

E-117 TRI: Table of Contents

My E-117 Tri
Date of purchase:
Retailler:
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 calibered 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)
- 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

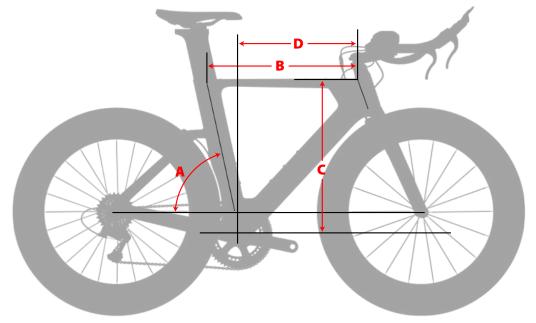
IN CASE OF EMERGENCY...THIS MIGHT SAVE YOUR RIDE!

- 1: Spare rear dropout (SKU: 38883)
- 2: Spare brake pads corresponding to your wheel model (carbon or alloy)
- 3: Seat clamp (SKU: 80423, 80422)

IMPORTANT: the E-117 Tri's seat clamp (1.4) is not the same as the Nitrogen

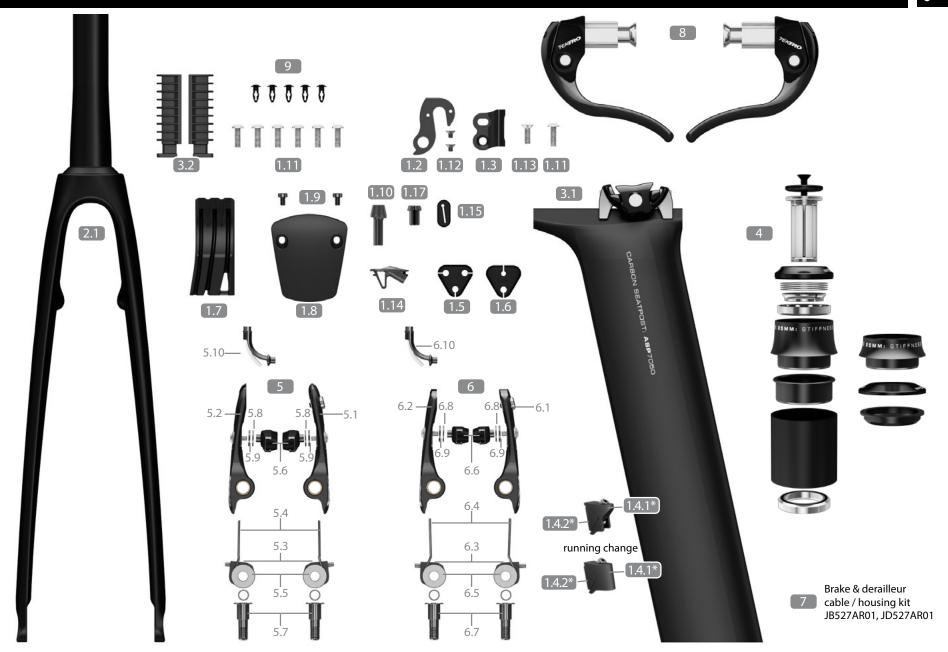




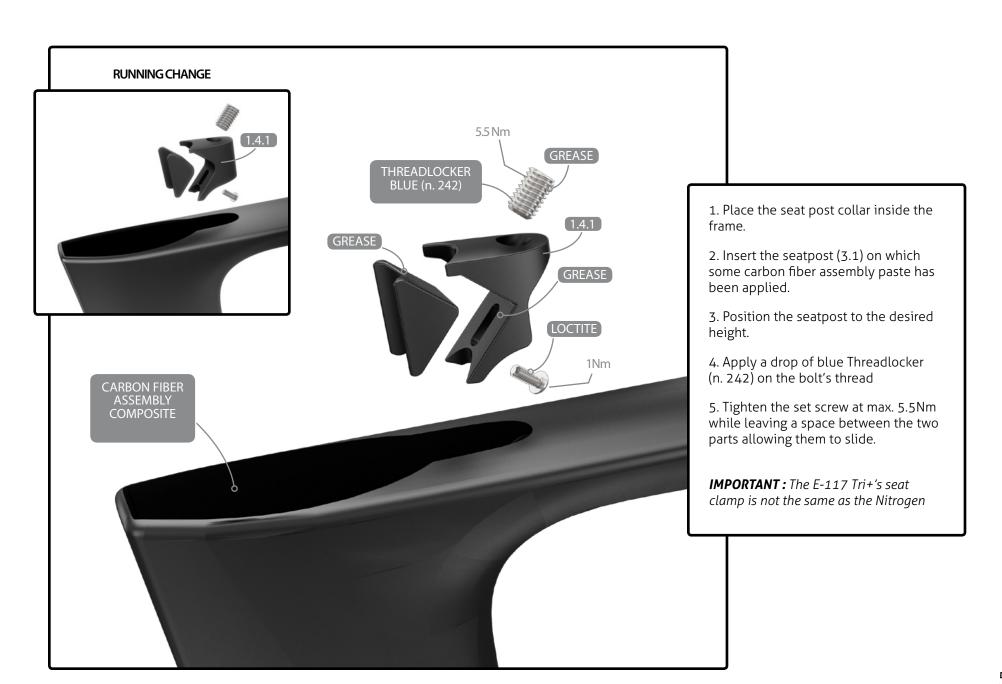


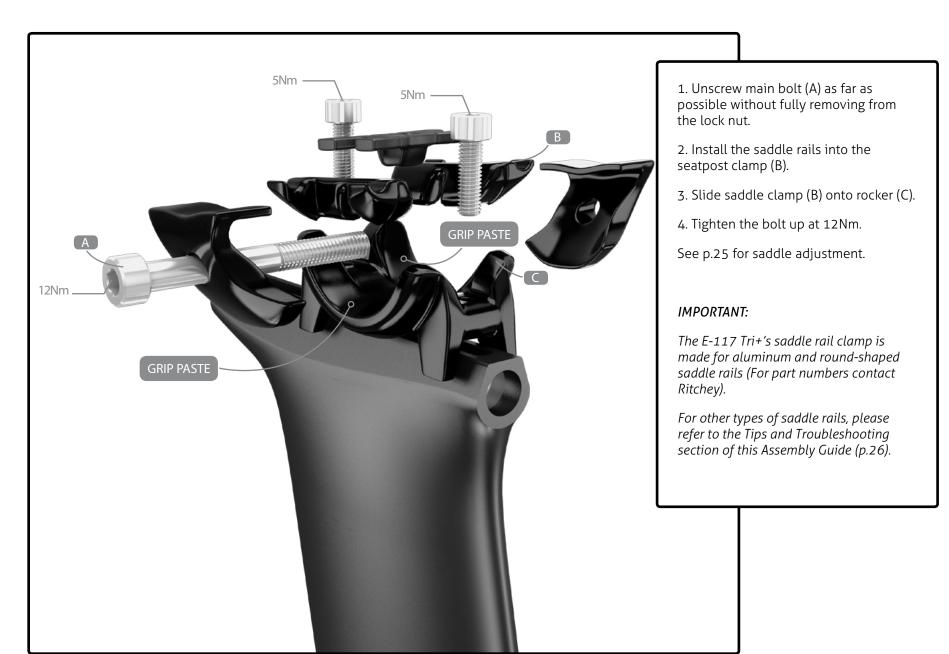
Sizing Chart: E-117 TRI

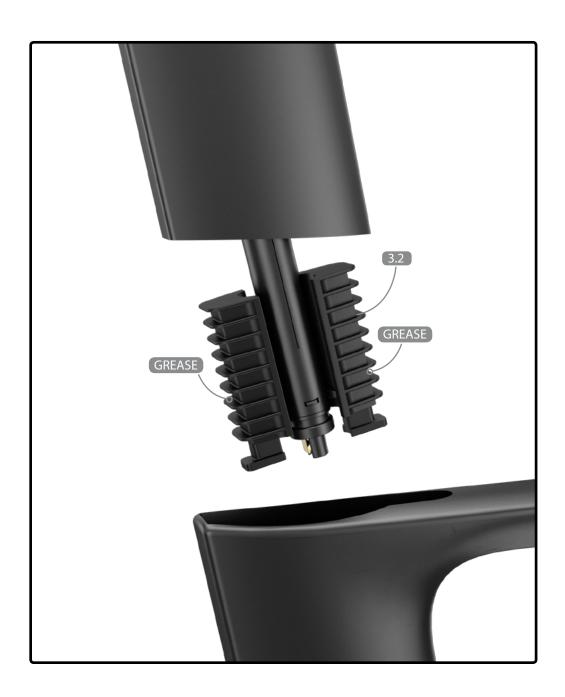
		A	В		C			D	
Saddle	Suggested	Seat Tube	Top Tube	3D (0)	3D (15)	3D (25)	3D (0)	3D (15)	3D (25)
Height	Size	Angle		Stack	Stack	Stack	Reach	Reach	Reach
63	XS	78	48.9	491	505	514	385	380	377
64	XS	78	48.9	491	505	514	385	380	377
65	XS	78	48.9	491	505	514	385	380	377
66	XS	78	48.9	491	505	514	385	380	377
67	XS	78	48.9	491	505	514	385	380	377
68	XS	78	48.9	491	505	514	385	380	377
