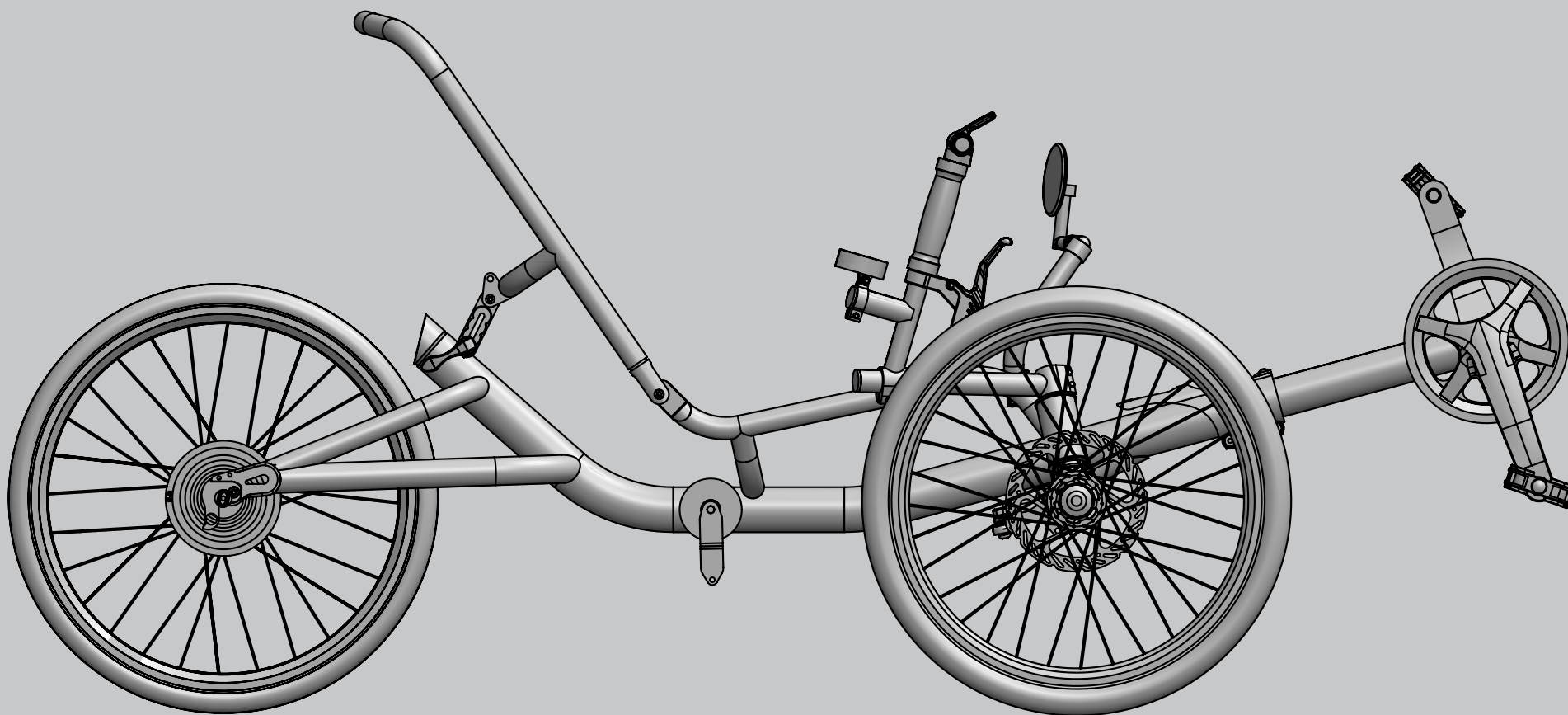


CATRIKE

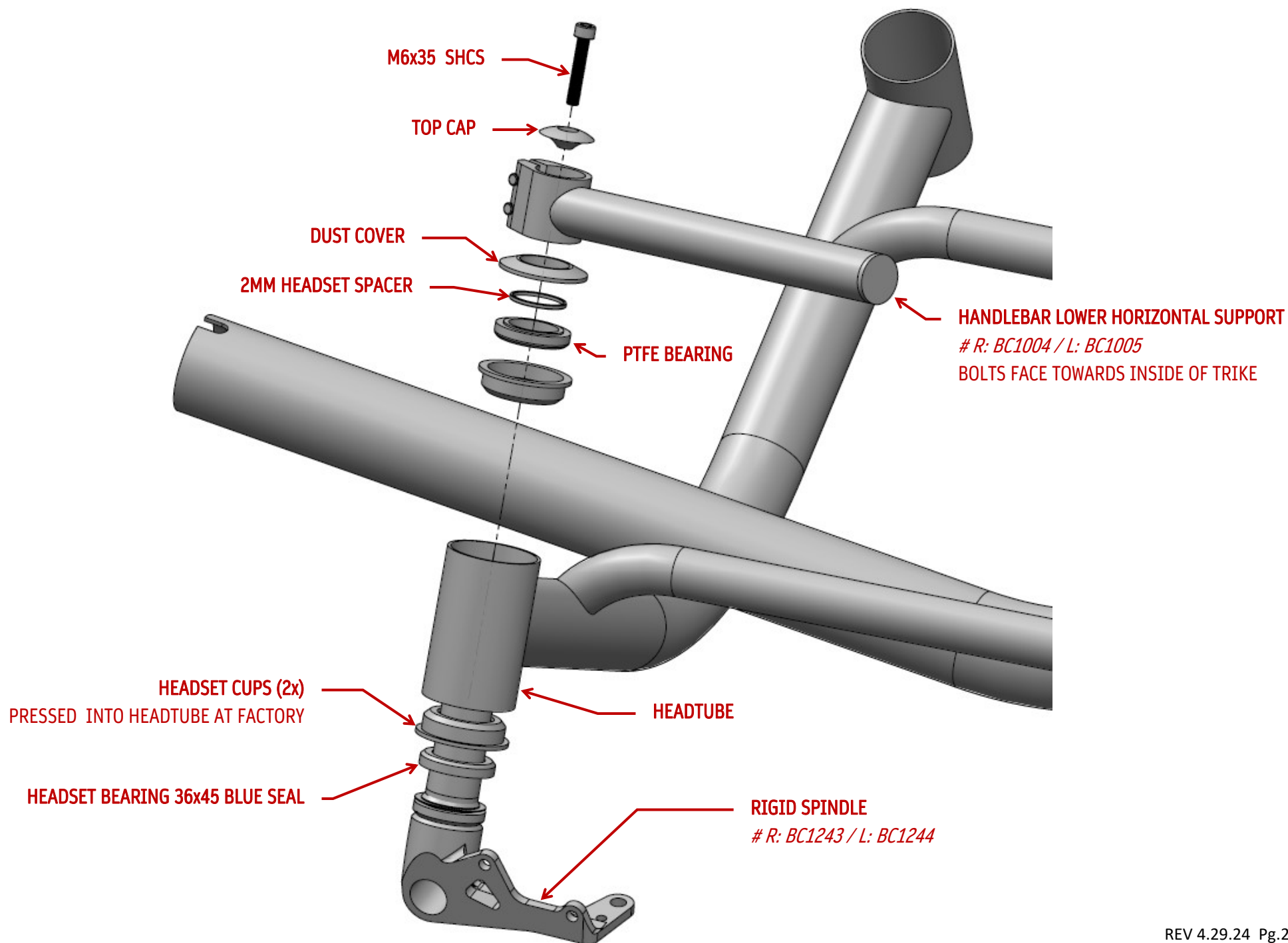


Villager

TECHNICAL MANUAL

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HEADSET ASSEMBLY

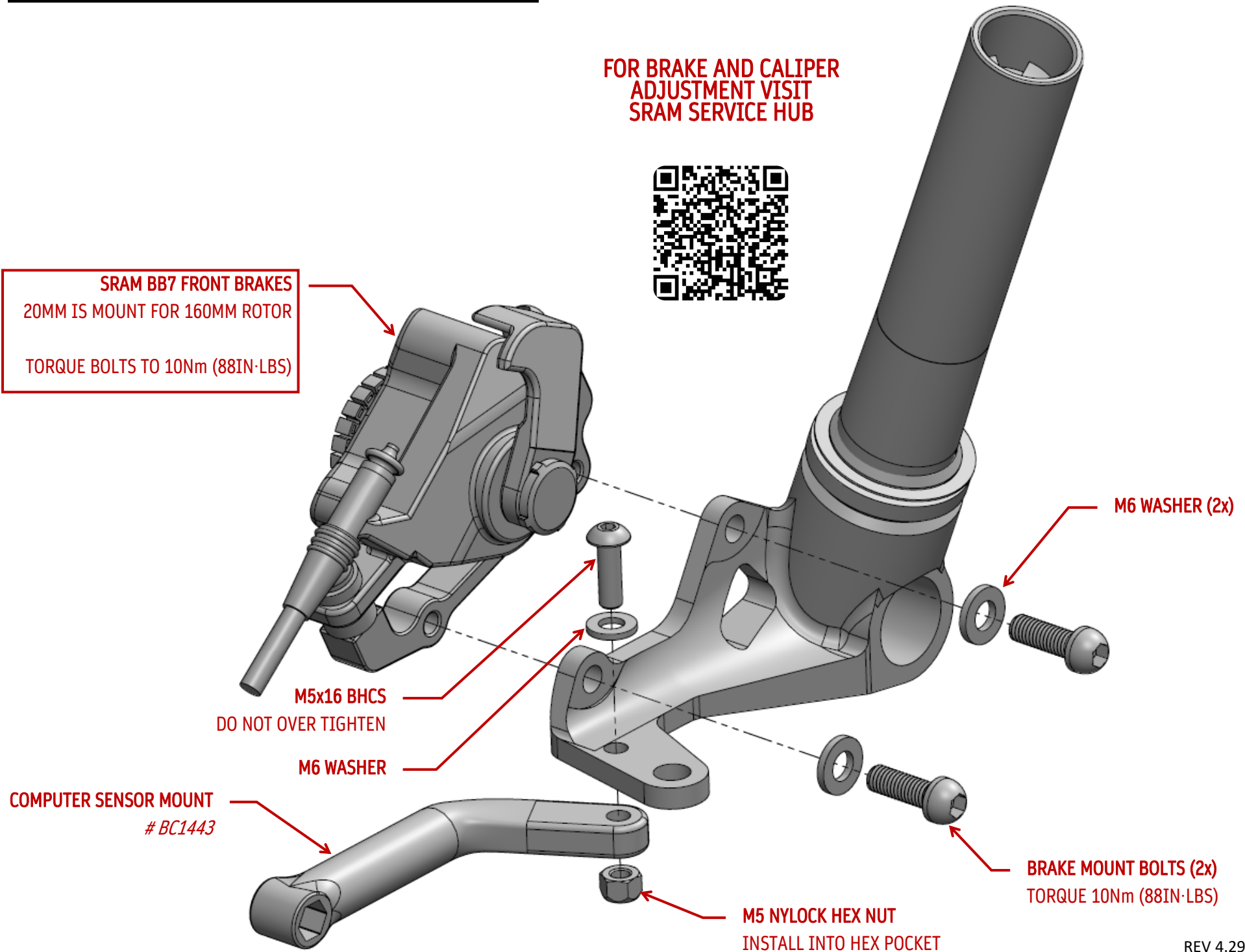


RIGID SPINDLE MAIN ASSEMBLY LEFT

FOR BRAKE AND CALIPER
ADJUSTMENT VISIT
SRAM SERVICE HUB



SRAM BB7 FRONT BRAKES
20MM IS MOUNT FOR 160MM ROTOR
TORQUE BOLTS TO 10Nm (88IN·LBS)

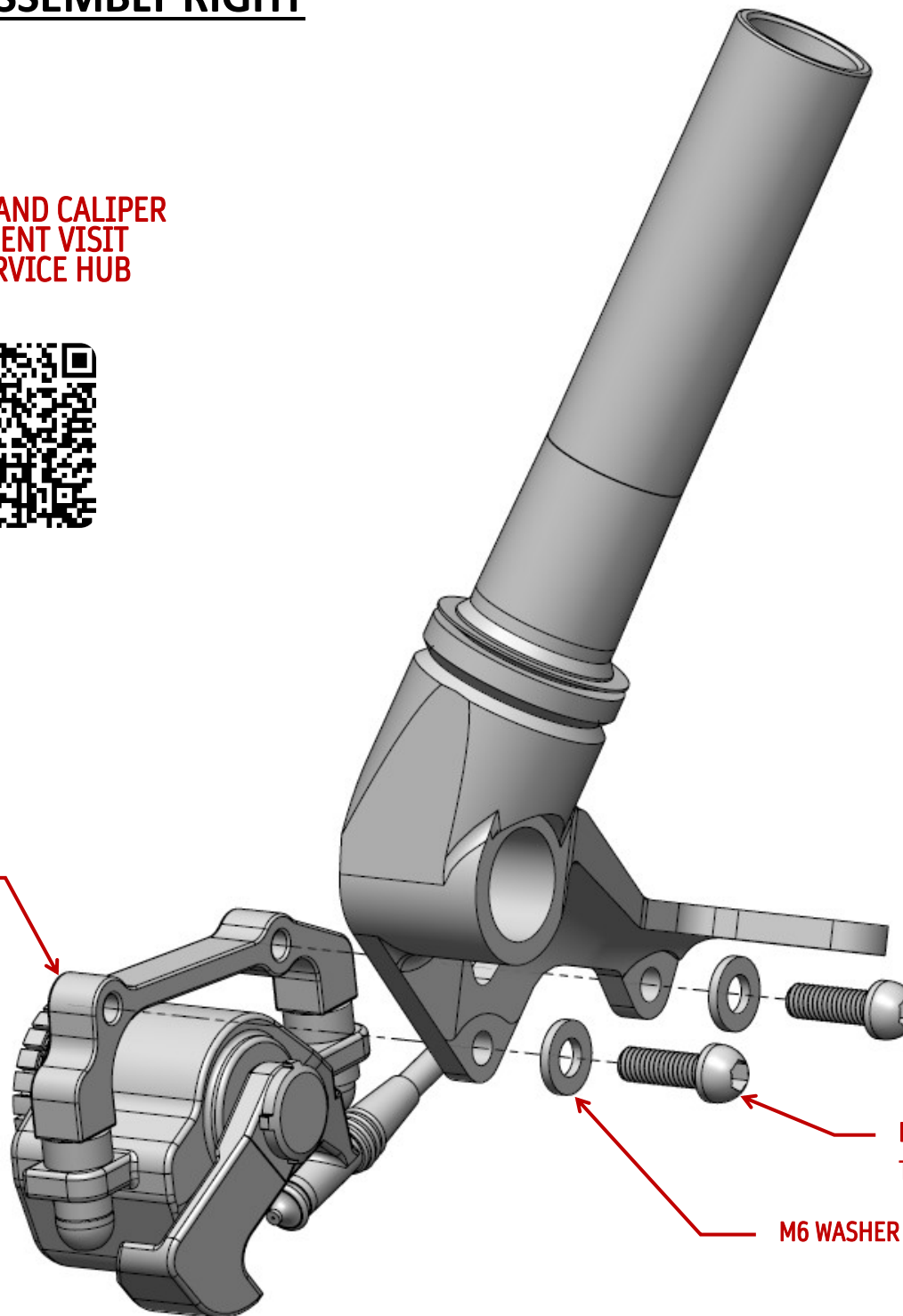


RIGID SPINDLE MAIN ASSEMBLY RIGHT

FOR BRAKE AND CALIPER
ADJUSTMENT VISIT
SRAM SERVICE HUB



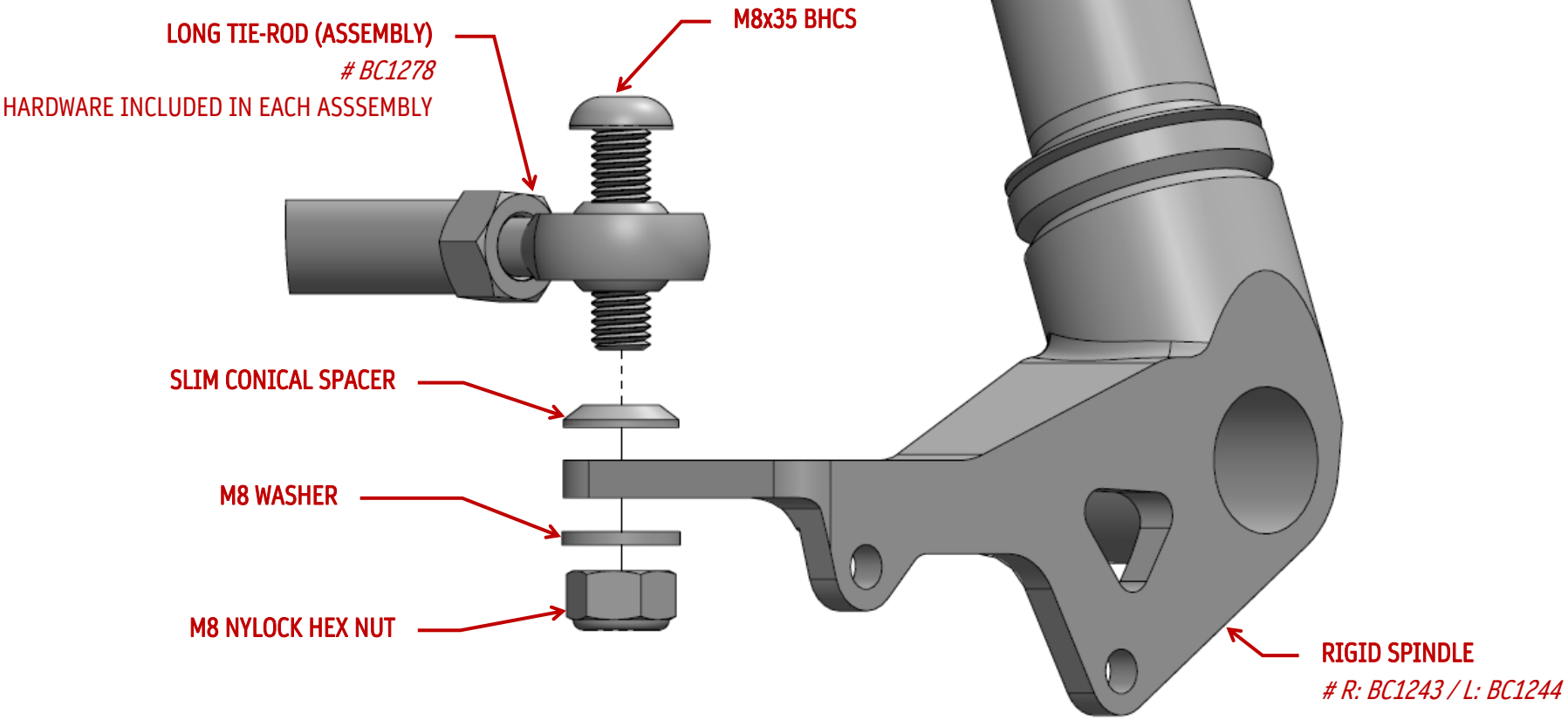
SRAM BB7 FRONT BRAKES
20MM IS MOUNT FOR 160MM ROTOR
TORQUE BOLTS TO 10Nm (88IN·LBS)



