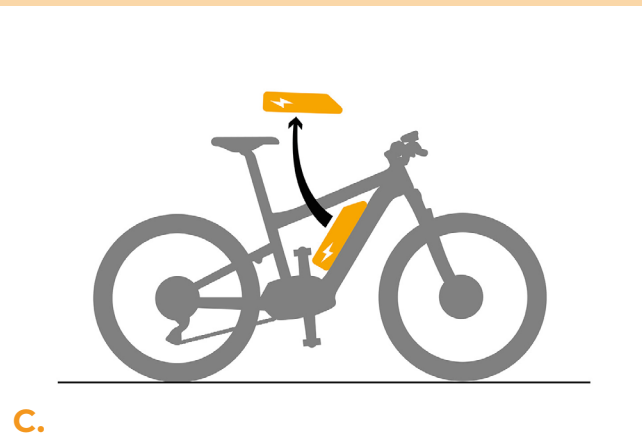
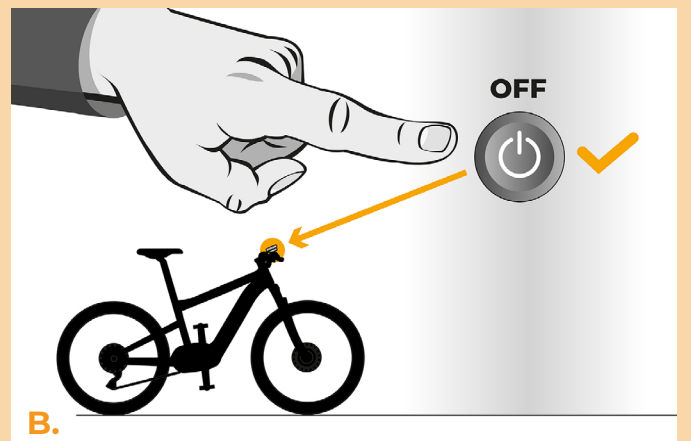
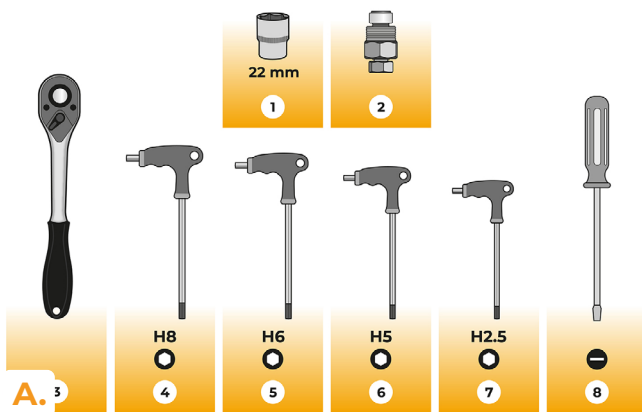


