



TVRDS CONTROLLER

MAY 2018



Looking for a quick setup up guide?

There is lots of useful information in this book, but if all you are after is quick set up look for the following headings in this book

- 1) Setting limits
- 2) Powering the board up
- 3) Pairing the bottom slat transmitter
- 4) Adding a transmitter

Setting limits

- A test lead should be used to set the limits before wiring in the receiver!!!
- Connect motor test lead to motor cable
- Use test lead to set spring tension
- Set limits
- Problem solving



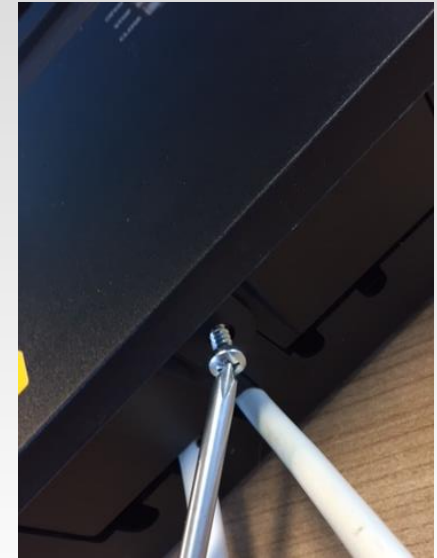
Front cover diagnostic



1. Photo beam activation
2. Bottom slat transmitter fault
3. Stop signal
4. Low battery
5. Panel locked out
6. Alarm activated
7. Power indicator and mode activation

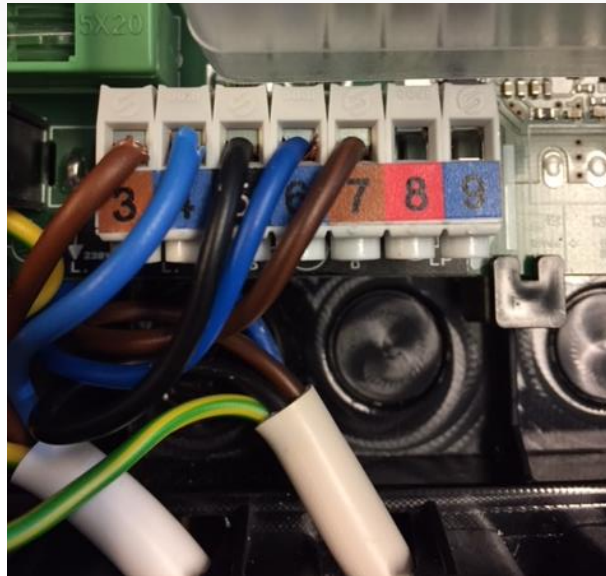
Removing the light cover

- Allows access to the boards
- Remove the small screw at the base the unit
- Lift upwards
- Remove the black plastic from the built in LED light when ready to commission the door

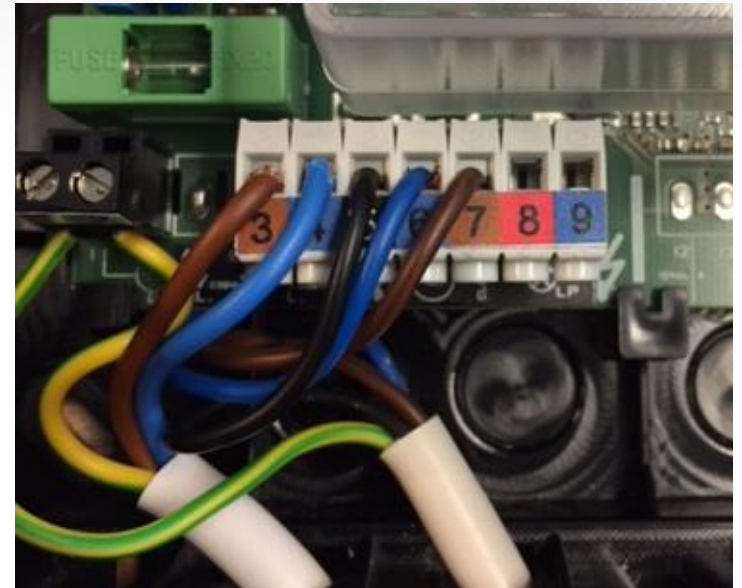


Powering the board up !

