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1. **Safety Warnings**

To ensure a safe and trouble-free experience when using your Swytch Conversion Kit please follow the guidelines below:

1) **Fully charge before first use**

After receiving your kit and before fitting to your bike or doing anything else fully charge the Power Pack. 3 hours (25 Mile) or 6 hours (50 Mile). Only use the charger provided.

2) **Never leave on charge**

The power pack is perfectly safe for home use, but the charger and battery will naturally and gradually heat up when it is plugged in.

Avoid leaving on charge for longer than necessary. Extended periods left on charge can lead to unnecessary over-heating of the battery and charger. This can degrade the product and present a slightly increased safety risk.

3) **Hear the “Click” when attaching the Power Pack to the Handlebar Mount.**

Make sure that the Power Pack clicks into place when attaching onto the handlebar mount. If you don’t hear the click, give it a firm push – the power pack **must** be fully pressed down on the mount to ensure correct operation.

4) **Tighten up before riding**

Whether it’s your first ride, or your hundredth ride, please ensure all nuts, screws and bolts are tight before taking off on the road!

Any loose parts could result in the motor wheel coming off during riding - please be careful.

Every 100km, do tighten your wheel spokes back up if loose to ensure the wheel remains secure.
2. **Quick Start Guide**

*Is everything in your box?*

Before starting, make sure everything is in the box that should be, and double check the parts match with your order (see next section).

*Then, if you know what you’re doing, crack on!*

This video [Swytch - How To Convert Your Bike](#) gives an overview of the conversion process. If you know your way around bikes you may prefer to crack on and follow the video to get up and running.

The process can be summed up in four simple steps:

<table>
<thead>
<tr>
<th>Step</th>
<th>Photo</th>
<th>Tips &amp; Checks</th>
</tr>
</thead>
</table>
| 1) **Fit the Motor Wheel** | ![Motor Wheel](image1) | • Motor cable on the left of the bike  
• Re-adjust the brakes if necessary |
| 2) **Fit the Pedal Sensor** | ![Pedal Sensor](image2) | • Magnet disk on left of the bike  
• Mount sensor close to the magnets  
• Smooth side of the magnet disk must be facing the sensor. |
| 3) **Fit the Handlebar Mount** | ![Handlebar Mount](image3) | Tilt Mount 45° upwards when fitting the strap so it is in tension when horizontal  
• Motor cable on the left of the bike  
• Re-adjust the brakes if necessary |
| 4) **Connect and Go!** | ![Connect and Go!](image4) |  
• Magnet disk on left of the bike  
• Mount sensor close to the magnets  
• Smooth side of the magnet disk must be facing the sensor. |

*However, if you are new to working with bikes, or had an issue whilst trying to get setup quickly, we recommend you read this instruction manual thoroughly before starting.*
3. **Tools Required & What’s in the Box**

<table>
<thead>
<tr>
<th>Allen Key Set</th>
<th>Tyre Levers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spanner</td>
<td>Bicycle Pump</td>
</tr>
<tr>
<td>Scissors</td>
<td>Elbow Grease</td>
</tr>
</tbody>
</table>
What's in the Box

Check everything is there before you start! Once you've unpacked and started fitting it's easy for things to go missing. Please keep the original packaging until you've fitted the kit.

Every kit should have the following parts:

- 2 Handlebar Mount
- 1 Motor Wheel
- 3 Pedal Sensor
- 4 Cable Ties x10
- 5 Safety Manual
- 4 Power Pack
- 6 Charger
All Kits should contain the following parts, please check them off before starting the conversion

<table>
<thead>
<tr>
<th>Photo</th>
<th>Part</th>
<th>Received</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Hub Motor Wheel" /></td>
<td>1) Hub Motor Wheel</td>
<td></td>
</tr>
<tr>
<td><img src="image2" alt="Quick Connect Handlebar Mount" /></td>
<td>2) Quick Connect Handlebar Mount</td>
<td></td>
</tr>
<tr>
<td><img src="image3" alt="Swytch Power Pack" /></td>
<td>3) Swytch Power Pack</td>
<td></td>
</tr>
<tr>
<td><img src="image4" alt="Easy Fit Pedal Sensor" /></td>
<td>4) Easy Fit Pedal Sensor</td>
<td></td>
</tr>
<tr>
<td><img src="image5" alt="Cable Ties x10" /></td>
<td>5) Cable Ties x10</td>
<td></td>
</tr>
<tr>
<td><img src="image6" alt="Charger (UK, EU, US)" /></td>
<td>6) Charger (UK, EU, US)</td>
<td></td>
</tr>
</tbody>
</table>
Some kits may also include these parts as optional extras:

