# ARGON 18 🏃







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VALID FOR MODEL YEAR 2022 REVISION 4.0 / 10-20-2021

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For the warranty to be valid, the bicycle must be fully assembled by an authorized Argon 18 dealer. High-end components, such as carbon parts, require extra care during assembly.

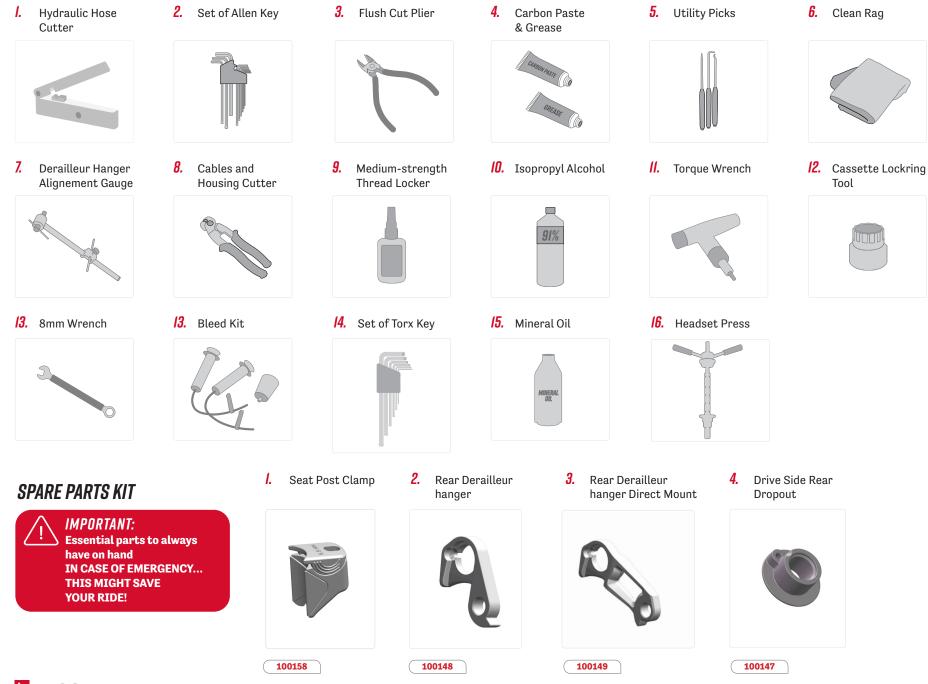
These components must be installed using a torque wrench to ensure each bolt is at the specified torque setting to prevent damage.

Date of Purchase:
Retailer:
Size:
Serial Number:

**MY SUM** 

# SUM PR0 352A / SUM 353A-353B: ASSEMBLY GUIDE

# I. TOOLS NEEDED & SPARE PARTS KIT



# 2. TROUBLESHOOTING / TIPS & SPECIFICATIONS

### **Brakes**

Rear brake - 140/160mm disc rotors Front brake - 140/160mm disc rotors

### **Tire Clearance**

The biggest tires that can be installed are 700x30c, they must be no wider than 32mm, for the front and rear wheels.

### Seat Post

Argon 18 exclusive D shape seatpost is only compatible with the SUM frame.

### Saddle Clamp

The saddle clamp is compatible with both  $\emptyset$  7mm round and oval saddle rail.

### **Bottom Bracket**

BB86 (Press-fit)

### Headset

Top Bearing: MR127 - 1 1/2", 36° x 45° Stainless Steel Bottom Bearing: MR127 - 1 1/2", 36° x 45° Stainless Steel

### Chainring

The SUM family is designed to work with round or oval chainring with 50 to 57 teeth and the equivalent max OD of a 57T chainring.



Please contact customer service at info@argon18.com for any further inquiries.

### Seat Post Collar

Argon 18 exclusive, SUM seatpost clamp is **NOT** the same as the Nitrogen, E-117 and E-119 or any other seat clamp model.

### Power Meter

The SUM is designed to work with the majority of the power meters available on the market.

### For Hub/Wheel based power meters:

The system must be compatible with a 12mm x 142mm rear thru-axle.

Please contact your local Argon 18 authorized retailer for confirmation before purchasing.





