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My E-118 Tri+ Disc

Date of purchase: _____

Retailer: _____

Size: _____

Serial Number: _____

For the warranty to be valid, the bicycle must be fully assembled by an authorized Argon 18 dealer. High end components, particularly carbon parts, need extra care when assembled. These components must be installed using a calibrated torque wrench to make sure every bolt is at the right torque setting to prevent damage.

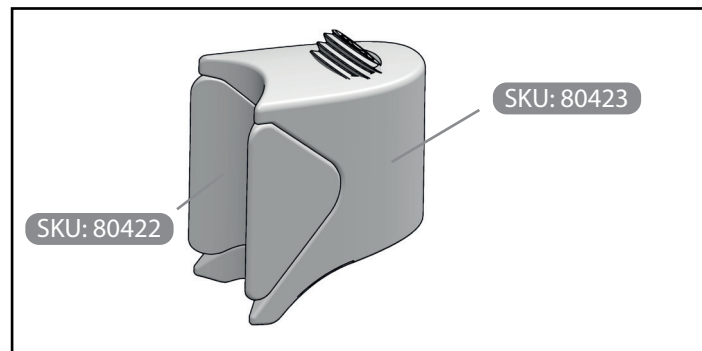
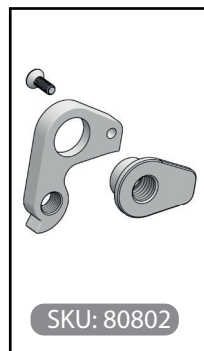
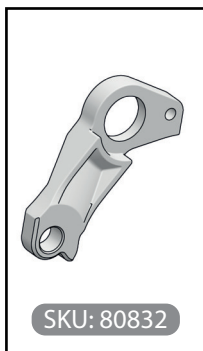


Tools needed for assembly

- 1: Bearing Cup Press (Park Tool HHP-2)
- 2: Allen Key Set
- 3: Grease
- 4: Utility Pick Set (Park Tool Item # UP-SET)
- 5: Clean Rags
- 6: Derailleur Hanger Alignment Gauge (Park Tool Item # DAG-2,2)
- 7: Cables and Housing Cutter
- 8: Carbon Paste
- 9: Loctite #242 or #243
- 10: Torque Wrench

First Aid Kit: Essential parts to always have on hand
IN CASE OF EMERGENCY...THIS MIGHT SAVE YOUR RIDE!

- 1: Spare rear dropout (SKU: 80832 for Direct Mount and 80802 for regular)
 - 2: Spare brake pads corresponding to your caliper and disc model
 - 3: Seat post clamp (SKU: 80423, 80422)
- IMPORTANT: the E-118 Tri+ Disc's seat post clamp is not the same as the Nitrogen Disc





BEFORE ASSEMBLING YOUR NEW E-118 TRI+ DISC, MAKE SURE THAT YOU HAVE ALL THE FOLLOWING:

1. Brakes hoses, gears cables and housing set
2. Frameset parts checklist (see p.6-7-8)
- 3: All the necessary bolts (refer to Frameset Parts, p.6-7-8)

WHEN ASSEMBLING YOUR NEW E-118 TRI+ DISC, MAKE SURE YOU FOLLOW THIS PROCEDURE:

- 4: Inspect the frame for cosmetic aspect (scratches, bumps, cracks, paint defect, etc.)
- 5: For reference, check serial number and write it on p.2
- 6: For optimal shifting performance, use a dropout alignment gauge to make sure that the rear derailleur hanger is straight.

IMPORTANT:

The following parts are assembled on the frame. When assembling the bike, you will need to adjust these parts according to their torque specifications.

Parts installed on the frame	Description	Screw type	Torque Nm	Detail
Rear derailleur hanger	Screw (1)	4mm	2Nm	Threadlocker
Bottle cage	Screw (4)	5mm	3Nm	Grease
Bottom bracket cover	Screw (2)	4mm	2.5Nm	Grease

**Brakes**

Use only flat mount hydraulic disc brakes. The frame and fork are compatible with either 140mm or 160mm disc rotors. Adapters might be required, consult brake manufacturer.

- Rear mount thickness: 30mm

Tire Clearance

Compatibilities of standard tires with this bikes: 700x 28c (30mm) – Any tire/rim combination compatible.

Bottom Bracket

BB86 (Press-fit)

Headset Bearings

Upper and lower bearings: MR054 (1 1/8 - 36/45), Argon18 SKU# 80476.

Armrests and Elbow Pads

E-118 Tri+ armrests and pads (SKU# 81129/81130) are compatible with E-119 Tri handlebars, and vice-versa. E-119 Tri / E-119 Tri+ armrests and pads (SKU # 80077/80078/80080) are available separately.

Chainring Compatibilities

The frame is compatible with double-chainring cranksets having a big chainring of 50T up to 58T (or oval chainring equivalent to 58T).

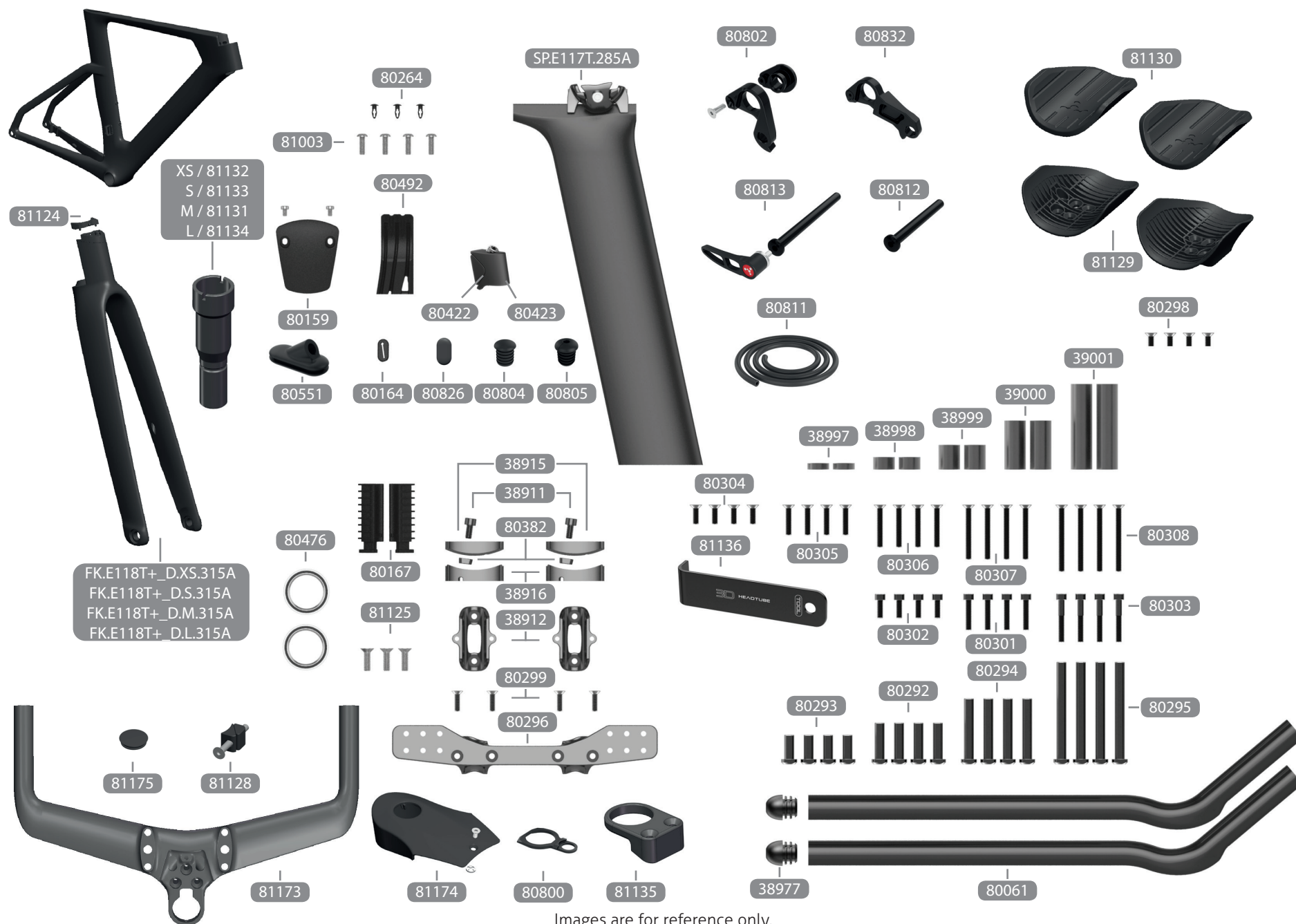
Saddle Rails:

If your saddle rails are not round and made of metal, please refer to Ritchey's part numbers. These replacement parts are not sold by Argon 18 but available on Ritchey's website (ritcheylogic.com).