<table>
<thead>
<tr>
<th>Photo</th>
<th>Name</th>
</tr>
</thead>
</table>
| ![Motor Extension Cable](image1.png) | **8) Motor Extension Cable**  
*(High Power Kits Only)* |
| ![Brompton Extension Peg](image2.png) | **9) Brompton Extension Peg**  
*(16” Brompton Kits Only)* |
| ![Hall Sensor Bypass Cable](image3.png) | **10) Hall Sensor Bypass Cable**  
*(250W Standard kits only)* |
| ![Torque Arm](image4.png) | **11) Torque Arm**  
*(Optional Addon)* |
| ![Twist Throttle](image5.png) | **12) Twist Throttle**  
*(Optional Addon)* |
| ![Spare Battery](image6.png) | **13) Spare Battery (25 Mile / 50 Mile)**  
*(Optional Addon)* |
| ![In-line Brake Sensors](image7.png) | **14) In-line Brake Sensors / Hydraulic Brake Sensors** |
4. **Installation**  
4.1 **Motor Wheel**

1. **Remove your old tyre + front wheel from your bicycle**  
   a. **Swap the inner tube and tyre from the old wheel to your new Swytch motor wheel.**  
   b. **If your tyre tread is directional, make sure to face it the correct way. Pump the tyre to the manufacturer’s suggested pressure.**

![Image of a bicycle wheel being removed](image)

2. **Fit disc-brake disc (optional)**  
   a. **If you have disc brakes, move the disc from your old wheel to your new Swytch motor wheel. Use the screws from your old wheel on your new wheel.**

   **Note:** Screws that are too long may cause the motor to stop spinning. **Please do check this before installing onto bicycle.**
3. **Check orientation of motor**
   a. The motor cable should be on the left of the bicycle (opposite side to the chain)
   b. Ensure the motor cable is coming out of the motor in the same direction as the slot of the forks (i.e. the motor cable is going upwards when the bike is upside down, or downwards when the bike is upright). If the motor cable exits the other way around it can get squashed and damaged

4. **Check the axle goes in all the way**
   a. The flat sides of the axle should fit within forks. If it does not fit, please check the troubleshooting section.
5. **Fit the torque washer "lips" into the fork slot**
   a. Assemble the motor wheel to the forks with the torque washers installed as shown. The torque washer protrusion should fit snugly inside the gap in the fork.

- **Slot size 10mm**
- **Motor cable comes out in direction of fork slot.**
- **Torque Washer facing this direction**
6. **Tighten the Wheel Nut**
   a. Assemble both axle nuts tightly with a spanner.

7. **Double check motor spins correctly.**
   a. Spin the motor wheel with your hand to check it can spin freely and isn’t touching the forks. If it is touching, please check the [troubleshooting](#) section.
   b. The wheel should be harder to turn backwards than turning forwards. If it is the opposite, then the motor has been installed backwards.

---

Add spacers of the motor casing touches the forks
8. **Adjust brakes**
   
a. *If necessary, adjust the brakes so that they contact the rim of the wheel. When adjusting the brakes follow the bicycle manufacturer's instructions.*
4.2 Pedal Assist Sensor (PAS)

1. Magnet disc  
   a. Fit the magnet disk either side of the crank axle.  
   b. The side of the bike should be opposite the side with the chain.  
   c. The smooth side of the magnet disk must be facing the sensor.
2. **Troubleshooting**  
   a. If the magnet disk doesn’t fit, check the troubleshooting section.

3. **Fit Retention Ring**  
   a. Fit the retention ring around the magnet disk to secure it in place. It’s easiest to start on one side and work the ring around until you get to the other end.

4. **Check Correctly Installed**  
   a. Below is how the magnet disk should look once properly fitted:
5. **Attach Pedal Sensor to bike**
   a. Remove the pedal sensor adhesive cover
   b. Attach the pedal sensor to the frame of the bike close to the magnet disk
6. **Line up sensor to magnet arc**
   a. Make sure that the center of the sensor is aligned to the magnets.
   b. Point the sensor away in a straight line from the center of the disk
   c. As the magnet disk spins the magnets need to pass close to the sensor for it to detect your pedaling.