# **3.** FRAMESET INSPECTION

### Before assembling your new SUM, please :

- *I.* Check you parts against the frameset parts checklist (see p.8)
- 2. Inspect the frame for cosmetic defects (scratches, bumps, cracks, paint defects, etc.)
- **3.** Record serial number on p.4 for reference.
- **4.** Make sure you have all the necessary bolts (refer to frameset parts, p.8).

**5.** For optimal shifting performance, use a derailleur alignment gauge to make sure that the derailleur hanger is straight.



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.	A18 SKU#	Function	Description	Screw Type	Torque	Detail	Qty
1	81248	Front derailleur hanger screw	M5 x 16mm Screw	Flat head	3 Nm	Grease	2
2	100150	Rear derailleur hanger screw	M3 x 8mm Screw	Flat head	2 Nm	Loctite	1
3	100158*	Seat post clamp top screw	M8 x 10mm Screw	Set screw	5.5 Nm	Grease	1
4	100158*	Seat post clamp bottom screw	M3 x 6mm Screw	Button head	Hand Tighten Slack	Loctite	1
5	100154*	Saddle clamp screw	M5 x 40mm Screw	Socket head	6 Nm	Grease	2
6	80807	Water bottle screw	M5 x 18mm Screw	Socket head	3 Nm	Grease	4
7	100161	Front Thru Axle	M12 x P1.5 x 119mm	n Axle -	15 Nm	Grease	1
8	100160	Rear Thru Axle	M12 x P1.5 x 161mm	n Axle -	15 Nm	Grease	1

### \* Included With



# **For troubleshooting and FAQ, please visit :** https://www.parktool.com/blog/repair-help

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# **4.** FRAMESET SKUS & DESCRIPTIONS

NO.	NAME	AI8 SKU#	<i><b><i>QTY</i></b></i>
1	SUM Pro Frame -OR- SUM Frame	-	1
2	SUM Chain Suck Guard	100145	1
3	SUM Bottom Bracket cover	100146	1
4	SUM Drive Side Rear Dropout	100147	1
5	SUM Rear Derailleur Hanger	100148	1
6	SUM Rear Derailleur Hanger direct mount	100149	1
7	Front Derailleur Hanger removable	81238	1
8	Front Derailleur Plug	81240	1
9	Front Derailleur Cable Stopper	81242	1
10	Long Grommet Mech	80985	2
11	Long Plug	80804	3
12	Long Grommet Di2	80805	2
13	Oblong Cable Guide	80551	1
14	Watter Bottle Screw - M5 x 18mm	80807	4
15	Plastic Plug M5	80264	1
16	SUM Pro Fork (S-M-L-XL), 44mm rake / SUM Pro Fork (XXS-XS), 48mm rake -OR- SUM Fork (S-M-L-XL), 44mm rake / SUM Fork (XXS-XS), 48mm rake	FK.SUMP.S-XL.352A / FK.SUMP.XXS-XS.352A -OR- FK.SUM.S-XL.353A / FK.SUM.XXS-XS.353A FK.SUM.S-XL.353B / FK.SUM.XXS-XS.353B	1
17	SUM Pro / SUM seatpost assembly	-	1
18	SUM Seatpost shaft monocoque carbon (valid for 352A, 353A, 353B)	100151	1
19	SUM Seatpost cradle + top clamp	100153	1 kit
20	SUM Seatpost saddle hardware (Barrel+Bolts)	100154	1 kit
21	SUM Battery Holder set	100155	1 kit
22	3D Headset Column IST2	100156	1
23	3D Headset Column 25mm	100361	1
24	3D Headset Column 15mm	100362	1
25	SUM Seatpost wedge assembly	100158	1
26	Axle GW Rear 161x12 - SB-02 LITE & HOLLOW	100160	1
27	Axle GW Front 119x12 - SB-02 LITE & HOLLOW	100161	1
28	Removable lever for GW thru axle 12mm	81054	1
29	Foam liner for hydraulic hose	80811	3

## **4.1** FRAMESET PARTS



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

# 5. SEATPOST MIN. & MAX. INSERTION



### Refer to the adjacent table for details on saddle height and seatpost insertion limits:

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

- A. Maximum Saddle Height.
- B. Minimum Saddle Height.

