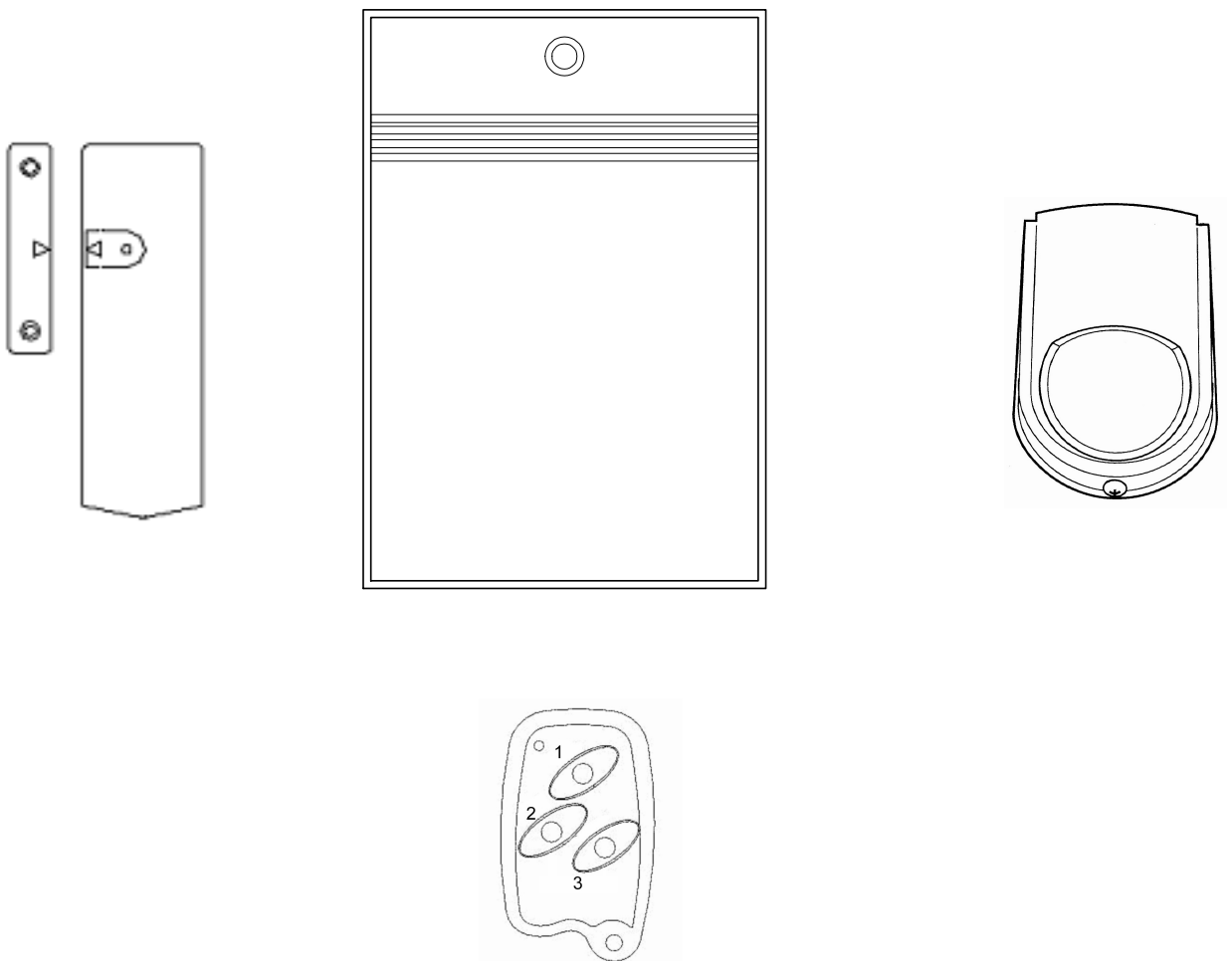


ADVANCED MULTIZONE WIRELESS SECURITY SYSTEM

MODEL NO. LS15C4x



LS15C4 x Wireless Converter Kit

The Wireless Converter Kit consists of a converter and several wireless detectors. The converter may be connected to a hardwire control panel and act as a wireless extension of the security system. The 8-bit dip-switch code should be set to the same code for all the detectors and the converter. There are no limits on the number of detectors to be used but the maximum number of zone outputs is 4.

Converter

1. Set the code on the 8-bit dip-switch.
2. The zones could be set as either “open” or “closed” by positioning the corresponding jumper to the appropriate position, as shown in Illustration 1 and 2.