SpeedBox 3.5 for Yamaha

STEP 1: Preparation for installaion

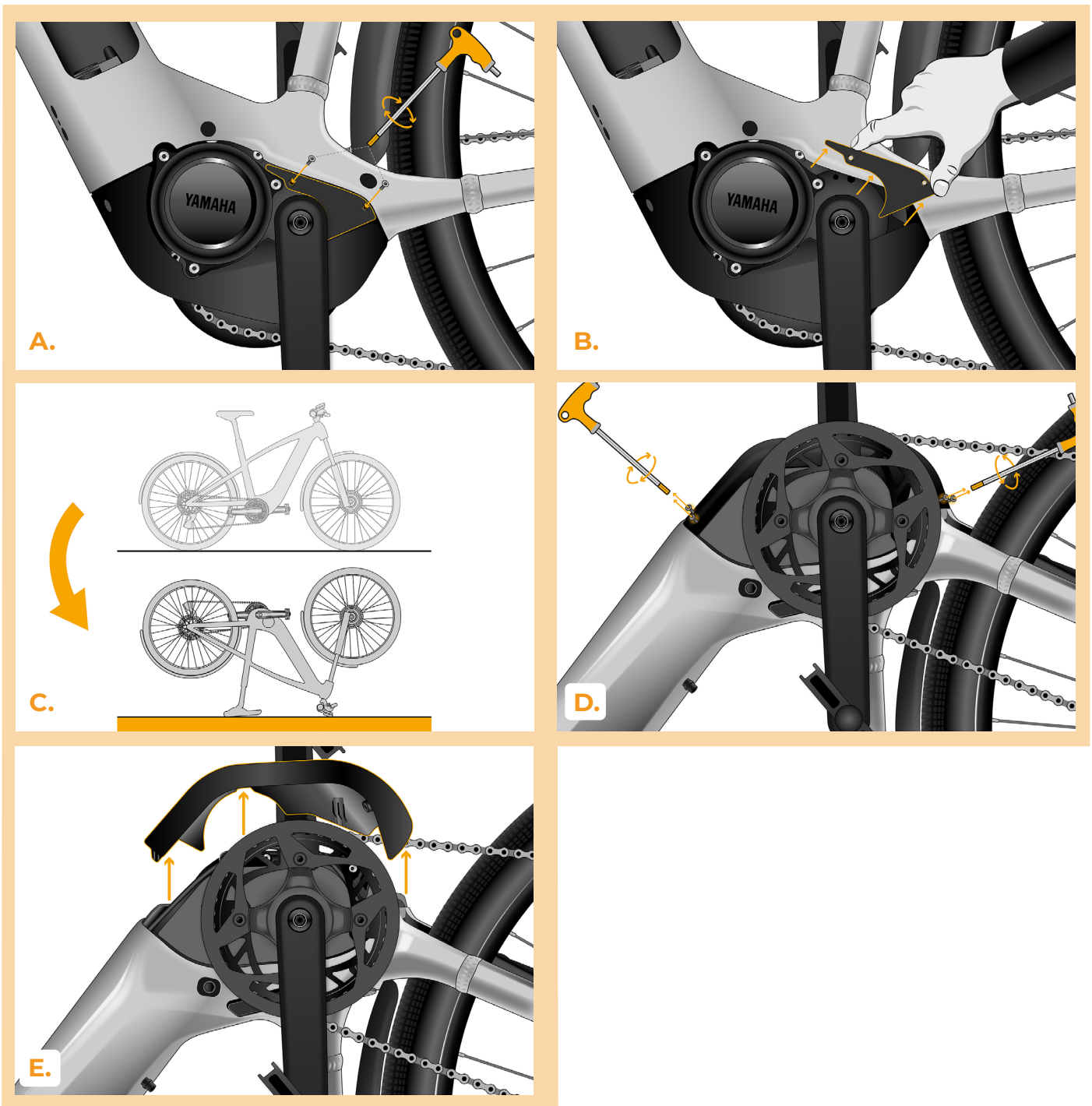
- A.** Prepare the following tools:
1. Socket wrench 22 mm
 2. Crank puller
 3. Ratchet 1/2"
 4. Hex Key H2.5
 5. Hex Key H5
 6. Hex Key H6
 7. Hex Key H8
 8. Large flathead screwdriver
- B.** Turn off the e-bike.
- C.** Remove the battery from the e-bike according to the manufacturer's manual.