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

If the desired saddle height is lower than value "C", Calculate the required cutting lenght "G" as follow:

**G** = **C** – "Desired saddle height " + 10mm (to allow adjustment)

**Example:** For a desired saddle height of 650mm on a Small frame, the required minimum seatpost cut length (G) is:

### G = 686 - 650 + 10 = 46 mm

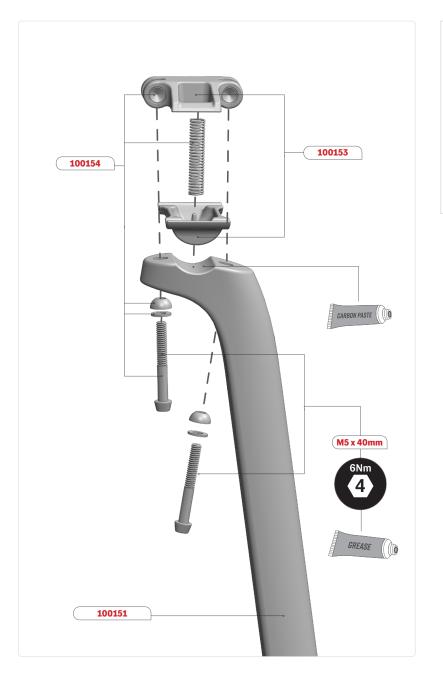
Important: In any case the saddle height can be lower than value "B".

### SADDLE HEIGHT LIMITS (MM)

	SIZE	Max Saddle Height	Min Saddle Height	Min Saddle Height (Without cut)	Min Seatpost Insert	Max Seattube Insert	Max Seat- tube Cut
		Α	В	С	D	E	F
	XX-SMALL	715	565	636	80	150	71
	X-SMALL	745	595	670	80	155	75
	SMALL	780	630	686	80	174	56
	MEDIUM	825	675	688	80	217	13
	LARGE	870	720	720	80	263	0

\*\*Based on saddle with 50mm between center of rail to top.\*\*

# **6**. SEATPOST ASSEMBLY



### The seat post is supplied fully assembled\*

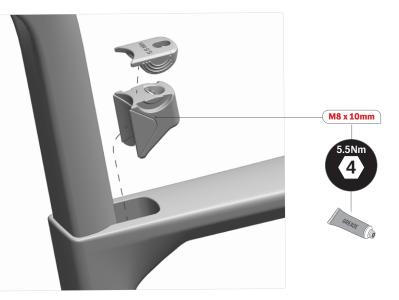
- Loosen the two M5 x 40mm screw to allow the seat post head assembly to move.
- **2.** Apply a drop of blue Threadlocker (n. 242) on the M5 x 40mm screw thread.
- **3.** Apply Carbon paste on the curved face of the seatpost shaft
- **4.** Install the saddle rails into the seatpost clamp.
- **5.** Adjust the angle of the saddle and tighten the M5 x 40mm screw at 6Nm.

# **6.1** SEATPOST INSTALLATION









- **I.** Apply grease on the lower angle surface of the seat post collar.
- 2. Apply a drop of blue Threadlocker (n. 242) on the M3 x 6mm screw thread.
- **3.** Hand tighten the M3 x 6mm screw and make a 1/4 turn back, making sure the wedge (a) is allowed to slide.
- **4.** Apply grease on the thread of the M8 x 10mm set screw.
- **5.** Screw the M8 x 10mm set screw in place.
- **6.** Slide the rubber cover onto the wedge assembly.
- 7 Adjust the angle of the seatpost wedge cover to make it flush with the frame surface.
- **8.** Adjust the seatpost at the desired height. <u>Make sure to follow the seatpost min</u> <u>and max insertion. (p. 10)</u>
- **9.** Insert the wedge assembly into the frame.
- **10.** Tighten the M8 x 10mm set screw of the seat post clamp to 5.5Nm.

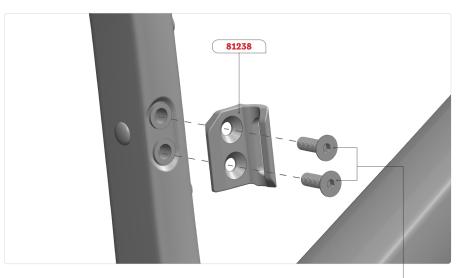
# 7. REAR DERAILLEUR HANGER INSTALLATION



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

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

# 7.1 FRONT DERAILLEUR HANGER INSTALLATION

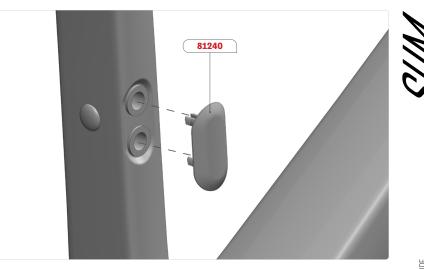


### Using a Double Chainring Set-Up:

- **I.** Apply grease on the thread of both M5 x 16mm screws.
- **2.** Assemble the front derailleur hanger (SKU: 81238) on the frame with the two bolts.
- **3.** Tighten the two M5x16mm screws to 3Nm.