ZONE	Corresponding Jumper #
1	J8
2	J9
3	J10
4	J11

Illustration 1.

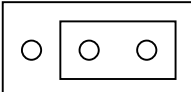
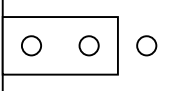
Jumper Position	Normal State	Alarm State	Example
OPEN J8 	NC (closed)	OPEN	J8 (Zone 1) set as NC.
OPEN J9 	NO (open)	CLOSED	J9 (Zone 2) set as NO.

Illustration 2. Example of Jumper Position

3. Connect the ‘-12V+’ connector on the converter to the DC output on the control panel.
4. Connect the 4 zone connectors on the converter to zone inputs on the control panel. User may decide which zone input is appropriate.
5. Connect the “Tamper” connectors on the converter to the tamper input on the control panel.
6. If a detector is triggered and then signals the converter, a led light corresponding to the zone of the signaling detector will turn on. Refer to Illustration 3.
7. After the detector signals the converter, the corresponding zone on the converter will switch from open to close, or close to open - depending on the original setting of the zone – for 2 seconds to inform the control panel.
8. If the tamper on the converter is triggered, the tamper connector will open to inform the control panel.

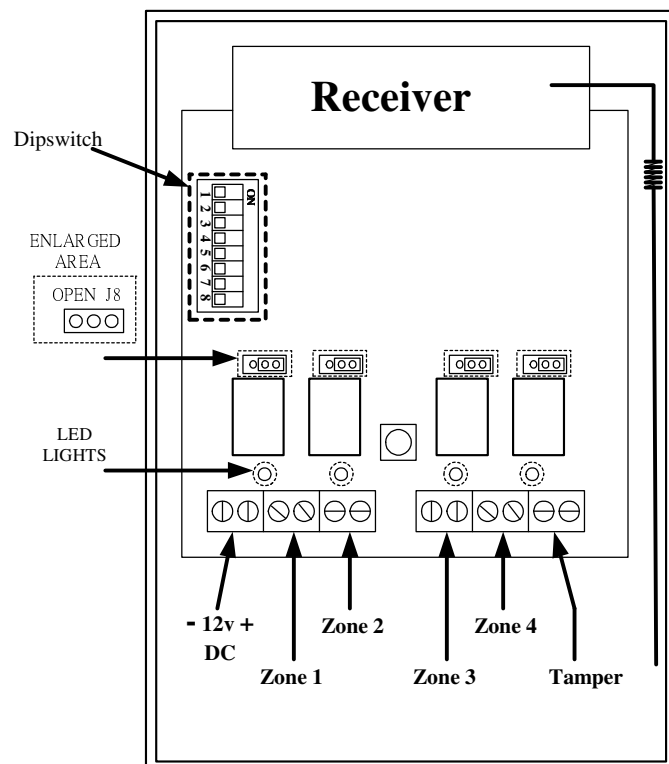


Illustration 3

Wireless Magnetic Contact LS1501x, Wireless PIR LS1500x

1. Set the code on the 8-bit dip-switch to the same code as on the converter. Refer to Illustration 5 and Illustration 7.
2. Select the zone number of the transmitter by a jumper (Z1-Z4), as shown in Illustration 4 & Illustration 6.
3. Install a 9V alkaline battery.
4. With the 9V alkaline battery installed,
 - a) For Magnetic Contact LS1501x, if it is triggered, a signal will be transmitted to the corresponding zone on the converter.
 - b) For Wireless PIR LS1500x, it will automatically send a signal to the corresponding zone on the converter within 10 seconds. Then it will go into a 15 minutes test mode before going into normal detection mode. During test mode, the PIR will not enter “Sleep” condition (*), and a signal will be transmitted to the corresponding zone on the converter every time the PIR is triggered.

* To extend the battery life, in normal detection mode, wireless PIR LS1500x is designed to detect once only before entering a “Sleep” condition for around two minutes during which the unit will not trigger. Any movement seen by the PIR during this period causes “Sleep” condition to be extended by a further two minutes approximately.

Low battery condition of Wireless Magnetic Contact LS1501, Wireless PIR LS1500

When the detector (LS1501x Magnetic Contact / LS1500x PIR) is working in a low battery condition, a short beep sound will be generated when the detector is triggered each time. Users should replace the battery of the detector.

