



#### **TECHNICAL MANUAL**

## **SAFETY INFORMATION**



#### **PRE-RIDE CHECK**

- Frame and spindles for any cracks or damage
- Tires for proper inflation and wear
- Brakes and shifting for functionality
- Boom for tightness
- Check for anything that may have worked its way loose like handlebars, adjustable seat bracket, swing arm, suspended spindles or wheels

#### CATRIKE SAFETY

• Make sure your boom is adjusted to your leg length by a Catrike dealer

•All Catrikes are standard equipped with SPD Style Clipless pedals. <u>We strongly</u> recommend using clipless shoes for Catrike's SPD pedals to attach your feet securely to the pedals. If you are uncomfortable with clipless pedals, we recommend a pedal with heel support and straps that hold the foot securely to the pedals. Your Catrike dealer can help you with alternative options. IMPORTANT: DUE TO THE FORWARD PLACEMENT OF THE CRANKSET, IF YOUR FEET ARE NOT SECURED TO THE PEDALS, THEY COULD SLIP OFF PEDALS AND YOUR LEG CAN BE PULLED UNDER THE FRAME CAUSING SERIOUS INJURY.

• All Catrikes come standard with safety flags that extend upwards above rider height to be visible to motorists, cyclist and pedestrians. Front and rear lights are also recommended. Always be visible!

• All Catrikes come with a rear-view mirror. This is a useful tool to increase awareness of your surroundings.

• Always ride under control. Use a safe speed for your ability when negotiating corners and going down hills. Your trike can tip over if turned too sharply for a given speed. When possible lean into your turns. Never lean the opposite way of turning.

• Catrikes have two brakes - one on the right front wheel and one on the left

front wheel. The brake lever actuates each brake on the corresponding side. For smooth, controlled and safe braking, apply equal force to each lever. Just like on a bicycle, if you squeeze the brake levers in a panic situation, it can cause your front wheels to lock up and pitch you forward. Please take a moment to practice braking to better understand how your Catrike will perform in different stopping conditions.

• Catrike model 700 (only) parking brake safety. After coming to a complete stop pull the microSHIFT parking lever toward you to engage the brake. Before pedaling again release the parking brake by pushing the lever all the way forward. Important: The microSHIFT parking brake actuator on the Catrike 700 should not be engaged while the Catrike is in motion. This is a parking brake only and is not intended to be used to slow or stop the 700. Using the parking brake to slow or stop the 700 could result in loss of control of the trike leading to injury.

#### **GENERAL RIDING SAFETY TIPS**

• Obey all rules of the road and all local traffic laws.

• You are sharing the road or the path with others: motorists, pedestrians, and cyclists, respect their rights and interact in a safer manner.

- Ride defensively. Always assume that others do not see you.
- Look ahead and stay alert to be ready to avoid accidents.

• Ride in designated bike lanes or on designated bike paths in the direction of traffic flow or as directed by local signage.

• Stop at stop signs and traffic lights; slow down and look both ways at street intersections. Be prepared to yield even if you have the right of way.

• Use approved hand signals for turning and stopping.

• Never ride with headphones. They mask traffic sounds and emergency vehicle sirens and distract you from concentrating on what's going on around you.

- Do not weave through traffic or make any moves that may surprise others.
- Never ride your Catrike while under the influence of alcohol or drugs.
- Always wear a properly fitted cycling helmet.
- Always ride safely and be aware of your surroundings.

# **SAFETY INFORMATION: ELECTRIC SYSTEM**



#### CATRIKE ELECTRIC ASSIST MODELS

•We recommend electric assist eCatrike users should be 16 and older or have extensive training and adult supervision.

•Always disconnect the Bosch harness before folding the eCat Dumont, 5.5.9. or Trail. Folding a Catrike while the harness is connected can cause damage to the battery connection and harness.

#### **BATTERY SAFETY**

•Be sure to review the original Bosch operating instructions for charger and rechargeable battery.

•Keep the instructions. Make the instructions available to any other user.

•Do not ship a rechargeable battery, as rechargeable batteries must be handled separately as hazardous goods.

•Do not open, damage or repair the charger or the rechargeable battery.

• Protect charger and battery from heat and strong sunlight.

#### CHARGING SAFETY

•Only use intact charger and rechargeable batteries.

- •Only use the specified charger for charging.
- •Choose an indoor location that is ventilated, dry, dust-free, and has a smoke detector.
- •Place the charger and the rechargeable battery on a fireproof surface when charging.
- •The charger, rechargeable battery and plug must not be in a damp or wet state.

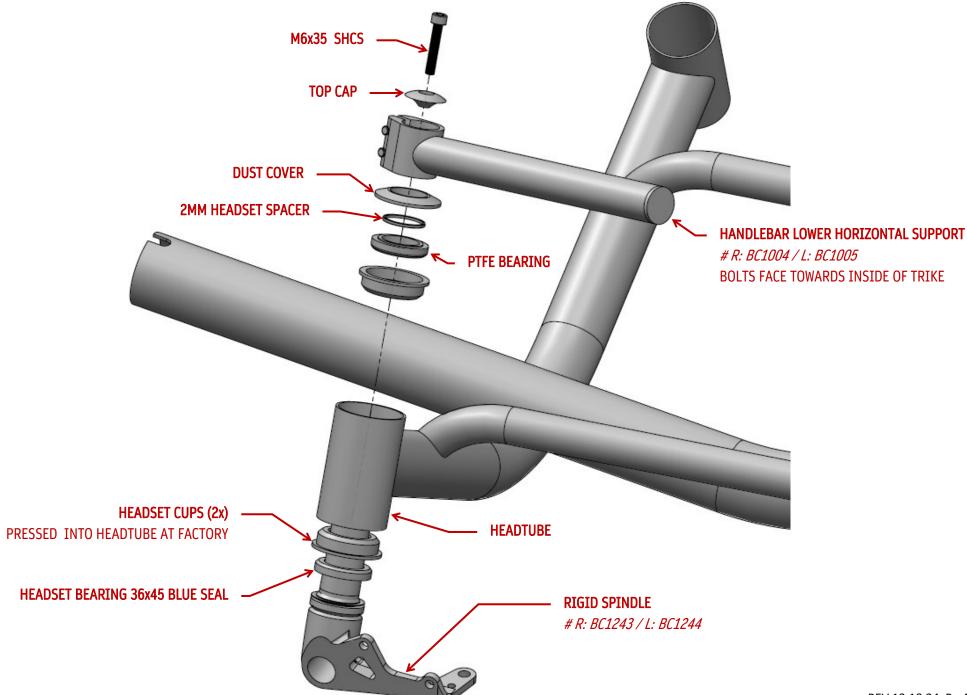
•Also check the contacts of the rechargeable battery. Moisture must not be allowed to condense on the rechargeable battery.

•Do not cover charger and rechargeable battery with textiles or flammable material.

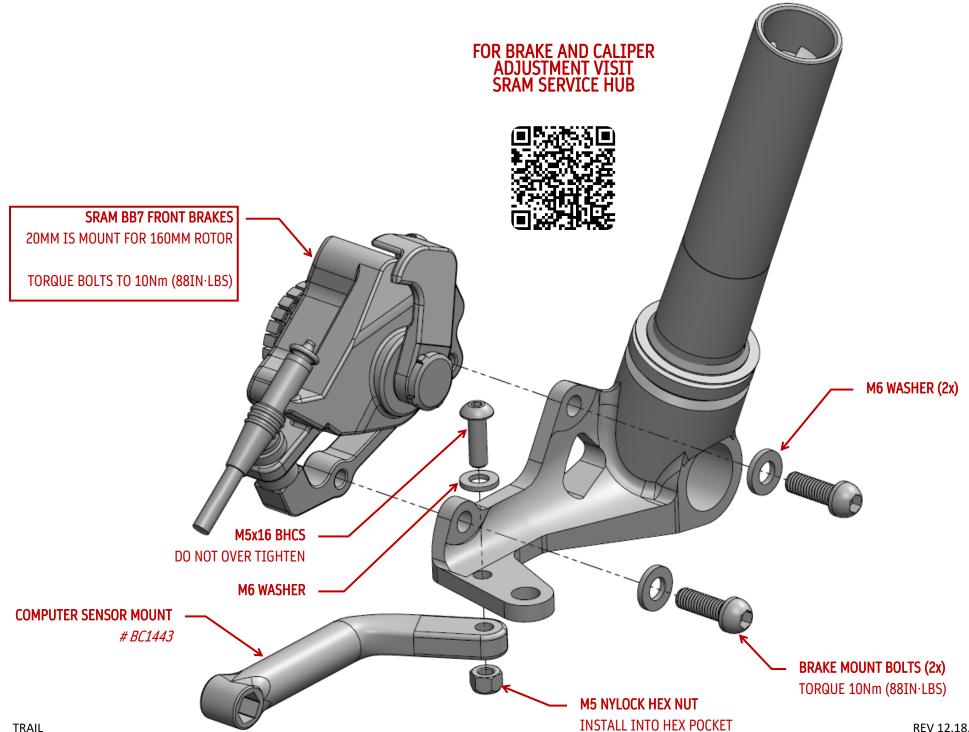
•Do not leave a charging battery unattended for an extended period of time.

