

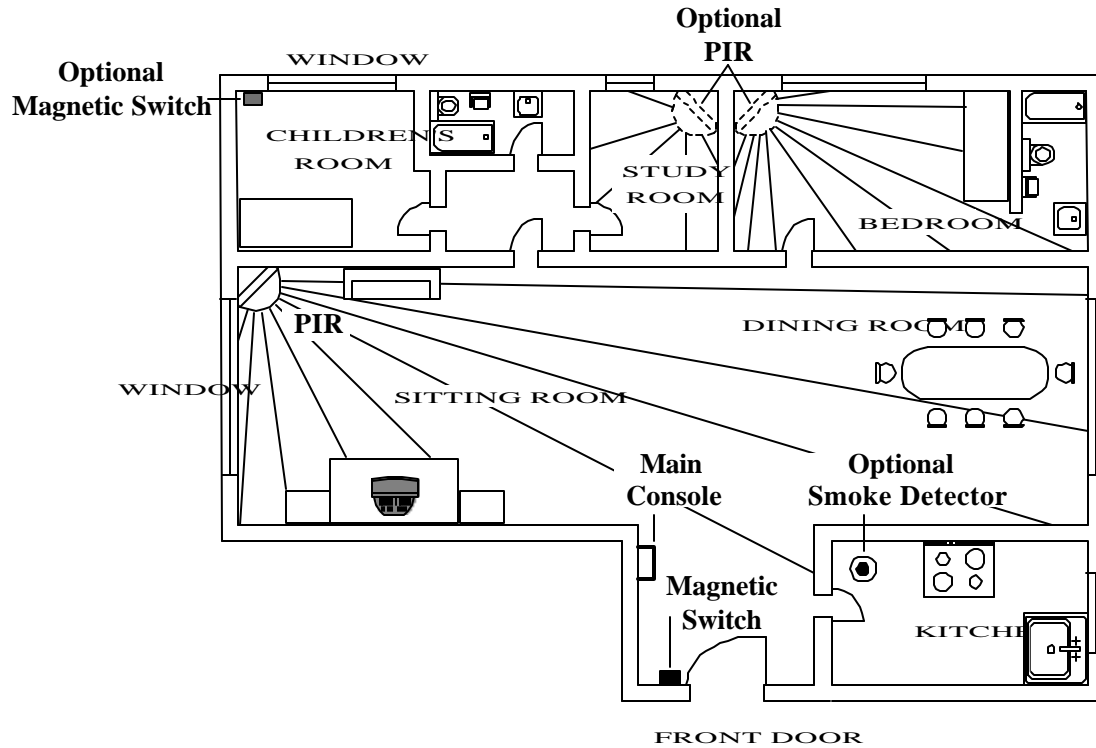
**LS2500**  
**WIRELESS SECURITY SYSTEM**  
INSTALLATION GUIDE

