



Valid for MY2017-MY2018 Nitrogen 231A/231B  
Revision 6.1 - 28-01-2019



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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, particularly carbon parts, need extra care when assembled. Those components must be installed using a calibrated torque wrench to make sure every bolt is at the right torque setting to prevent damage.*

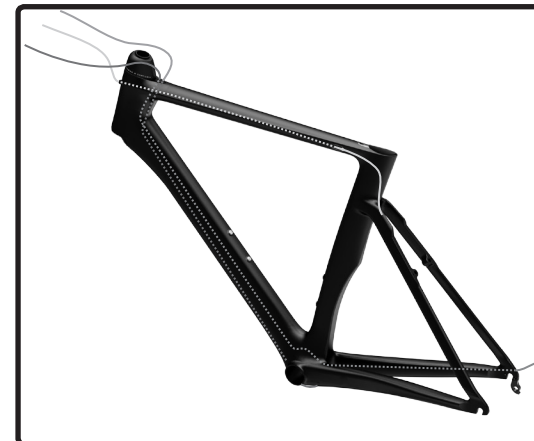
**IMPORTANT:** No more than 30mm of spacer can be place between the stem and the top cap of the 3D system. And the use of more than 5mm spacer on top of the stem could void the efficiency of the compressor. These practices will automatically cancel any warranty claim against the manufacturer.



**1. Frame inspection**



**2. Headset installation**



**3. Cable housing installation**

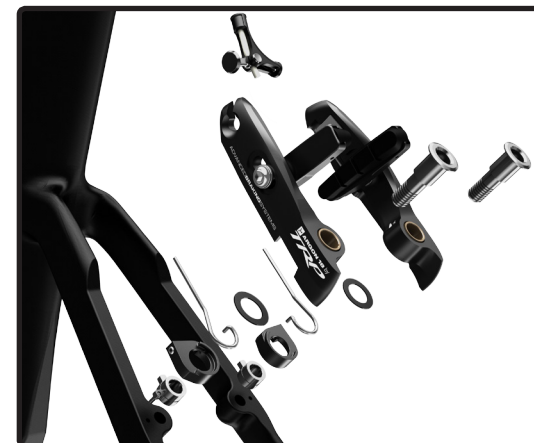
IMPORTANT NOTICE: It is easier to install the cable housings before the bottom bracket, crank & fork.