69	XS/S	78	48.9 / 50.1	491 / 501	505 / 515	514/525	385 / 395	380/390	377 / 387
70	XS/S	78	48.9 / 50.1	491 / 501	505 / 515	514/525	385 / 395	380/390	377 / 387
71	S	78	50.1	501	515	525	395	390	387
72	S	78	50.1	501	515	525	395	390	387
73	S	78	50.1	501	515	525	395	390	387
74	S/M	78	50.1 / 51.4	501 / 516	515 / 530	525 / 540	395 / 405	390 / 400	387 / 397
75	M	78	51.4	516	530	540	405	400	397
76	M	78	51.4	516	530	540	405	400	397
77	M	78	51.4	516	530	540	405	400	397
78	M	78	51.4	516	530	540	405	400	397
79	M/L	78	51.4 / 52.5	516 / 543	530 / 557	540 / 567	405 / 409	400 / 404	397 / 401
80	L	78	52.5	543	557	567	409	404	401
81	L	78	52.5	543	557	567	409	404	401
82	L	78	52.5	543	557	567	409	404	401
83	L	78	52.5	543	557	567	409	404	401
84	L	78	52.5	543	557	567	409	404	401
85	L	78	52.5	543	557	567	409	404	401
86	L	78	52.5	543	557	567	409	404	401



Images are for reference only. Proportions are not accurate. Argon 18 reserves the right to modify/change parts of the frameset at any moment without prior notice. *For more info please consult notice on Seatpost clamp dated 2016-06-09







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.