**COMMERCIAL CONFIDENTIAL**

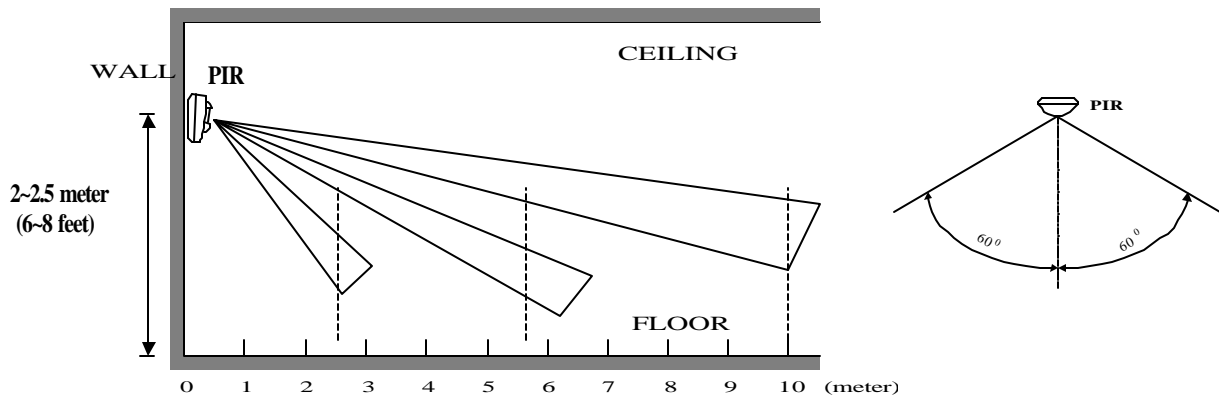
## I. Installation Guide

### DIY Installation Guide

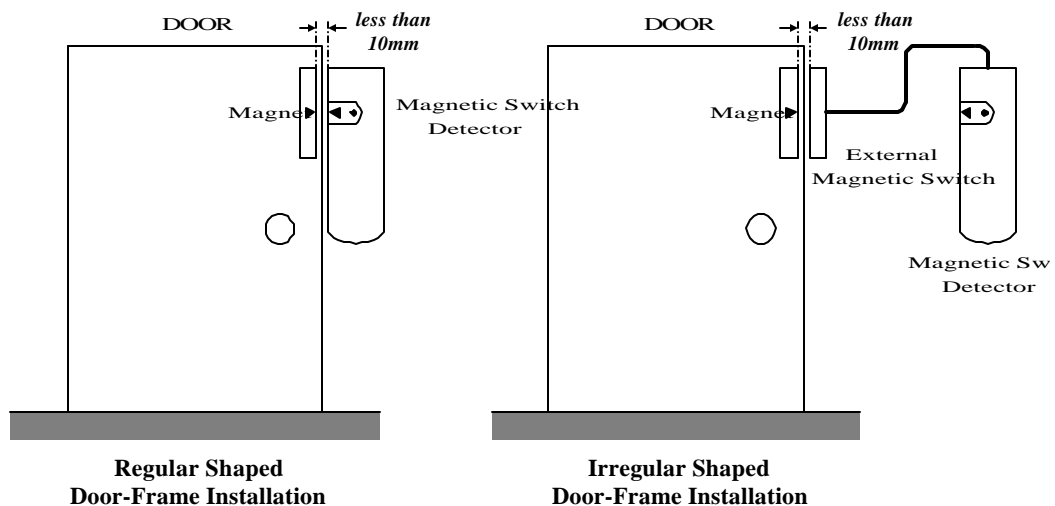
#### 1. Suggested Location of Main Console and Accessories



