Installation Instructions

Thank you for purchasing the new Digitek G-Line 'Pro' Thatcham approved CAT 1 alarm system; this security system has been designed specifically for motorcycles. An additional Digitek G-Link garage/shed wireless 'PIR' can also be added to this system to protect your garage/shed contents providing the motorcycle is within 20meters of the PIR. When the PIR detects movement it will trigger the Digitek G-Line Pro motorcycle alarm. For further information on the Digitek G-Link garage/shed wireless PIR please visit us at

'www.digitek-mot.com'

Please read the following installation instructions carefully to familiarise yourself fully with the alarm system features and operating procedures, should you have any questions then please contact us at

'techincal@digitek-moto.com'.

Thatcham Homologation Number; TQA 382

CONTENTS

1.0 – Alarm Positioning

Securing the alarm control unit:

- Secure/ Dry location, for example under the motorcycle seat or behind a fixed panel.
- It is important to give the rubber sheath a 'goose-neck' bending as shown in the picture opposite and secure with a tie wrap to help prevent water ingress.
- Pay attention not to muffle the siren speaker.
- Secure away from moving mechanical parts.
- Keep away from devices that could reach high temperatures when the vehicle is in use.
- Secure into position with the supplied zip-tie.

Attention: Great care should be taken when routing the alarm power supply wires. Avoid trapping the wires and keep away from moving parts.

OK!

NO!

Do not install the alarm unit in this position as water ingress over time may seep through the rubber sheath and permanently damage the electronic circuit making the alarm system unreliable.
Warrant will be void!

⚠️ **ATTENTION**; Do not jet wash the alarm ECU. The alarm warranty will not cover damages to the alarm system due to water ingress caused by improper installation **OR** jet washing!

1.1 - Alarm Positioning For Maximum Sensitivity

To ensure correct operation of the built-in motion sensor install the alarm as illustrated below.