Left hand motor

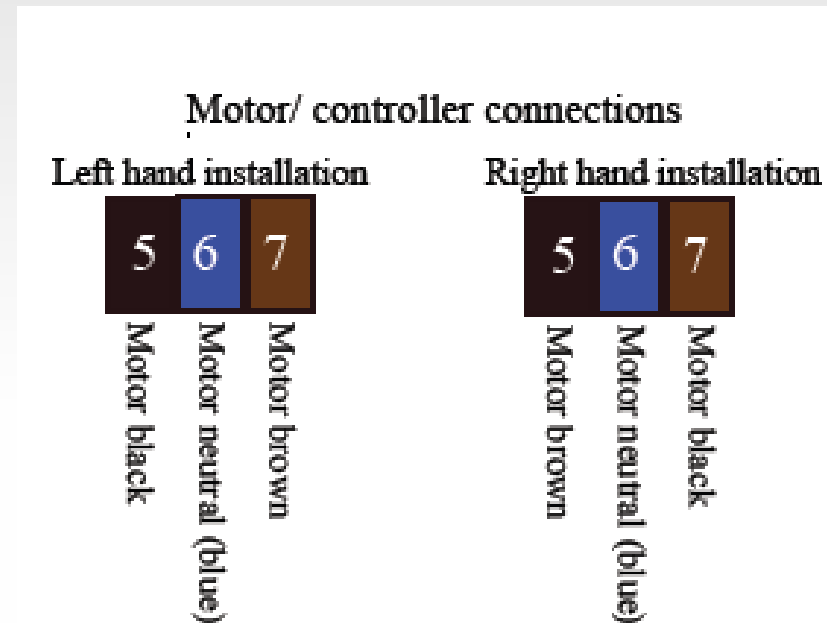


Right hand motor

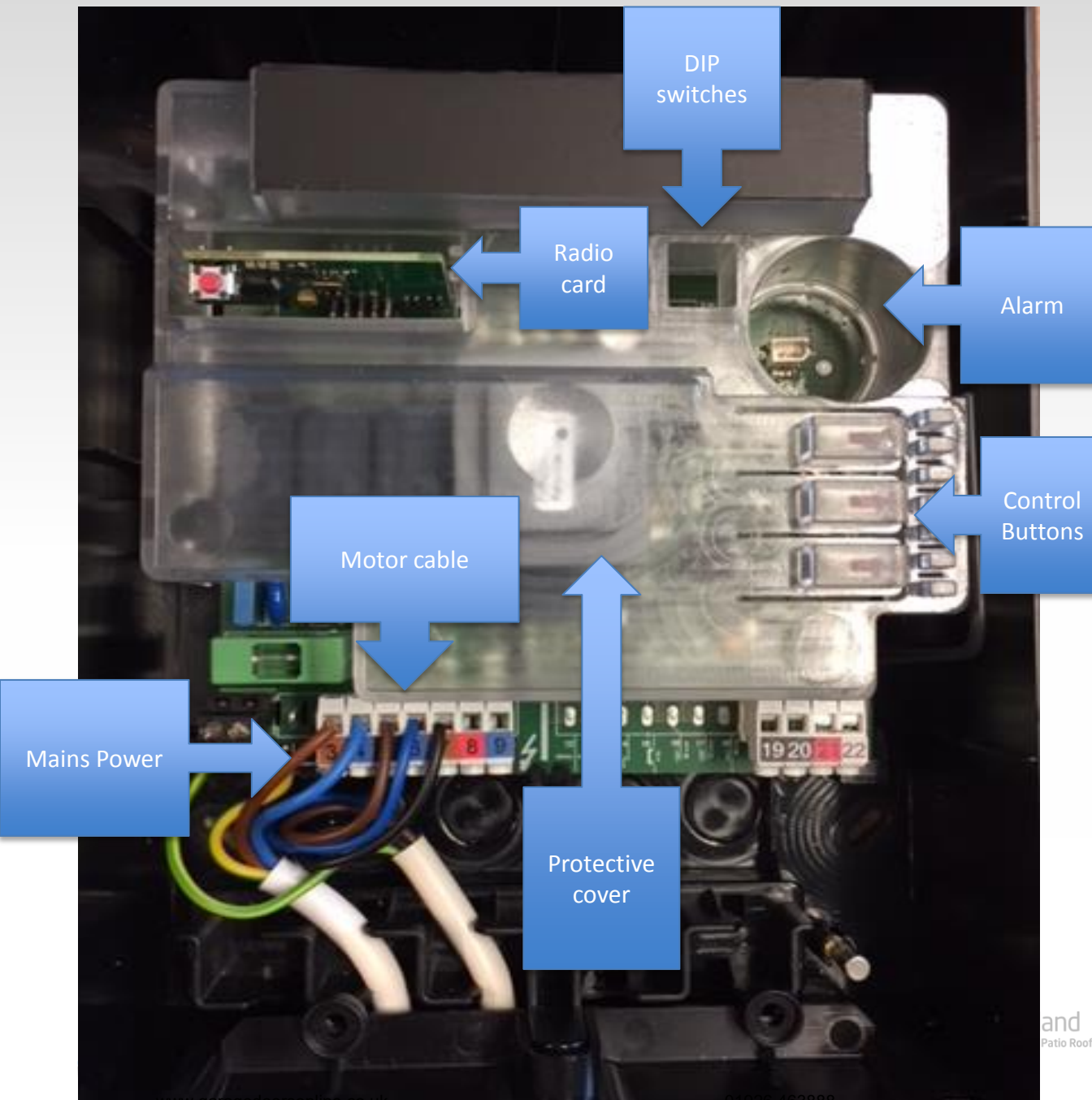


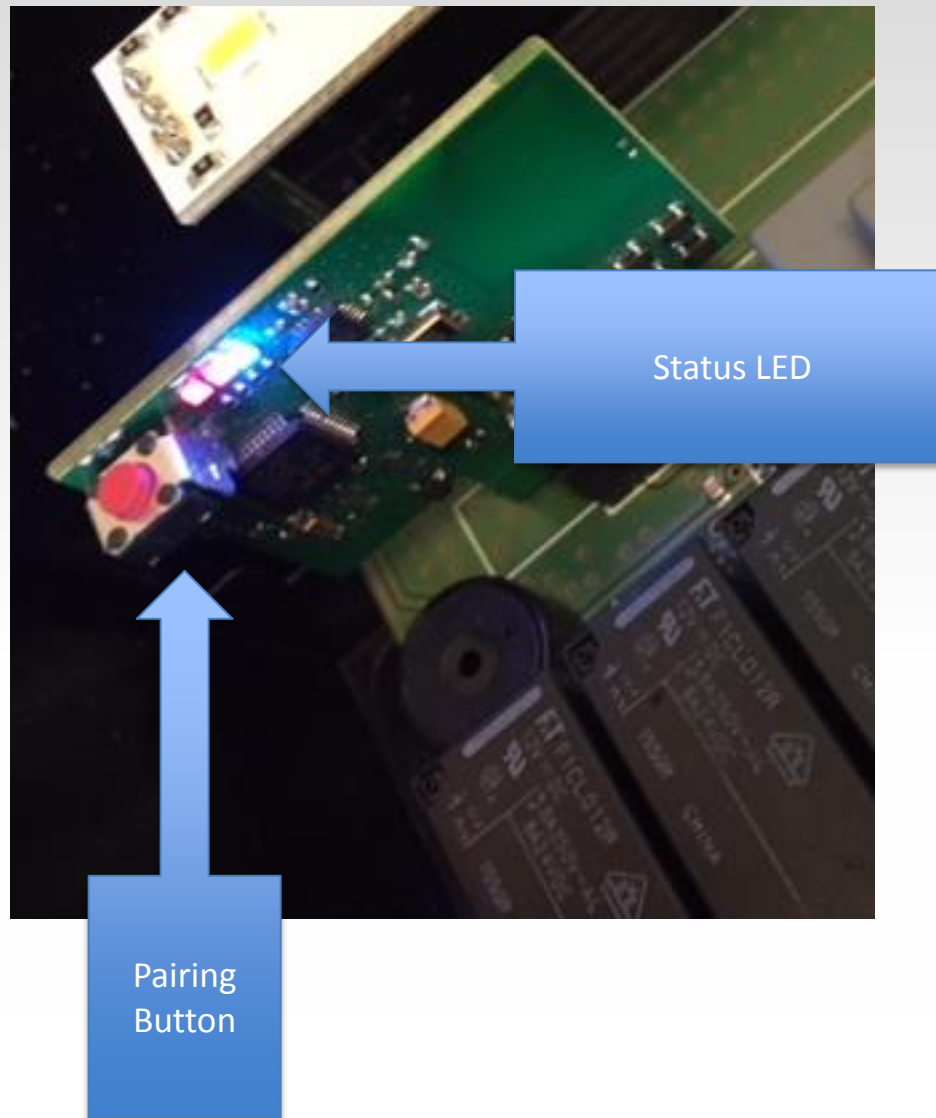
Powering the board up

- Once you have set your limits with the test lead connect the motor cable to the receiver
- NOTE : First operation of the garage door is always in the up direction
- If the door is travelling in the wrong direction - **Black** and **Brown** swap them round !



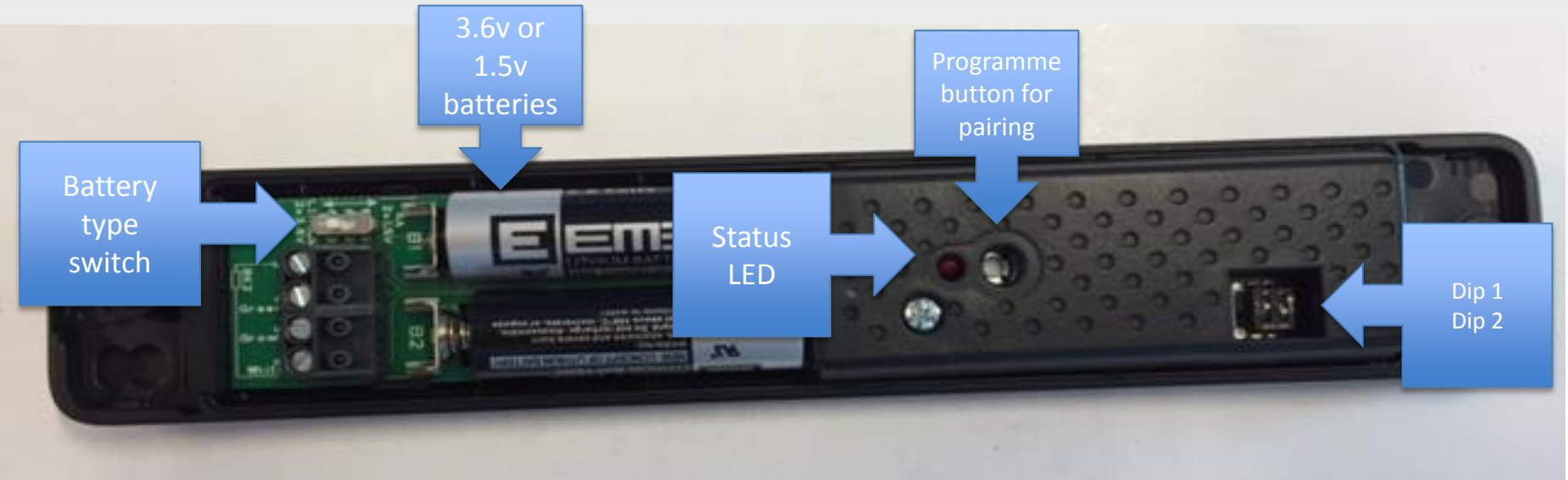
Knowing your way around the Receiver





Radio card

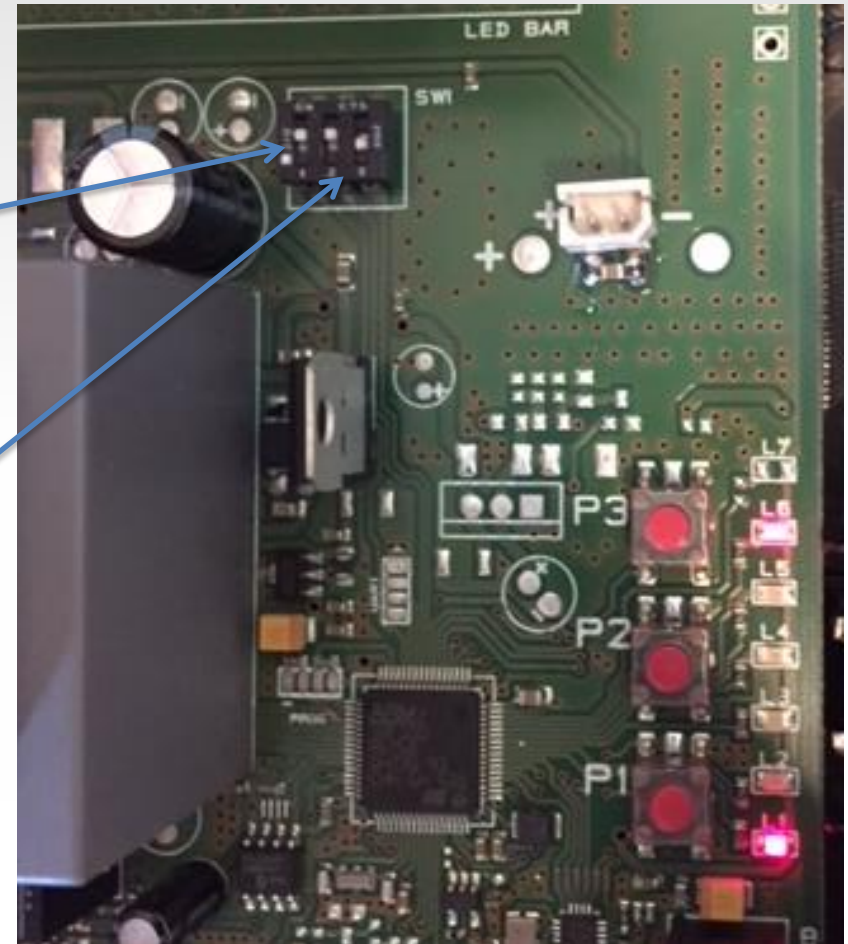
New 3.6 volt & 1.5volt bottom Slat Transmitter



- Ensure that you have chosen the correct battery and switch setting.
- Pairing the BST to the Radio card must be done when the front cover is fitted.