COMPATIBLE WITH ELECTRONIC SHIFTING ONLY!

The E-118 Tri+ is not compatible with mechanical groupsets. It is optimised for Shimano Di2 and SRAM eTap AXS.

Please contact customer service for any further inquiries.



Images are for reference only.

Argon 18 reserves the right to modify/change parts of the frameset at any moment without prior notice.

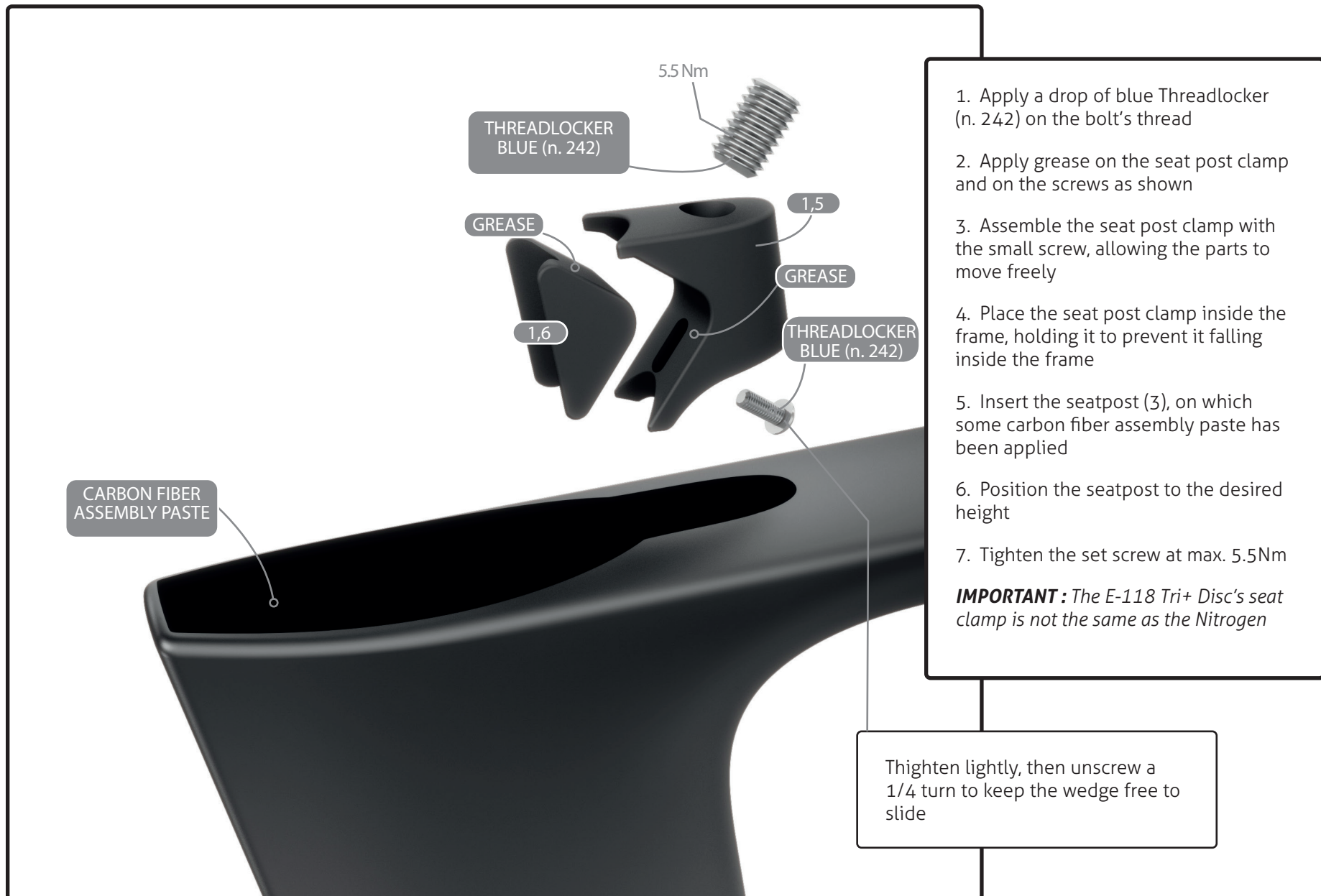


No.	Name	A18 SKU#	Qty
1.1	E-118 TRI+ FRAME	NOT AVAILABLE AS SPARE PART	1
1.2	FRONT DERAILLEUR HANGER (RIVETED ON THE FRAME)	NOT AVAILABLE AS SPARE PART	1
1.3.1	REAR DERAILLEUR HANGER STANDARD		
1.3.2	REAR DROPOUT DS	80802	1 KIT
1.3.3	REAR DERAILLEUR HANGER SCREW M4x12 FLAT HEAD		
1.4	REAR DERAILLER HANGER DIRECT MOUNT	80832	1
1.5.1	BB CABLE COVER		
1.5.2	BB CABLE COVER SCREW M4x6	80159	1 KIT
1.6.1	SEAT POST COLLAR BASE W. SCREW M8x12	80423	1
1.6.2	SEAT POST COLLAR WEDGE W. SCREW M3x8	80422	1
1.7	LONG PLUG	80804	1
1.8	LONG GROMMET DI2	80805	1
1.9	OBLONG HYDRAULIC BRAKE HOUSING GROMMET	80551	1
1.10	FD CABLE ENTRY GROMMET	80164	1
1.11	FD CABLE ENTRY PLUG	80826	1
1.12	WATER BOTTLE SCREW - M5x16	81003	4
1.13	PLASTIC PLUG M5	80264	3
2	E-118 TRI+ FORK ASSEMBLY	FK.E118T+_D.XS.315A FK.E118T+_D.S.315A FK.E118T+_D.M.315A FK.E118T+_D.L.315A	1
2.1	FORK ROTATION BUMPER	81124	1
2.2	FLAT HEAD CAP SCREW FOR M6x35 FOR BASEBAR ASSEMBLY	81125	3
3	E-118 TRI+ SEATPOST ASSEMBLY (SAME AS E-117 TRI SEATPOST)	SP.E117T.285A	1
3.1	SEATPOST HEAD (N/A IN SPARE PART; AVAILABLE AT RITCHEYLOGIC.COM)	NOT AVAILABLE AS SPARE PART	1
3.2	DI2 BATTERY HOLDER FOR AERO SEATPOST	80167	1
4	HANDLEBAR ASSEMBLY	81173	1
4.1	HANDLEBAR COVER (INCLUDING M3 NYLON WASHER AND M3x6 SCREW)	81174	1 KIT
4.2	HANDLEBAR WEDGE	81128	1 KIT
4.3	CONSOLE RING DI2	80800	1
4.4	COVER CAP PLUG (INCLUDING O-RING)	81175	1 KIT
5.1	EXTENSION BARS (KIT OF 2)	80061	1 KIT
5.2	ARMREST (R AND L)	81129	1 KIT
5.3	ARMREST PADS (KIT OF 2)	81130	1 KIT

*Except for the frame itself, which is not sold as a spare part, all parts can be ordered by referring to their respective SKU number.



