

**ARGON 18**



VALID FOR MY2021 REVISION 4 - 26.11.2020

**SUBITO**

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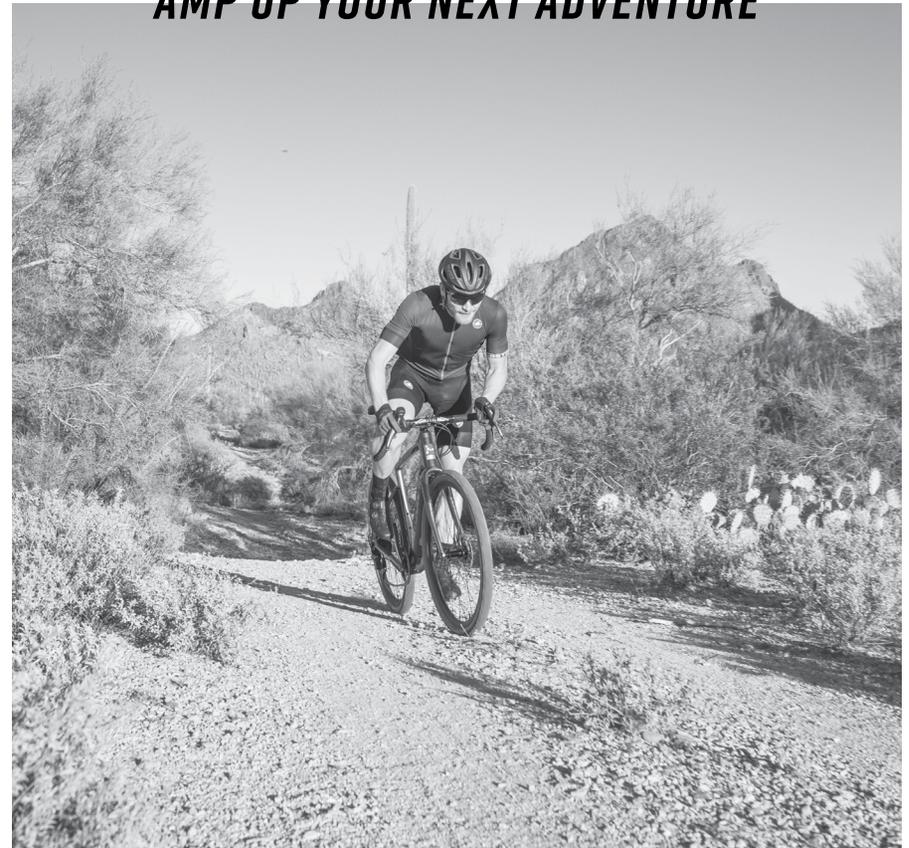
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*To maintain the validity of the warranty, the bicycle must be fully assembled by an authorized Argon 18 dealer. High-end components, particularly carbon parts, require extra care during assembly.*

*These components must be installed using a torque wrench to ensure each bolt is at the specified torque setting to prevent damage.*

## AMP UP YOUR NEXT ADVENTURE



### MY SUBITO

Date of Purchase: \_\_\_\_\_

Retailer: \_\_\_\_\_

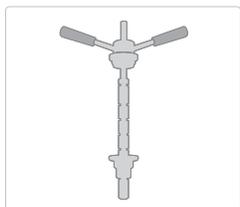
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Serial Number: \_\_\_\_\_

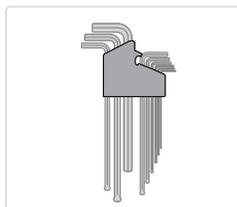
Hub Serial Number: \_\_\_\_\_

# I. TOOLS NEEDED & FIRST AID KIT

1. Bearing Cup Press



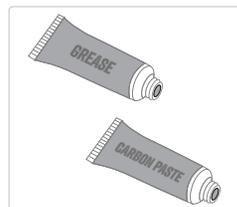
2. Allen Key Set



3. Torx T25 Key



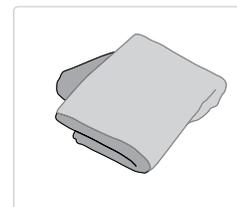
4. Carbon Paste & Grease



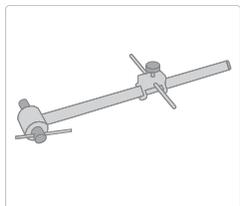
5. Utility Picks



6. Clean Rag



7. Derailleur Hanger Alignment Gauge



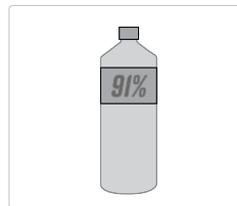
8. Cables and Housing Cutter



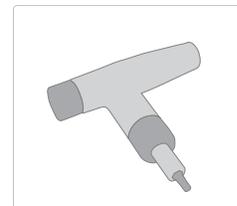
9. Thread Locker Medium strength



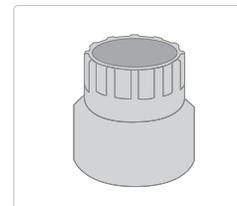
10. Isopropyl Alcohol



11. Torque Wrench



12. Cassette Lockring



## IMPORTANT:

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

1. Seat Post Clamp



2. Spare Rear Derailleur Hanger



## 2. FRAMESET INSPECTION

Before assembling your new Subito, please verify that you have all the following:

1. Frameset parts checklist (see p.7-9)
2. MAHLE ebikemotion® parts checklist (see p.10-13)
3. Inspect the frame for cosmetic defects (scratches, bumps, cracks, paint defects, etc.)
4. For reference, record serial number on p.3
5. All the necessary bolts (refer to frameset parts, p.7-9)
6. For optimal shifting performance, use a derailleur alignment gauge to make sure that the derailleur hanger is straight



### IMPORTANT:

Some of the following parts are already assembled on the frame. When assembling the bike, you will need to adjust these parts according to their torque specifications and fastener conditions when necessary.

NO.	AIB SKU#	FUNCTION	DESCRIPTION	SCREW TYPE	TORQUE	THREAD CONDITION	QTY
1	80806*	Chain Catcher Screw	M5 x 25mm Screw	Socket Head	3Nm	Nylock	1
2	80248	FD Hanger Screw	M5 x 16mm Screw	Flat Head	3Nm	Grease	2
3	80249	Water Bottle Screw	M5 x 14mm Screw	Button Head	3Nm	Grease	4
4	81250	Battery Screw	M5 x 10mm Screw	Button Head	5Nm	Dry	3
5	81251	BB Cover Screw	M4 x 10mm Screw	Button Head	Hand Tight	Dry	2
6	81087	Headset Cap Screw	M4 x 12mm Screw	Flat Head	0.5-1.0Nm	Dry	1
7	81252	Charger Connector Screw	M3 x 10mm Screw	Flat Head	Hand Tight	Dry	2
8	81252	Side Guide Screw	M3 x 10mm Screw	Flat Head	Hand Tight	Dry	1
9	81252	Cable Clip Screw	M3 x 10mm Screw	Flat Head	Hand Tight	Dry	1
10	81253	RD Hanger Screw	M3 x 8mm Screw	Flat Head	2Nm	Dry	2
11	81254	PAS Sensor Screw	M4 x 5mm Screw	Set Screw	Hand Tight	Dry	1
12	81255	Rear Disc Screw	M5 x 8mm Torx Screw	Button Head	4Nm	Thread-Locker	6
13	80801*	Seat Post Collar Screw	M5 x 22mm Screw	Socket Head	4Nm	Grease	1
14	SP.KRYCS.273B*	Seat Post Rear Screw	M6 x 28mm Screw	-	9.5Nm	Grease	1
15	81052	Front Thru Axle	M12 x 1.5 Axle	-	12Nm	Grease	1
16	81228	Motor Lock Nut	M12 x 1.5 Nut	Rear Wheel Nut	35Nm	Grease	2
17	81227	Magnet Lock Nut	-	Casette Lockring	40Nm	Grease	1
*	Included						

### 3. TROUBLESHOOTING / TIPS / SPECIFICATIONS

#### Brakes

Use only flat mount disc brakes. The frame is compatible with 160/180mm disc rotors. The rear caliper installation does not require an adapter for 160mm discs. Refer to 140mm disc rotor brake manufacturer's instructions. Rear mount thickness: 30mm.

The fork is compatible with 140/160mm disc rotors. An adapter might be required for front caliper installation. Consult brake manufacturer's instructions.

#### Tire Clearance

- 700c** The largest tires that can be installed must be no wider than 40mm for the front and rear wheels. If fenders are installed, the tires must be no wider than 35mm.
- 650c** The largest tires that can be installed must be no wider than 45mm for the front and rear wheels. If fenders are installed, the tires must be no wider than 40mm.

#### Seat Post

Ø 27.2mm

The saddle clamp is compatible with saddle rail up to 9 x 7mm.

#### Seat Post Collar

Ø 31.8mm

#### Bottom Bracket

BB86 (Press-fit)

#### Headset

Argon18 exclusive, FSA No 30 + 3D Press-fit  
(Bearing 1 1/8", 36° x 45° top and 1 1/2", 36° x 45° Bottom  
+ FSA TH-881-1 Compressor included)



#### IMPORTANT:

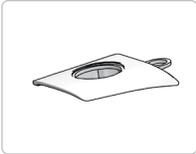
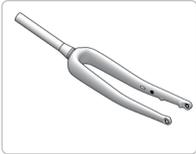
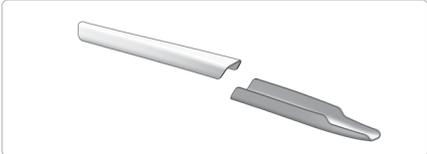
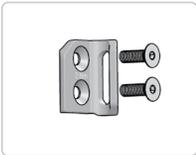
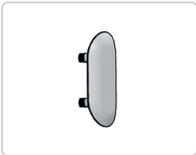
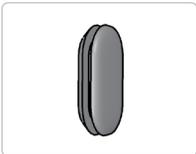
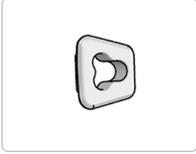
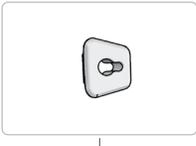
No more than 30mm of spacers can be placed between the stem and the top cap of the 3D system. The use of more than 5mm of spacers on top of the stem could affect the efficiency of the compressor. These practices will automatically void any warranty claim against the manufacturer.



#### IMPORTANT:

The Ebikemotion system is shipped to retailers in Demo mode. When the bike is sold, it must be taken out of Demo mode. Please see related documentation on our B2B portal. Demo mode will allow for a maximum of 50km of riding, after which the motor will stop working.

## 4.1 FRAMESET SKUS AND DESCRIPTIONS

							
81236	FK.SUBR.M-XL.314A FK.SUBR.XXS-S.314A FK.SUBG.M-XL.314B FK.SUBG.XXS-S.314B	38446	80811	80771	81252	80801	81255
							
81235 & 81253 (screws)	81234	80806	81256	81087	81244 & 81252 (screw)	81254	81054
							
81045	SP.KRYCS.273B			80249	81250	81242	
							
81238 & 81248 (screws)	81240	81258	81260	80826	80804	81239 & 81252 (screw)	80805
							
80988	81243	80808	81241 & 81251 (screws)	81245	81246	81052	
							
				81247	80264	80551	80985

## 4.2 FRAMESET SKUS AND DESCRIPTIONS

NO.	NAME	AIB SKU#	QTY
1	Subito Frame	Not available as spare part.	1
2	Subito Fork (XSS/XS/S) -OR- Subito Fork (M/L/XL)	FK.SUBR.XXS-S.314A FK.SUBG.XXS-S.314B FK.SUBR.M-XL.314A FK.SUBG.M-XL.314B	1
3	Subito Seatpost (Same as Krypton CS)	SP.KRYCS.273B	1
4	Seatpost Collar 31.8mm	80801	1
5	Rear Derailleur Hanger	81235	1
6	FD Hanger Removable	81238	1
7	CS Wire Clip	81239	1
8	FD Plug	81240	1
9	BB Opening Cover	81241	1
10	FD Cable Stopper	81242	1
11	Button Cap Clip	81243	1
12	HT Side Guide	81244	1
13	Side Grommet 2X	81245	1
14	Side Grommet 1X	81246	1
15	Side Grommet Di2	81247	1
16	Chain Catcher (Incl. Small/Large, Washer and Screw)	80806	1
17	Plastic Plug M5	80264	9
18	Long Grommet Mechanical	80985	2
19	Long Plug Grommet	80804	3
20	Long Grommet Di2	80805	2
21	Rear Brake Oblong Cable Guide	80551	1
22	Oblong Plug	80826	1
23	Foam Liner	80811	3
24	Headset No.30 + 3D Assembly, with Compressor Th-881-1, Headset Assembly	80771	1
25	A18 Front Thru Axle M12 x 1.5 x 119	81052	1
26	A18 Thru Axle Lever	81054	1
27	Fender Bracket	80808	1
28	Battery Holder	38446	1

### 4.3 FRAMESET SKUS AND DESCRIPTIONS

<b>NO.</b>	<b>NAME</b>	<b>AIB SKU#</b>	<b>QTY</b>
29	FD Hanger Screw	81248	2
30	Water Bottle Screw	81249	4
31	Battery Screw	81250	3
32	BB Cover Screw	81251	2
33	Headset Cap Screw	81087	1
34	Charger Connector Screw, Side Guide Screw and Cable Clip Screw	81252	4
35	RD Hanger Screw	81253	2
36	PAS Sensor Screw	81254	1
37	Rear Disc Screw	81255	6
38	Subito Headset Cap 0mm	81256	1
39	Subito Headset Cap 15mm	81258	1
40	Subito Headset Cap 30mm	81260	1
41	Subito Road Top Tube Button Cap	81236	1
42	Dirt Guard Kit, Two Parts	80988	1
43	CS Protector (Same as Dark Matter, Refer to Subito Installation Instructions)	81045	1
44	Chainsuck Guard	81234	1