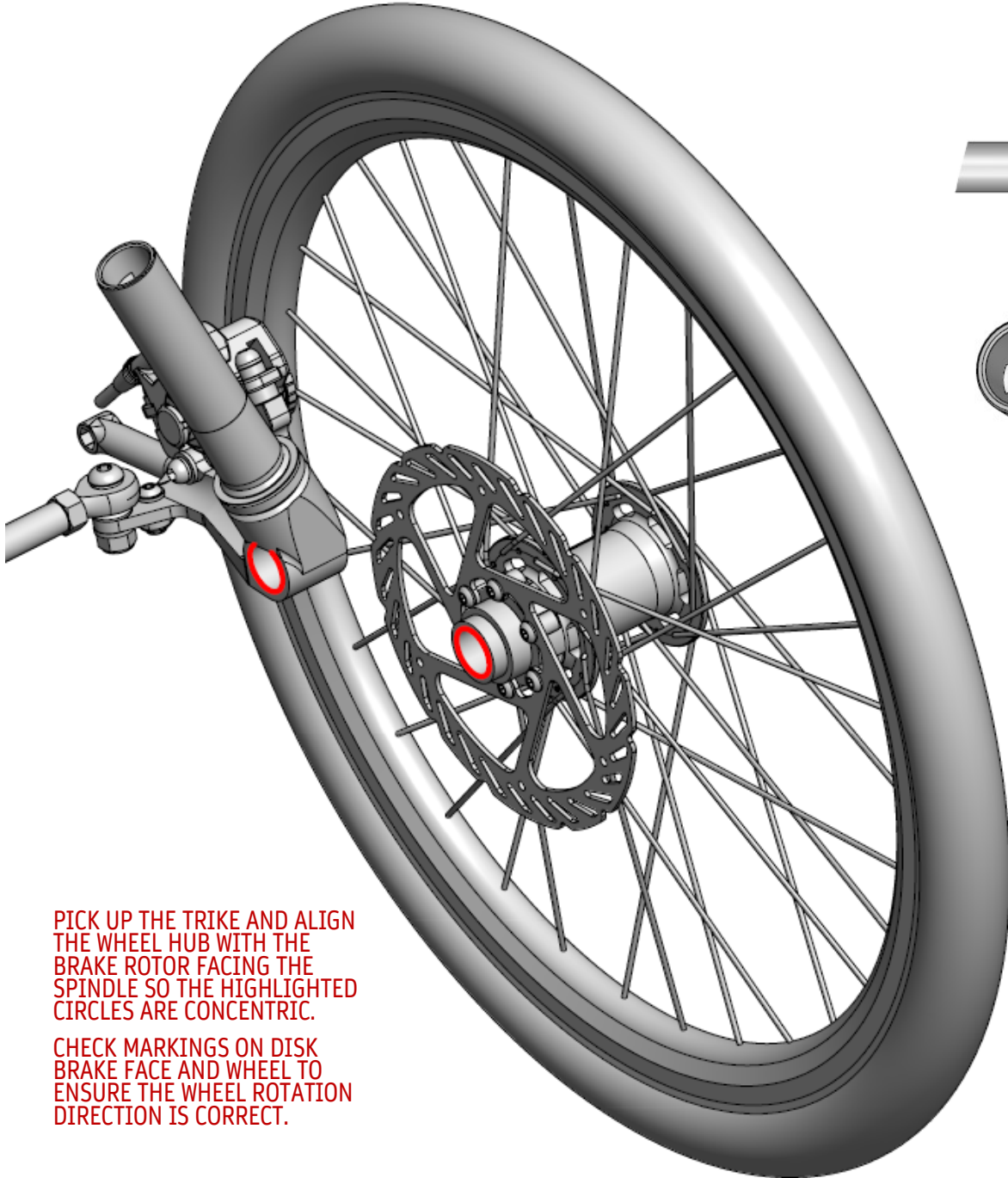
BRAKE MOUNT BOLTS (2x)
TORQUE 10Nm (88IN·LBS)

M6 WASHER (2x)

TIE-ROD ASSEMBLY

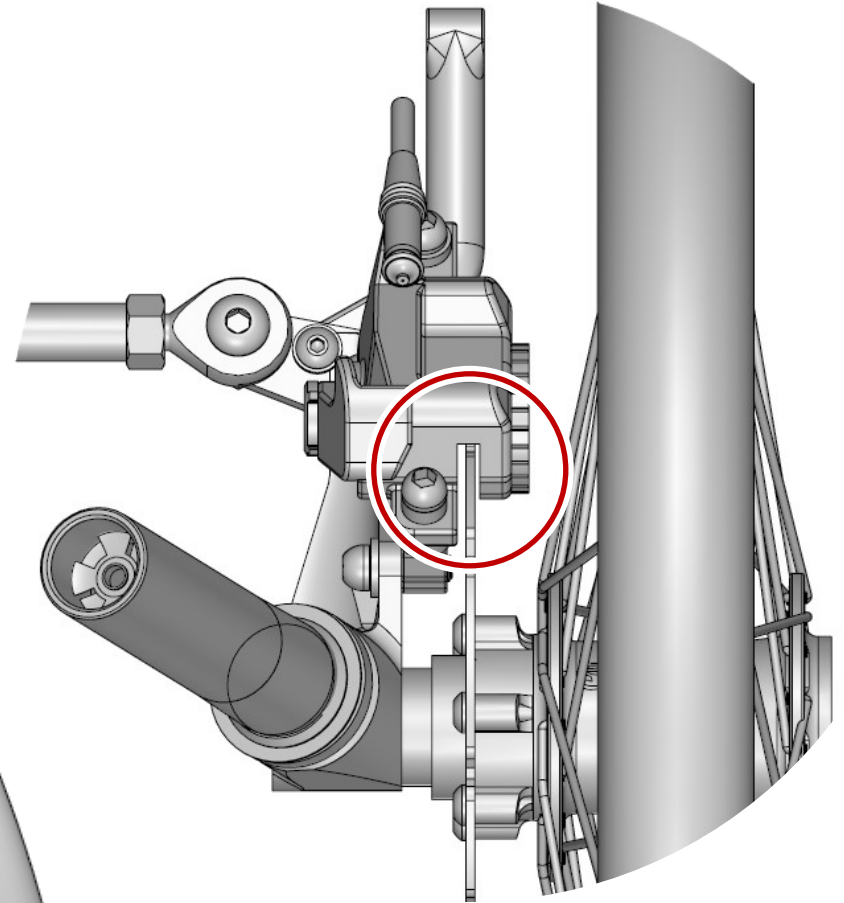


WHEEL INSTALL STEP 1



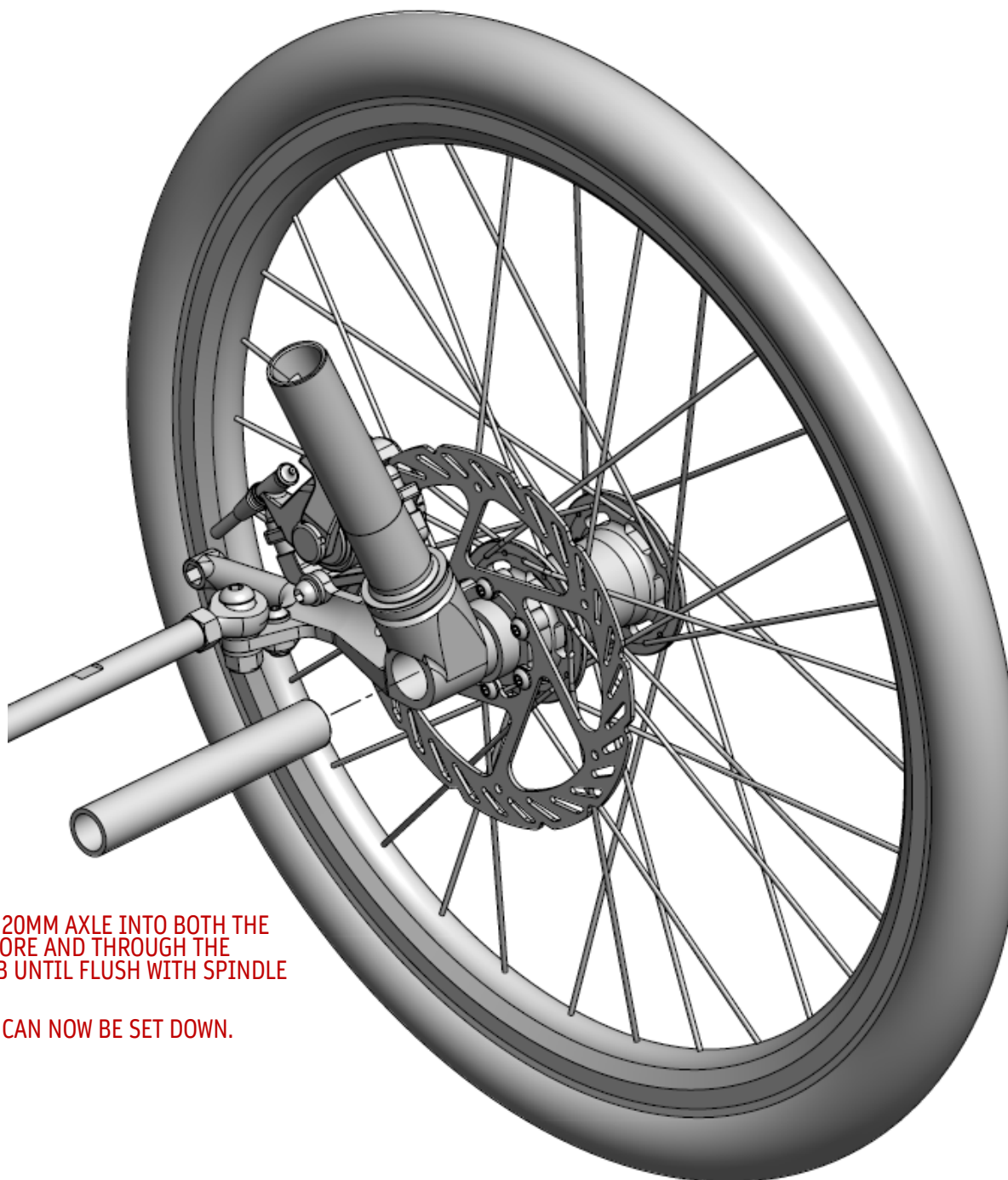
PICK UP THE TRIKE AND ALIGN THE WHEEL HUB WITH THE BRAKE ROTOR FACING THE SPINDLE SO THE HIGHLIGHTED CIRCLES ARE CONCENTRIC.

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.

WHEEL INSTALL STEP 2



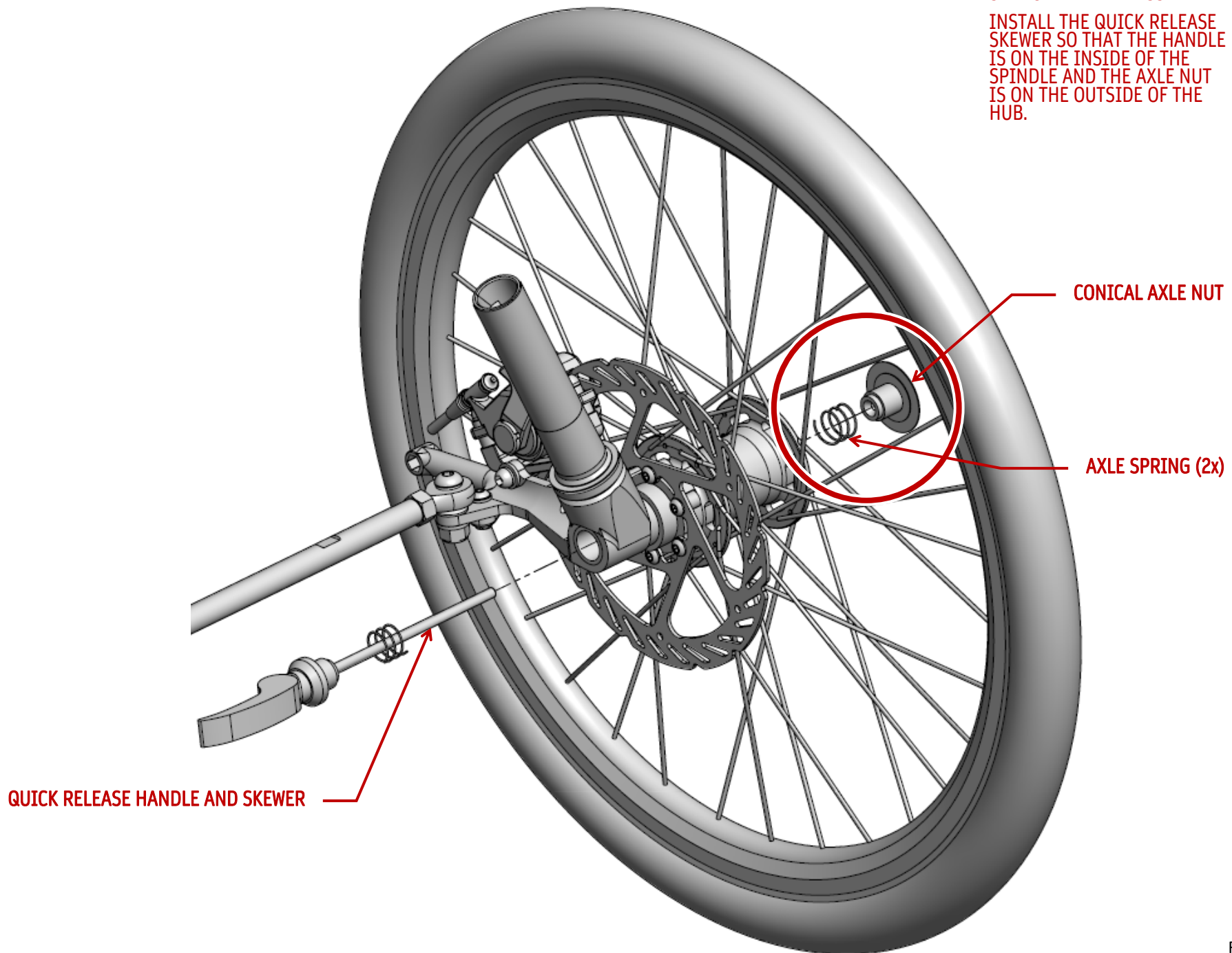
SLIDE THE 20MM AXLE INTO BOTH THE
SPINDLE BORE AND THROUGH THE
WHEEL HUB UNTIL FLUSH WITH SPINDLE
SURFACE.