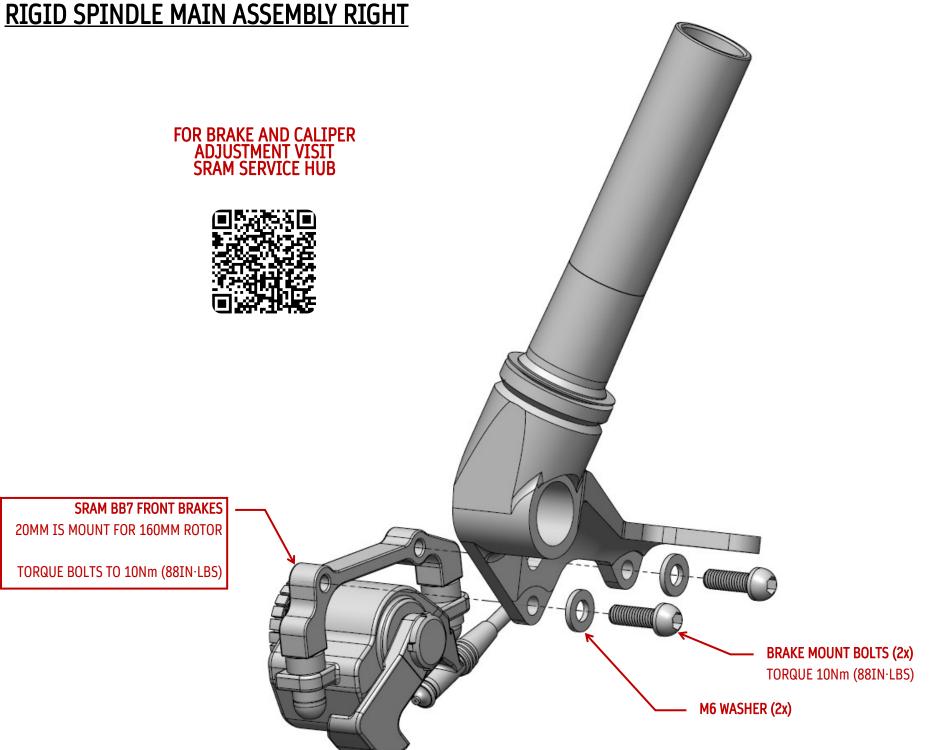
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#### **HEADSET ASSEMBLY**

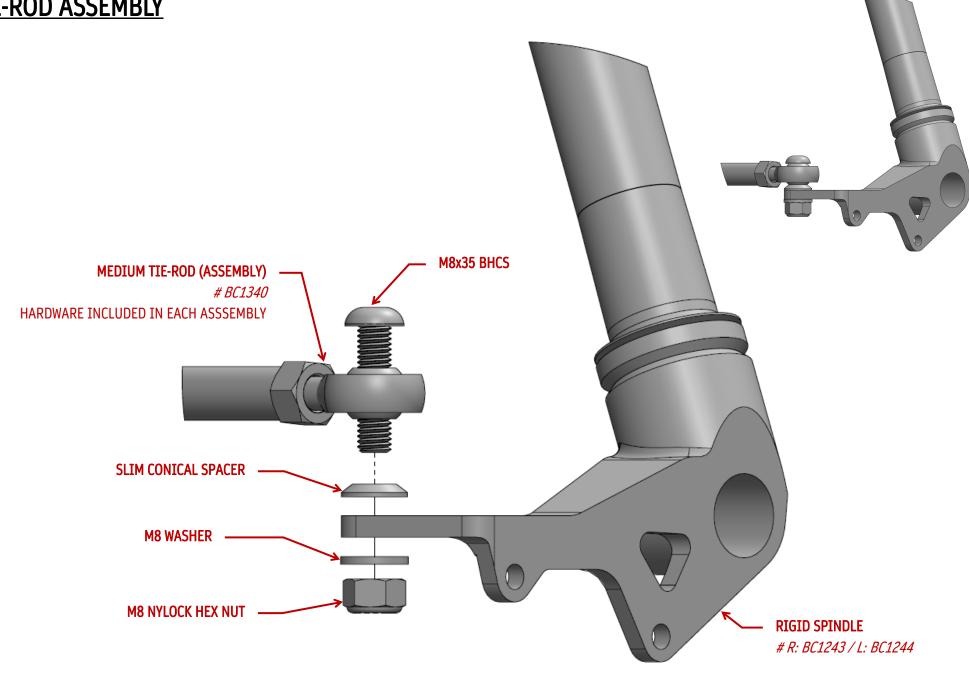


#### **RIGID SPINDLE MAIN ASSEMBLY LEFT**



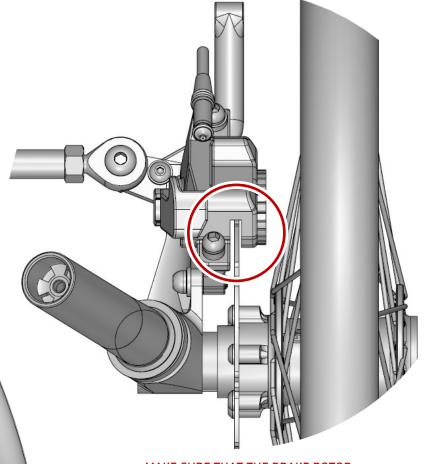


## TIE-ROD ASSEMBLY

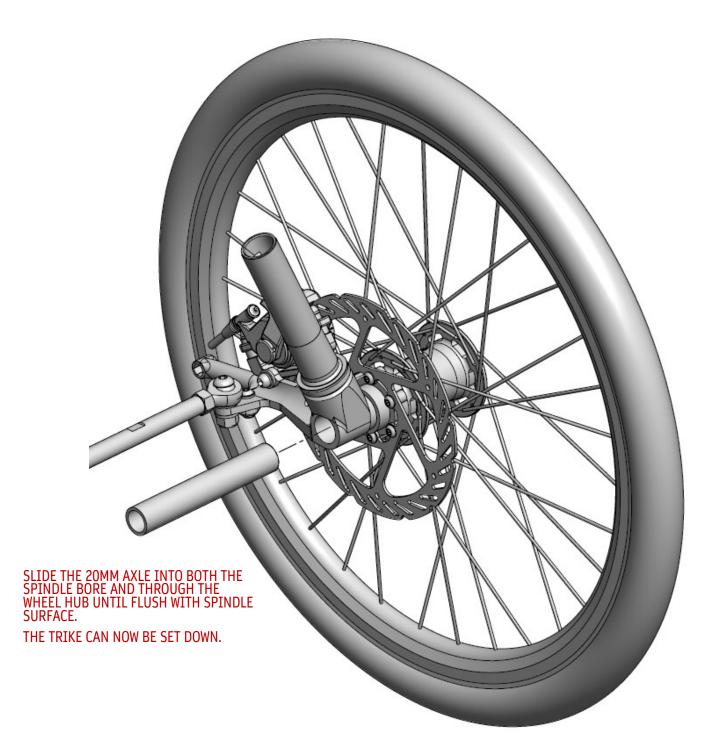


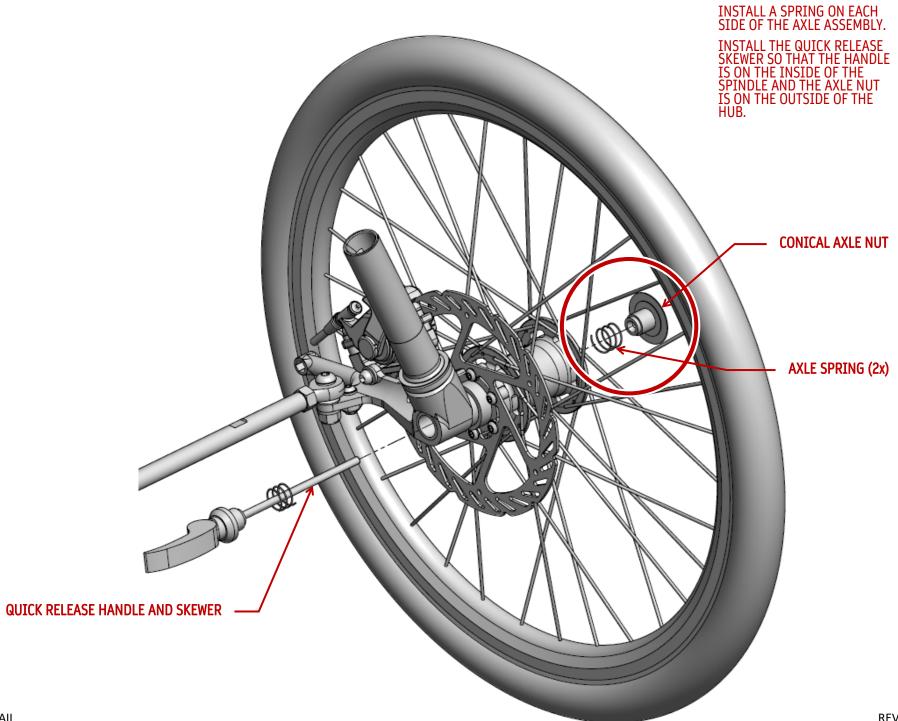


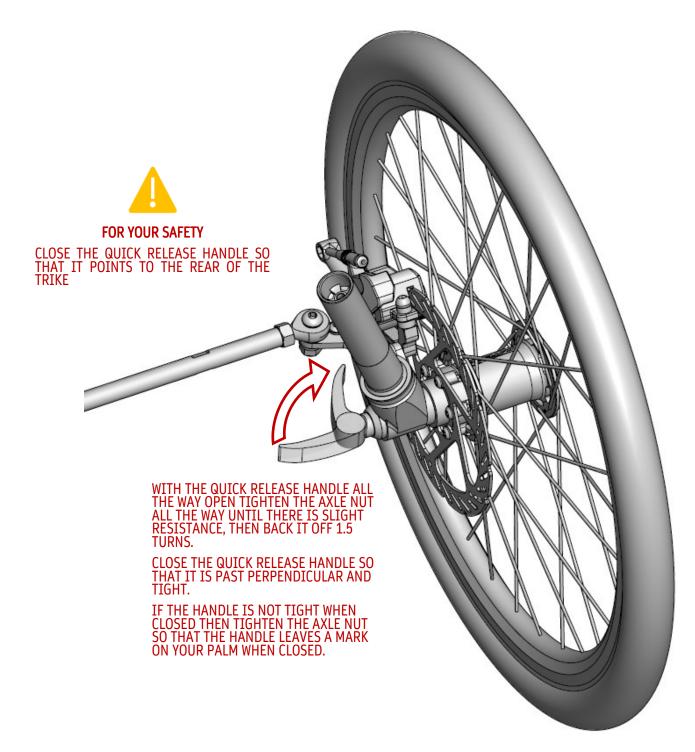
CHECK MARKINGS ON DISK BRAKE FACE AND WHEEL TO ENSURE THE WHEEL ROTATION DIRECTION IS CORRECT.

