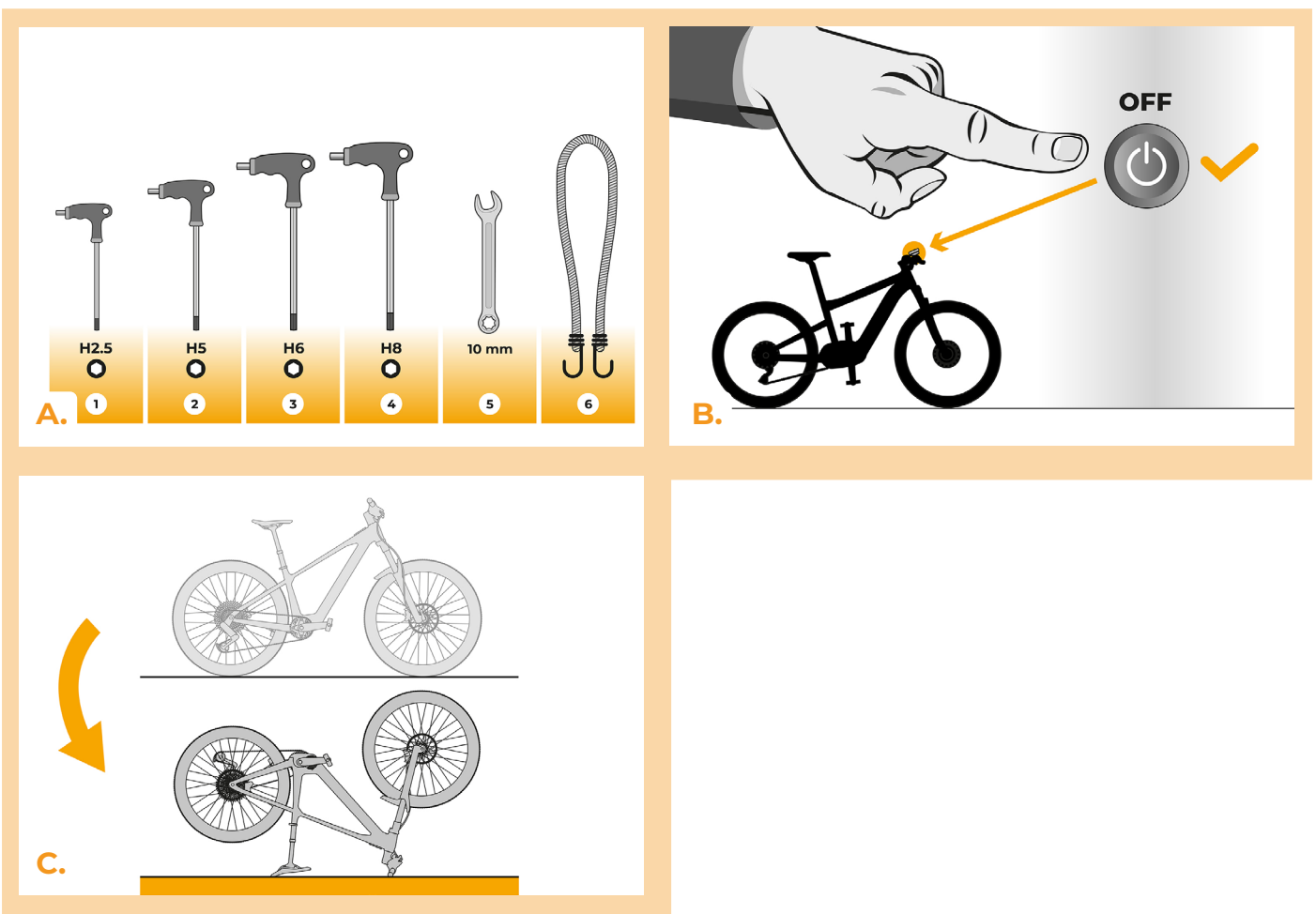


SpeedBox 1.1 B.Tuning for Avinox

STEP 1: Preparation for installation

For a brand new e-bike ride at least 10 km before installing and activating the tuning.