## 5.1. MAHLE EBIKEMOTION SKUS AND DESCRIPTIONS - NORTH AMERICA

### North American Version

81184 (314A) 700C  
81192 (314B) 650B

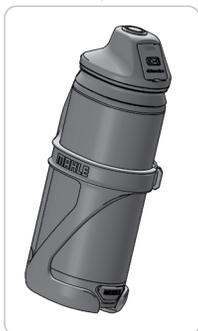


81183 (314A) 700C  
81185 (314B) 650B



### Available Separately

\*81223\*



\*81563\*



### North American Version 81217



81227

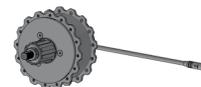


81218



81229

### North American Version



81225



81228



81230



81226



81232



81231



81219



81223



81220

## 5.2. MAHLE EBIKEMOTION SKUS AND DESCRIPTIONS – NORTH AMERICA

NO.	NAME	AIB SKU#	QTY
<b>PARTS INCLUDED IN THE FRAMESET</b>			
1	Rear Wheel Road – North America (for 314A) -OR- Rear Wheel Gravel – North America (for 314B)	81184 -OR- 81192	1
2	Front Wheel Road – North America (for 314A) -OR- Front Wheel Gravel – North America (for 314B)	81183 -OR- 81185	1
3	KIT X35 – C – One Flat – North America	81217	1
3.1	X35 B1-C Battery – 6.9A	81218	1
3.2	Drive Unit-M1-C – North America (*Already Included in the Rear Wheel)	81225	1
3.3	Torque Washer Nut	81229	2
3.4	Motor Lock Nut	81228	2
3.5	Shield M1	81230	1
3.6	Freewheel Nut	81226	1
3.7	One Remote	81231	1
3.8	Charging Point – ROUND CONN.	81220	1
3.9	PAS Sensor B – ROUND CONN.	81232	1
3.10	Magnet Lock Nut	81227	1
3.11	Charger-C (Without Wire)	81219	1
3.12	Charger Wire for North America	81223	1
<b>OPTIONAL PARTS THAT CAN BE ORDERED SEPARATELY</b>			
-	External Battery SP1 + Holder	81223	1
-	Light Wire – eBikeMotion X35	81563	1
-	PCAN USB Adaptor	81282	1
-	Diagnosis Wire	81283	1

## 6.1. MAHLE EBIKEMOTION SKUS AND DESCRIPTIONS - EU

### European Version

81187 (314A) 700C  
81189 (314B) 650B



81186(314A) 700C  
81188 (314B) 650B



### Available Separately

\*81223\*



\*81563\*



### European Version 81216



81227

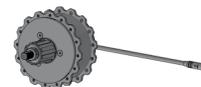


81218



81229

### European Version



81224



81228



81230



81226



81232



81231



81219



81221



81222

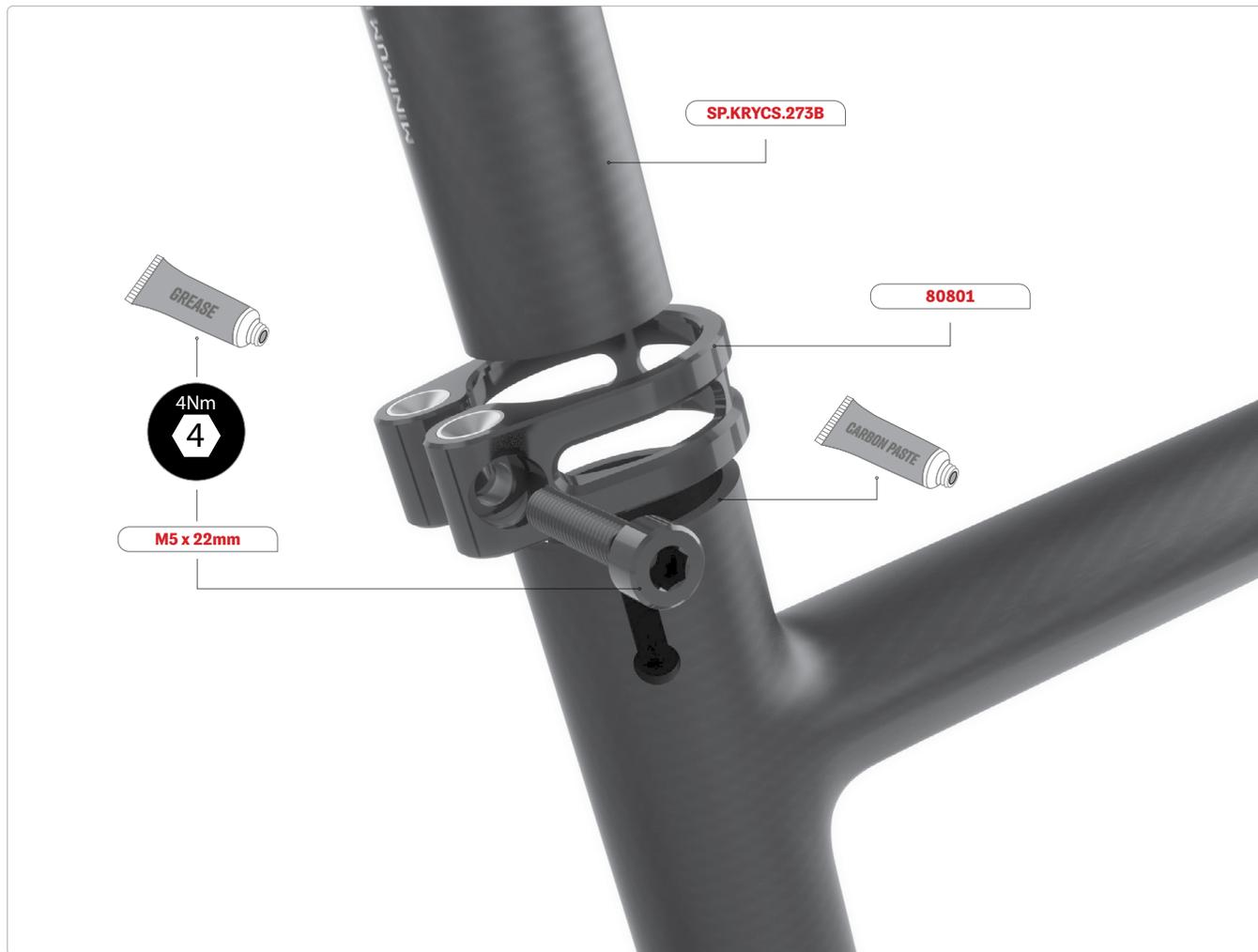


81220

## 6.2. MAHLE EBIKEMOTION PARTS AND DESCRIPTIONS – EU

NO.	NAME	A18 SKU#	QTY
<b>PARTS INCLUDED IN THE FRAMESET</b>			
1	Rear Wheel Road – EU (for 314A) -OR- Rear Wheel Gravel – EU (for 314B)	81187 -OR- 81189	1
2	Front Wheel Road – EU (for 314A) -OR- Front Wheel Gravel – EU (for 314B)	81186 -OR- 81188	1
3	KIT X35 – C – One Flat – EU	81216	1
3.1	X35 B1-C Battery - 6.9A	81218	1
3.2	Drive unit-M1-C – EU (*Already Included in the Rear Wheel)	81224	1
3.3	Torque Washer Nut	81229	2
3.4	Motor Lock Nut	81228	2
3.5	Shield M1	81230	1
3.6	Freewheel Nut	81226	1
3.7	One Remote	81231	1
3.8	Charging Point – ROUND CONN.	81220	1
3.9	PAS Sensor B – ROUND CONN.	81232	1
3.10	Magnet Lock Nut	81227	1
3.11	Charger-C (Without Wire)	81219	1
3.12	Charger Wire for Europe	81221	1
3.13	Charger Wire for United Kingdom	81222	1
<b>OPTIONAL PARTS THAT CAN BE ORDERED SEPARATELY</b>			
-	External Battery SP1 + Holder	81223	1
-	Ligth Wire – eBikeMotion X35	81563	1
-	PCAN USB Adaptor	81282	1
-	Diagnosis Wire	81283	1

## 7. SEAT POST COLLAR ASSEMBLY



1. Assemble the seat post collar (SKU: 80801) on the frame.
2. Apply grease on the thread of the M5 x 22mm bolt.
3. Apply carbon paste on the inside of the frame (seat tube).
4. Insert the seat post (SKU: SP.KRYCS.273B) to the desired height.
5. Tighten the M5 x 22mm bolt to 4Nm.



### **IMPORTANT:**

Refer to p.50 for seat post MIN and MAX insertion limits.

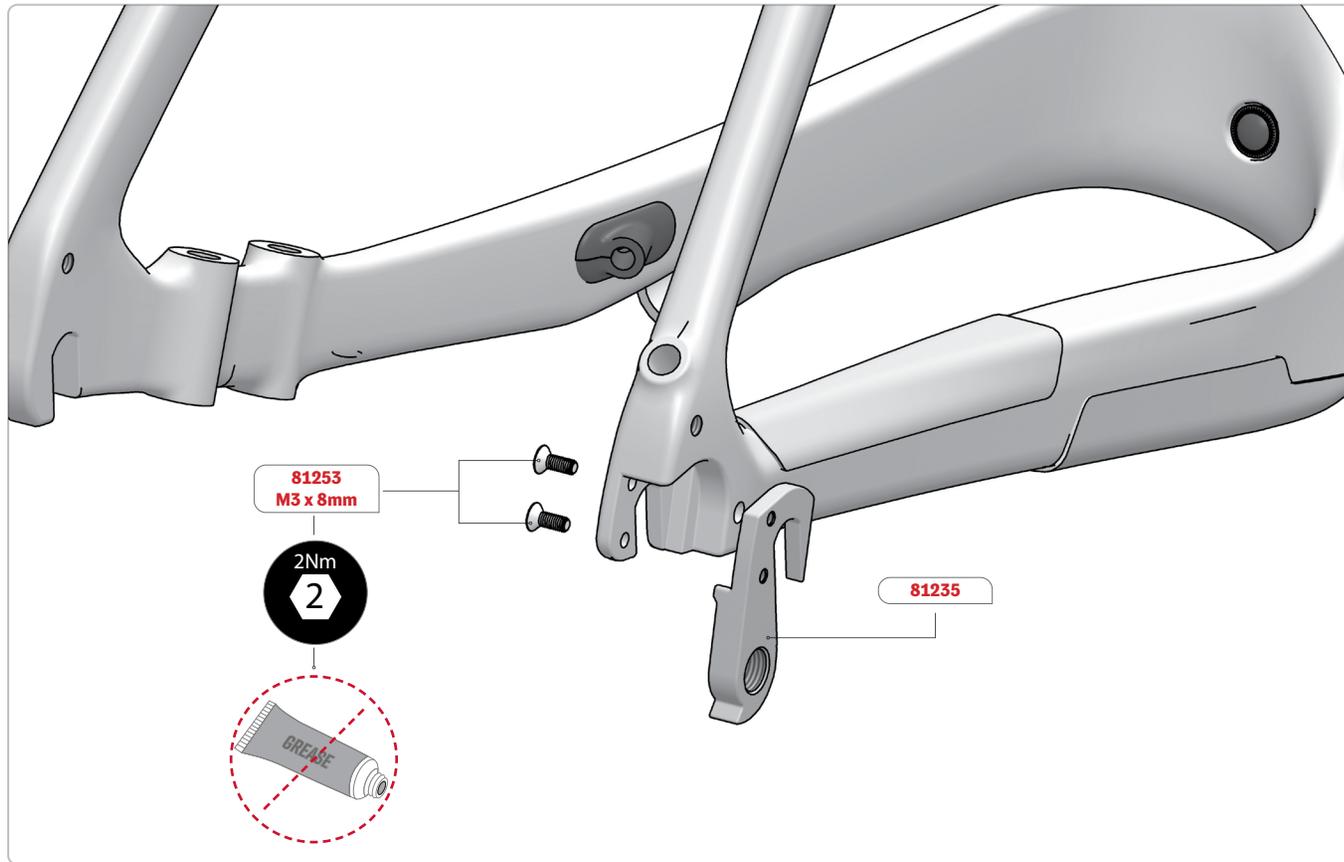
## 8. SEAT POST ASSEMBLY



**The seat post is supplied fully assembled.**

1. Unscrew both bolts slightly until the top clamp (a) and the cradle (b) are separated enough to insert the saddle rail. Do not unscrew the bolts completely.
2. Apply grease on the thread of each bolt.
3. Screw both bolts in order to adjust the angle of the saddle and clamp the rail.
4. Tighten the rear bolt to 9.5Nm.

## 9. REAR DERAILLEUR HANGER ADJUSTMENT

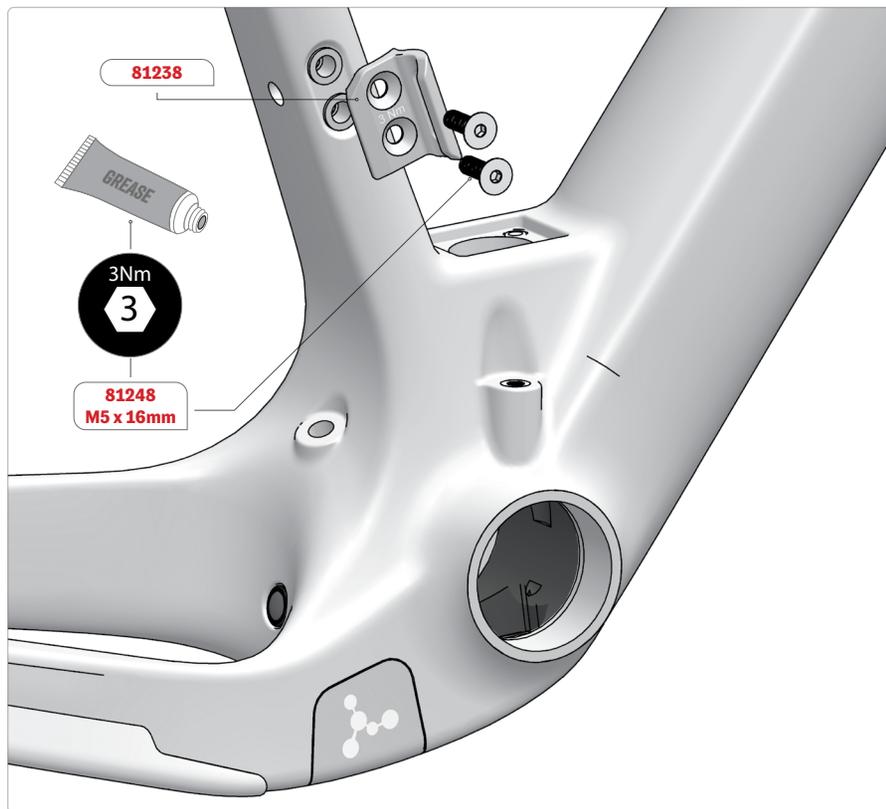


1. Assemble the rear derailleur hanger (SKU: 81235) on the frame with the two bolts (Flat head cap screw M3 x 8mm SKU: 81253).
2. Tighten bolts to 2Nm, do not apply grease on the thread.
3. Use a rear derailleur hanger alignment gauge to align the rear derailleur hanger.