STEP 2: Removal of the e-bike motor cover

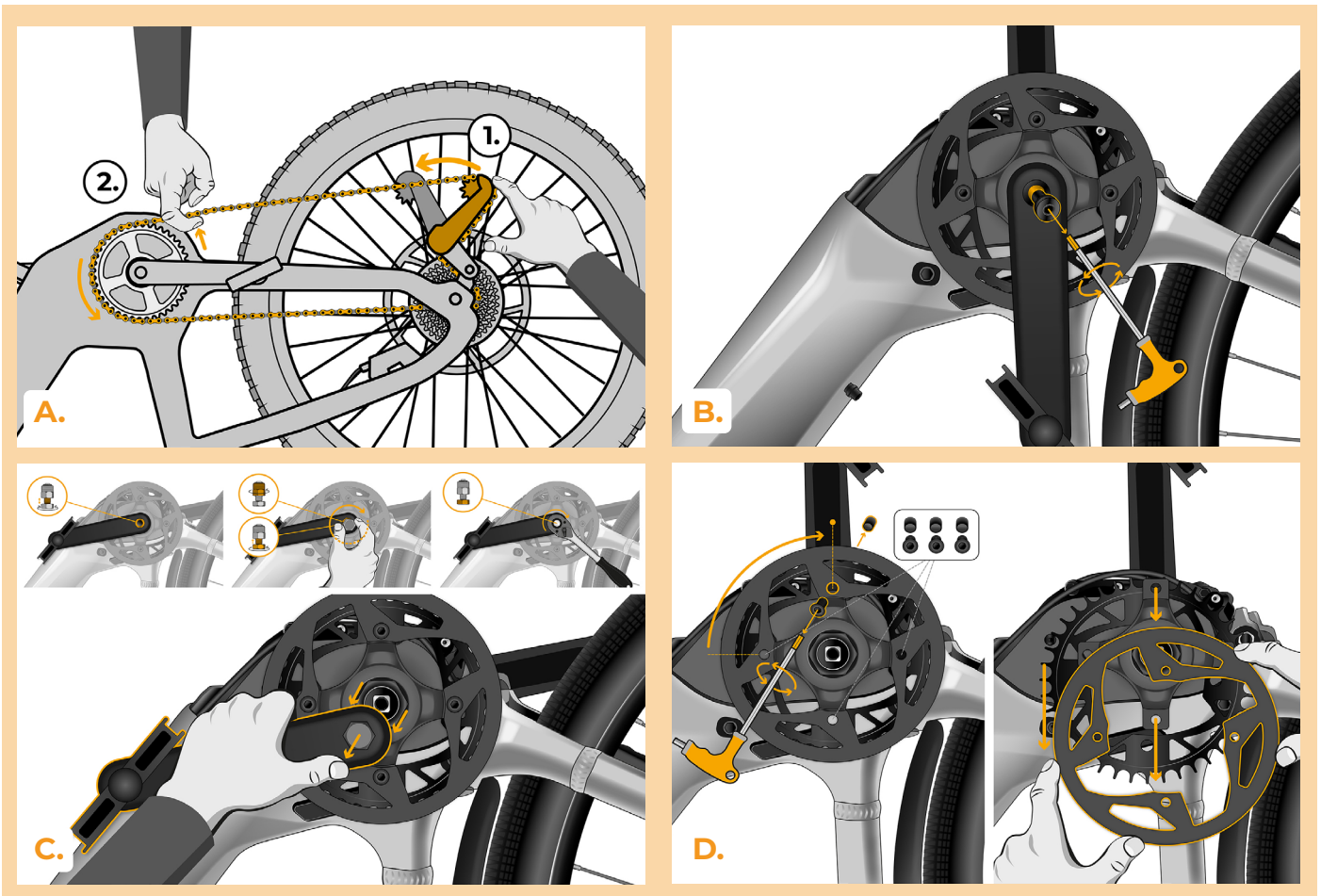
Demontáž krytu motoru se může lišit dle konstrukce elektrokola.

