



TECHNICAL MANUAL
E-TROY & E-SPARTAN





PLEASE READ BEFORE USING YOUR BIKE

Even if you have already piloted a bike for years, it is important to be aware of the information contained in the User's Manual and the Specific Manual PAB (Power-Assisted Bike). Read them carefully before riding your E-Spartan, E-Troy or EP:

- These documents contain important information.
- Understand the use, layout and maintenance of each electrical components of your new PAB.

Your safety and those of other is paramount:

- Never ride the bike without its battery; the battery must be on the bike when you head out, otherwise there will be no lights on the bike.
- Never ride the bike without a saddle; failure to comply with this rule could lead to accidents.
- Inspect your bike to make sure there are no loose screws or components or damages. In the event of a defect, visit your authorized Devinci retailer for a repair.
- A PAB is faster than a normal bike, risks of accident with other users on the road may occur.
- Ride under the conditions mentioned in the Owner's Manual.
- For PAB's that have a rear rack: the limit is 20 kg.

The electrical system requires careful handling:

- Do not clean the bike with a high-pressure jet. The system is sensitive to moisture. High-pressure water may seep into the connectors or other parts of the electrical system.
- Handle the battery carefully and pay attention to electric shocks. Failure to comply with this instruction could lead to abnormal heating or severe damage. In very rare cases, the consequences of an electrical shock could lead to a fire. In case of doubt, have the battery inspected by an authorized Devinci retailer.

Perform maintenance of the battery as mentioned in the Technical Manual.

*** NOTE: Failure to follow the instructions below may damage the battery and require you to purchase a new battery kit.**

- Charge the bike with the Shimano charger only;
- When the battery is not used for a long time, recharge to 100% (from 4 to 5 LEDs on the charge indicator);
- Check the battery charge status regularly when not in use, recharge it to 100% if the load is less than 20% (1 indicator light on the charge gauge). Check the load every month and have it fully charged every 6 months;
- It is not recommended to keep the battery connected to the charger for a long period;
- If the battery remains uncharged for a long time, it can lose a significant part of its effectiveness;
- Store the battery in a well-ventilated and dry place. Pay attention to moisture;
- In case of poor conditions, remove the battery from the bike and store it in a dry place until next use;
- The battery can be stored at temperatures between -100C and 400C. For long service life, store it at a temperature close to 200C;
- Monitor the storage temperature and try to avoid discrepancies. For example, do not leave the battery in your car during summer or leave the battery outdoors during a storm in winter;
- It is recommended to store a battery which is not connected to the bike.

Follow the transport instructions for your PAB:

- Comply with local laws regarding transportation on the PAB;
- A PAB is heavier than a normal bike, so you must be careful when transporting it. Check that the maximum load of the rack, roof or bike rack used is respected. Refer to the support manual used;
- The Li-Ion battery of your PAB, due to its size, is considered a "Class 9 dangerous good" during transport. Applicable regulations could limit transport of a separate Li-Ion battery (when the battery is not on the bike) in some places. This regulation applies to several airlines and a number of road transport companies. On the other hand, if you are planning to move around with a full PAB (when the battery is on the bike), regulations are less strict. In case you use these transport methods, check the regulations that apply to your PAB with your transport company before booking.

Visit your authorized Devinci retailer for regular maintenance of your new PAB:

- Only your retailer has the know-how and the proper equipment to maintain your PAB.
- If you have any question about your PAB, please ask for assistance from your retailer.



ABOUT OUR MANUALS

Our user manuals meet ISO 4210-10TS, EN 15194 et EN 14766 standards.

Like many sports, cycling involves risk of injury and accidents, so you must be fully aware of these risks. Neither the manufacturer, the retailer, nor the person who sold you the bike, nor the people who maintain the trails are responsible for these risks. As you are solely responsible, it is, therefore, essential that you read and fully understand all the parts contained in this manual.

To enjoy maximum safety and enjoyment right from the get go, it is important that you are familiar with your new bike, its handling and its possibilities. It is your duty to maintain your bike well and reduce the risk of injury. Biking can be a dangerous activity, even under the best conditions. These are risks associated with using a bicycle that cannot be predicted or avoided. These are the sole responsibility of the cyclist.

YOUR AUTHORIZED DEVINCI RETAILER

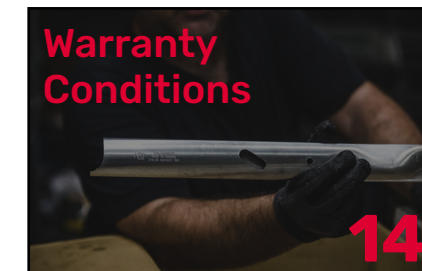
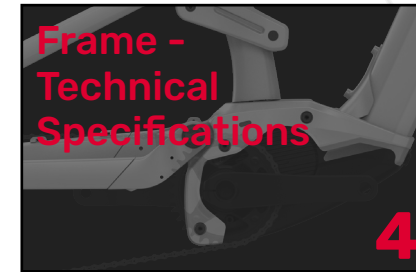
Your authorized Devinci retailer is at your service to guide your choices of bike and accessories which are best suited to the style of biking you wish to perform. This will help you maintain your equipment in good condition so that you can take full advantage of your investment. The staff at your authorized Devinci retailer have the training, experience and tools to carry out the repairs and provide you with reliable advice.

However, your authorized Devinci retailer cannot make decisions for you, and cannot be held responsible for your lack of knowledge, experience, qualification or common sense. However, it will take the necessary time to explain the operation of a component or to help you choose an accessory that meets your specific needs.