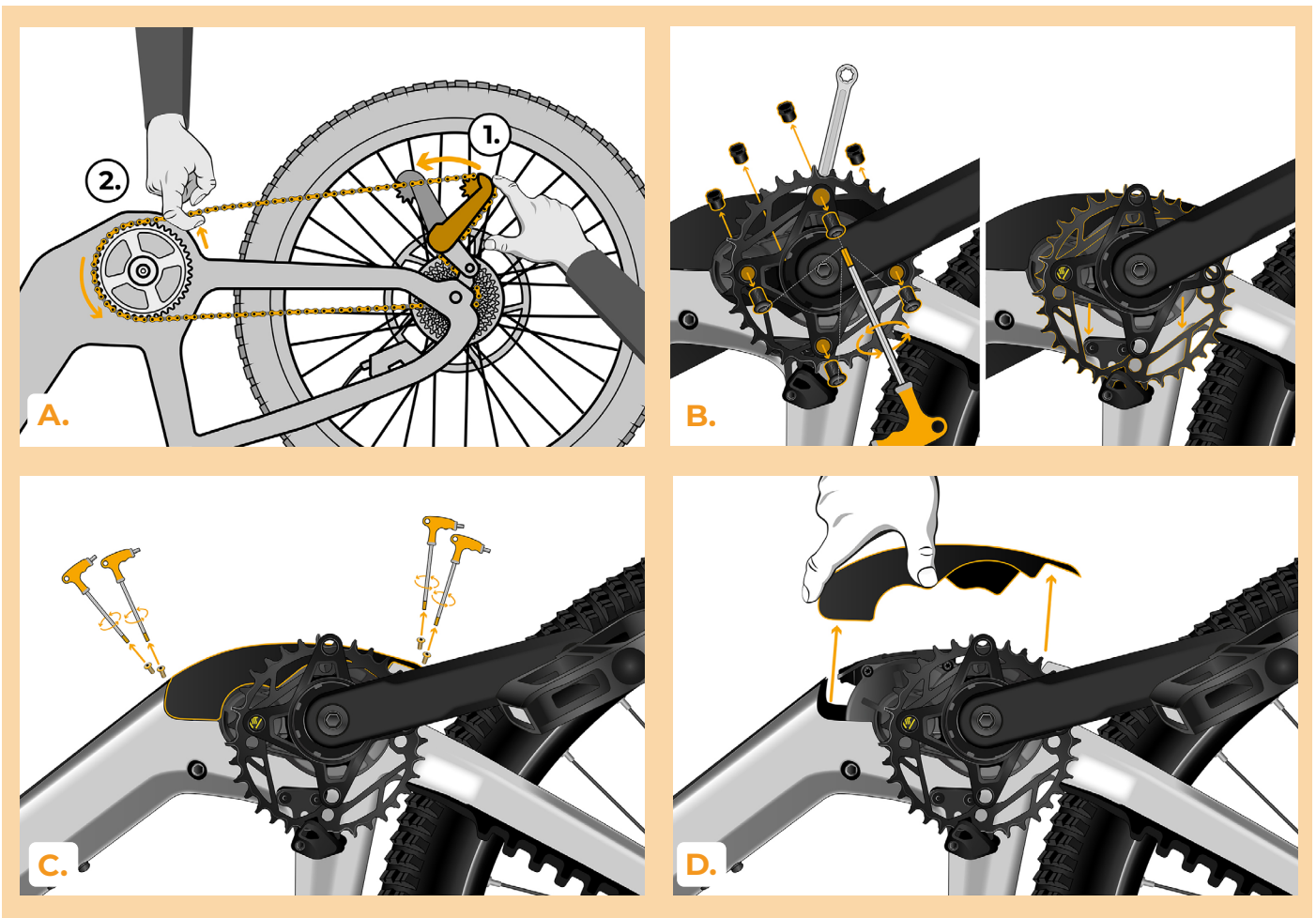
- A.** Prepare the following tools:
(tools may vary depending on the type of e-bike)
1. Hex Key H2.5
 2. Hex Key H5
 3. Hex Key H6
 4. Hex Key H8
 5. 10 mm open-end wrench
 6. Bungee cord with hook
- B.** Turn off the e-bike.
- C.** Turn the e-bike upside down so the motor faces upward.



STEP 2: Removal of the e-bike motor cover

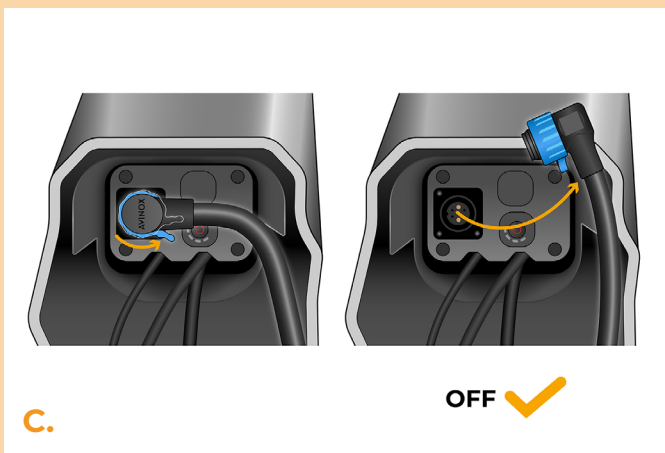
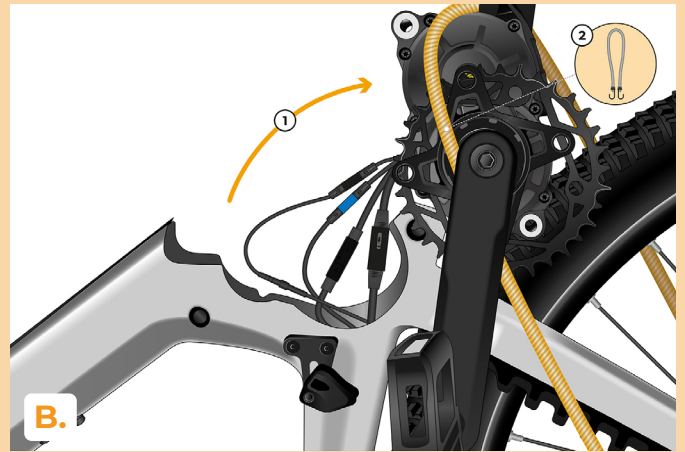
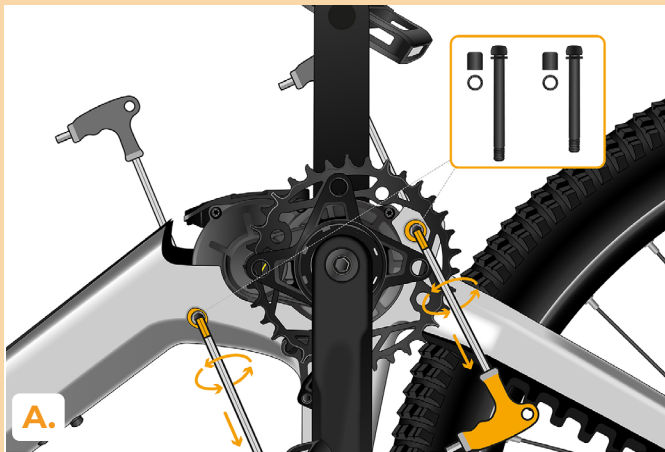
Motor cover disassembly may vary depending on the e-bike's design.