No.	Name	A18 SKU#	Qty
5.4.1	SWIVEL LOWER BRACKET	38916	1
5.4.2	SWIVEL UPPER BRACKET	38915	1
5.4.3	SWIVEL SQUARE NUT	80382	2
5.4.4	SWIVEL SCREW (M6x12)	38911	2
5.5	5mm ARMREST SPACER	38997	2
5.6	10mm ARMREST SPACER	38998	2
5.7	20mm ARMREST SPACER	38999	2
5.8	40mm ARMREST SPACER	39000	2
5.9	70mm ARMREST SPACER	39001	2
5.10	MEDIUM SLEEVE NUT (30mm)	80292	4
5.11	SMALL SLEEVE NUT (24mm)	80293	4
5.12	LARGE SLEEVE NUT (44mm)	80294	4
5.13	X-LARGE SLEEVE NUT (74mm)	80295	4
5.14	EXTENSION CONNECTOR BASE	38912	2
5.15	EXTENSION CONNECTOR TOP PLATE	80296	1
5.16	DI2 END CAP	38977	2
5.17	FLAT HEAD HEX SCREW (M6x20)	80297	3
5.18	FLAT HEAD HEX SCREW (M5x10)	80298	4
5.19	FLAT HEAD HEX SCREW (M5x18)	80299	4
5.20	FLAT HEAD HEX SCREW (M5x12)	80300	4
5.21	SOCKET HEAD CAP SCREW (M5x25)	80301	4
5.22	SOCKET HEAD CAP SCREW (M5x15)	80302	4
5.23	SOCKET HEAD CAP SCREW (M5x35)	80303	4
5.24	FLAT HEAD HEX SCREW (M5x15)	80304	4
5.25	FLAT HEAD HEX SCREW (M5x25)	80305	4
5.26	FLAT HEAD HEX SCREW (M5x35)	80306	4
5.27	FLAT HEAD HEX SCREW (M5x45)	80307	4
5.28	FLAT HEAD HEX SCREW (M5x55)	80308	4
6	E-118 TRI+ STEERER MEDIUM	81131	1
	E-118 TRI+ STEERER X-SMALL	81132	
	E-118 TRI+ STEERER SMALL	81133	
	E-118 TRI+ STEERER LARGE	81134	
7	HEADSET BEARINGS (TOP AND BOTTOM)	80476	2
8	TRANSPORT COLLAR	81135	1
9	FRONT AXLE	80812	1
10	REAR AXLE WITH REMOVABLE HANDLE	80813	1
11	STEERER L-TOOL 32mm	81136	1
12	FOAM LINER FOR HYDRAULIC HOSE	80811	1





1. Unscrew main bolt (A) as far as possible without fully removing it from the lock nut.
 2. Install the saddle rails into the seatpost clamp (B).
 3. Slide saddle clamp (B) onto rocker (C).
 4. Tighten the bolt up at 12Nm.
- See p.27 for saddle adjustment.

IMPORTANT:

The E-118 Tri+ Disc's saddle rail clamp is made for metal and round-shaped saddle rails (For part numbers contact Ritchey).

For other types of saddle rails, please refer to the Tips and Troubleshooting section of this Assembly Guide (p.5).



The Di2 battery is hidden in the seatpost; use the Di2 battery holder (3.2) to fix the battery correctly. Apply a slight amount of grease on both parts.



1. Select the correct rear derailleur hanger depending on the type of derailleur that you have.

- Direct mount (1.4)
- Regular mount (1.3.1)

2. Make sure to align the rear derailleur hanger using a Derailleur Hanger Alignment Gauge like Park Tool Item #DAG-2,2.

For any assistance, visit Park Tool's website:

www.parktool.com/product/derailleur-hanger-alignment-gauge-dag-2-2



Assembled Fork and Steerer



1. Install the Fork Rotation Bumper (2.1) on the fork by inserting the three prongs into the fork's stem insert holes.

2. Apply grease on the top and bottom bearings (7) and on the bearings' contact surfaces on the steerer (6), fork (2) and frame (1.1).

2. Install the top bearing inside the frame's head tube.

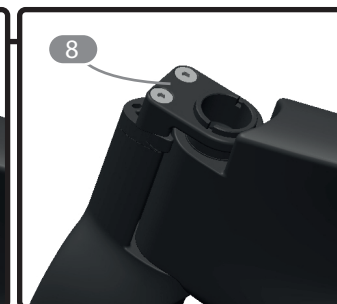
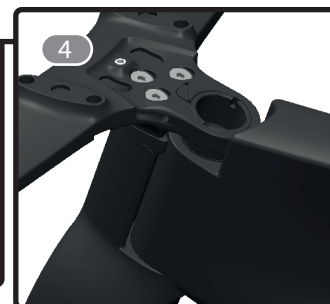
3. Install the bottom bearing over the fork's taper bearing race.

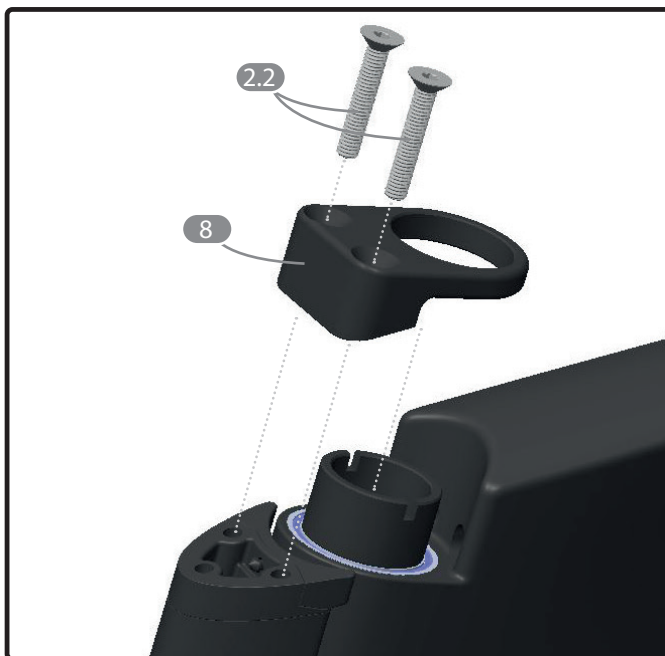
4. Install the fork by placing the lower part first, and then balancing the upper part in its final position parallel to the frame's head tube.

5. Apply grease on the steerer's threads, slide the steerer into the frame's head tube and screw into the fork's threaded insert. Use the Steerer L-Tool (11) provided to tighten from the top or a 10mm Allen key to tighten from the underside.

WARNING

The fork will not be safe and secured to the frame until either the handlebar (4) or the transport collar (8) is assembled. See pages 21 and 14, respectively.



**TIPS FOR TRAVELING**

The Transport Collar (8) is meant to secure the fork onto the frame during transportation in a bike box or bike bag if the handlebar needs to be removed.

Disassembly steps:

1. Remove the Handlebar Cover (4.1) by unscrewing the M3 screw.
2. Untighten the Handlebar Wedge (4.2) and the three M6x35 screws (2.2), then carefully remove the handlebar and place it on the right side of the frame.
3. Install the Transport Collar (8) using two of the M6x35 screws (2.2).
4. Protect the frame and fork, then attach the handlebar to the frame's top tube.
5. Install the bike in the bike box, according to the manufacturer's instructions.

Re-assembly steps:

1. Remove the Transport Collar. Tip: always store it in your bike box or tool box.
2. Follow the Handlebar Installation steps (p.21).
3. Enjoy the ride!