#### 2. Mounting Height and Detection Range of PIR

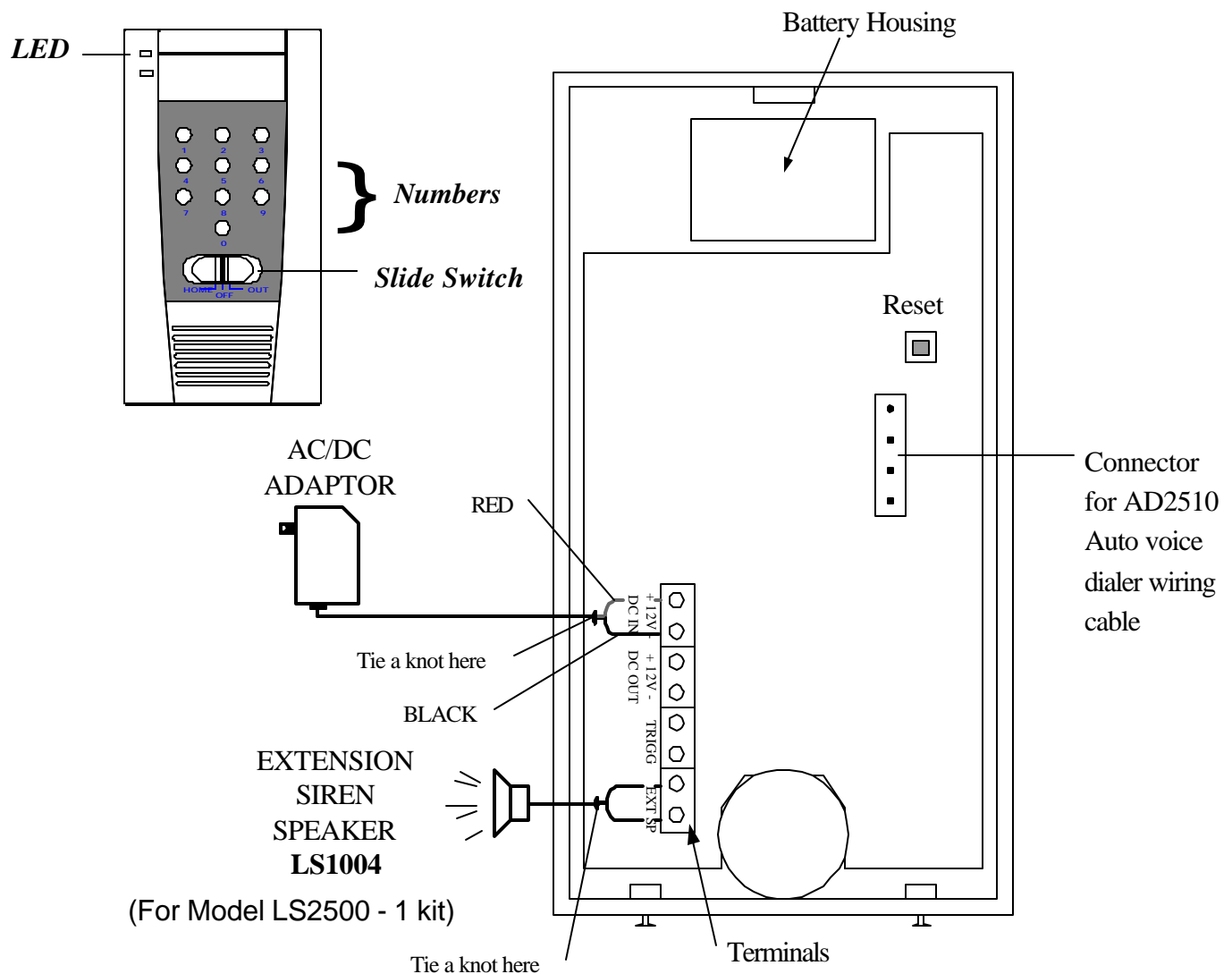


#### 3. Magnetic Switch Location



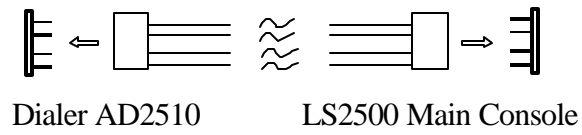
#### 4. Installation of Main Console

- a) Slacken the two screws at the base of the Main Console and open the back cover.
- b) Push the slide switch to the “OFF” position.
- c) Make connection to the terminals as shown in the diagram.
- d) Plug a 9V ALKALINE battery (**not included**) in the battery snap.
- e) Connect the automatic dialer to the connectors with wiring cable provided.
- f1) Take off the double-sided glue-tape paper on the back cover, and stick it on the chosen location or
- f2) Leave the double-sided glue-tape on the back cover, mount the Main Console with the screws provided through the screw-mounting holes as shown in the diagrams.
- g) Replace and screw the Main Console to the back cover
- h) Plug the AC Adaptor to the Main Power Outlet

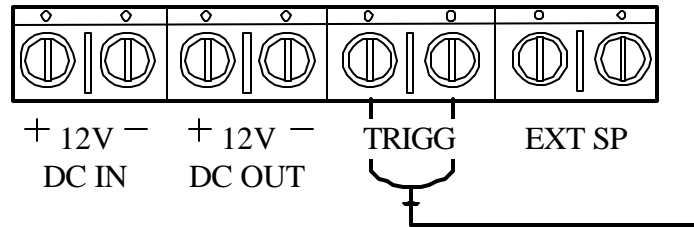


- **Optional Connections**

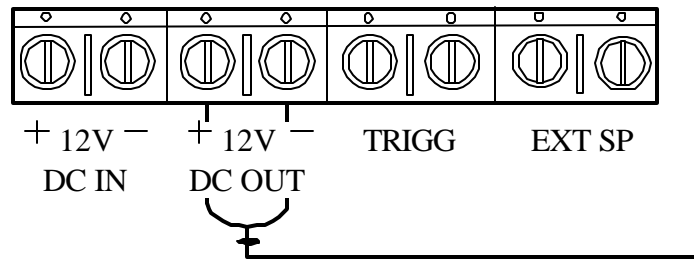
IV. Connect the AD2510 automatic voice dialer with the wiring cable.