**4. Electronic drive train specification**



**5. Front brake installation**



**6. Rear brake installation**



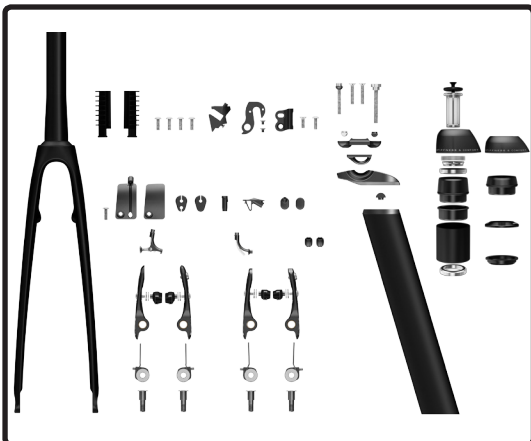
7. Seatpost installation



8. Seatpost adjustment



9. Derailleur hanger adjustment



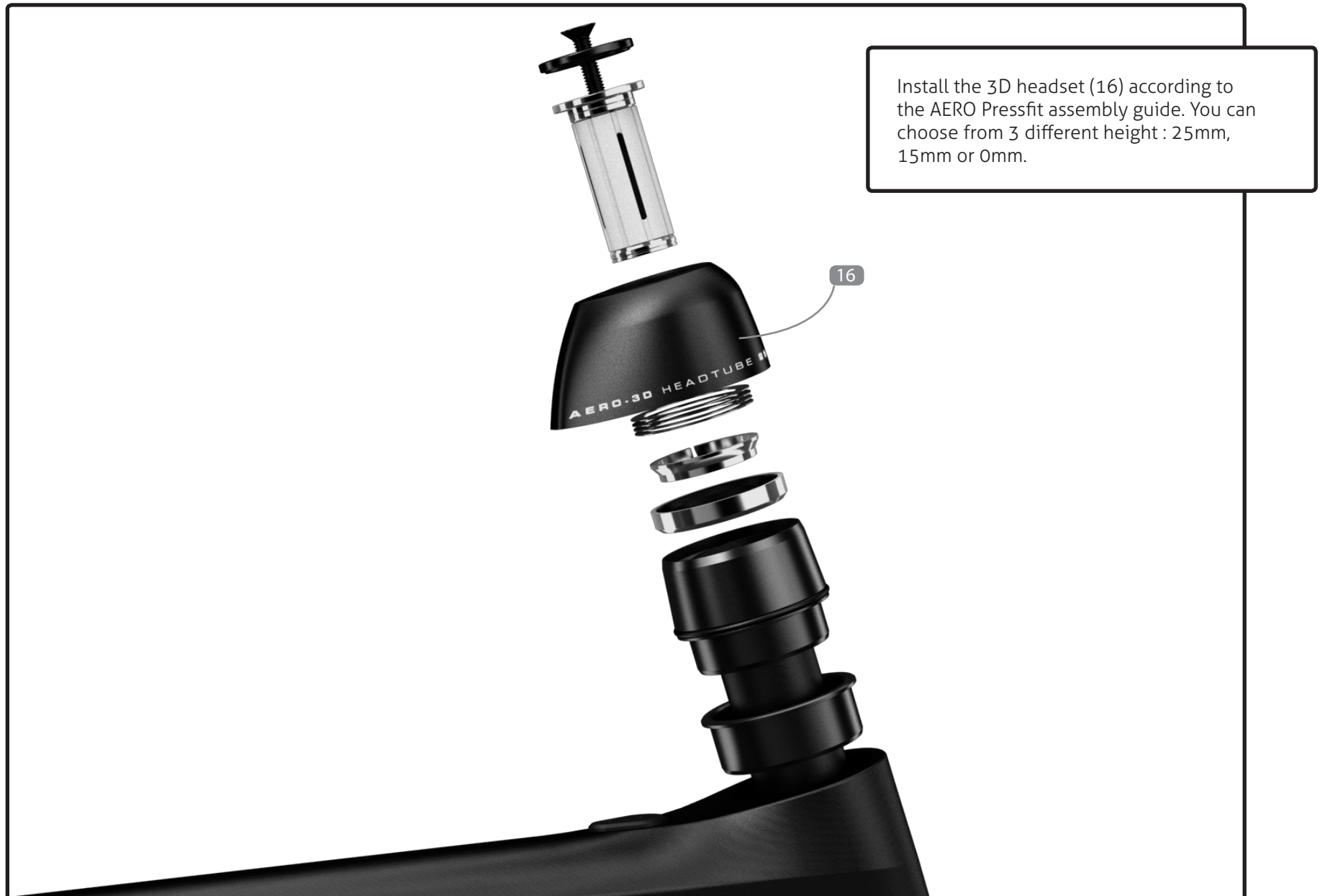
10. Part listing





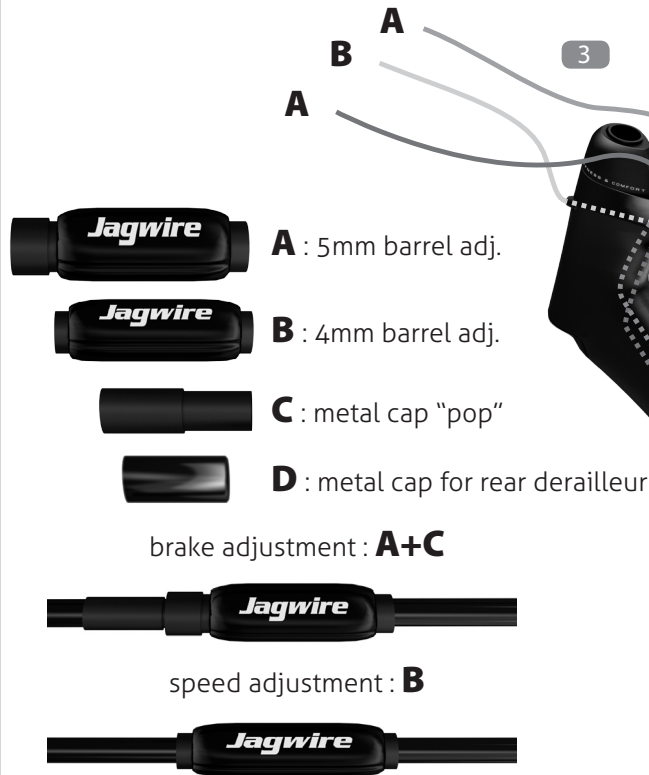
When assembling a new frame, be sure to check if the following parts are assembled correctly.

Parts installed on the frame			Description	Screw type	Tork Nm	Detail
1	Front derailleur hanger	Screw (2)		3mm	4Nm	Loctite
2	Rear derailleur hanger	Screw (2)		3mm	4Nm	Loctite
3	Bottle cage	Screw (4)		4mm	3Nm	Grease
4	Bottom bracket cable guide	Screw		5mm	3Nm	Grease





brake and speed adjustment



1. Install the rear derailleur cable housing starting at the drive side's drop-out until it comes out in the top tube.

2. Install the front derailleur cable housing starting under the bottom bracket shell.

3. Install the rear brake cable housing (see page 8 for details). Use supplied Jagwire housing (KEB).

*Note: For maximum braking performance it is strongly recommended to use the non-compressible jagwire KEB housing (Jagwire 5mmKEB-SL / RCK###).*

See the table below for the cable housing length suggested.

### Suggested lengths of the cable housing

housing/size	XS	S	M	L
Front brake	40cm	45cm	50cm	55cm
Rear brake front section	30cm	35cm	40cm	45cm
Rear brake rear section	20cm	20cm	20cm	25cm
Front derailleur	110cm	110cm	120cm	125cm
Rear derailleur	185cm	190cm	195cm	200cm

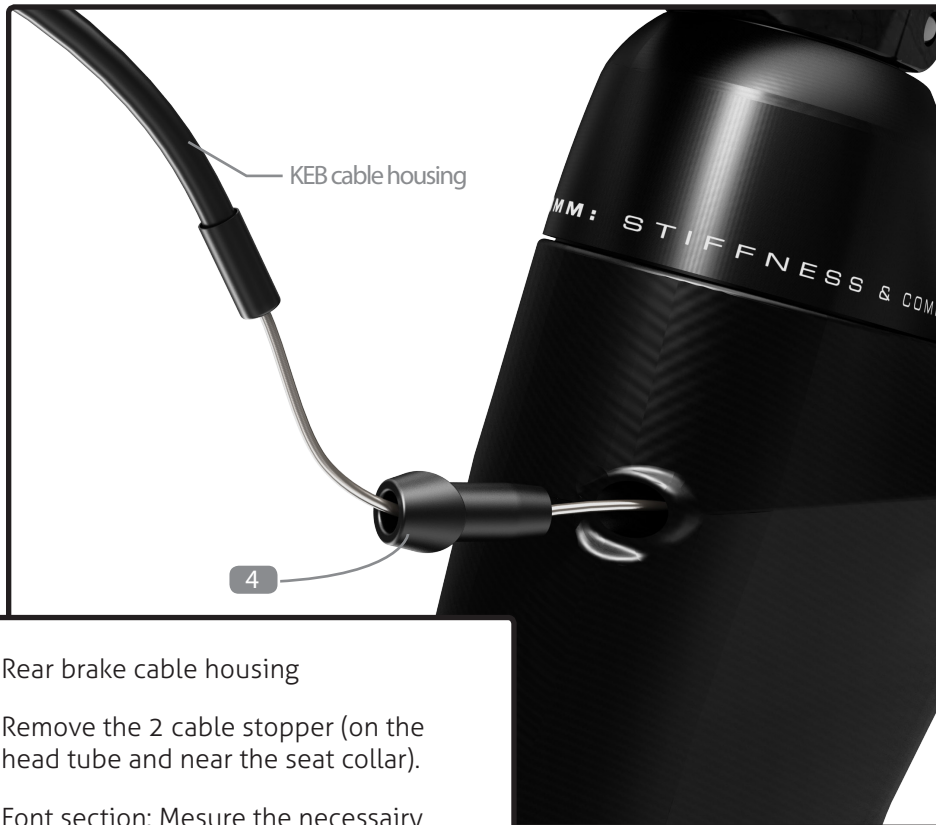
*It's better to install cables housing before installing the bottom bracket, crank and fork.*