**Note:** The Front derailleur hanger has been designed to work with 50 to 57 teeth round chainrings or oval chainrings with an equivalent max OD of a 57T round chainring.

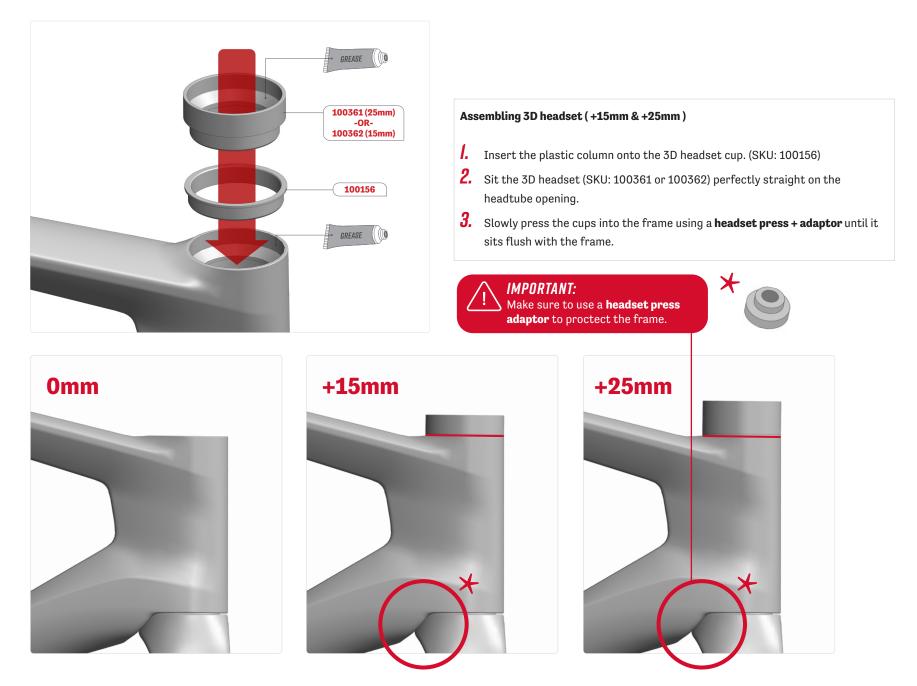




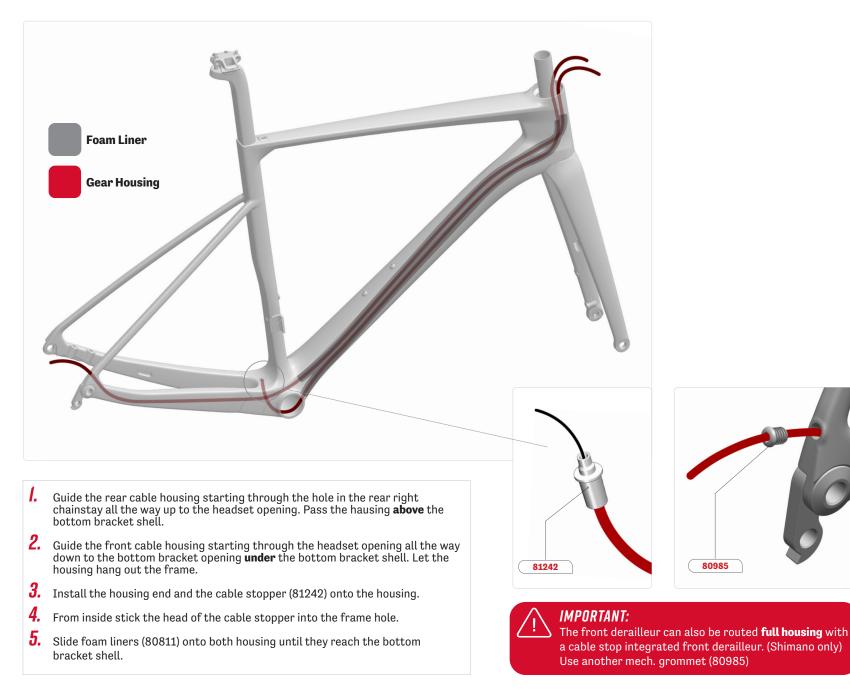
### Using a Single Chainring Set-Up:

**I**. Insert the plastic plug (SKU: 81240) onto the front derailleur hanger inserts.

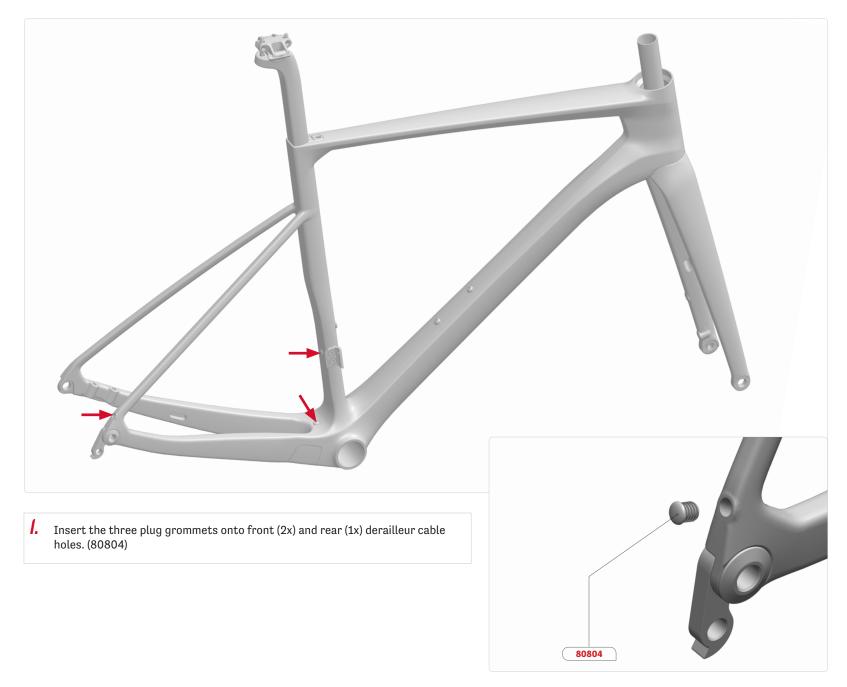
# 8. 3D HEADSET ASSEMBLY



# **9.1** FRAME ROUTING - MECHANICAL

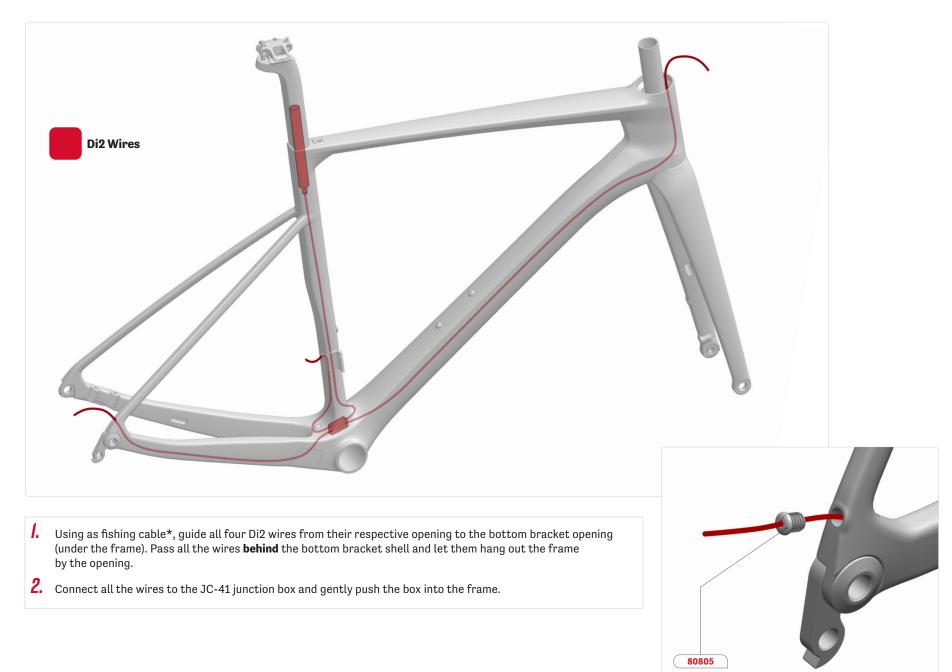


# **9.2** FRAME ROUTING - ETAP



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# **9.3** FRAME ROUTING - DI2