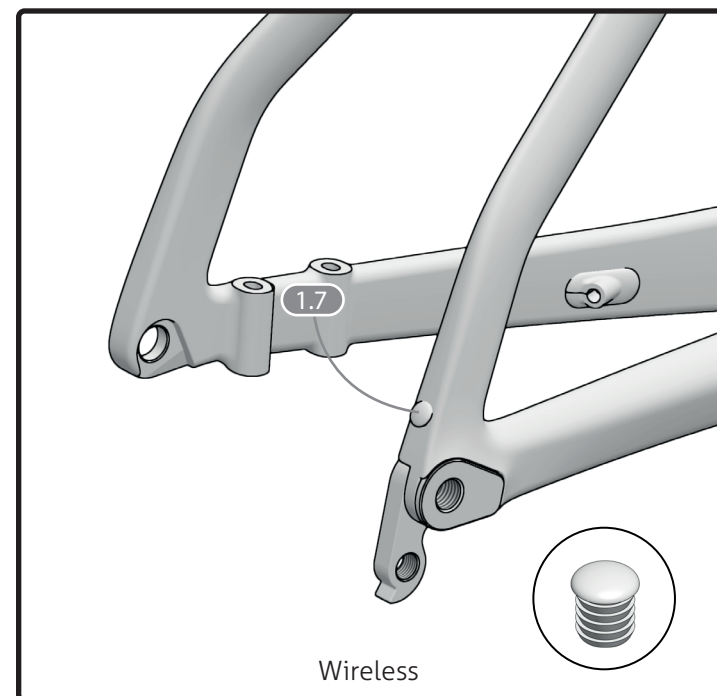
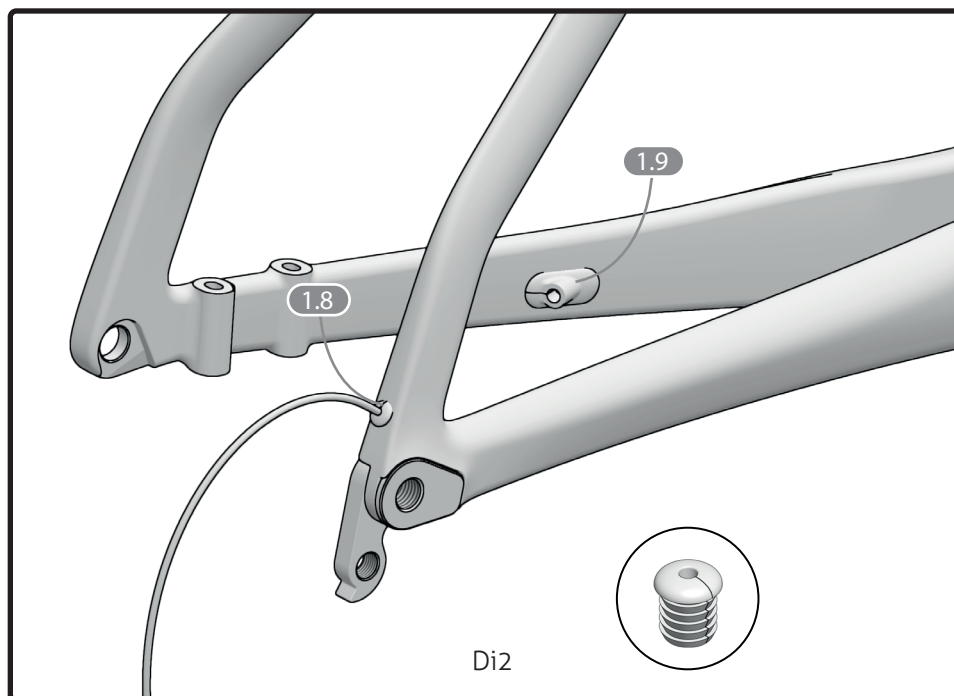


IMPORTANT: Install cable housing before installing the bottom bracket, crank, and fork.

Make sure to use the brake hose foam liner to prevent any rattling noise.

— Di2 cable
— Brake Hose

Note : Brake hose is routed
above the bottom bracket

**IMPORTANT:**

For the Di2 cable section that runs through the drive side chainstay, use the preinstalled tube guide that is supplied with the frame.

Use the proper cable grommet to fix the rear derailleur cable correctly depending if you use Di2 shifting (1.8) or wireless shifting (1.7).

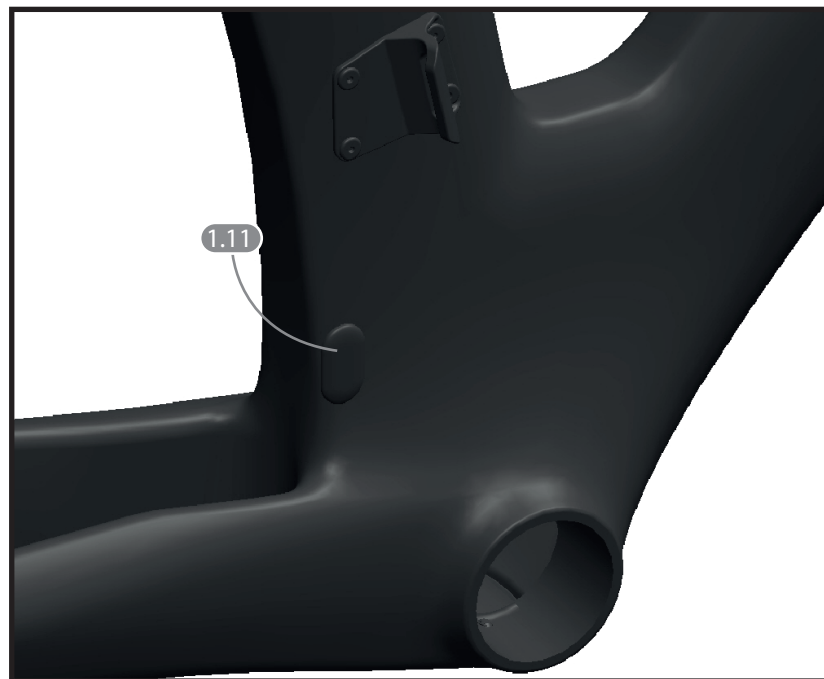
Use the Oblong Grommet (1.9) to fix the rear brake hydraulic hose at the CS opening.

