

XTRACYCLE

RFA Sport Assembly Guide

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This guide is designed to help you assemble an Xtracycle RFA in Sport mode as efficiently as possible. Please follow the assembly instructions in order. While thorough, this guide is not exhaustive—you should already be familiar with all component installation and adjustment procedures.

Your e-bike will have pre-installed all bicycle components other than those listed below, and all Bosch components including battery.

The following items will be included in the box and will not be installed on the e-bike: pedals, headset, headset spacers, seatpost, stem, handlebars (with brake levers, shifters already mounted), Bosch Purion display, front brake caliper, chain, handlebar stabilizer, fork, front wheel, front brake rotor, front and rear e-bike specific lights, reflectors, and any additional ordered accessories.

Unboxing the RFA



- Open box
- Cut zip ties holding the fork to the frame and remove
- Remove small parts box



- Open small parts box and set aside
- Remove seat post from fit kit
- Apply grease to seat post and install into seat tube



- Lift RFA out of the box and mount in bike stand
- Remove front wheel



- Unclip handlebars and use a zip tie to hang them out of the way
- Remove all protective packaging

Installing the Fork



- Locate the headset in the small parts box
- Slide dust seal onto front fork crown race



- The larger of the two headset bearing retainers goes on the crown race, and the smaller goes on the top bearing cup
- Grease both bearing retainers



- Grease the steer tube and insert up through the head tube

Assembling Headset and Installing Stem, Handlebar & Headlight



- Stack top race, split race lock then FSA top cover



- Build up the headset stack using the spacers
- Install stem and top cap with M6 bolt and tighten until you've removed all end play in the headset



- Install handlebar faceplate with headlight mount facing down
- Torque all stem bolts and handlebar controls to 6Nm



- Install headlight with Allen key and 8mm open end wrench

Installing Purion Display and Handlebar Stabilizer



- Mount Purion display to the left side of the handlebars, right of the brake lever



- Be sure to position the display so it is visible from the seated position
- Secure with a 3mm allen wrench



- Locate the Handlebar Stabilizer spring in the small parts box
- Use pliers to assemble the stabilizer following the included instructions



- Install protective cover over stabilizer spring
- Be sure to tighten the fork bolt to prevent slippage when turning the wheel sharply.

Installing the Front Wheel, Brakes, Cranks and Pedals



- Remove thru-axle from fork dropouts, discard cardboard tube
- Position the wheel in the fork and reseat the axle
- Install brake rotor onto front wheel and torque to 40Nm



- Install front brake assembly (refer to the Shimano brake owner's manual for proper setup and installation)
- Use a zip tie to secure brake hose to fork cable boss



- Locate crank arms and crank bolts in small parts box
- Use 8mm Allen wrench to fasten crank arms with crank arm bolts and tighten to 40Nm with a torque wrench



- Grease threads and install left and right pedals

Mounting the Speed Sensor

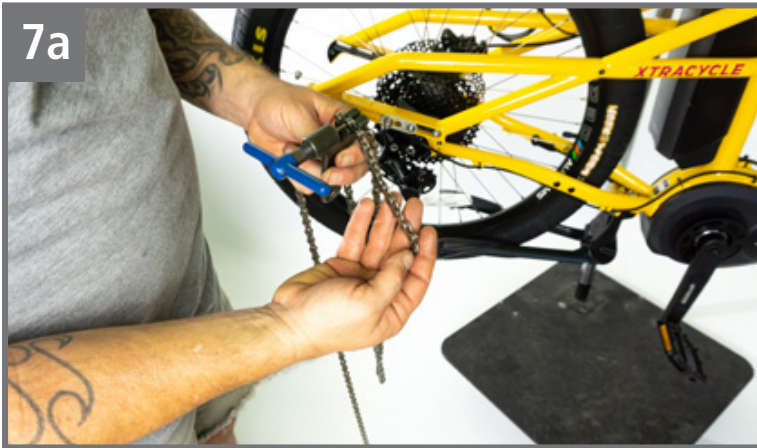


- Remove rear wheel
- Mount the speed sensor to frame in the forward position with a T-30 star bit (Note: the forward position is for Sport mode only)
- Feed excess cabling into the drive housing and coil and zip tie as needed



- Remount rear wheel
- Position sensor magnet on spoke opposite air valve and align with the sensor
- Apply blue Loctite or comparable threadlocker and secure with a Phillips head screwdriver, tightening to 1nM

Installing the Rear Wheel Chain



- Locate the chain in the small parts box
- For Speed drives remove 11 links from chain; for CX or Performance drives remove 9 links



- Feed chain through the derailleur



- Reconnect the chain with the quick link



- Engage the clutch

Installing the Sport Rack and Tail Light



- Align the front of the rack with the forward rack mounting position where the rear cross braces meet
- Loosely thread the front bolts on either side of the bike



- Lower the rear of the rack in line with the rear mounting points and thread the bolts through the lower slotted holes
- Torque all four bolts to 30Nm with a 5mm Allen key



- Feed the tail light cable along the inside of the non-drive side of the rack and use small zip ties to secure it in place



- Clip the end of the tail light cable into the tail light
- Align the two tail light mounting posts to the rear of the rack and secure them with the two M4 lock nuts using a 8mm wrench

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