- A.** Remove the chain.
- B.** Remove the four chainring bolts at the crank spider using a flat-head screwdriver, an H5 hex key and a 10 mm open-end wrench. Leave the chainring hanging freely on the crank axle. This will create space to loosen the bolts securing the motor.
- C.** Remove the bolts securing the lower motor cover using an H2.5 hex key.
- D.** Remove the motor cover.



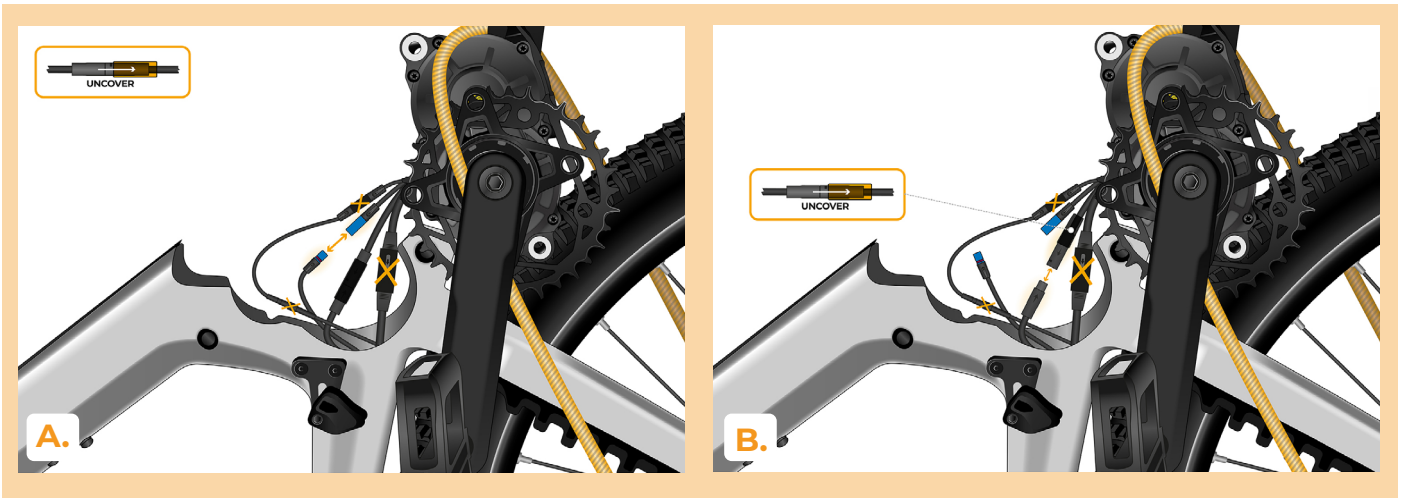
STEP 3: Removing the motor from the e-bike frame

- A.** Using H6 and H8 hex keys, loosen and remove the two long motor mounting bolts, including the nuts. The bolts are of different lengths, so mark their positions for correct reassembly (front/rear).
- B.** Slide the motor out of the frame and secure it between the frame and the rear wheel using the elastic strap with hooks to gain access to the motor connectors. Carefully slide out the motor to avoid disconnecting or damaging the cables.
- C.** Disconnect the battery power supply by turning the lever, then pull the connector out of the socket.