① OK   OK   OK   OK

②

OK

45° MAX

45° MAX

Figure 1: horizontal positioning.
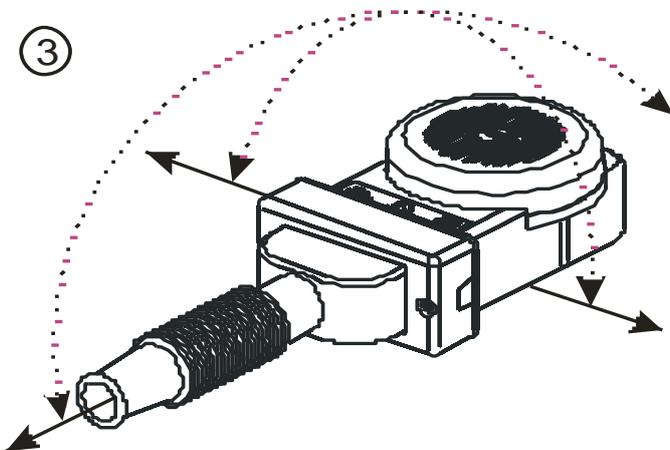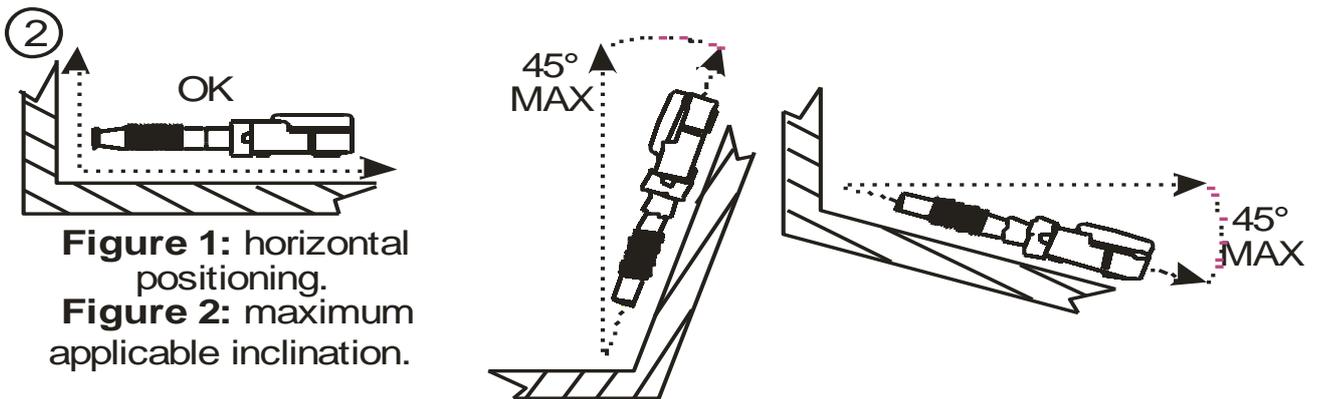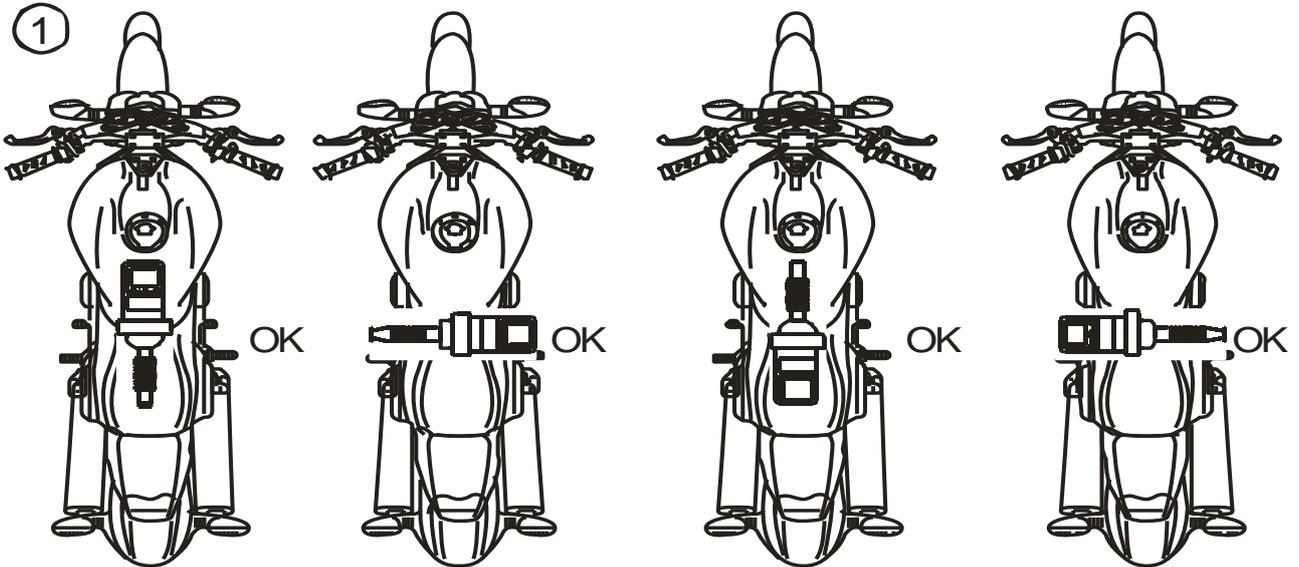**Figure 2:** maximum applicable inclination.

③

Figure 3: Motion sensor operation with the siren facing up or down. The sensor will detect any movement of the motorcycle in any direction (recommended).
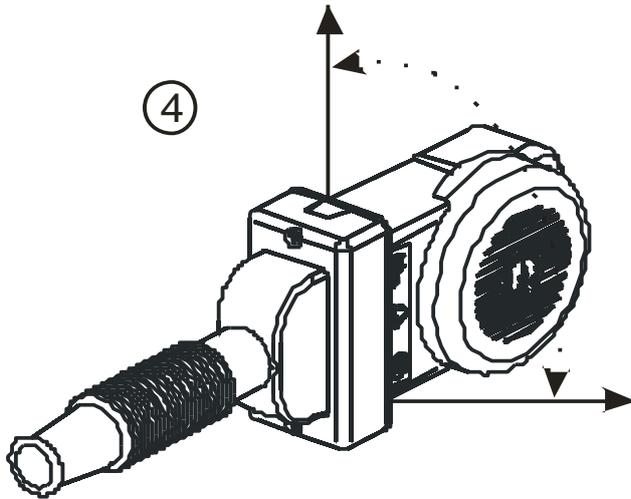
Figure 4: Motion sensor operation with the siren facing sideways