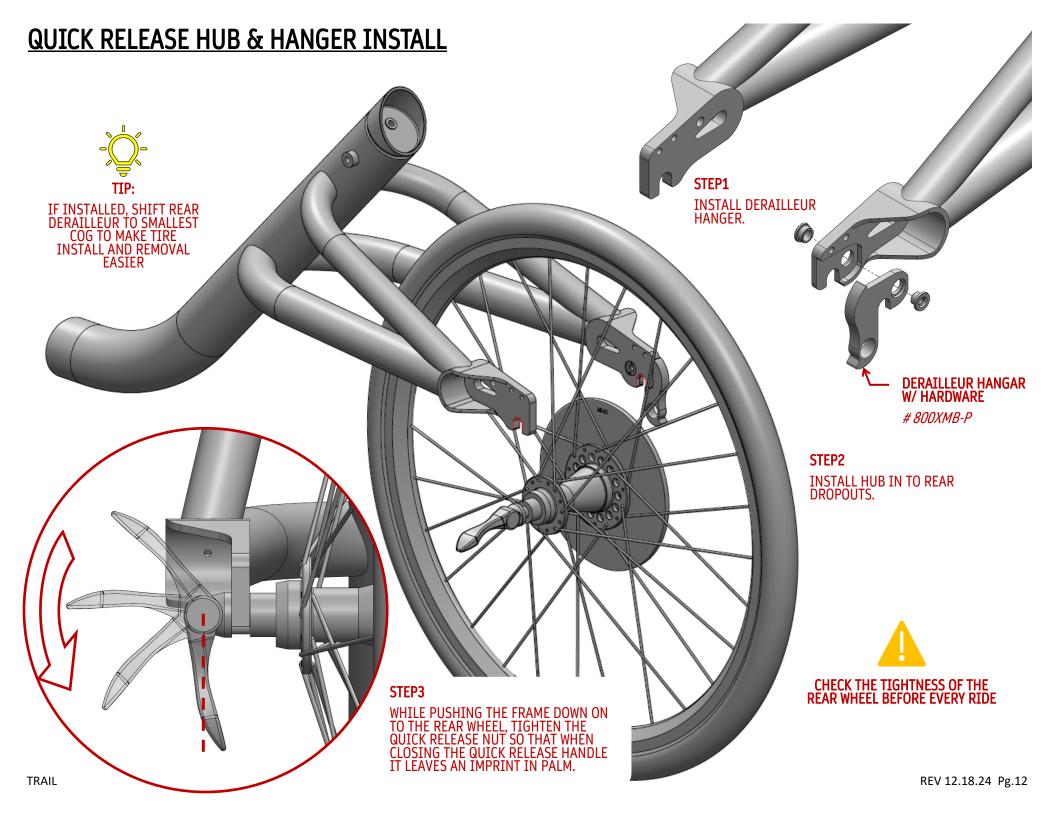


MAKE SURE THAT THE BRAKE ROTOR GOES IN THE CALIPER OPENING WHEN INSTALLING THE WHEEL.

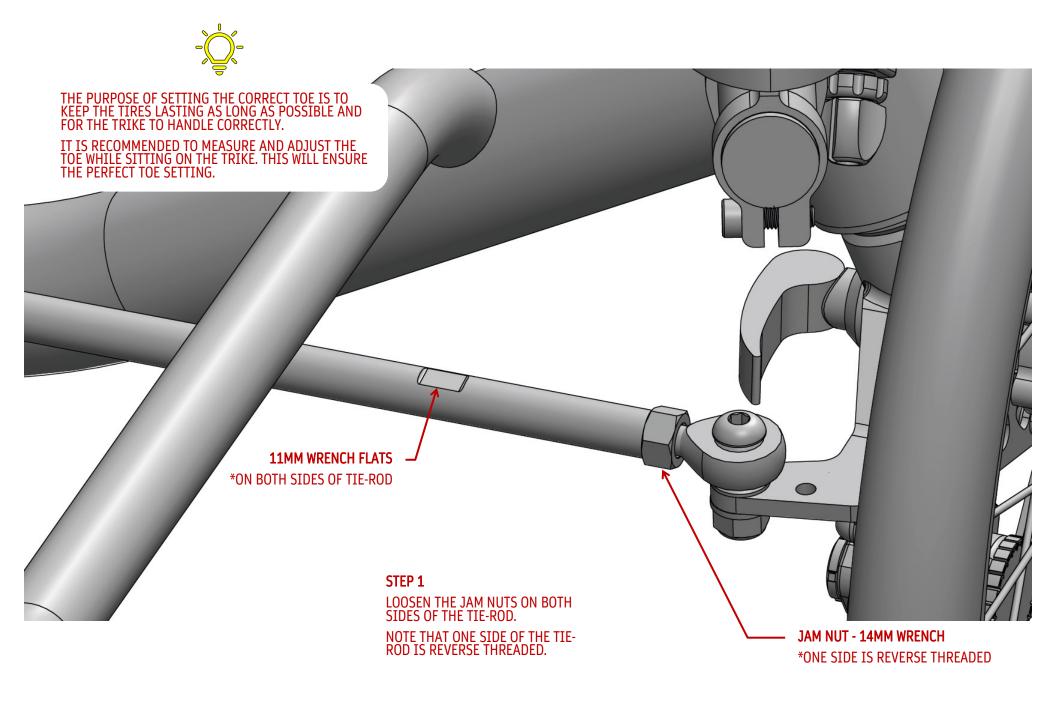








## **TIE-ROD ADJUSTMENT**



### **TIE-ROD ADJUSTMENT CONTINUED**

STEP 2

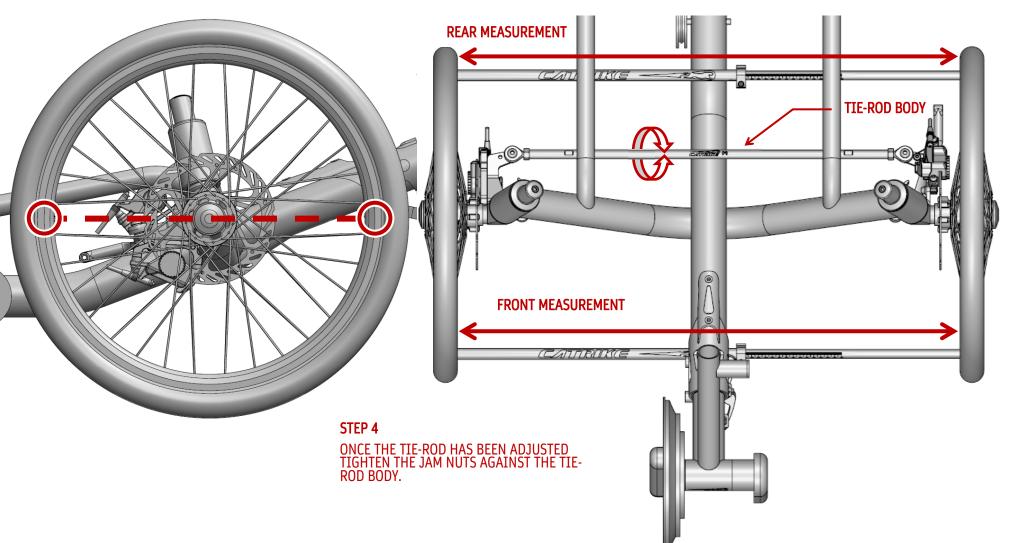
WITH THE WHEELS POINTING AS STRAIGHT AS POSSIBLE, USE THE CALIBRO OR A TAPE MEASURE TO MEASURE ACROSS THE FRONT WHEELS AT THE RIM FROM AXLE HEIGHT; TWO POINTS CIRLCED BELOW.

#### STEP 3

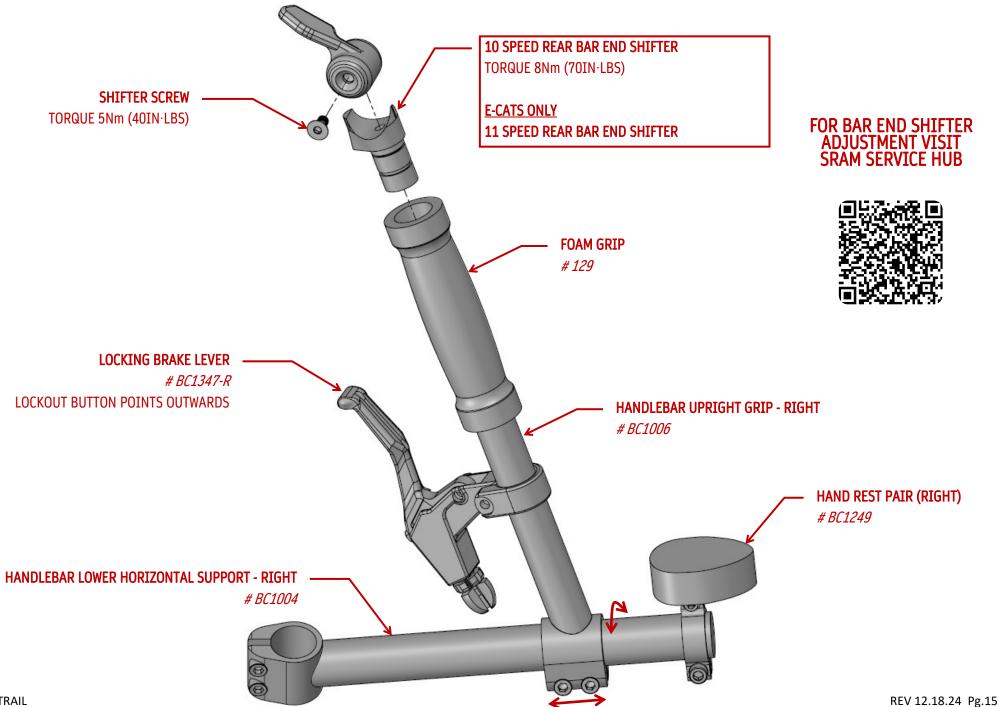
COMPARE THE MEASUREMENTS FROM BOTH SIDES, ADJUST THE TIE-ROD BY SPINNING THE MAIN BODY SO THAT THE FRONT AND REAR MEASUREMENT ARE EQUAL WHILE SITTING ON THE TRIKE.

IF IT IS NOT POSSIBLE TO SIT ON THE TRIKE WHILE ADJUSTING TOE, THEN TOE THE WHEELS IN 2MM. IN OTHER WORDS THE MEASUREMENT FROM THE FRONT SHOULD BE 2MM SMALLER THAN THE MEASUREMENT TAKEN FROM THE REAR OF THE RIM.