Note: The front brake cable guide (17h) should be front oriented to ensure a good rotation of the handle bar.



Pass the cable through the cable guide (17h).  
Create a "hook" with the cable, it will be easier to pass it inside the retainer nut.



## Rear brake cable housing

Remove the 2 cable stopper (on the head tube and near the seat collar).

Font section: Measure the necessary cable housing to ensure a proper rotation of the handlebar. Insert the "KEB" cable housing and the cable trough the top tube.

Rear section: With a magnet, get the rear brake cable out of the frame, and pass it trough the rear cable stopper. Measure the "KEB" rear housing correctly to avoid interference with the rider's left leg.





*It's better to install the cable housing before installing the bottom bracket, crank and fork.*

Rear derailleur: Pass the cable housing inside the frame starting at the rear derailleur hanger until it comes out the top tube.

Front derailleur: Remove the cable guide (9) under the bottom bracket. Pass the cable housing inside the downtube until it comes out the top tube.

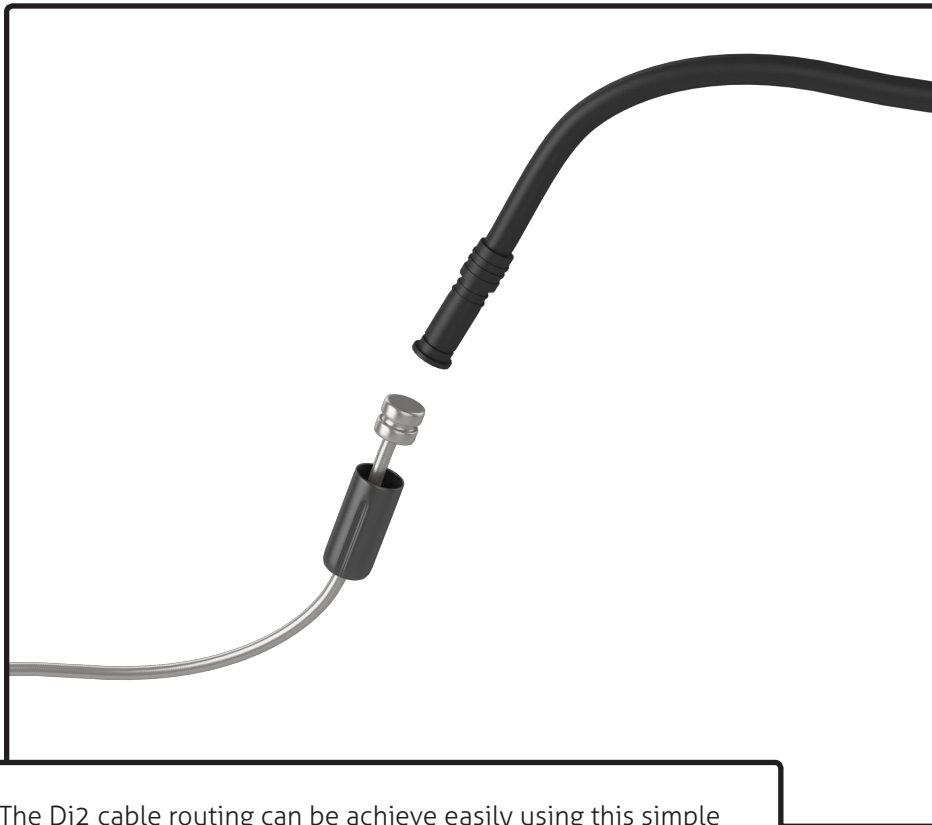
Add a plastic cap at the end of the housing, pass the rear derailleur cable inside the housing and fix the cable guide under the bottom bracket with the 5mm screw (1.5 Nm).

For a Di2 configuration, use the bottom bracket dedicated cover (10) for electric shifting.





Use the provided grommet (19) to fix correctly the rear derailleur cable in the chainstay (mechanical drive train only).