Dipswitches on receiver

- The receiver has three dip switches
- Dip switch 1 and 2 should always be on (in the up position)
- Dip switch 3 is user settable (auto return time on/off).



What do the dipswitches do ?

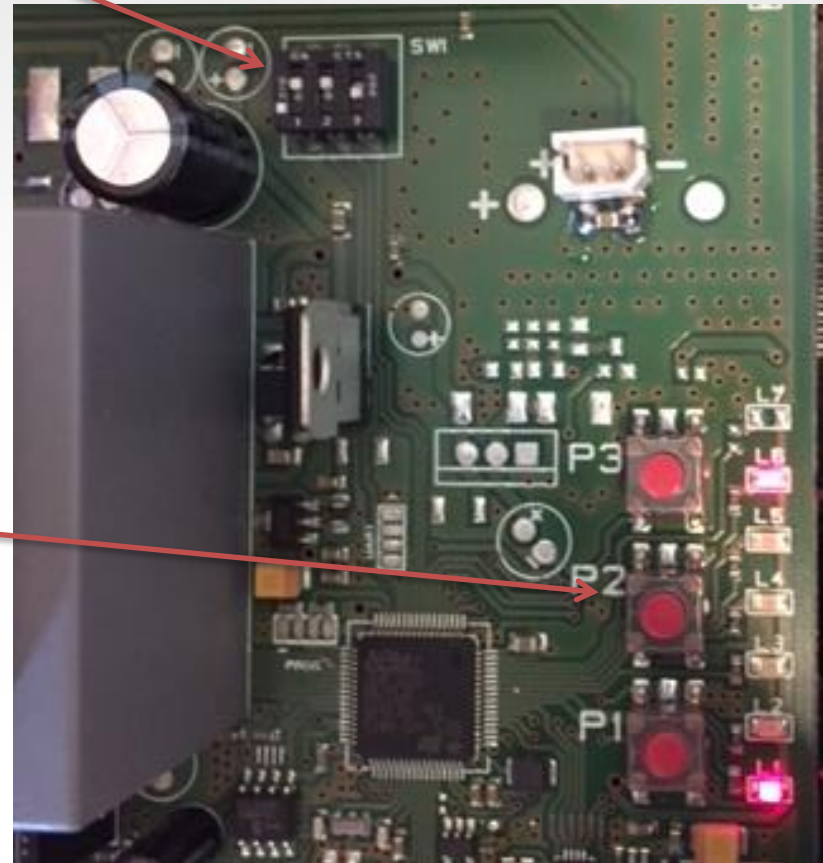
- Dip switch 1

This feature is used to disable the safety edge, to be used in exceptional circumstances only !

- On = wireless edge
- Off = wired edge
- Switch power off
- Switch power back on
- Move dipswitch to required position
- Press and hold the “P2” button for 5 seconds to confirm the setting

Verification

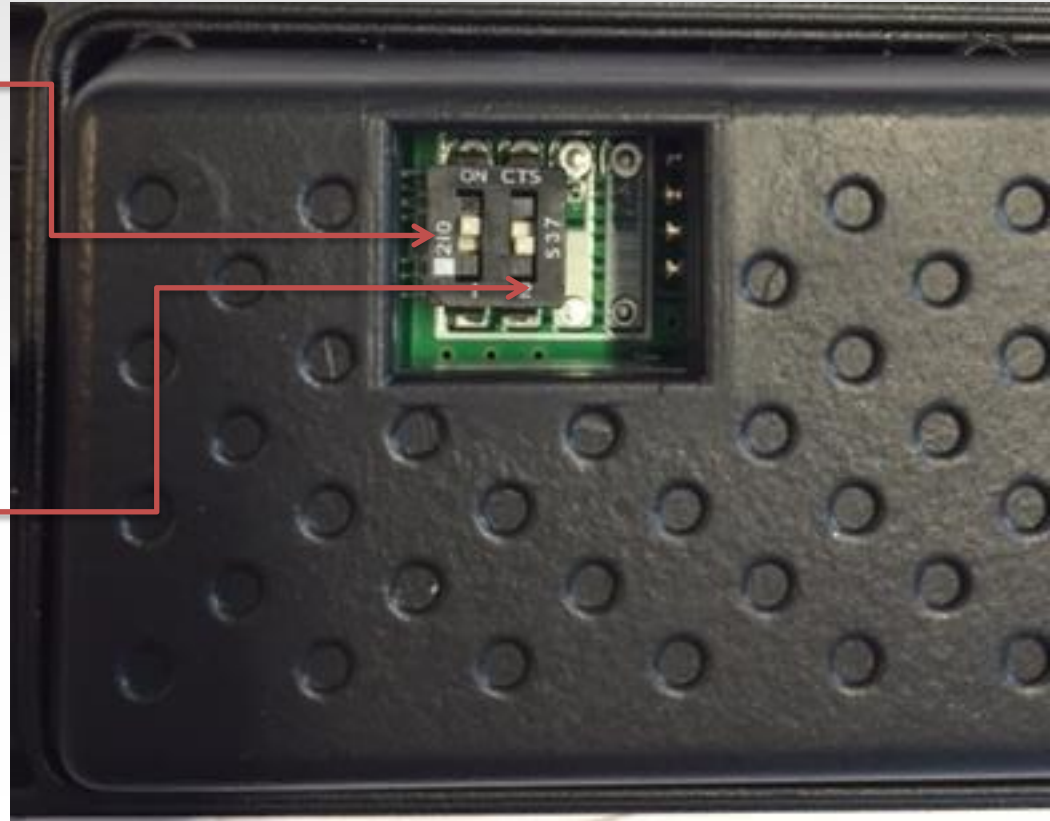
- 6 beeps = programmed for wired edge
- 7 beeps = programmed for wireless



Dipswitches on Bottom slat transmitter

- Dipswitch 1 should ALWAYS be on

- Dip switch 2
- **On** = System test (times out after 30 secs)



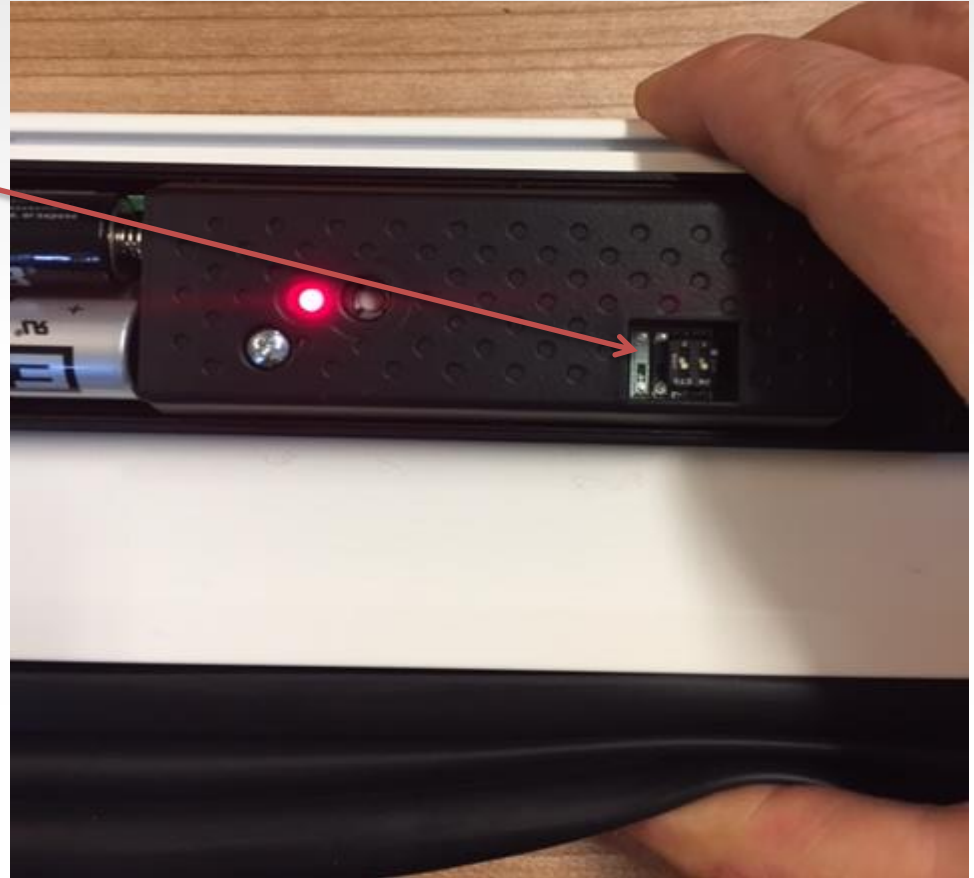
Testing the bottom slat transmitter and wiring

The bottom edge can be tested to confirm if the wiring and bottom slat transmitter are functioning correctly.