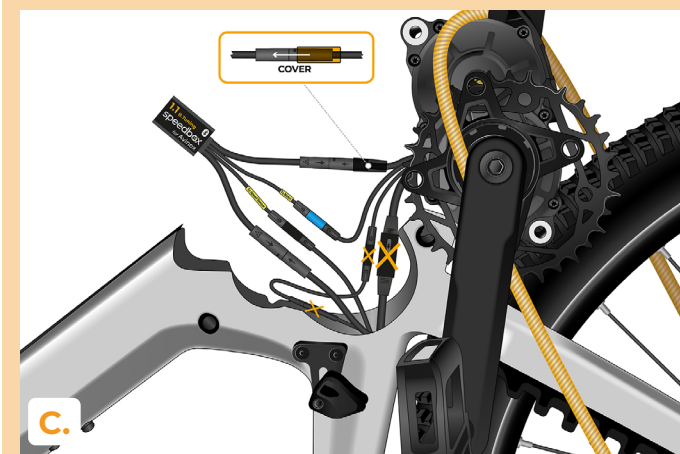
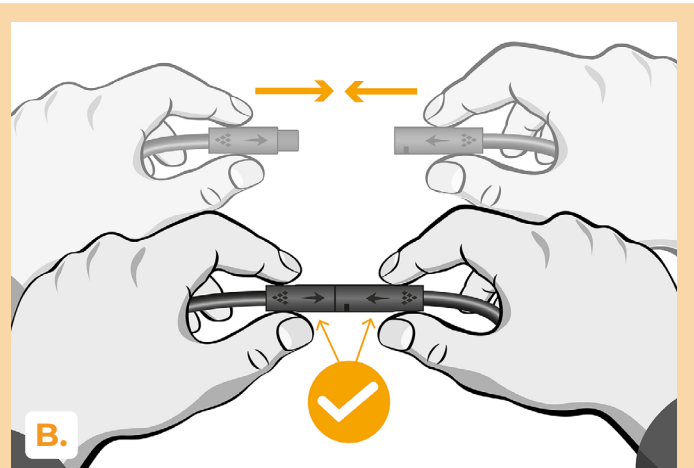
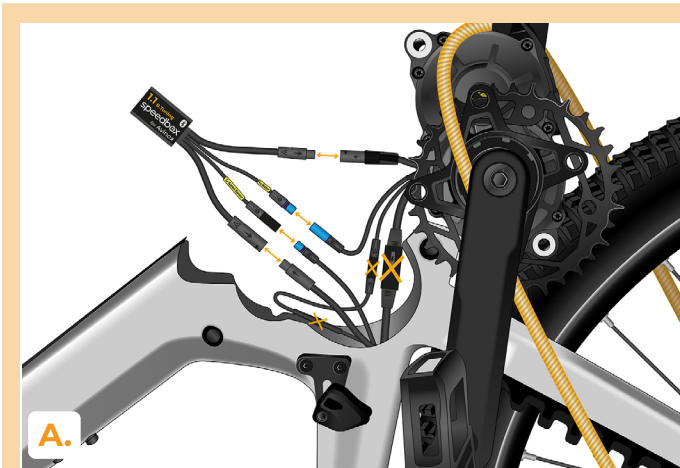
STEP 4: Disconnecting the connectors from the motor

- A.** The connectors may be protected by a silicone cover. Pull back the cover to allow the connectors to be disconnected. After reconnecting, put the silicone cover back over the connectors. Disconnect the speed sensor connector.
- B.** Disconnect the motor-to-display connector.