THE TRIKE CAN NOW BE SET DOWN.

WHEEL INSTALL STEP 3

INSTALL A SPRING ON EACH
SIDE OF THE AXLE ASSEMBLY.

INSTALL THE QUICK RELEASE
SKEWER SO THAT THE HANDLE
IS ON THE INSIDE OF THE
SPINDLE AND THE AXLE NUT
IS ON THE OUTSIDE OF THE
HUB.

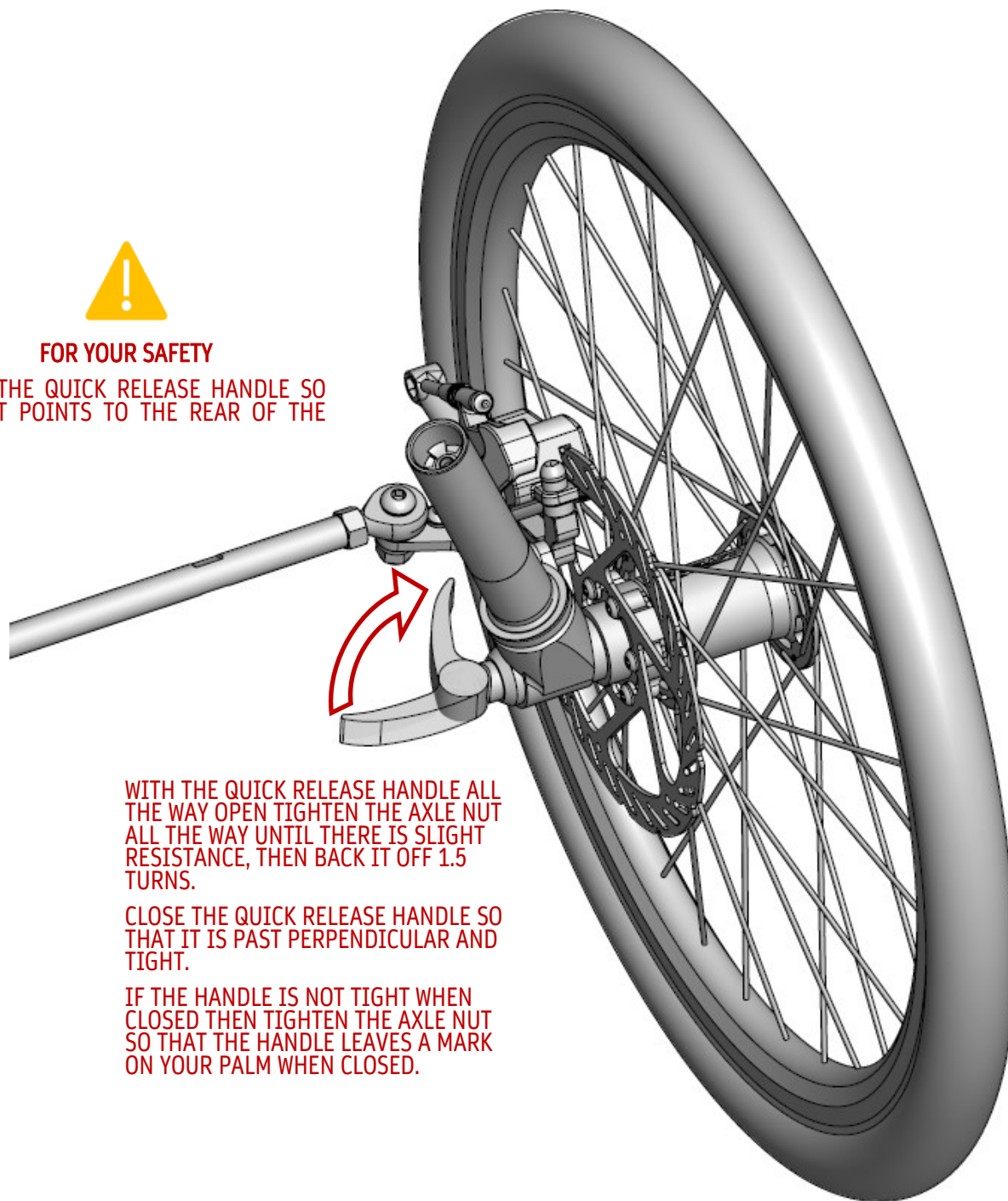


WHEEL INSTALL STEP 4



FOR YOUR SAFETY

CLOSE THE QUICK RELEASE HANDLE SO THAT IT POINTS TO THE REAR OF THE TRIKE



WITH THE QUICK RELEASE HANDLE ALL THE WAY OPEN TIGHTEN THE AXLE NUT ALL THE WAY UNTIL THERE IS SLIGHT RESISTANCE, THEN BACK IT OFF 1.5 TURNS.

CLOSE THE QUICK RELEASE HANDLE SO THAT IT IS PAST PERPENDICULAR AND TIGHT.

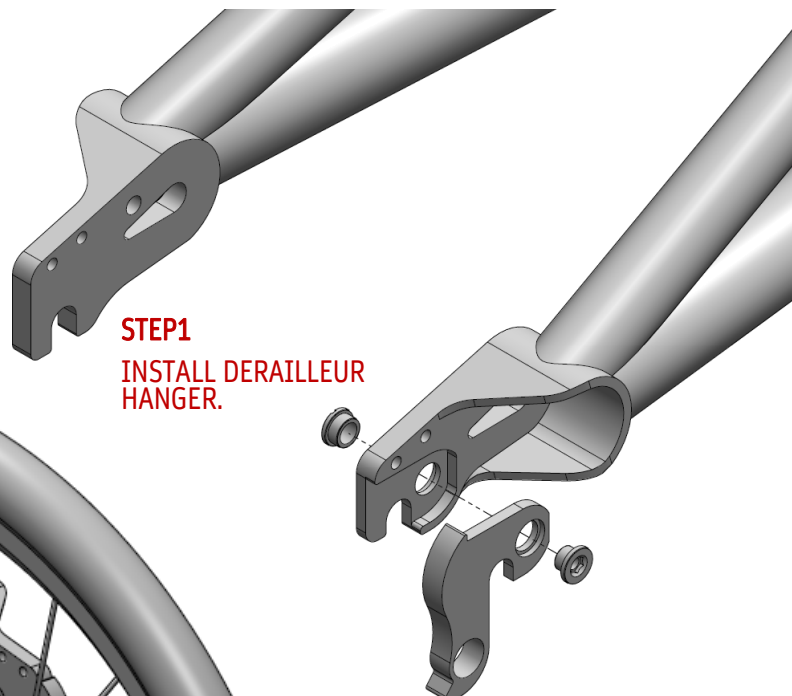
IF THE HANDLE IS NOT TIGHT WHEN CLOSED THEN TIGHTEN THE AXLE NUT SO THAT THE HANDLE LEAVES A MARK ON YOUR PALM WHEN CLOSED.

QUICK RELEASE HUB & HANGER INSTALL



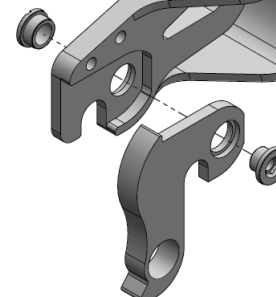
TIP:

IF INSTALLED, SHIFT REAR DERAILEUR TO SMALLEST COG TO MAKE TIRE INSTALL AND REMOVAL EASIER



STEP1

INSTALL DERAILEUR HANGER.



DERAILEUR HANGER W/ HARDWARE
800XMB-P

STEP2

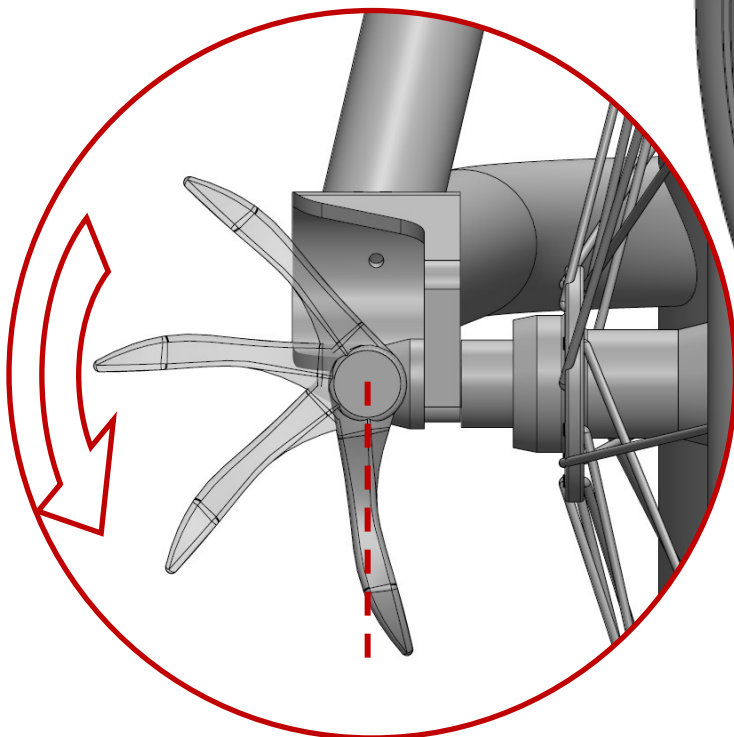
INSTALL HUB IN TO REAR DROPOUTS.



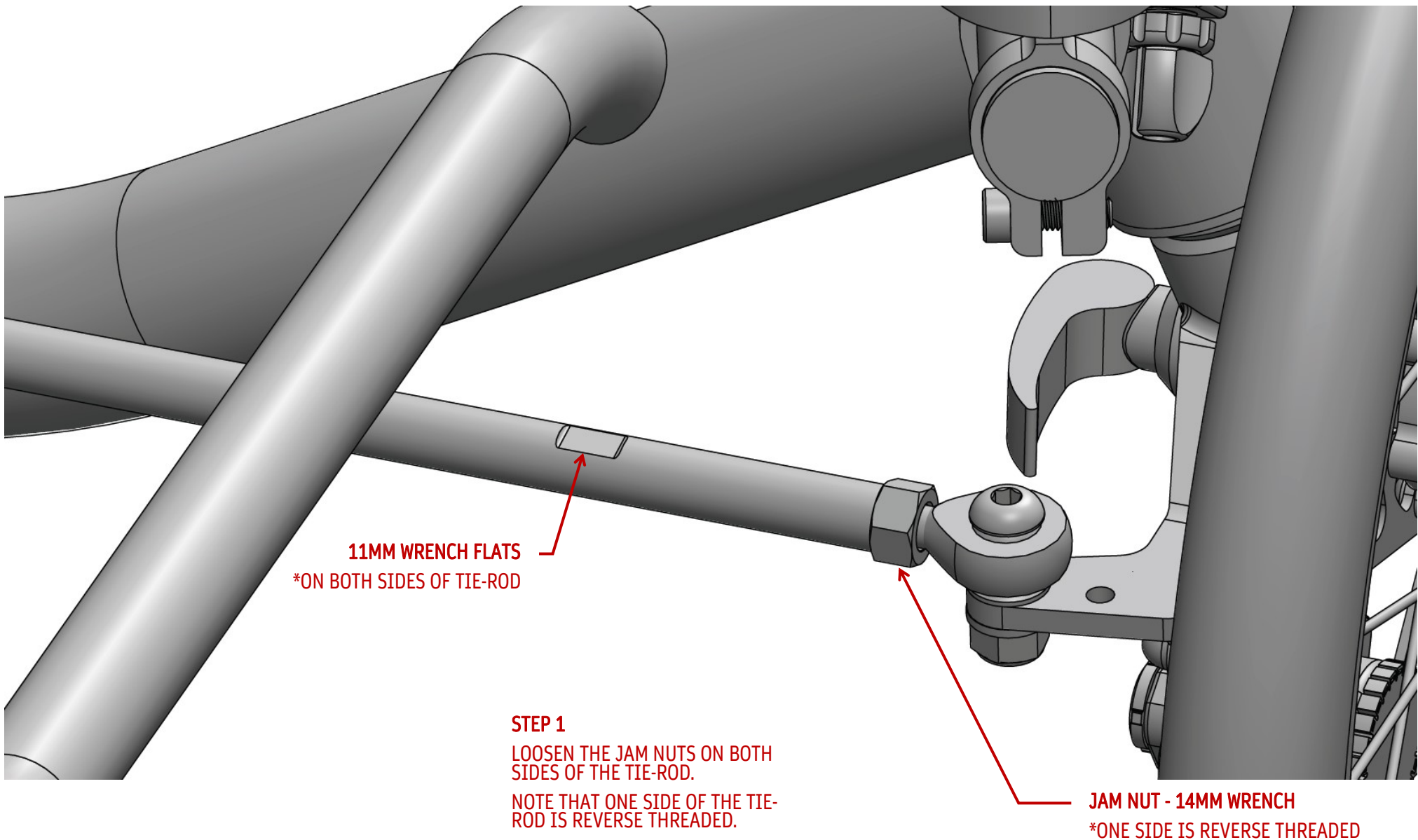
CHECK THE TIGHTNESS OF THE REAR WHEEL BEFORE EVERY RIDE

STEP3

WHILE PUSHING THE FRAME DOWN ON TO THE REAR WHEEL, TIGHTEN THE QUICK RELEASE NUT SO THAT WHEN CLOSING THE QUICK RELEASE HANDLE IT LEAVES AN IMPRINT IN PALM.