V. Power supply (12V DC out).

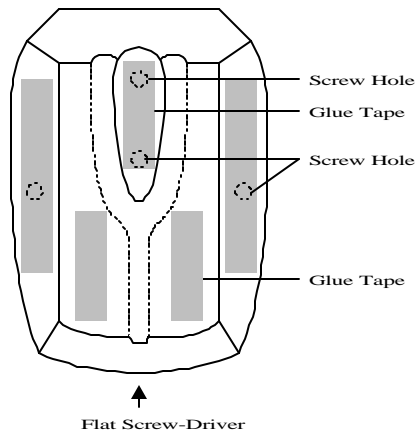


VI. Connect the external device. (e.g. **COMBELL Siren/Strobe Unit** )

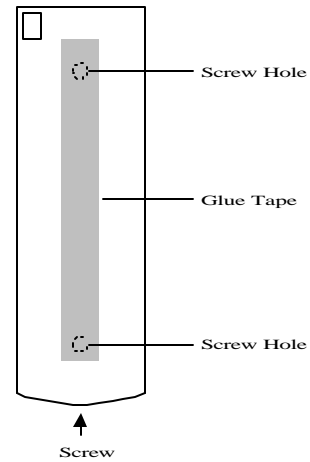


## 5. Installation of PIR and Magnetic Switch

- a) **PIR** — insert a flat screw-driver into the bottom of PIR to open the back cover.  
**Magnetic Switch** — slacken the screw at the base.
- b) Plug a 9V ALKALINE battery in the battery slap.
- c1) Take off the double-sided glue-tape paper on the back covers, and stick them on the chosen locations  
OR
- c2) Leave the double-sided glue-tape on the back covers, mount the units with the screws provided through the screw-mounting holes as shown in the diagrams.
- d) Replace the units to the back covers