⚠ **ATTENTION:** Only suitable for vehicles with a side stand, the alarm can be fitted on either the right or left side of the motorcycle as long as the siren is turned toward the right side of the vehicle (opposite to the side stand).
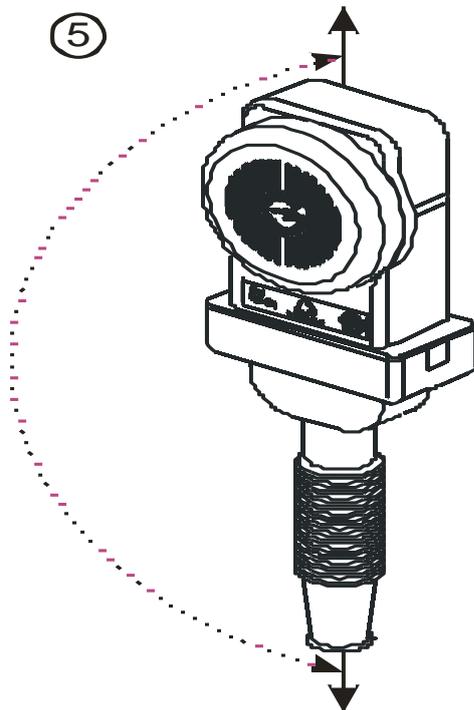
Figure 5: Motion sensor operation with the alarm fitted vertically.

⚠ **ATTENTION:** Only for motorcycles with a centre stand. To prevent water from entering the alarm unit via the rubber sheath the alarm must position with the rubber sheath at the bottom (as shown in figure 5 above).

1.2 – Alarm Unit Sealing

To seal the alarm, position the rubber cap over the external edge of the alarm housing. Pull the plastic rectangular flange over the rubber cap and secure with the supplied screws. Do not over tighten.
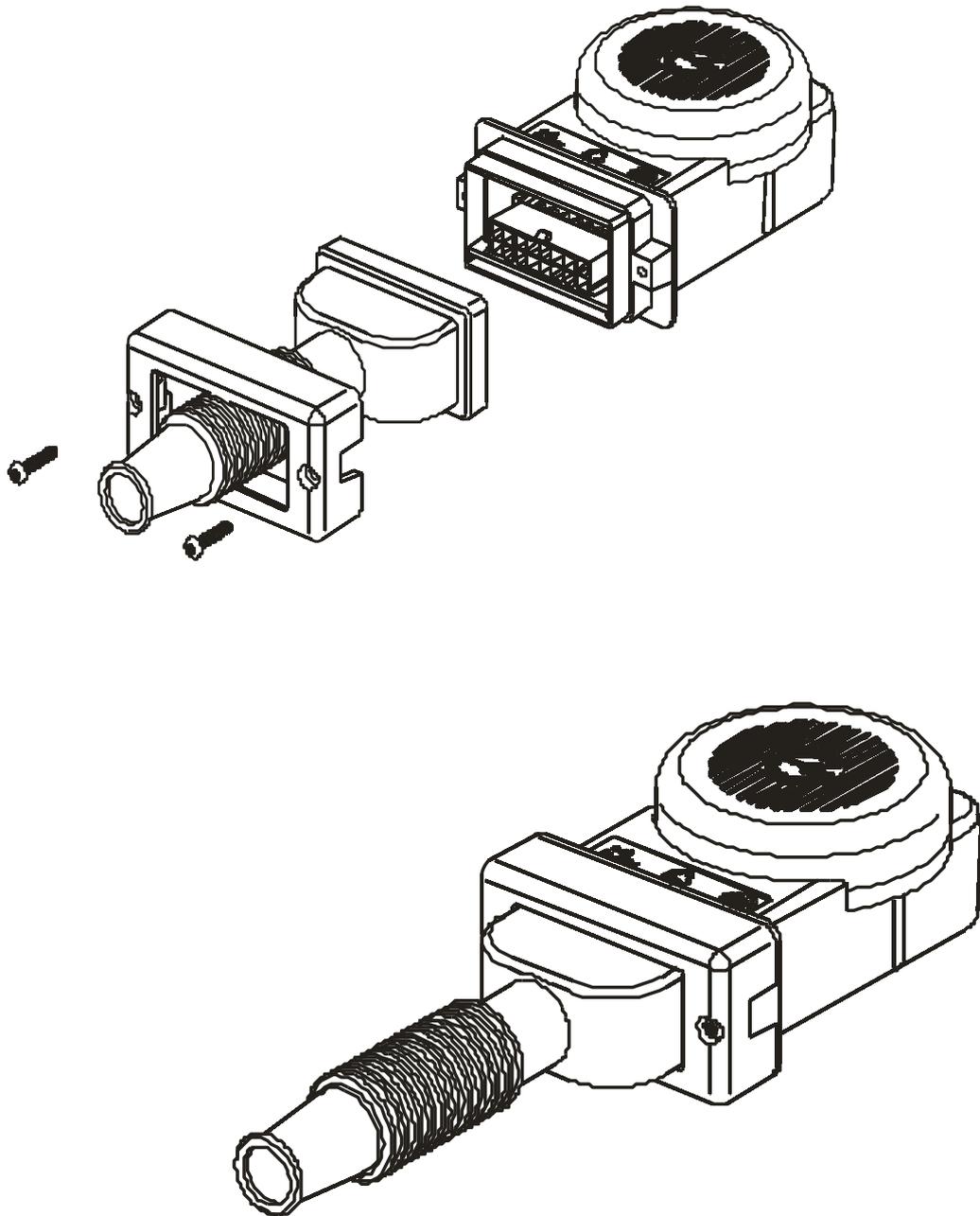
Alarm unit sealed