TIE-ROD ADJUSTMENT

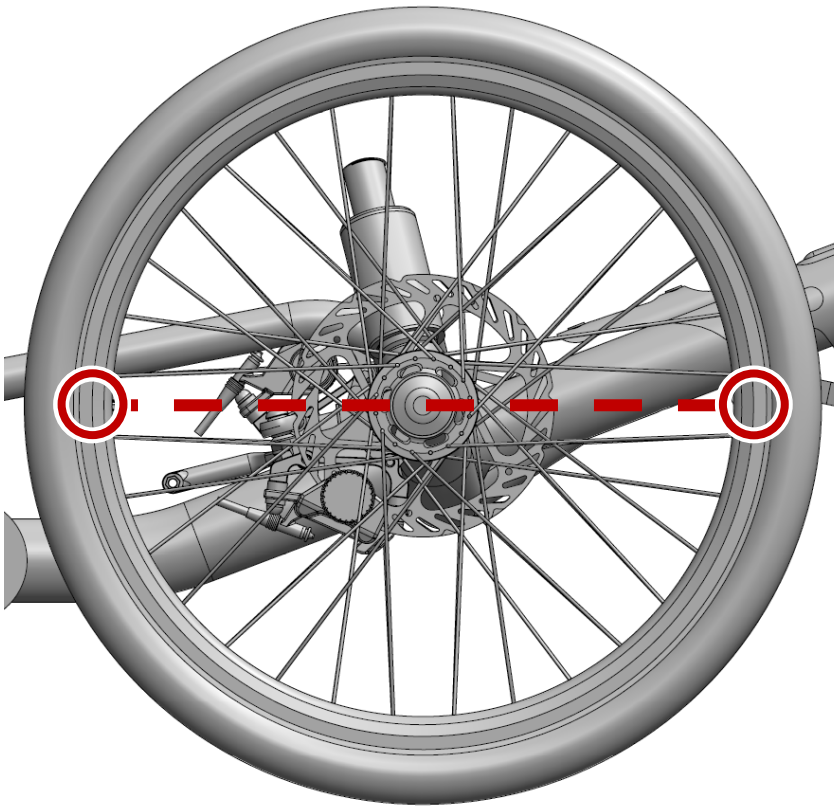


TIE-ROD ADJUSTMENT CONTINUED

STEP 2

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

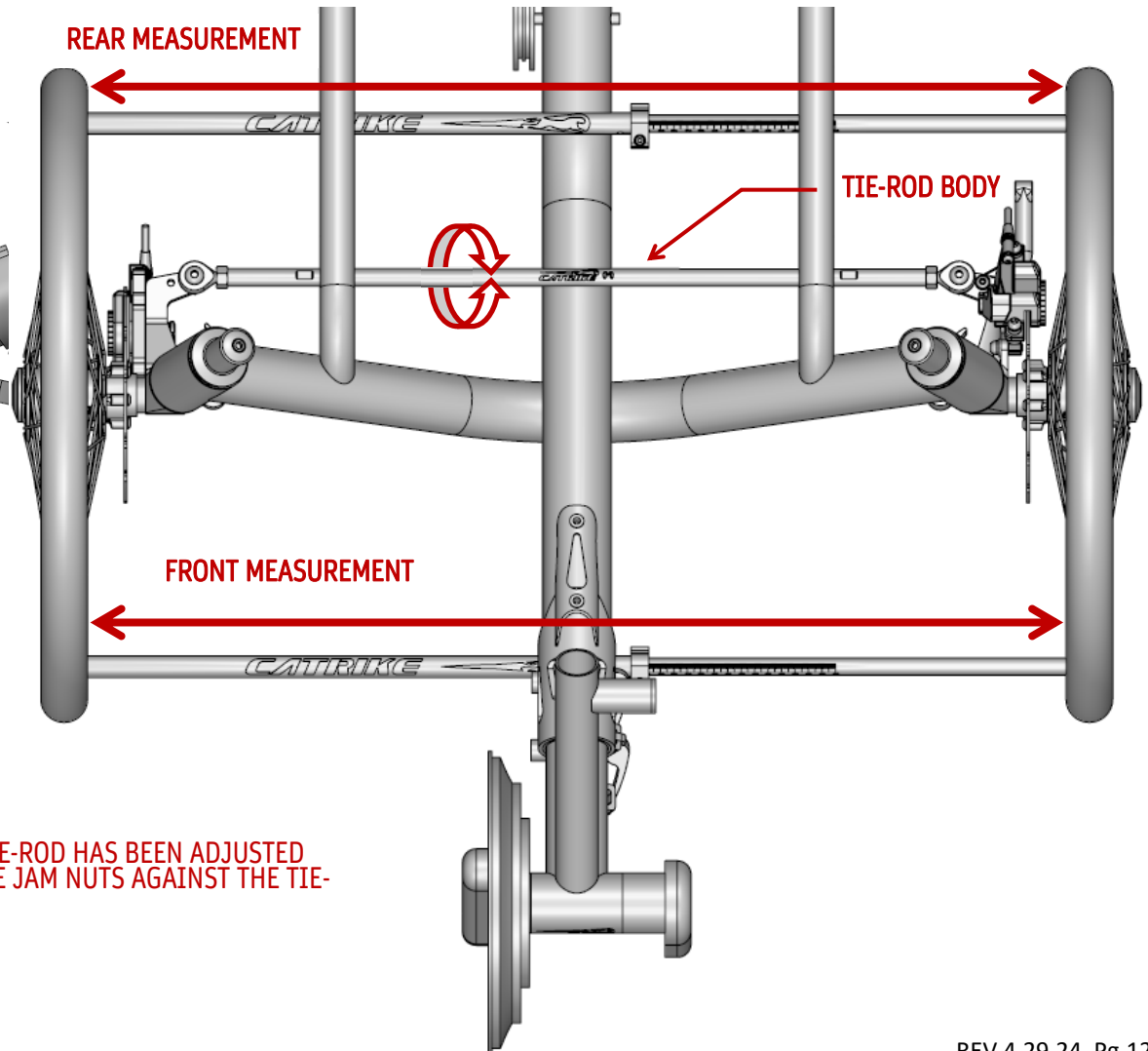
COMPARE THE MEASUREMENTS FROM BOTH POINTS.



STEP 3

USING THE MEASUREMENTS TAKEN FROM THE PREVIOUS STEP, ADJUST THE TIE-ROD BY SPINNING THE MAIN BODY SO THAT THE WHEELS ARE TOED-IN A MAXIMUM OF 0-2MM.

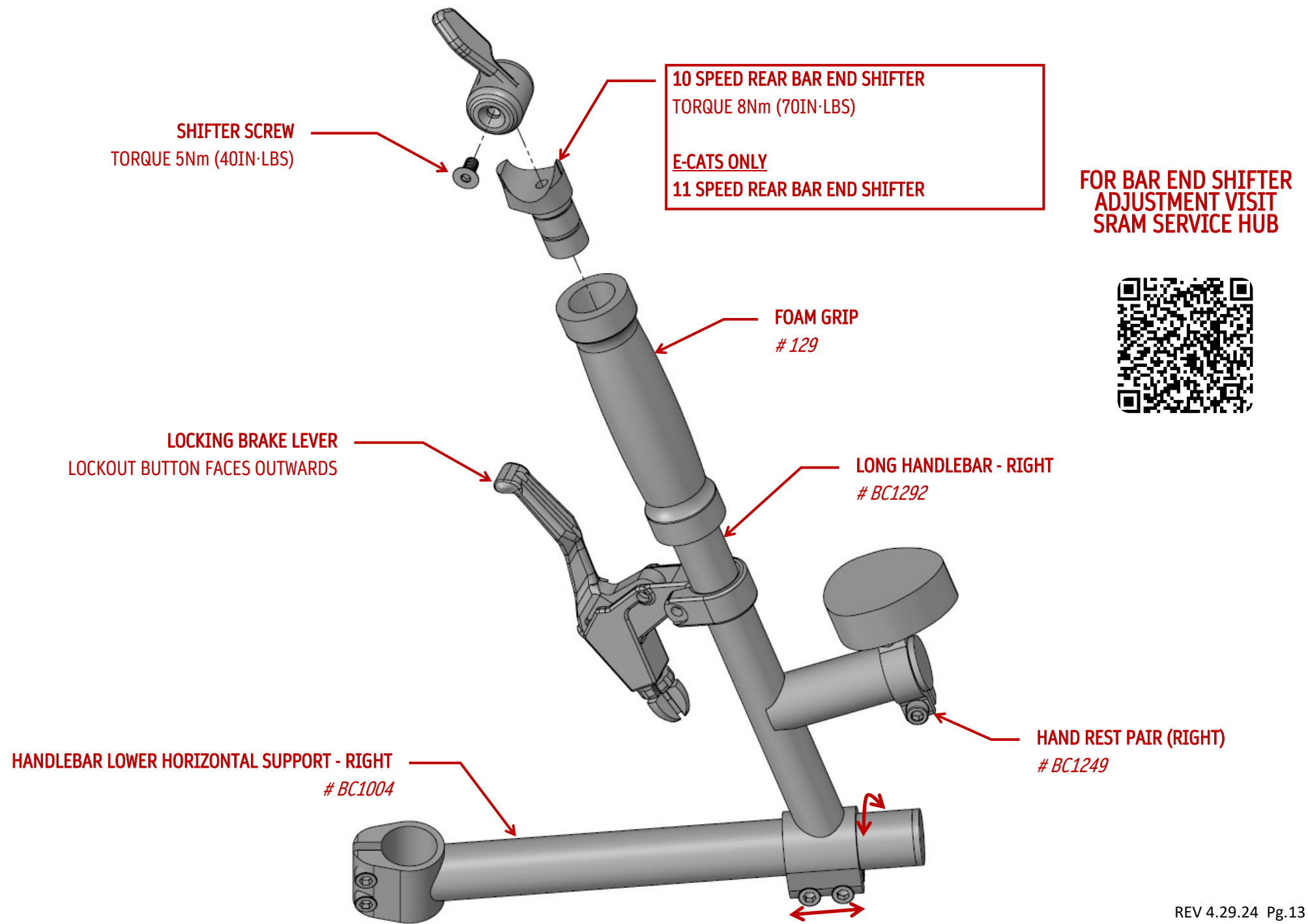
IN OTHER WORDS THE MEASUREMENT FROM THE FRONT SHOULD BE 0-2MM SMALLER THAN THE MEASUREMENT TAKEN FROM THE REAR OF THE RIM



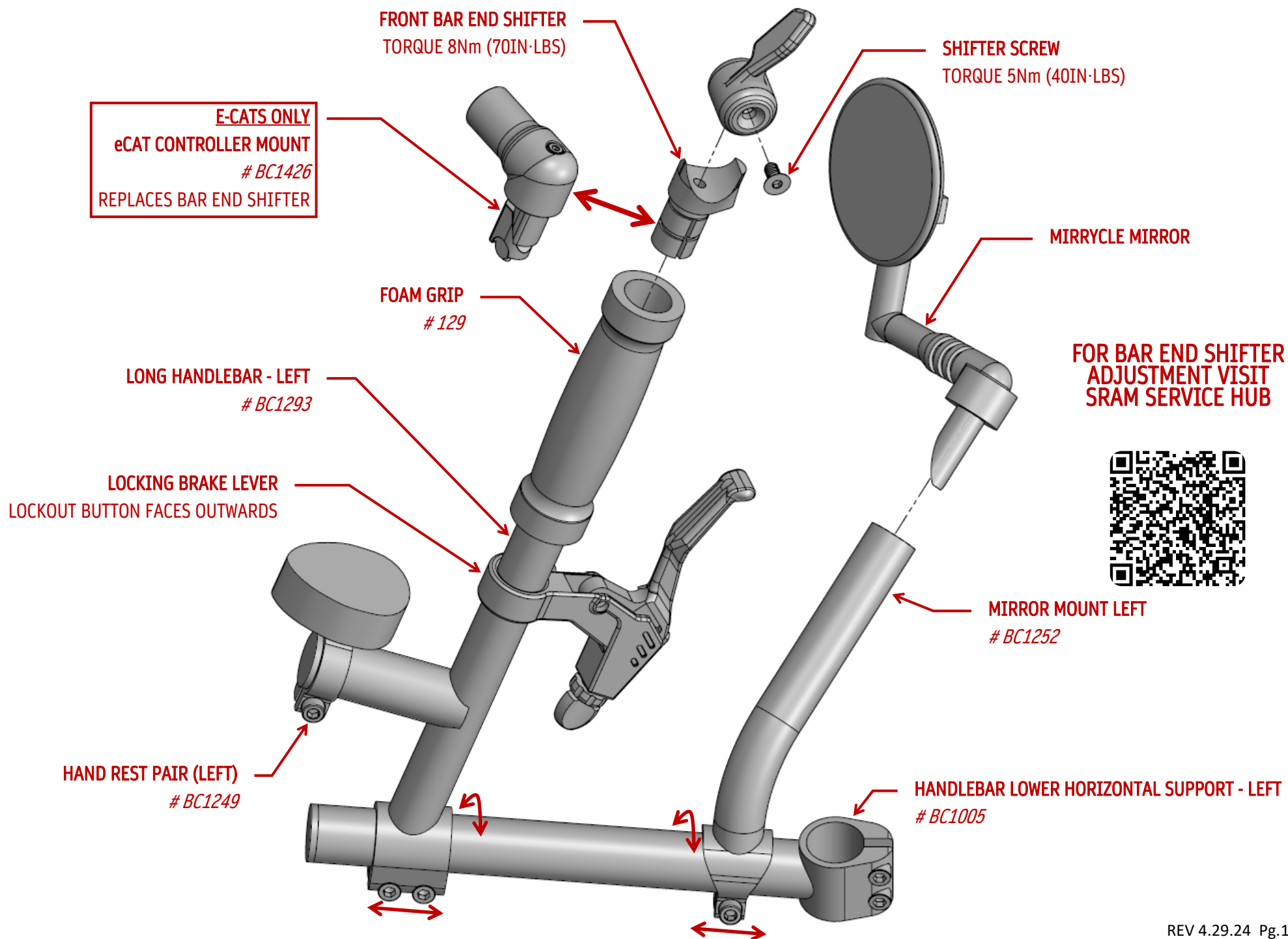
STEP 4

ONCE THE TIE-ROD HAS BEEN ADJUSTED TIGHTEN THE JAM NUTS AGAINST THE TIE-ROD BODY.

TALL HANDLEBAR ASSEMBLY RIGHT



TALL HANDLEBAR ASSEMBLY LEFT



BOOM ADJUSTMENT



WHILE SITTING, SLIDE BOOM UP TO HEEL OF FULLY EXTENDED LEG.

BOOM CAN BE CUT FOR SHORTER RIDERS.

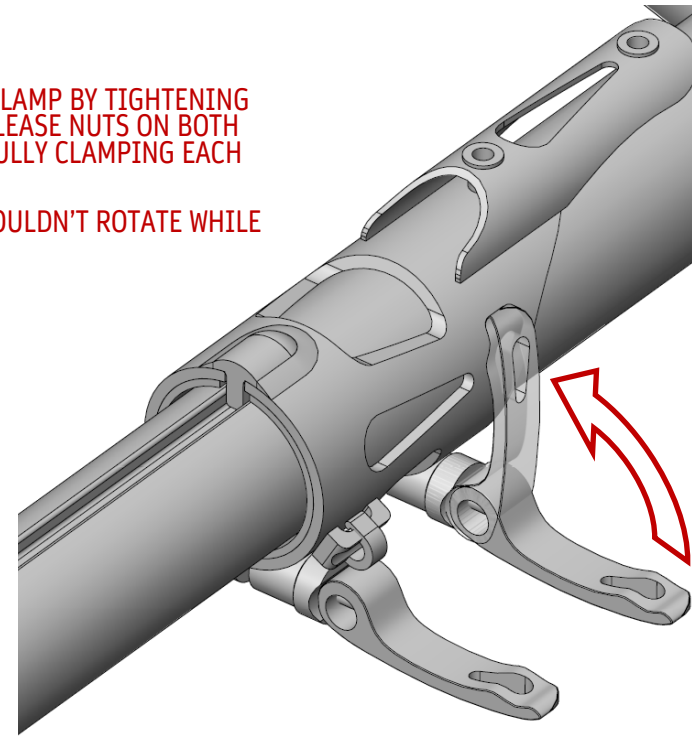


ONCE CLIPPED IN, THE EXTENDED LEG SHOULD NOW HAVE A SLIGHT BEND.

BOOM ADJUSTMENT IS UP TO RIDER PREFERENCE.

CLOSE BOOM CLAMP BY TIGHTENING THE QUICK RELEASE NUTS ON BOTH LEVERS AND FULLY CLAMPING EACH HANDLE.

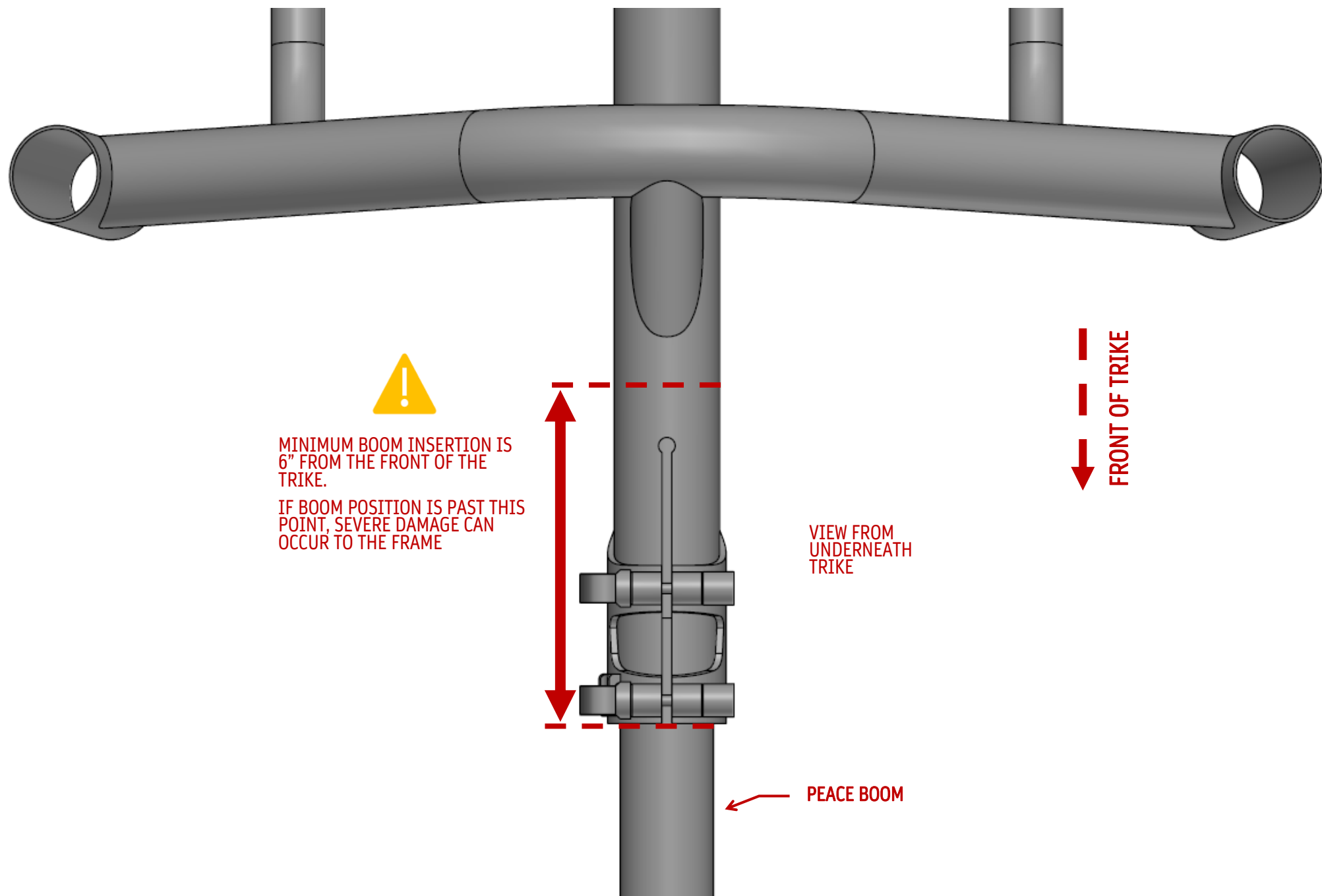
THE BOOM SHOULDN'T ROTATE WHILE PEDALING.