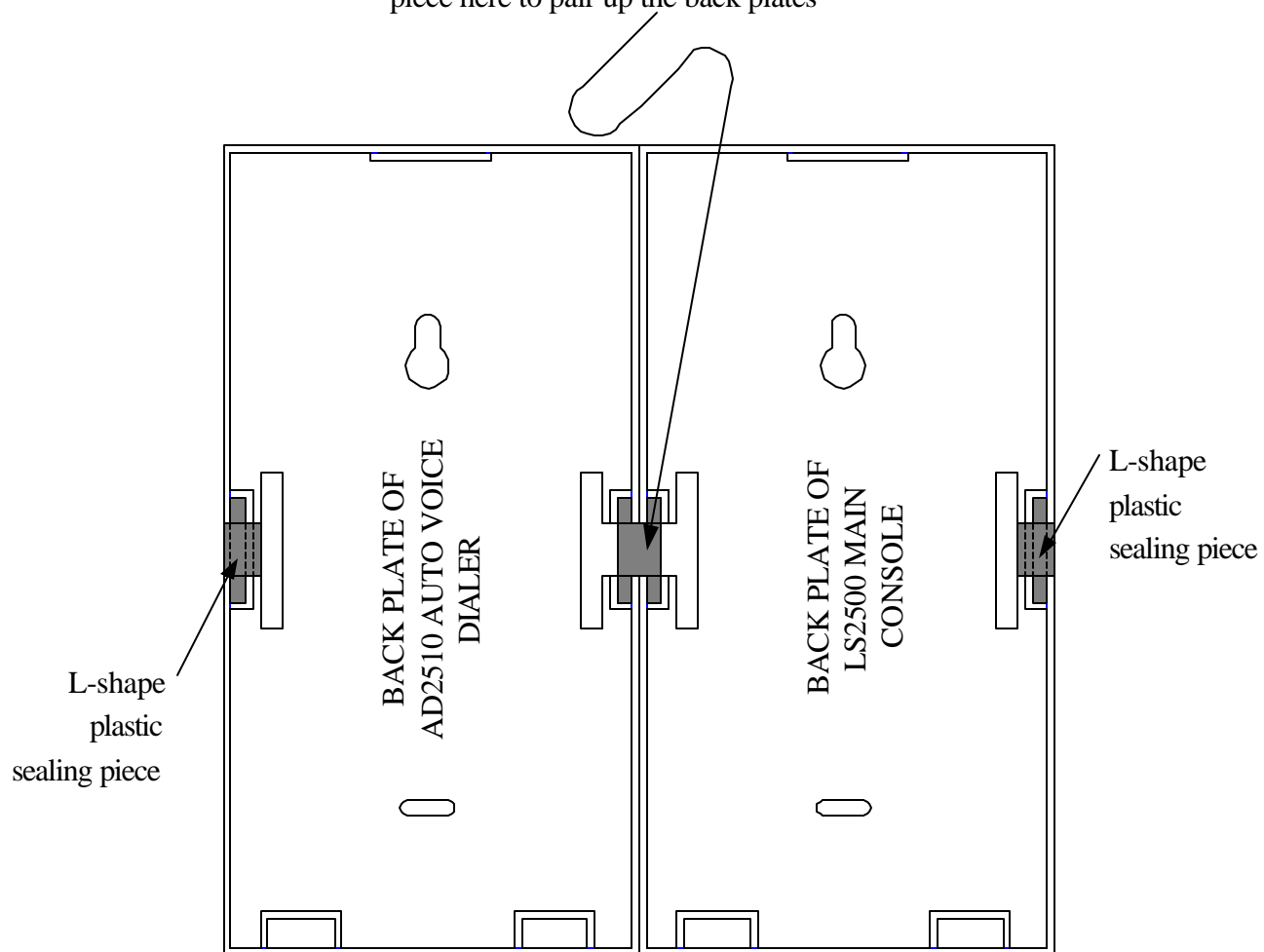
**The Back Cover of PIR Detector**



**The Back Cover of Magnetic Switch**

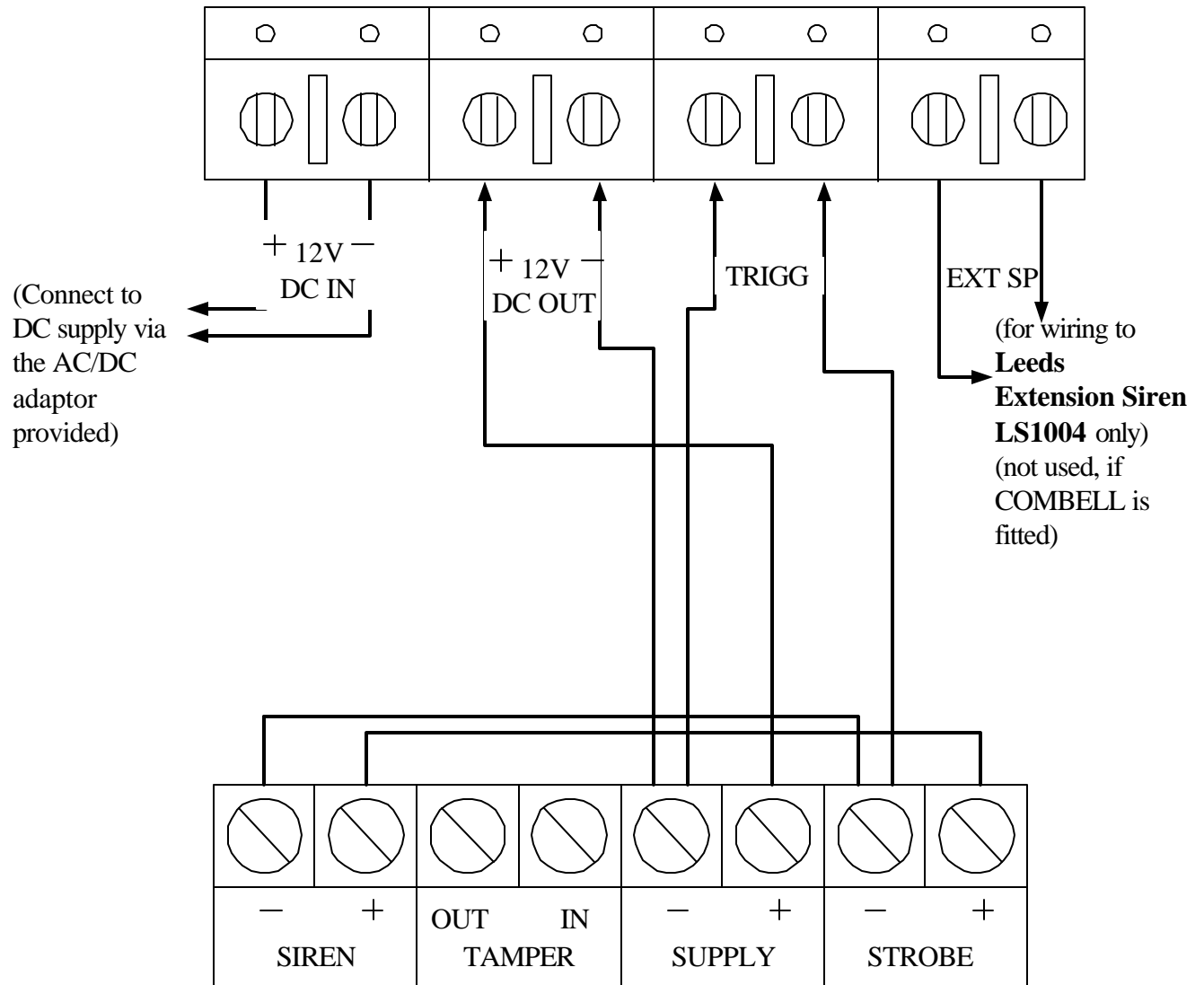
- Caution:**
- 1. **9V ALKALINE battery** is highly recommended for use in Main Console and all other accessories.
  - 2. ***Don't locate the PIR facing directly to window or heat source.***
  - 3. The Factory Code of the Main Console and Accessories is preset on the Mini-Switch.  
***Don't touch the Mini-Switch.***