7. **Check correct installation**
   a. The photo below shows a correctly fitted pedal sensor. Adjust the pedal sensor to minimise gap between the sensor and the magnet. Tighten the screw to prevent it from moving.
8. **Cable tie in place**
   a. Once fitted correctly, use the cable ties provided to secure the pedal sensor to the frame. Route the wire along the downtube of the bike up to the handlebars, using the cable ties to secure to the frame.
4.3 Quick Connect Handlebar Mount

1. **Add rubber spacers to handlebars**
   a. Fit the rubber handlebar spacers onto the handlebars. (22mm diameter handlebars only)
   b. For larger sized handlebars (e.g. on mountain bikes) they are not required.
2. **Place mount onto handlebars angled upwards 45°**
   a. Fit the Quick Connect Handlebar Mount over the spacers onto the handlebar.
   b. *Tilt the mount up approximately 45°, this is necessary to ensure correct final installation.*

3. **Fit the Anti-Twist Strap**
   a. Pass the Anti-Twist Strap underneath the handlebar stem.
4. **Tighten strap in place**
   a. Secure the strap on to the other arm of the mount. Use the closest holes possible with the mount tilted upwards. Fold the strap back on itself to increase its strength and keep it looking tidy. Tighten the screws.

5. **Align Mount horizontally**
   a. Turn the Mount to face horizontally. This will put tension in the Twist Strap and keep the Mount from turning any further. If in the future the Mount sags, simply adjust to a new hole on the Twist Strap.
6. **Connect accessories**
   
a. Connect the PAS to the Quick Connect Handlebar Mount.

   b. To connect the waterproof connector, find the arrow on each connector and align the. Once aligned, push the connector pair together until no colour is visible.

7. **Connect motor**
   
a. Connect the motor to the Quick Connect Handlebar Mount. Secure the motor wire to the fork with the cable ties provided. Leave enough slack for the handlebars to turn.
b. If the motor cable is not long enough, you may need an extension cable – the troubleshooting section

8. Ensure the motor is fully connected – hear the “click”

a. To connect the waterproof connector, align the arrows and push together until the arrow on the motor wire connector is touching the Mount connector. The photo below is not properly connected

b. The photo below shows the motor connected correctly. You will hear and feel a “click” once it is pushed in all the way
4.4 Brompton Folding Bike Kit

1. Follow the installation instructions for the standard kits.

2. Remove the existing peg from the Brompton frame and swap attach the extended peg that is provided in the kit. Screw the peg on by hand until it turns no further.

3. Fit the sensor onto the small frame tube of the Brompton. Angle the sensor and add a spacer to move the sensor within range. Tighten the sensor screw to lock it in position and add cable ties to secure it to the frame.
4. Alternative mounting location: Install the pedal sensor onto the lower part of the frame. Remove the hinge mechanism so that it can fit under the pedal sensor.

**BROMPTON INCORRECT MOUNTING METHODS**

Mounted onto incorrect tube. Magnets must pass from left to right of the sensor.
Mounted onto correct tube but gap is too big

4.5 High Power Kit
1. Follow the installation instructions for the standard kits.
2. Use the motor extension cable to extend the length of the rear motor wire so that it reaches the handlebars. Use the provided cable ties to secure the cable to the bike frame.
4.6 Addons

4.6.1 In-Line Brake Sensors
Without the brake sensors the motor will still turn off a moment after the pedals stop turning or the throttle is disengaged.

Brake sensors provide an additional level of control and safety by turning off the motor immediately when the brakes are applied – it is an optional, recommended addition.

Fitting the brake sensors requires the brake cable to be removed and replaced. If this is not done properly then the brakes may not function correctly which can cause a serious accident. If you are not confident with working on your bike’s brakes, then we recommend taking the bike to your local bike shop or bike mechanic help to fit the sensors.

If you’re going to attempt to fit the brake sensors with no previous experience with working on brakes, fit only one brake sensor on to the rear brake and leave the front brake without a sensor as a backup.

1. **Fit the inline brake sensor to the brake cable**
   a. Thread the cable guide and inline sensor onto the bicycle brake cable
   b. The sensor connector should be pointing away from the brake lever

2. **Reconnect the brake cable to your brakes**
a. If your cable is too short, use the spare provided to fit the rear brake & use your rear brake cable to replace your front brake cable

3. Connect the brake sensor to the Quick Connect Mount
   a. Repeat for the other brake
   b. Test by turning on the power pack and holding the (·) button to activate the walk mode and check the brake sensor stops the motor turning.