- Put dipswitch 2 on
- Within 30 seconds squeeze firmly the bottom edge rubber
- The red light will activate upon each squeeze
- Return dipswitch 2 to the off position

Important

- This function will time out after 30 seconds so if the time has elapsed put the switch off and on again



So.....

Board has power !

Limits have been set!

Now what?

- 2 very simple tasks!

1) Pair the bottom slat transmitter to the receiver

2) Code in your transmitters

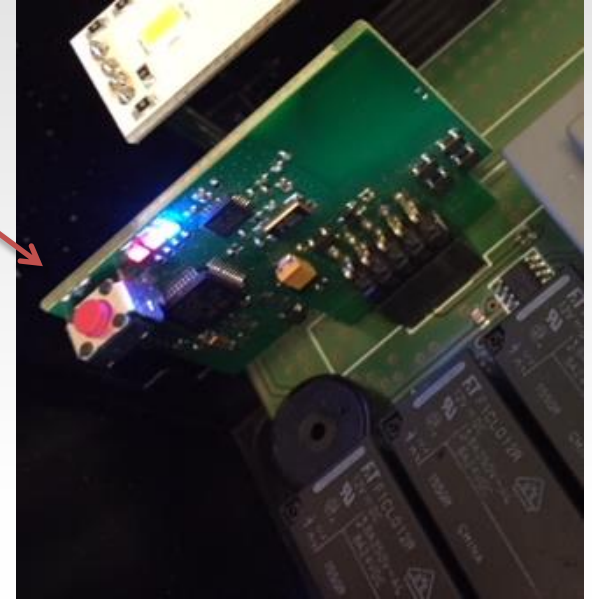
Pairing the bottom slat transmitter

Action

- Press “P” button on radio card for 2 seconds
- Press “P” button on bottom slat transmitter for 2 seconds

Verification

. Red light on radio card will start to flash



To check if its paired

Press and hold the “P” button on BST

Solid red LED on the BST = Paired

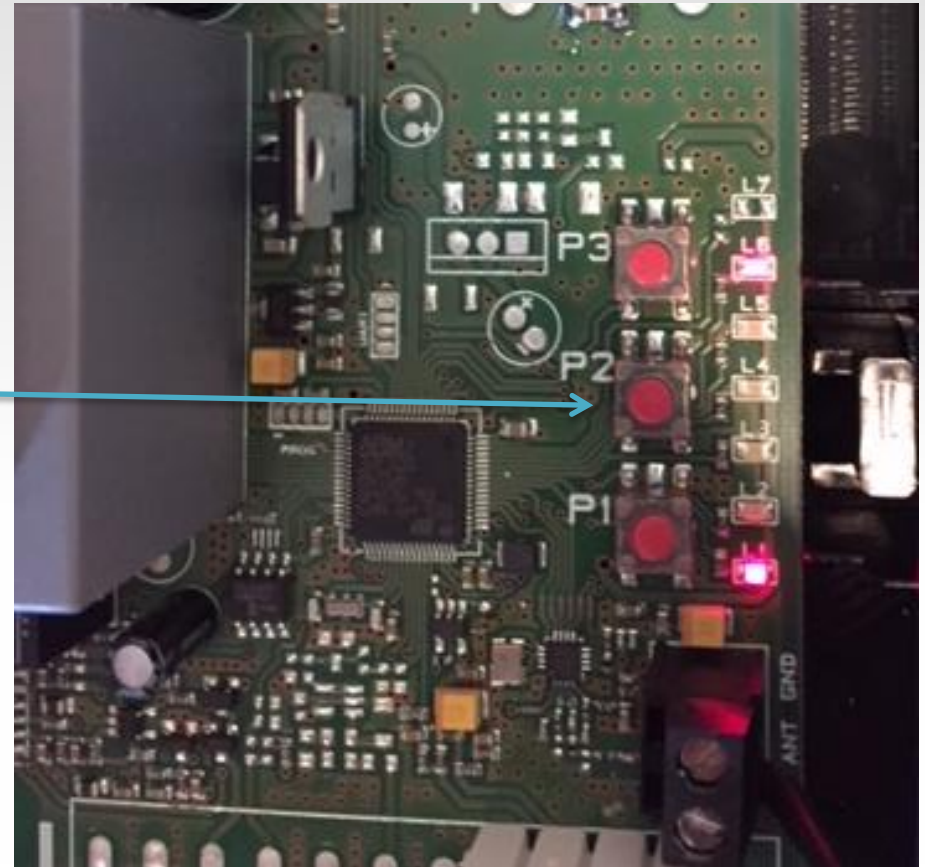
Flashing LED on the BST = Not paired

(leave cover on the BST while pairing)



Entering program mode

- Press the P2 button to enter the programming mode.
- Press 5 times and hold on the 5th
- Release after the beep and the LED starts to flash



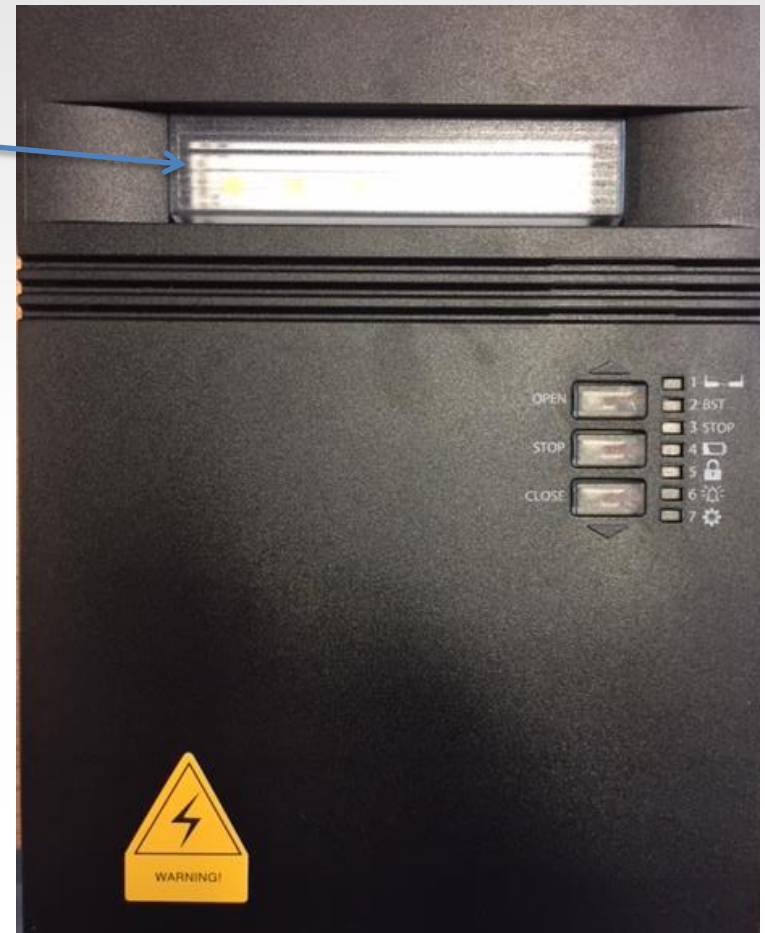
The P2 Button modes!