For further information, please see the User Manual that you are currently reading and the Shimano STEPS EP800 & E7000 series user manual available on <http://si.shimano.com/>, or you can ask your authorized Devinci retailer. He will take the time to answer any questions you may have and will advise you with great pleasure.



TABLE OF CONTENT





FRAME

Technical Specifications

HEADTUBE DIMENSIONS		
1. UPPER (S.H.I.S)	ISIS52	1.5" IS
2. LOWER (S.H.I.S)	ZS56	1.5" Zerostack
BOTTOM BRACKET		
3. STANDARD	Mid-Drive Motor	
ELECTRIC ASSIST SHIMANO (Configuration 1)		
3. DRIVE UNIT	DU-EP800	
4. BATTERY MOUNT	BMZ V10	
5. BATTERY	BMZ V10	
6. SPEED SENSOR TYPE	SM-DUE11	
7. DRIVE UNIT COVER	Custom	
MECHANICAL DRIVETRAIN (1X)		
8. REAR HUB SPACING O.L.D. (Over Locknut Dimension)	TA 12 x 148 BOOST	
9. MAXIMUM & MINIMUM CHAINRING	38T	34T
10. SMALLEST COG COMPATIBLE	12s 9T	
11. BIGGEST COG COMPATIBLE	12s 52T	
12. MAXIMUM & MINIMUM RECOMMENDED CHAINLINE	53mm	53mm
13. MINIMUM Q-FACTOR	175mm	
TUBE ET COLLET DE SELLE		
14. SEATPOST OUTSIDE DIAMETER (OD)	34.9mm	
15. SEAT TUBE OUTSIDE DIAMETER (OD)	38.6mm	
FREINS		
16. BRAKE MOUNT (FRAME)	Post Mount 200mm Direct	
17. MAX ROTOR SIZE COMPATIBLE (FRAME)	220mm	
18. WATER BOTTLE (FRAME)	YES	
	NOTE: A bottle of 16 oz fit every size	
19. PROTECTORS	YES	

* DISCLAIMER: We are testing many different tires to establish a clearance number that cover a wide spectrum of tires with appropriate frame clearance. However, it is impossible for us to test all tires and rim combination available on the market, so be mindful that some combinations may result in slight rubbing if higher than 66mm in actual width.