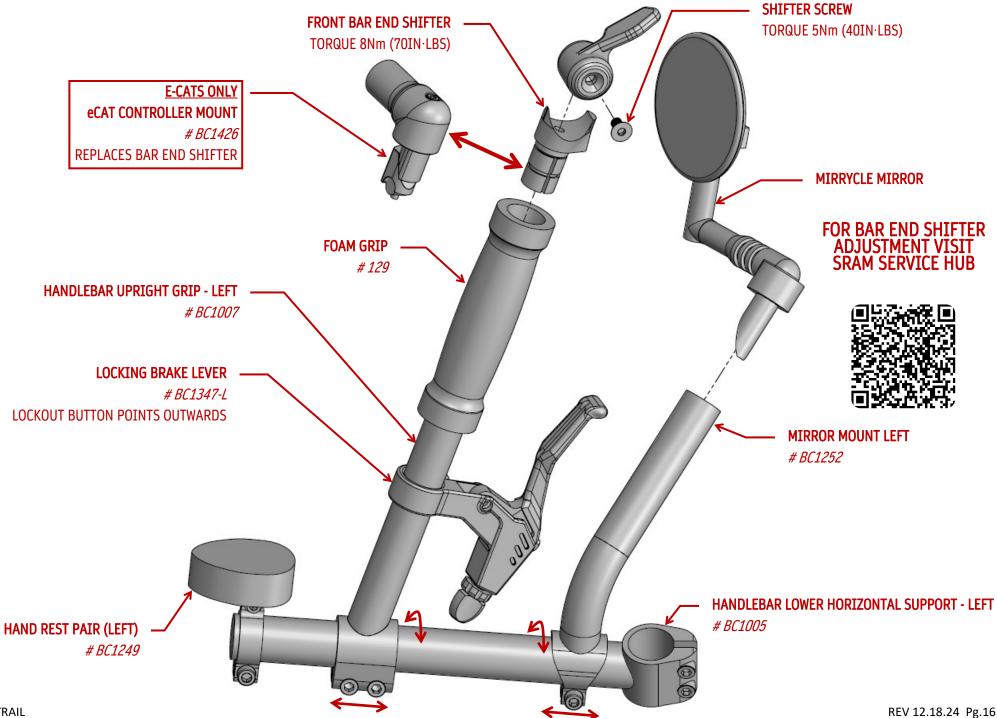
AS RIDER WEIGHT IS APPLIED TO THE CATRIKE THE TOE WILL BECOME MORE EQUAL.