- Mode 1 - **1 press** = Remote operates as up/stop/down all on one button
- Mode 2 - **2 presses** = Remote operates as up on one button/down on another button
- Mode 3 - **3 Presses** = Allows a channel on the remote to toggle lights on and off
- Mode 4 - **4 presses** = Deletes a single channel/button
- Mode 5 - **5 presses** = Deletes all channels/buttons
- Mode 6 - **6 Presses** = Codes in a 4 channel remote as up on one button, down on another plus adds a light button and stop button
- Mode 7 - **7 presses** = Used to code in a bi-directional remote control Hand set
- Mode 8 - **8 presses** = Used to code in an alarm
- Mode 14 - **14 presses** = used to switch on bi-directional

Replacing the cover



Remove black
protective strip
from the LED
light

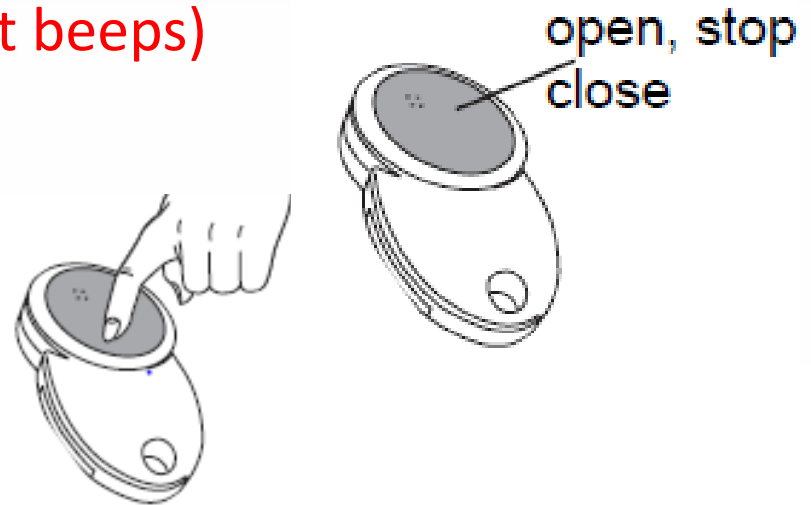
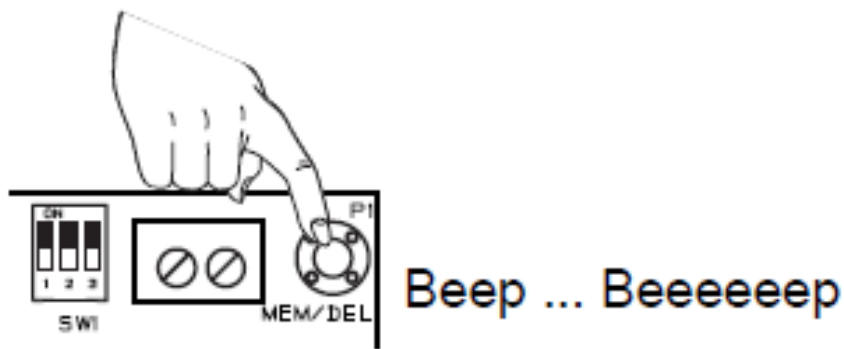


Adding a transmitter

- Enter the programming mode.. (press P2 5 times and hold)
- Mode_1 - Up/stop/down

Action

- Press “P2” button on receiver once and hold (long beep)
- Press button on transmitter (short beeps)

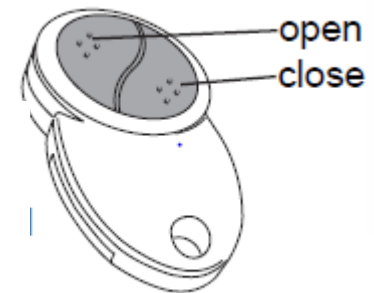
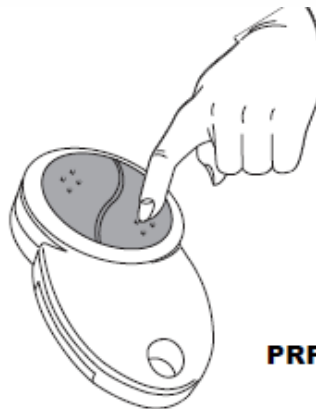
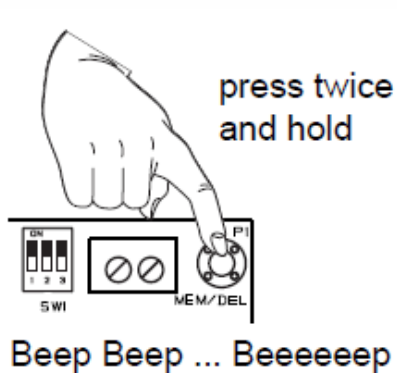


Adding a transmitter

- Enter the programming mode (press P2 5 times and hold)
- Mode 2 - Up on one button/Down on another button

Action

- Press “P2” button on receiver twice and hold on the second press (long beep)
- Press button on transmitter (short beeps)

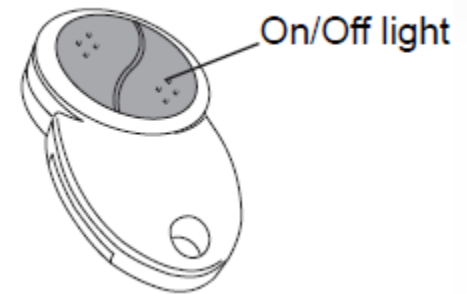
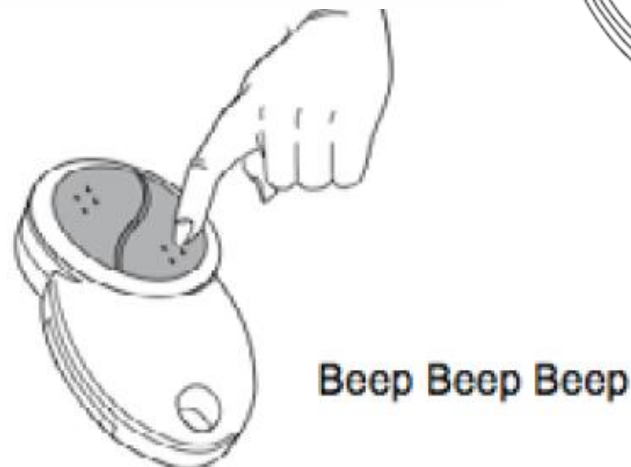
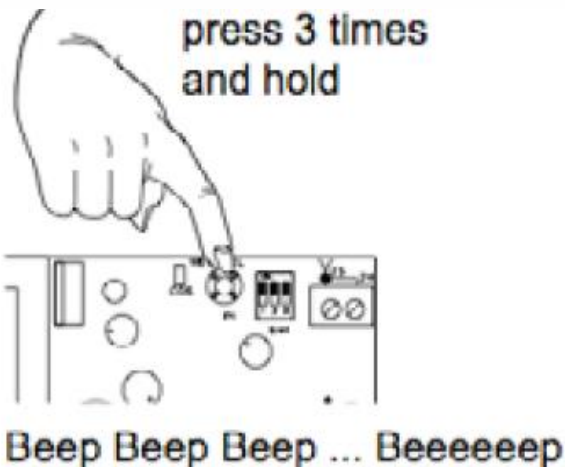


Programming the light

- Enter the programming mode (press P2 5 times and hold)
- Mode 3 – Toggle light on and off

Action

- Press “P2” button on receiver three times and hold
- Press button on transmitter (short beeps)

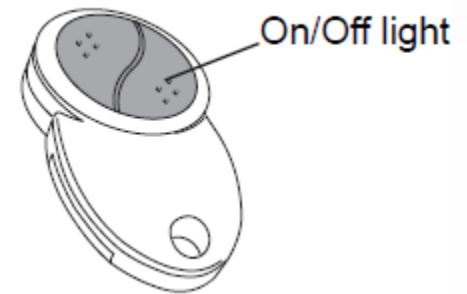
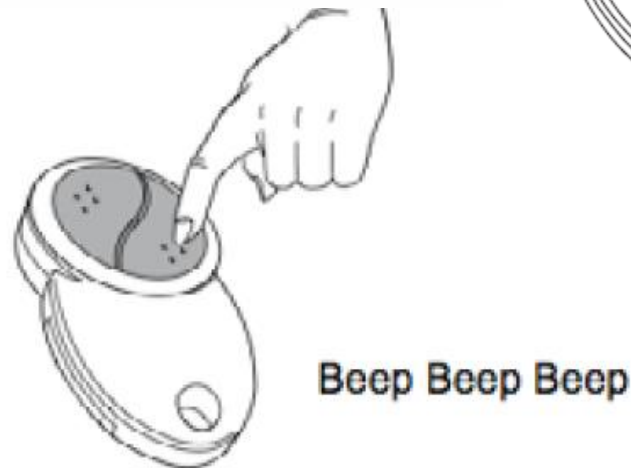
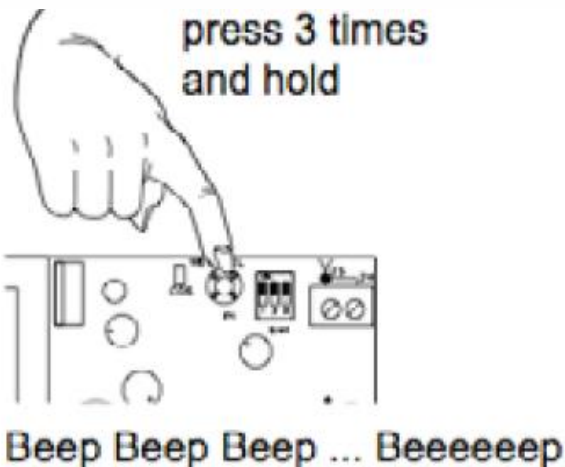


Programming the light

- Enter the programming mode (press P2 5 times and hold)
- Mode 3 – Toggle light on and off

Action

- Press “P2” button on receiver three times and hold
- Press button on transmitter (short beeps)