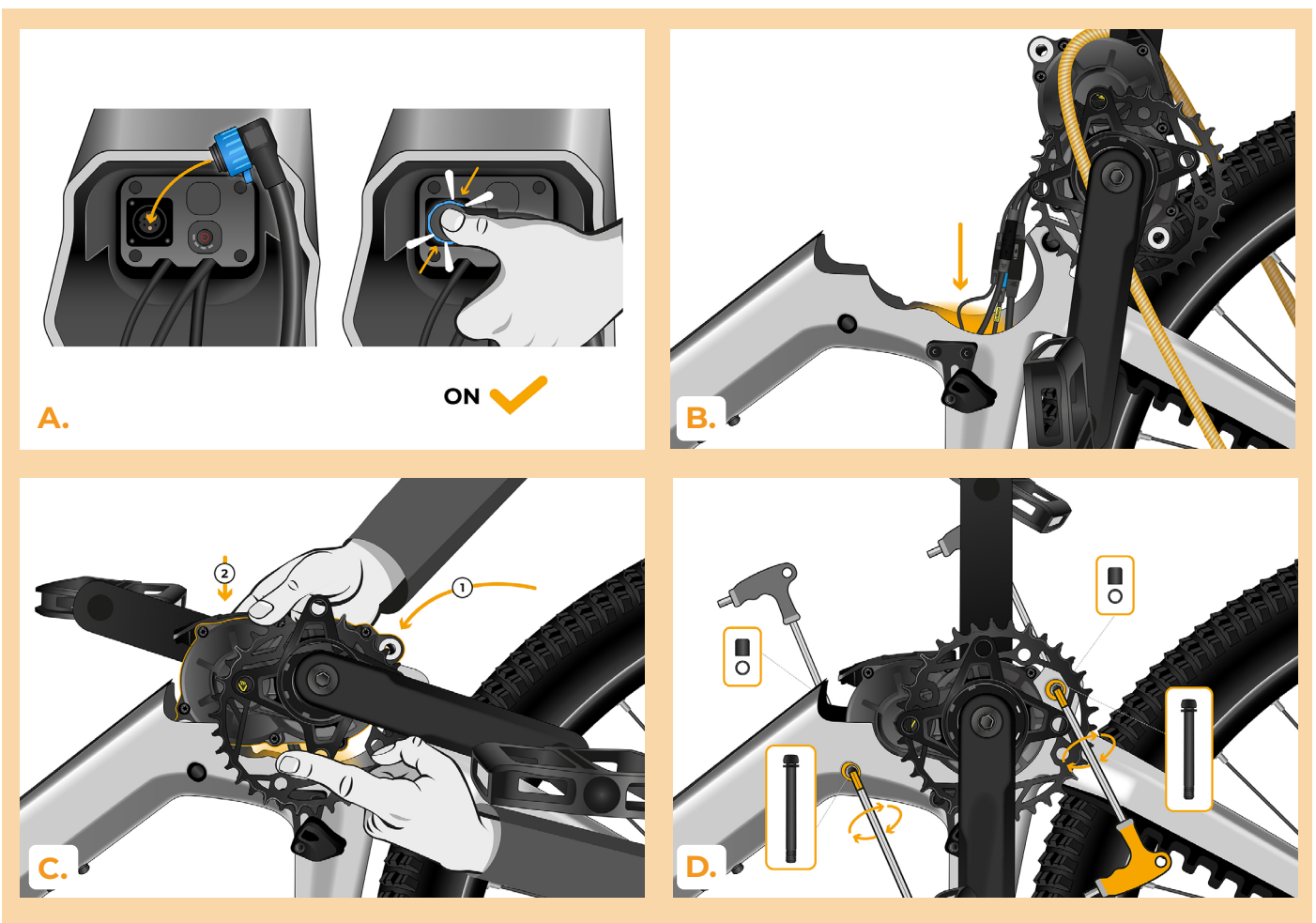
STEP 5: SpeedBox tuning installation

- A.** Plug SpeedBox into the disconnected connectors (step 4).
- B.** Make sure that the connector locks are properly engaged.
- C.** Before assembling the motor, check the correct wiring as shown in the figure.



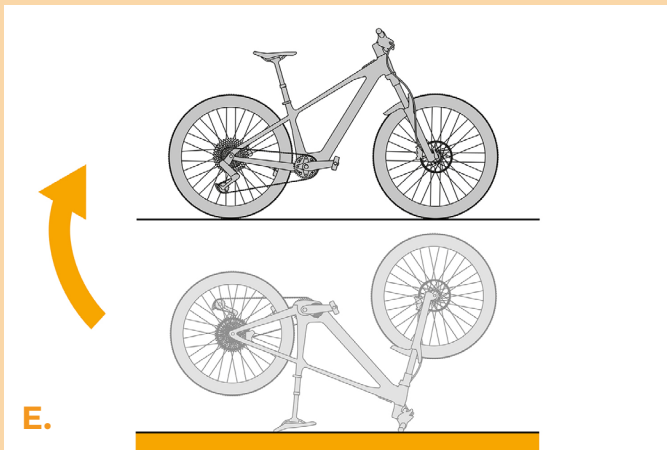
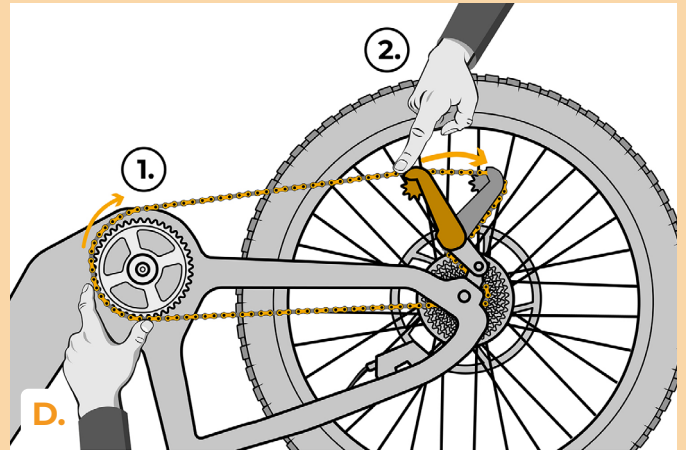
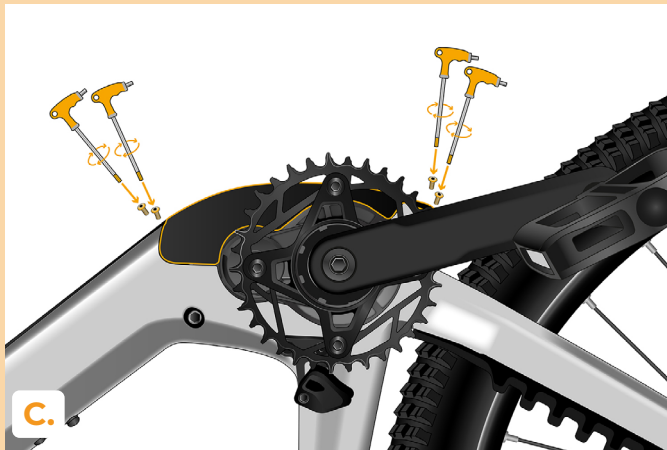
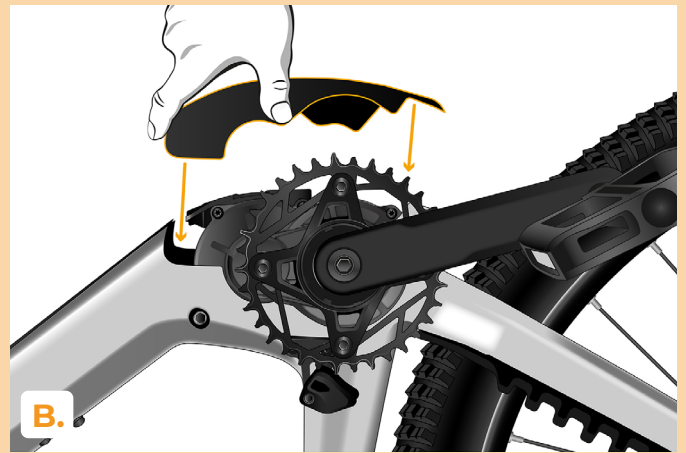
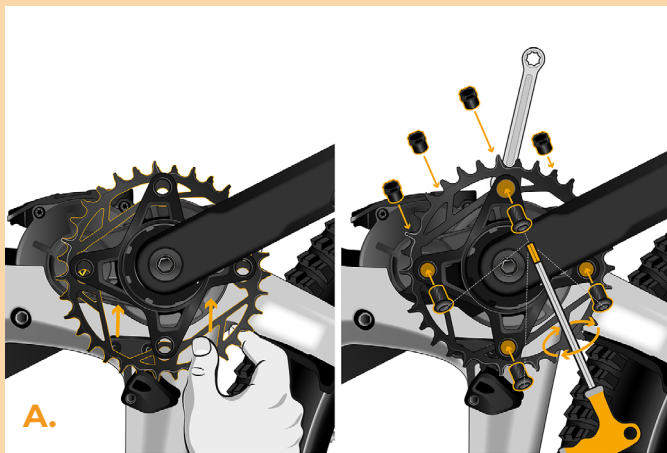
STEP 6: Reinstalling the motor into the e-bike frame