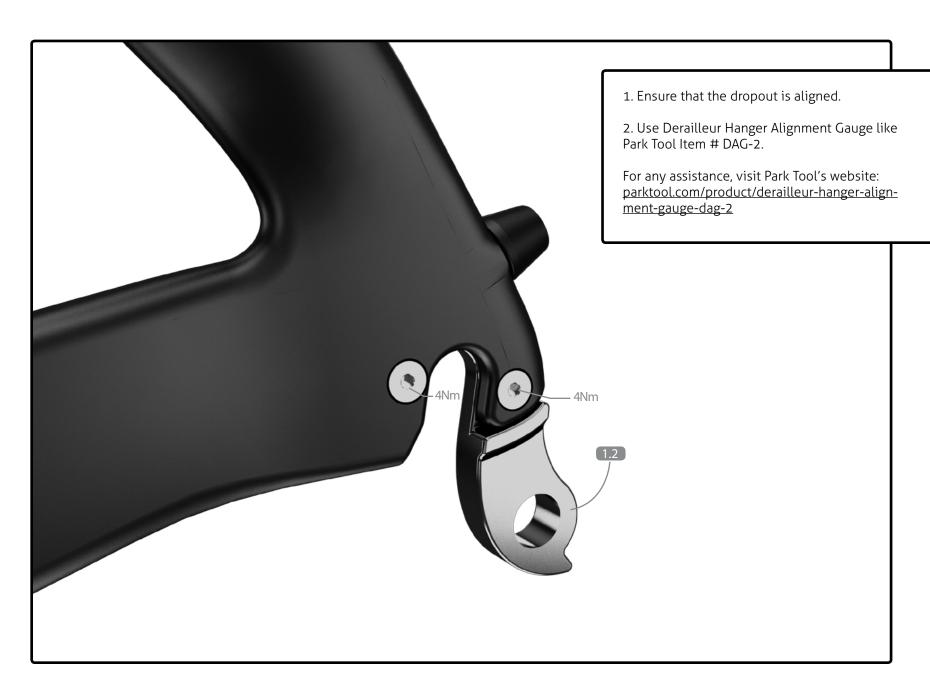
BEFORE ASSEMBLING YOUR NEW E-117 TRI, MAKE SURE THAT YOU HAVE ALL THE FOLLOWING:

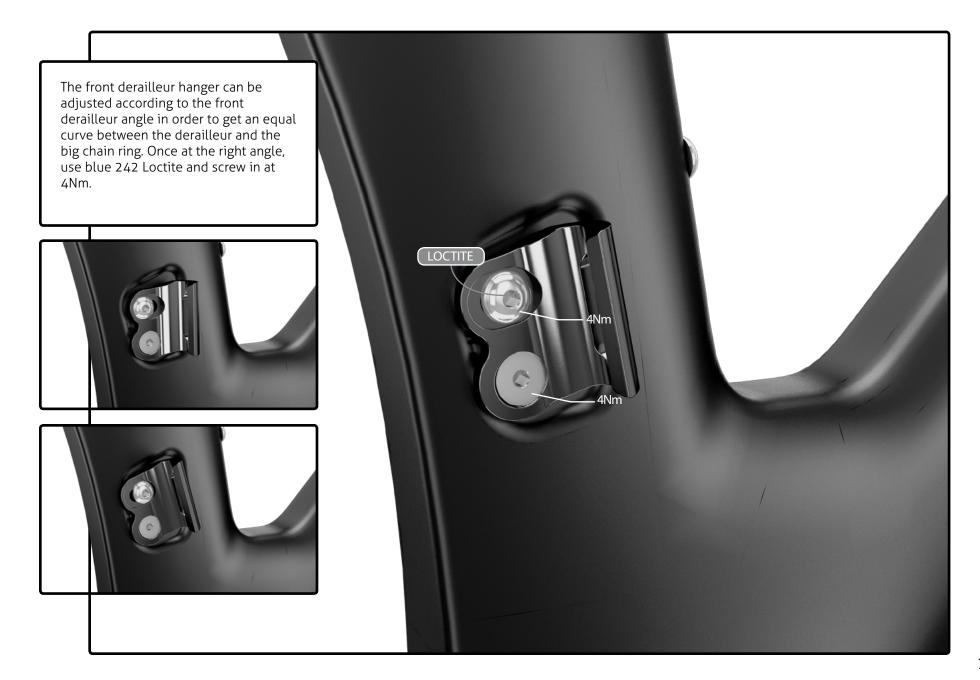
- 1. Brakes and gears cables and housing set
- 2: Frameset parts checklist (see p.27)
- 3: Inspect the frame for cosmetic aspect (scratches, bumps, cracks, paint defect, etc.)
- 4: For reference, check serial number and write it on p.1
- 5: All the necessary bolts (refer to Frameset Parts, p.4)
- 6: For optimal shifting performance, use a dropout alignment gauge to make sure that the drive-side dropout is straight.

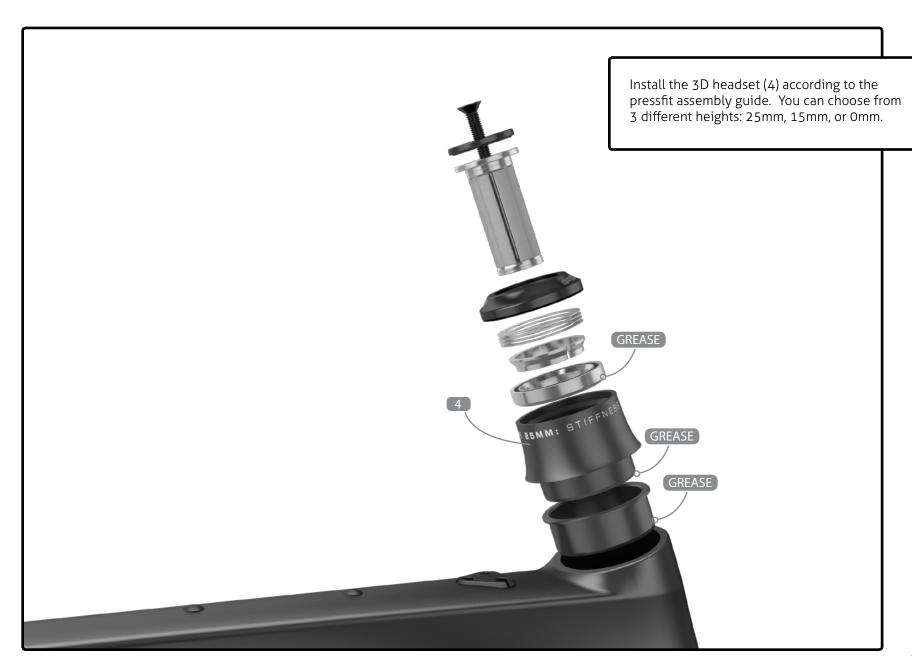
IMPORTANT:

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
1	Front derailleur hanger	Screw (2)	5mm	4Nm	Loctite
2	Rear derailleur hanger	Screw (2)	3mm	4Nm	Loctite
3	Bottle cage	Screw (7)	4mm	3Nm	Grease
4	Bottom bracket cover	Screw (2)	4mm	2.5Nm	Grease









First, you must assess which setup suits your needs: 25mm, 15mm or 0mm.



Inspect the bike's head tube for any sharp edges and apply a small amount of grease.



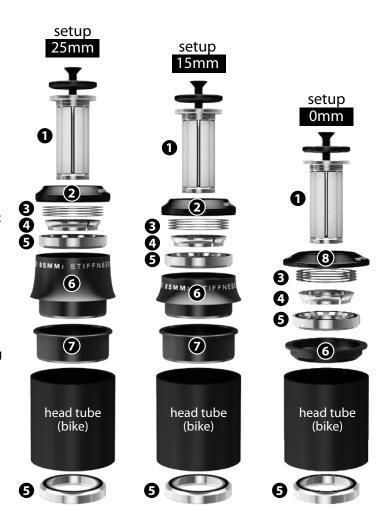
For the 25mm and 15mm setups, lightly grease the bottom section of the 3D bearing holder (6) and insert the plastic sleeve (7).

Position the headset inside the head tube. Place the top 3D assembly with the headset bearing inside (this will prevent the sleeve from getting damaged). Add the compression ring (4) on top of the bearing, then add the press fit 3D system tool and softly press down the assembly until it bottoms out using a Bearing Cup Press (Park Tool HHP-2). Then, insert the bottom bearing (5), micro spacers (3) and top cap (2), slide the fork and stem and measure the steerer length needed.

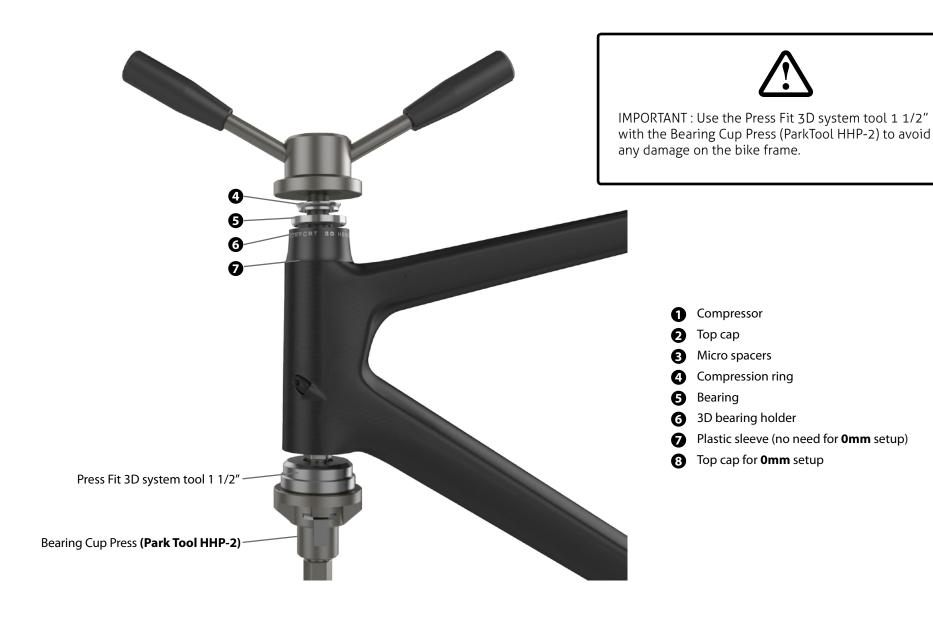
For the **0mm setup**, do not use the plastic sleeve. Install the 3D bearing holder (6) with grease applied directly inside the frame.