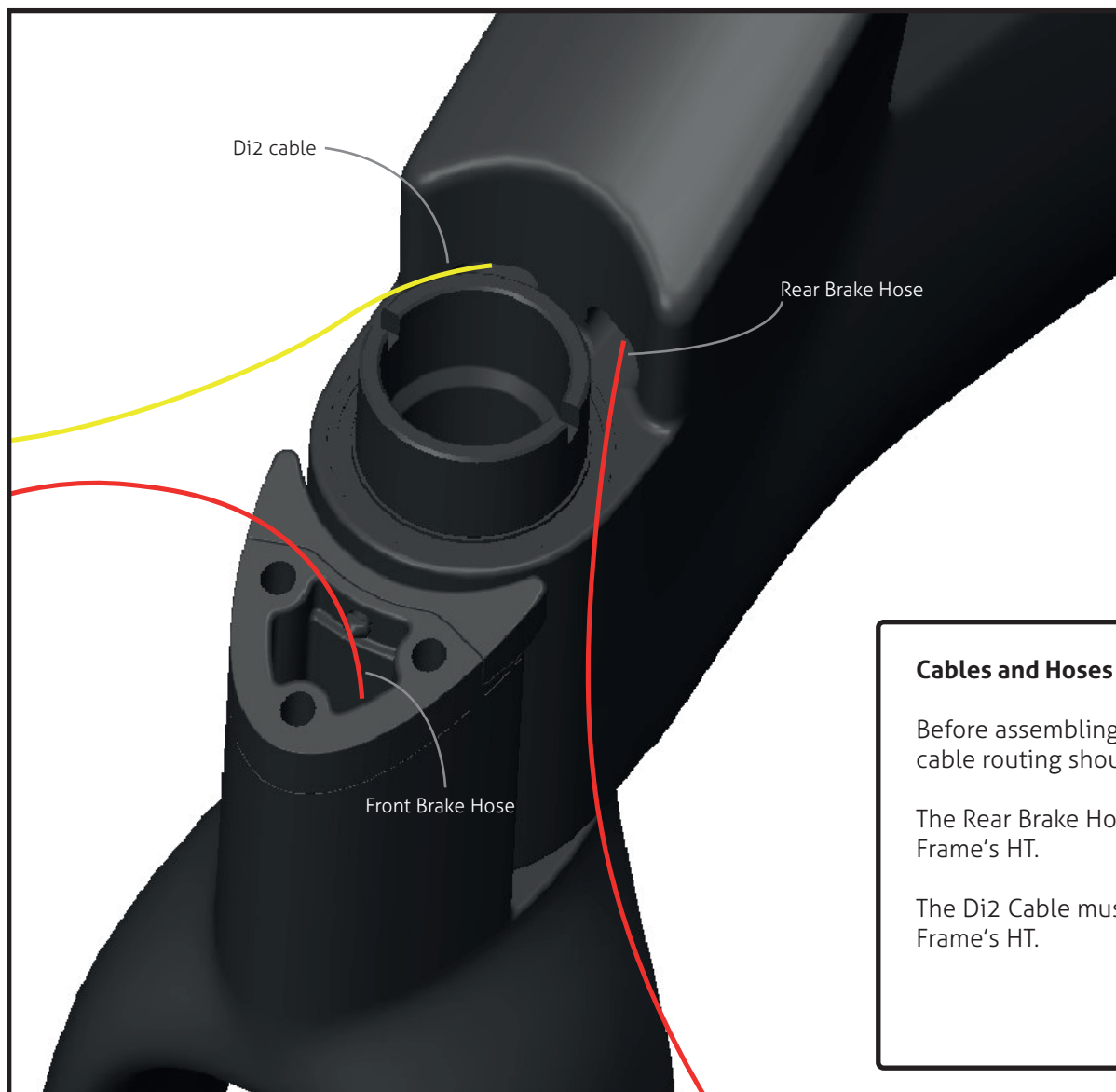
**Bottom Bracket Section**

The BB Cable Cover (1.5.1) and screws (1.5.2) can be removed to ease the cable routing. Reassemble by greasing the screw and torquing them to 2.5Nm.

For Di2 shifting with a front derailleur, use the FD Cable Entry Grommet (1.10) to fit the Di2 cable out of the frame.

For single chainring or wireless configurations, use the FD Cable Entry Plug (1.11).

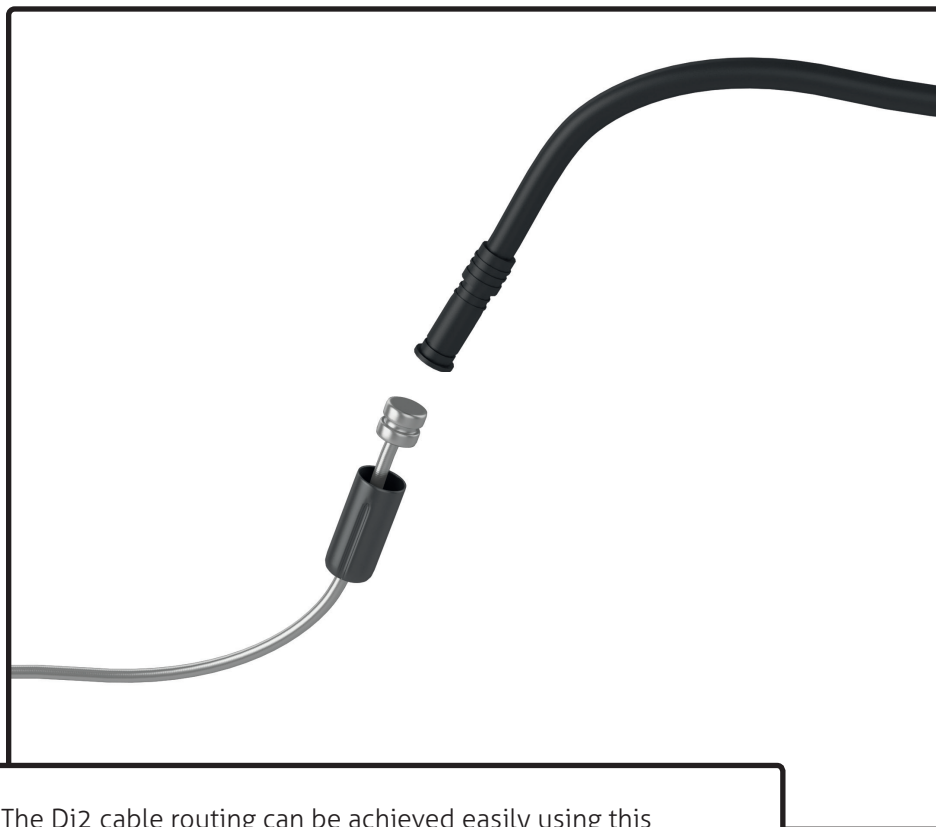


**Cables and Hoses out of the Frame and Fork**

Before assembling the Handlebar, the Frame and Fork cable routing should be completed.

The Rear Brake Hose must come out of the left-side of the Frame's HT.

The Di2 Cable must come out of the right-side of the Frame's HT.

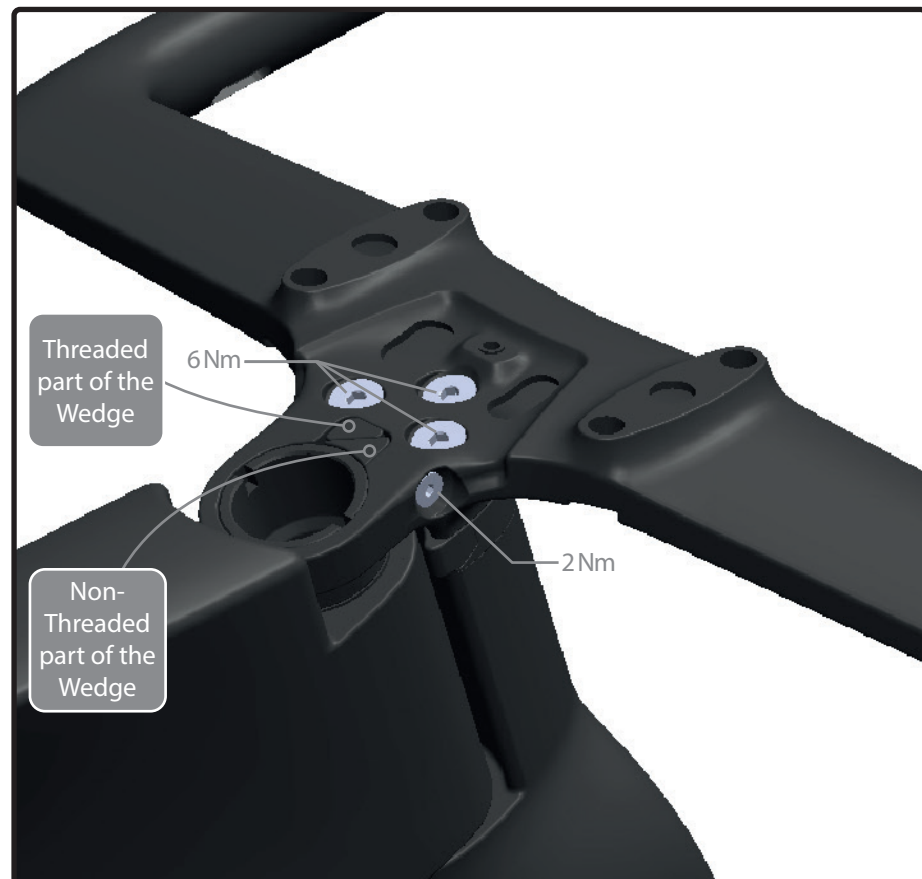
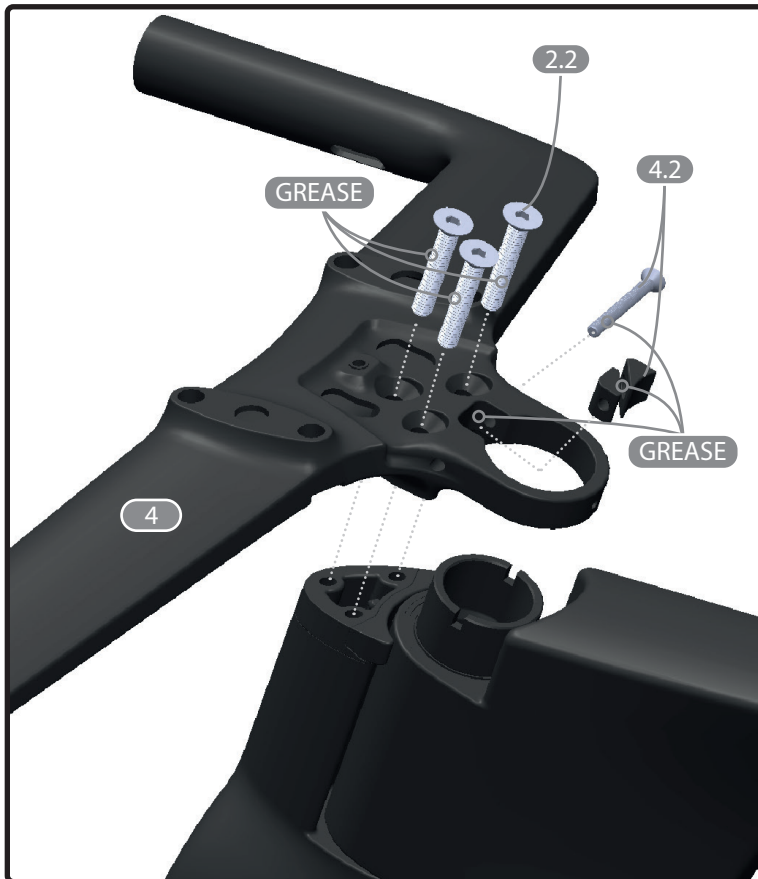