Available sizes
S | M | L | XL

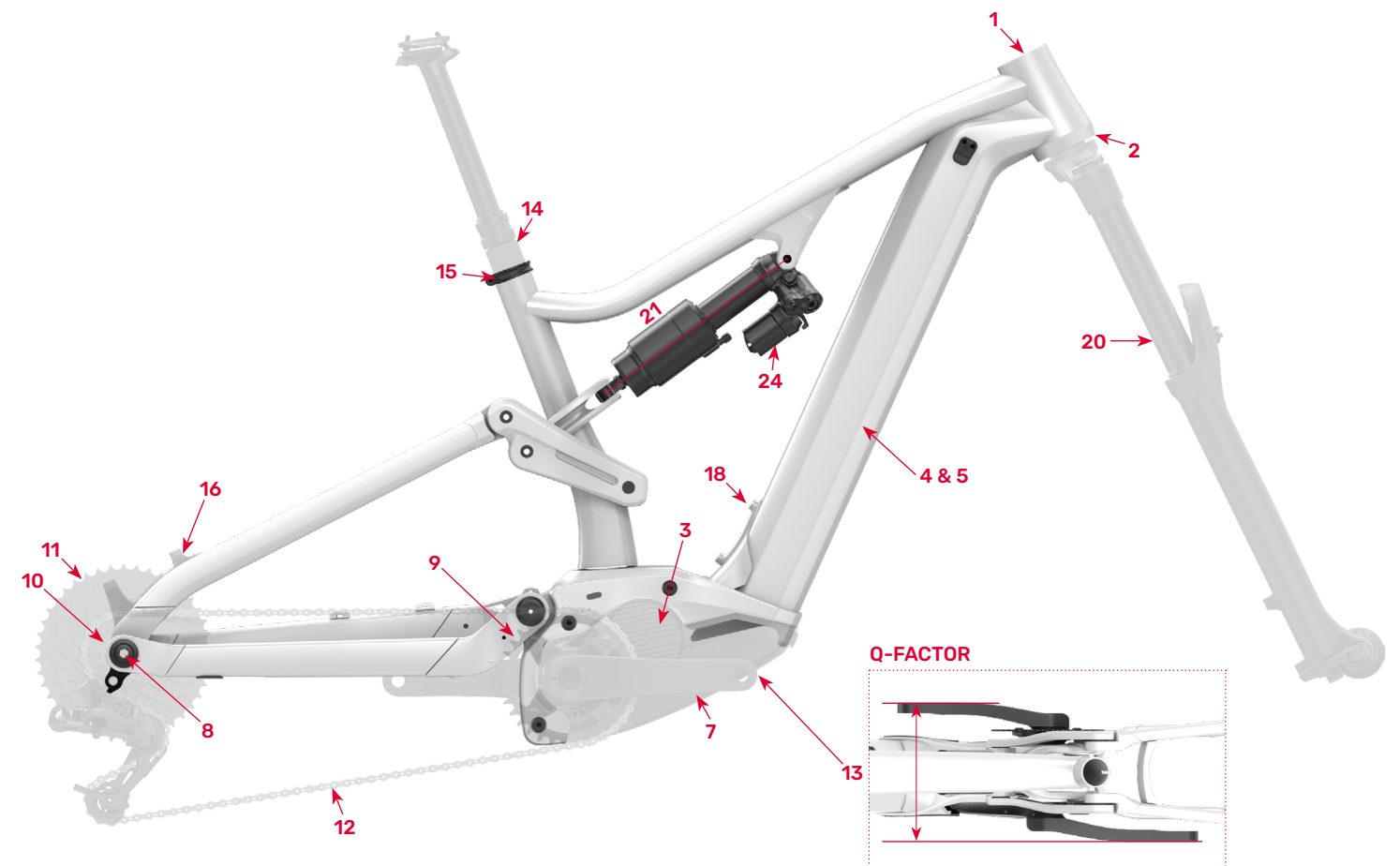


FRAME

Technical Specifications








INFOS DE COMPATIBILITÉ (BASÉ SUR LA TAILLE MÉDIUM)			
29er 170MM E-MTB			
20. FRONT SUSPENSION TRAVEL & SAG	180mm	160mm	20-25%
21. REAR SUSPENSION TRAVEL & SAG	170mm	150mm	30%
22. SHOCK EYE-TO-EYE & STROKE	230 x 65mm		230 x 52.5mm
23. SPRING TYPE COMPATIBILITY	AIR & COIL		
24. SHOCK PIGGYBACK COMPATIBILITY	40 X 10mm		
25. SHOCK ORIENTATION	Forward / Up		
26. UPPER (OR FRONT) SHOCK HARDWARE DIMENSION	35 x 10mm		
27. LOWER (OR REAR) SHOCK HARDWARE DIMENSION	NA		
28. FRONT & REAR WHEEL GEOMETRY	29x2.6		29x2.6
29. FRONT & REAR WHEEL MAX ETRTO	29x2.6 (66-622)		29x2.6 (66-622)

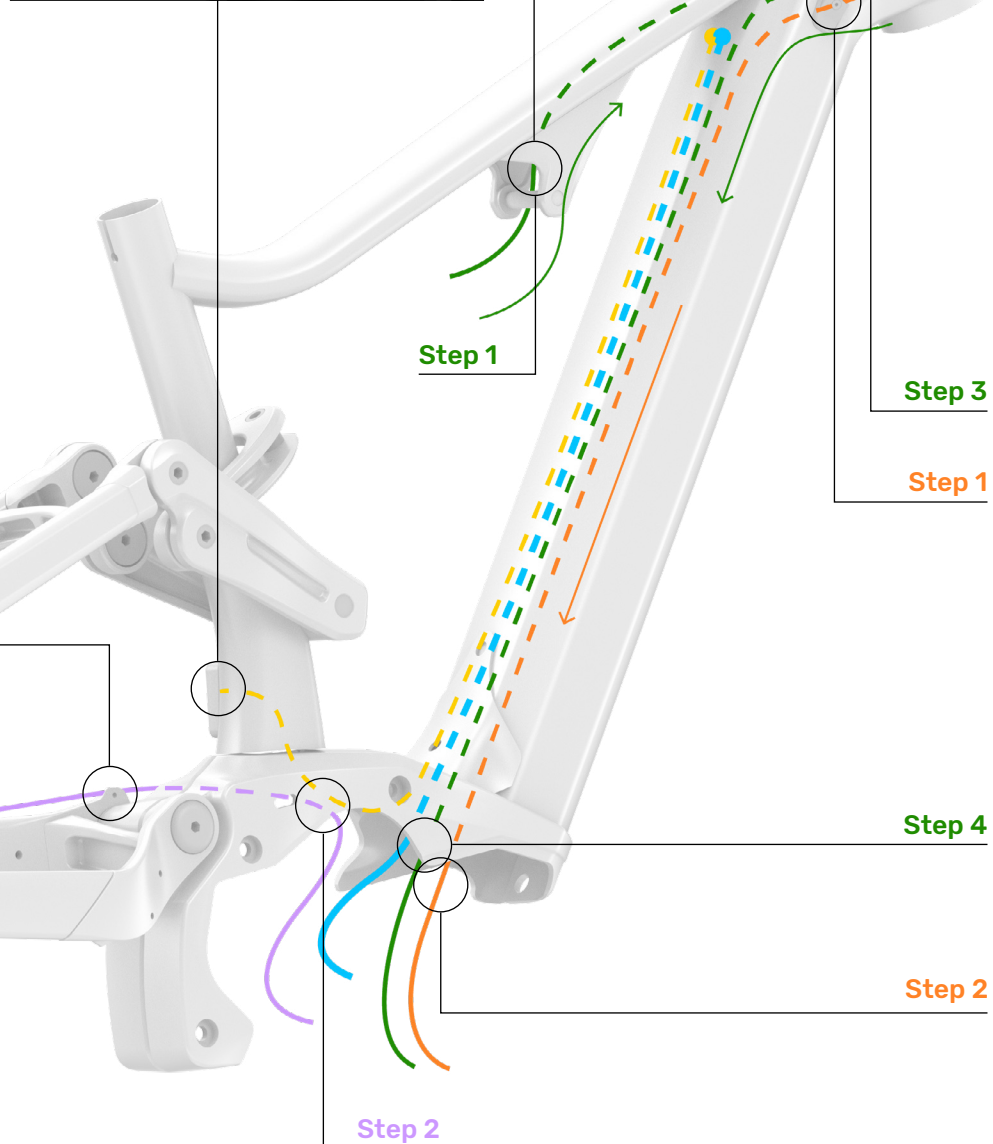
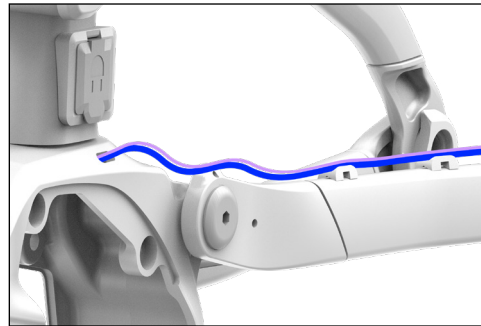
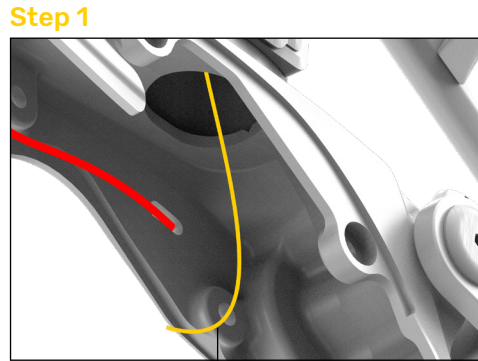
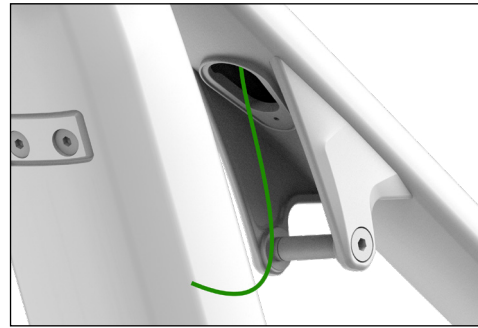
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Cable routing // E-Troy & E-Spartan