- A.** Reconnect the battery power supply.
- B.** Place the connected SpeedBox, including the cables leading from the motor, back into the free space in the e-bike frame. Make sure that the connectors are not pinched or disconnected.
- C.** Return the motor to the e-bike frame.
- D.** Reinstall the two long bolts together with the nuts and tighten them using H6 and H8 hex keys.



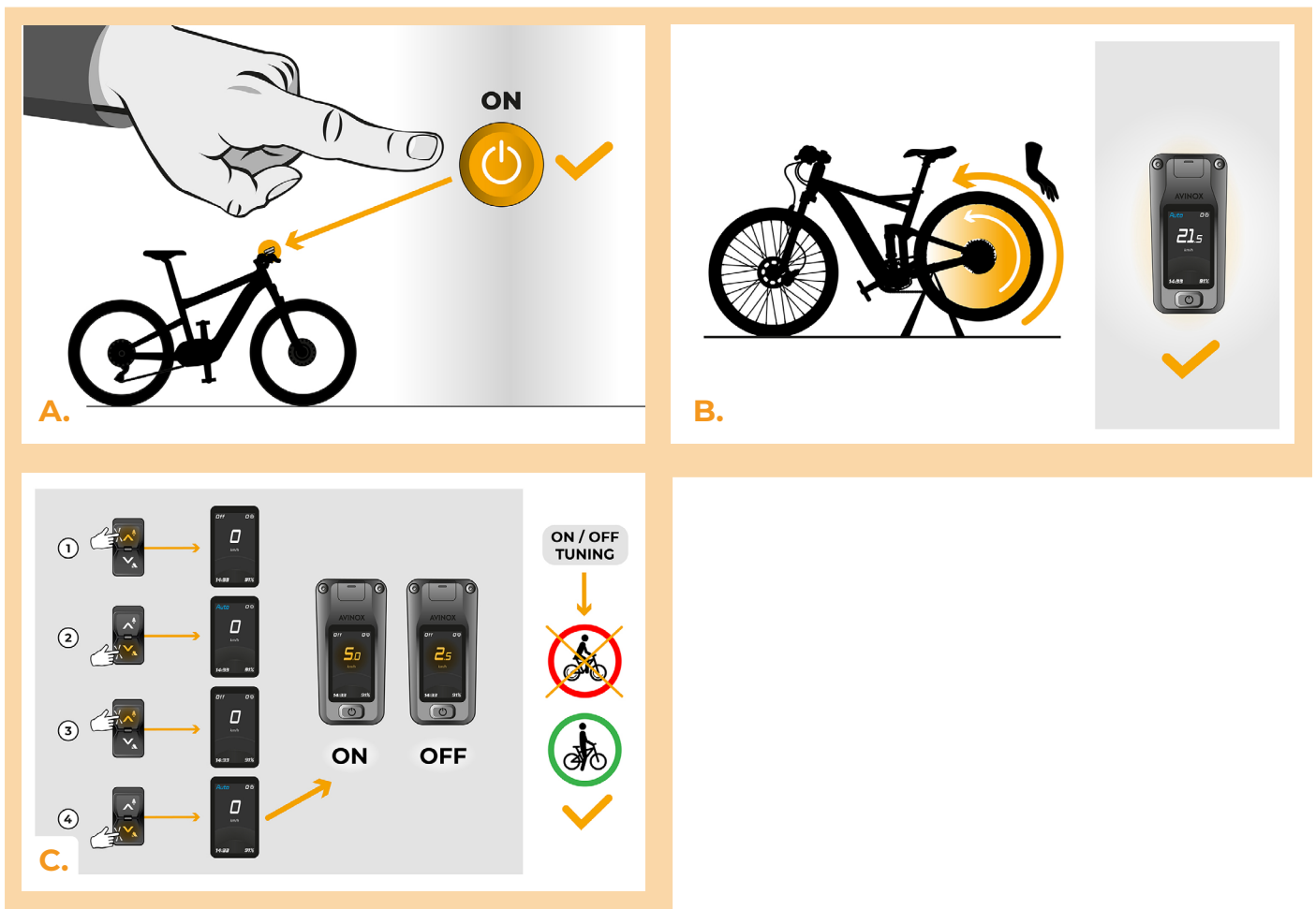
STEP 7: Reinstalling the e-bike motor cover