Plug the H-shaped plastic connecting  
piece here to pair up the back plates



## Connecting diagram 1 for external siren/strobe

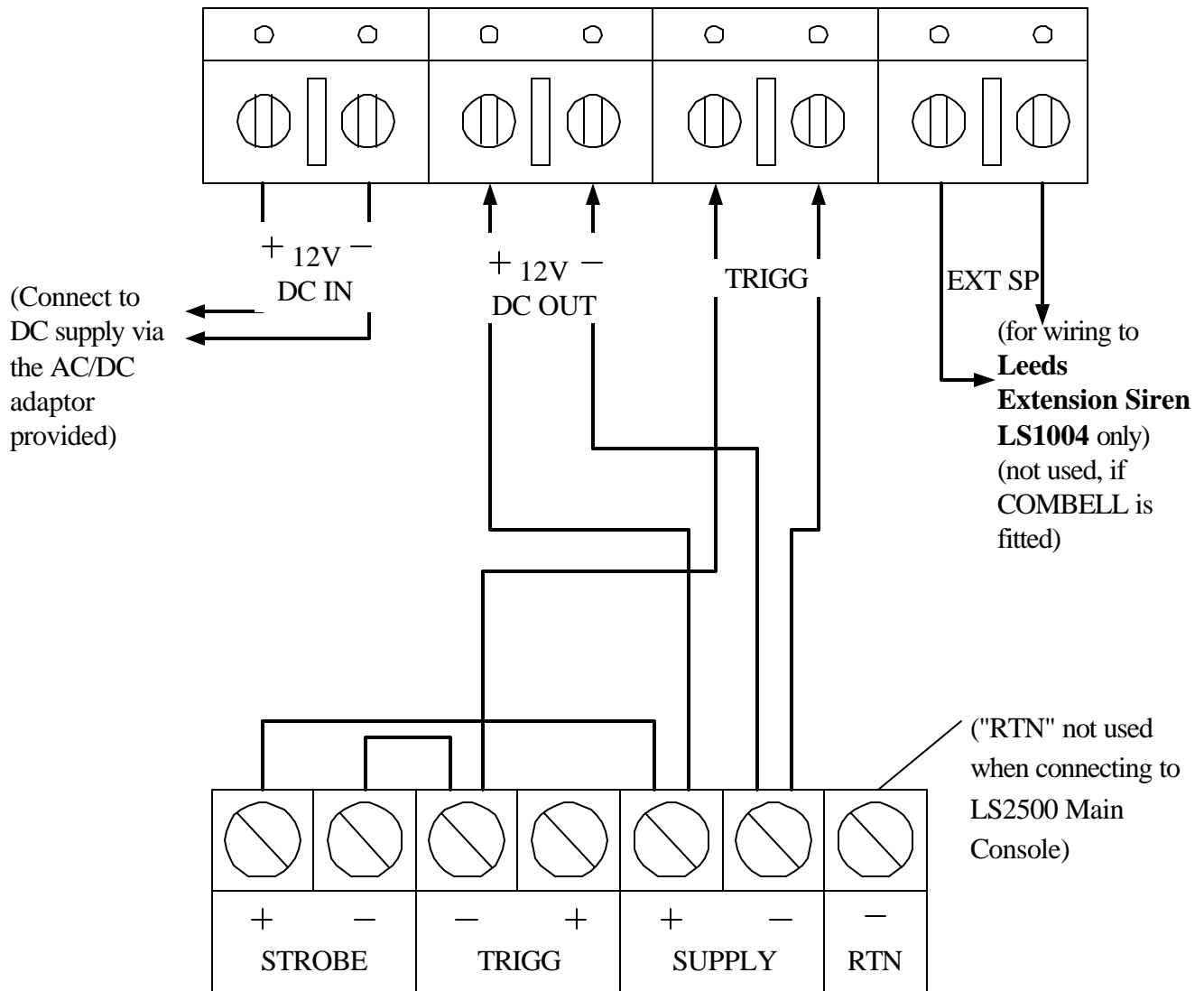
### (LS2500 MAIN CONSOLE TERMINALS)