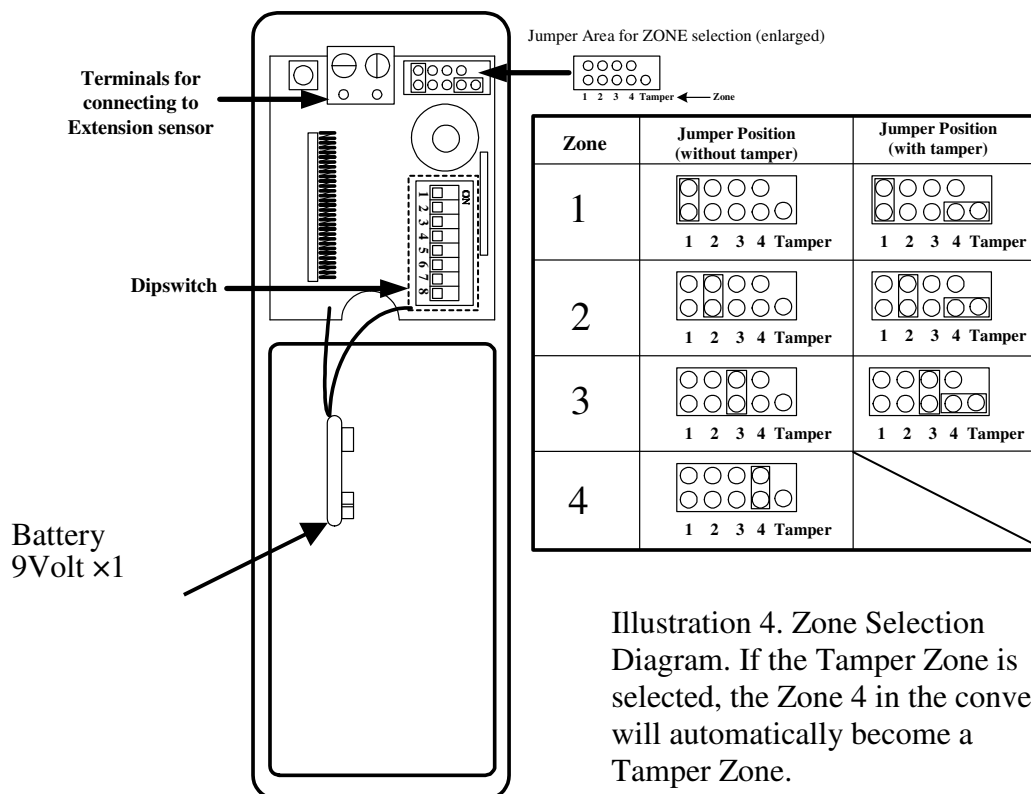


Illustration 5. Magnetic Contact LS1501xPCB Layout to show Dip Switch & Zone selection Jumpers

Illustration 4. Zone Selection Diagram. If the Tamper Zone is selected, the Zone 4 in the converter will automatically become a Tamper Zone.