**For assistance, visit Park Tool's website at:**

<https://www.parktool.com/blog/repair-help/rear-derailleur-hanger-alignment>

## 10. FRONT DERAILLEUR HANGER ASSEMBLY



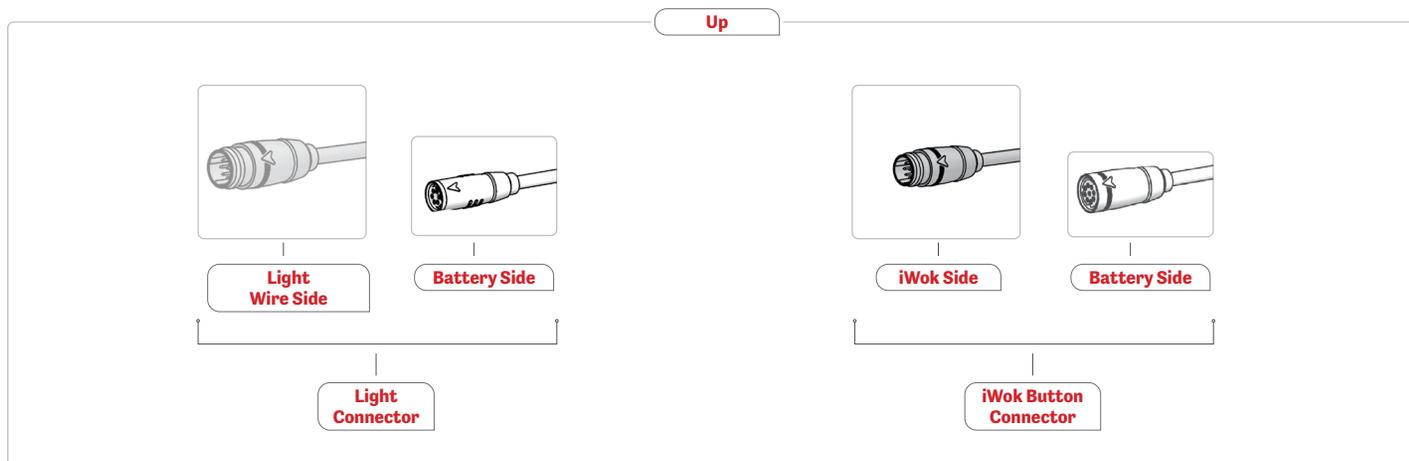
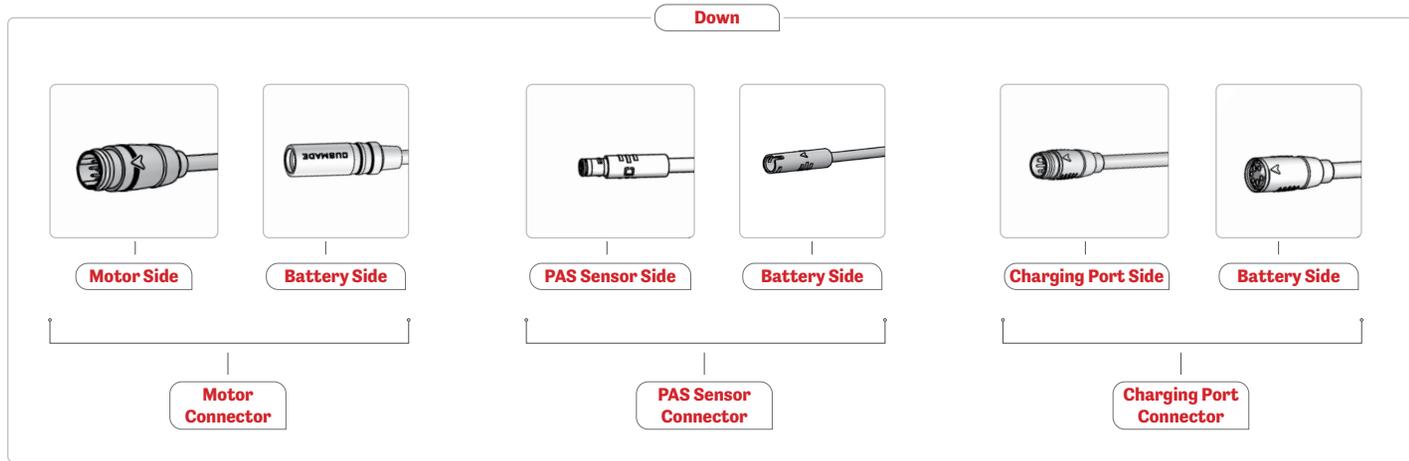
1. Apply grease on the thread of both M5 x 16mm bolts (SKU: 81248).
2. Assemble the front derailleur hanger (SKU: 81238) on the frame with the two bolts.
3. Tighten bolts to 3Nm.



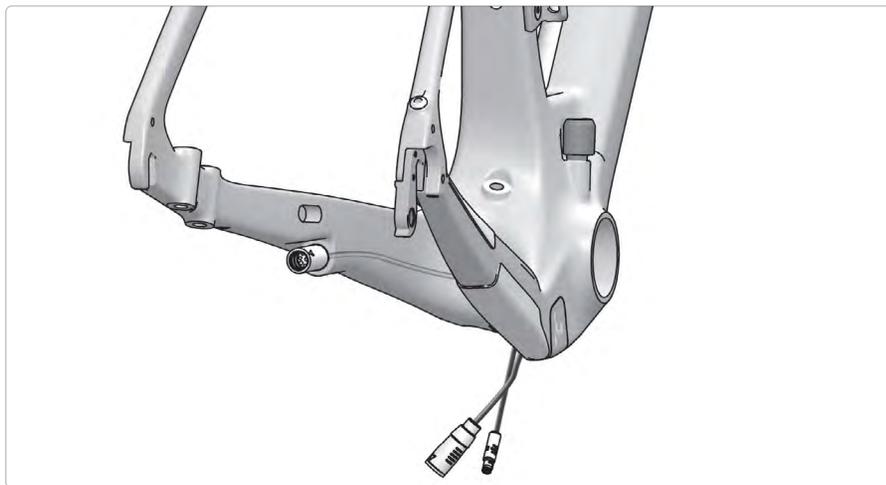
### Using a Single Chaining Set-Up:

1. Install the FD plug (SKU: 81240) to cover the hole.

## II.1 MAHLE CONNECTOR IDENTIFICATION



## 11.2 BATTERY INSTALLATION



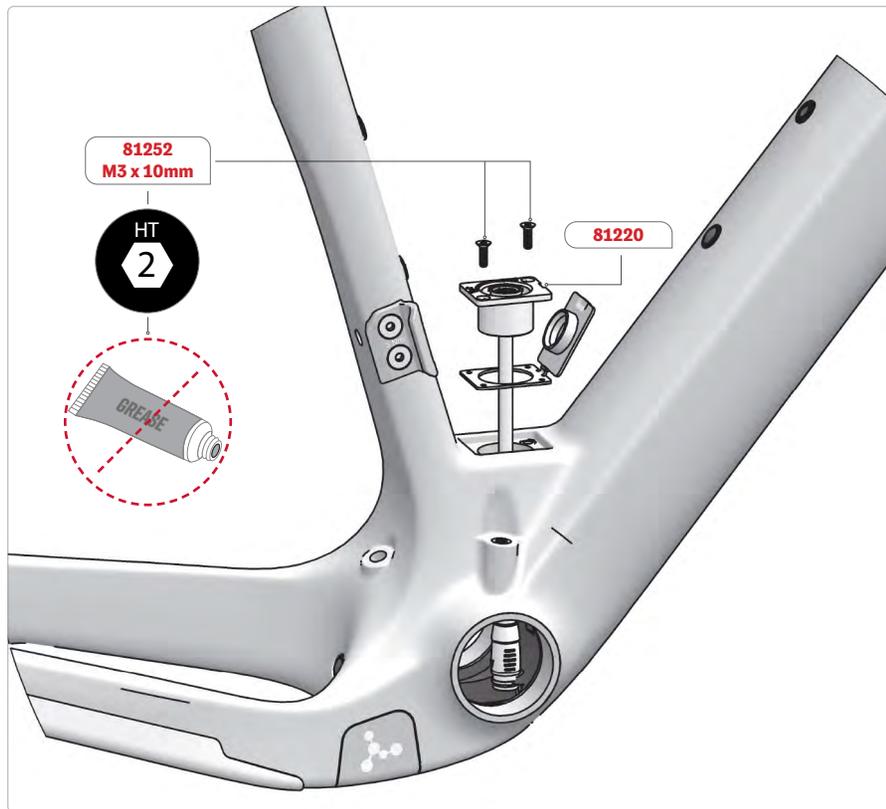
1. To help the assembly, always remove all Water Bottle Screws (81249) and Plastic Plug M5 (80264) from the frame's downtube before insertion or removal of the battery.
2. Insert the battery (SKU: 81218) through the hole under the bottom bracket. The three threaded mounting holes on the battery must face down. The side with the two connectors (iWok button connector and light connector) must be inserted first.
3. Guide the two connectors (iWok button connector and light connector) through the top of the head tube.
4. Install the 3 M5 x 10mm battery screws (SKU: 81250). Once the 3 screws are installed, tighten to 5Nm. Do not apply grease to the thread.
5. Guide the motor connector into the NDS chainstay and through the exit hole.



### IMPORTANT

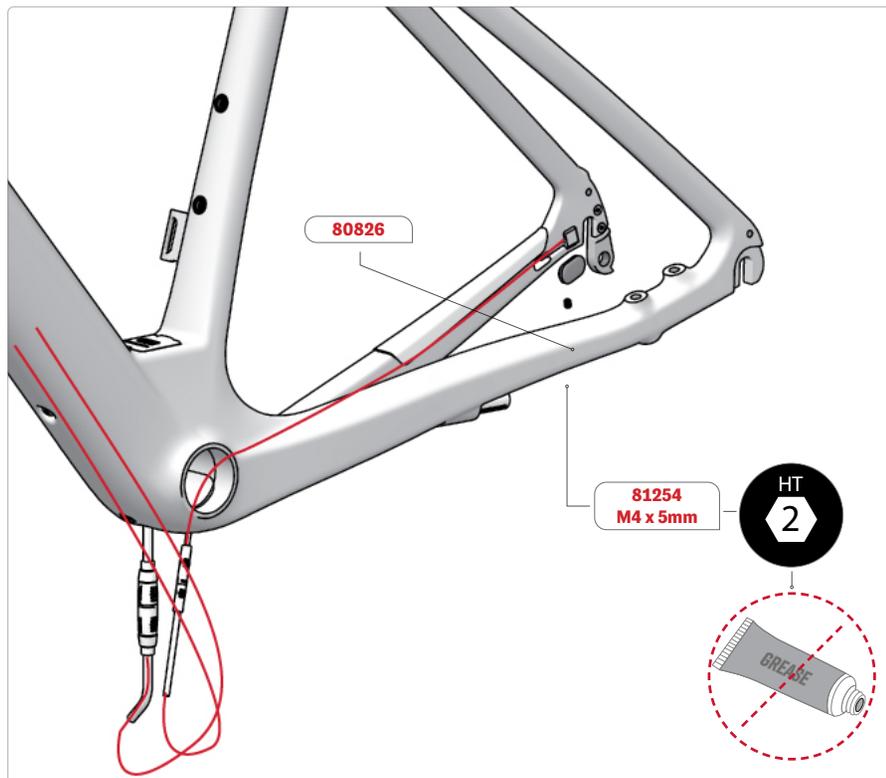
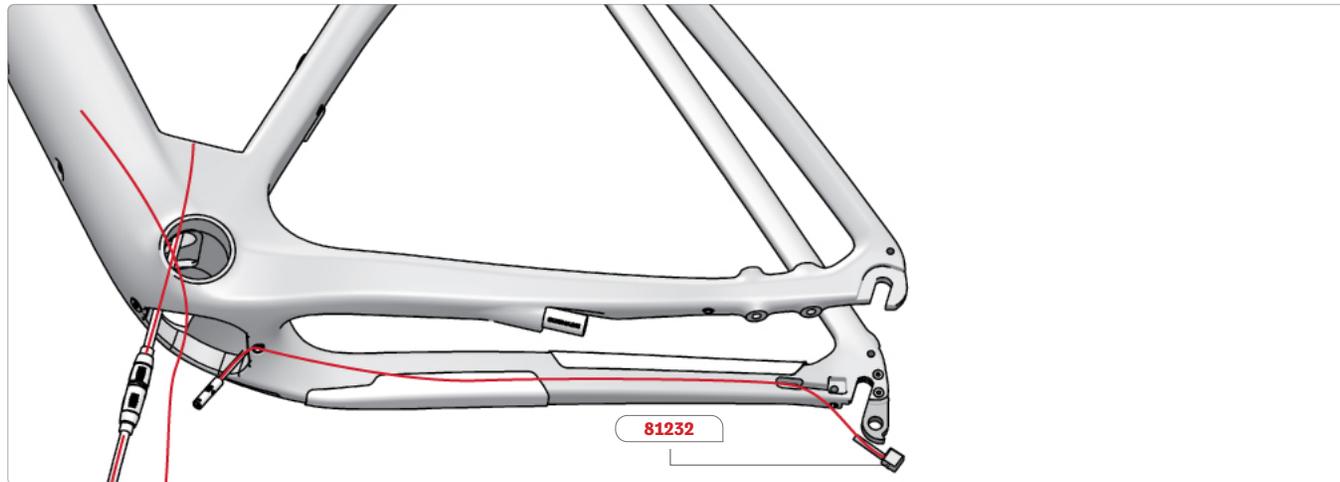
Use only M5 x 10mm screws. Using longer screws will damage the battery and void the warranty.

## 11.3 CHARGING PORT INSTALLATION



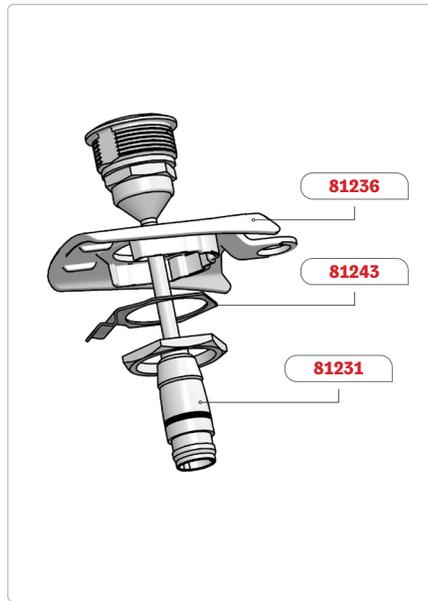
- 1.** Install the charging port with the arrow pointing the rear of the bike, that way the cover will open facing the down tube.
- 2.** Allow the charging port connector to exit through the BB hole.
- 3.** Install and tighten both M3 x 10mm screw (SKU: 81252) only by hand, do not apply grease on the thread.
- 4.** Connect the charging port connector to the matching connector on the battery. Align both arrows on each connector.