## STANDARD HANDLEBAR ASSEMBLY RIGHT



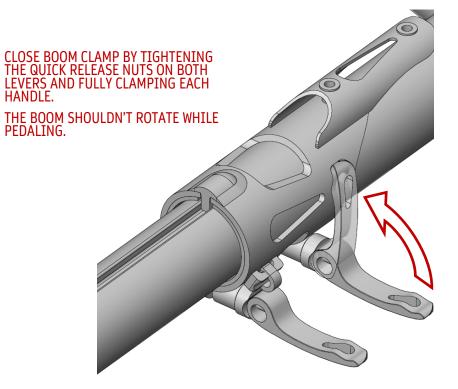
#### STANDARD HANDLEBAR ASSEMBLY LEFT



### **BOOM ADJUSTMENT**



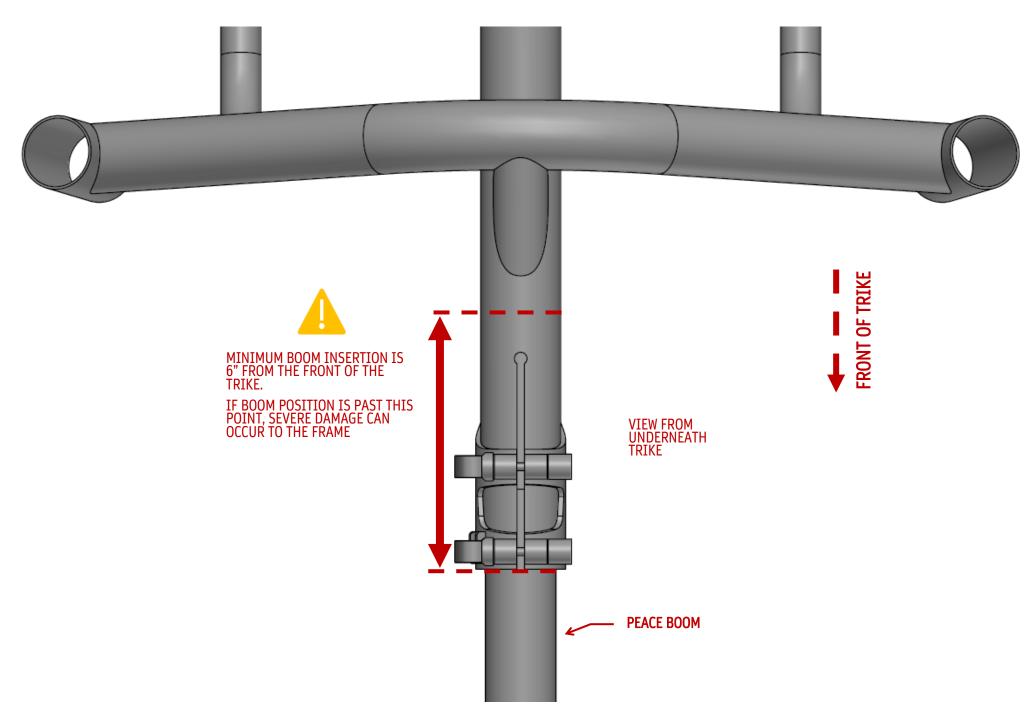




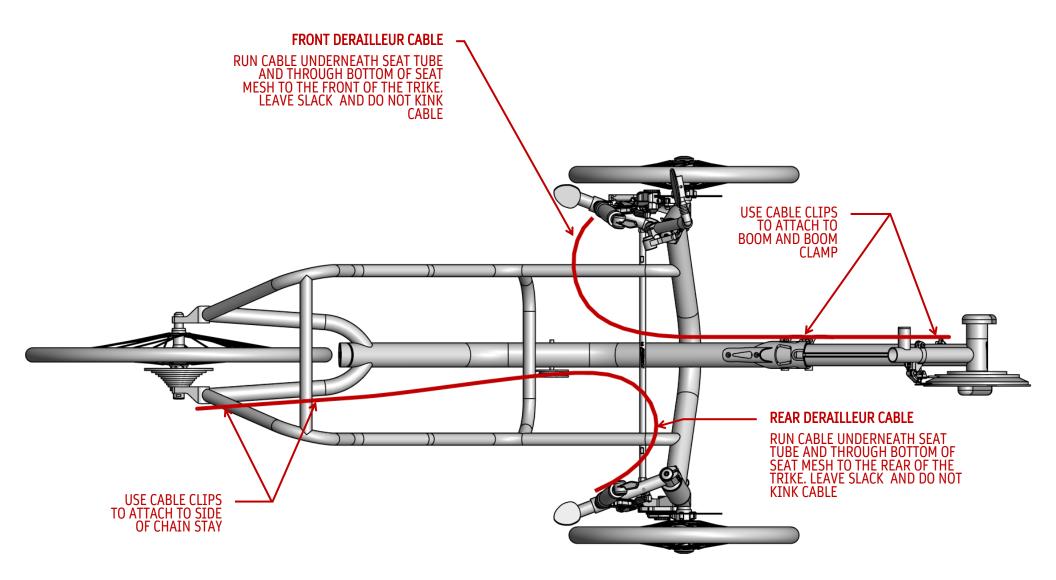


TRAIL

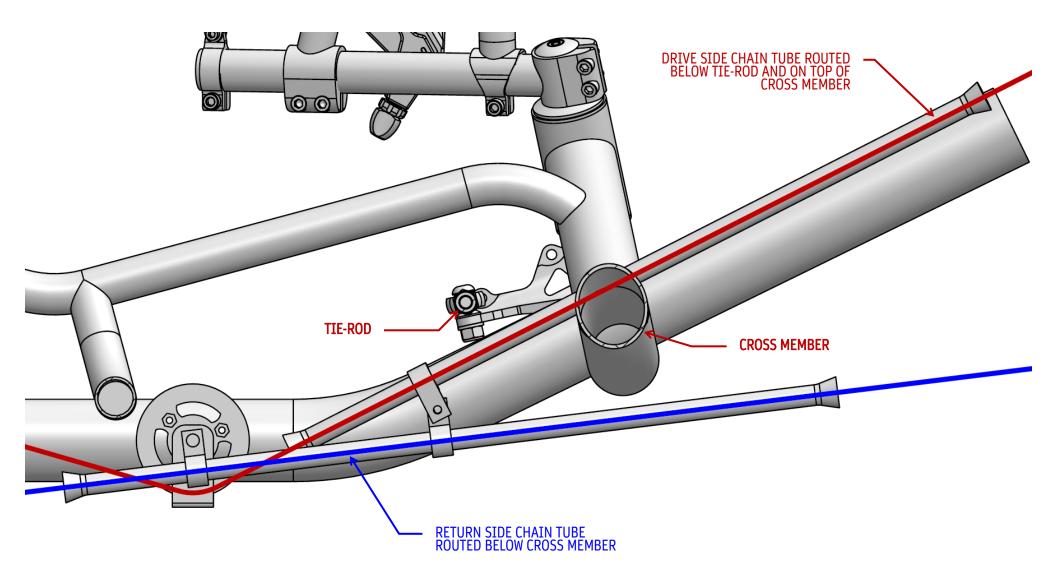
## **BOOM INSERTION**

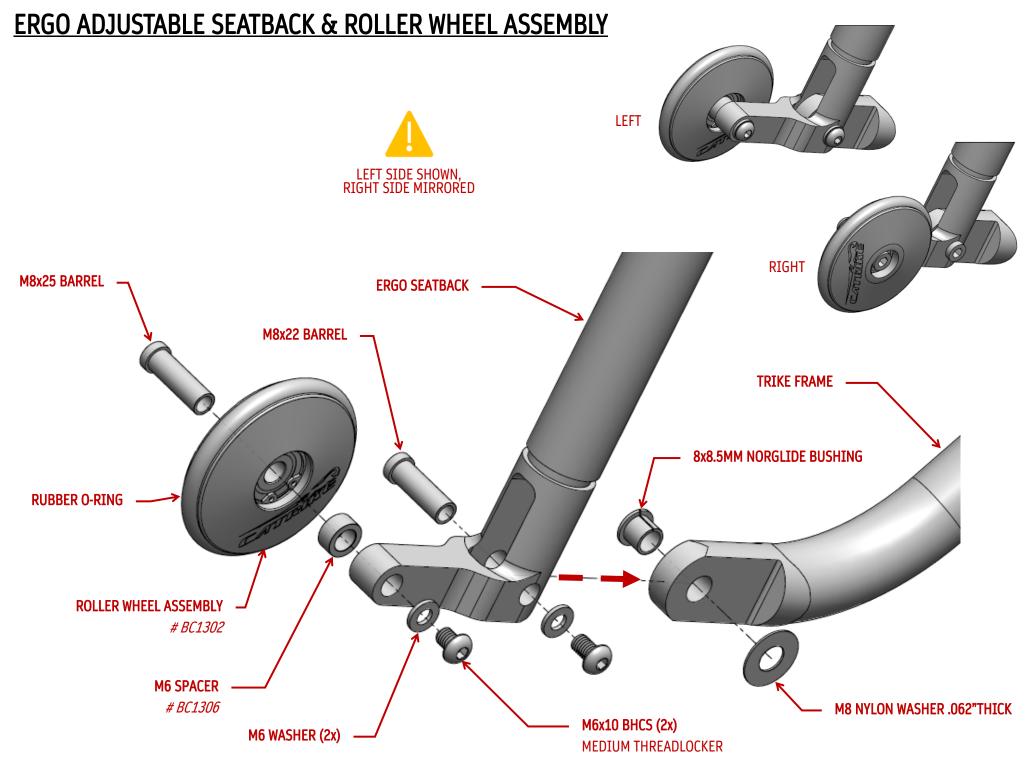


## **CABLE ROUTING**

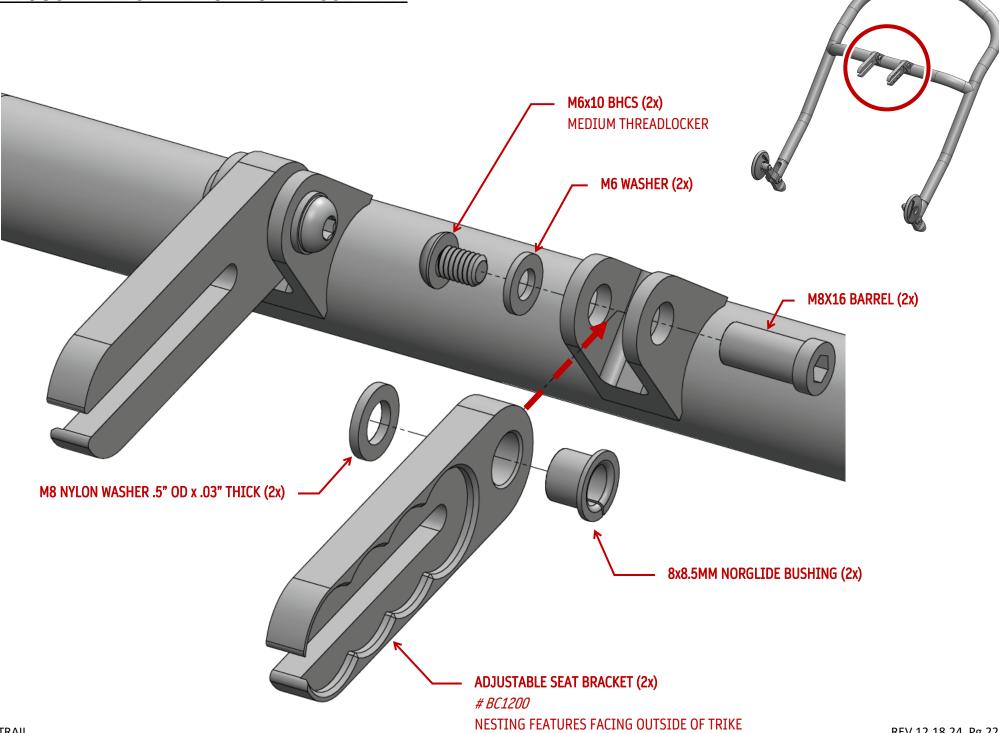


## **CHAIN ROUTING**

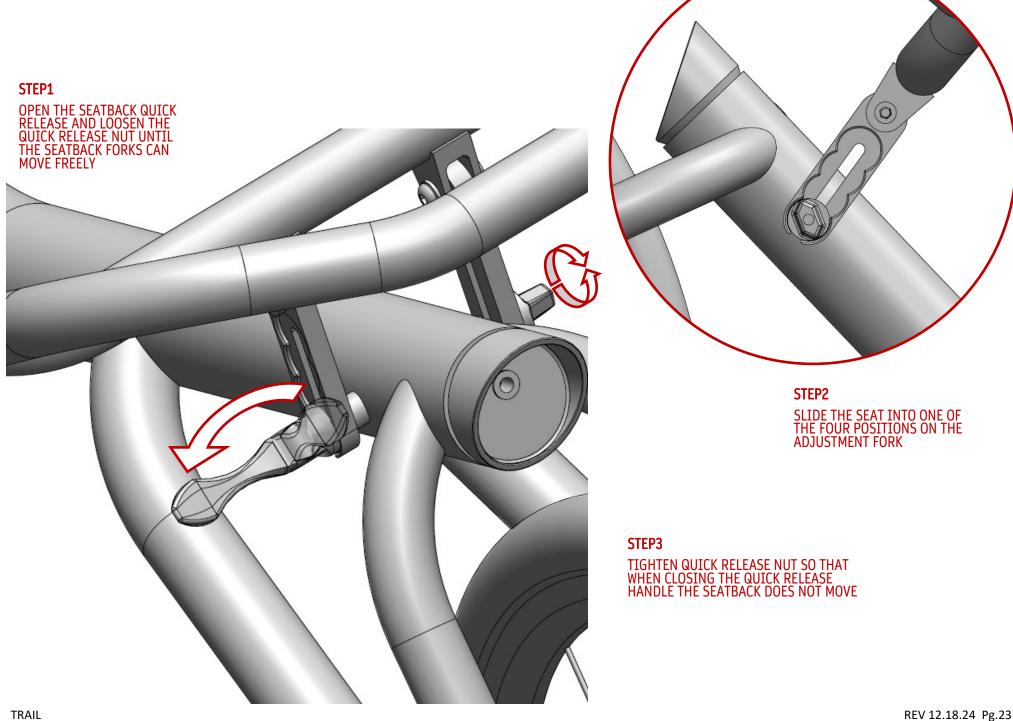