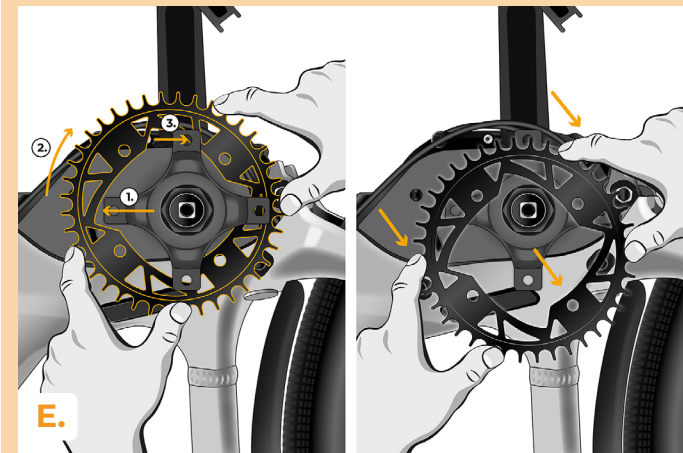
- A.** Remove the two screws securing the motor side cover using a 2.5 mm Hex key.
- B.** Remove the motor side cover.
- C.** Turn the e-bike so that the motor is facing upward.
- D.** Remove the four screws securing the motor cover using a 2.5 mm Hex key.
- E.** Remove the motor cover.



STEP 3: Removing the crank and chainring

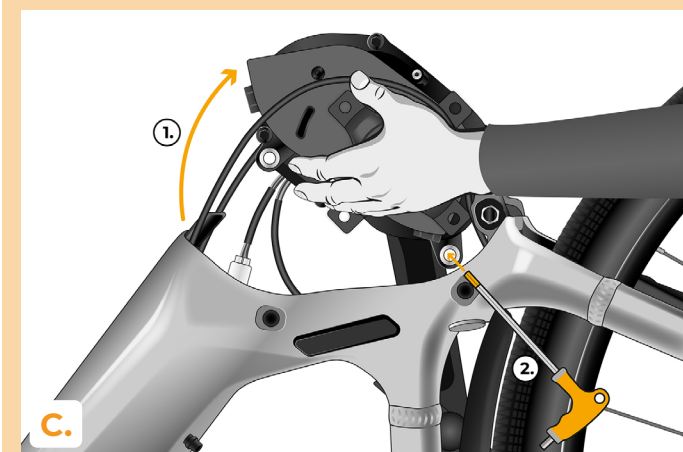
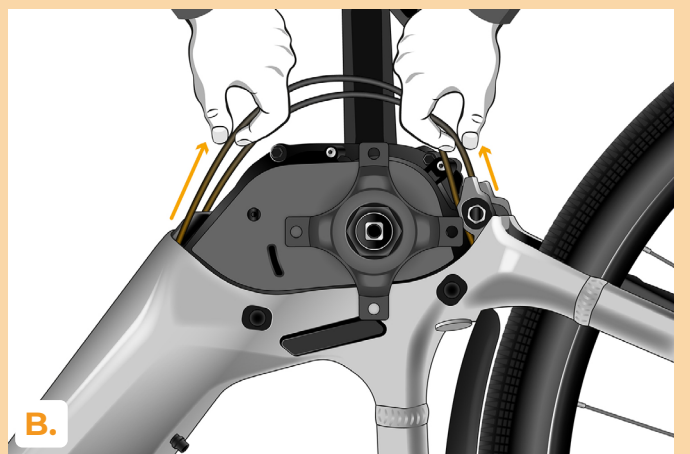
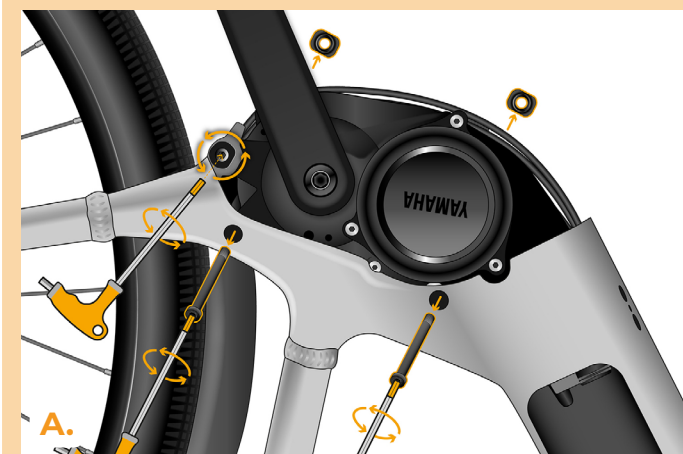
- A.** Remove the chain.
- B.** Remove the crank on the chainring side of the motor. First, remove the locking screw using a 8 mm Allen key. Using a crank puller and a ratchet, loosen the crank from the motor spindle.
- C.** Remove the crank.
- D.** Using a 5 mm Allen key, remove the four screws securing the gear cover. Each screw has two opposite parts. For easier access, work in the upper area above the motor and rotate the chainring by 90° each time to reach all screws. Finally, remove the gear cover.
- E.** Remove the chainring from the motor spindle.