CABLES


-  Di2 cable
-  Interruptor cable
-  Charging port cable
-  Speed sensor cable
-  Consol control cable
-  Cable outside the frame
-  Cable inside the frame



Cable routing // E-Troy & E-Spartan


INTERRUPTOR

Step 1 | Insert the cable through the cavity located under the top tube, hidden by the rear shock mount.

 To ease the insertion, rotate the frame upright with the head tube down.


Step 2 | Exit the cable from the top of the steering column. Create a loop with the cable in order to facilitate its reinsertion in the diagonal.

Step 3 | Re-insert the cable in the diagonal until it exits through the motor shell. Secure the switch with tape to prevent it from moving.

 To ease the insertion in the diagonal, rotate the frame vertically with the head tube up.

CONSOL CONTROL CABLE

Step 1 | Remove the stopper, then insert the cable in the diagonal.

 To ease the insertion in the diagonal, rotate the frame vertically with the head tube up. Fix the end of the cable to the diagonal using tape to prevent it from inserting itself into the diagonal during the process.

Step 2 | Pull the cable out through the motor shell.

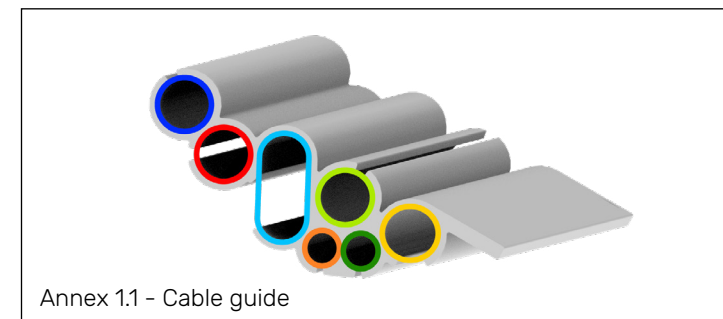
CHARGING PORT CABLE

Step 1 | Route the charging port cable through the connector cavity located on the seat tube, then attach the connector.

SPEED SENSOR CABLE

Step 1 | Attach the cable, then position it on the three stoppers located on the base.

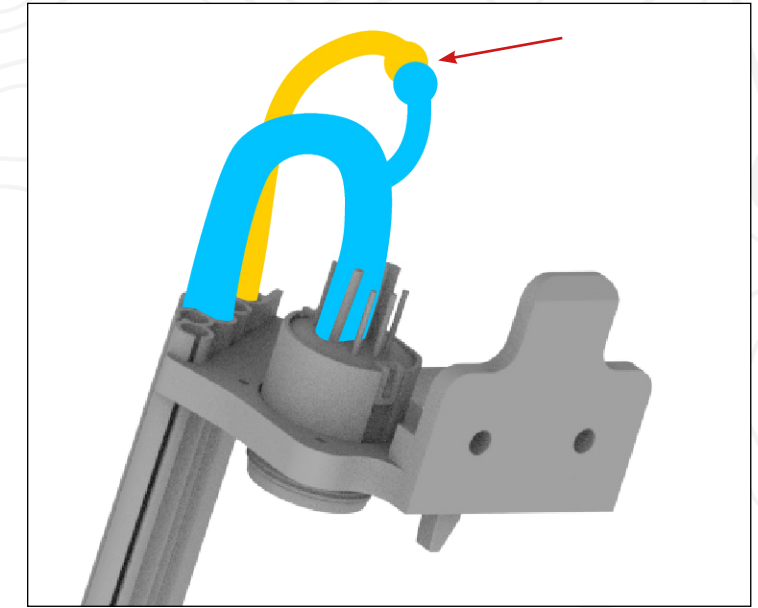
Step 2 | Insert the cable through the cavity on the left side of the motor shell.