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

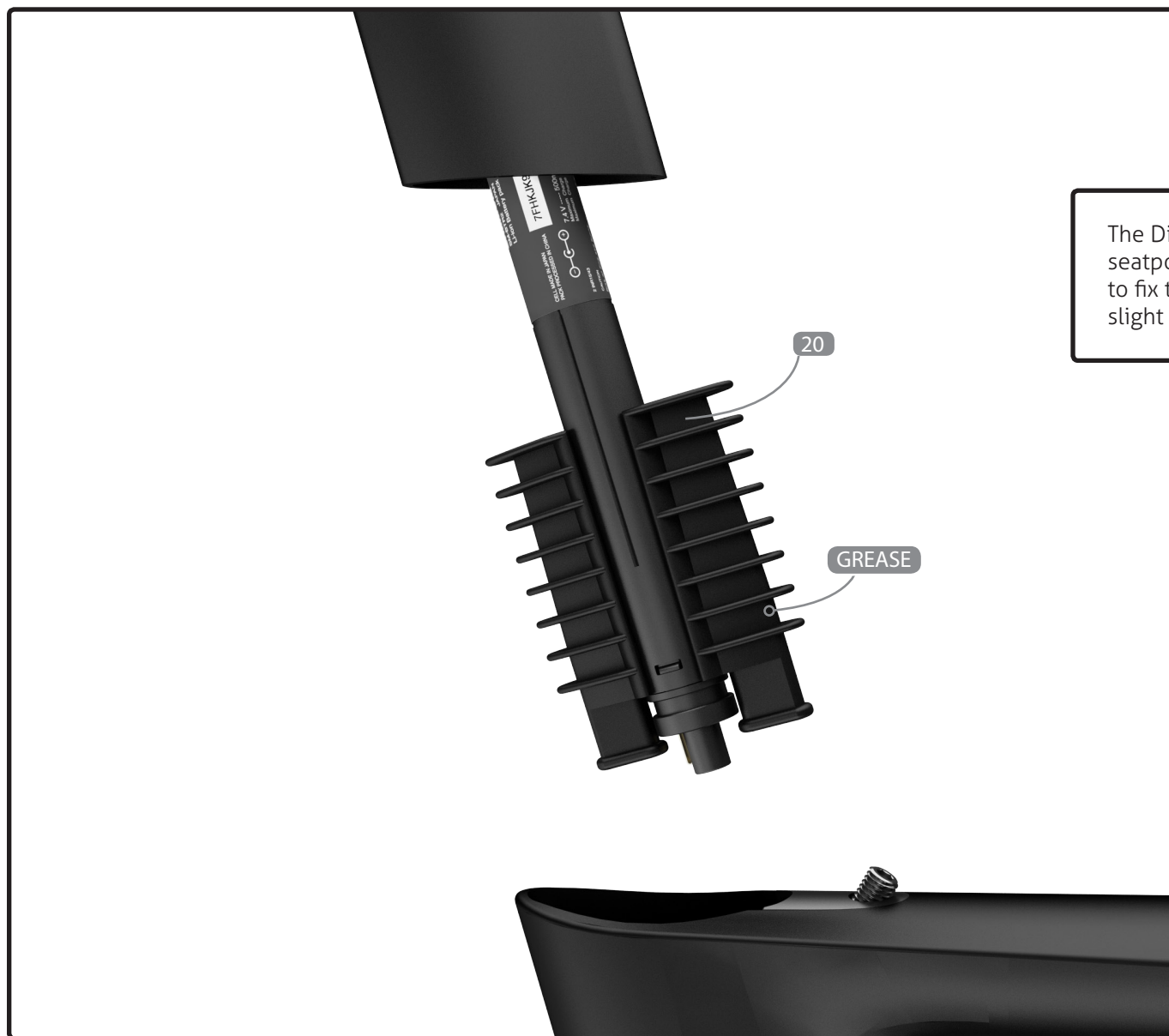


Use the proper gromet on the top tube to fix the cable correctly (depending if you use electronic shifting or mecanical drive train).