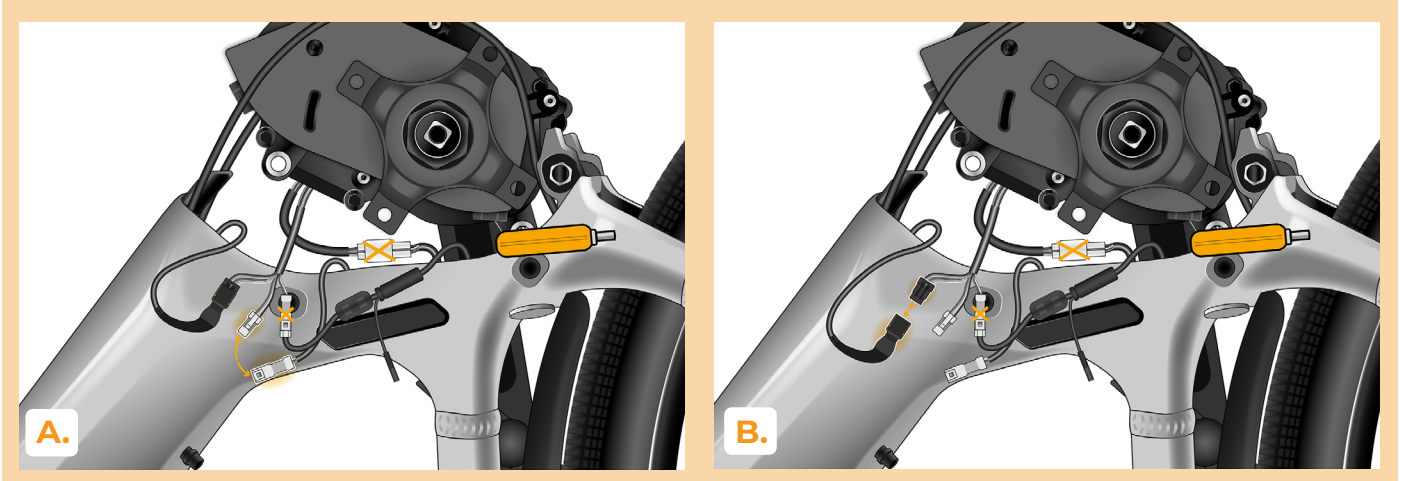
STEP 4: Motor release

- A.** Unscrew the two bolts closer to the front wheel using a 6 mm Allen key and remove them. Only loosen the bolt near the rear wheel.
- B.** Slightly pull out the two cables routed through the frame around the motor so that you can tilt the motor out.
- C.** Carefully tilt the motor out of the e-bike frame to gain access to the motor connectors and wiring. Secure the motor using an Allen key or a screwdriver.