## 11.4 PAS SENSOR INSTALLATION



- 1.** Insert the cable of the PAS sensor (SKU: 81232) from the hole in the interior of the drive side chainstay.
- 2.** Exit the cable through the hole under the bottom bracket.
- 3.** Push the PAS sensor in the bottom of the PAS cavity.
- 4.** Hand tighten the M4 x 5mm setscrew (SKU: 81254) to secure the PAS sensor. Do not apply grease on the thread.
- 5.** Insert the grommet (SKU: 80826) to cover the cable insertion hole.
- 6.** Connect the PAS sensor cable to the matching connector on the battery, you will hear a clicking sound.

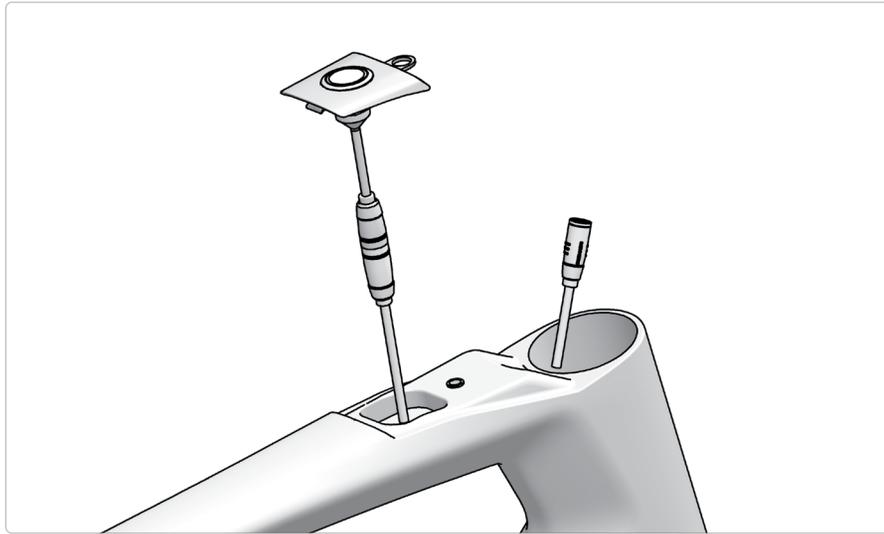
## 11.5 IWOC ONE ASSEMBLY



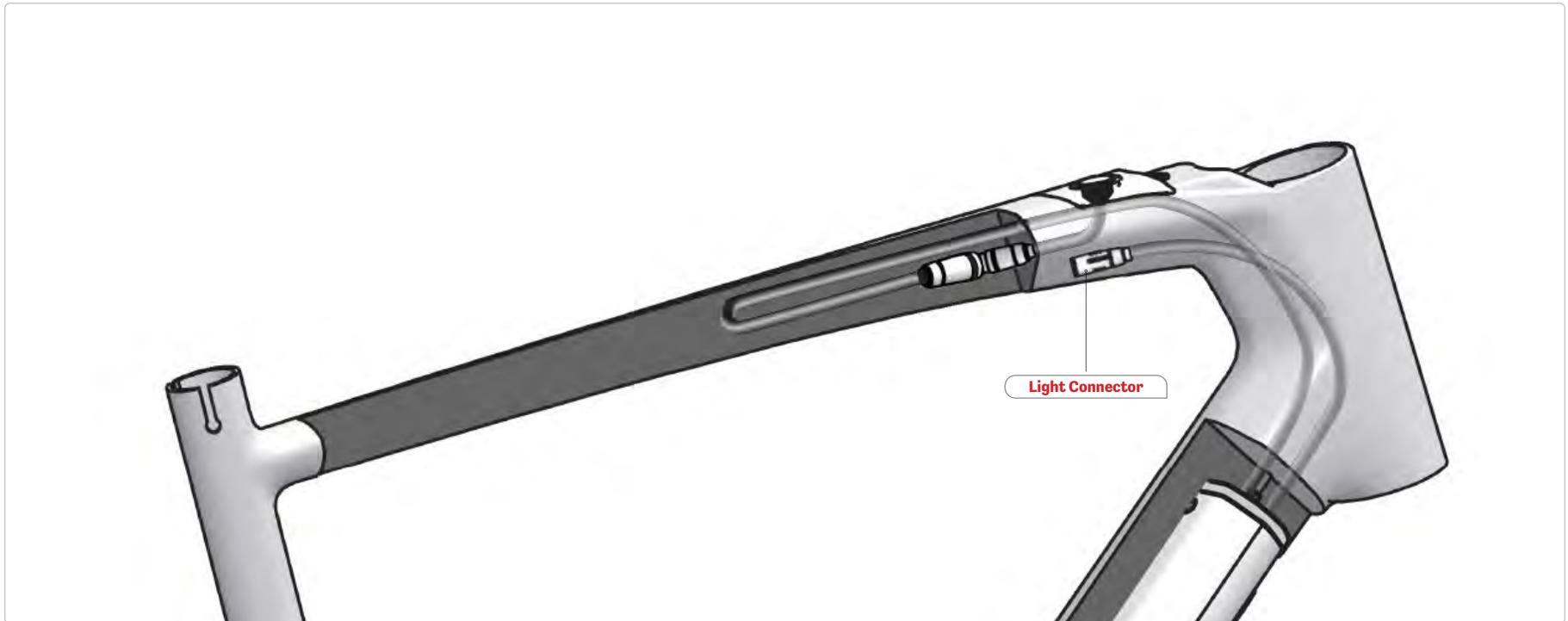
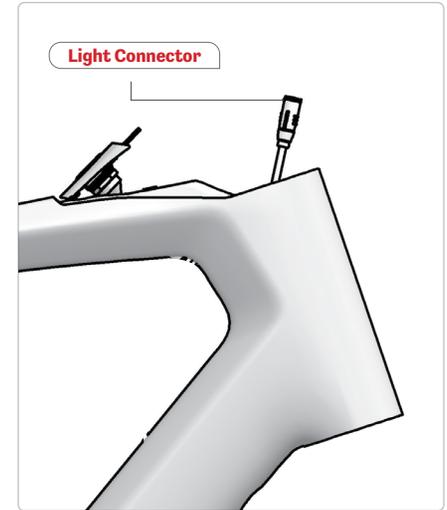
### Secure the iWoc one remote to the top tube button cap.

- 1.** Disassemble the iWoc one remote (SKU: 81231) from the one remote flat holder.
- 2.** Place the button cap clip (SKU: 81243) in the top tube button cap (SKU: 81236).
- 3.** Insert the iWoc one remote through the cover and button cap clip.
- 4.** Install the one remote nut and turn clockwise approximately 3 turns.
- 5.** Hold the iWoc one remote and turn the top tube button cap until the assembly is tight.

## 11.6 IWOC ONE INSTALLATION



1. Guide the iWok one remote connector from the battery through the top tube hole.
2. Connect the iWok one remote connector to the matching connector on the battery.
3. Push the cable in the top tube in the seat tube direction.
4. Insert the top tube button cap with the button cap clip first, and align the hole with the rivet.
5. Push the light cable in the top tube.

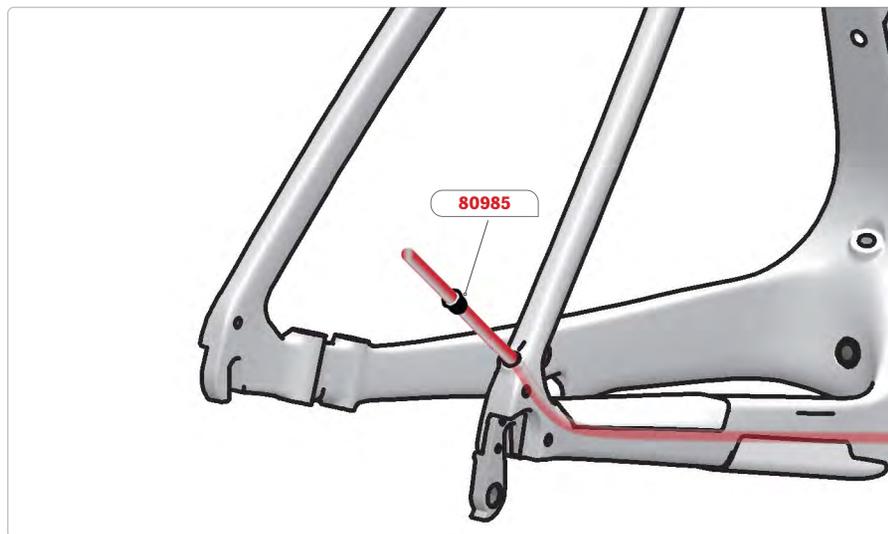


## 12.1 CABLE AND HOUSING ROUTING - MECHANICAL SHIFTING



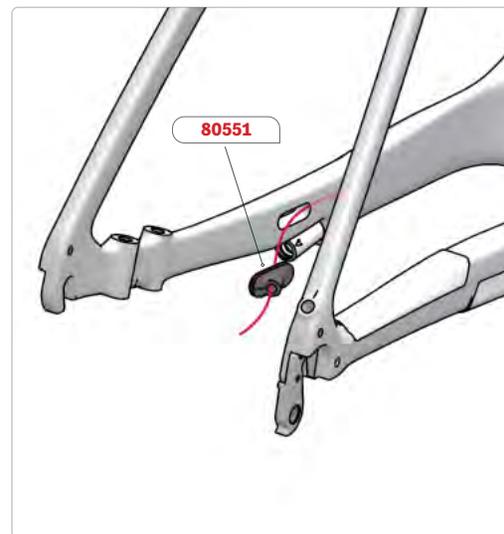
1. All cables must be routed above the battery.
2. The rear brake housing will be above the BB once installed.
3. Both derailleurs housing will be under the BB once installed.
4. All housing can be covered by a foam liner (SKU: 80811).

## 12.2 CABLE AND HOUSING ROUTING - MECHANICAL SHIFTING



### Rear Derailleur:

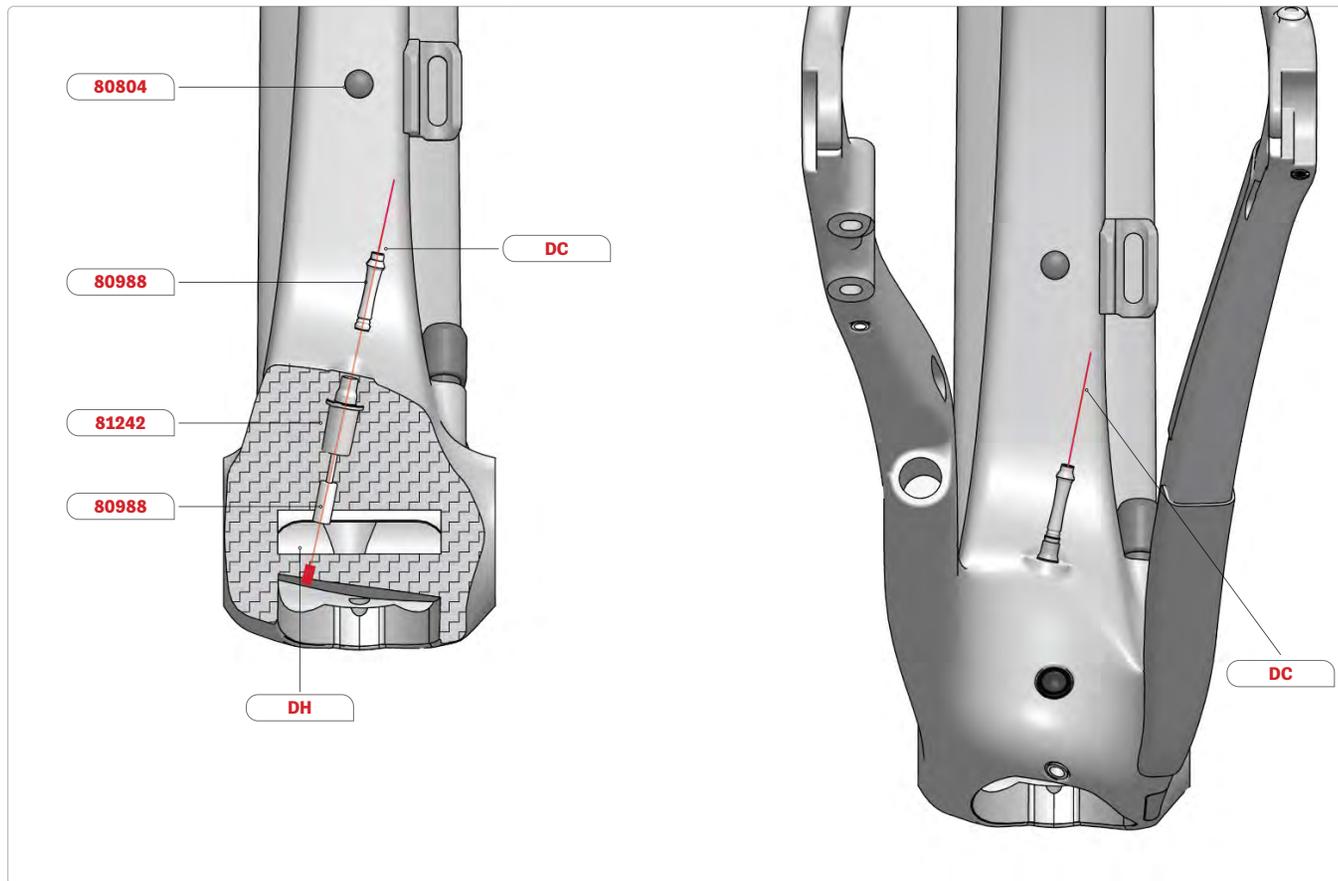
1. Insert housing from rear hole on the seat stay.
2. Guide the housing over the battery through the BB hole.
3. Exit the housing through the side guide hole.
4. Insert the mechanical grommet (SKU: 80985) on the seat stay hole.



### Rear Brake:

1. Insert housing from rear hole on the chainstay.
2. Guide the housing over the battery through the BB hole.
3. Exit the housing through the side guide hole.
4. Insert the rear brake oblong cable guide (SKU: 80551) on the chainstay hole.