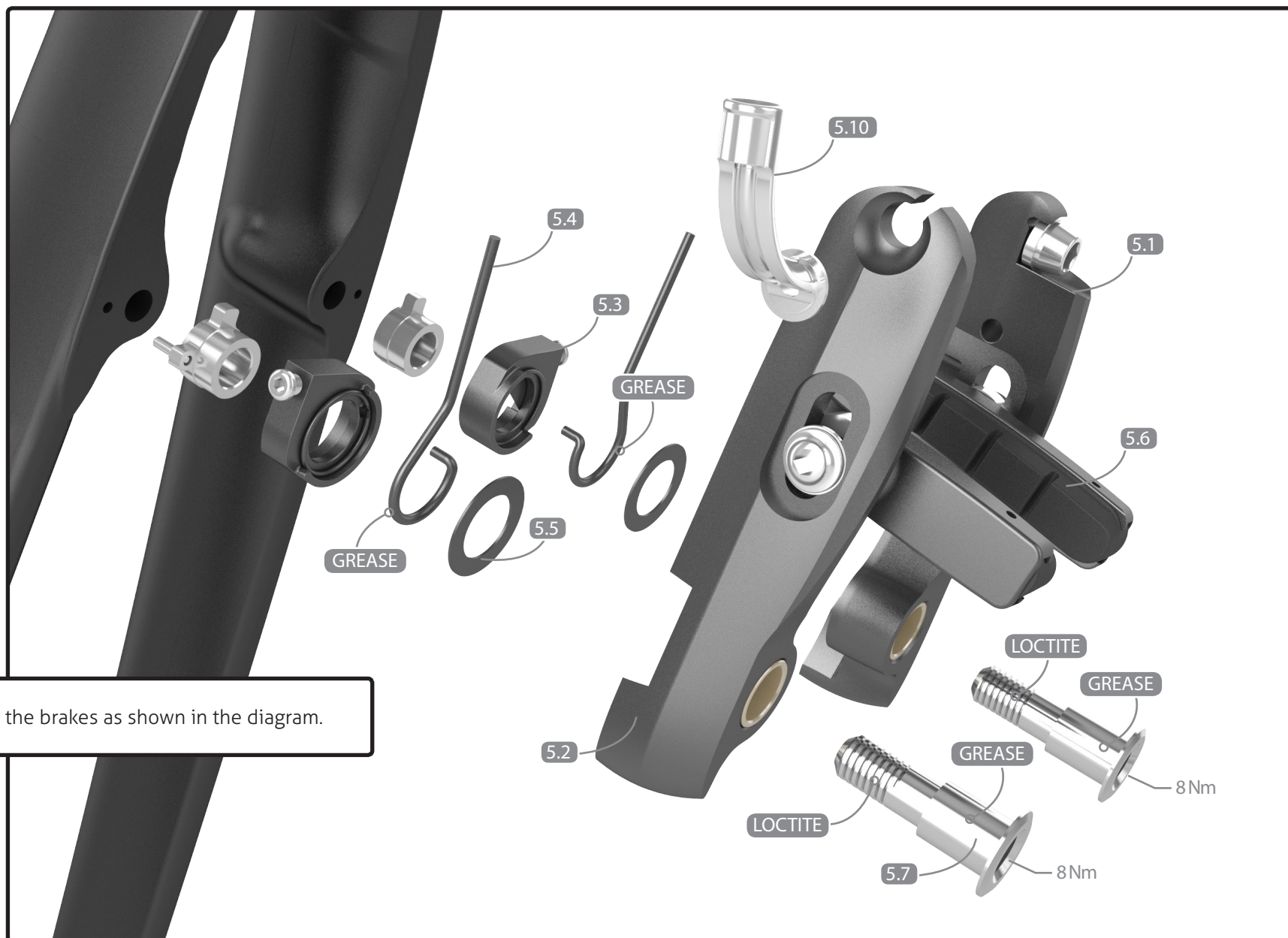




When using an electronic drive train, use the gromet (13) to fix the front derailleur cable.



The Di2 battery is hidden in the seatpost, use the 2 battery holder (20) to fix the battery correctly. Apply a slight amount of grease on both parts.







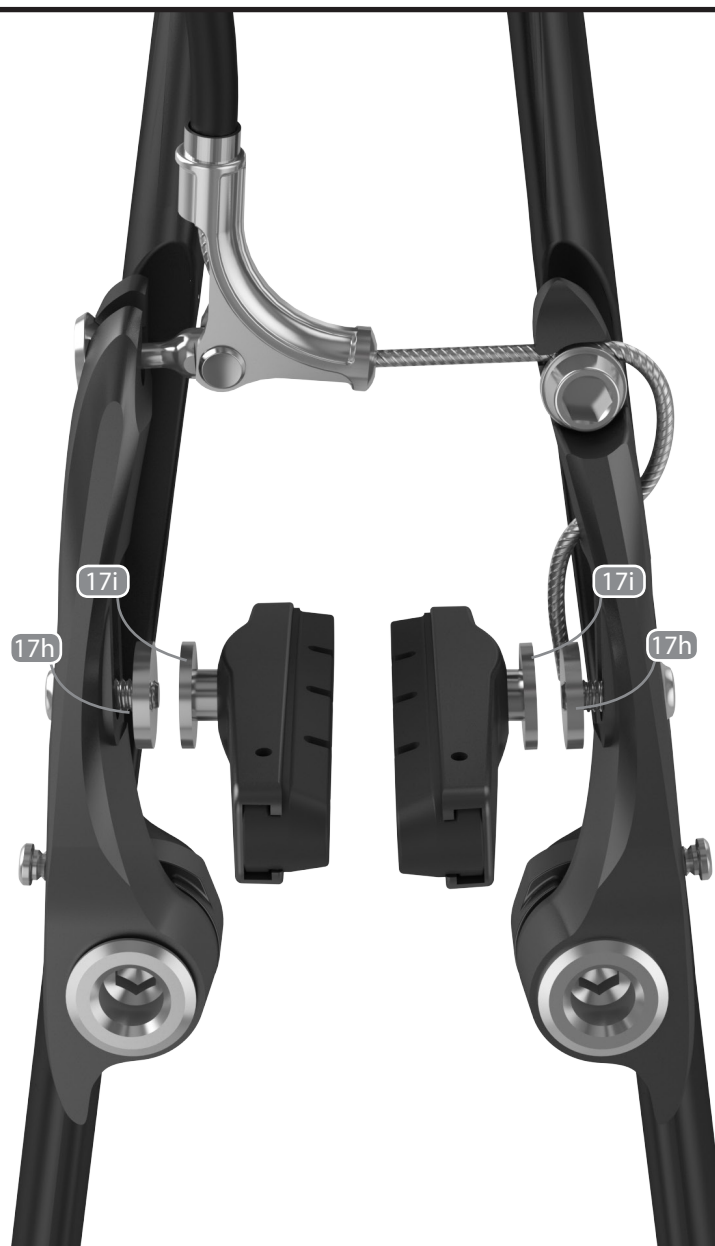
Adjust brake pads according to the width of your rims:

Pass the cable through the curved straw and then in the appropriate guide.

Fix the cable to the caliper with the 6mm screw and tighten it to 6Nm.