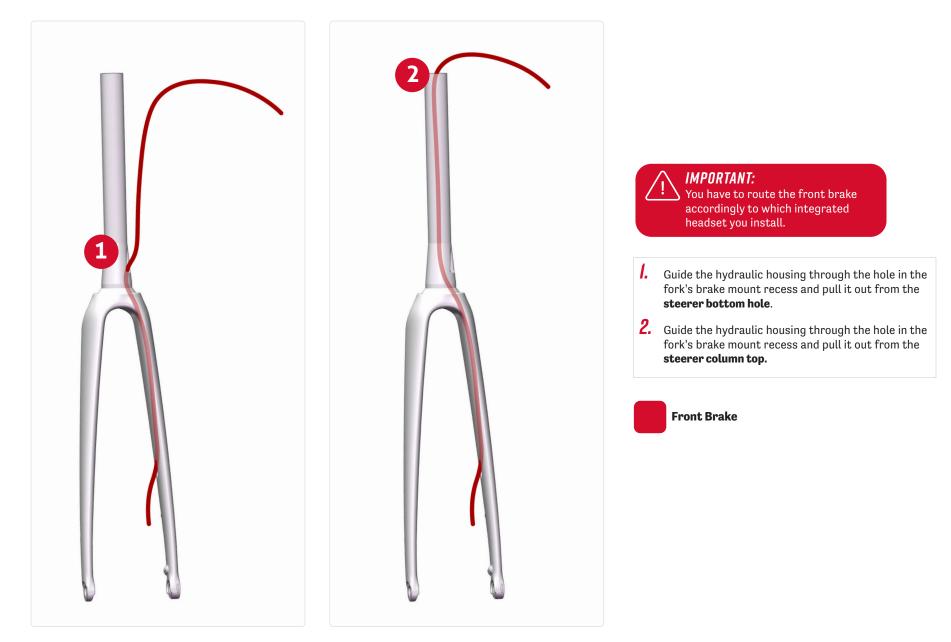


# 9.3 FRAME ROUTING - DI2

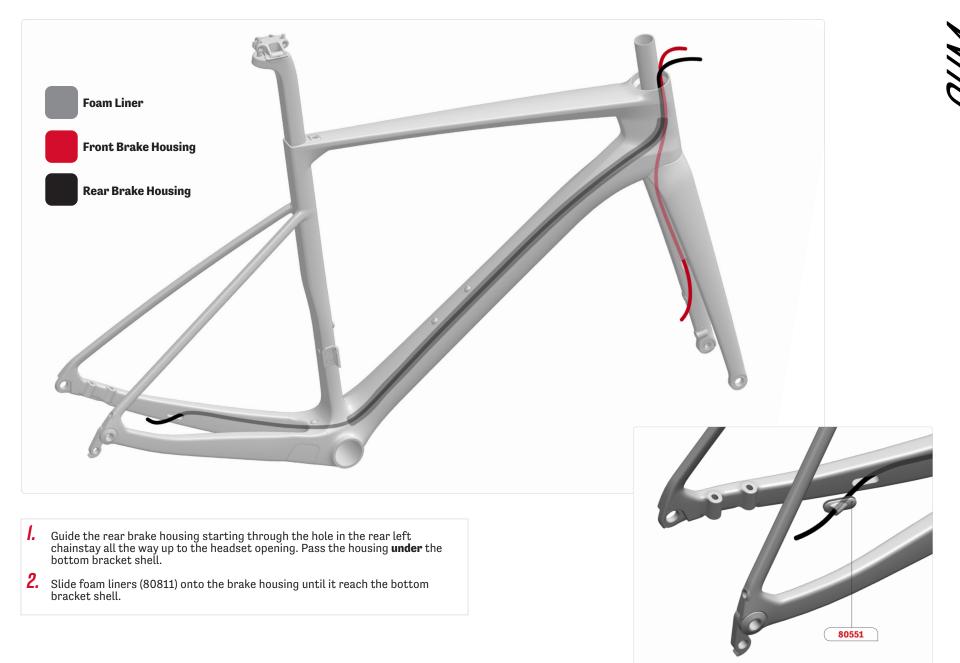


- **1.** Wrap the battery holder around the Di2 battery.
- **2.** Connect the battery to the system.
- **3.** Insert the battery inside the seatpost shaft until the lips sits on the bottom of the shaft.
- **4.** Insert the Di2 grommets onto front and rear derailleur wires. (80805)