1.3 – Electronic Touch Key Receptacle Positioning

The electronic touch key is a simplified remote control with no batteries. In emergency situations (remote control failure) it can be used to arm/disarm the alarm by simply touching it to its receptacle. The receptacle incorporates a LED warning light that serves as both a system status indicator and a visual theft deterrent and must be installed where it can be seen and accessed by the end user.

For example: 'A' – side panel or 'B' - Instrument cluster.

A

Electronic Touch Key

Electronic Touch Key Receptacle

B

Electronic Touch Key
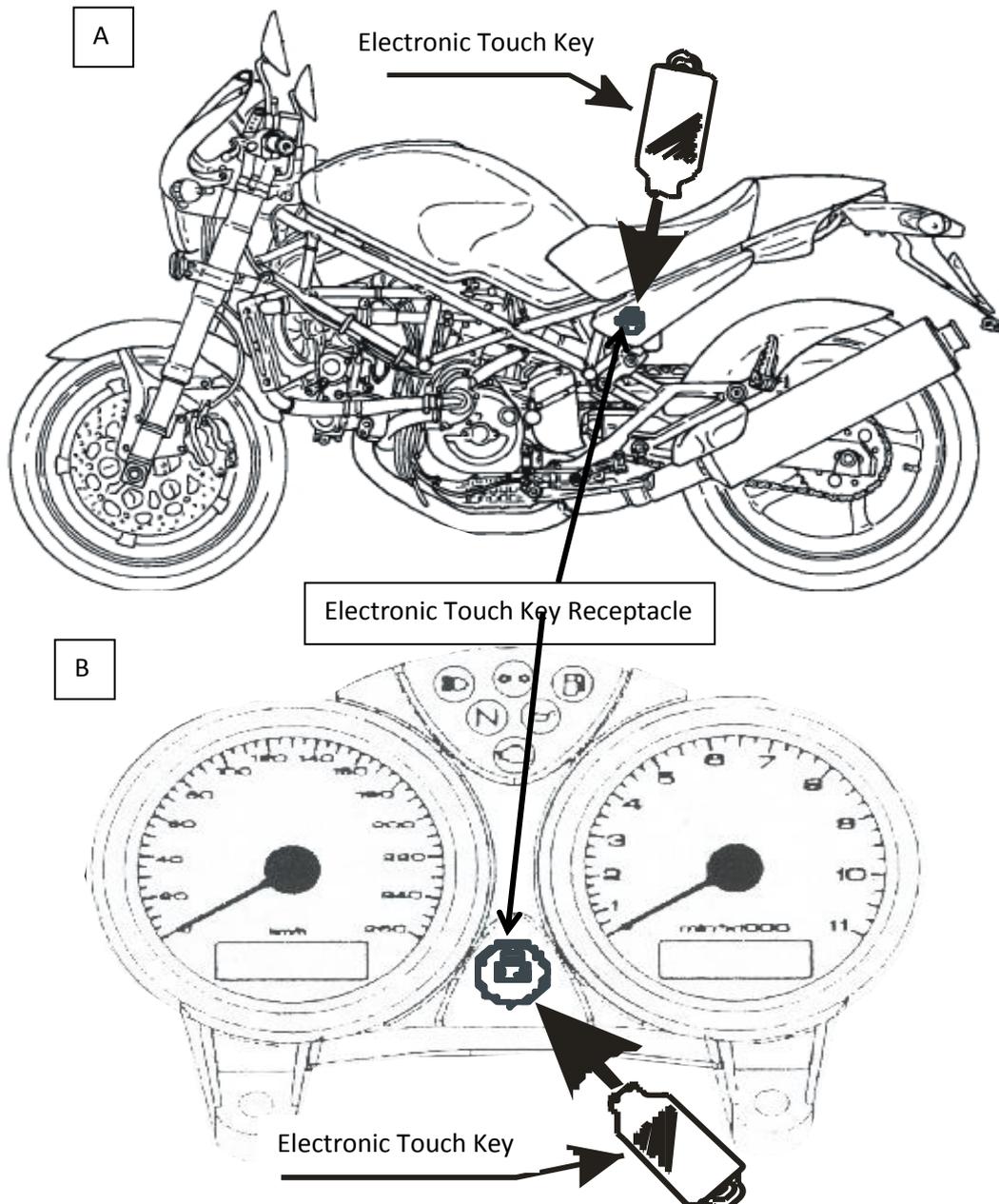
⚠️ **ATTENTION:** Before drilling with a 13mm drill bit check behind the trim that you have plenty of room for the receptacle and to be sure that the LED will not be obscured for example by the handlebars when the vehicle is parked.