## 12.3 CABLE AND HOUSING ROUTING - MECHANICAL SHIFTING

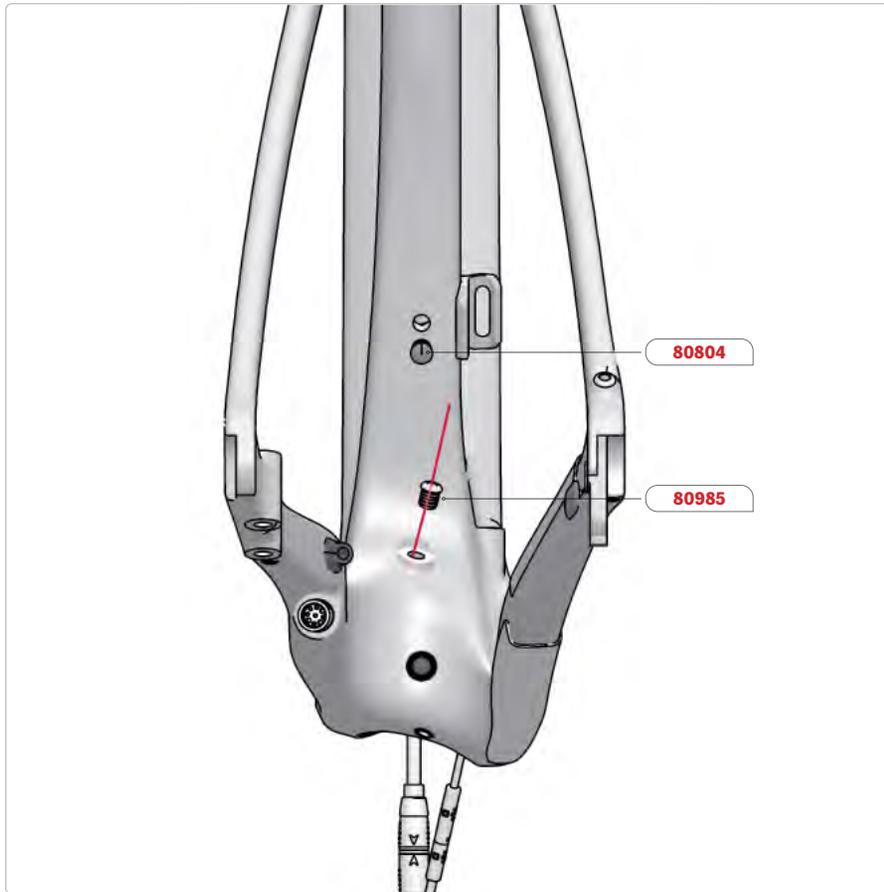


### Front Derailleur with cable stop:

1. Insert front derailleur housing from side guide hole.
2. Once the housing exits from the BB hole, install the dirt guard kit (SKU: 80988).
3. Install the FD cable stopper (SKU: 81242).
4. Install the cable in the housing.
5. Install the rubber dust seal (included in SKU: 80988).

6. Guide the housing in the hole behind the BB.
7. Install the plug grommet (SKU: 80804) on the Di2 seat tube hole.

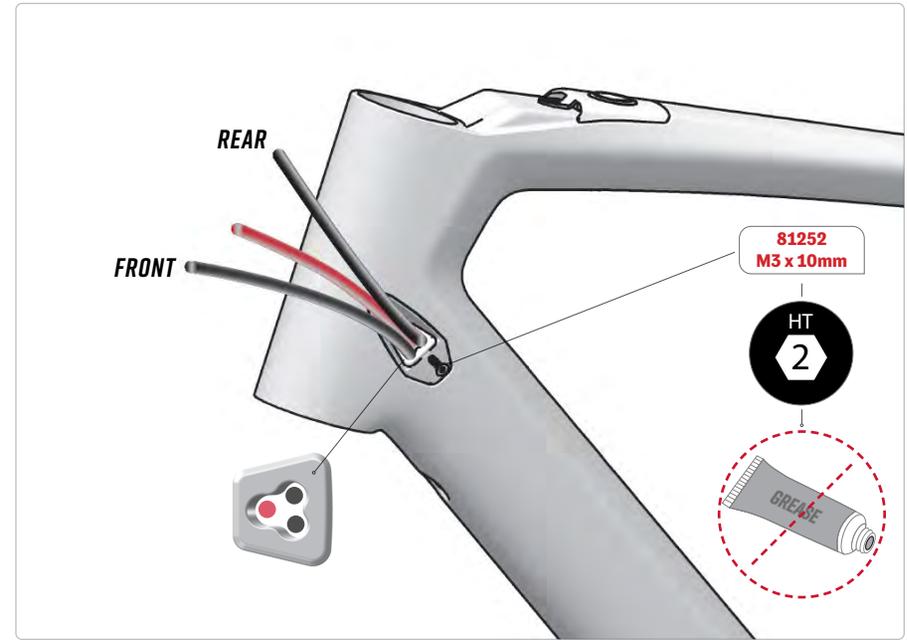
## 12.4 CABLE AND HOUSING ROUTING - MECHANICAL SHIFTING



### Front derailleur with full housing:

- 1.** Housing length will depend on the chainring.
- 2.** Insert front derailleur housing from side guide hole.
- 3.** Once the housing exits from the BB hole, guide the housing in the hole behind the BB.
- 4.** Install the mechanical grommet (SKU: 80985).
- 5.** Install the housing ferrule.
- 6.** Install the plug grommet (SKU: 80804) on the Di2 seat tube hole.

## 12.5 CABLE AND HOUSING ROUTING - MECHANICAL SHIFTING



### Parts Needed for Installation:

- Head Tube Side Guide (SKU: 81244)
- Side Grommet 2X (SKU: 81245)
- Flat Head Cap Screw M3 x 10mm (SKU: 81252)

- 1.** Install the grommet in the side guide.
- 2.** Route the cable through the assembly.
- 3.** Screw the side guide into the frame, hand tighten the screw without grease.

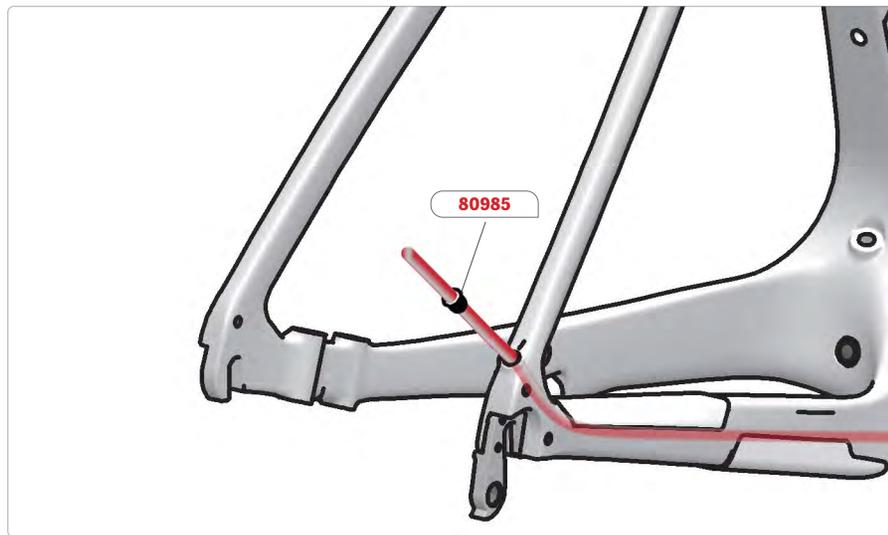
### **13.1 CABLE AND HOUSING ROUTING - MECHANICAL IX SHIFTING**



**BRAKE HOUSING**  
**DERAILLEUR CABLE/HOUSING**

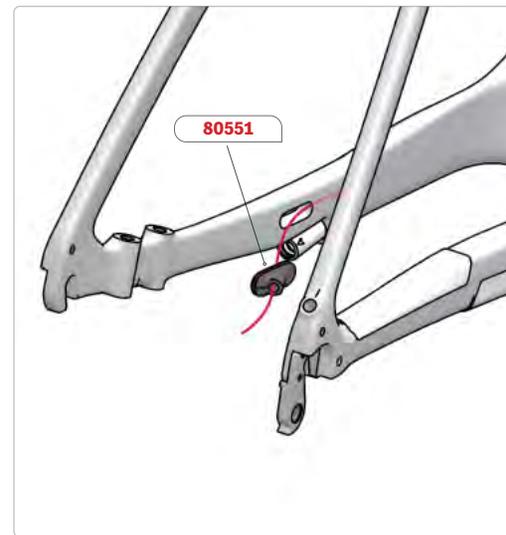
- 1.** All cables must be routed above the battery.
- 2.** The rear brake housing will run above the BB once installed.
- 3.** The rear derailleur housing will be under the BB once installed.
- 4.** All housing can be covered by a foam liner (SKU: 80811).

## 13.2 CABLE AND HOUSING ROUTING - MECHANICAL IX SHIFTING



### Rear Derailleur:

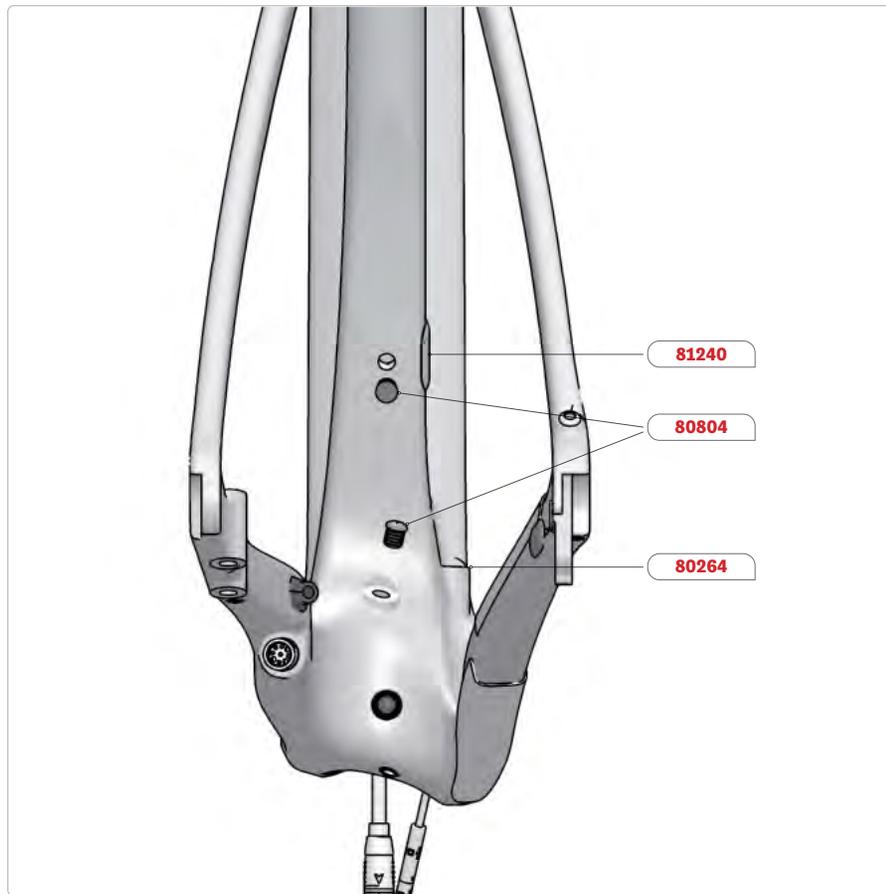
1. Insert housing from rear hole on the seat stay.
2. Guide the housing over the battery through the BB hole.
3. Exit the housing through the side guide hole.
4. Insert the mechanical grommet (SKU: 80985) into the seat stay hole.



### Rear Brake:

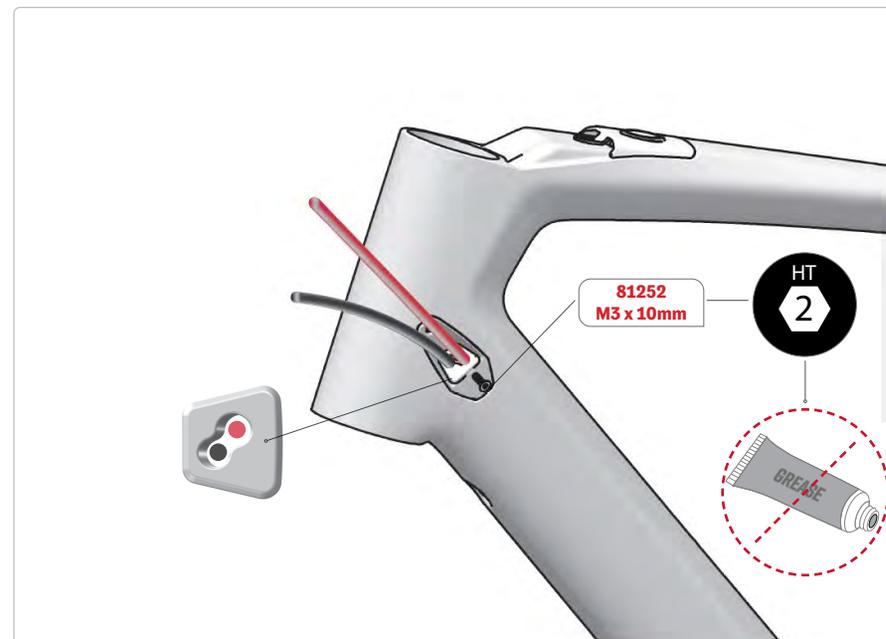
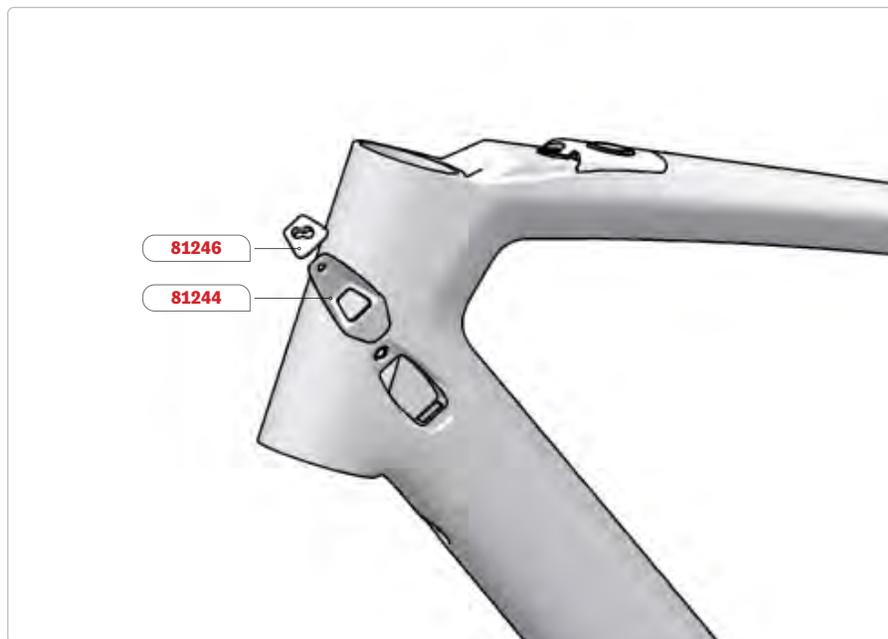
1. Insert housing from rear hole on the chainstay.
2. Guide the housing over the battery through the BB hole.
3. Exit the housing through the side guide hole.
4. Insert the rear brake oblong cable guide (SKU: 80551) into the chainstay hole.

### 13.3 CABLE AND HOUSING ROUTING - MECHANICAL IX SHIFTING



1. Install the FD plug (SKU: 81240) over the two FD hanger rivets. Refer to page 15.
2. Install the plug grommet (SKU: 80804) in the Di2 seat tube hole and FD housing exit hole.
3. Install a M5 plug (SKU: 80264) over the chain catcher hole.