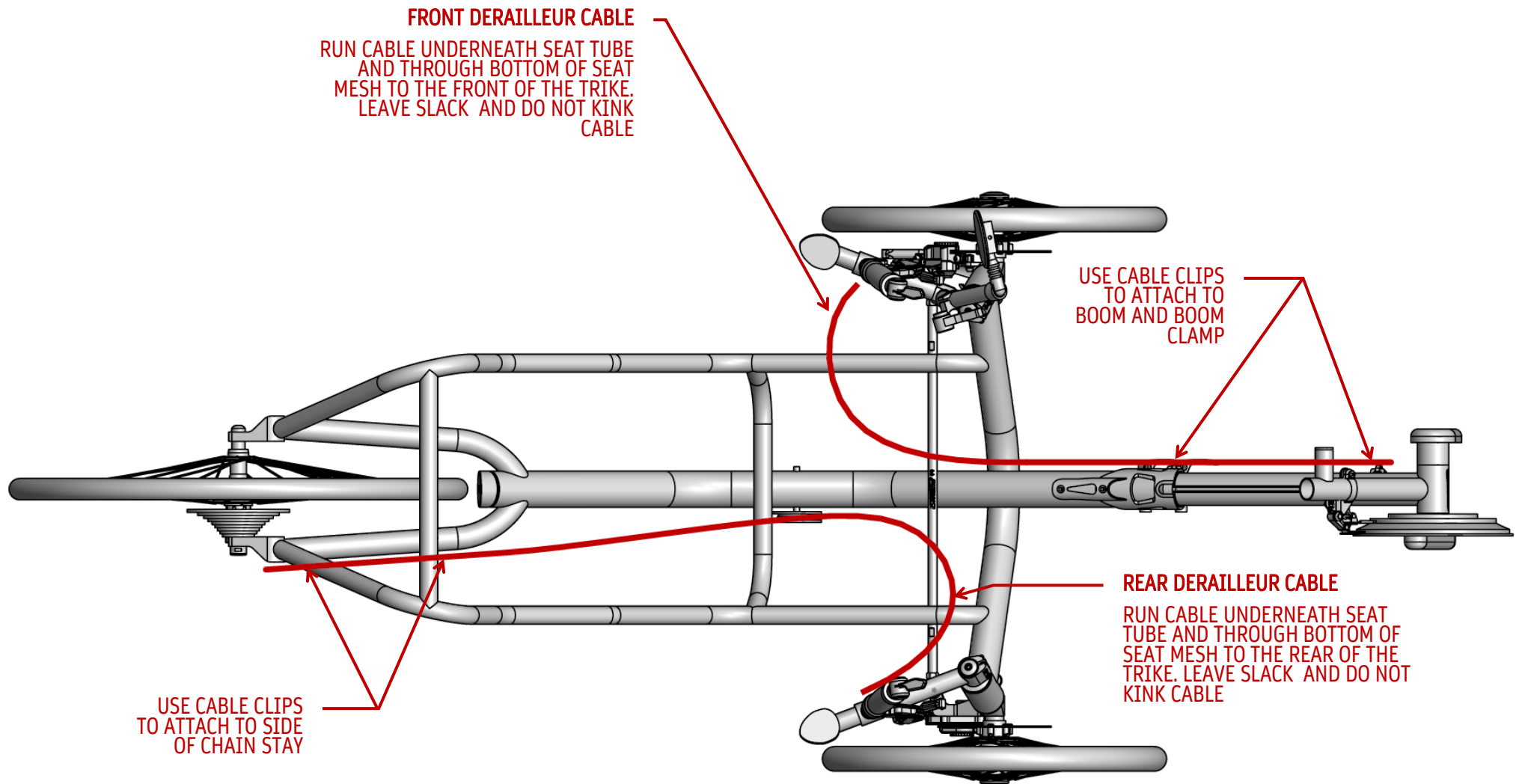
CLIPLESS SHOES ARE STRONGLY RECOMMENDED

SEE WARNING ON NEXT PAGE REGARDING MINIMUM BOOM INSERTION

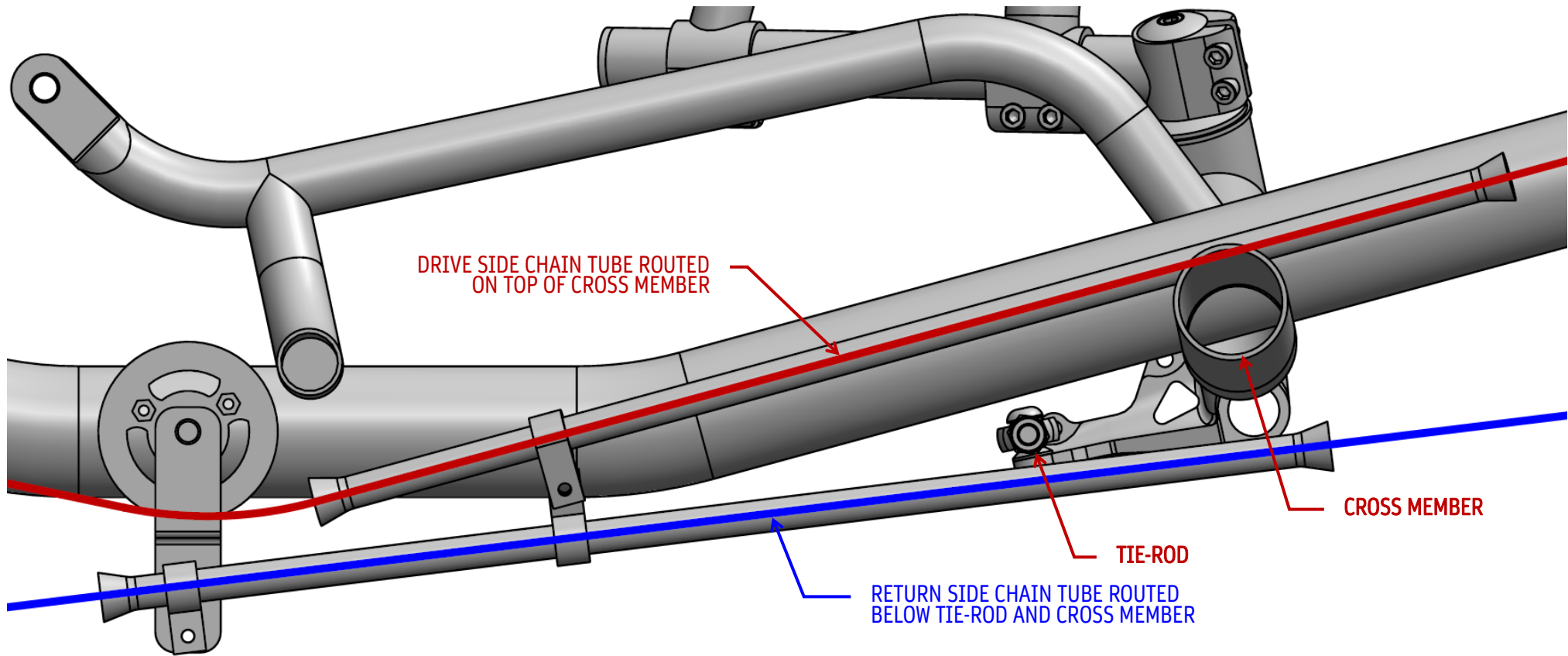
BOOM INSERTION



CABLE ROUTING



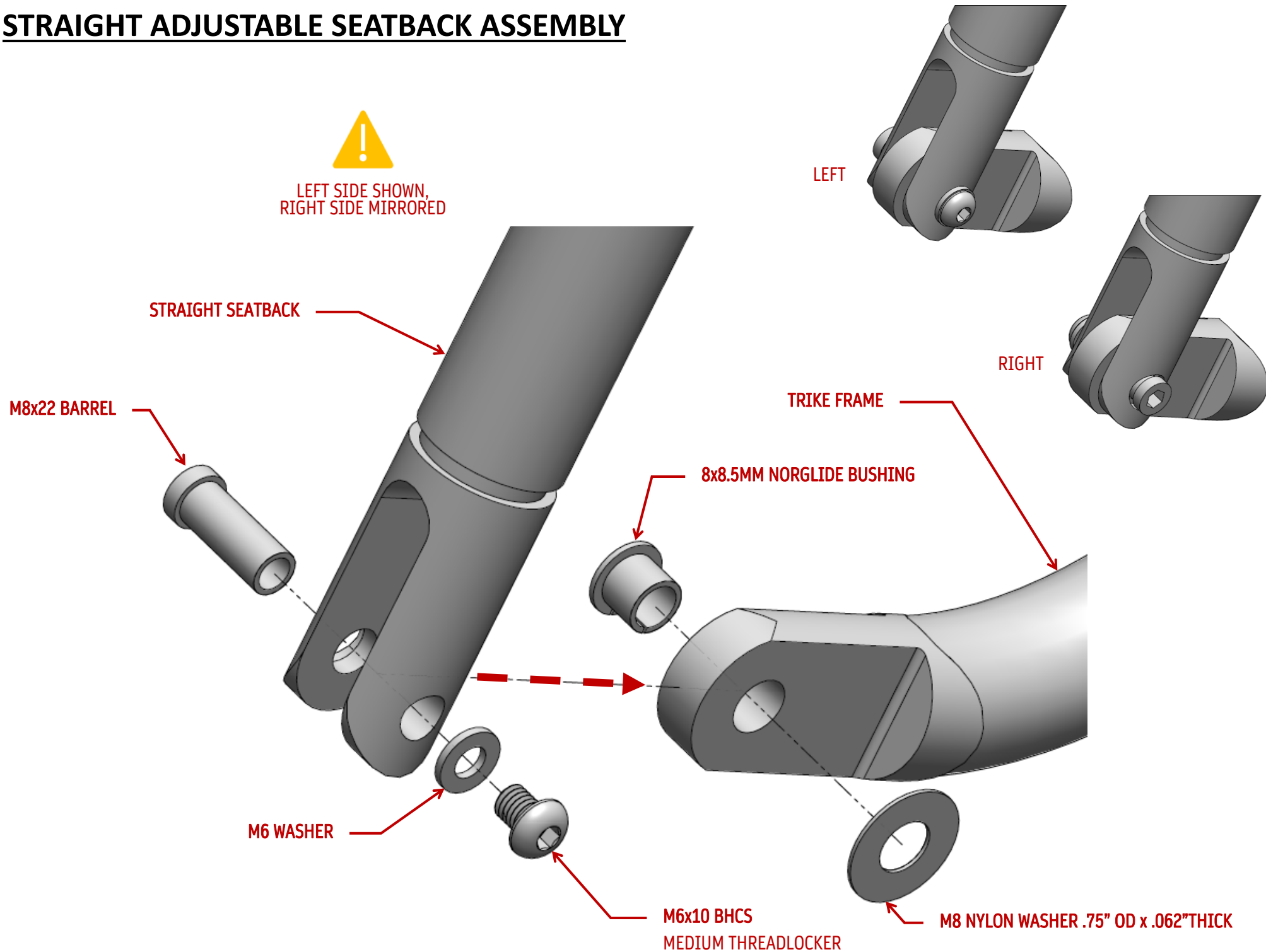
CHAIN ROUTING



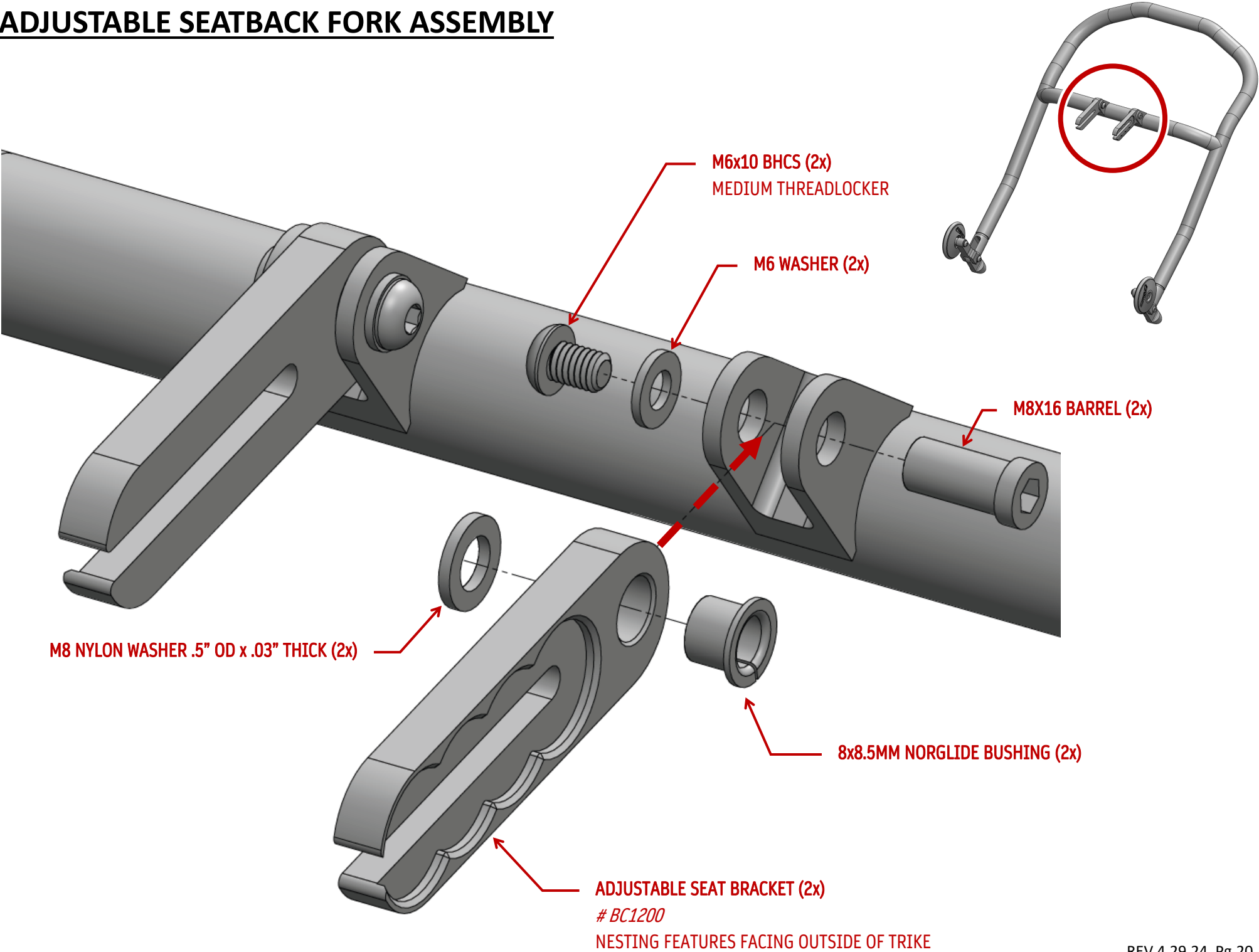
STRAIGHT ADJUSTABLE SEATBACK ASSEMBLY



LEFT SIDE SHOWN,
RIGHT SIDE MIRRORED



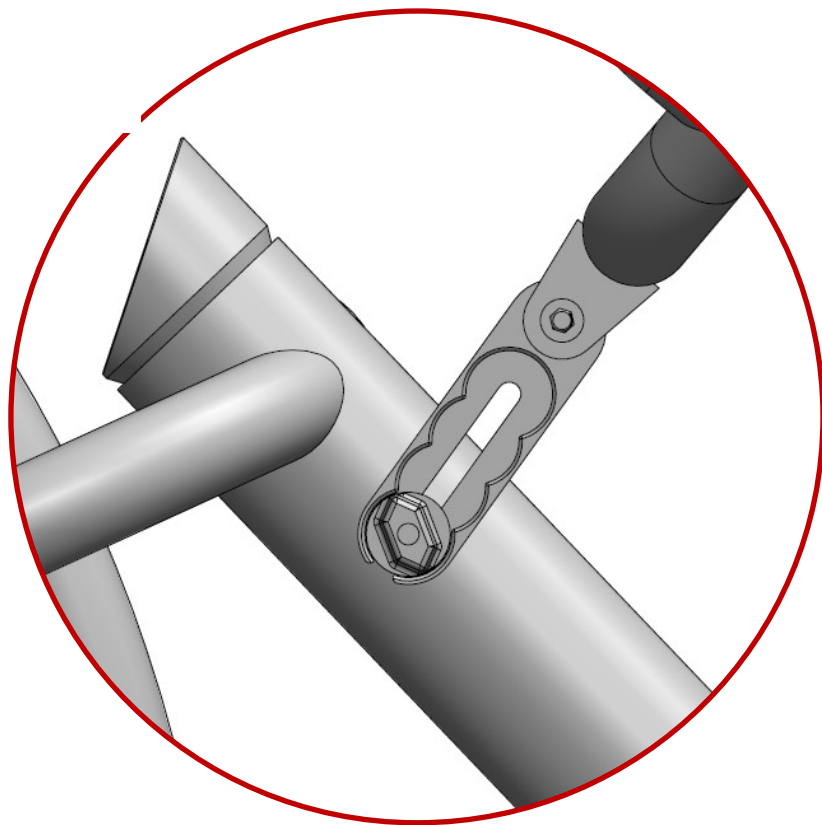
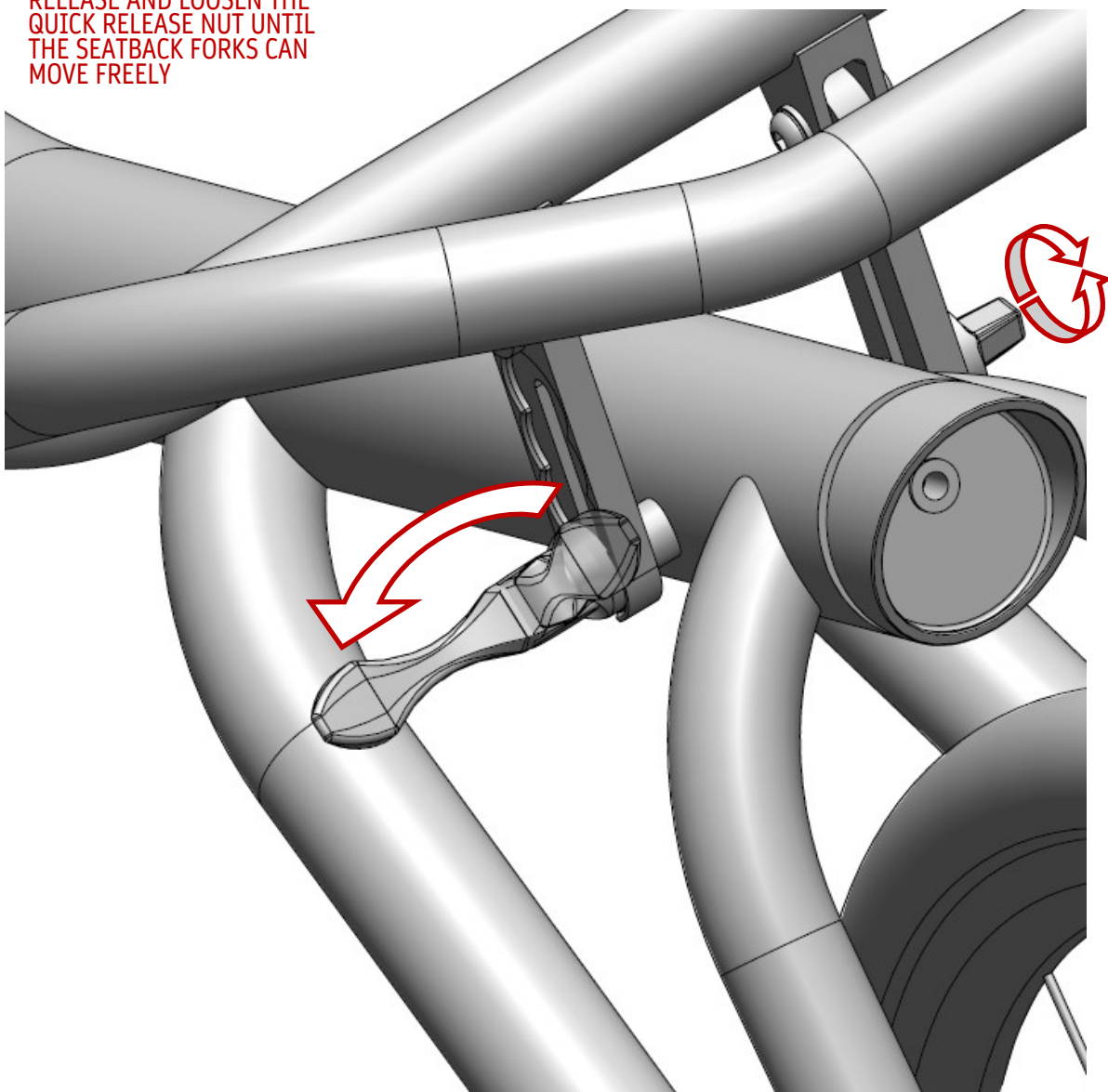
ADJUSTABLE SEATBACK FORK ASSEMBLY



ADJUSTABLE SEATBACK ADJUSTMENT

STEP1

OPEN THE SEATBACK QUICK
RELEASE AND LOOSEN THE
QUICK RELEASE NUT UNTIL
THE SEATBACK FORKS CAN
MOVE FREELY



STEP2

SLIDE THE SEAT INTO ONE OF
THE FOUR POSITIONS ON THE
ADJUSTMENT FORK

STEP3

TIGHTEN QUICK RELEASE NUT SO THAT
