

# ***Maintenance and Safety***

The Number 28 Commuter Bicycle is equipped with a Lithium Ion battery pack. The Lithium Ion battery pack requires care and maintenance for the longest life and performance of the battery.

## **Battery Charging, Care & Safety**

- The battery must be removed from the bike for charging.
- **Regular Use** – If you are commuting significant distances (>10 miles), it is advisable to recharge the battery before the return journey.
- **Occasional Use** – Recharge the battery at least once a week, even if the cycle is unused.
- Always recharge the battery after every use.
- Always charge the battery indoors.
- Keep the battery away from water, to prevent shocks or shorting. When attached to the bicycle, it is safe to operate in wet conditions.
- Do not cover the battery or charger.
- Do not leave the battery permanently charging from the mains supply. Once the battery is fully charged, it should be disconnected from the mains power. **Helpful Hint: Use an electronic timer to start and stop the charge time automatically similar to those used for intermittent celebration lights.**
- **WARNING: Leaving the battery/charger permanently connected to the mains supply can cause over-heating and potentially cause fire damage.**
- Only use the charger provided to charge the battery.
- Do not use the battery to power anything other than the Number 28 Commuter Bicycle for which it was purchased.
- Do not disassemble or modify the battery.
- Do not expose the battery to fire or extreme temperatures.
- Do not short circuit the battery.
- Do not allow impact or force against the battery pack.
- Dispose of the battery in a dedicated waste facility.

## **Additional Lights (optional accessory)**

As an additional safety feature, we recommend that night users purchase independent front and rear lights that are NOT powered from the cycle battery. After a long journey, there is a risk that the cycle battery could be depleted, so lights relying on the cycle battery could stop working.

## **Tires/Spokes**

- Check the tires regularly to ensure that the correct pressures are maintained (pressure ranges are shown on the sides of the tires).
- Do not over-inflate the tires.
- Make sure all the spokes are tight before you ride.
- There are different types of pumps available for cycles. Ask your local cycle shop for the one best suited to your needs (do not use a garage forecourt air hose to inflate your tires).

## Brakes

- Make sure your brakes are adjusted correctly at all times.
- Adjustment can be made at the wheel rim/brake mechanism with tools. Fine tuning of the brakes can be made via adjustable twist screws that are located at the joint of the brake lever to the cable.
- Replace the brake blocks when worn.

## Power

Switch on the power by pressing the switch on the battery. The Number 28 Commuter Bicycle electric bicycle can be operated as a “pedelec”. This means that, as soon as the rider begins to pedal, the motor supplies energy to support the cyclist’s efforts. If the rider prefers to cycle without the assistance of the motor, he or she should turn the power off.

## Throttle

In order to use the throttle power, the red button on the handle bar must be pressed (this activates the throttle) and then the throttle (located on the right handle bar) can be used.

## Gears and Bicycle Chain

Change through the gears one at a time and only when the bicycle is being pedaled. To maintain performance, ensure that all the mechanical parts of the gears are lightly oiled (avoid getting oil deposits on the wheel rims). If the chain mechanism becomes dislodged, turn the pedals forward gently to engage it. If the chain becomes completely dislodged, re-engage it on the smallest gear cog.

## Seat

For maximum comfort ensure that the seat is both correctly adjusted and secure. Once set up correctly, the height of the seat can be adjusted without tools. Loosen the lever at the top of the frame below the seat to raise or lower the seat. Once the seat is at the required height, secure it by tightening the lever. Tighten or loosen the nut on the lever as required.

## User Safety

### Cycle Helmets

The Number 28 Commuter Bicycle is an electrically powered bicycle. You should always wear an approved helmet for your safety. Wearing a cycle helmet has been proven to reduce the likelihood of head injuries.

### Professional Maintenance

We recommend you have your cycle serviced by a professional cycle engineer at least once a year to ensure ongoing safe performance. If you are unsure as to how to carry out an assembly procedure or adjustment, we recommend that you consult your local cycle shop.

## Troubleshooting

### Brakes not working effectively

Check the distance between the brake blocks and the wheel rim.

Check that the blocks are parallel with the wheel rim.

Check for any wear on the brake blocks

Fine tuning the brakes can be performed by the adjusters between the brake lever on the handlebars and the brake cable.

Major adjustments are made at the brake blocks and you will need the appropriate tools.

See brake assembly instructions.

### Motor not working

Check that the ignition has been switched on

Check that the battery is properly inserted in its housing.

Check that the battery is charged.

Check that none of the electrical cables and connections has become dislodged.

### Light(s) not working

Check that the wiring is not broken.

Check that the bulbs are inserted correctly.

Check that all connections are made properly