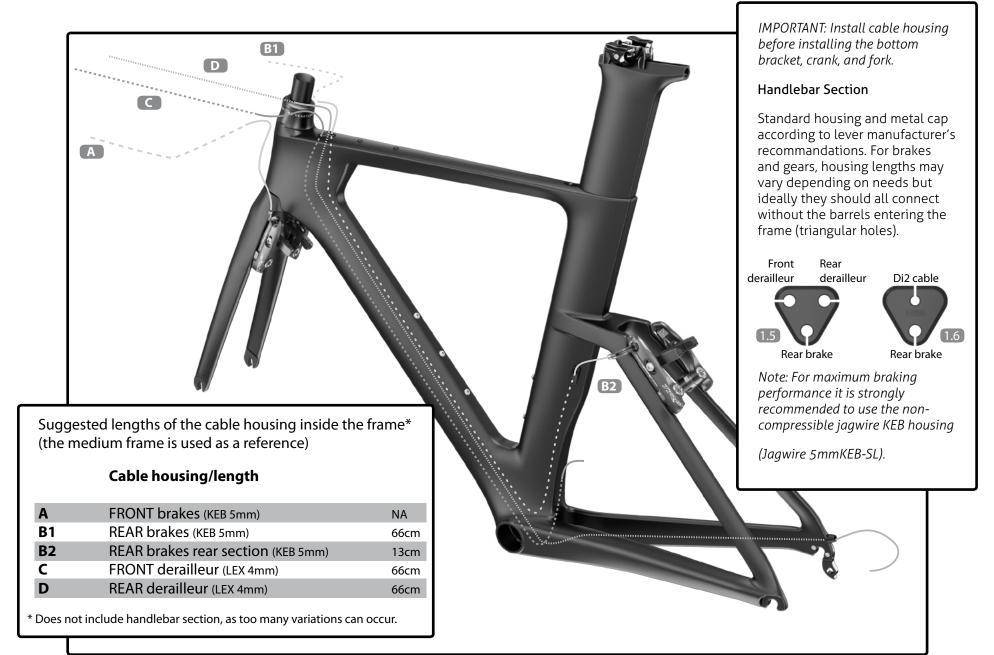


To remove the 3D bearing holder, insert the **Park Tool** RT-1 and then tap it carefully until the spacer comes out.



- Compressor
- Top cap
- Micro spacers
- Compression ring
- Bearing
- 3D bearing holder
- Plastic sleeve (no need for **0mm** setup)
- Top cap for **0mm** setup







Bottom Bracket Section

- 1. Measure approximately 660mm length (for a medium-sized frame) of one unit of KEB brake housing (non compression housing) and two units of LEX 4mm gear housing (mechanical).
- 2. Install plastic caps at each tip of the gears' housings.
- 3. Install classic metal cap on the bottom bracket guide's section of the brake's housing and the supplied POP metal cap on the front tip of the brake's housing in order to connect with the barrel.
- 4. Remove the cable guide (1.7) under the bottom bracket.
- 5. Connect the 3 housing length to the bottom bracket's guide according to inscriptions (RD: Rear Derailleur, FD: Front Derailleur, RB: Rear Brake).

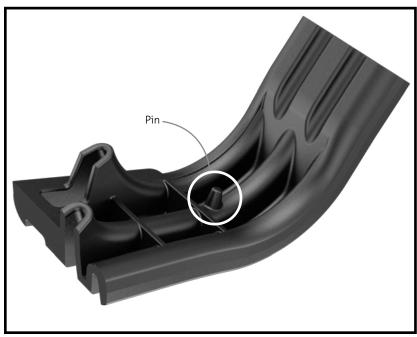


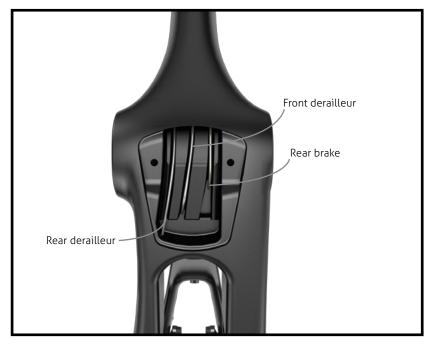


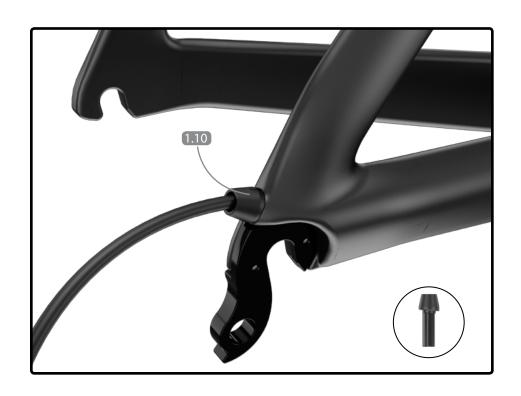


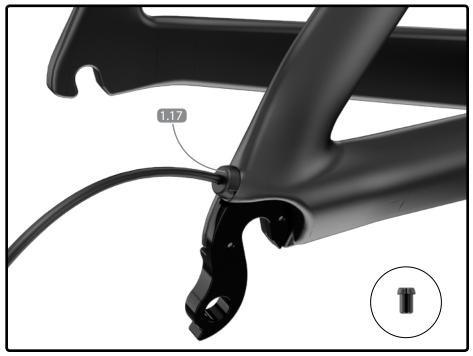
- 6. Pass the cable housings inside the downtube until they come out the top tube.
- 7. Be sure that the guide's pin is inside the frame's hole.
- 8. With a hook take the housings out of the frame by the top tube's triangular hole.
- 9. Install 4mm barrel on gear housing.
- 10. Install 5mm barrel on KEB break housing with POP metal cap.

IMPORTANT: There is a preinstalled tube guide inside the drive-side chainstay. Insert the gear cable in the tube guide down to the rear derailleur.