- A.** Reinstall the chainring onto the crank spider and tighten it securely.
- B.** Reinstall the motor covers.
- C.** Fasten all bolts using a Hex key H2.5.
- D.** Reinstall the chain onto the chainring.
- E.** Turn the e-bike back onto its tires.



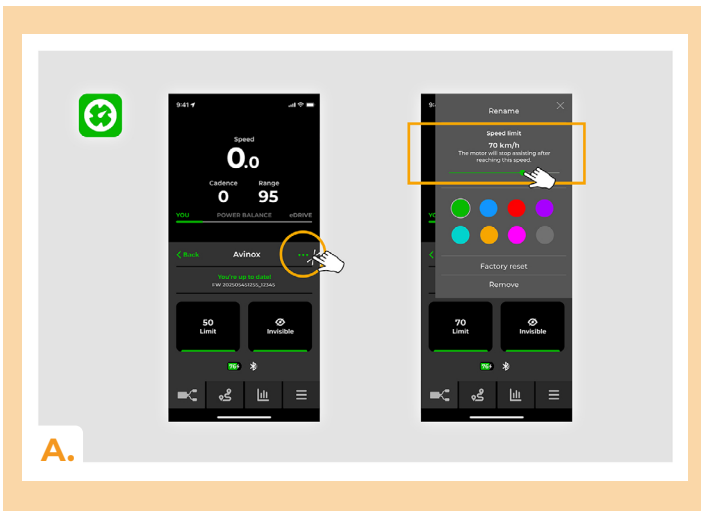
STEP 8: Tuning function check

- A.** Turn the e-bike on.
- B.** Spin the rear wheel and check whether the speed is displayed on the display.
- C.** You can activate or deactivate the SpeedBox using the handlebar control by switching between two assist modes (– + – +) or (+ – + –). Always activate/deactivate the tuning before riding, never while riding.