1.4 - Contact Switch Positioning

The supplied contact reed switch must be fitted to protect the seat or top-case. It must be installed in such a way as to detect the opening of the seat/top-case without being accessible from the outside. The trigger threshold must be carefully set to avoid false alarms. The switch has a self-adhesive backing to assist in mounting, clean and de-grease the area thoroughly prior to fitting. Fit the magnet on the removable panel/seat adjacent to the switch using the fitting methods described above. When correctly set; the LED should go out before the panel is removed by 25mm. The position of the switch/magnet should be adjusted accordingly. If more than one area is to be protected, extra magnets and switches are available through Digitek Moto-Technic, this is a chargeable extra.

⚠ **ATTENTION**: The ENGINE immobilizer 40 second count down is interrupted until the seat/top case is closed!

1.5 – Electrical Connections

Alarm Wire Colour	Alarm Plug Pin	Connection
Black wire marked 'M'	3	Connect to motorcycle battery negative terminal (Ground)
Black wire marked 'R'	16	Connect to motorcycle battery positive 12v via supplied 10amp fuse
Orange	15	Connect to motorcycle left turn indicator
Orange	17	Connect to motorcycle right turn indicator
Black wire marked 'G'	8	Connect to motorcycle ignition under key (+15)
Green/Brown	5	Connect to seat/Top-case contact switch
White/Violet	4	Learning New Device – See section 2.1
Green	11	Electronic Key data line

1.6 - Engine Immobilisation (see diagram 1.9)

Alarm Wire Colour	Alarm Plug Pin	Connection – see wiring diagram section 1.9
Black wire marked 'B1'	13	Connect to motorcycle starter switch (see diagram 1.9)
Black wire marked 'H1'	12	Connect to motorcycle starter wire (See section 1.9)
Black wire marked 'HB'	14	Not used – cut and insulate.
Black wire marked 'B'	1	Connect to positive under key wire being cut; i.e. fuel/ign (See diag 1.9)
Black wire marked 'H'	10	Connect to other side of positive under key wire being cut , See diag 1.9

1.7 – Alarm Connector Wiring Diagram

Alarm Plug Pin	Alarm wire Colour / ID	Function
1	Black – 'B1'	Engine Immobilisation
2	Brown	Earth for Electronic Touch Key Receptacle
3	Black – 'M'	Power supply earth
4	White/Violet	Learning New Device – See Section 2.1
5	Green/Brown	Contact Switch Input
6	Empty	Empty
7	Empty	Empty
8	Black – 'G'	Ignition Key 12v (+15)
9	Black	Neg out for LED only
10	Black – 'H1'	Engine Immobilisation
11	Green	Electronic Key data line
12	Black – 'H'	Engine Immobilisation (N/C)
13	Black – 'B'	Engine Immobilisation (COM)
14	Black – 'HB'	Engine Immobilisation (N/A)
15	Orange	Turn Indicator
16	Black – 'R'	Power supply 12v via 10amp fuse / LED 12v Red
17	Orange	Turn Indicator
18	Black	Antenna

Alarm connecter plug from wire entry side.