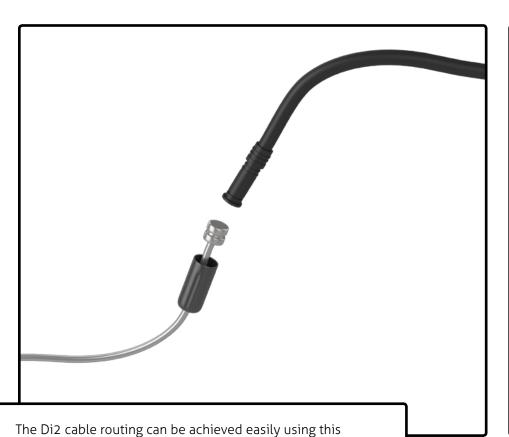




IMPORTANT:

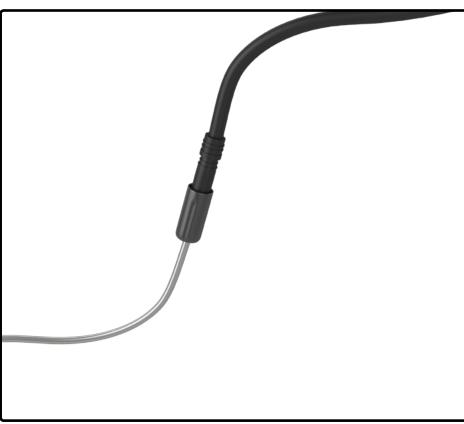
For the Di2 cable section that runs through the drive side chainstay, use the preinstalled tube guide that is supplied with the frame.

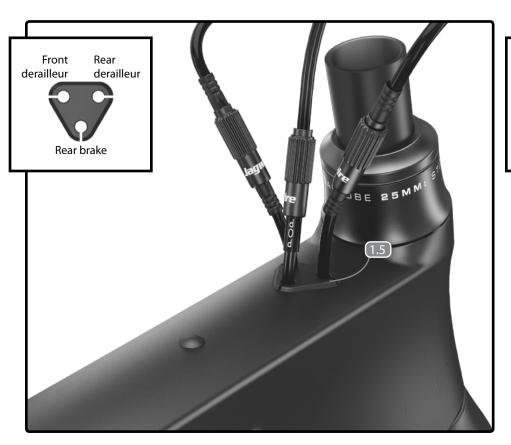
Use the proper cable stopper or grommet to fix the rear derailler cable correctly depending if you use mechanical drive-train (1.10) or electronic shifting (1.17).



simple trick: use a gear cable and a metal cable end to fix the Di2 cable. For more information on Shimano Di2 electronic

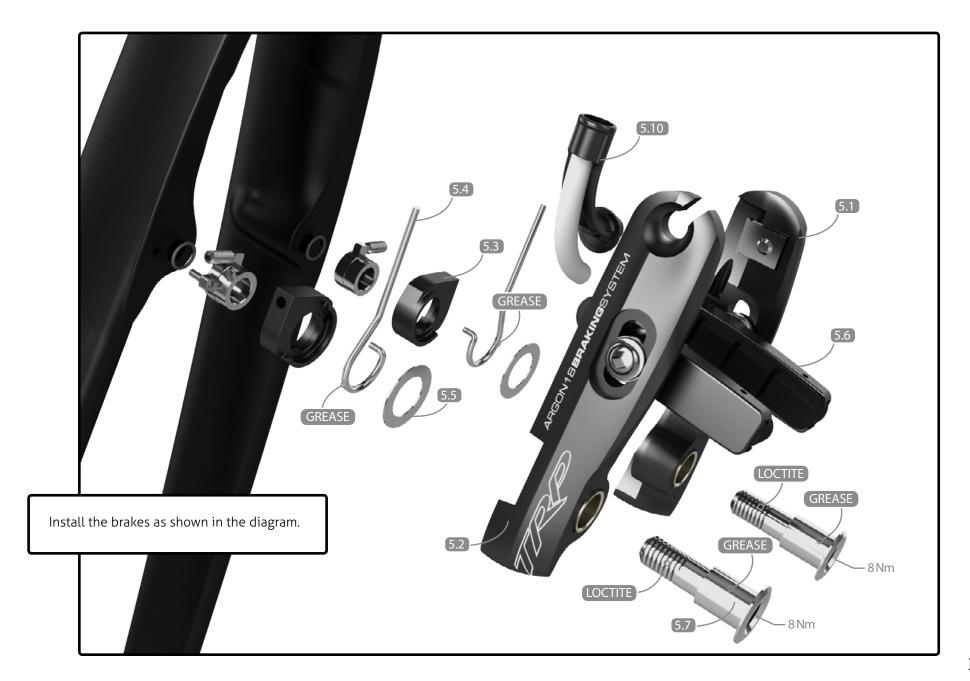
system installation, go to: si.shimano.com.