WHEN CLOSING THE QUICK RELEASE
HANDLE THE SEATBACK DOES NOT MOVE

EKIT BATTERY CLAMP ASSEMBLY



DO NOT TIGHTEN
BOLTS ALL THE
WAY YET

BATTERY MOUNT CLAMP WELDED
BC1419

BATTERY MOUNT CLAMP SHIM
BC1423
WRAP AROUND MAINFRAME TUBE

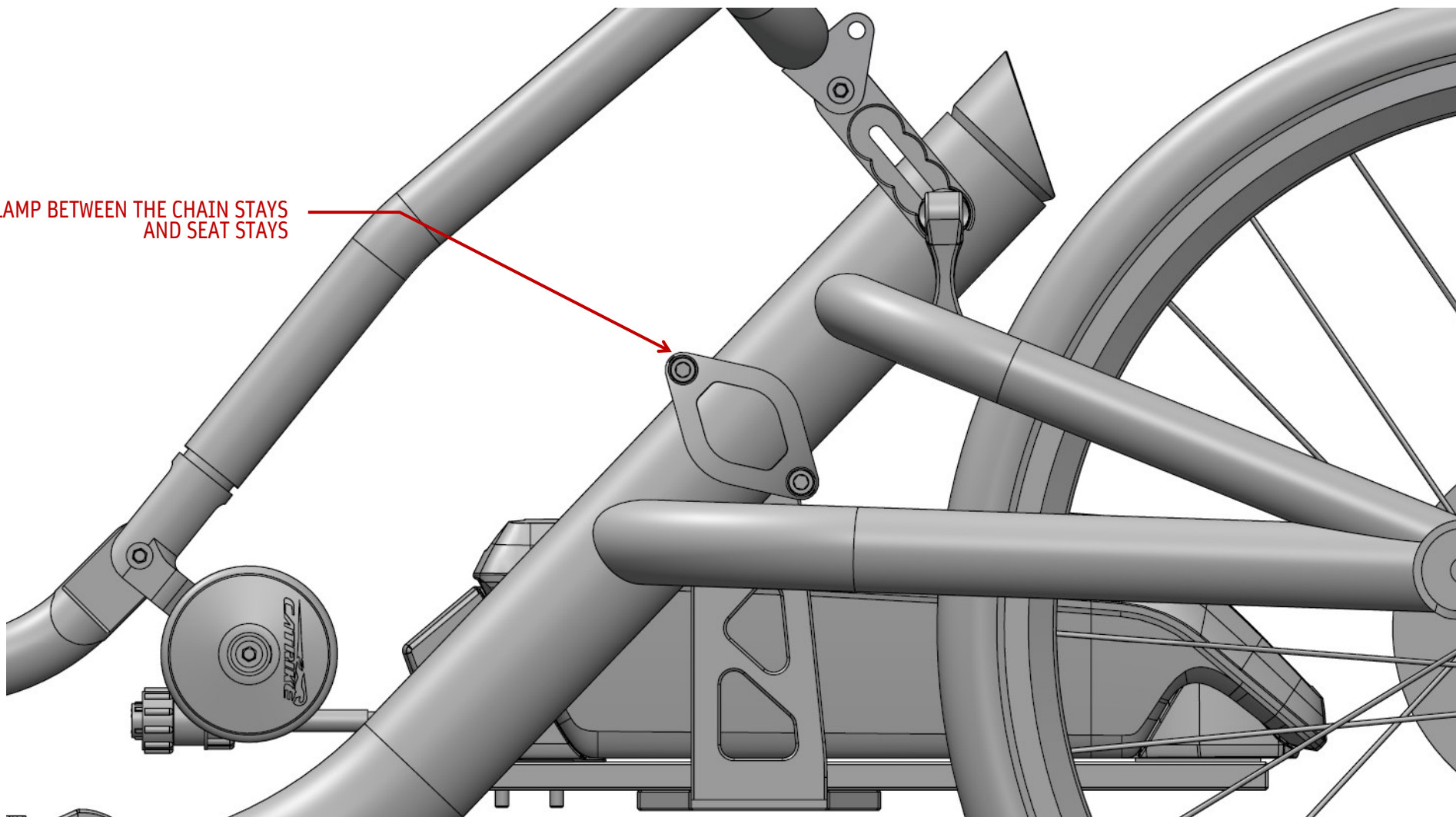
BATTERY MOUNT OUTER CLAMP
BC1420

M6 SMALL OD WASHER (2x)

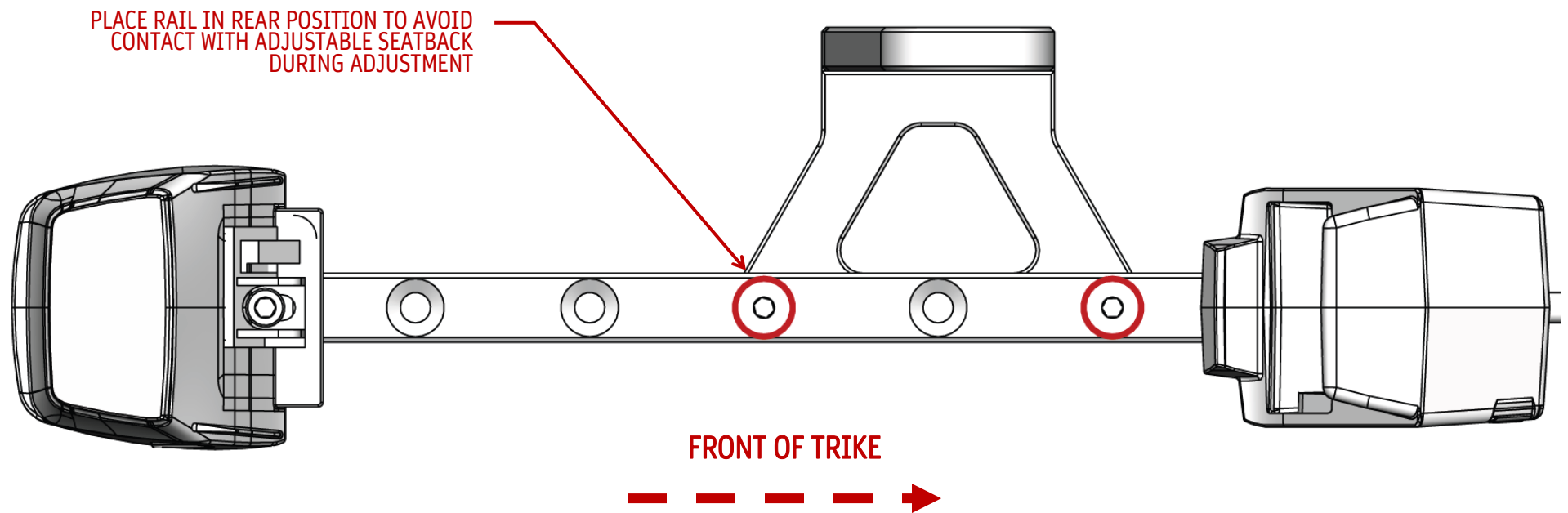
M6x25 SHCS (2x)
LIGHTLY GREASE THREADS

EKIT BATTERY CLAMP POSITION

PLACE CLAMP BETWEEN THE CHAIN STAYS
AND SEAT STAYS



EKIT BATTERY RAIL POSITION



EKIT BATTERY RAIL ASSEMBLY


**DO NOT TIGHTEN
BOLTS ALL THE
WAY YET UNLESS
SPECIFIED**

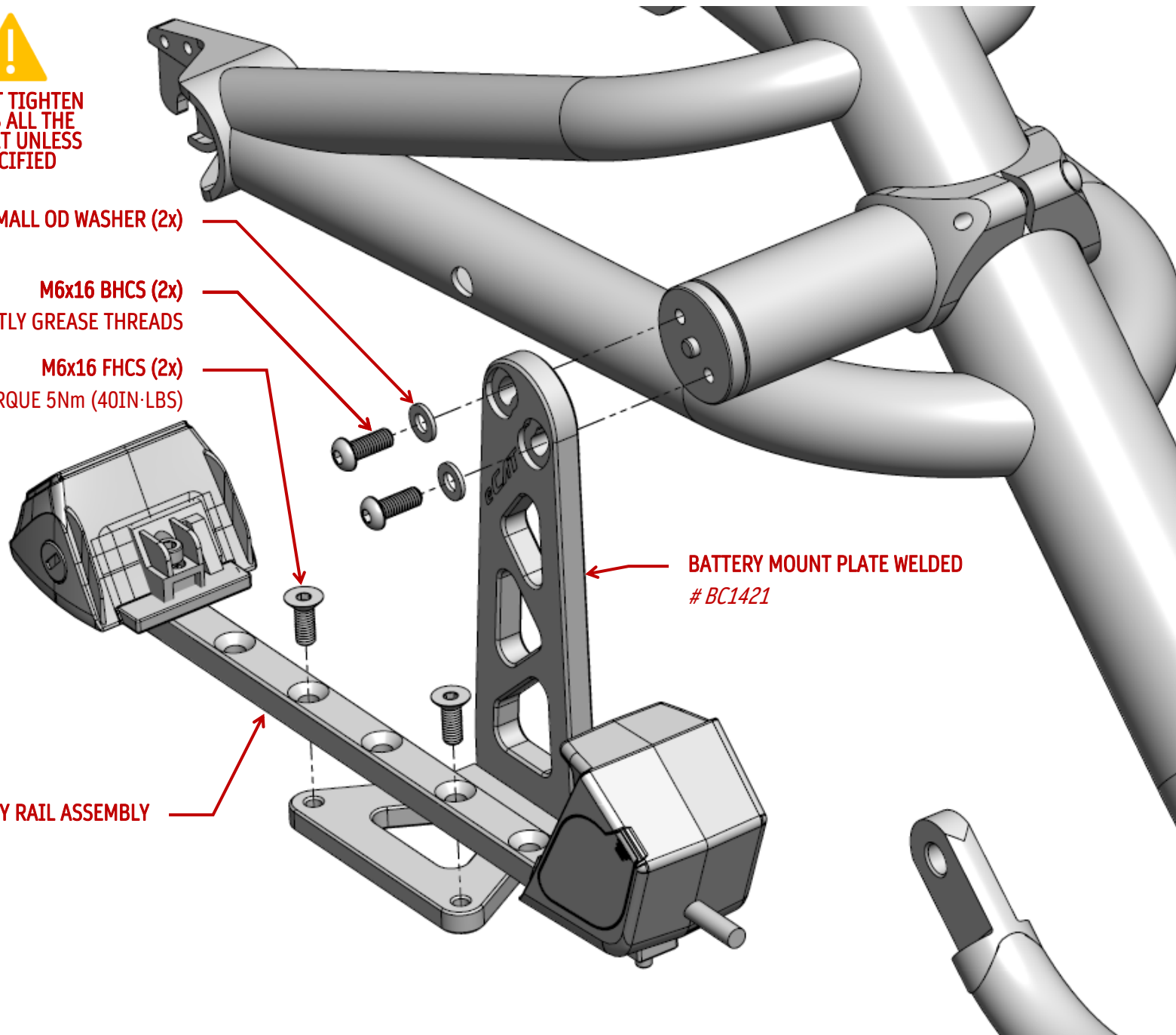
M6 SMALL OD WASHER (2x)

M6x16 BHCS (2x)
LIGHTLY GREASE THREADS

M6x16 FHCS (2x)
TORQUE 5Nm (40IN-LBS)