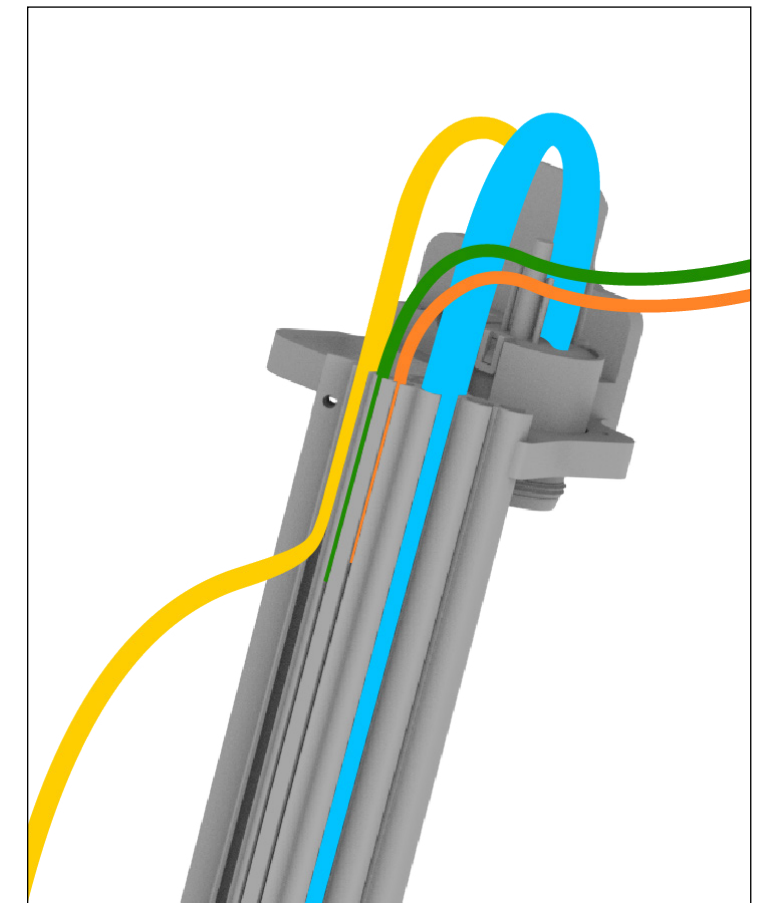
CABLE GUIDE

PERFORM THE FOLLOWING STEPS SIMULTANEOUSLY:

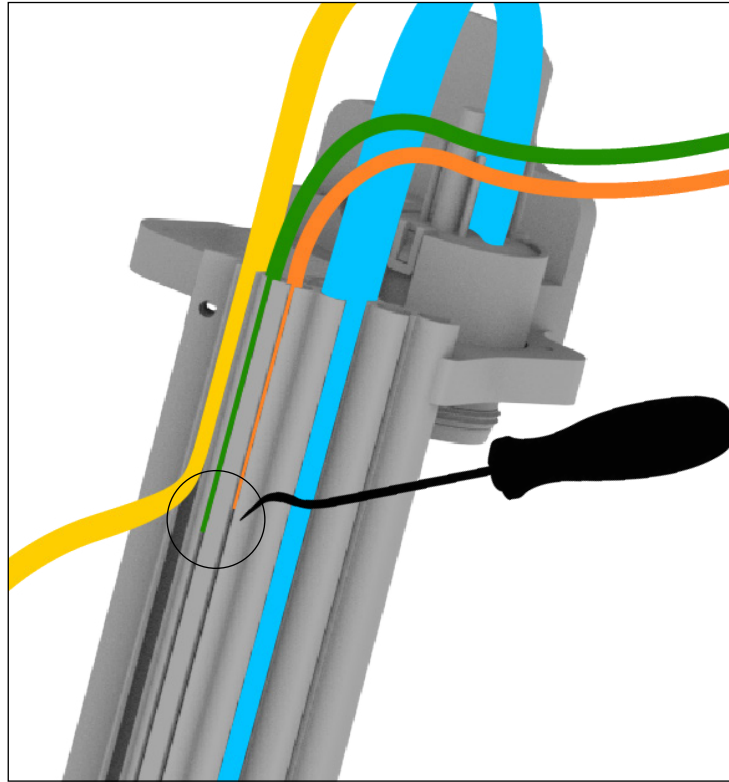
Step 2.1 | Step 1 | Connect the motor mount cable to the charging port cable using the **connector** provided.




Step 4.2 | Step 2.2 | Step 3.2 | Introduce the cables into the cable guide while making sure to nest the wires in their respective base. (See annex 1.1)