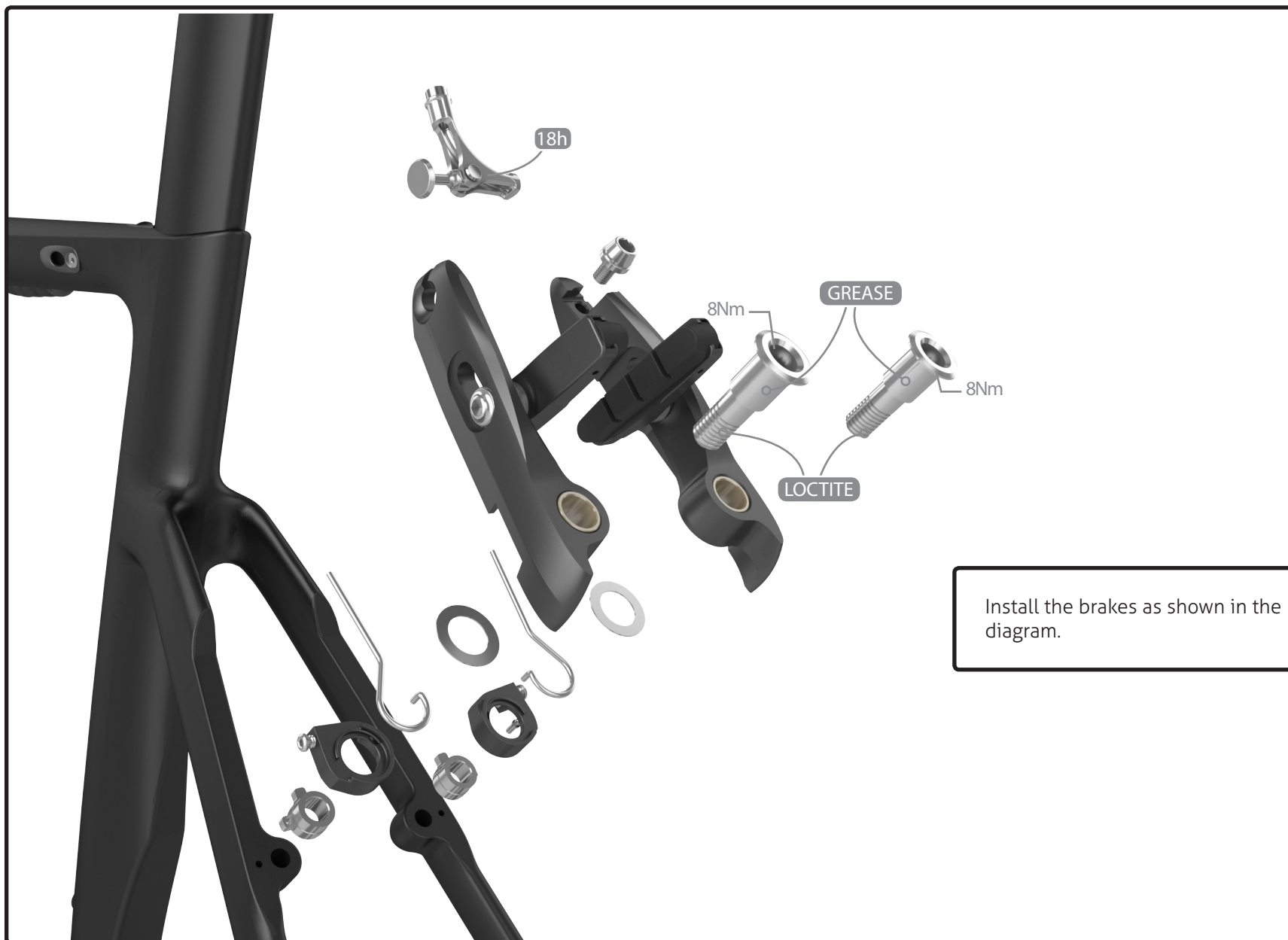
IMPORTANT : If the brake pad spacing is too thick, the brake arm can rub on the frame down tube. Make sure the pads spacing is appropriate.

Adjust brake pads according to the width of your rims:

- You can configure the brake pads spacers with 1mm (17h), or 2mm (17i) depending of the rim width you are using.

### Spacers required according to the rim width

Rim width	Spacer combinaison
19mm (e.g.: Shimano C50)	2mm spacer
24mm + (e.g.: 808 clincher/Enve)	1mm spacer (thin pad may be required)





Adjust brake pads according to the width of your rims:

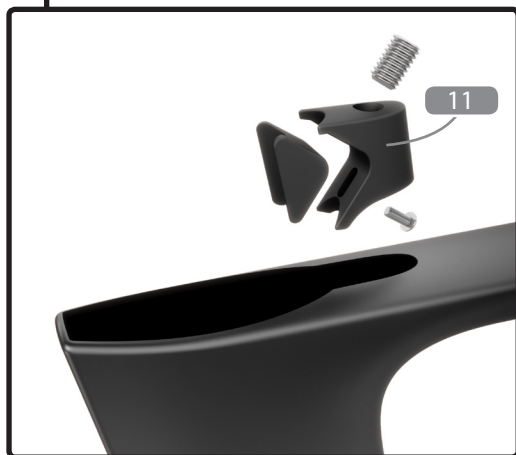
Pass the cable through the cable guide. Make sure that the length of the cable housing is sufficient for the guide to remain horizontal as it can cause interference with the rear wheel tire.

Use the proper brake pad spacers depending on the width of your wheels rims.

Fix the cable to the caliper with the 6mm screw and tighten it to 6Nm.



### RUNNING CHANGE



CARBON FIBER  
ASSEMBLY  
COMPOSITE

1. Place the seat post collar inside the frame.
2. Insert the seatpost (3) on which some carbon fiber assembly gel has been applied.
3. Position the seatpost to the desired height.
4. Apply a drop of blue Threadlocker (n. 242) on the bolt's thread
5. Tighten the set screw at max. 5.5Nm while leaving a space between the two parts allowing them to slide.