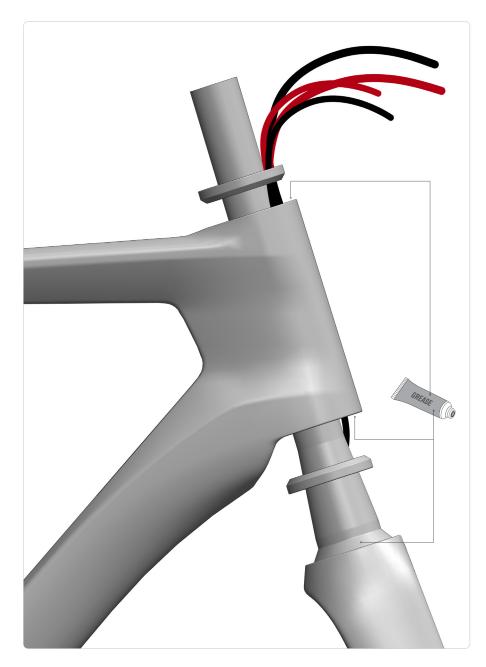
# **10.1** FRONT BRAKE ROUTING



# **10.2** REAR BRAKE ROUTING



# **II. FORK ASSEMBLY**





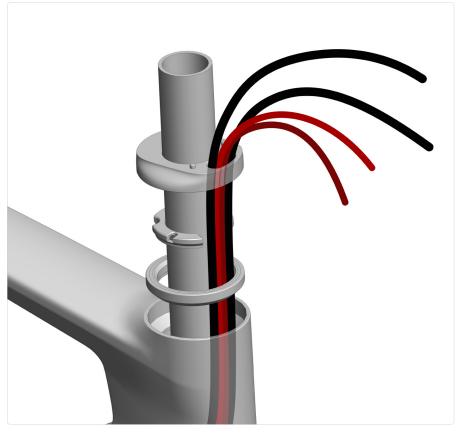
- **I.** Apply grease onto all the surfaces where bearing sit (frame & fork)
- **2.** Insert the fork steerer and front brake housing **through** the bottom bearing (MR127).
- **3.** Slide the fork steerer into the frame headtube.
- **4**. Insert the top bearing (MR127) onto the steerer and into the frame.
- **5.** Pass every housing and/or wires **through** the top bearing.

# **12.** BOTTOM BRACKET COVER INSTALLATION



**1.** After installing all the cables routing, insert the bottom bracket cover.

# **13.1** ROUTING - ACR INTEGRATED COCKPIT SYSTEM



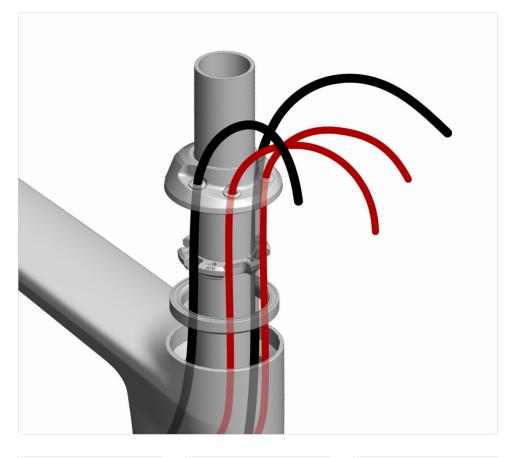


Gear Hausing

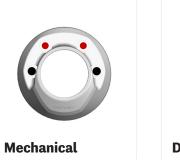
Brake Hausing

\*Integrated headsets are not included in the frameset.

# **13.2** ROUTING - TOKEN INTEGRATED COCKPIT SYSTEM













Brake Housing

\*Integrated headsets are not included in the frameset.