Electronic Touch Key

Electronic Touch Key receptacle & LED

Antenna.

2 x Orange: Indicators.

7.5amp

7.5amp

Immobiliser: Black wire marked **'H'** (N/C)

Immobiliser: Black wire marked **'B'** (Com)

ATTENTION: the supplied 10amp fuse must be fitted.

Immobiliser: Black wire marked **'HB'** (N/O)

Black wire marked **'R'**

Black wire marked **'M'**

Immobiliser: Black wire marked **'B1'** (Com)

Immobiliser: Black wire marked **'H1'** (N/C)

12v Battery

Green/Brown

Black wire marked **'G'**

Ground

Attention; the supplied reed switch must be fitted to comply with Thatcham approval.

1.8 - Engine Immobilisation (electronic Ignition) - Wiring Diagram

Note; Black alarm wire marked **'HB'** is NOT USED. Cut & insulate.

+15

Black alarm wire marked **'B'** to positive under key wire that is being cut.

Black alarm wire marked **'B1'** to starter switch.

Black alarm wire marked **'H'** to other side of wire being cut (i.e; fuel or Ign).

Black alarm wire marked **'H1'** to

ATTENTION:
- Max relay capacity is 8amp.
- The ENGINE immobilizer 40 second count down is interrupted until the seat/top case is closed!

1.9 – Learning New Devices

The following 2 procedures below (A or B) can be used for learning additional remote controls and the Digitek G-Link garage/shed wireless PIR. For further information on the 'Digitek G-Link' visit us at '**www.digitek-moto.com**'.

A/ Learn a new device via the alarm Green/Brown wire:
- Arm and then dis-arm the alarm system via the original alarm remote control or electronic key.
- Lift the seat or open the top-case, if there is no contact switch fitted you will need to ground the alarm Green/Brown wire.
- Connect the alarm White/Violet wire to ground.
- Turn ignition key to 'ON'.
- Two flashes of the turn indicators and two beeps (high and low) will confirm the system is in learning mode.
- Remove the alarm White/Violet wire from ground.
- Depending on which device is to be learned either press one of the new remote control buttons **OR** insert the electronic key in its receptacle **OR** make the magnetic contact transmit of the wireless reed switch to be learnt (bring contact and magnet together and then move apart) **OR** set the Digitek G-Link garage/shed wireless PIR to 'TX Test' (see relevant kit instructions).
  A flash of the turn indicators and a high beep will confirm the operation has been completed successfully.
- To learn another device, apply the alarm White/Violet wire to ground for 1 second and repeat one of the above procedures relative to the device to be learnt.
- To exit the learning procedure, turn ignition key 'OFF'.
- A low pitched beep and a flash of the turn indicators will confirm the end of the procedure.
- Close the seat/top-case or remove the Green/Brown wire from ground and insulate.

⚠ ATTENTION – The alarm memory will only store 8 devices; saving an extra device (9) will automatically delete the first device.

B/ Learn a new device without the alarm Green/Brown wire:
- Arm and then dis-arm the alarm system via the original alarm remote control or electronic key.
- Turn ignition key to 'ON'.
- The alarm LED will turn ON for 1 second.
- While the alarm LED is ON, simultaneously press both buttons on the remote control or insert the electronic touch key into its receptacle.
- Two flashes of the turn indicators and two beeps (high and low) will confirm the system is in learning mode.
- Depending on which device is to be learned either press one of the new remote control buttons **OR** insert the electronic key in its receptacle **OR** make the magnetic contact transmit of the wireless reed switch to be learnt (bring contact and magnet together and then move apart) **OR** set the Digitek G-Link garage/shed wireless PIR to 'TX Test' (see relevant kit instructions).
  A flash of the turn indicators and a high beep will confirm the operation has been completed successfully.
- If another device needs to be learnt then wait 2 seconds before doing so.
- To exit the learning procedure, turn ignition key 'OFF'.
- A low pitched beep and a flash of the turn indicators will confirm the end of the procedure.