4. You can also assemble the brake sensors onto any point along the brake cable.
4.6.2 Hydraulic Brake Sensors

1. **Fit the hydraulic brake sensor to the outside of the brake lever**
   a. Stick the sensor to the brake lever base
   b. Stick the magnet to the brake lever

2. **Check the position of the sensor**
   a. The magnet should be close when the brake lever is not used & far when brake is engaged
   b. Test by turning on the power pack and holding the (-) button to activate the walk mode and check the brake sensor stops the motor turning.
4.6.3 Eyelet Torque Arm

Torque arms are required to restrain higher power motors and stop the axle from turning inside the bike frame or forks. They are recommended for 350W or more, optional for 250W (may be necessary if you have weak forks e.g. carbon fiber)

1. Fit the Eyelet Torque Arm
   a. Use the side opposite to the motor wire
   b. Use the C-Washer or screw washers if necessary, to help with the fit
   c. Tighten all screws and the wheel nut before riding
1. **Fit the Universal Torque Arm**
   a. Use the side opposite to the motor wire
   b. Use the C-Washer or screw washers if necessary, to help with the fit
   c. Tighten all screws and the wheel nut before riding
4.6.5 Torque Narrow

1. Fit the Torque Narrow onto the RIGHT-HAND SIDE of bicycle
   a. Must be on RIGHT
   b. Fit Torque arm over a tightly fastened axle nut
   c. Tighten Jubilee clip on axle
   d. Break off excess clip by bending back and forth

2. Use 2nd nut to secure torque arm to the axle
4.6.6 Twist Throttle
1. Fit the Twist Throttle to the handlebars
   a. Should be on the right-hand side
   b. Cut hand-grips shorter to accommodate the size of the throttle
2. Ensure that the brake and gear shifters operate normally before riding

![](image)

4.6.7 Thumb Throttle
1. Fit the Thumb Throttle to the handlebars
   a. Should be on the right-hand side
   b. Cut hand-grips shorter to accommodate the size of the throttle
2. Ensure that the brake and gear shifters operate normally before riding

![](image)
### 4.6.8 Hall Sensor Bypass Cable

You will only need to install the Hall Sensor Bypass Cable if there is a problem with your motor hall sensors. Store the part somewhere safe.

The controller is designed to work with or without hall sensors. However, if there is a problem with your motor hall sensors, you can prevent this by installing the ‘bypass cable’.

*Install the cable between the controller and the Power Pack Connector to disable the hall sensors. See the troubleshooting section for full instructions.*
5. **Operation**

5.1 **Power Pack Removal**

To attach the Power Pack to the handlebars, align the back of the Power Pack with the Quick Connect Handlebar Mount and slide downwards, pressing firmly until you hear a *click*.

To disconnect, press the button on the Handlebar Mount (GREEN) and pull the Power Pack up with the handle (BLUE). If it is difficult to disconnect, instead of pulling directly up wiggle the Power Pack side to side.
5.2 Power Pack Controls
The power pack is fitted with a battery switch to toggle the battery power on/off. Please ensure the battery button is depressed before trying to turn on the Power Pack Display.

To turn on the LCD press and hold the circle (o) button.

Use the (+) and (–) buttons to adjust the level of pedal assist.

To turn the front light on and off, press and hold the (+) Button.

Video Demonstration Instructions
Please refer to this video for more advanced operation of the Display. [https://youtu.be/wtIsJZ2IMHY](https://youtu.be/wtIsJZ2IMHY)

Full Manual
Also refer to the display manual for more detailed instructions.

5.3 Charging
1. Pull the charging cover open
2. Expose the DC charge cable & connect the charger

NOTE: The battery is shipped half-charged.

The red light on the charger will light up when it is charging, it will go green when full.

Please refrain from leaving the battery on charge for too long once it is fully charged.

5.4 Swapping Battery
1. Turn off the Battery Switch
2. Open Power Pack and remove battery
a. Use the position below to easily access the connectors

3. **Fit the new battery into the Power Pack**
   a. Connect the 4 cables using the position above
   b. Place the Battery into the power pack
   c. Tidy the cables away like shown below

6. **Installation Troubleshooting**
   6.1 **My Power Pack isn’t turning on**
   1. Press the Battery Switch to turn on the battery
   2. Hold the (o) button for 3 seconds to turn on the Power Pack
Still not turning on?