### (COMBELL L083E TERMINALS)

## Connecting diagram 2 for external siren/strobe

### (LS2500 MAIN CONSOLE TERMINALS)

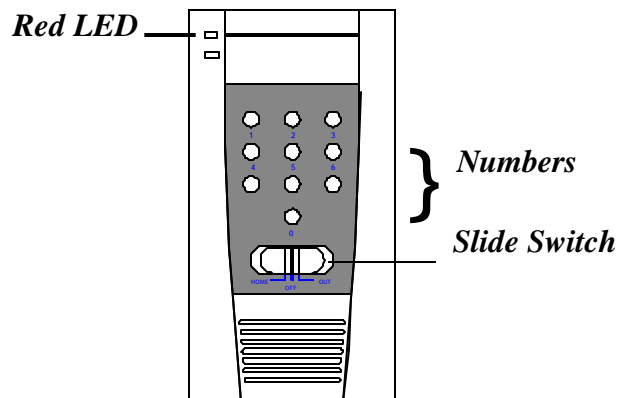


### (COMBELL L082E TERMINALS)



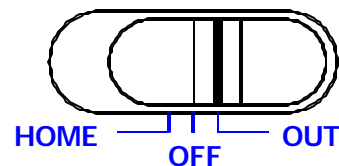
## VIII. Operation

### LS2500 OPERATION MANUAL



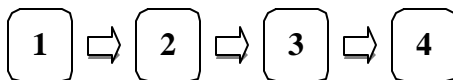
#### A) Turn on Alarm System while Exiting the House

- 1) Push the slide switch to "OUT" position.
- 2) Close the door and leave the house within **30** seconds.
- 3) Both PIR & Magnetic Switch are activated for protection

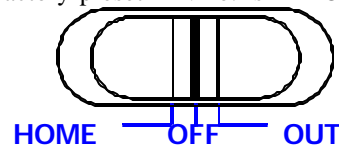


#### B) Switch off Alarm System when Entering the House

- 1) Enter your own four-digit PIN number within **15** seconds. (Note: The factory preset PIN no. is "1 2 3 4". To change the PIN no., please see procedure "E")

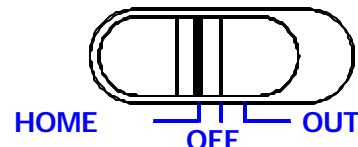


- 2) Push the slide switch to "OFF" position.