⚠ ATTENTION – The alarm memory will only store 8 devices; saving an extra device (9) will automatically delete the first device.
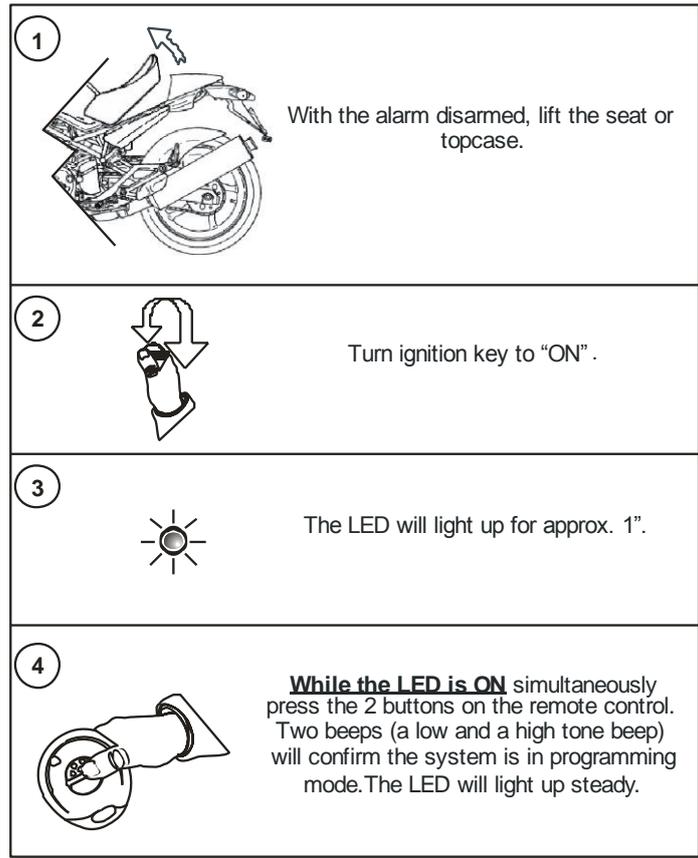
2.0 – Programmable Features

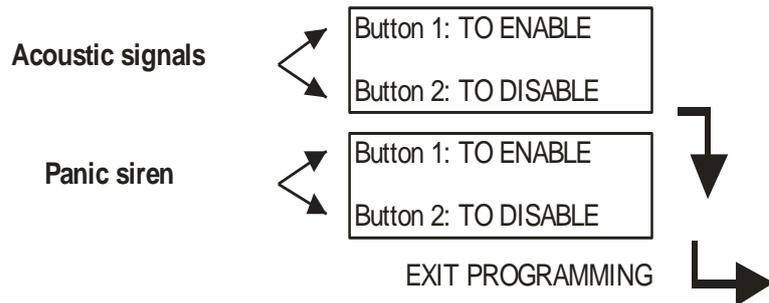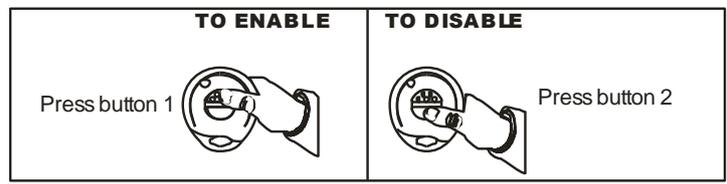The acoustic Arm/Dis-arm tone and siren panic feature can be switch off if requested by the end user.

NOTE: Factory setting is **ON** by default.

To enter alarm programing mode:
- Arm and then dis-arm the alarm via the remote control or electronic key.

①	With the alarm disarmed, lift the seat or topcase.
②	Turn ignition key to "ON".
③	The LED will light up for approx. 1".
④	**While the LED is ON** simultaneously press the 2 buttons on the remote control. Two beeps (a low and a high tone beep) will confirm the system is in programming mode. The LED will light up steady.

After pressing both buttons simultaneously (step 4), program the features according to your needs.