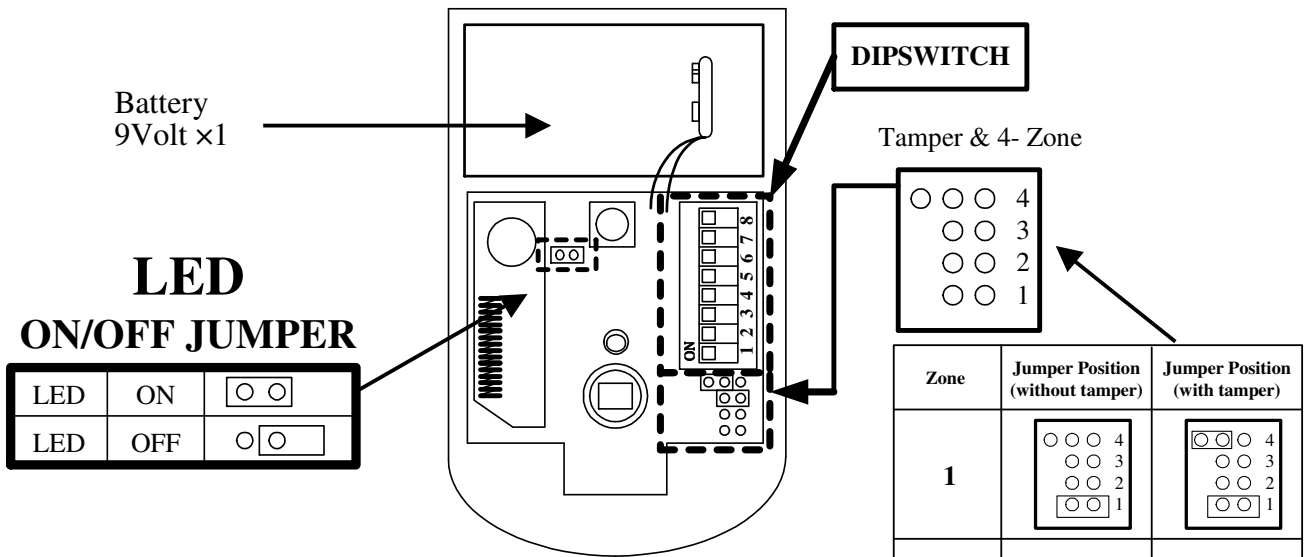


Figure 7. LS1500x Wireless PIR PCB Layout to show Dip Switch & Zone selection Jumpers

Zone	Jumper Position (without tamper)	Jumper Position (with tamper)
1	<pre> ○ ○ ○ 4 ○ ○ 3 ○ ○ 2 □ ○ 1 </pre>	<pre> □ ○ ○ 4 ○ ○ 3 ○ ○ 2 □ ○ 1 </pre>
2	<pre> ○ ○ ○ 4 ○ ○ 3 □ ○ 2 ○ ○ 1 </pre>	<pre> □ ○ ○ 4 ○ ○ 3 □ ○ 2 ○ ○ 1 </pre>
3	<pre> ○ ○ ○ 4 □ ○ 3 ○ ○ 2 ○ ○ 1 </pre>	<pre> □ ○ ○ 4 □ ○ 3 ○ ○ 2 ○ ○ 1 </pre>
4	<pre> ○ □ ○ 4 ○ ○ 3 ○ ○ 2 ○ ○ 1 </pre>	

Illustration 6. Zone Selection Diagram. If the Tamper Zone is selected, the Zone 4 in the converter will automatically become a Tamper Zone.

Wireless Remote Key LS1506x

1. Set the code on the 8-bit dip-switch to the same code as on the converter. Refer to Illustration 8.
2. Install CR2032 3V lithium battery.
3. With the battery installed, if the button on the Wireless Remote Key LS1506x is pressed, a signal will be transmitted to the corresponding zone on the converter.

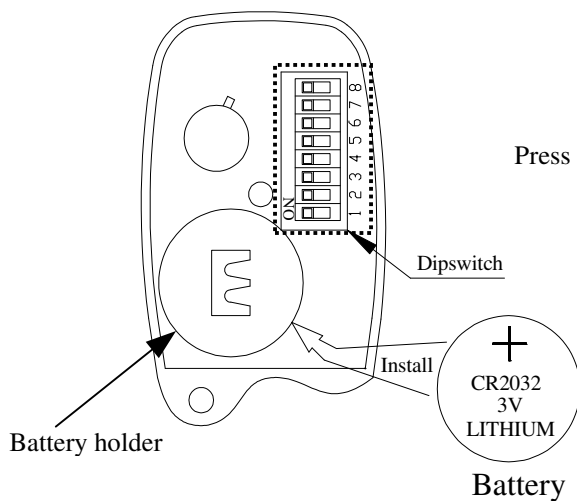


Illustration 8. LS1506x Wireless Remote Key PCB Layout to show Dip Switch

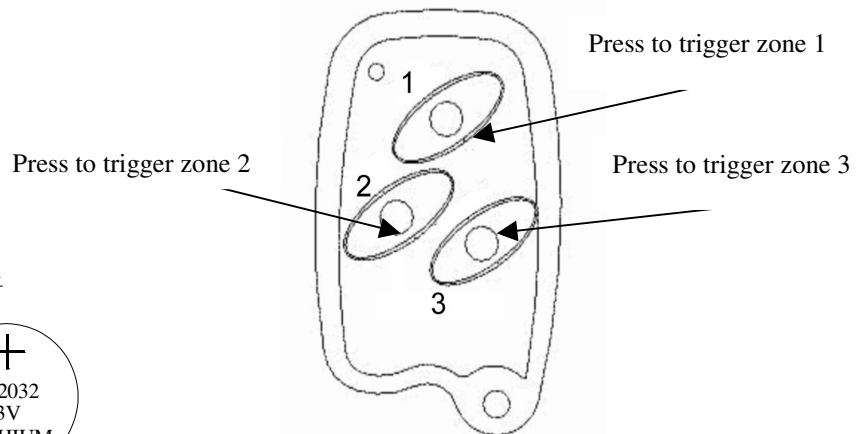


Illustration 9. Wireless Remote Key LS1506x