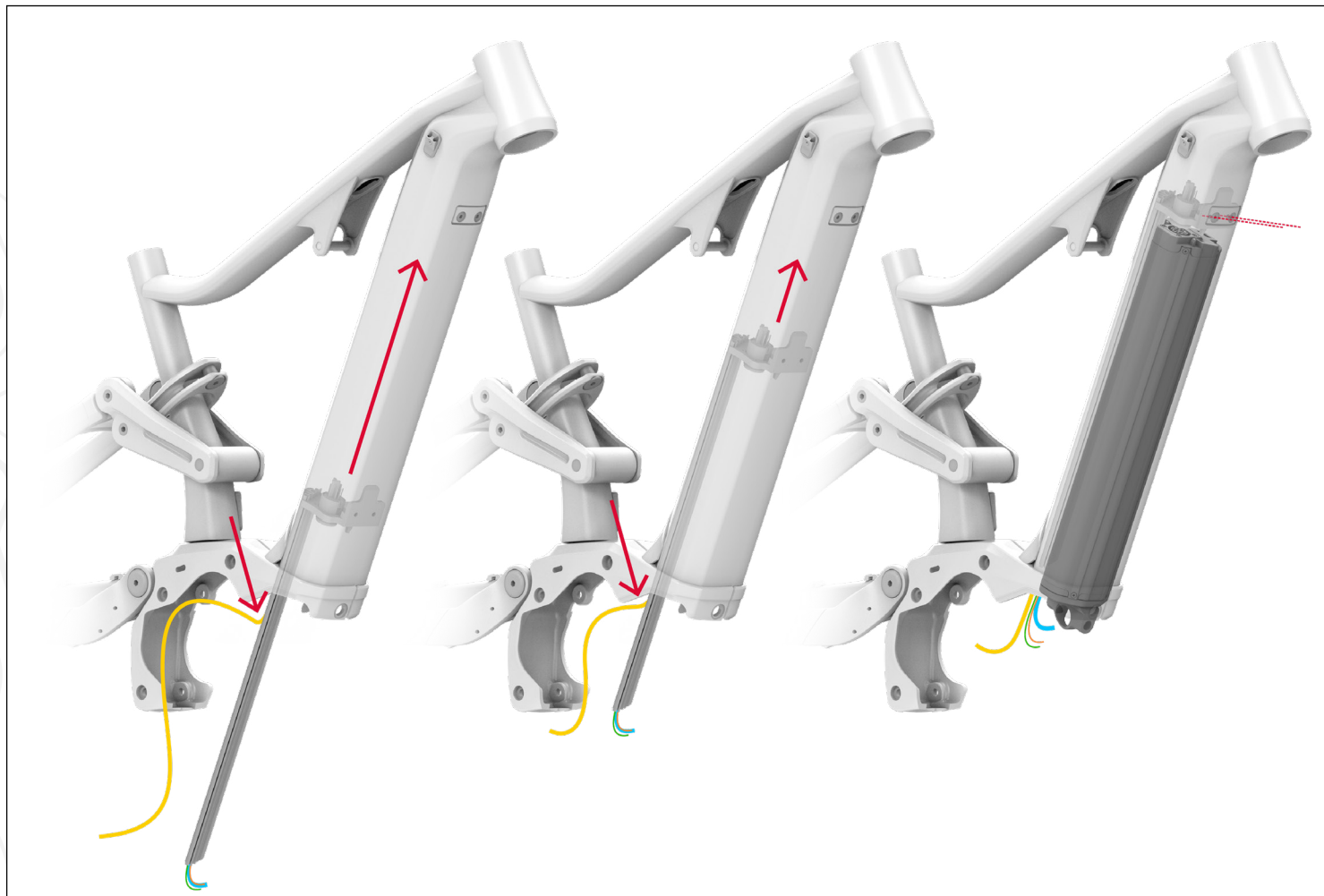


Cable routing // E-Troy & E-Spartan

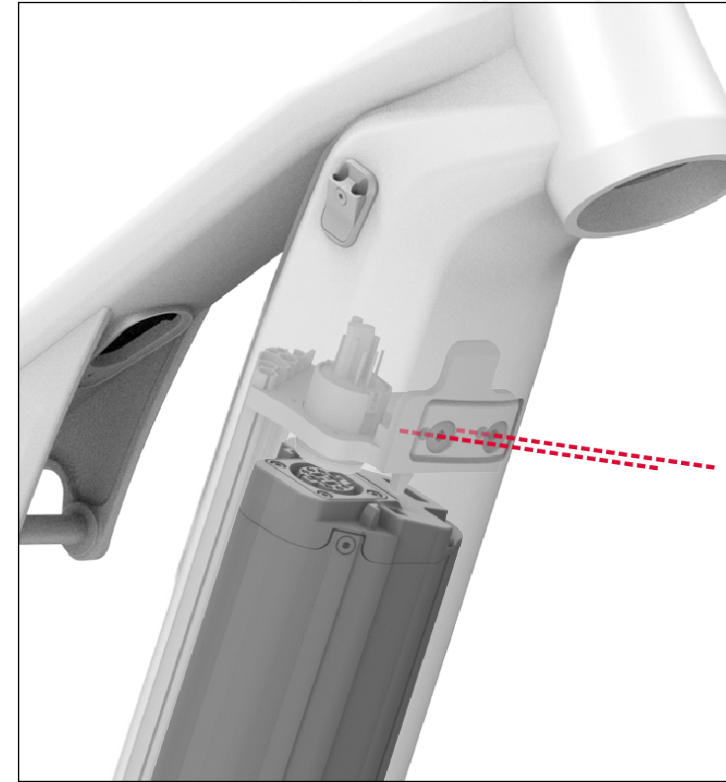


Step 4.3 | Step 2.3 | Step 3.3 | Introduce slowly the cable guide inside the diagonal while nesting the motor support cable in its base. while sliding the cable guide in the diagonal, simultaneously help yourself with a hook to slide the wires to the bottom of the cable guide.

 To facilitate insertion, use a hook to slide the cables into the cable guide.