TO ENABLE	TO DISABLE
Press button 1	Press button 2

Acoustic signals
- Button 1: TO ENABLE
- Button 2: TO DISABLE

Panic siren
- Button 1: TO ENABLE
- Button 2: TO DISABLE

EXIT PROGRAMMING

Programing Example;

- With the alarm dis-armed, lift the seat or open the top-case, if there is no contact switch fitted you will need to ground the alarm Green/Brown wire.
- Turn ignition key to 'ON', the alarm LED will light up for 1 second.
- While the alarm LED is ON, simultaneously press the 2 buttons on the alarm remote control. Two beeps will confirm that the system is in programming mode. The LED will turn ON steady.
- Press button 1 on the alarm remote control, a high-tone beep will confirm that acoustic signals have been enabled.
- Press button 1 again, a high-tone beep will confirm that the panic siren has been enabled.
- When the last feature is programmed, the system automatically exits the programming procedure. Three low tone beeps followed by a high tone beep will confirm the end of the procedure. The alarm LED will also turn OFF.
- Turn ignition key 'OFF' and close the seat/top-case or remove the Green/Brown wire from ground and insulate.

NOTE: You can exit the programming procedure at any time by turning ignition key 'OFF'. Programmed features will automatically be saved while the others will remain unchanged.

### 2.1 – Replacing Remote Control Batteries

This compact alarm system is supplied with two '2-button' remote controls. The remote control has a low battery charge indicator that gives you early warning to avoid malfunctioning. When the batteries are fully charged, the radio key LED will show a steady light at the press of a button. If the batteries are low the radio key LED will start blinking rapidly when the button is pressed.

Button 1:   Alarm system arming/dis-arming
              Panic Alarm

Button 2:   Hazard feature activation
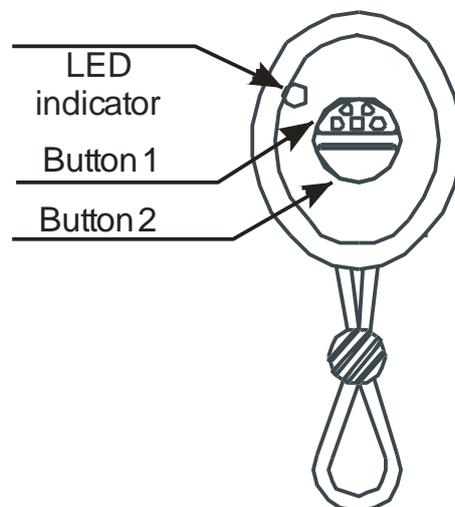
When the remote control batteries are too weak, replace them as indicated below.
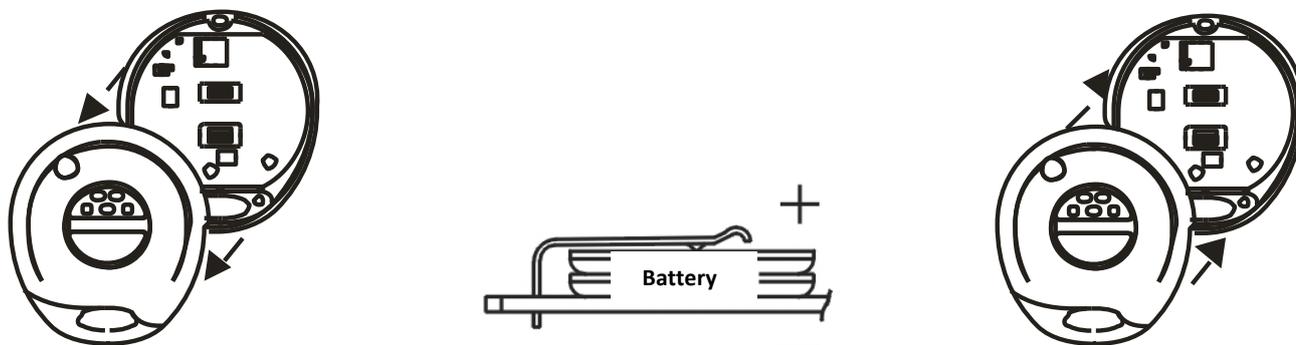
Battery

Separate the radio key halves tacking care not to damage the internal circuit.
Remove the discharged batteries and insert the new ones taking care not to invert the battery polarity.
Close the radio key halves together and make sure the remote works properly by pressing either button (radio key LED should illuminate).

⚠ Use only **CR1616 batteries**. Different type batteries can seriously damage the remote control unit.
Discard used batteries properly in special dedicated containers.

2.2 – Technical Specifications

Power supply	12 Vdc
Supply voltage range	9Vdc - 15Vdc
Current absorption @ 12 Vdc	<1.5ma (System armed and LED flashing)
Current absorption in 'Sleep Mode'	< 1 µA
Realay Capacity	8amp
Siren sound level	118 dB max @1m