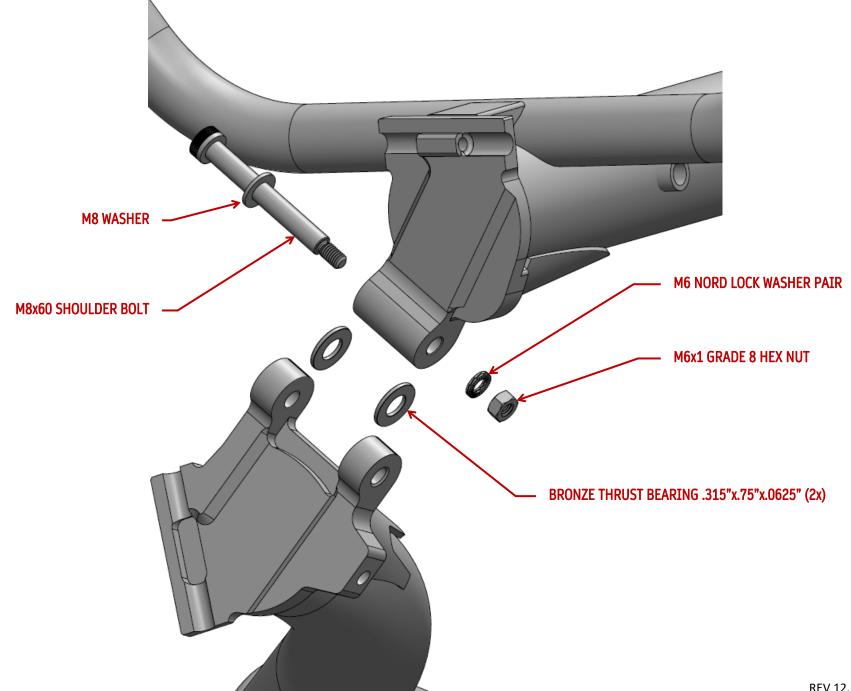
#### ADJUSTABLE SEATBACK FORK ASSEMBLY

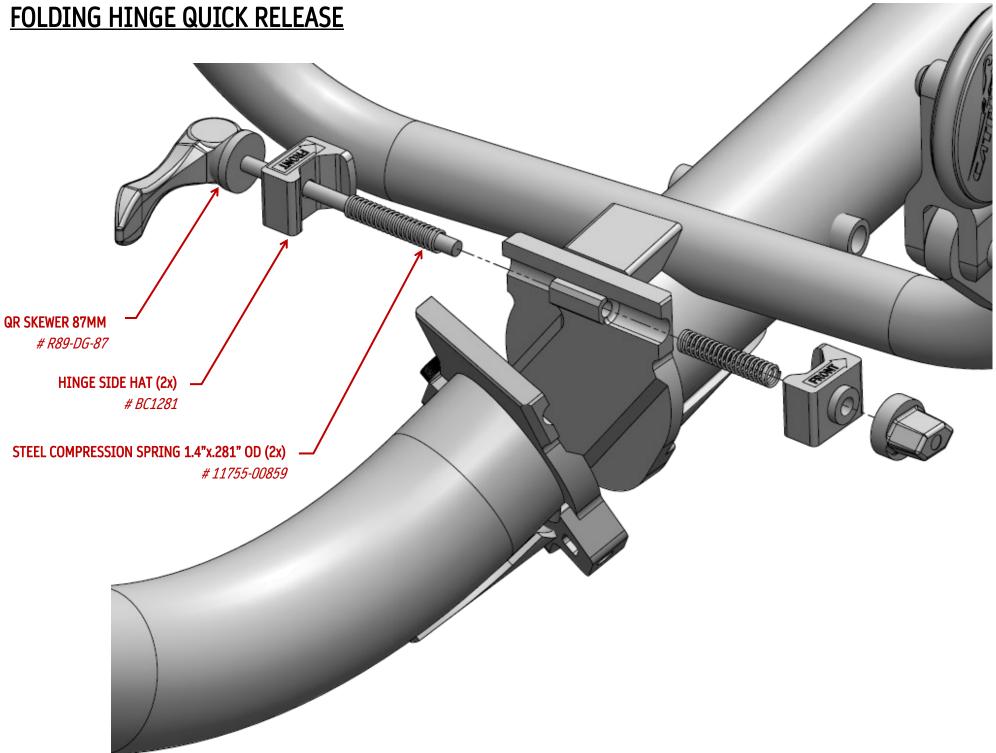


#### **ADJUSTABLE SEATBACK ADJUSTMENT**

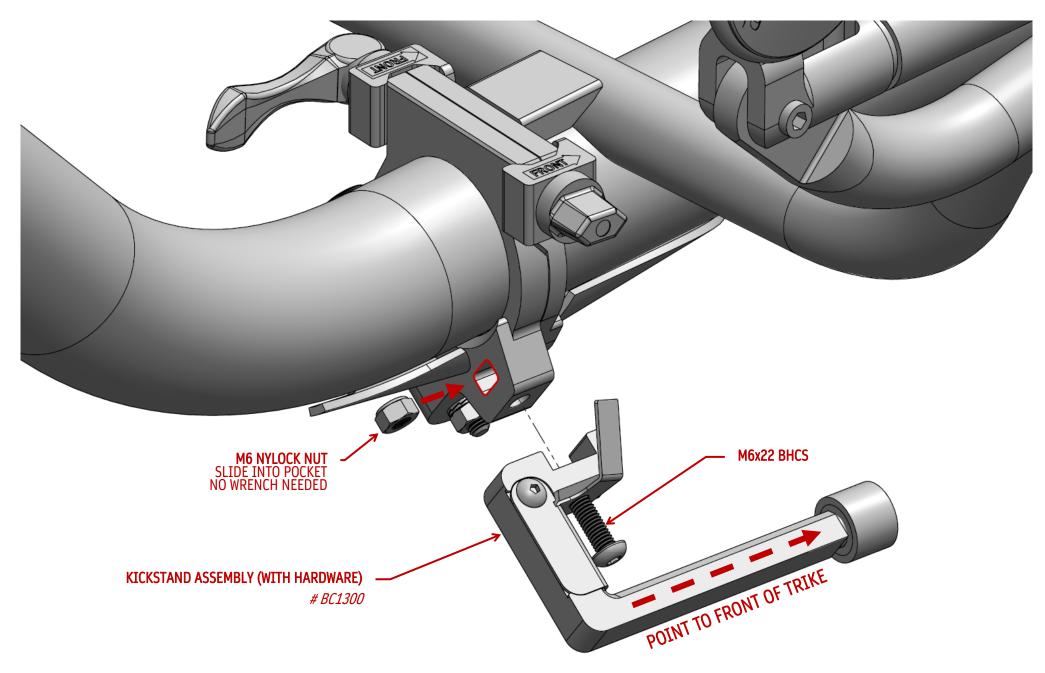


## FOLDING HINGE HARDWARE

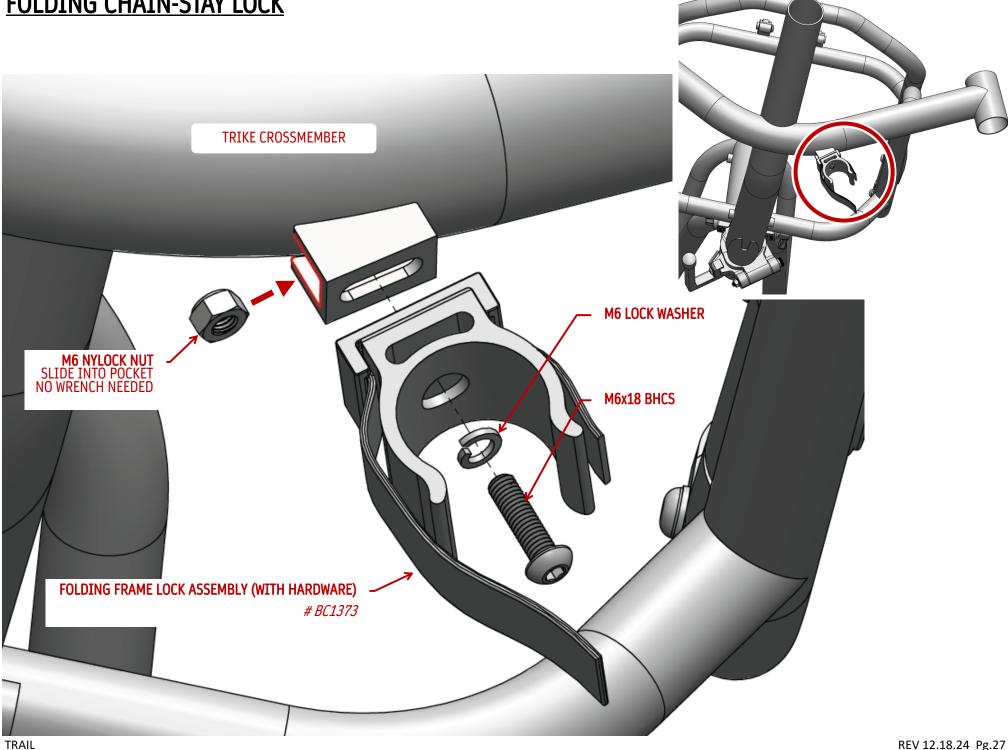




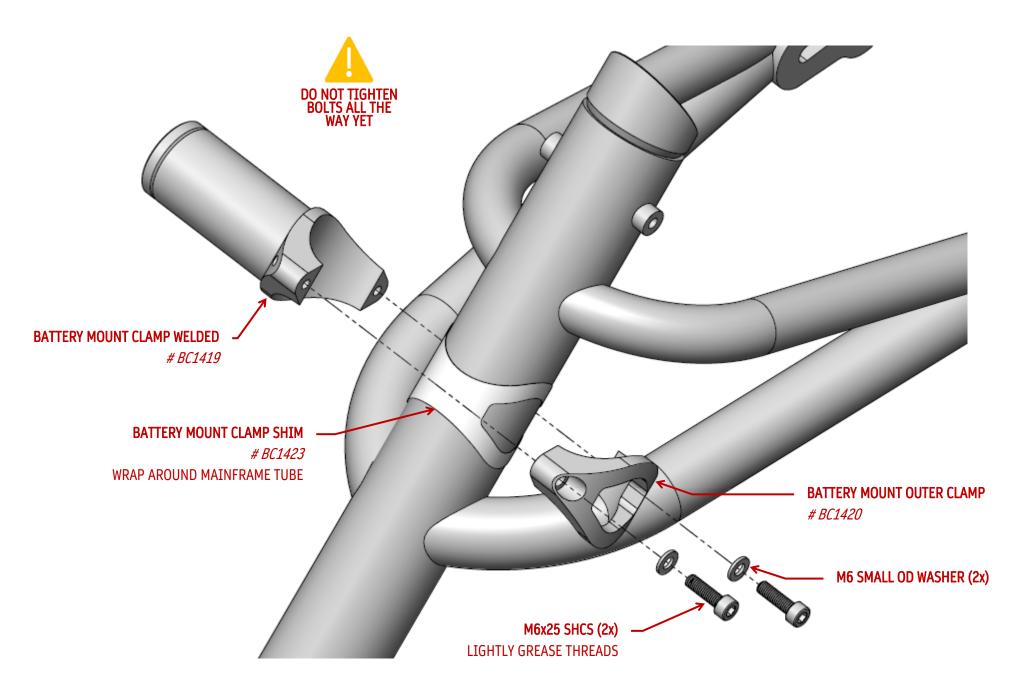
## FOLDING CHAIN-STAY LOCK



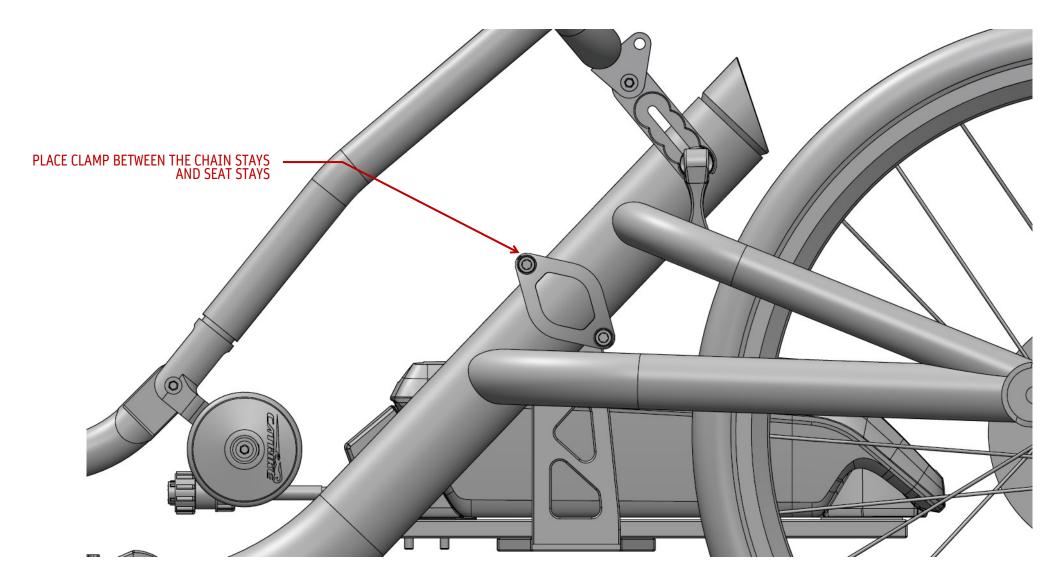
## FOLDING CHAIN-STAY LOCK



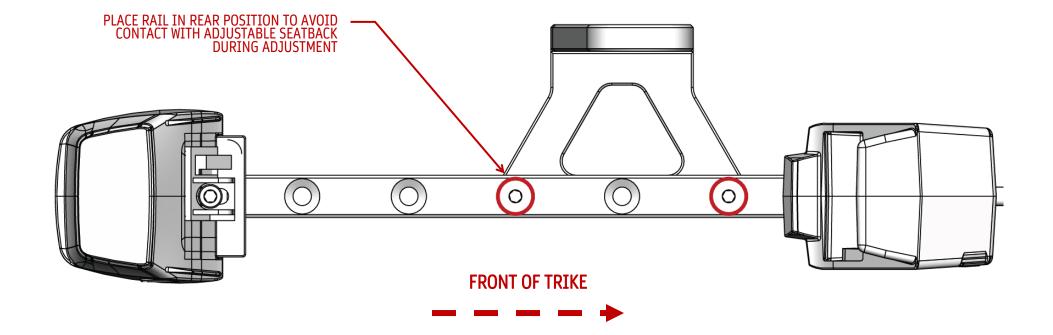