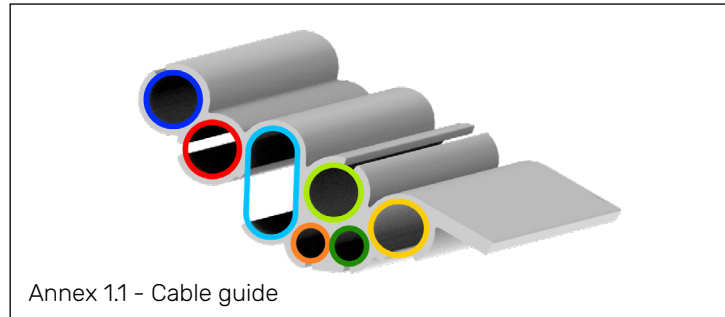
Cable routing // E-Troy & E-Spartan



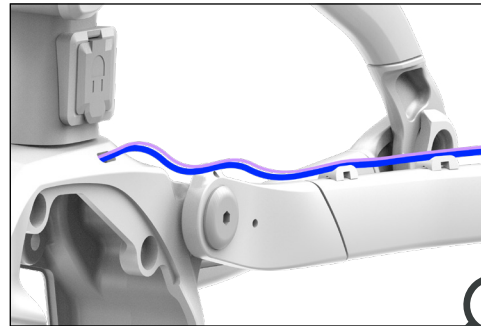
Step 4.4 | Step 2.4 | Step 3.4 | Once the cable guide is fully inserted in the diagonal, ensure that it is correctly positioned by guiding you using the battery.

Cable routing // E-Troy & E-Spartan

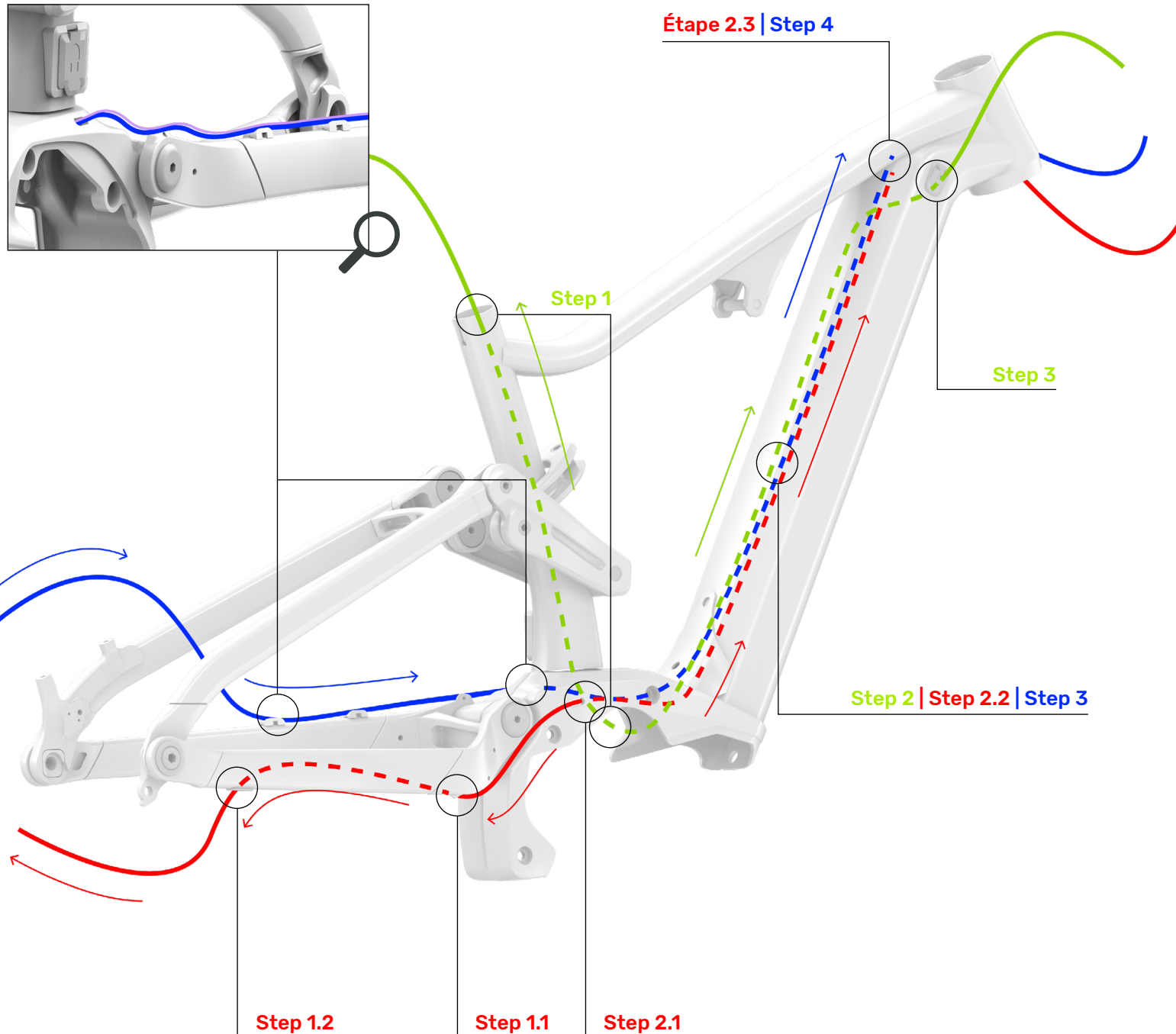
HousingS	
	Seatpost housing
	Rear brake housing
	Rear derailleur housing
	Housing outside the frame
	Housing inside the frame



Step 1 & 2



Étape 2.3 | Step 4



Cable routing // E-Troy & E-Spartan

REAR BRAKE HOUSING

Step 1 | Attach the rear brake housing to the three stops welded to the base using a zip tie.

i Remember to secure the speed sensor cable to the stops with the rear brake housing.

Step 2 | Insert the housing through the cavity located on the left side of the motor shell. Make sure the speed sensor cable has been inserted there first.