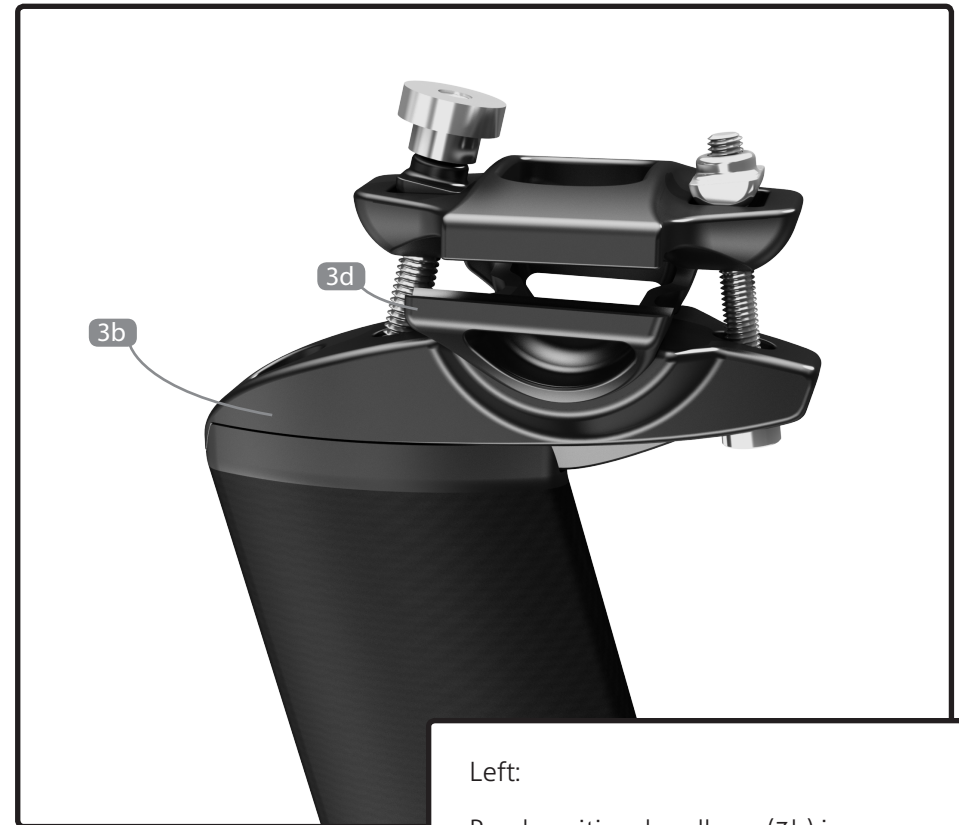
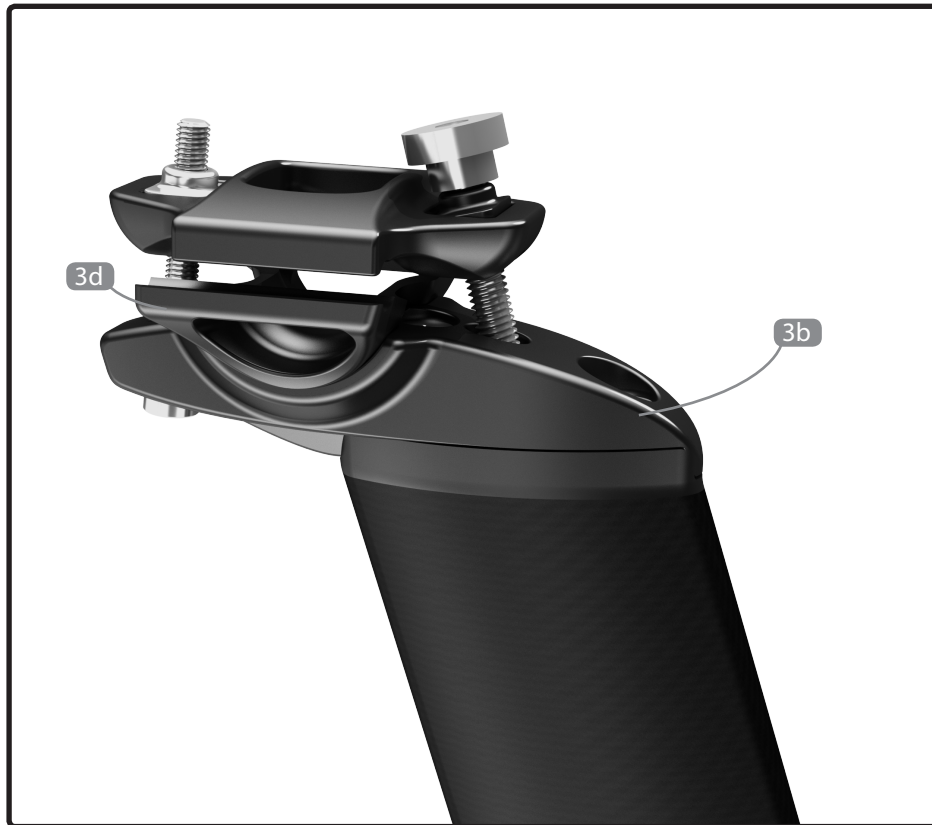


8.1 Install the saddle on the rocker (3d) and tighten the rail clamp (3e) up to 6Nm using the half-moon bolt (3k).

8.2 Adjust the angle and the offset of the saddle by hand tightening the thumb screw (3j).

8.3 The rocker (3d) can be flipped to change the saddle offset (+ / - 5mm).

8.4 The seatpost head base (3b) can also be flipped to achieve a TRI position. First remove the half-moon bolt (3k) and the thumb screw (3j), remove the top and bottom clamp (3d & 3e) to get access to the 2 head base screw (3c). Unscrew the screw to remove the head base (3b) and flip it to change the offset.



Left:

Road position: headbase (3b) is rear facing, setback offset (-17.5mm to -22.5mm) by flipping the bottom clamp (3d).

Right :

Tri position: headbase (3b) is front facing, setback offset (+30mm to +40mm) by flipping the bottom clamp (3d).



The front derailleur hanger (6) can be adjusted according to the front derailleur angle in order to get an equal curve between the derailleur and the big chain ring. Once at the right angle, use blue 242 LockTite and screw both screws in at 4Nm.