### **EKIT BATTERY CLAMP ASSEMBLY**



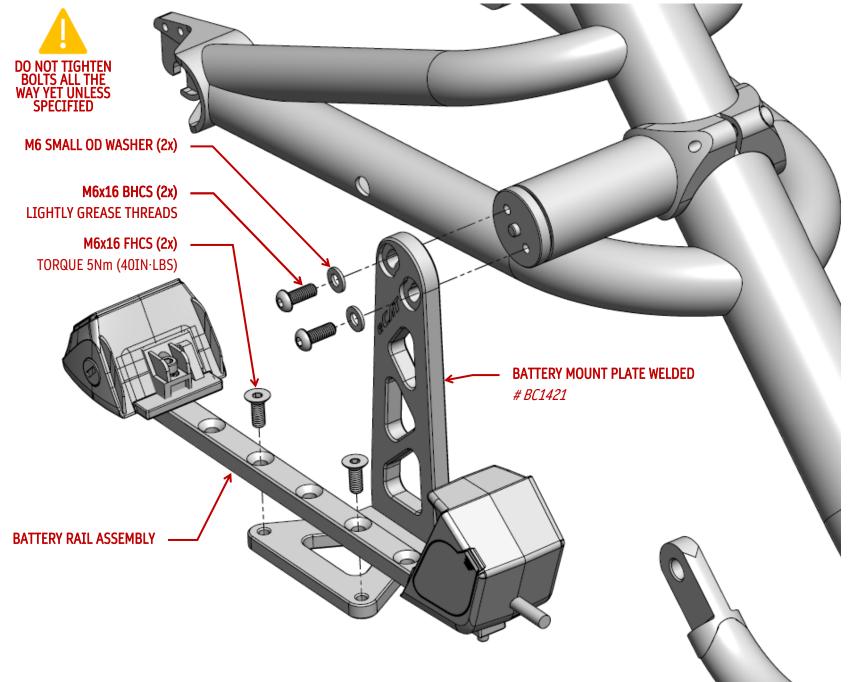
## **EKIT BATTERY CLAMP POSITION**



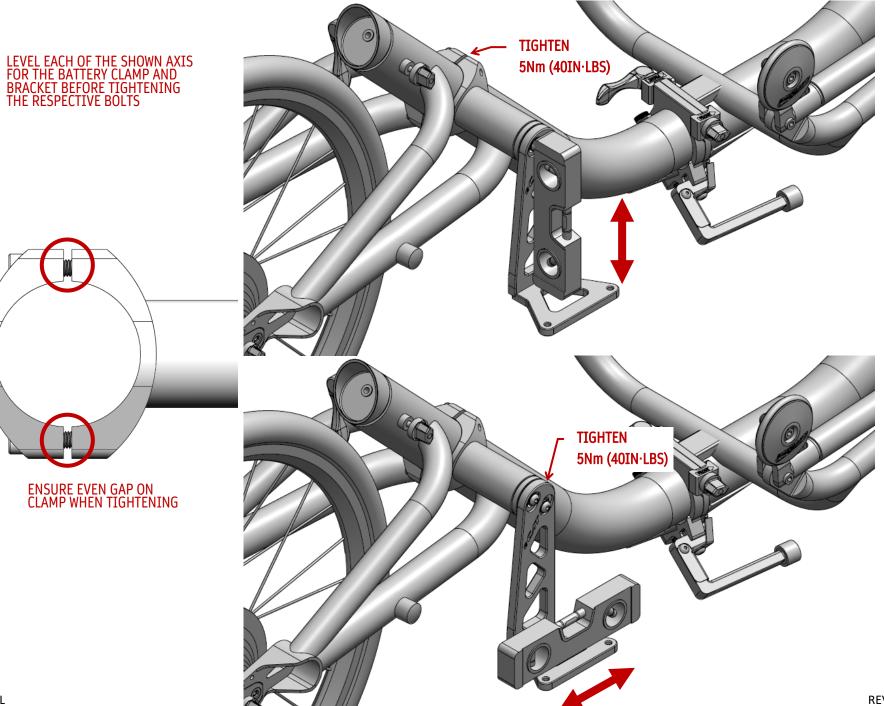
## **EKIT BATTERY RAIL POSITION**



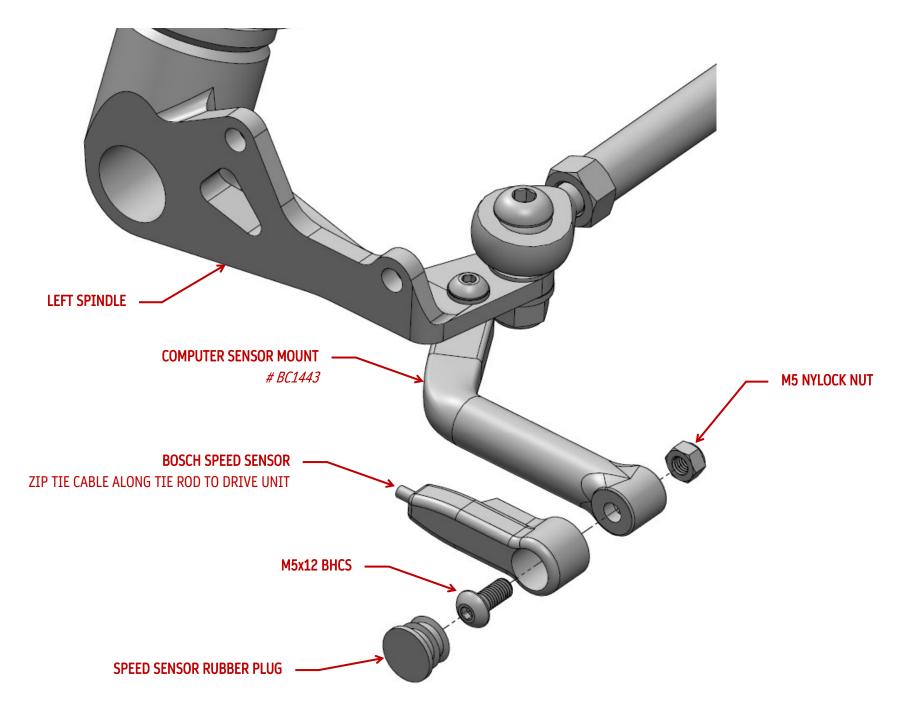
## **EKIT BATTERY RAIL ASSEMBLY**



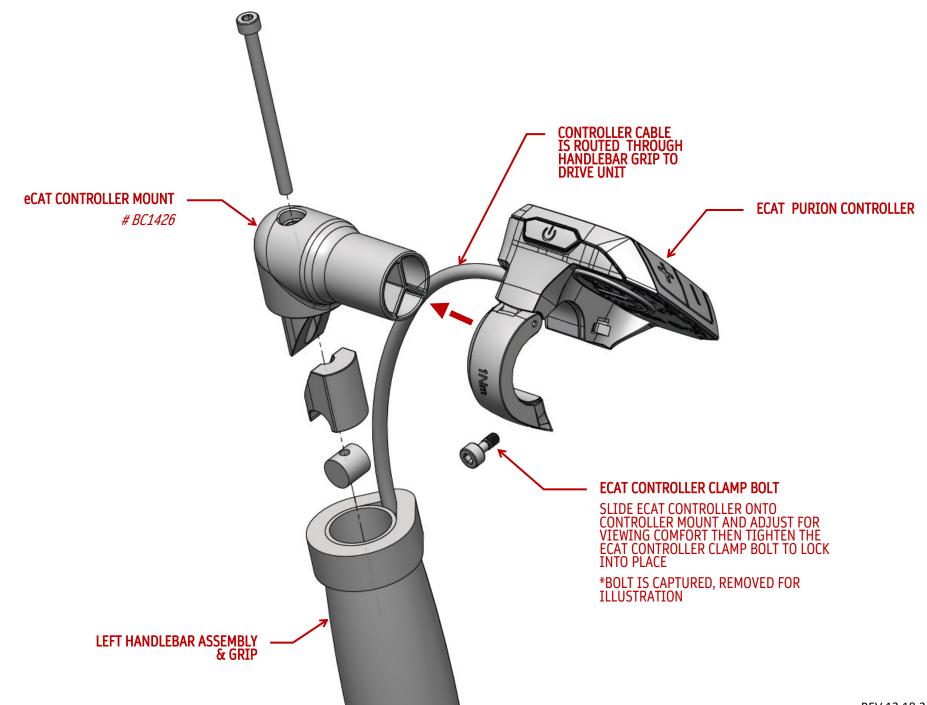
## **EKIT BATTERY CLAMP LEVEL**



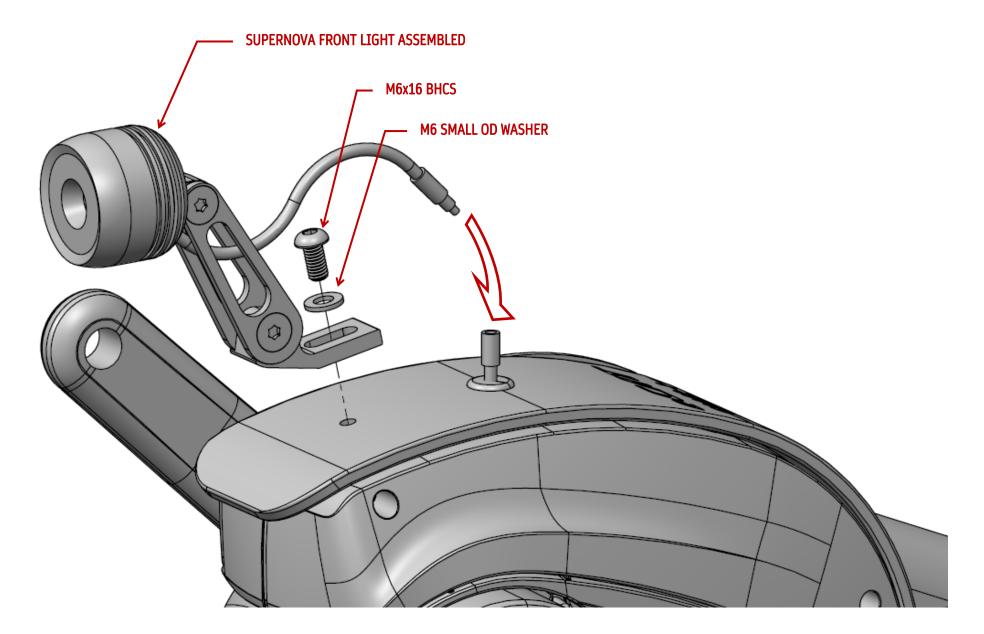
## **EKIT SPEED SENSOR ASSEMBLY**



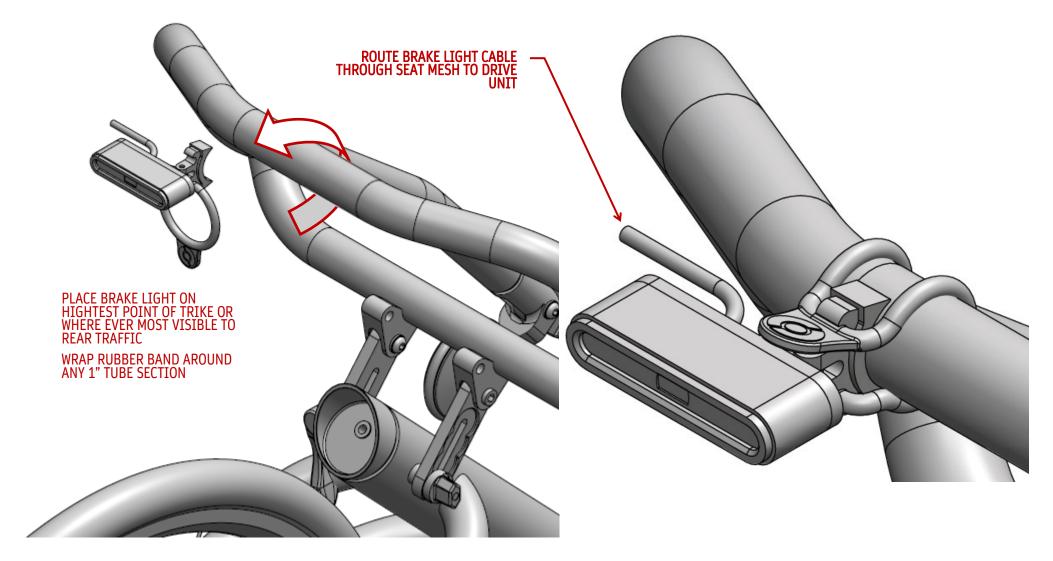