1. Check that the Power Pack is charged
2. Check that the Battery Switch is on
### 6.2 Error codes

The display can sometimes show an error code. These are the most common that you may encounter with the corresponding solutions. For other error codes, check the LCD Display manual.

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Problem</th>
<th>Solutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
<td>Motor Hall Signal Abnormality</td>
<td>Fit the Hall Sensor Bypass Cable</td>
</tr>
<tr>
<td>25</td>
<td>Brake Abnormality (commonly happens when the brakes are engaged before the Power Pack is turned on)</td>
<td>Turn off the brake sensors before turning on the power pack. Brake sensor light will indicate when it is on. Alternatively, turn on the power pack before connecting to bike.</td>
</tr>
<tr>
<td>30</td>
<td>Communication Abnormality (Controller and Display aren’t connected)</td>
<td>Check the display is connected to the controller inside the Power Pack</td>
</tr>
</tbody>
</table>

*Brake sensor light will indicate when it is on. (Error 25)*
6.3 Motor Wheel doesn’t fit inside my forks

If the motor wheel axle is too large for the bicycle forks, increase the gap by a millimeter or two by removing some material with a file. *Never attempt this for carbon forks.*

*Alternative instructions for adapting the motor axles:*

File the flats of the axle until they fit your forks.
Check fit within the forks, don’t file too far

You may also need to file the torque washers on the sides until they fit within the forks.
The reason we've supplied a 10mm axle is because almost all bike axles are within 1mm of the standard 10mm. It's important that it's a very snug fit to prevent the axle from spinning and we didn't want to risk delivering to anyone an axle that is loose and might cause damage. That's why we're asking you to file off 0.5mm from the flats of your axle such that it will fit your forks.
6.4 Motor Wheel isn’t spinning freely
3. First check that the brakes are properly adjusted and are not touching the rim.
4. Next check if the motor casing is touching the forks. If it is, you need to increase the gap between the forks to fix this. The best way is to add a washer to the axle as shown below.

5. Alternatively, move the torque washer to the inside of the forks and use in place of a new washer.

6.5 Pedal Sensor Magnet Disk doesn’t fit my bike
If there isn’t enough space, remove the plastic hinge part and mount the pedal sensor directly to the frame using the cable ties provided.
The Pedal Sensor works with most bicycle types. The easiest installation is to fit the magnet disk to the axle. This requires a 5mm gap between the frame and the pedal crank for the magnet disk to fit.

Some bikes have a gap too small for the magnet disk to fit.
If this is the case, it is possible to fit the magnet disk over the base of the crank arm instead. To do this you may need to trim the length of the magnet disk teeth to fit your bike. **Be careful not to cut them too short.**
Alternatively, if there still isn’t enough space for your magnet disk, you can make further adjustments to fit it to your pedal crank arm. These are the steps to take:

1. Trim the inside of the magnet disk. A pair of wire cutters does the job well. Keep the interlocking alignment tabs intact, do not cut these off entirely.
2. The size of the trimmed hole should be big enough to fit around the bearings of your crank with room to spare. 45mm diameter should be enough for this.

3. Attach the magnet disk directly to the crank arm using a cable tie. Make sure that the magnet disk is centered around the axle. Test this by turning the pedals and checking if the magnets turn in a line.

4. To make sure the magnet disk is not assembled wonky, add a small rubber spacer (like a piece of inner tube) between the disk and the crank arm
5. Make sure that the cable tie is mounted tightly so that it doesn’t hit the sensor as the pedals turn. Slide the cable tie latch to the side so that it doesn’t catch on your ankles as you pedal.

6. Example of a rubber spacer made from a piece of inner tube. The thickness of the spacer will depend on the shape of your specific pedal.

If this doesn’t work, you may also need a different pedal sensor type – we have alternative options available so please contact us at support@swytchbike.com

If a pedal sensor cannot fit your bike, you can also use a throttle instead of the PAS.
6.6 Motor starts and stops when using Pedal Assist
If the pedal assist power is intermittent, first check if the PAS magnet disk is wonky.