### 13.4 CABLE AND HOUSING ROUTING - MECHANICAL IX SHIFTING



#### Parts Needed for Installation:

- Head Tube Side Guide (SKU: 81244)
- Side Grommet 1X (SKU: 81246)
- Flat Head Cap Screw M3 x 10mm (SKU: 81252)

- 1.** Install the grommet in the side guide.
- 2.** Route the cable through the assembly.
- 3.** Screw the side guide on the frame, hand tighten the screw without grease.

## 14.1 CABLE AND HOUSING ROUTING - ELECTRONIC WIRE ROUTING

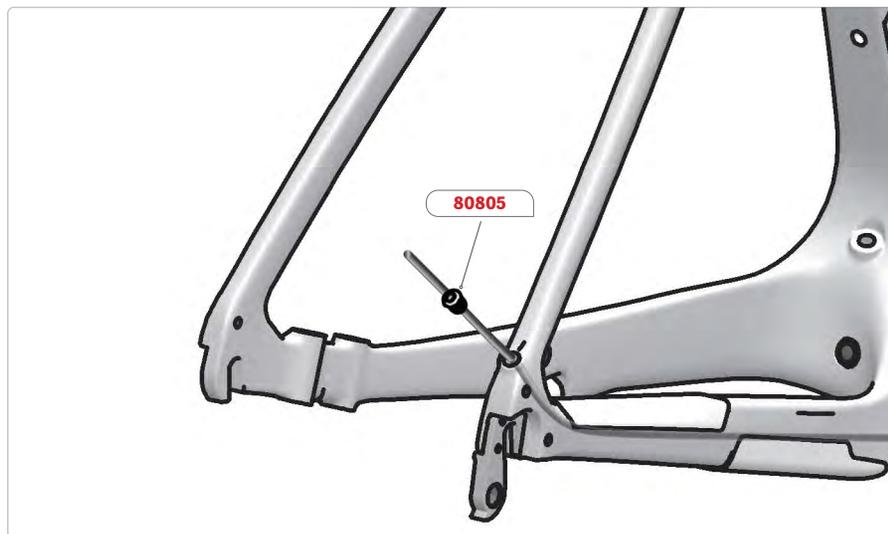
# di2



**BRAKE HOUSING**  
**DERAILLEUR CABLE**

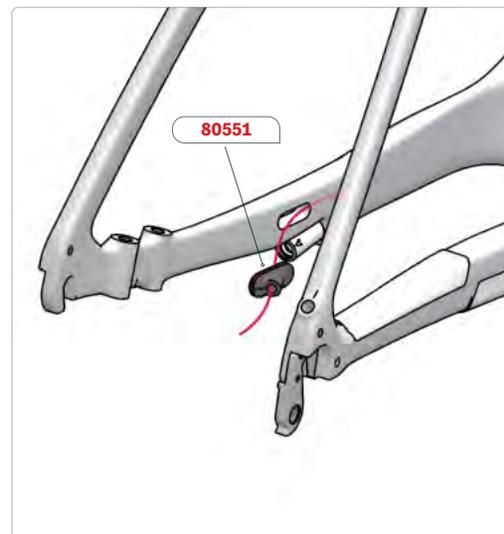
- 1.** All cables must be routed above the battery.
- 2.** The rear brake housing will be above the BB once installed.
- 3.** The rear derailleur housing will be under the BB once installed.
- 4.** Brake housing can be covered by a foam liner (SKU: 80811).

## 14.2 CABLE AND HOUSING ROUTING - ELECTRONIC WIRE ROUTING



### Rear Derailleur:

1. Insert the Di2 rear derailleur cable from rear hole on the seat stay until it exits from the BB hole.
2. Insert the Di2 junction A cable from side guide hole until it exits from the BB hole.
3. Insert Di2 battery cable from seat tube until it exits from the BB hole.
4. Plug the three cable to the junction box.
5. Insert the Di2 grommet (SKU: 80805) into the seat stay hole.



### Rear Brake:

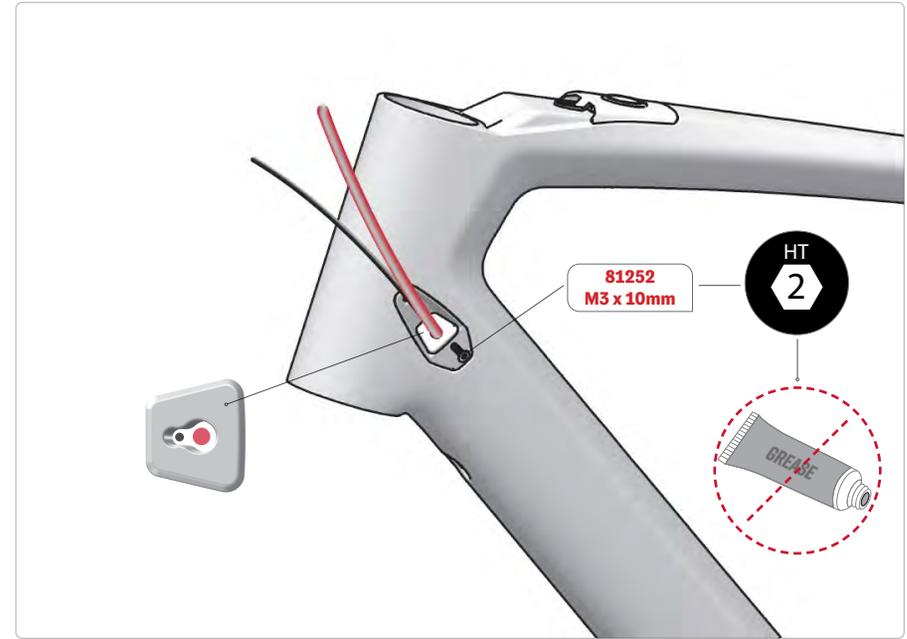
1. Insert housing from rear hole on the chainstay.
2. Guide the housing over the battery through the BB hole.
3. Exit the housing through the side guide hole.
4. Insert the rear brake oblong cable guide (SKU: 80551) into the chainstay hole.

### 14.3 CABLE AND HOUSING ROUTING - ELECTRONIC WIRE ROUTING



1. Insert Di2 front derailleur cable from hole behind seat tube until it exits from the BB hole.
2. Plug the cable into the junction box.
3. Install the plug grommet (SKU: 80804) in the FD housing exit hole and the Di2 grommet (SKU: 80805) into the Di2 seat tube hole.

## 14.4 CABLE AND HOUSING ROUTING - ELECTRONIC WIRE ROUTING



### Parts Needed for Installation:

- Head Tube Side Guide (SKU: 81244)
- Side Grommet Di2 (SKU: 81247)
- Flat Head Cap Screw M3 x 10mm (SKU: 81252)

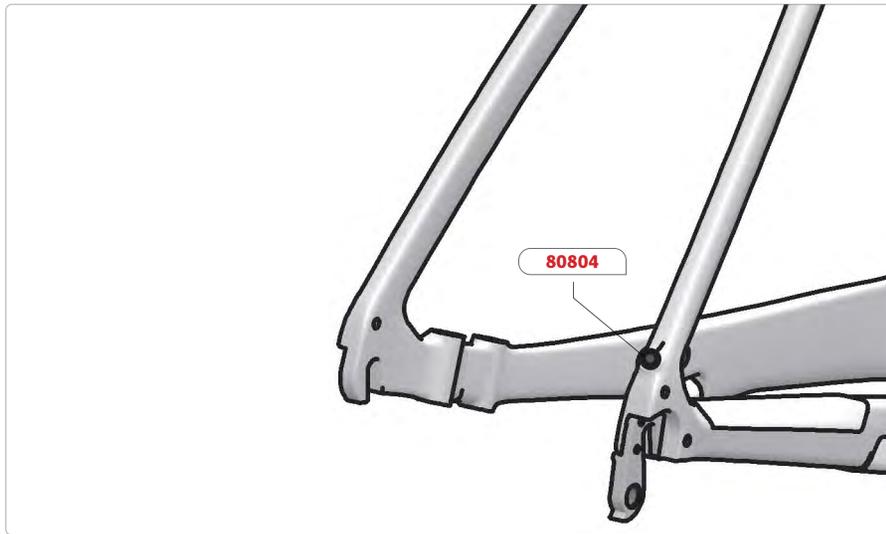
- 1.** Install the grommet in the side guide.
- 2.** Route the cable through the assembly. Start by inserting the Di2 cable, then insert the brake housing.
- 3.** Screw the side guide onto the frame, hand tighten the screw without grease.

## 15.1 CABLE AND HOUSING ROUTING - ELECTRONIC WIRELESS ROUTING



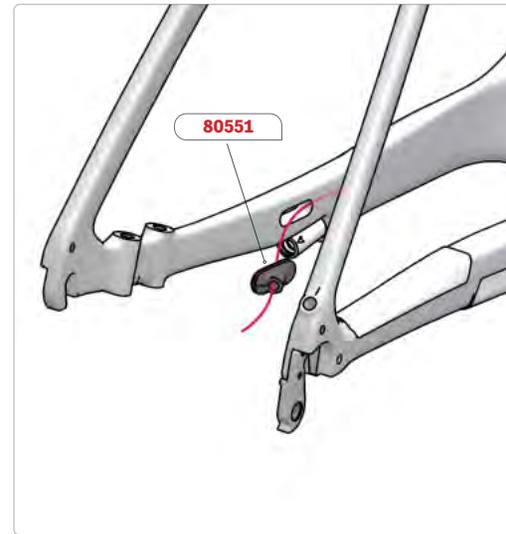
1. The rear brake housing must be routed above the battery and it will be above the BB once installed.
2. Brake housing can be covered by a foam liner (SKU: 80811).

## 15.2 CABLE AND HOUSING ROUTING - ELECTRONIC WIRELESS ROUTING



### Rear Derailleur:

1. Install the plug grommet (SKU: 80804) in the seat stay hole.



### Rear Brake:

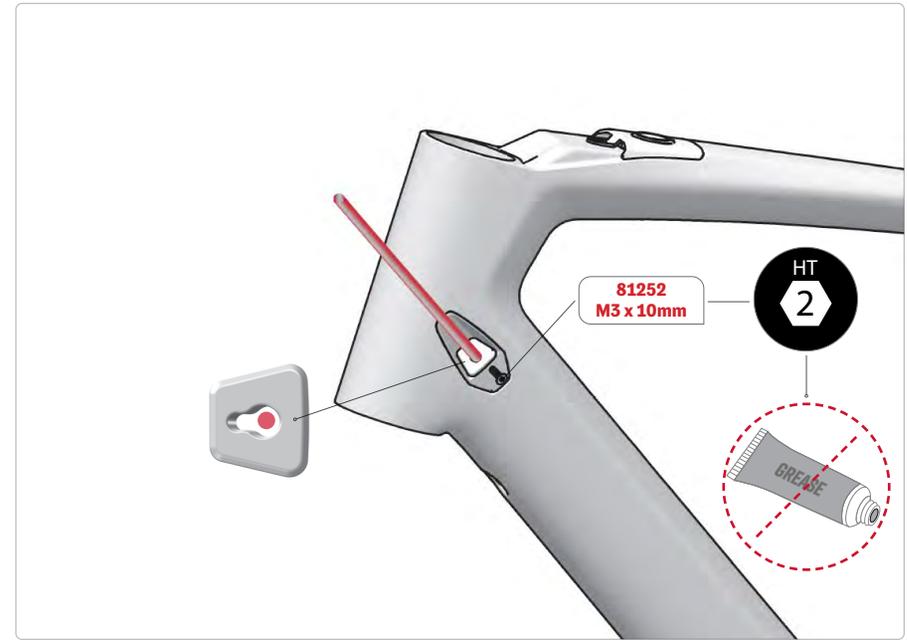
1. Insert housing from rear hole on the chainstay.
2. Guide the housing over the battery through the BB hole.
3. Exit the housing through the side guide hole.
4. Insert the rear brake oblong cable guide (SKU: 80551) into the chainstay hole.

### 15.3 CABLE AND HOUSING ROUTING - ELECTRONIC WIRELESS ROUTING



1. Install the plug grommet (SKU: 80804) on the Di2 seat tube hole and FD housing exit hole.

## 15.4 CABLE AND HOUSING ROUTING - ELECTRONIC WIRELESS ROUTING



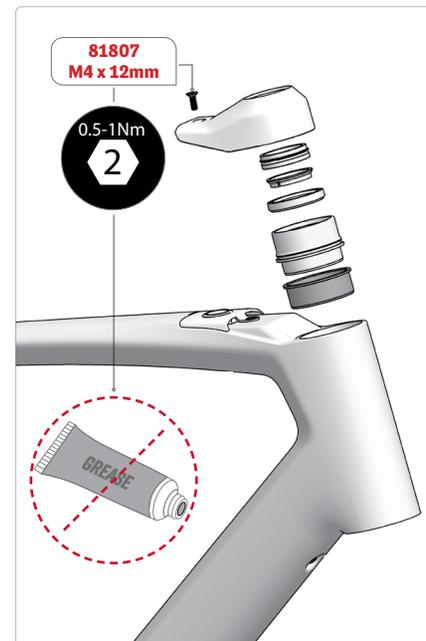
### Part needed for installation:

(Note that the same grommet as Di2 is used for this configuration)

- Head tube side guide (SKU: 81244)
- Side grommet Di2 (SKU: 81247)
- Flat head cap screw M3 x 10mm (SKU: 81252)

- 1.** Install the grommet in the side guide.
- 2.** Route the cable through the assembly.
- 3.** Screw the side guide onto the frame, hand tighten the screw without grease.

## 16. HEADSET INSTALLATION



### Assembly process:

- 1.** Install the headset plastic sleeve into the top of the head tube. (Apply grease on the sleeve)
- 2.** Insert the required headset column, 0, 15 or 30mm, in the headset plastic sleeve. (Apply grease)
- 3.** Insert bottom bearing (MR127) on the fork. (Apply grease)
- 4.** Insert top bearing (MR122) in the headset column. (Apply grease)
- 5.** Slide the fork into the head tube.
- 6.** Install conical compressor ring.
- 7.** Install stack compressor.
- 8.** Apply grease on the headset seal to avoid any noise.
- 9.** Install the corresponding headset cap to complete the assembly.
- 10.** Fix the cap and the button holder with the M4 x 12 flat head cap screw (81807). Torque between 0.5 and 1Nm, do not apply grease.