LOCTITE

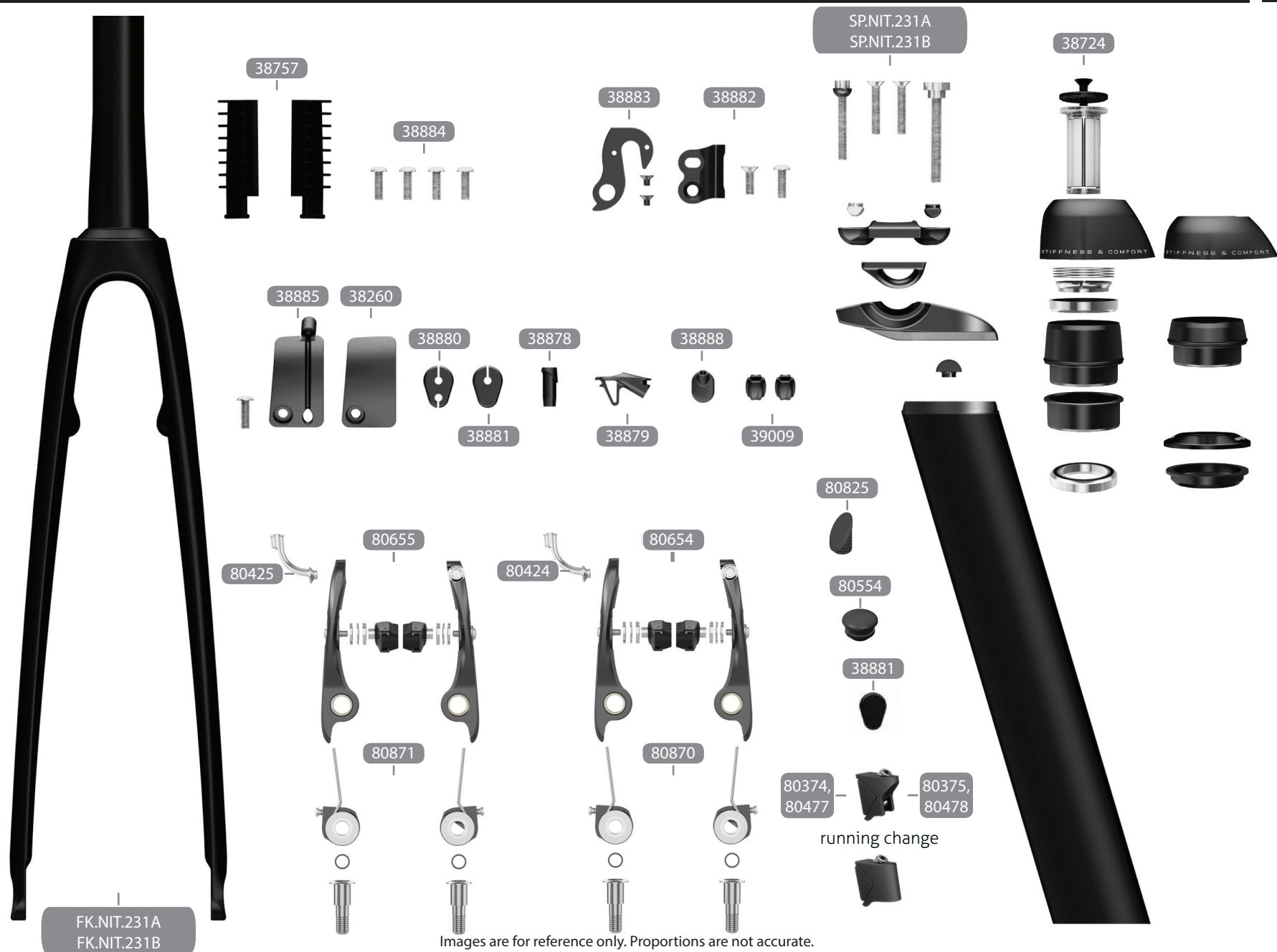
LOCTITE

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# NITROGEN 231A/231B: 10. Parts' SKUs and Descriptions

**ARGON 18**



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

# NITROGEN 231A/231B: 10. Parts' SKUs and Descriptions\* **ARGON 18**



No.	Name	Assembled on	A18 SKU#	Qty
<b>Parts already assembled</b>				
8	Rear Derailleur Hanger (incl. screws)	Frame	38883	1
6	Front Derailleur Hanger (incl. screws)	Frame	38882	1
9	BB Cable Guide (incl. screw)	Frame	38885	1
7	Bottle Cage Screws	Frame	38884	4
<b>Parts</b>				
1	Nitrogen Frame	-	-	1
2	Nitrogen Fork	-	FK.NIT.231A	1
			FK.NIT.231B	1
3	Nitrogen Seat Post Assembly (ASP-5000)	-	SP.NIT.231A	1
			SP.NIT.231B	1
4	Head Tube Brake Cable Stopper	Frame	38878	1
5	Top Tube Cable Stopper	Frame	38879	1
10	BB Cover (incl. screw)	Frame	38260	1
11	Seat Clamp Base (incl. screw)	Frame	80375, 80478	1
12	Seat Clamp Wedge (incl. screw)	Frame	80374, 80477	1
13	Di2 Cable Grommet	Frame	38888	1
14	Mechanical Cable Grommet (Top Tube)	Frame	38880	1
15	Di2 Grommet (Top Tube)	Frame	38881	1
16	3D Headset Assembly	Fork	38724	1
17	Front Brake Assembly	Fork	80654	1 Set
18	Rear Brake Assembly	Frame	80655	1 Set
19	Chainstay Cable Grommet	Frame	39009	1 Set
20	Internal Di2 Battery Support	Seat Post	38757	1 Set
	8mm Wrench for Seat Clamp	-	38543	1
	Front Brake Cable Guide (noodle)	-	80424	1
	Rear Brake Cable Guide (noodle)	-	80425	1
	TKB137-2/TKB138-2/TKB138-3 spring kit	-	80871	1 Set
	TKB137-2/TKB138-2/TKB138-3 spring holder kit	-	80870	1 Set
	Rear derailleur plug for eTap	Frame	80825	1
	Round plug	Frame	80554	1
	Top tube plug	Frame	38881	1

\*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.

# NITROGEN 231A/231B: 10. Parts' SKUs and Descriptions

**ARGON 18**



No.	Name	Assembled on	A18 SKU#	Qty
<b>Parts</b>				
21	Derailleur and Brake Cable Housing Kit	Frame	39014	1
	Brake cable/housing kit includes:			
	KEB Housing		INCL.	1
	End Caps		INCL.	2
	End Caps		INCL.	1
	End Caps		INCL.	2
	Cable		INCL.	2
	Barrel Adjuster		INCL.	2
	Derailleur cable/housing kit includes:			
	LEX40-SL Housing		INCL.	1
	End Caps		INCL.	2
	End Caps		INCL.	2
	Cable		INCL.	2
	Barrel Adjuster		INCL.	2