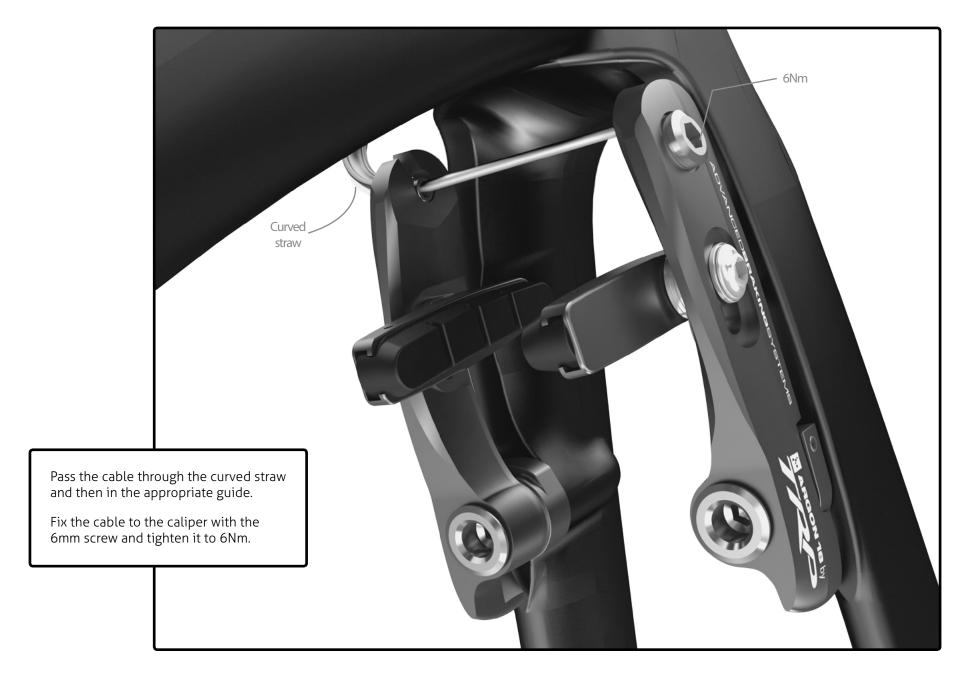


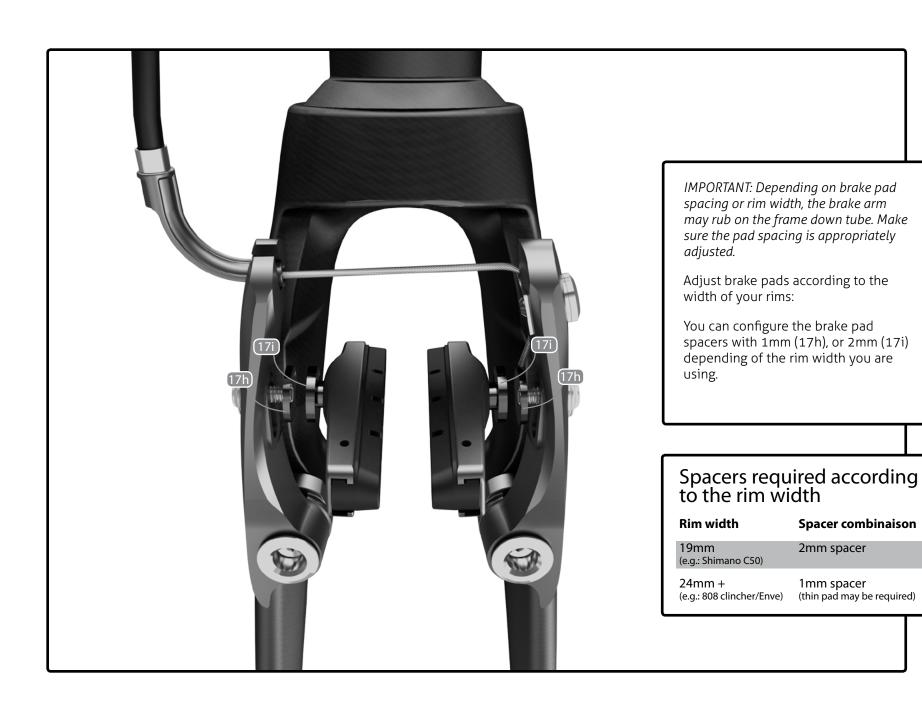


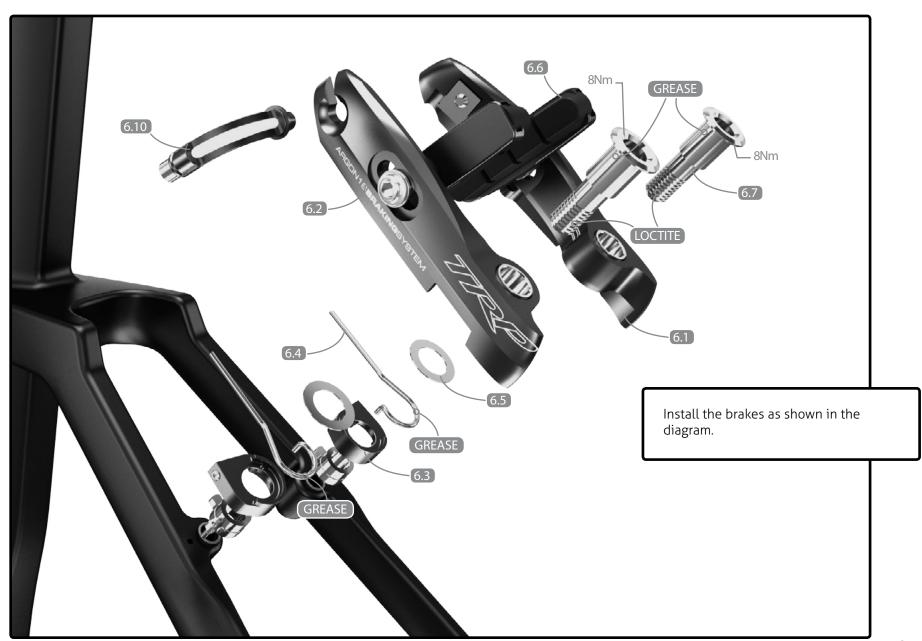


Use the proper grommet on the top tube to fix the cable correctly, depending if you use mechanical drive-train (1.5) or electronic shifting (1.6).