The Di2 cable routing can be achieved easily using this simple trick: use a gear cable and a metal cable end to fix the Di2 cable. For more information on Shimano Di2 electronic system installation, go to: si.shimano.com.





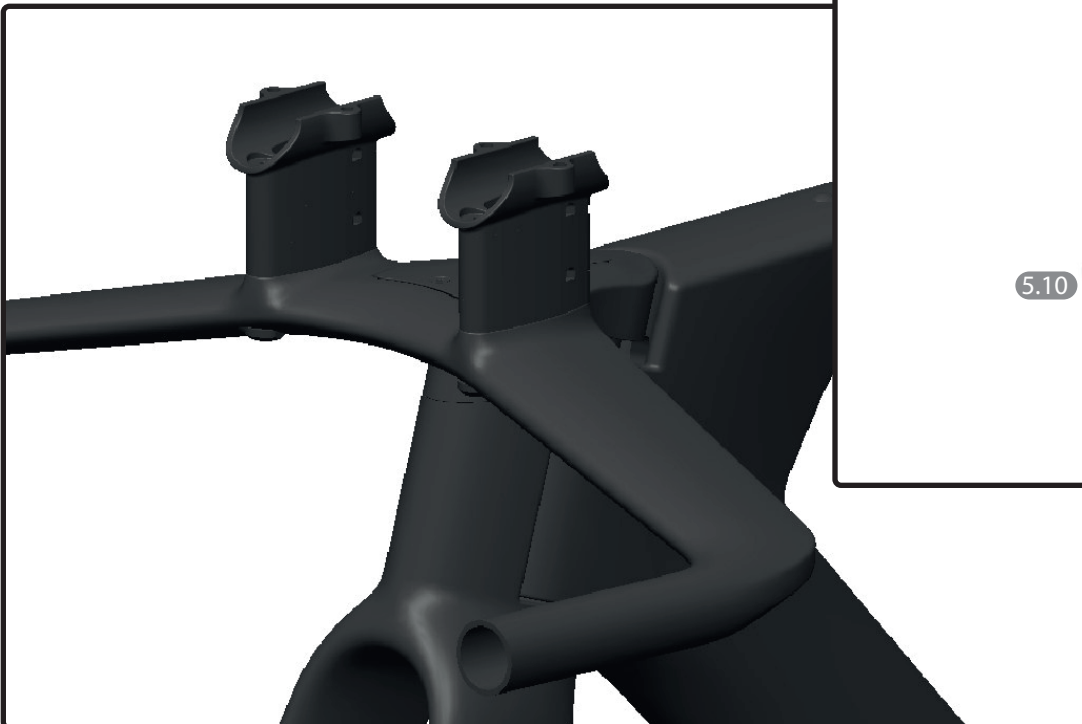
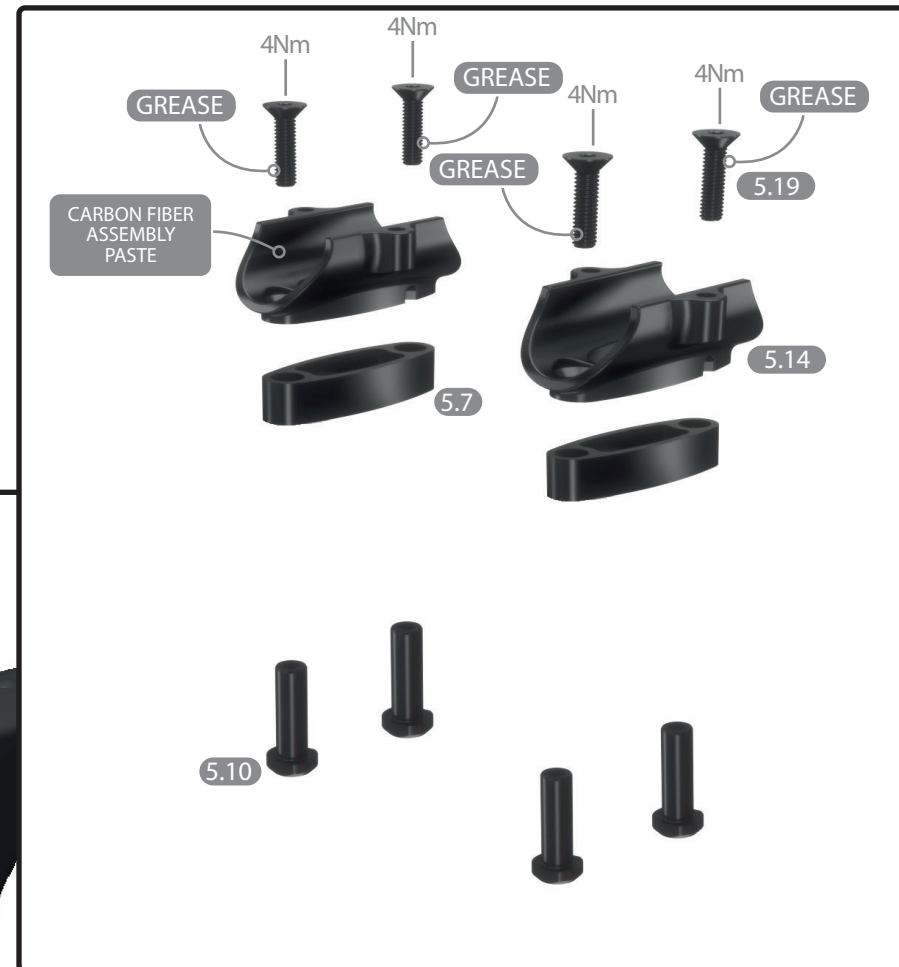
1. Apply grease on the Handlebar Wedge (4.2). Insert the screw into the right-side hole of the handlebar, then into the non-threaded part of the wedge and finally into the threaded part of the wedge. Do not tighten, keep the Wedge assembly loose.
2. Install the handlebar on the fork and steerer. Apply a dab of grease on all bolts (2.2) and tighten to 6Nm in an alternate way.
3. Tighten the steerer until there is no more play into the headset.
4. Torque the Handlebar Wedge at 2Nm.





Install vertical spacers (5.6 - 5.9) and two sleeve nuts (5.10 - 5.13), according to your preferred stack height.

See next page for stack configuration options.