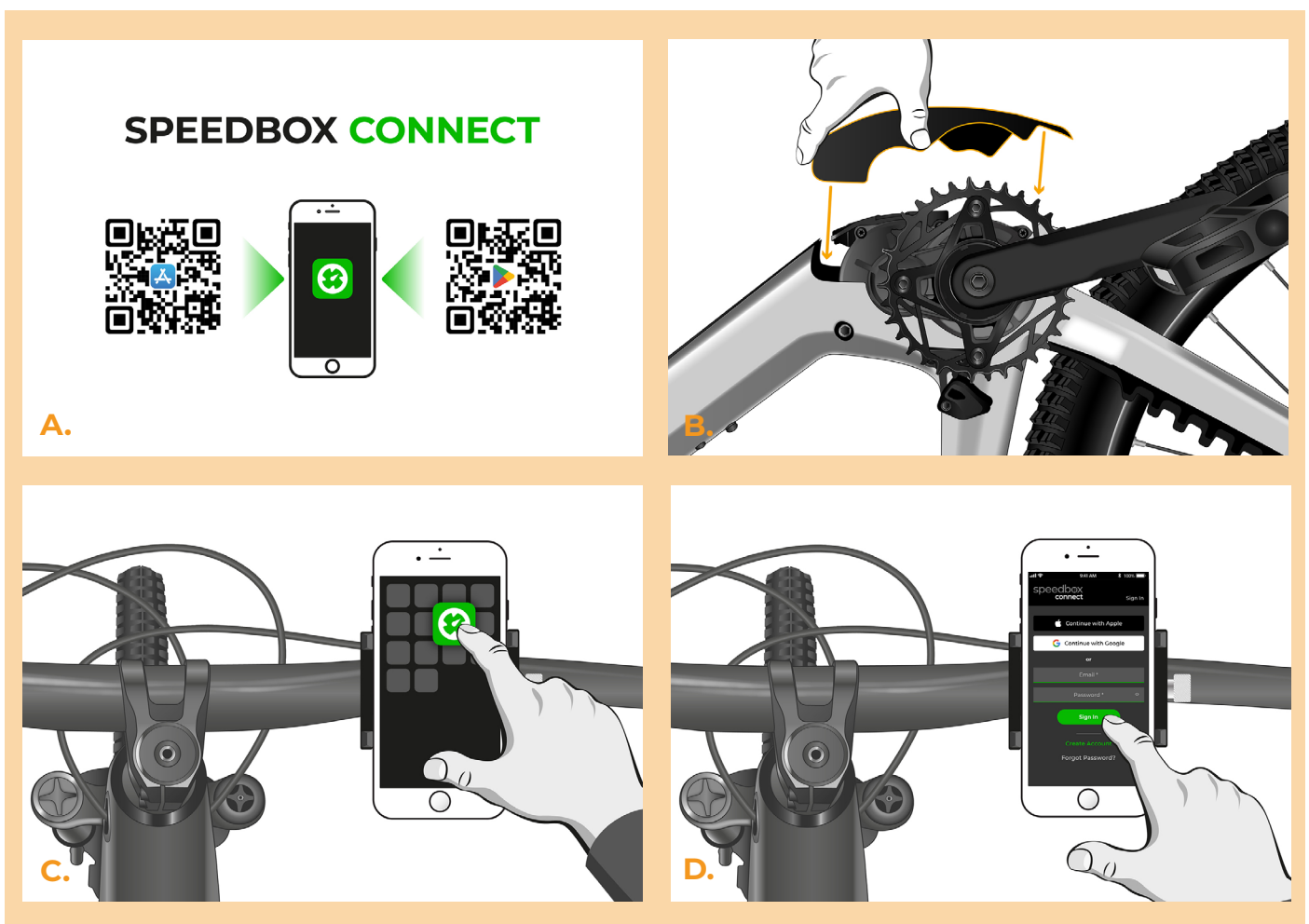
STEP 9: Setting the speed limit

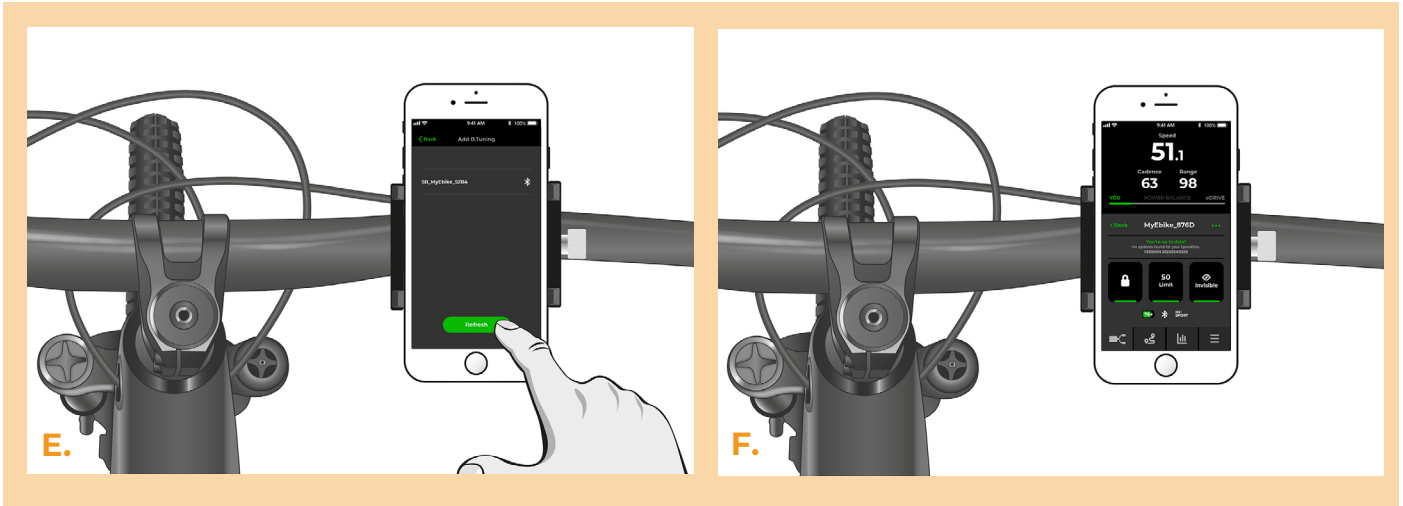
A. The maximum assist speed can only be set in the SpeedBox Connect app.



STEP 10: Pairing the SpeedBox product with the SpeedBox Connect mobile app

- A.** Install the SpeedBox Connect app from the App Store or Google Play.
- B.** Turn on Bluetooth on your phone.
- C.** Open the SpeedBox Connect app. Allow location services if prompted.
- D.** Create an account or log in.
- E.** Select the device MyEbike_xxxx. If you cannot find your SpeedBox in the list, click the "Refresh" button and make sure that:
 1. Your e-bike is switched on.
 2. You are not further than 5 m from your e-bike.
 3. Bluetooth is enabled on your mobile phone
 4. Location services are enabled for the SpeedBox Connect app on your mobile phone.
- F.** You can now fully use the SpeedBox Connect app – control tuning, monitor ride data, set the speed limit, etc.





www.speedbox-tuning.com

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