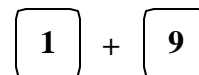
#### C) When Inside the House

- 1) Push the slide switch to "HOME" position.
- 2) Magnetic Switch and optional Curtain-Lens PIR are activated to protect your door / window.



#### D) Panic Alarm

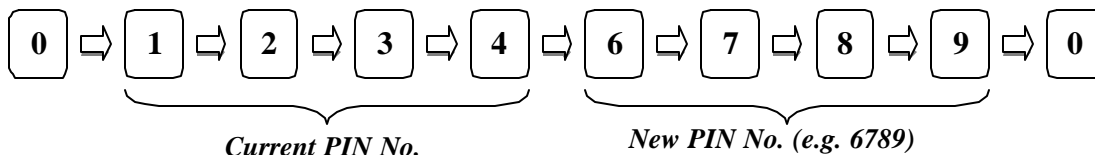
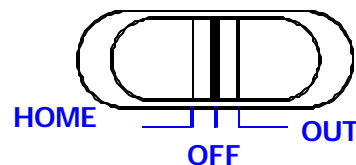
Press Buttons "1" and "9" together, alarm will sound immediately.



#### E) Change PIN Number

User is highly recommended to change the PIN number when uses it at the first time.

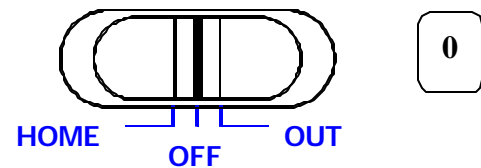
- 1) Push the slide switch to "OFF" position.
- 2) Key in the PIN numbers as follows:



#### F) Alarm Hold

After the Main Console was triggered and continued sounding for 3 minutes, the Alarm Hold Light (Red LED Indicator) turns on. To turn off the Red LED Indicator, do as follows:

- 1) Push the slide switch to “**OFF**” position.
- 2) Press Button “**0**”. Then wait for 5 seconds.



- Note:**
1. Any alarm can be stopped by pressing the valid four-digit PIN numbers.
  2. Periodically beep sound in one and a half minute cycle from PIR or Magnetic Switch indicate that it is in low battery situation. Replace a new battery according to the Installation Manual.
  3. In case you forget PIN number, press the “**RESET**” button inside the alarm unit (refer to the diagram in Installation Manual) to restore the PIN number to the factory default setting (**1 2 3 4**).

---

**Note :** *This equipment has been tested and found to comply with the limits for a Class B digital devices, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user encouraged to try correct the interference by one of more the following measures:*

- *Reorient or relocate the receiving antenna*
- *Increase the separation between the equipment and receiver*
- *Connect the equipment into an outlet on a circuit different from that to which the receiver is connected*
- *Consult the dealer or an experienced radio/TV technician for help.*

**Warning:** Changes or modifications not expressly approved by LEEDS Electronic Engineering Ltd. could void the user's authority to operate the equipment.

## **IX. Specifications**

### **Control Unit**

Type	Microprocessor based cordless control unit
Housing	ABS
Zones	5 alarm zones (2 cordless plus tamper, fire and panic)
Entry/Exit Delay	30 seconds
Siren Duration	3 minutes
Classification	System conforms to British Standard BS6799 class III
Radio System	433M Hz AM, jamming detection
External Speaker O/P	12V dc
Power Supply	Suitable A/C to D/C adapter provided
Backup battery	9V size alkaline battery
Power Consumption	0.1W (Standby), 1.1W (Alarm)

### **Cordless Movement Detector (PIR)**

Type	Passive Infrared Pyroelectric sensor
Housing	ABS
LED	Trigger indication
Sound	Short beep indicates low battery
Mounting height	1.8 to 2M
Detection range	up to 12M
Power Supply	9V size alkaline battery

### **Cordless Door/Window Detector (MS)**

Type	Magnetic switch with external wired contacts option
Housing	ABS
LED	Trigger indication
Sound	Short beep indicates low battery
Power Supply	9V size alkaline battery