6.7 Handlebar Mount moves up
If the handlebar mount moves up when removing the Power Pack:

1) Check the screws are tightened.
2) Fit the rubber handlebar spacers directly underneath the handlebar mount arms, check that they have not moved to the side. This can happen with the curved Brompton handlebars.

6.8 Handlebar Mount pointing down
If the handlebar mount appears loose or sags:

1) Adjust the twist strap to a higher closer hole
2) Make sure to tilt the mount upwards 45° before tightening
6.9 Power Pack is difficult to remove from bike

At the beginning of use there is a break-in period where the Power Pack will feel stiff to remove from the Quick Connect Handlebar Mount. To make it easier to remove here are some tips:

Instead of pulling directly up on the handle, rock the Power Pack side to side. This will make the removal a lot easier.

Pull the Power Pack in one quick motion, instead of pulling slowly.

Support and pull the Power Pack from the bottom instead of using the handle.
6.10 Power Pack randomly turns off while riding

**Symptoms:**

1) Power Pack suddenly turning off while riding normally.
2) After this happens the only way to turn the Power Pack back on is by resetting the battery. It is not possible to turn on the Power Pack by the middle display button (o)

**Solution:**

The problem can easily be fixed by installing the Hall Sensor Bypass Cable inside the Power Pack. Hall sensor bypass cable:

Install Hall Sensor Bypass Cable in-between the controller and the output of the Power Pack.
6.11 I can’t fit my Brake Sensors

You can fit your brake sensors at any point along the brake cable.

Here are the detailed instructions for how to fit them:

6.12 How do I open the Power Pack to change the battery or check the connectors?

1) Turn off the Power Pack by the battery switch (Power icon on top)
2) Fold the waterproof cover up and unzip the Power Pack bag

3) Open the bag. Note how the wires are arranged for when you reassemble the Power Pack.
4) Pull the battery out and rotate it around the side with the connectors. Rest the side of the battery on the surface and disconnect the 4 wires to the battery. If you’re switching battery, reconnect the new battery and reverse the process above.

5) Below is the inside view of the Power Pack without the battery. The protective divider is attached to the sides of the power pack. The controller-battery (Blue) connector and controller-display (white) connector are routed around the side.
6) This is the inside view without the divider. The controller-light connector is on the top. There are three controller-Powerpack connectors on the bottom; 1 yellow power connector and 2 black data connectors. These three are tucked into the gap beside the controller. The controller is secured underneath the elastic strap.
7) This is how to visually inspect the connectors. The rows of electrical contacts should be neatly arranged at the same height and regularly spaced. If any contact is bent to the side or too low, there will be a connection problem. This can be easily repaired by bending the contact back with a pair of pliers or another small tool.

8) Pull back the heat shrink cover and visually check that all the wires are connected. Push the heat shrink back over the connector.

9) Also check that the connector is properly locked into place. If left unlocked, it may disconnect while riding.
7. **Operation Troubleshooting**

This is a link to the troubleshooting video that summarises the steps: [https://youtu.be/yTborNfH1wo](https://youtu.be/yTborNfH1wo)

Please follow this step by step process from start to finish if you find for any reason the kit is not working as expected:

1. **Does the Power Pack turn on?**
   a. If no – is the battery button on?
   b. Make sure you **hold** the on button
   c. Is the Power Pack Charged?
   d. Are the connectors inside the Power Pack all connected?

2. **Plug the Power Pack into the Handlebar Mount with only the motor cable connected.** Activate the walk assist more by pressing and holding the (-) button. **Does the motor turn?**

3. **Plug in the Pedal Sensor and Motor.** Turn the pedals, the light on the pedal sensor should be flashing as the magnets pass the sensor.
   a. Is the magnet disk straight and close to the sensor?

4. **If the brake sensors are installed, make sure the light isn’t on when you are trying to run the bike**

5. **If using a throttle, plug it in**

6. **If it works under test conditions but not when you are riding, sit on the bike and test all again – for loading**

**Front light isn’t turning on? Check the connector to the front light and controller**

8. **Maintenance**

To ensure the kit fulfils its complete working lifetime you can keep it in good shape by:

- Attach the rain cover to the bracket when leaving outside
- Wipe and dry the motor casing when wet to prevent rust
- **Never leave the battery on charge for longer than required**
If you have any further questions, queries or problems that are not covered in this guide, please do contact us at support@swytchbike.com and a member of our Customer Service Team will be happy to help!