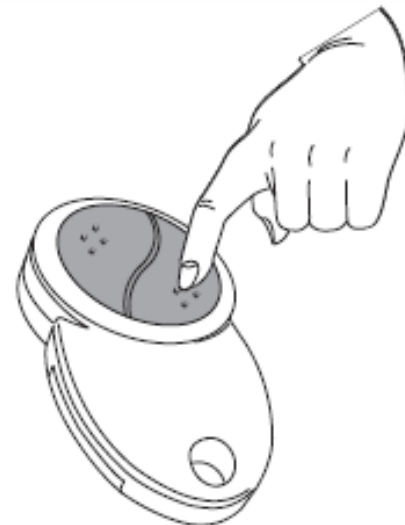
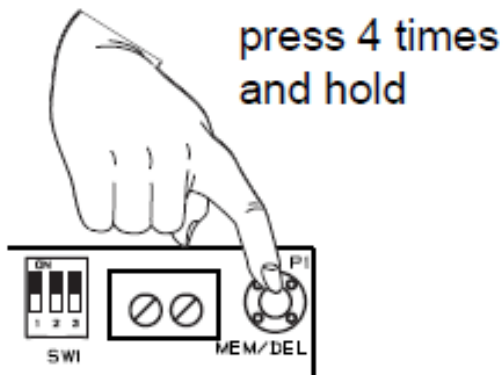


Deleting a channel

- Enter the programming mode (press P2 5 times and hold)
- Mode 4 – Delete a single channel

Action

- Press “P2” button on receiver four times and hold on the fourth press (long slow beeps)
- Press relevant button on transmitter to delete that channel



Beep Beep BeepBeep... ..Beep... ..Beep

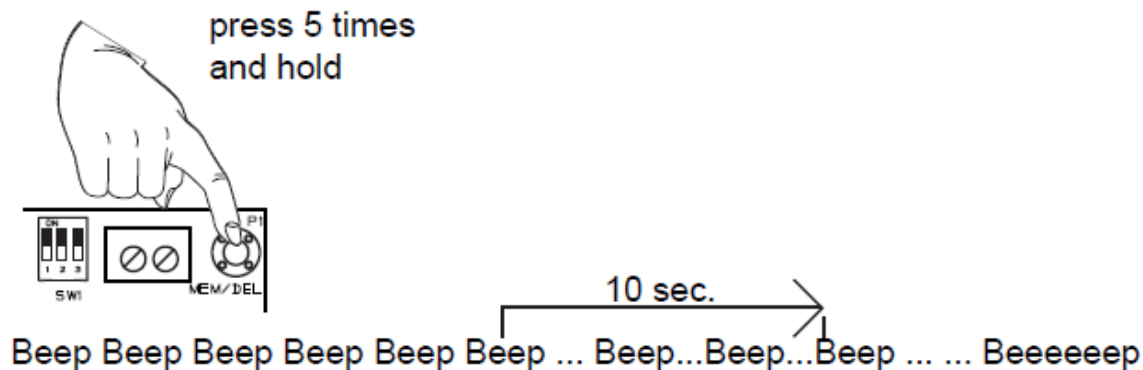
PRP: Beeeeeeep

Deleting all channels

- Enter the programming mode (press P2 5 times and hold)
- Mode 5 – Delete all channel/buttons

Action

- Press “P2” button on receiver five times and hold on the fifth press (short beeps for 8 seconds long beep for 2 seconds)
- Release your finger after the long solid beep stops (approx 10 secs)

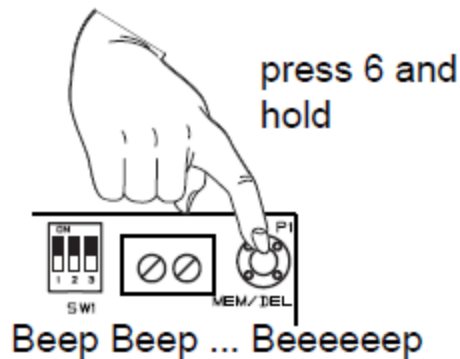


Adding a transmitter

- Enter the programming mode (press P2 5 times and hold)
- Mode 6 – Quick set up for a 4 channel remote

Action

- Press “P2” button on receiver six times and hold on the sixth press (long beep)
- Press relevant button on transmitter (long solid beep)



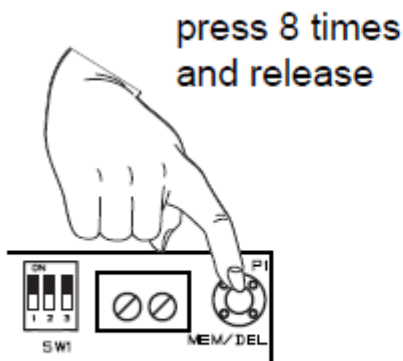


Adding an alarm

- Enter the programming mode (press P2 5 times and hold)
- Mode 8 – Adding an alarm to the system

Action

- Press “P2” button on receiver eight times and hold on the eighth press (long beep)
- Tap the wireless shock sensor against a hard surface before

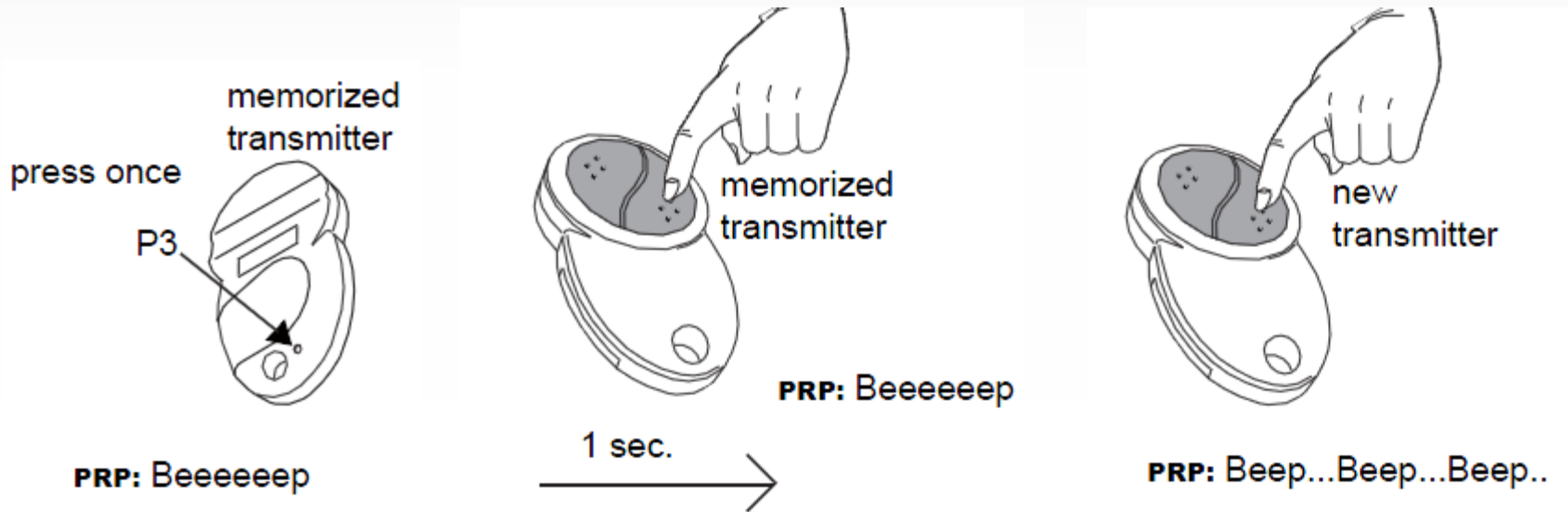


Beep Beep Beep Beep Beep Beep... Beep...

Programing one remote from another

Action

- Press the back of the transmitter "P3" with a paperclip once, then release (long beep)
- Then press the channel on the front of the same transmitter (long beep)
- Now press a button on your new and unused transmitter (short beeps)

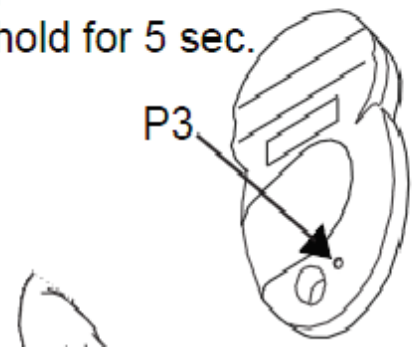


Programing Auto close

Action

- Put Dip switch **3** on (short beep)
- Switch the power off and back on again
- Within **30** seconds start the following sequence
- Press and hold the “P3” button on the back of the transmitter until it beeps
- Now press it **8** times in quick succession (8 short beeps one on each press)
- Wait for **2** beeps
- Press “P3” again to start the timer (single beep)
- Wait your required time (min 5 secs, max 90 sec)
- Press “P3” to stop the timer (single beep)
- Note : The door needs to be fully open in order to autoclose

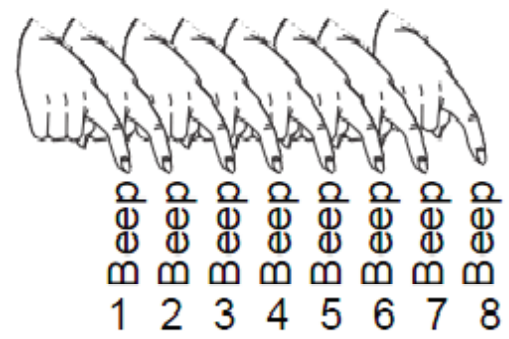
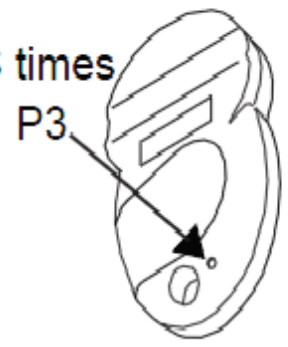
hold for 5 sec.