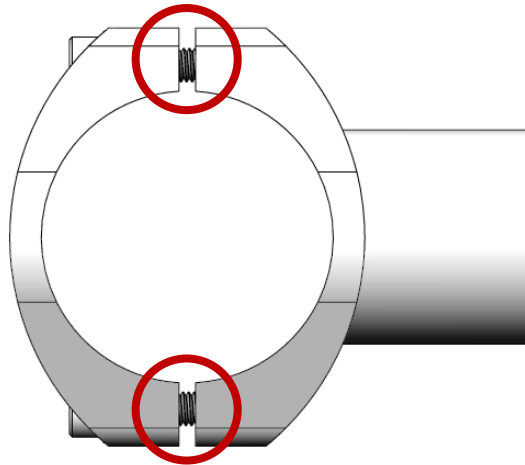
**BATTERY MOUNT PLATE WELDED
BC1421**

BATTERY RAIL ASSEMBLY

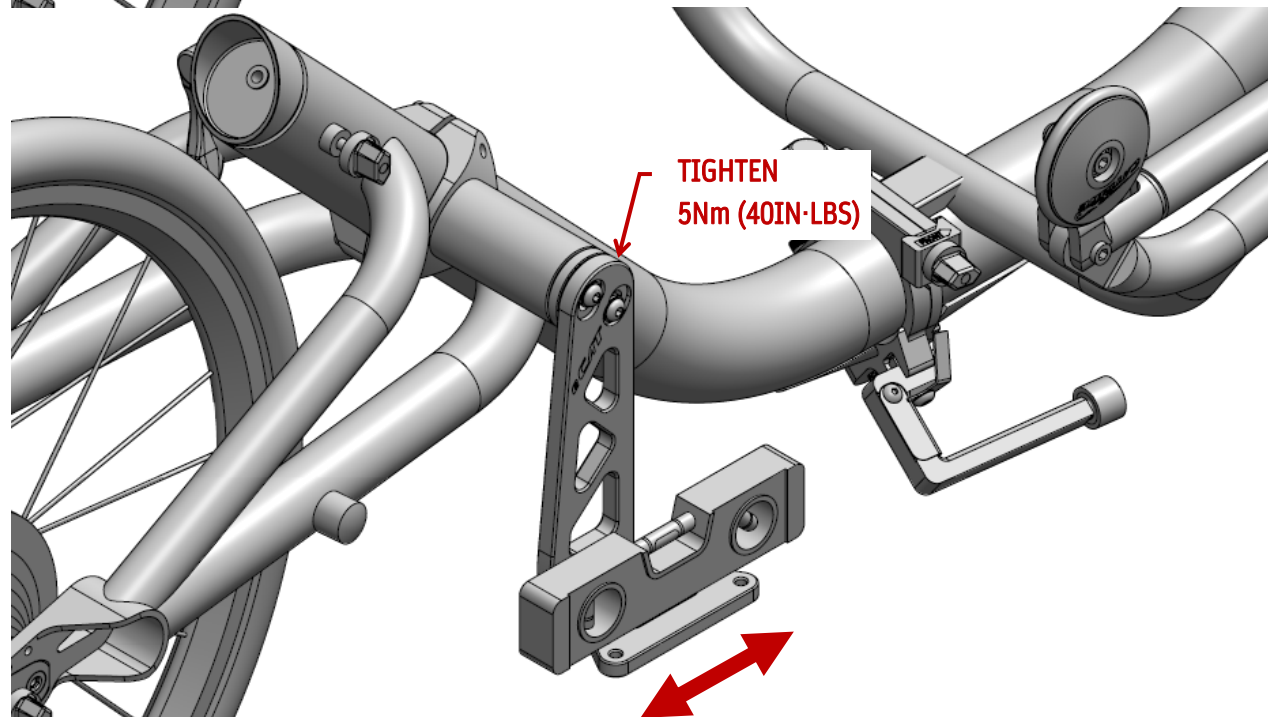
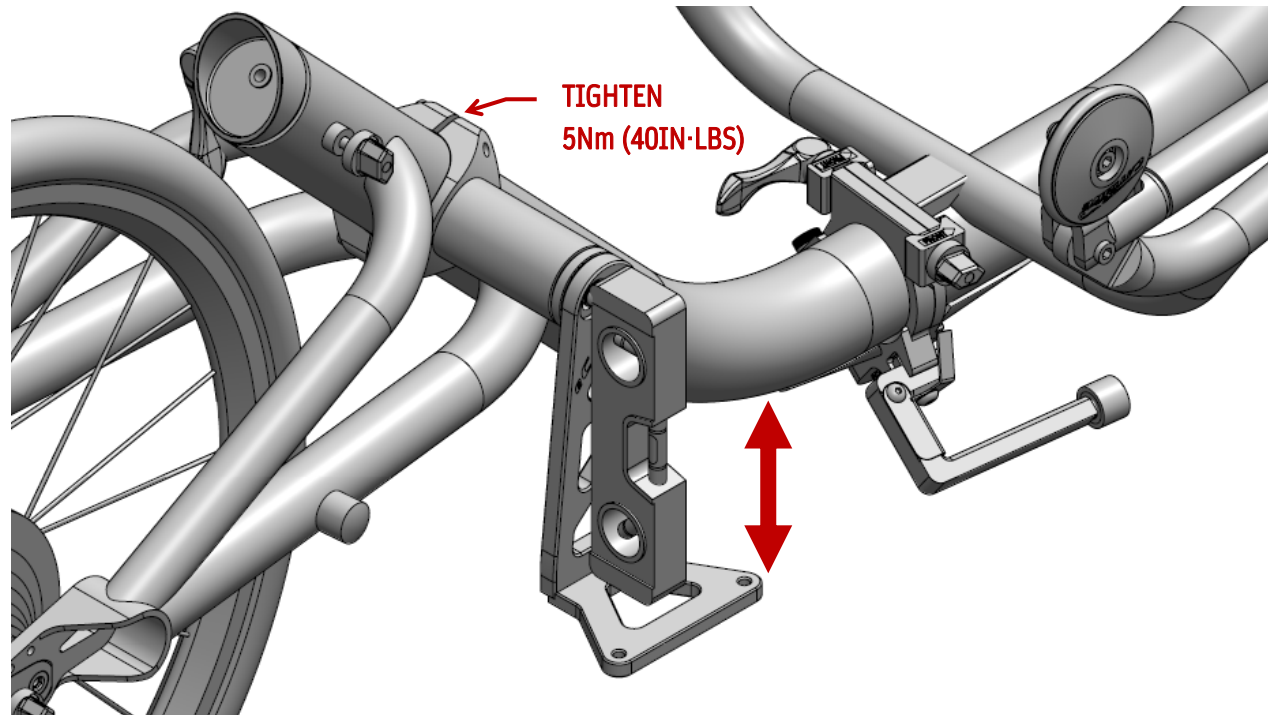


EKIT BATTERY CLAMP LEVEL

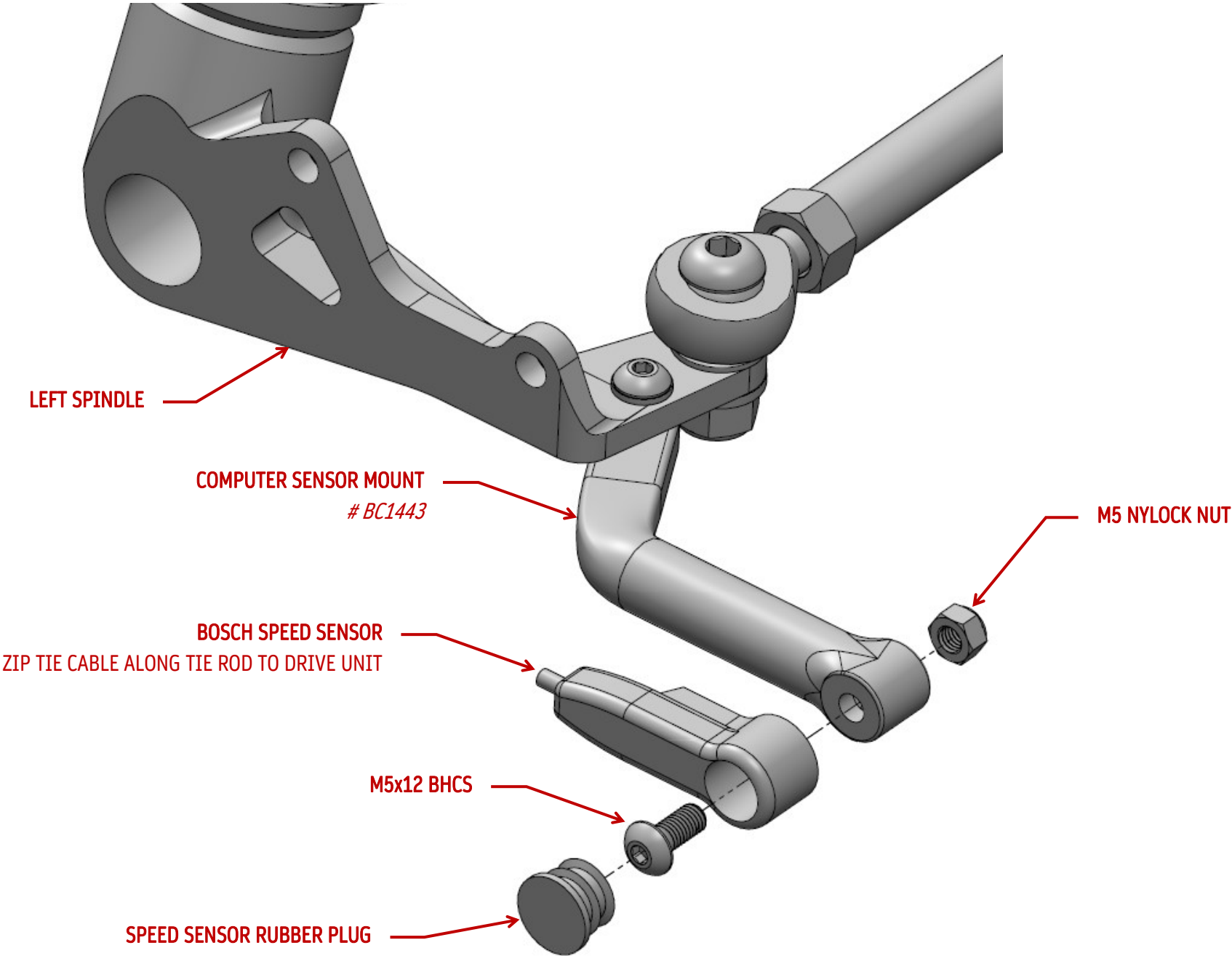
LEVEL EACH OF THE SHOWN AXIS
FOR THE BATTERY CLAMP AND
BRACKET BEFORE TIGHTENING
THE RESPECTIVE BOLTS