## **EKIT CONTROLLER ASSEMBLY**



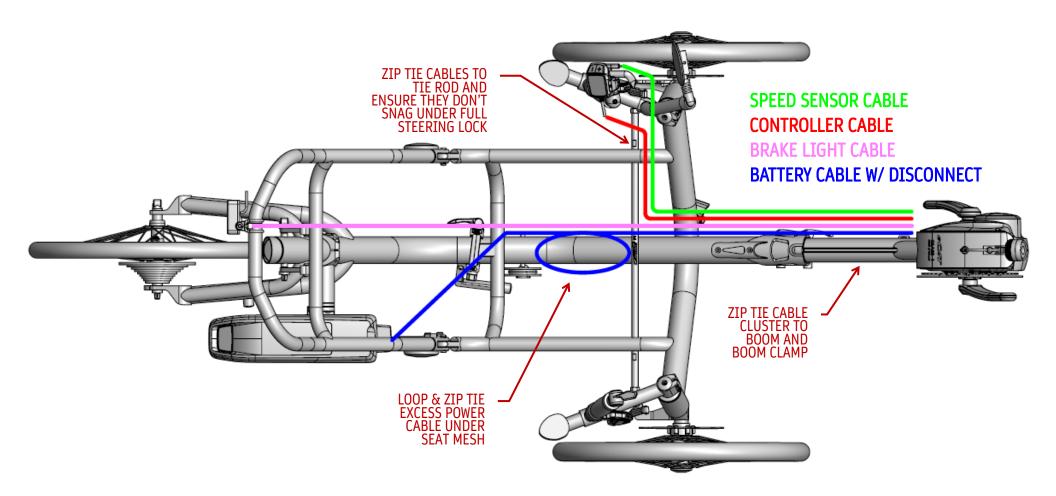
# **EKIT FRONT LIGHT ASSEMBLY**



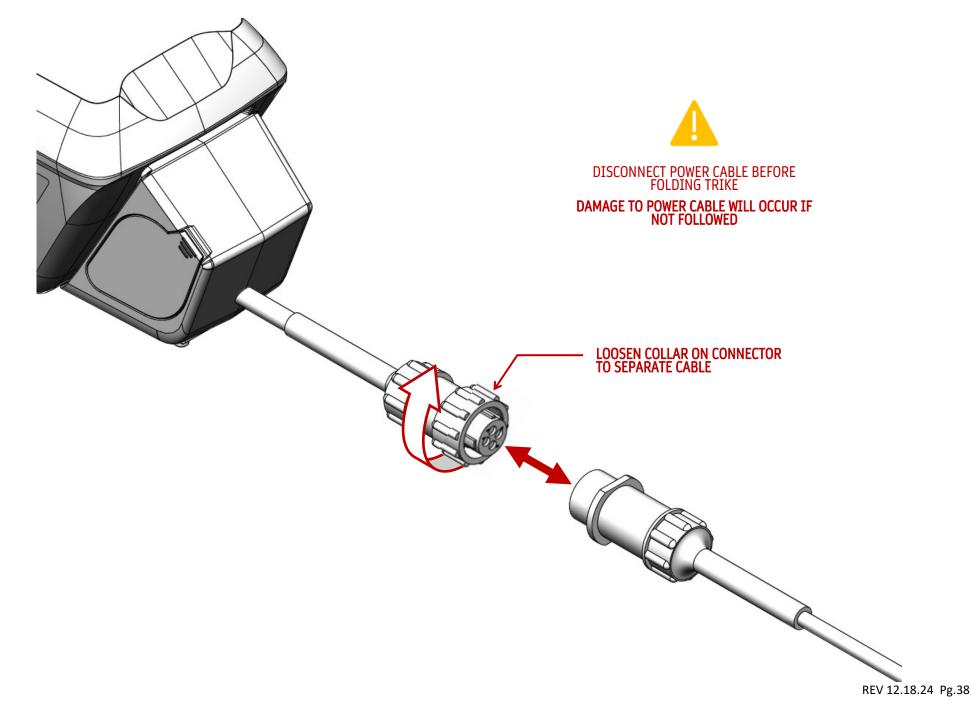
## **EKIT REAR LIGHT ASSEMBLY**



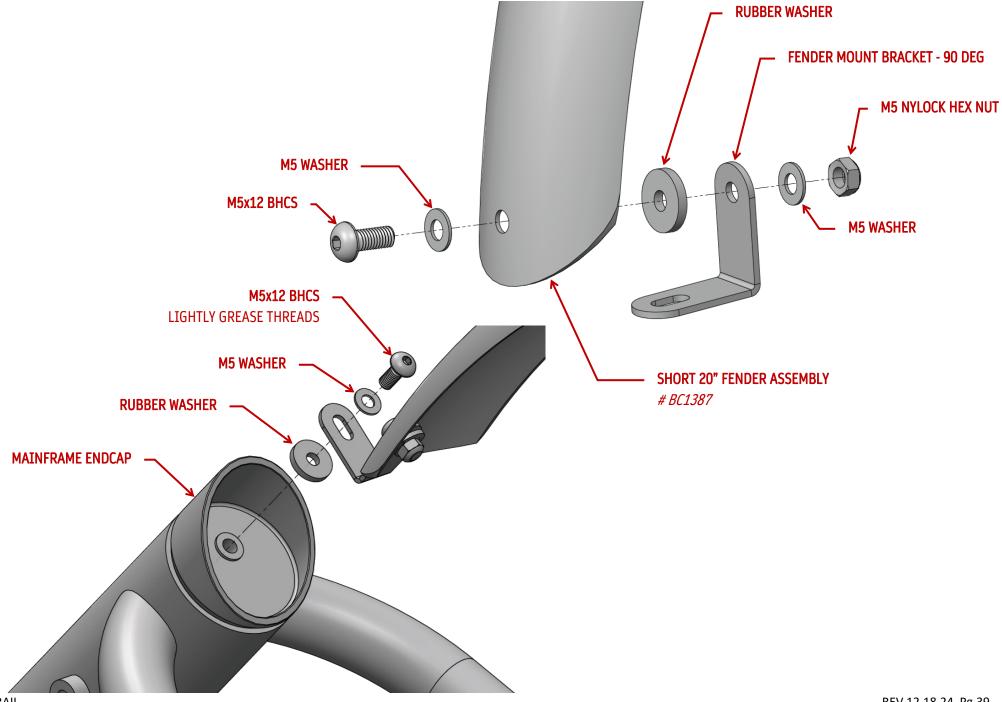
## **EKIT CABLE ROUTING**



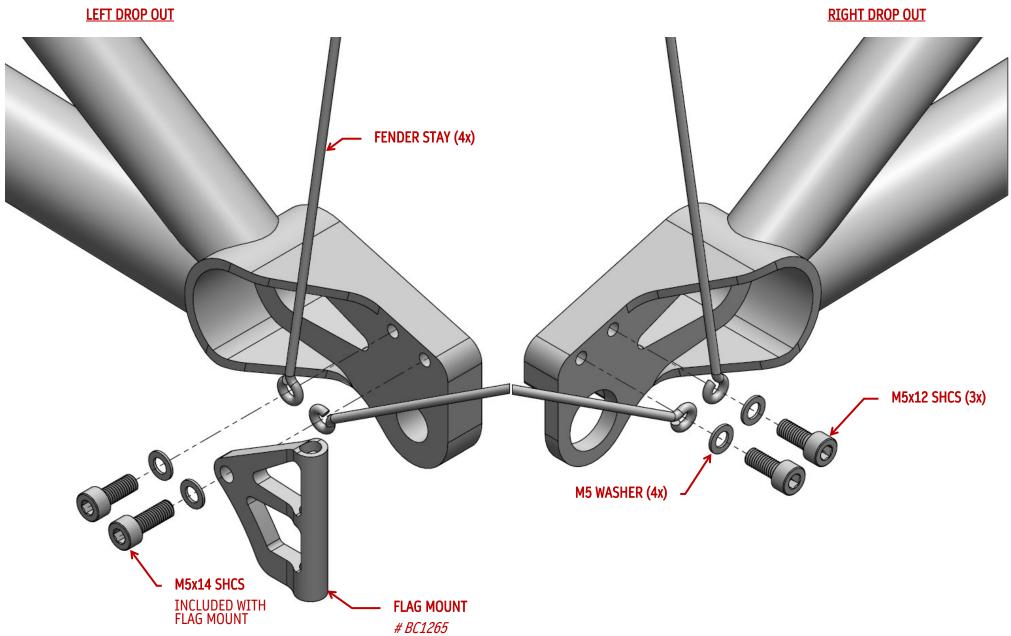
## **EKIT DISCONNECT BEFORE FOLDING**



#### FENDER TO FRAME INSTALLATION



## FENDER TO DROP OUT INSTALLATION



#### FENDER STAYS & FINAL INSTALLATION