5 sec.

Beep

press 8 times



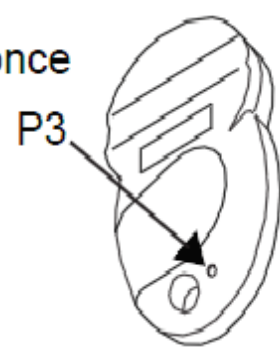
wait 5 sec.

Beep 1 Beep 2

2- Press the push button P3 of the transmitter, the buzzer will sound one beep, the time to be memorised starts.

3- After the desired time press again the push button P3 of the transmitter in order to exit and memorise the re-closing time.

press once

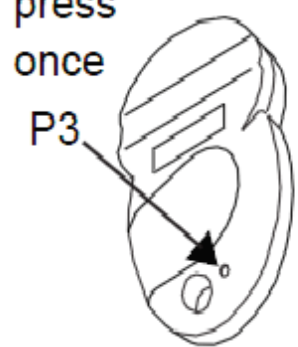


start time count



PRP: Beep

press once



Stop and memorize the time



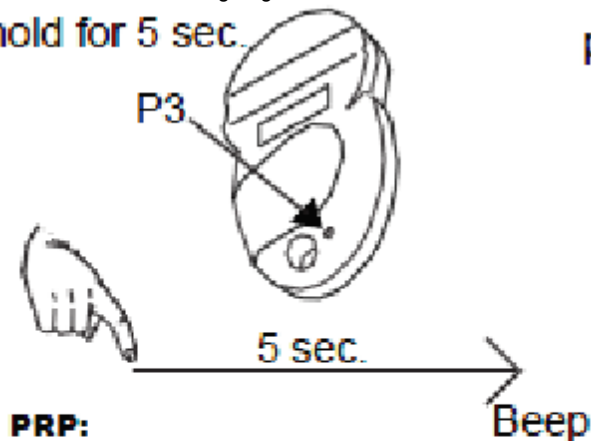
PRP: Beep

Programing light timer

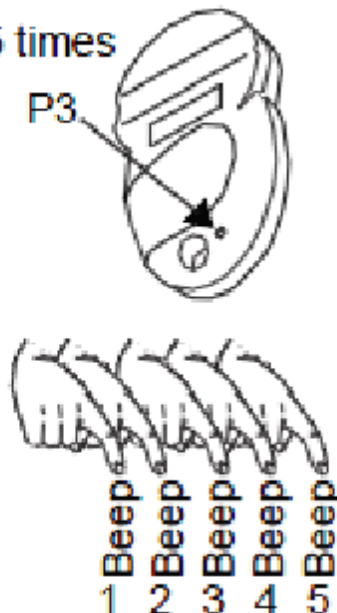
Action

- Switch the power off and back on again
- Within 30 seconds start the following sequence
- Press and hold the “P3” button on the back of the transmitter until it beeps
- Now press it 5 times in quick succession (5 short beeps, one on each press)
- Wait for 3 beeps
- Press “P3” again to start the timer (single beep)
- Wait your required time (min 60secs, max 12 hrs)
- Press “P3” to stop the timer (light switches off)

hold for 5 sec.



press 5 times



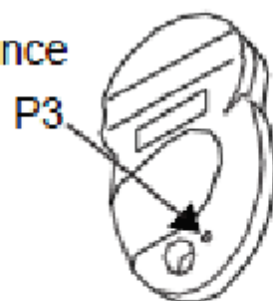
wait 5 sec.

Beep 1 Beep 2 Beep 3

2- Press the push button P3 of the transmitter, the buzzer will sound one beep and the courtesy light turns on, the time to be memorised starts.

3- After the desired time press again the push button P3 of the transmitter in order to exit and memorise the courtesy light time, the light turns off.

press once

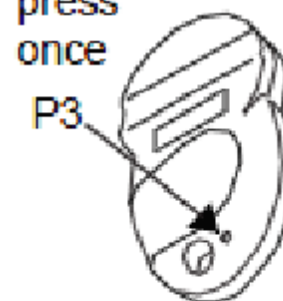


start time count



PRP: Beep

press once



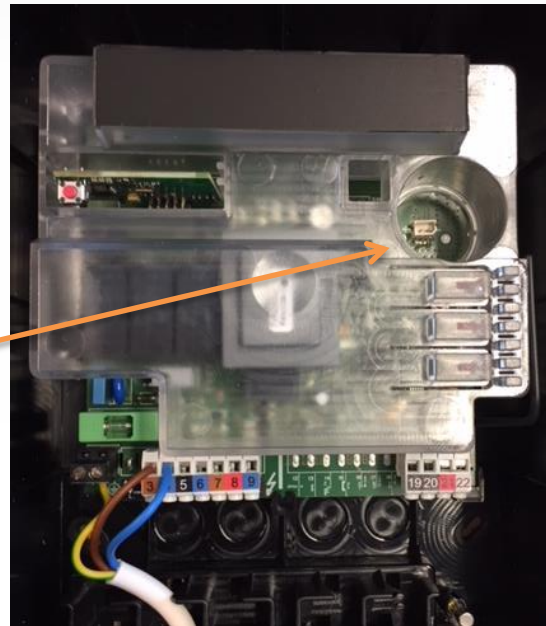
Stop and memorize the time



PRP: Beep

Connecting the alarm to the board

- The sounder will be provided separately to the receiver
- Plug the alarm modular into the terminal marked “alarm”

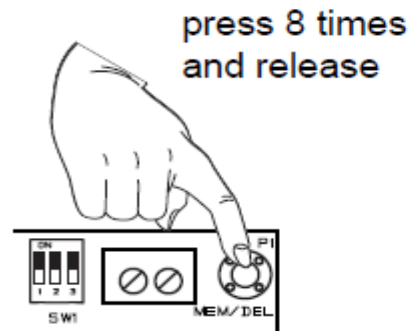


Adding an alarm

- Mode 8 – Adding an alarm to the system
- Enter the programming mode (press P2 5 times and hold)

Action

- Press “P2” button on receiver eight times and hold on the eighth press (long beep)
- Tap the wireless shock sensor against a hard surface before fitting to

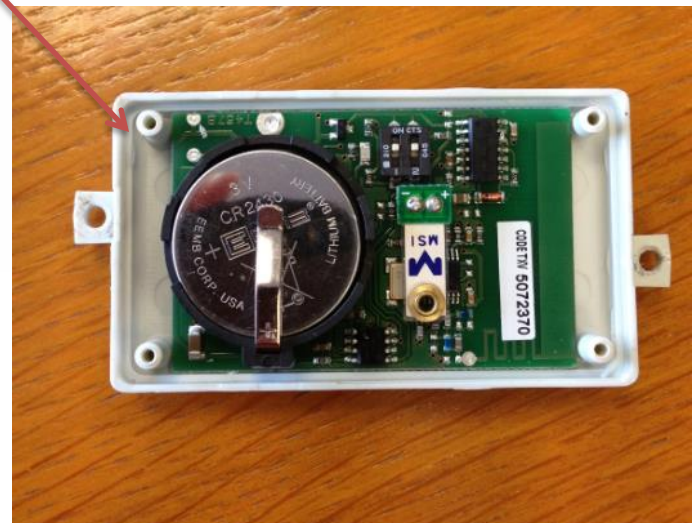


Beep Beep Beep Beep Beep Beep Beep... Beep...

