

TRAILMATE ELECTRIC-TRIKE CONVERSION KIT ASSEMBLY MANUAL

2/4/2015

The Trailmate electric trike conversion kit was designed for easy installation and assembly.



- **New Trike Assembly**

Remove all parts from the box and carefully unwrap.

Tool required: 8" crescent wrench, 9,10 and 11mm socket wrench, Allen wrenches, pliers, Phillips screwdriver, air pump.

- **Fork Assembly**



Loosen the headset and remove the original front fork from the frame.
Mount new pre-assembled fork to the frame and tighten headset.

• Wheel and Front Fender

Attach the front fender to the front fork with the bracket at rear of fork.

• Throttle Grip and Brake

Install safety brake lever onto the right side of handlebar, then install throttle control.

Position levers in comfortable location so the locking lever does not interfere with the throttle control cable.

Tighten each lever in place with the Allen screws.

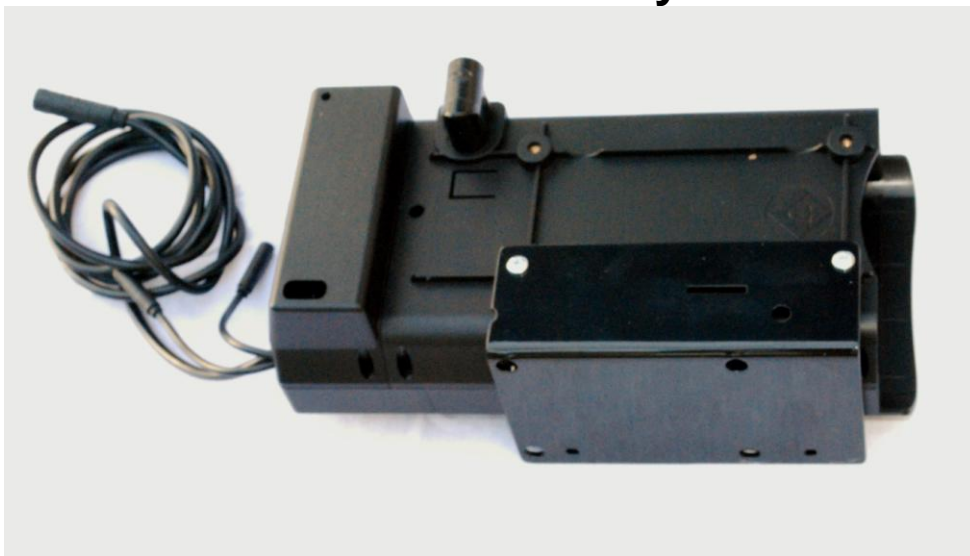
Install left hand grip onto handlebar.

Install the brake calipers onto the fork, aligning brake shoes for proper contact with the rim.



Attach brake cable to brake lever and connect to calipers.
Tighten cable to ensure proper brake function.

• Controller/Battery Pack



Slide sealed Lithium Ion battery pack into the control case. The mounting bracket should already be securely attached and ready to be mounted to the frame. Note the key to lock the battery to the controller case and main power switch on the battery case.

• Mounting Battery Pack

The battery mounting bracket is to be secured to the trike transmission box with two screws and nuts. Use holes at front of transmission box for mounting.

- **Battery Case and controller mounting**

Remove fasteners from hardware pack and align the mounting bracket with the two front holes of the transmission box. Fasten to box with two #10 Hex screws and nuts- Control wires will extend from the battery case to the right side of the frame.

- **Wiring Harness to Frame**

Run wires along frame and secure with wire ties. There are tabs along the front fork to secure the wire to the fork blade.



Route wires along the fork then along the bottom of the frame. The motor connector is securely plugged into the controller connector and wire tied to the fork. Use alignment arrows for correct pin connections. Use wire ties to secure control wires to the frame.

Ensure there is some slack to allow for steering.

- **Battery installation and Connection**

Connect all plugs to the battery case from throttle and brake cables. Use alignment arrows to ensure proper pin connections..



The Lithium Ion battery can be easily disconnected for storing and charging using the automatic charger. Battery should be fully charged overnight before use.

Be sure to use the main switch to turn off the battery when not in use.

MAINTENANCE AND INSPECTION

REGULAR MAINTENANCE: Bi-Monthly

1. Keep all painted parts cleaned and waxed for a long-lasting luster.
2. Spray all chrome parts with recommended protective spray coating (LPS-1, WD-40, etc.). When spraying with protective coatings, it is recommended that you let parts set overnight so the coating will penetrate.
3. Lubricate the following:
 - a. Pivot points at top and bottom of seat
 - b. Axle shafts
 - c. Inside bearings of both pedals
 - d. Chain – turn pedal crank forward and spray freely
4. When storing over prolonged periods, turn upside down to prevent flat spots from occurring on the tires. If stored outside, cover to protect finish and moving parts.

PREVENTATIVE MAINTENANCE: Every Six Months

These are services that should be performed by your local bicycle shop. A fee may be charged.

1. Check tires for wear, rim cuts, and valve core alignment (usually caused by improper air pressure).
2. Check wheels for cracks and alignment.
3. Check brakes for proper operation.
4. Clean and repack all bearings and adjust all cones.
5. Check for worn bearings, cones, and cups.
6. Check chain for adjustment and clean as needed.
7. Check for loose bolts and nuts.

INSPECTION

Check the following, as it applies to your cycle, on a regular basis:

1. Wire harness – Make sure the connectors are firmly plugged in and secured to the frame.
2. Wheels – Check wheels for alignment.
3. Pedals – Inspect pedal bearings and make sure pedal is tightly attached to crank.
4. Handle grips – Replace worn or loose grips.
5. Chain – Check for proper tightness. Replace damaged chain immediately.
6. Seat – Adjust seat for rider comfort and safety.
7. Tires – Keep tires inflated to the recommended tire pressure, as indicated on the tire's sidewall.
8. Chainguard – Replace damaged or missing chainguard immediately.
9. Frame – Replace damaged frame immediately.

Trailmate Owner's Guide

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Visit us @ www.trailmate.com

**For service or to order
replacement parts please contact your
local Trailmate dealer.**

This is a recreational unit, not designed for excessive speeds or misuse.

Do not brake or turn at high speeds. This may cause cycle to roll over.

Careless operation may cause rider to lose control and result in **serious injury**.

Things to know before riding your cycle:

1. Know your local bicycle laws and wear a helmet.
2. Do not exceed the recommended weight limit of 250 lbs.
3. No more than one rider at one time.
4. Do not stand on unit.
5. Be sure to install safety flags.
6. Wear light-colored clothing and protective gear.
7. Do not ride at night.
8. Children must be supervised by an adult at all times.