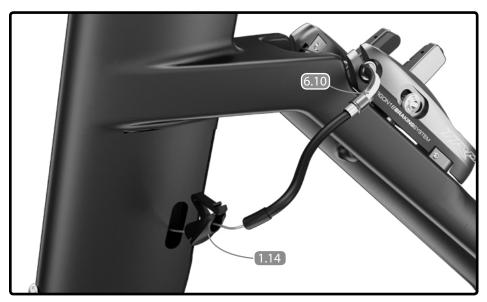


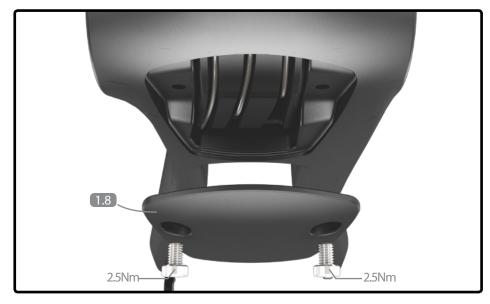


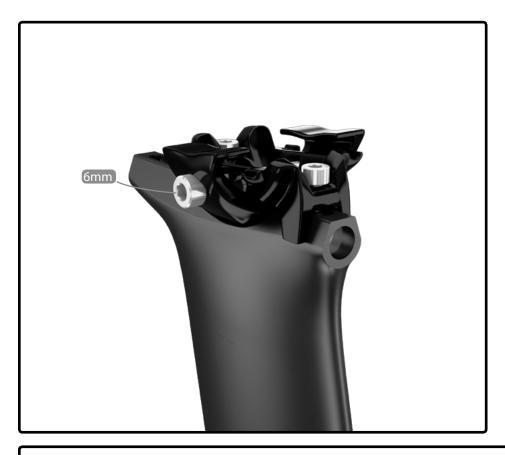


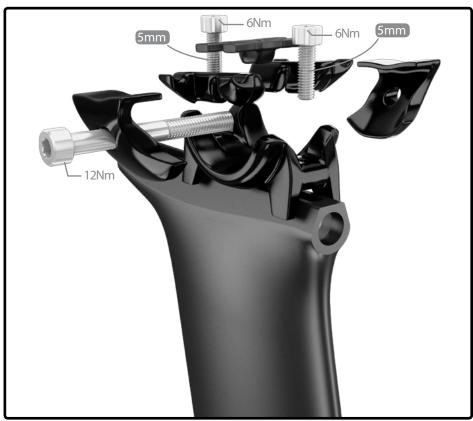


- 1. Take the cable stopper out of the seat tube.
- 2. From the bottom bracket guide, route the cable up and out of the outlet.
- 3. Put the cable stopper back on and insert housing (suggested length 130mm for medium-sized frame) with a metal cap. Slide it in the cable guide (6.10).
- 4. Slide the break cable in the brake's retainer nut and fix it to the caliper at 6Nm.
- 5. Install plastic cap (1.8) over the bottom bracket, tighten the 2 screws at 2.5Nm.









For horiziontal adjustement:

- 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.

1. Wheel/brake compatibility:

If the brake pads do not clear the rim, remove the spacers (1mm or 2mm). see p.21-22

2: Front brake arm touching the downtube:

Inadequate spacing behind brake pads causing a wide angle. Changing the spacers behind the brake pads will straighten the brake arms. see p.21-22

3: 3D pressfit headset rubing:

Because some parts have a tight tolerance it might be necessary to put a slight amount of grease under the top cap.

4. Saddle rails:

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



If lack of brake power on the E-119, E-117 Tri and Tri+, Nitrogen and Nitrogen Pro, this might be caused by the failure to have likely used KEB housing. ALWAYS use brake pad compound compatible with wheel model suggested by the wheel manufacturer.

Compatibilities of standard tires with our bikes: 700x 25C – Any tire/rim combination compatible.

Please contact custumer service for any further inquiries.

E-117 TRI: 15. Frameset Parts Checklist

ARGON 18 🧎

No.	Name	No de SKU A18	Qty
#	Frameset Parts		
1.1	E-117 MY2016 Frame		1
2.1	E-117 MY2016 Fork	FK.E117T.235A	1
3.1	ASP-7050 Aero Seatpost Assembly	SP.E117T.235A	1
#	Parts Installed on the Frame		
1.2	Rear Derailleur Hanger	38883	1
1.3	Front Derailleur Hanger	38882	1
1.4.1	Seat collar base with screw M8x12mm	80373, 80423	1
1.4.2	Seat collar wedge with screw M3x8mmB	80372, 80422	1
1.7	Bottom Bracket Cable Guide	80158, 80492	1
1.8	Bottom Bracket Cover	80159	1
1.9	Bottom Bracket Cover Screws M4x6mm	Included with 80159	2
1.11	Front Derailleur Hanger / Bottle Cage Screws M5x16mm	Included with 38882	7
1.12	Rear Derailleur Hanger Screw M3x8mm	Included with 38883	2
1.13	Front Derailleur Hanger Screw M5x16mm	Included with 38882	1
1.14	Plastic Cable Stopper	38879	1
1.15	Front Derailleur Cable Grommet	80164	1

E-117 TRI: 15. Frameset Parts Checklist

ARGON 18 🏃

No.	Name	No de SKU A18	Qty	
#	Mechanical / Di2 Configuration Parts			
1.5	Top Tube Grommet for Mechanical Drivetrain	36656	1	
1.6	Top Tube Grommet for Electronic Drivetrain	36670	1	
1.10	Rear Derailleur Cable Stopper for Mechanical Drivetrain	80160	1	
1.17	Rear Derailleur Grommet for Electronic Drivetrain	80165	1	
3.2	Di2 battery holder	80167	2	
#	Also Included with Frameset			
4	Headset 3D Headtube No37E	80096	1	
5	Tektro Rear Brake Assembly TKB138-1	80016	1	
5.1	Brake bolt (TKB 137/138/138-1)	80169	1	
5.10	Brake noodle for TKB 137/138-1	80424	1	
6	Tektro Front Brake Assembly TKB137	38719	1	
7	Jagwire housing kit	39014	1	
8	Tektro Brake Levers TL-720	36580	2	
9	Plastic Plug for Water Bottle Eyelet	80264	7	

Note: Argon 18 triathlon accessories (nutrition, hydration, and survivability) are compatible with the E-117 Tri.