Adding an alarm

- Attach the sensor on the bottom slat next to the CE label, not the center of the door.
- Set the sensitivity accordingly
- Insert the provided battery

DIP1	DIP2	Sensibility
Off	Off	High
On	Off	Medium
Off	On	Low
On	On	Low



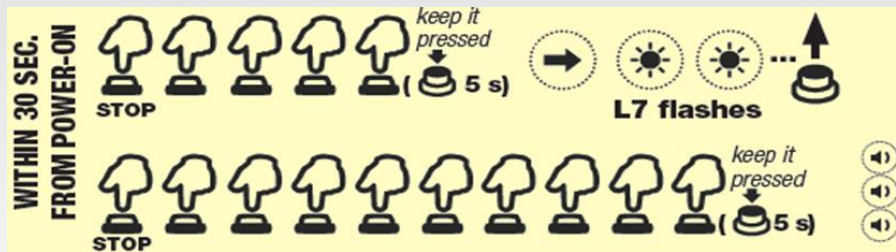
Exclusion of the safety edge

If the floor is not level you can exclude the bottom safety edge 50mm from the ground

- Power off power on and commence within 30 seconds
- Enter the programming mode (press P2 5 times and hold on the 5th)(beep and L7 led light flashes)
- Press P2 10 times and hold for 5 seconds
- Place a 50mm block on the floor
- Open the door completely (without stopping) and you will hear a beep when it hits the top limit.
- Close the door (without stopping) until it hits the block
- Open the door fully (without stopping)
- Remove the block
- Close door fully and check procedure has worked by putting and obstacle under the edge

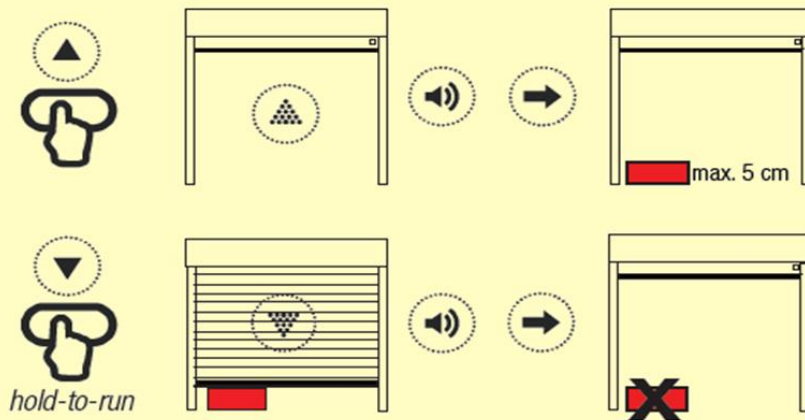
Exclusion will only work from the fully open position!!

Exclusion of the safety edge

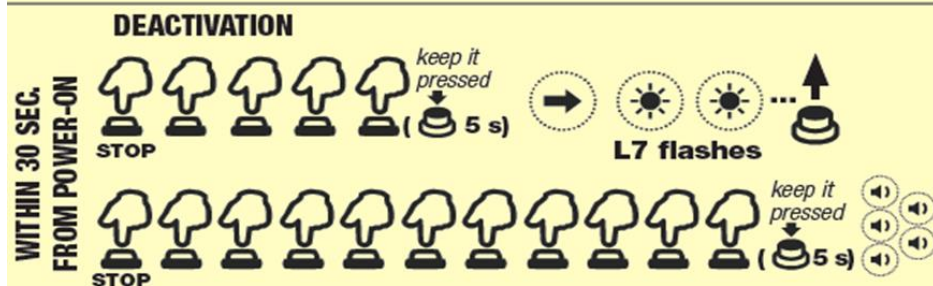


Press STOP button **five times** and keep it pressed for at least **5 seconds**. L7 starts **flashing**.

Press STOP button **ten times** and keep it pressed for **5 seconds**. The buzzer emits 3 beeps.



Open the door **completely** by means of a memorized transmitter. The buzzer emits a long beep when the upper limit switch is reached. Put on the floor, exactly under the door, a sturdy object not more than 5 cm high. Close the door (in **hold-to-run** mode), with **no interruption**. The door will stop at the obstacle and the control unit will make a long beep. Open the door **completely** and remove the object. Close the door to verify the correct application of the procedure.



Press STOP button **five times** and keep it pressed for at least **5 seconds**. L7 starts **flashing**.

Press STOP button **eleven times** and keep it pressed for **5 seconds**. The buzzer emits 5 beeps.

Programming keypad

Note

- The keypad operates off a 5 digit code
- Factory code is 12345
- To operate the door press the code and then number 1

Action

- Enter the programming mode (press P2 5 times and hold Press and hold)
- Enter the key pad code.
- Press the P2 button (mode 1 or mode 2)
- Press **1** on the keypad (series of short beeps)
- To program the light, press the “” button three times then press the “B” button on the keypad

Changing keypad code

Note

- The keypad operates off a 5 digit code
- Factory code is 12345

Action

- Remove the back cover
- Enter the factory code **12345**
- Press the white button on the back of the keypad
- Enter your new 5 digit code... long beep!
- Re enter your 5 digit code... longer beep!

Programming two doors/multichannel

Note

- All receivers and remotes are multichannel by default
- Enter the programming mode (press P2 5 times and hold)

Action

- Press the “P2” button on door A, press the relevant button on the transmitter
- Press the “P2” button on door B, press a different button on the same the transmitter

Note

- It is best practice to have power to only one door at a time whilst coding in a multichannel application, this ensures that you do not accidentally code the remote to both doors

Activating holiday mode

This allows the user to disable the buttons on the front of the receiver

To lock

- Press and hold the “stop” button on the front of the receiver for 5 secs (beep) LED 5 will flash slowly to indicate that the unit is in holiday mode



To unlock

- Press and hold the “stop” button on the front of the receiver for 5 secs (beep)
- Now press the button on your remote control (beep)
- The door is now out of holiday mode



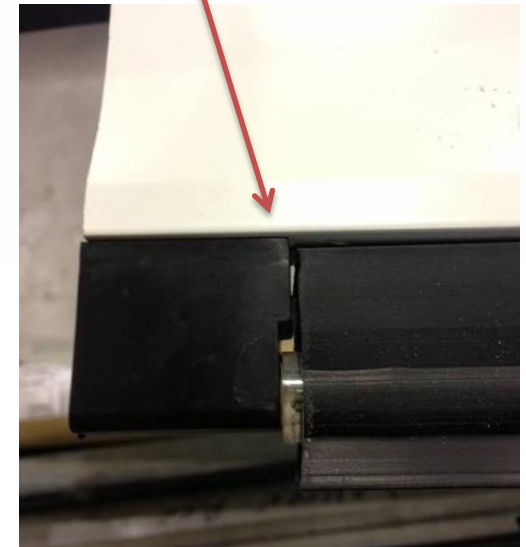
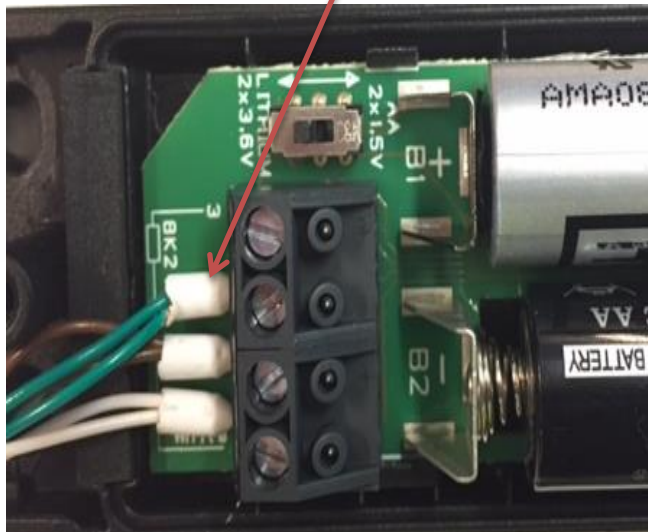
Troubleshooting – Beeps !

- **1 beep** - The sensor for the magnet system is set too high. Lower the sensor so that the magnet passes it just before the door hits the floor.
- **2 beeps** - Check that the motor is connected
 - Check that the wiring is correct
 - Check that both limits have been set
 - Reconnect the test lead, check the limits and repower the board

NOTE – The door can be used in hold to run by simply pressing and holding the operating button for 5 seconds

Troubleshooting – Beeps!

- **5 beeps**
 - Is the bottom slat transmitter (BST) correctly wired, check that the wires are securely in place and that the colors match the corresponding numbers
 - Make sure the batteries in the BST are located correctly, remove them and re-insert
 - Check dip switch 1 on bottom slat transmitter is set to on
 - Look for damage to the cables as they enter the bottom slat transmitter



Troubleshooting – Beeps !

.5 beeps

Press and hold the “p” button on the BST.
If the LED flashes check wiring.
Re-pair with Radio card.
Check optical eyes for damage.
Check for any water damage.

The LED should be solid!



Troubleshooting

- A series of short rapid beeps – Bottom slat transmitter batteries are going flat, Replace with 1.5 v or 3.6 v. Even when replaced the system will continue to beep for one minute whilst its establishes the integrity of the new batteries
- The door hits the floor and then retracts a few inches
 - The door is sensing imperfections in the floor, check that the floor is level, you may need to level the floor, pack out the nylon blocks in the end of the bottom slat or fit a supplied magnet
- No beeps and door is unresponsive – check link is present between terminals 21 and 22
 - Check that remotes that you are using are coded into the system

Notes