safety:	Conforms to European Union (EU) Low Voltage Directive (LVD) 73/23/EEC (amended by 93/68/EEC).
EMC:	Conforms to European Union (EU) Electro-Magnetic Compatibility (EMC) Directive 89/336/EEC (amended by 92/31/EEC and 93/68/EEC).
Security Specific:	Conforms to EN50131-1/PD6662 Grade 3, Env Class IV Requirements

⚠ To comply with EU Directives the unit MUST ONLY be connected to a fused power source (≤5A) supplied from an isolating transformer.

The CE mark indicates that this product complies with the European requirements for safety, health, environmental and customer protection.

5. Warranty

All Texecom products are designed for reliable, trouble-free operation. Quality is carefully monitored by extensive computerised testing. As a result the *Azura 360*, *Tempest, Odyssey 1E, 2E, 3E, 4E, 5E* and *5E Compact* are covered by a two year warranty against defects in material or workmanship (details on request).
The *Odyssey 1*, *2, 3, 4, 5,* and *5 Compact* are covered by a five year warranty.

Because the *Azura 360*, *Tempest* and *Odyssey Series* are not complete alarm systems but only a part thereof, Texecom cannot accept responsibility or liability for any damages whatsoever based on a claim that a unit failed to function correctly. Due to our policy of continuous improvement Texecom reserve the right to change specification without prior notice.

Azura 360, *Tempest* and *Odyssey* are trademarks of Texecom Ltd.

Certificate of Conformity

This is to certify that the following external warning devices comply with:

PD6662:2004 & prEN50131-1:2004
Grade 3 Environmental Class IV

Odyssey 1/1E
Odyssey 2/2E
Odyssey 3/3E/3Metal
Odyssey 4/4E
Odyssey 5/5E
Odyssey 5/5E Compact
Azura 360
Tempest

On behalf of the manufacturer:

Texecom Ltd. Bradwood Court, St. Crispin Way, Haslingden, Lancashire, BB4 4PW

This declaration is submitted by:



R J Austen
Vice Chairman
1st August 2007

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