ENSURE EVEN GAP ON
CLAMP WHEN TIGHTENING

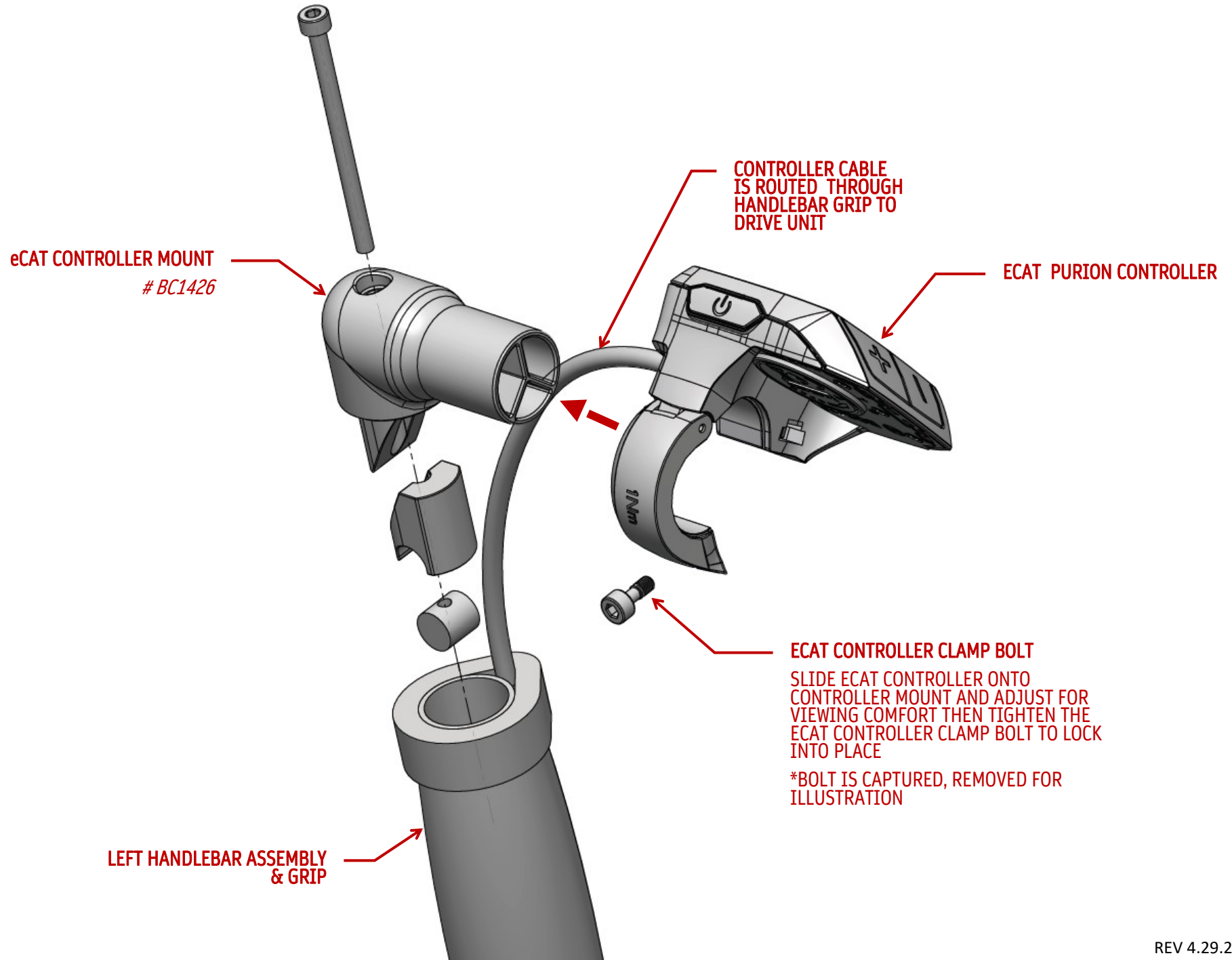


EKIT SPEED SENSOR ASSEMBLY

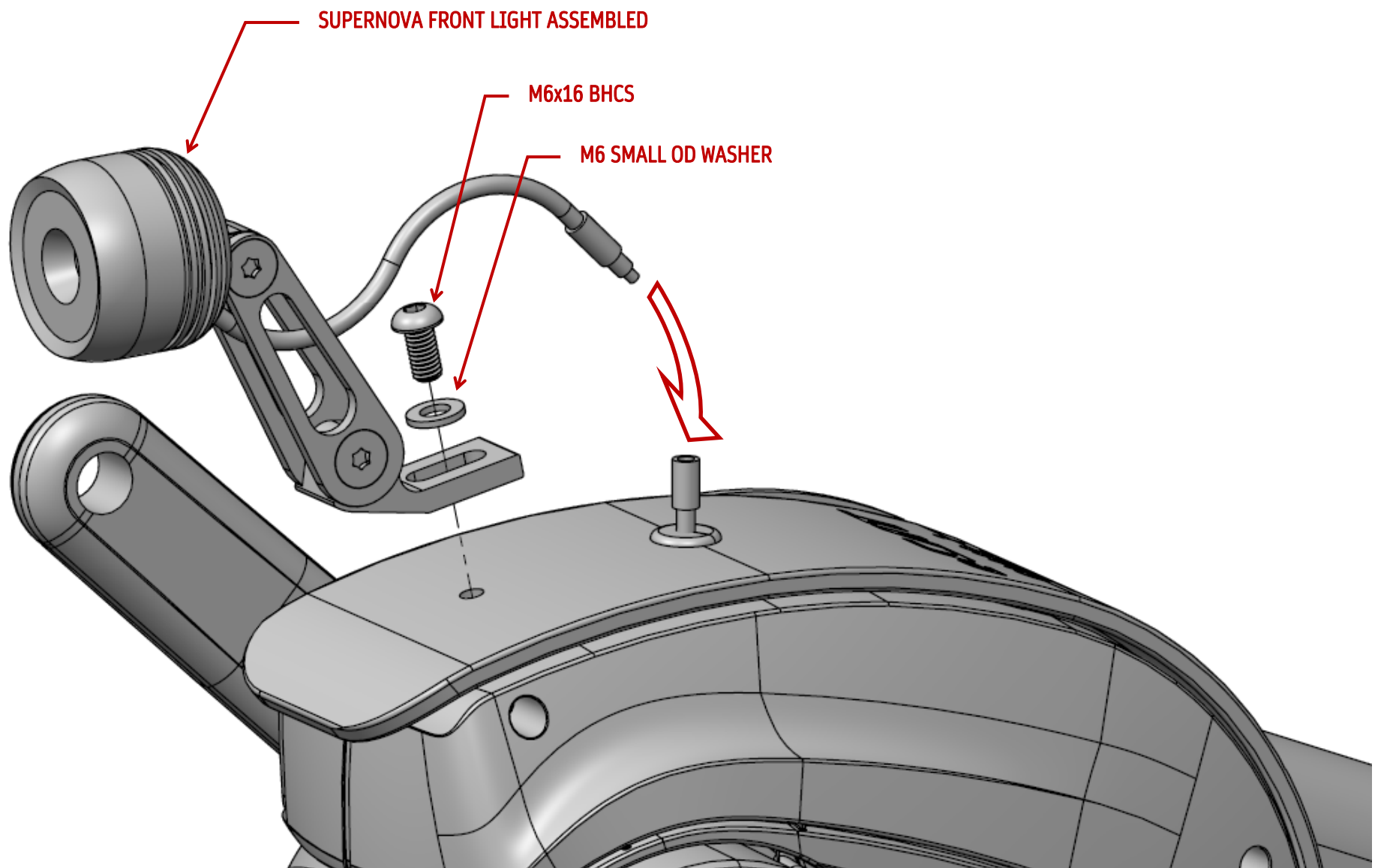


EKIT CONTROLLER ASSEMBLY

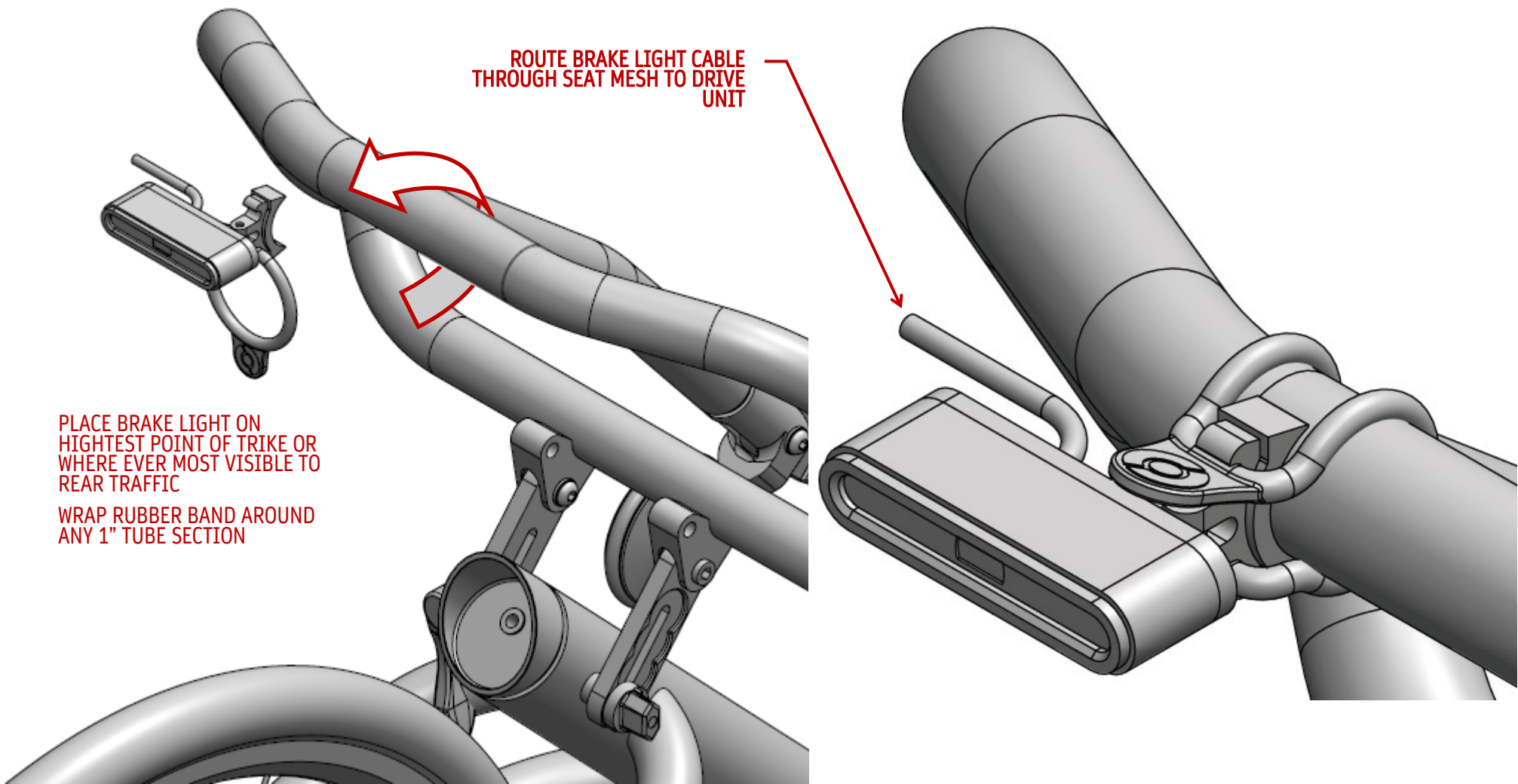
ALL E-CATS



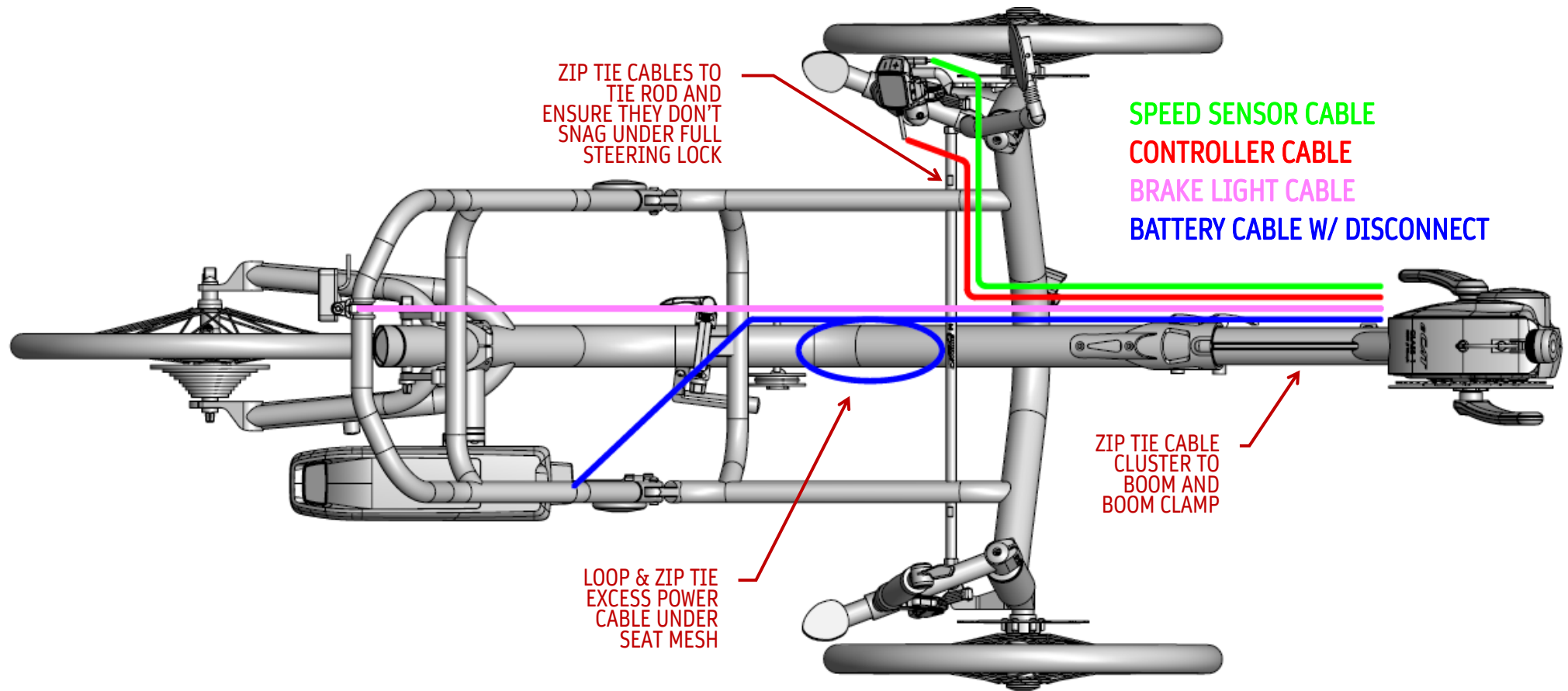
EKIT FRONT LIGHT ASSEMBLY



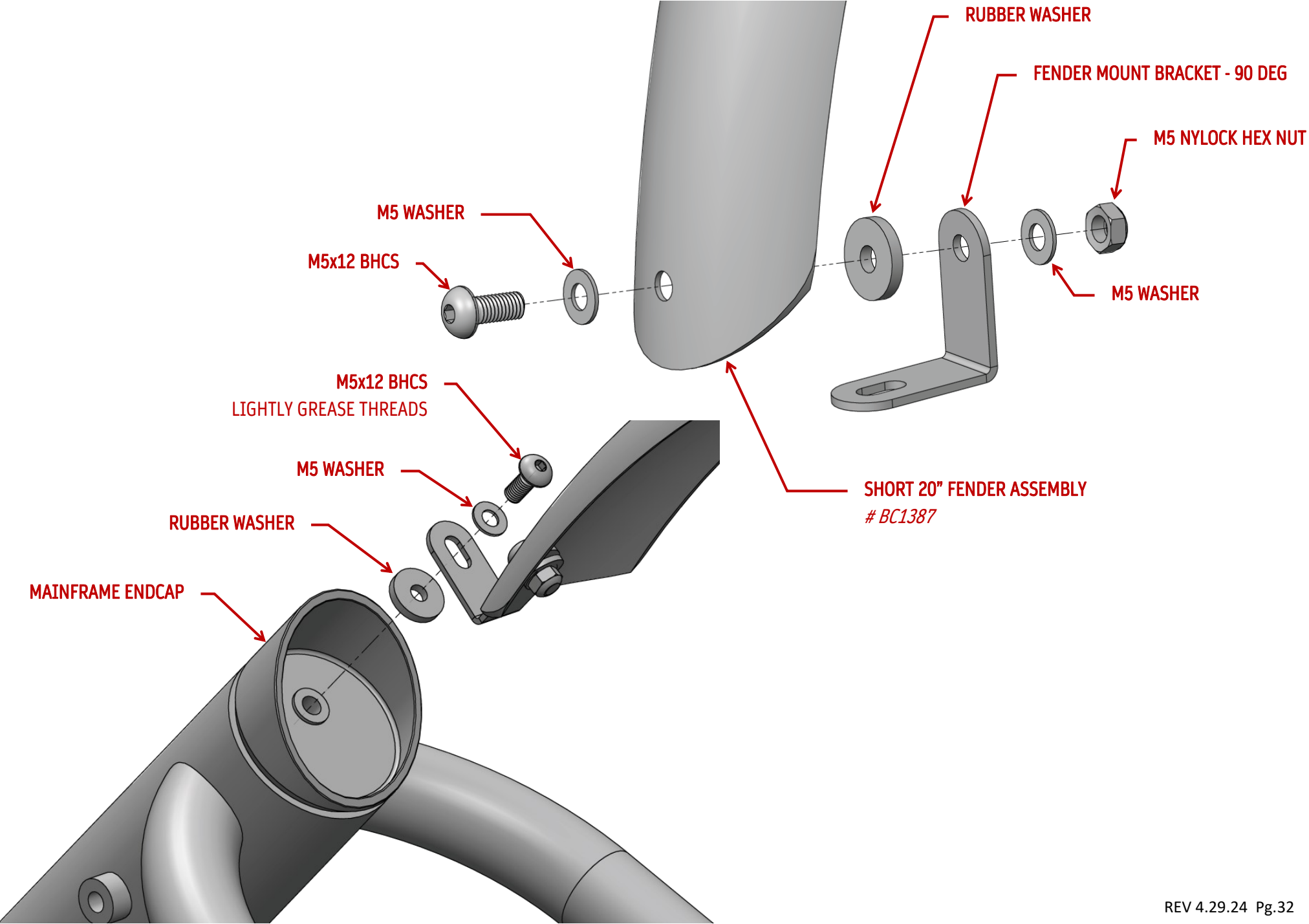
EKIT REAR LIGHT ASSEMBLY



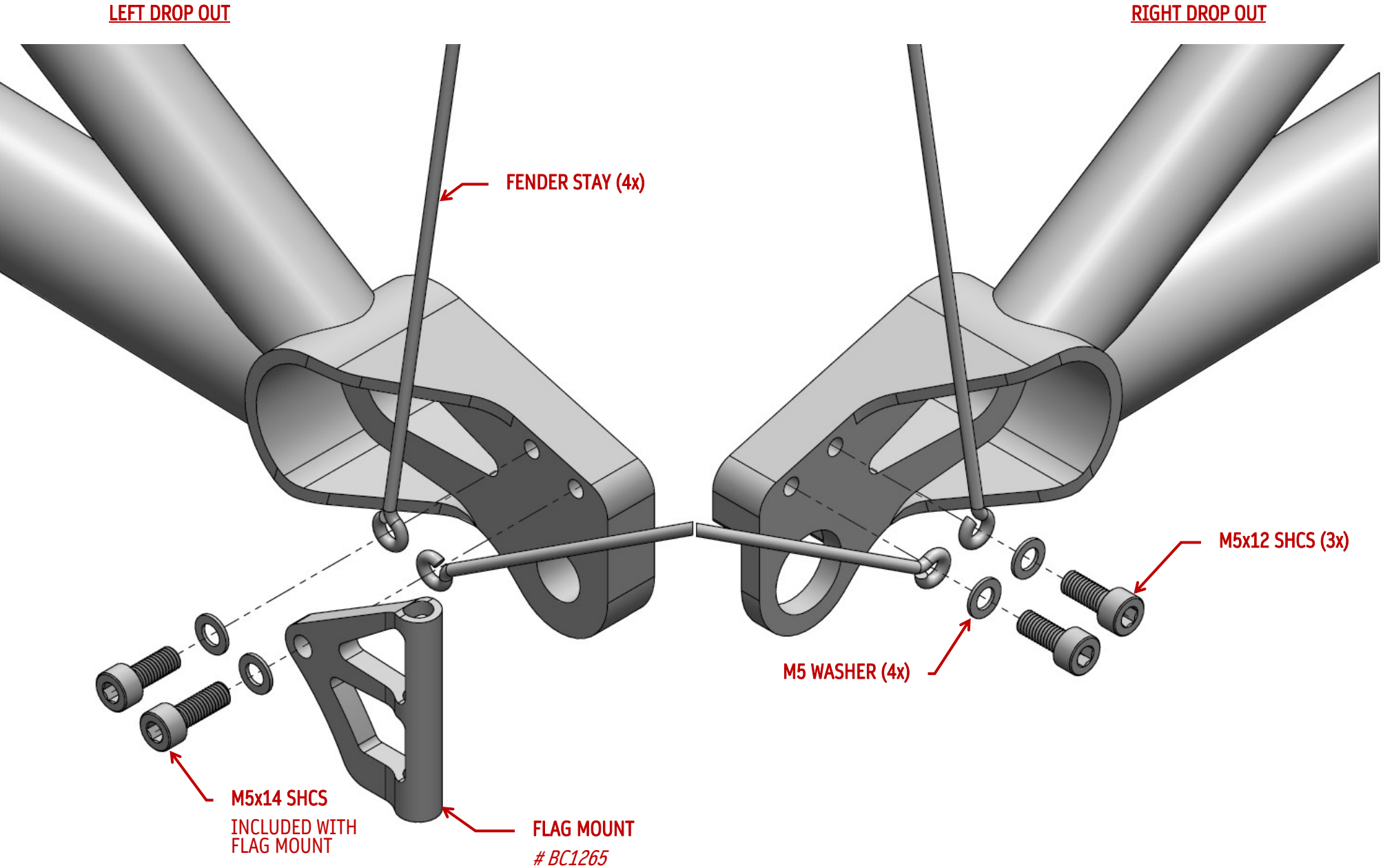
EKIT CABLE ROUTING



FENDER TO FRAME INSTALLATION



FENDER TO DROP OUT INSTALLATION



FENDER STAYS & FINAL INSTALLATION

