



FREESKY[®]
go anywhere

SERVICE MANUAL

RECOMMENDED TORQUE FOR FREESKY EBIKE

Rear Wheel Axle Nut:	55N/M
Front wheel Axle Nut:	45N/M
Crank Arm Nut:	45N/M
Bottom Axle:	Left 40-50N.m, Right50-70N.m
Pedal:	35N/M
Stem Riser:	6-10N/M
Stem Pich Bolts	9N/M
Stem Clamp Bolts	6N/M
Kichstand Mounting Bolts:	10N/M
Rear Derailleur:	6 -8N/M
Shifter Clamp Bolts :	6 -8N/M
Brake Caliper Mounting Bolts :	10N/M
Brake lever Clamp Bolts:	6 -8N/M
Saddle Clamp Bolts:	20N/M
Seat Post Clamp Bolt:	15-20N/M
Disc Mounting Bolts:	7N/M
Fender Mounting Bolts:	5N/M
Headlight Mounting bolt:	6N/M
Throttle Clamp bolts:	1 N/M
Controller Box Mounting Bolts:	1 N/M
Rear Triangle Connection Bolts :	30N/M

Pre-Ride Safety Checklist

Notice: Before every ride, and after every 25-45 miles(40-72 km), we advise you following the pre-ride safety checklist.

Safety Check	
1.Brakes	<p>Ensure front and rear brakes work properly. Check brake pads for wear and ensure they are not overworn. Ensure brake pads are correctly positioned in relation to the rims. Ensure brake levers are lubricated and tightly secured to the handlebar. Test that the brake levers are firm and that the brake is functioning properly.</p>
2.Wheels and Tires	<p>Ensure tires are inflated within the recommended limits posted on the tire sidewalls and hold air. Ensure tires have good tread, have no bulges or excessive wear, and are free from any other damage. Ensure rims run true and have no obvious wobbles, dents, or kinks. Ensure all wheel spokes are tight and not broken. Check axle nuts and front wheel quick release to ensure they are tight. Ensure the locking lever on the quick release skewer is correctly tensioned, fully closed, and secured.</p>
3.Steering	<p>Ensure the handlebar and stem are correctly adjusted, tightened, and allow proper steering. Perform a handlebar twist test to ensure the stem clamp bolt security. Ensure the handlebar is set correctly in relation to the fork and the direction of travel</p>
4.Chain	<p>Ensure the chain is clean, oiled, and runs smoothly. Extra care is required in wet, salty/otherwise corrosive, or dusty conditions.</p>
5.Bearings	<p>Ensure all bearings are lubricated, run freely, and display no excess movement, grinding, or rattling. Check headset, wheel bearings, pedal bearings, and bottom bracket bearings.</p>
6.Cranks and Pedals	<p>Ensure pedals are securely tightened to the cranks. Ensure the cranks are securely tightened and are not bent.</p>
7.Derailleur and Mechanical Cables	<p>Check that the derailleur is adjusted and functioning properly. Ensure the shifter and brake levers are attached to the handlebar securely. Ensure all shifter and brake cables are properly lubricated.</p>

<p>8.Frame, Fork, and Seat</p>	<p>Check that the frame and fork are not bent or broken. If either frame or fork are bent or broken, they should be replaced. Check that the seat is adjusted properly, and seatpost quick release lever is securely tightened.</p>
<p>9.Motor Drive Assembly and Throttle</p>	<p>Ensure hub motor is spinning smoothly and motor bearings are in good working order. Ensure all power cables running to hub motor are secured and undamaged. Make sure the hub motor axle bolts are secured and the torque arm, torque arm bolt, and torque washers are in place.</p>
<p>10.Battery</p>	<p>Ensure battery is charged before use. Ensure there is no damage to battery. Lock battery to frame and ensure that it is secured. Charge and store bike and battery in a dry location, between 50 °F - 77 °F (10 °C - 25 °C). Let bike dry completely before using again.</p>
<p>11.Electrical Cables</p>	<p>Look over connectors to make sure they are fully seated and free from debris or moisture. Check cables and cable housing for obvious signs of damage. Ensure front light is functioning, adjusted properly, and unobstructed.</p>
<p>12.Accessories</p>	<p>Ensure all reflectors are properly fitted and not obscured. Ensure all other fittings on bike are properly secured and functioning. Inspect helmet and other safety gear for signs of damage. Ensure rider is wearing a helmet and other required riding safety gear. Ensure mounting hardware is properly secured if fitted with a front rack, rear rack, basket, etc. Ensure the taillight and taillight power wire are properly secured if fitted with rear rack. Ensure the fender mounting hardware is properly secured if fitted with fenders. Ensure there are no cracks or holes in fenders. If installed, ensure the optional rear wheel lock is secured in the unlocked position and the key is removed before every ride.</p>



After the initial break-in period of 50-100 miles (80-160 km), your cables, spokes, and chain may stretch, and bolted connections can loosen. It is essential to have a certified, reputable bike mechanic perform a tune-up after this break-in period, which can vary based on factors like total weight, riding style, and terrain. Regular inspections and tune-ups are crucial to ensuring your bike stays safe and enjoyable to ride.

Recommended Service Intervals

Regular inspection and maintenance are key to ensure bikes from Freesky function as intended and to reduce wear and tear on their systems. Recommended service intervals are meant to be used as guidelines. Real-world wear and tear, and the need for service will vary with the condition of use. We generally recommend inspections, service, and necessary replacements be performed at the time or mileage interval that comes first in the following table.

Interval	Inspect	Service	Replace
Weekly, 100-200 miles (160-321 km)	<ol style="list-style-type: none"> 1. Check drivetrain for proper alignment and function (including the chain, freewheel, chainring, and derailleur). 2. Check wheel trueness and for quiet wheel operation (without spoke noise). 3. Check condition of frame for any damage. 	<ol style="list-style-type: none"> 1. Clean frame by wiping frame down with damp cloth. 2. Use barrel adjuster(s) to tension derailleur/brake cables if needed. 	<ol style="list-style-type: none"> 1. Replace any components confirmed by Freesky, Product Support or a certified, reputable bike mechanic.
Monthly, 250-750 miles (402-1207km)	<ol style="list-style-type: none"> 1. Check bike is shifting properly, proper derailleur cable tension. 2. Check chain stretch. 3. Check spoke tension. 4. Check accessory mounting (rack mounting bolts, and alignment). 5. Check that the screws are secured 	<ol style="list-style-type: none"> 1. Clean and lubricate drivetrain. 2. Check crankset and pedal torque. 3. Clean brake and shift cables. 4. True and tension wheels if any loose spokes are discovered. 5. Balance the battery. 6. Tighten the screws. 	<ol style="list-style-type: none"> 1. Replace brake and shift cables if necessary. 2. Replace brake pads if necessary.
Every 6 Months, 750-1250 miles (1207-2011km)	<ol style="list-style-type: none"> 1. Inspect drivetrain (chain, chainring, freewheel, and derailleur). 2. Inspect all cables and housings. 	<ol style="list-style-type: none"> 1. Standard tune-up by certified, reputable bike mechanic is recommended. 2. Grease bottom bracket. 	<ol style="list-style-type: none"> 1. Replace brake pads. 2. Replace tires if necessary. 3. Replace cables and housings if necessary.