Parts needed to adjust pads stack's height

Total stack height (mm) 0 5 10 15 20 25 30

WITH SWIVEL

Required spacer	X	X	X	X	None	5	10
Sleeve nut					20mm	20mm	30mm
Screw (socket head)					15mm	25mm	15mm

WITHOUT SWIVEL

Required spacer	None	5	10	5 + 10	20	5 + 20	10 + 20
Sleeve nut	20mm	20mm	30mm	30mm	30mm	30mm	50mm
Screw (flat head)	15mm	25mm	15mm	25mm	25mm	35mm	15mm

Total stack height (mm) 35 40 45 50 55 60 65

WITH SWIVEL

Required spacer	5 + 10	20	5 + 20	10 + 20	5 + 10 + 20	40	5 + 40
Sleeve nut	30mm	30mm	30mm	50mm	50mm	50mm	50mm
Screw (socket head)	25mm	25mm	35mm	15mm	25mm	25mm	35mm

WITHOUT SWIVEL

Required spacer	5 + 10 + 20	40	5 + 40	10 + 40	5 + 10 + 40	20 + 40	5 + 20 + 40
Sleeve nut	50mm	50mm	50mm	50mm	50mm	80mm	80mm
Screw (flat head)	25mm	25mm	35mm	35mm	45mm	15mm	25mm

Total stack height (mm) 70 75 80 85 90 95 100

WITH SWIVEL

Required spacer	10 + 40	X	20 + 40	5 + 20 + 40	70	5 + 70	10 + 70
Sleeve nut	50mm		80mm	80mm	80mm	80mm	80mm
Screw (socket head)	35mm		15mm	25mm	25mm	35mm	35mm

WITHOUT SWIVEL

Required spacer	70	5 + 70	10 + 70	5 + 10 + 70	20 + 70	5 + 20 + 70	10 + 20 + 70
Sleeve nut	80mm	80mm	80mm	80mm	80mm	80mm	80mm
Screw (flat head)	25mm	35mm	35mm	45mm	45mm	55mm	55mm

Notes:

- Always place the smaller spacers underneath
- Make sure you have at least 10 full threads on each screw
- Every spacer's screws must be tighten at 4Nm
- The M6 screw (5mm allen key) that enables the swivel's adjustment must be tightened at 8Nm
- The screws linking the extensions connectors to the swivel are 12mm long (M5 flat head)



For an inclined position, use the swivel assembly (5.4).

STEP 1: Swivel assembly content:

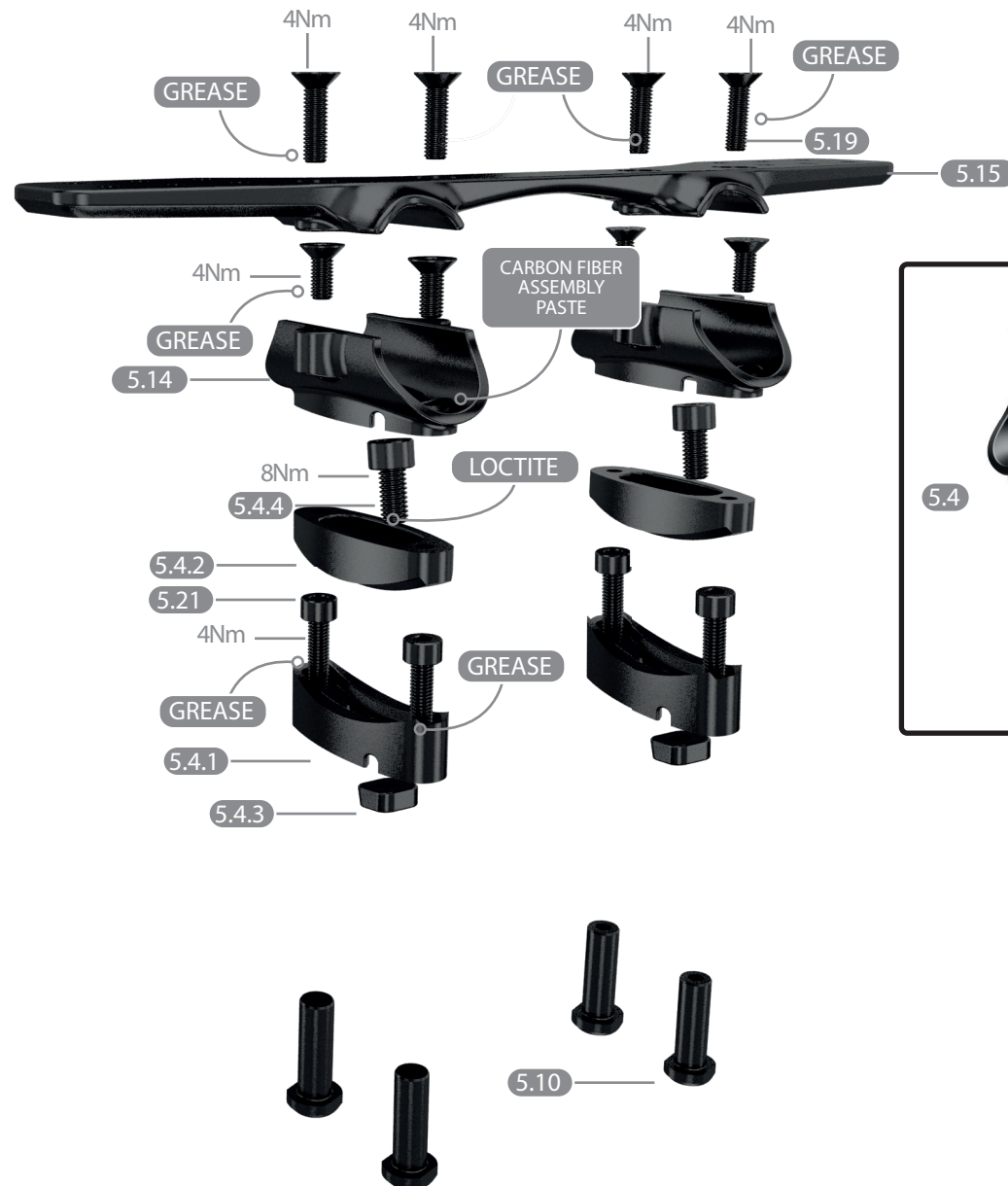
- 1- Connector base (5.14)
- 2- Swivel spacer (5.4.1 + 5.4.2)
- 3- Swivel screw (5.4.4)
- 4- Swivel square nut (5.4.3)

Assemble the unit and leave it unscrewed, just enough to allow adjustment and to turn the swivel 90 degrees in order to have access to the sleeve nuts (5.10 - 5.13) and fix the socket head screw at 4Nm.

Tighten swivel screw (5.4.4) to 8Nm.

Note:

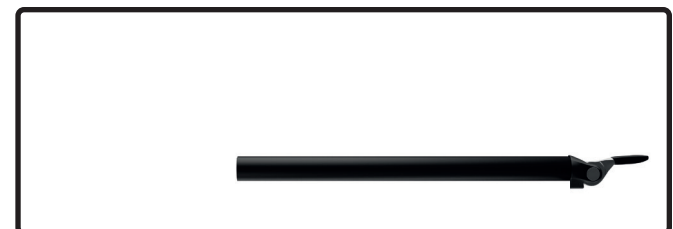
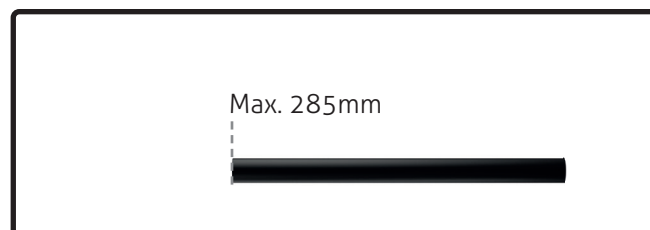
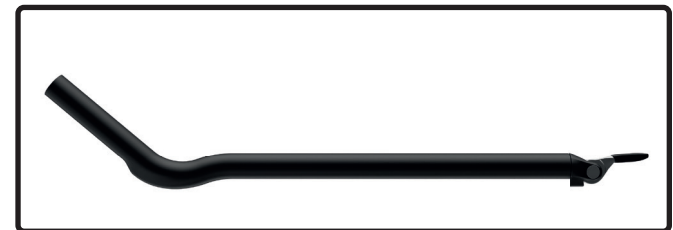
The connector base must be fixed to the top of the swivel assembly, not on the sleeve nuts.