Step 3 | Insert the rear brake housing into the cable guide.

i See annex 1.1 and 1.2 to visualize the location of the housing in the cable guide.

Step 4 | Slide the rear brake housing in the diagonal and pull the housing out of the left cavity located at the top of the diagonal.

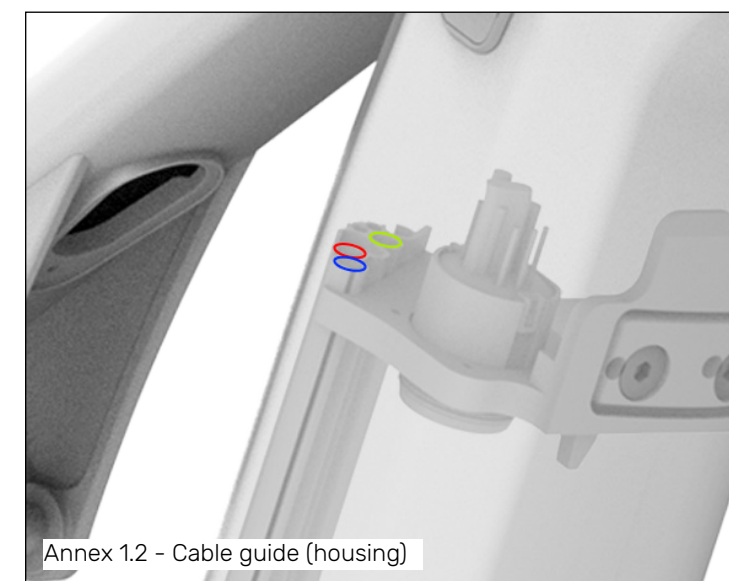
SEATPOST HOUSING

Step 1 | Insert the seatpost housing into the seat tube from the motor shell.

Step 2.1 | Insert the seatpost housing into the cable guide.

i See annex 1.1 and 1.2 to visualize the location of the housing in the cable guide.

Step 2.2 | Pull the housing out through the cavity located on the right side of the diagonal. Put the stopper back in place, pass the seatpost housing through the lower cavity and the consol control cable through the upper cavity.



REARD SPEED HOUSING

Step 1.1 | Insert the rear speed housing through the cavity located under the front of the base.

Step 1.2 | Remove the stopper located at the other end of the base and pull out the housing using a hook.

i Make sure the housing is long enough to reach the rear derailleur.

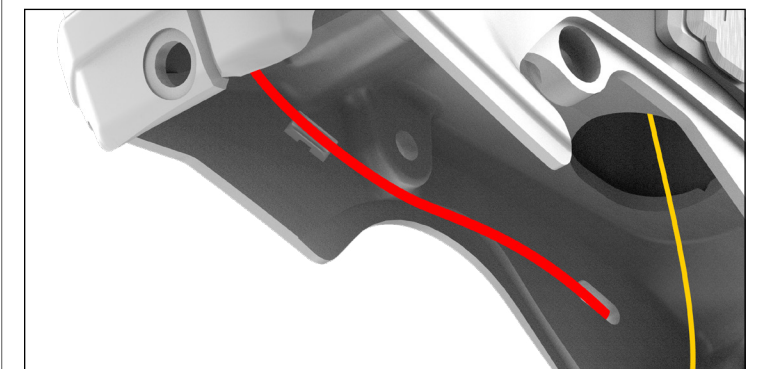
Step 2.1 | Insert the rear derailleur housing into the cavity on the right side of the motor shell.

Step 2.2 | Insert the rear derailleur housing into the cable guide.

i See annex 1.1 and 1.2 to visualize the location of the housing in the cable guide.

Step 2.3 | Pull the housing out through the cavity located on the left side of the diagonal using a hook. Put the stopper back in place, pass the speed housing through the lower cavity and the brake housing through the upper cavity.

i Remember to fix the housing to the stopper provided for this purpose located inside the motor shell.





DEVINCI'S RIDE IN PEACE WARRANTY | CONDITIONS

THIS WARRANTY DOES NOT COVER

- ✗ Regular maintenance (cleaning, lubrication or inspection);
- ✗ TranOptimum S or shipping charges incurred as a result of the execution of the warranty;
- ✗ Cost of labour related to the assembly, disassembly, repair or replacement parts;
- ✗ Damages caused by normal wear and tear including damages caused by material fatigue.

THE WARRANTY DOES NOT APPLY IF:

- ✗ The damages were caused by a fortuitous event;
- ✗ The bicycle was purchased from a retailer other than those authorized by devinci;
- ✗ The bicycle was not entirely assembled by an authorized devinci retailer;
- ✗ The bicycle was repaired by a person other than an authorized devinci retailer;
- ✗ You are not the original owner of the bicycle;
- ✗ The instructions contained in the user's manual for all frames and the technical manual for frames with double suspension were not respected;
- ✗ The periodic inspection recommended in the user's manual for all frames and in the technical manual for the frames with double suspension was not carried out;
- ✗ Parts not supplied by devinci with the bicycle or not indicated in the user's manual for all frames or the technical manual for the frames with double suspension were used;
- ✗ The bike paint is damaged as a result of an adhesive frame protector installation;
- ✗ The bicycle was used for an activity other than those for which it was conceived;
- ✗ The bicycle and/or its components were subject to abusive use, negligence, abnormal and/or excessive use or was implicated in an accident;
- ✗ The frame is too small for you;
- ✗ The frame and/or its components were modified (ex: polishing, structural or mechanical modification or addition, stripping, sanding, strain hardening, shot peening);
- ✗ You continued to use your bicycle while it was damaged.



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