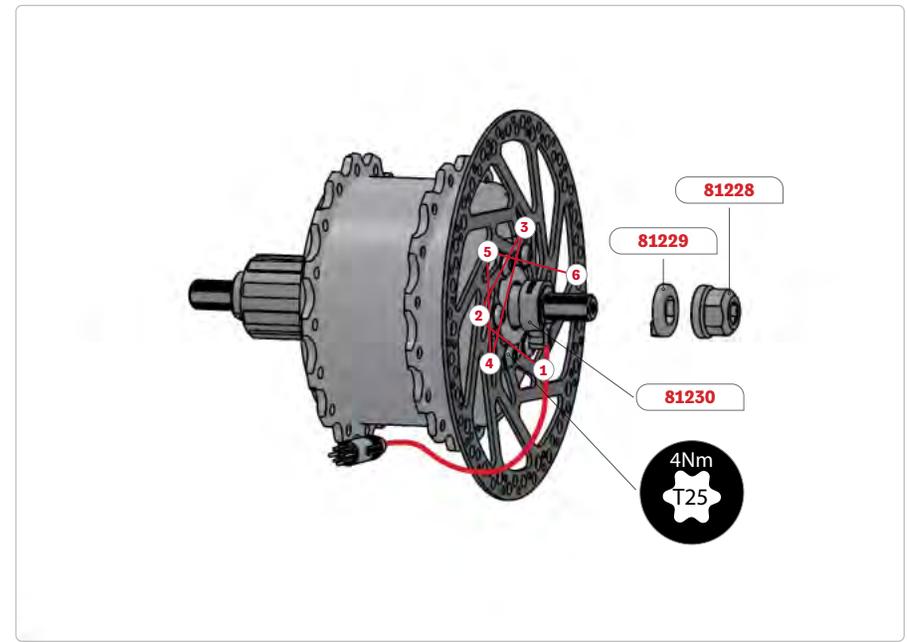
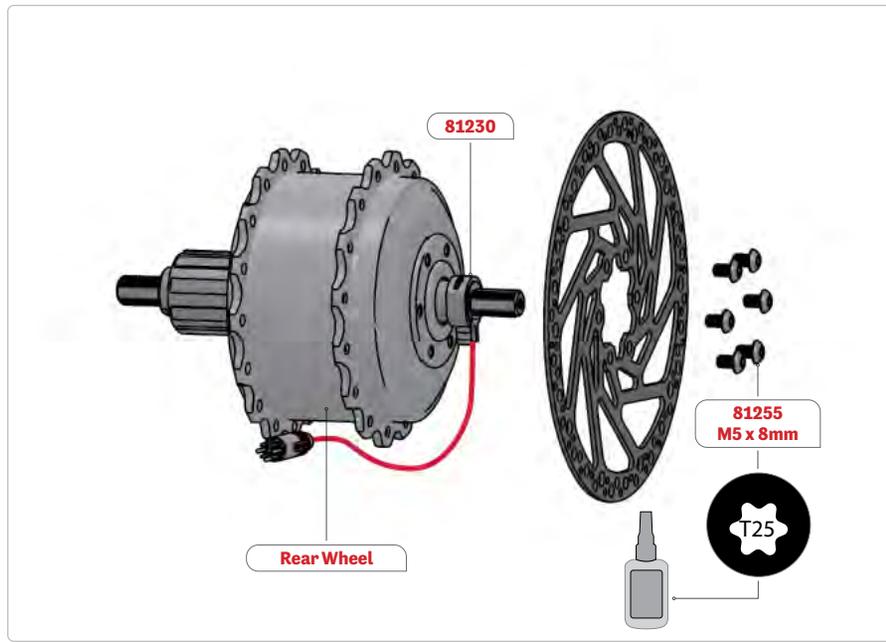


### Headset Cap:

When uninstalling the headset cap, you need to first loosen the headset cap, remove the headset cap screw and remove the fork from the frame. Then you need to pinch the rear section the headset cap and lift the rear section upward. This will release the headset cap from the frame.

**AS WITH ALMOST ALL ARGON 18 BIKES, THE SUBITO PROVIDES YOU WITH THE BENEFIT OF THE 3D SYSTEM. THIS SYSTEM ALLOWS FOR 3 POSITIONS: 0MM, 15MM, OR 30MM.**

## 17.1 REAR WHEEL INSTALLATION (DISC INSTALLATION)



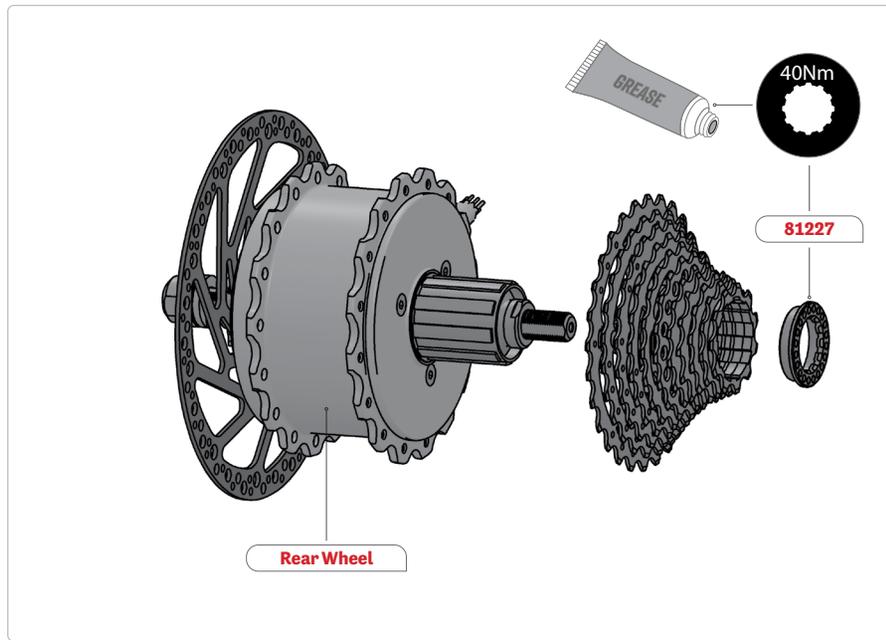
1. Use the M5 x 8mm torx screw (SKU: 81255) supplied with the frameset. A longer screw will damage the motor.
2. Apply loctite before installing the bolt.
3. Once the bolts are hand tightened, turn the rotor clockwise to assure a good contact between the rotor and the bolt.
4. Tighten to 4Nm in a star pattern.
5. Install the cable shield (SKU: 81230).
6. Install the torque washer nut (SKU: 81229), aligning the shoulder with the cable.
7. Install the motor lock nut (SKU: 81228).



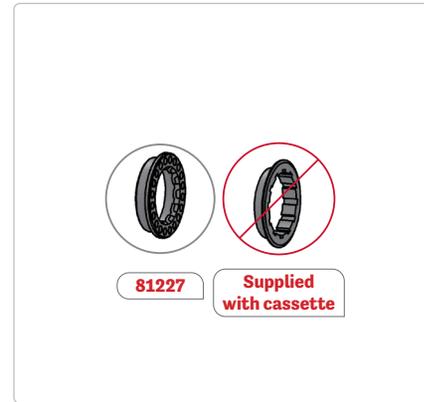
### IMPORTANT

Use only M5 x 8mm screws. Using longer screws will lock the motor and void the warranty.

## 17.2 REAR WHEEL INSTALLATION (CASSETTE INSTALLATION)



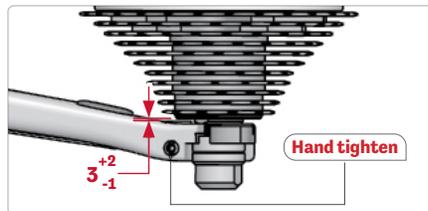
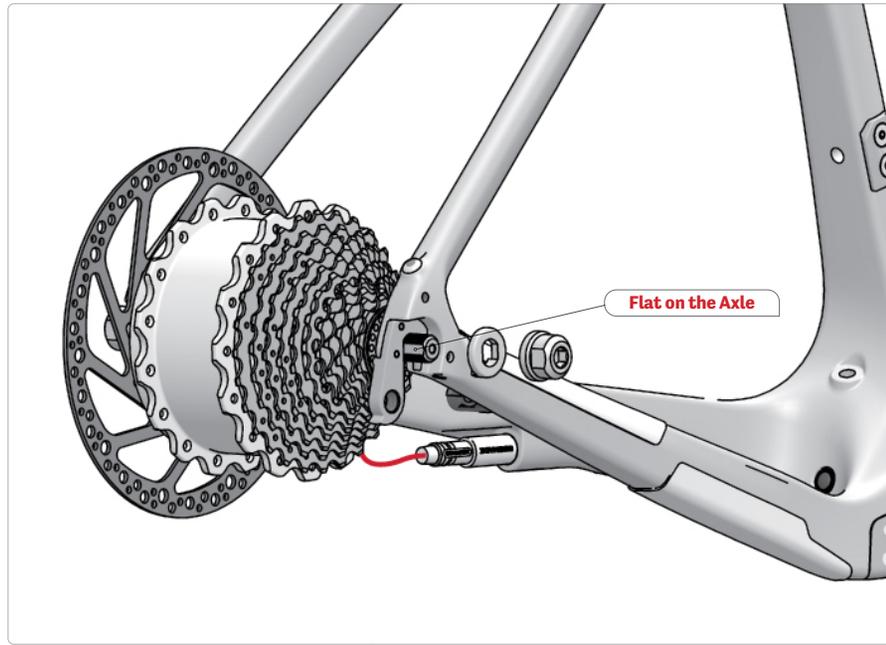
1. You will need to replace the the lockring supplied with the cassette and use the magnet locknut (SKU: 81227).
2. Place the cassette on the cassette body, aligning the spline.
3. Grease the threads of the magnet locknut.
4. Screw the magnet locknut in place.
5. Torque to 40Nm.



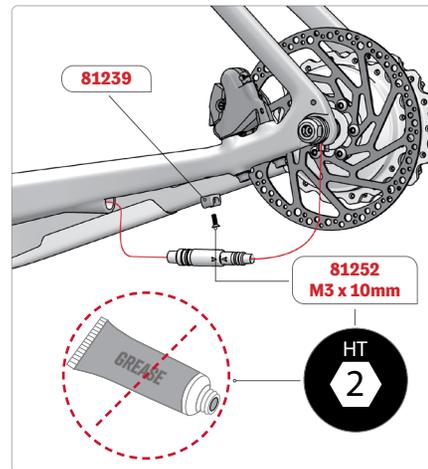
### IMPORTANT

Use the supplied cassette Magnet lock nut (SKU: 81227). Without it (SKU: 81227), the ebikemotion system will not recognize the pedaling movement and will not provide any assistance.

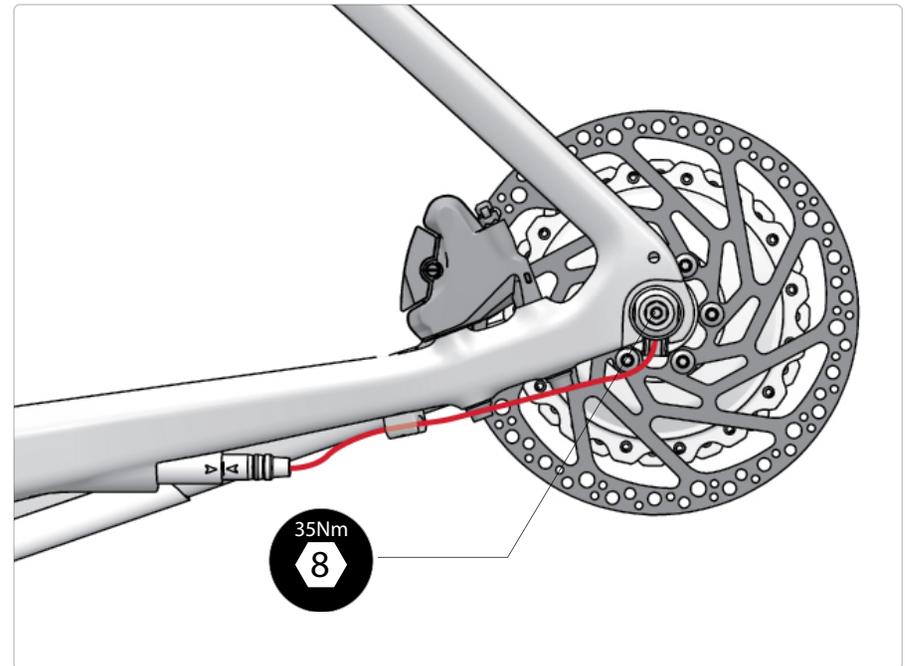
## 17.3 REAR WHEEL INSTALLATION



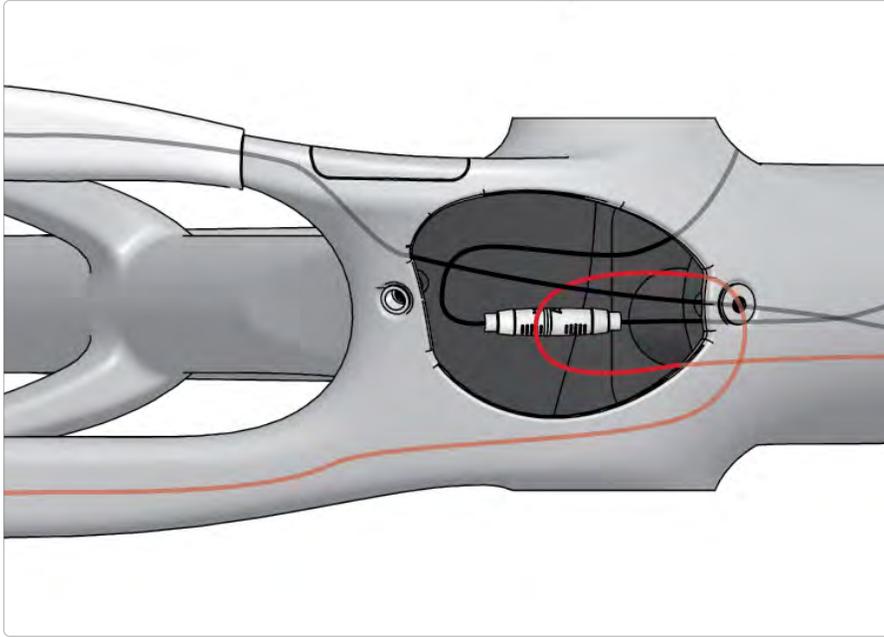
Adjust PAS sensor distance: Distance from PAS sensor to magnet must be between 2 and 5mm. Hand tighten the screw.