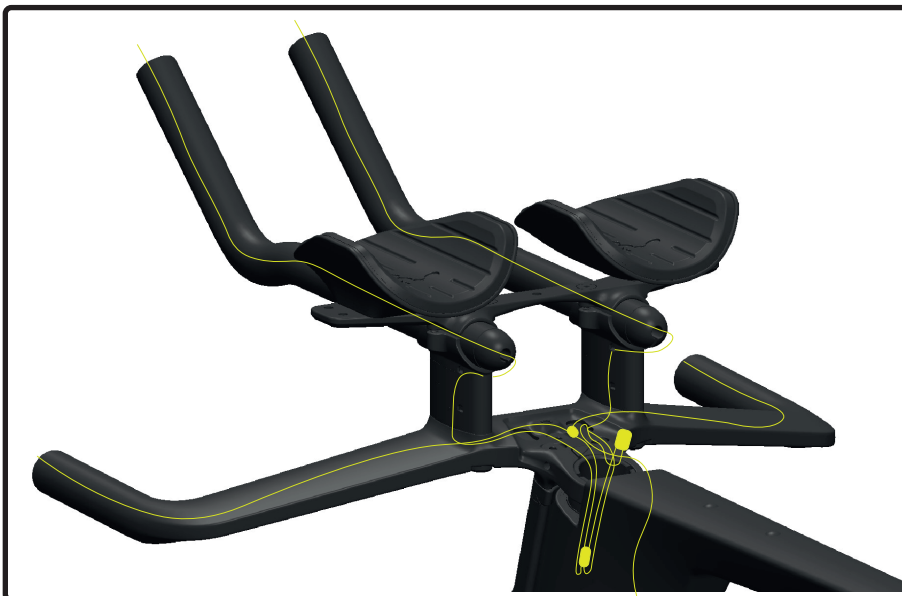




Cut the extension bars (5.1) at the desired length to obtain a straight post*. The bars must not exceed 285mm in length. **The cut must be made on the elbow side.** The other end of the bar is used exclusively to install the shifter. Apply some carbon fiber assembly gel in the clamping area.

***If using a ski bend section, no more than 40mm can be cut out.**

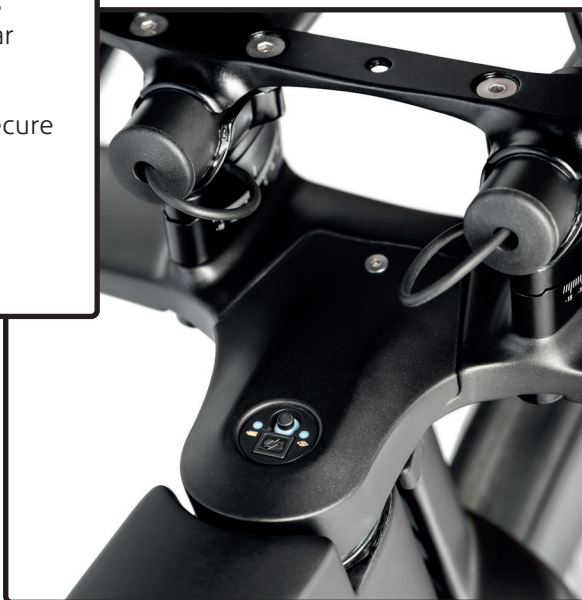




Make sure the Di2 cables come out from the end of the extension bar, and then insert them through the notches at the center of the spacers. Make sure the Di2 cable goes through the bottom notch. Drop the cable in the handlebar using the hole between the two sleeve nuts.

For Di2 configuration, use the Console Ring Di2 (4.3) to secure the junction box A into the Handlebar Cover (4.1).

For wireless configuration, use the Cover Cap Plug (4.4).





Armrests and Armpads

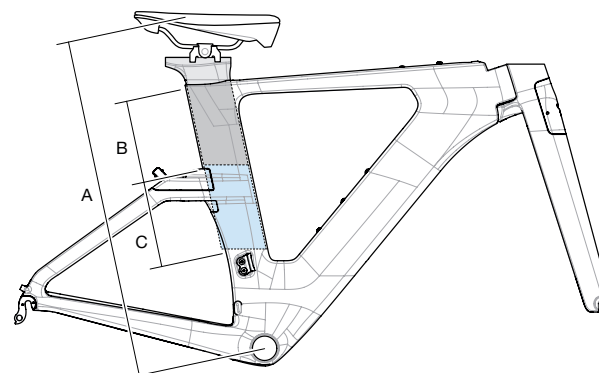
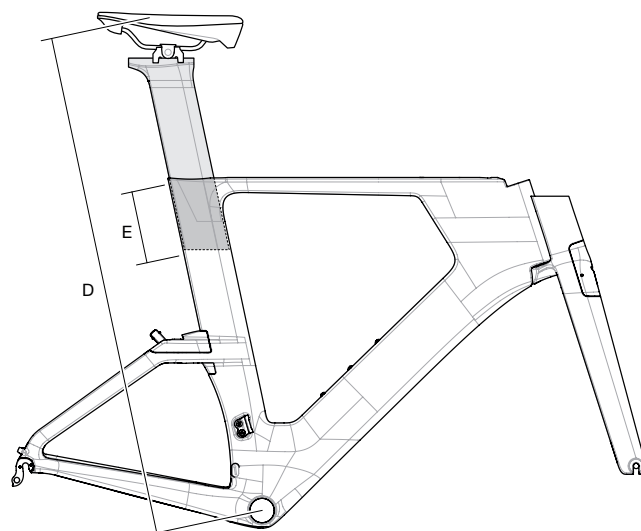
1. Use two screws (5.18) to fix each Armrest (5.2) onto the Extension Connector Base (5.14).
2. Install the Armpads (5.3) by pressing them onto the Armrests. The pre-applied hook-and-loop fastener will secure the Armpads in place.



For horizontal adjustment:

1. Loosen 5mm bolts.
2. Unscrew main bolt.
3. Install saddle rails into the rocker in the middle position.
4. Find desired setback.
5. Tighten the 5mm bolt up at 6Nm.
6. Adjust seat horizontally.
7. Tighten the 6mm bolt up at 12Nm.

If you are unable to find the desired setback, push the saddle up to the distance recommended by the manufacturer.



NOTE: THE ABOVE IMAGE IS FOR VISUAL REFERENCE OF SEATPOST INSERTION ONLY

Refer to the supplied tables for details on Saddle Height and SeatPost insertion limits.

- i. The correct frame size must be determined according to the saddle height limits.

A. Minimum Saddle Height

D. Maximum Saddle Height

- ii. Depending on the size of the frame and the desired saddle height, the SeatPost might need to be cut.

B. Maximal insertion depth in the Frame's SeatTube.

C. Required SeatPost cut length to be able to adjust the Saddle Height at the Minimum position.

- Adjust the SeatPost cut length in accordance with your desired Saddle Height.

Required minimum SeatPost Cut length = C - ("desired Saddle Height" - A)

- Example: - For a desired Saddle Height of 600mm on a XS-E 118 Tri+ Disc Frame

- The required minimum SeatPost Cut length is: 105 - (600-586) = 91mm

E. Minimal insertion depth in the Frame's SeatTube.

Saddle Height Limits			E-118 TRI+ DISC		
Size	Saddle H Min	ST Max Insert	SP Cut	Saddle H Max	SP Min Insert
	mm	mm	mm	mm	mm
	A	B	C	D	E
X-Small	586	170	105	781	80
Small	625	210	65	820	80
Medium	641	225	50	836	80
Large	671	255	20	866	80