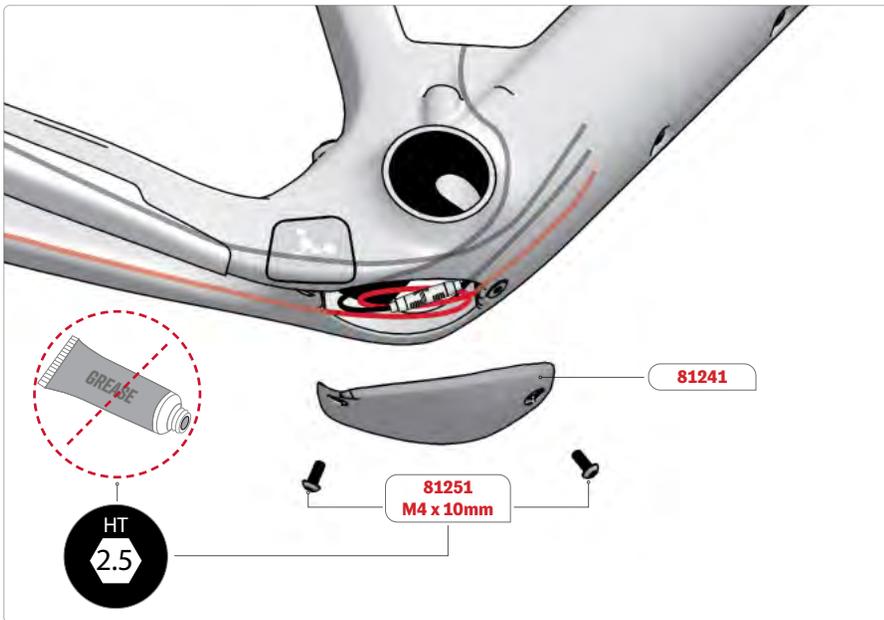
1. Align the flat on the axle with the drop-out, the cable must exit downward.
2. Tighten NDS motor lock nut with an 8mm Allen key, torque to 35Nm.
3. Install the drive side torque washer nut (SKU: 81229), aligning the shoulder with the NDS washer.
4. Install the drive side motor lock nut (SKU: 81228) and tighten with an 8mm Allen key, torque to 35Nm.
5. Install the chainstay wire clip (SKU: 81239), using the M3 x 10mm flat head cap screw (SKU: 81252), hand tighten and do not apply grease.
6. Connect the motor cable to the battery, align both arrows on the connector.
7. Push the connector into the chainstay, you can pull from the BB hole to help.
8. Clip the cable in the cable clip contouring the brake bolts.



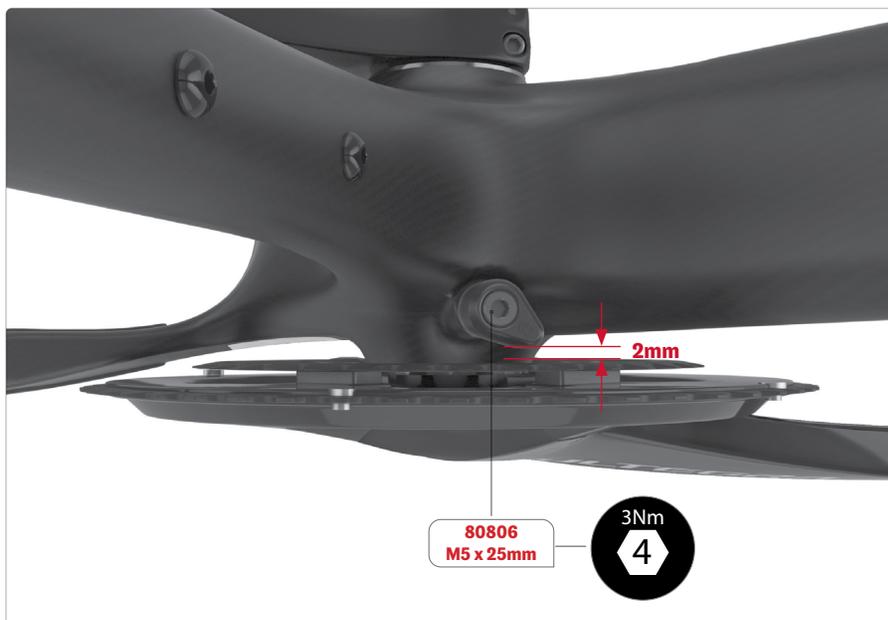
## 17.4 BB COVER INSTALLATION



1. Install the bottom bracket using a bottom bracket press.
2. Push the cable into the opening. Make sure the motor cable has enough range of movement to be able to remove the wheel without removing the BB cap.
3. Install the BB cap (SKU: 81241), hand-tight the M4 x 10mm button head cap screw (SKU: 81251), do not apply grease.



## 18. CHAIN CATCHER



1. Select the appropriate chain catcher (SKU: 80806). The selection of the correct chain catcher is made according to the size of the small chainring.

<i>SMALL CHAIN RING SIZE</i>	<i>CHAIN CATCHER</i>
30-32	Small
34 and more	Large

2. Insert the M5 x 25mm screw (a) in the chain catcher (b) and place the lock washer (c) between the frame and the piece. Secure the assembly pointing forward, loose enough to be able to adjust the parts.
3. Install the crank according to manufacturer's specifications.
4. Place the tip of the chain catcher at approximately 2mm to the inner side of the small chain ring and torque at 3Nm.

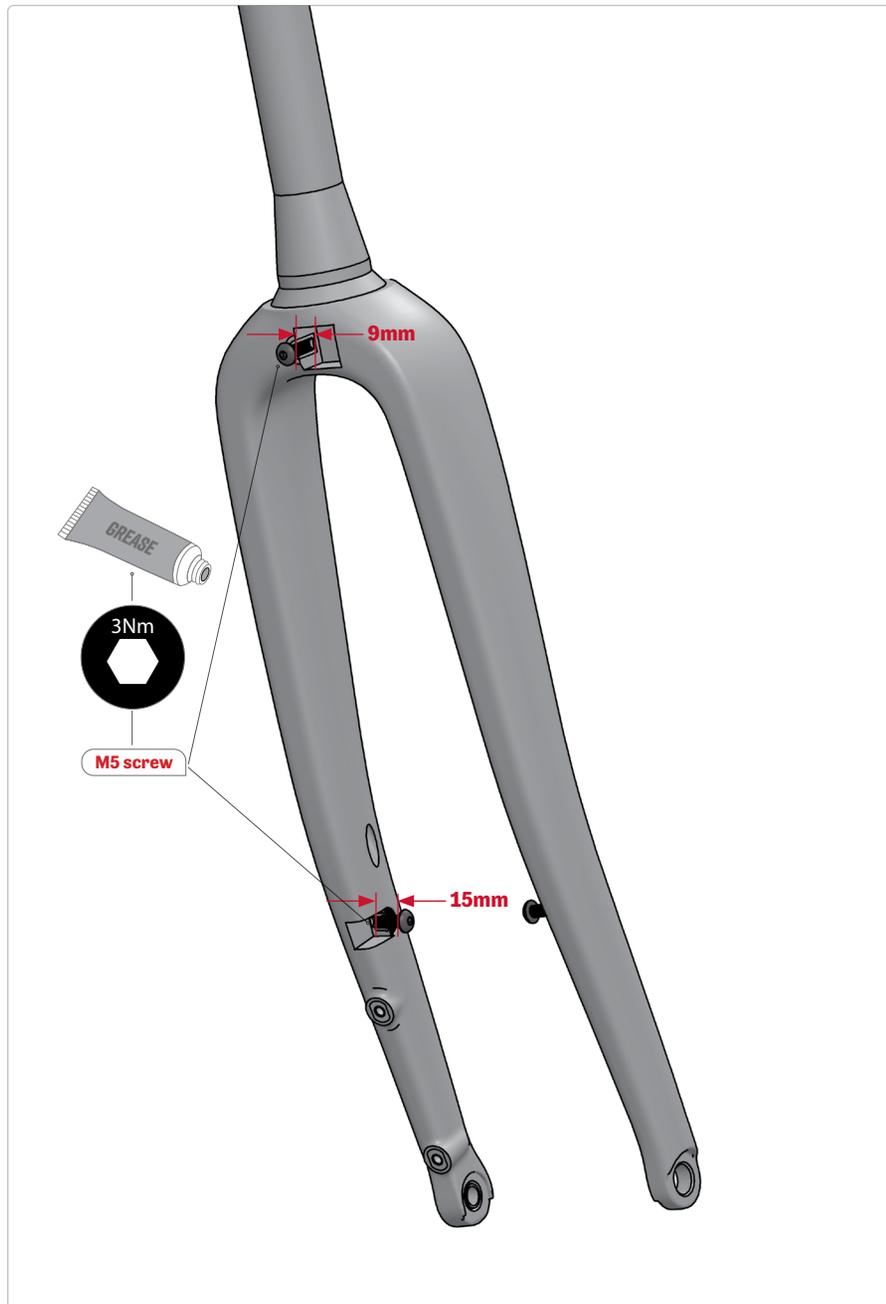
## 19. REAR RACK AND FENDER INSTALLATION



1. According to the model of fender used, place the fender bracket (SKU: 80808) at the correct height on the seat stay.
  2. Secure the fender bracket with the two supplied rubber bands making sure that the 2 plastic parts overlap.
  3. When securing the fender and/or the rear rack on the drop-out, make sure that the screw doesn't interfere with the chain. The maximum insertion of the screw is 15mm to avoid protrusion and possible chain interference. Make sure there's at least 10mm of screw insertion to support the load.
  4. On the seat stay, the thread length is 8mm, make sure to have 8mm or less of thread insertion.
- \* If a fender is used with a rear rack: if possible, screw the fender onto the rear rack. If not, place the rear rack between the frame and the fender on the screw. All screws must be torqued to a maximum of 3Nm. Apply grease on the thread.



## 20. FRONT FENDER INSTALLATION



- On the upper screw, the thread length is 9mm. Make sure to have 9mm or less of thread insertion.
- On the lower screw, the thread insertion is 15mm. The thread starts 5mm above the surface of the fork. There must be between 10 and 15mm of visible thread once the fender is on the screw.
- All screws must be torqued to a maximum of 3Nm. Apply grease on the thread.

## 21. RANGE EXTENDER AND WATER BOTTLE POSITION

XXS



XS



S



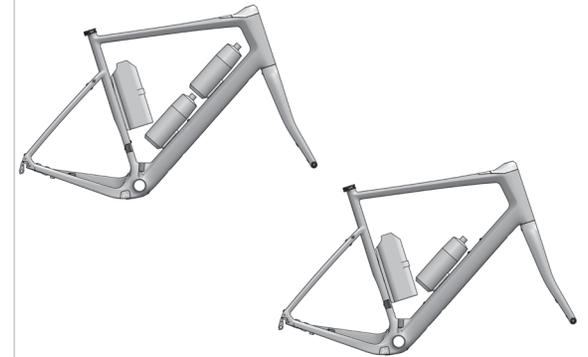
M



L

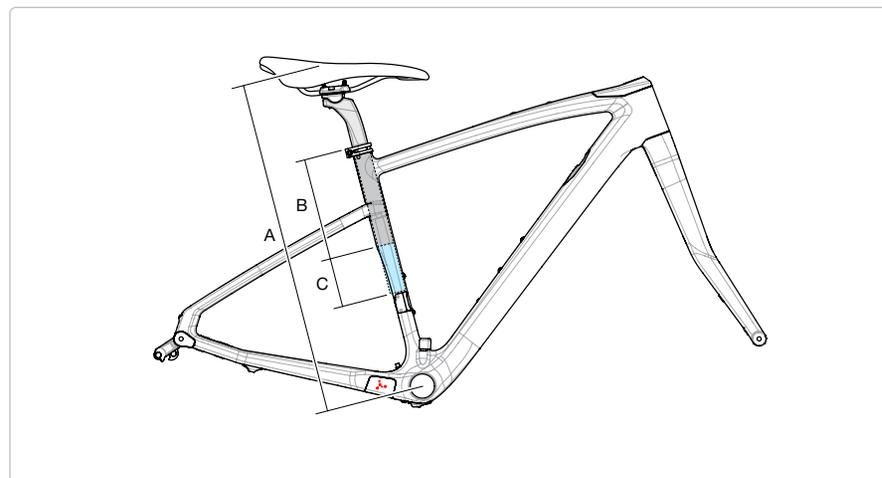
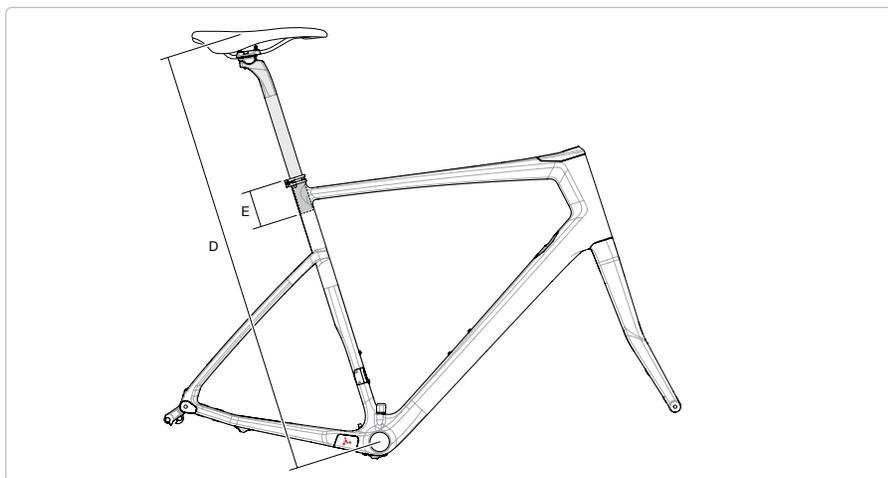


XL



Here are some possible options of how to fit the battery range extender and waterbottle(s) onto the frame's water-bottle-cage mounts, depending on the frame size.

## 22. SEAT POST MIN AND MAX INSERTION



Refer to the table adjacent 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 seat tube.
  - 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 XX-Small Subito frame.
    - » The required minimum seatpost cut length is: 135 - (600-520) = 55mm.
  - E. Minimal insertion depth in the frame's seat tube.

SADDLE HEIGHT LIMIT			SUBITO		
SIZE	SADDLE H MIN.	ST MAX INSERT	SP CUT	SADDLE H MAX.	SP MIN INSERT
UNIT	mm	mm	mm	mm	mm
	A	B	C	D	E
XXS	520	165	135	740	80
XS	550	185	115	770	80
S	585	215	85	805	80
M	620	250	50	840	80
L	655	245	55	875	80
XL	690	285	15	910	80

## **23. ADDITIONNAL DOCUMENTATION**

### **Distributor**

- Subito Distributor Procedure
- Ebike\_Activation\_Guide\_v1.1\_28022019

### **Dealer**

- Dealer APP Manual (EN V1.0)

### **End user**

- iWoc ONE – Quick User Guide (EN-ES-DE-FR-IT-PT v1.1)
- X35 – Care and Maintenance (EN-ES-DE-FR-IT-PT v1.1)
- X35 – Connection and Mount (EN-ES-DE-FR-IT-PT v1.1)
- User Manual – APP (EN.V1.0)
- Web User DashBoard Manual (EN V1.0)