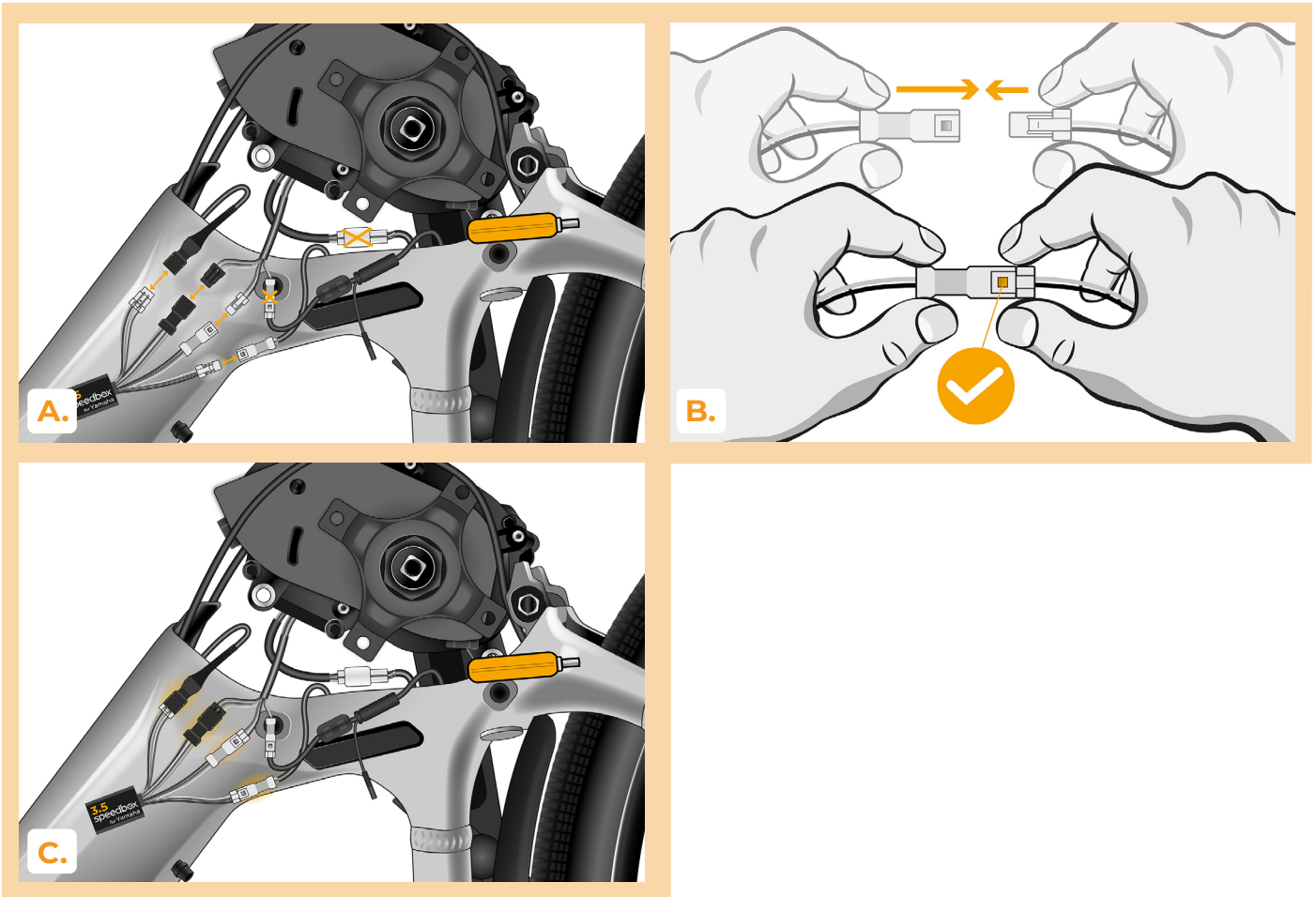
STEP 5: Disconnecting the connectors from the motor

- A.** Disconnect the speed sensor cable connector.
- B.** Now disconnect the connector of the cable running from the motor to the display.



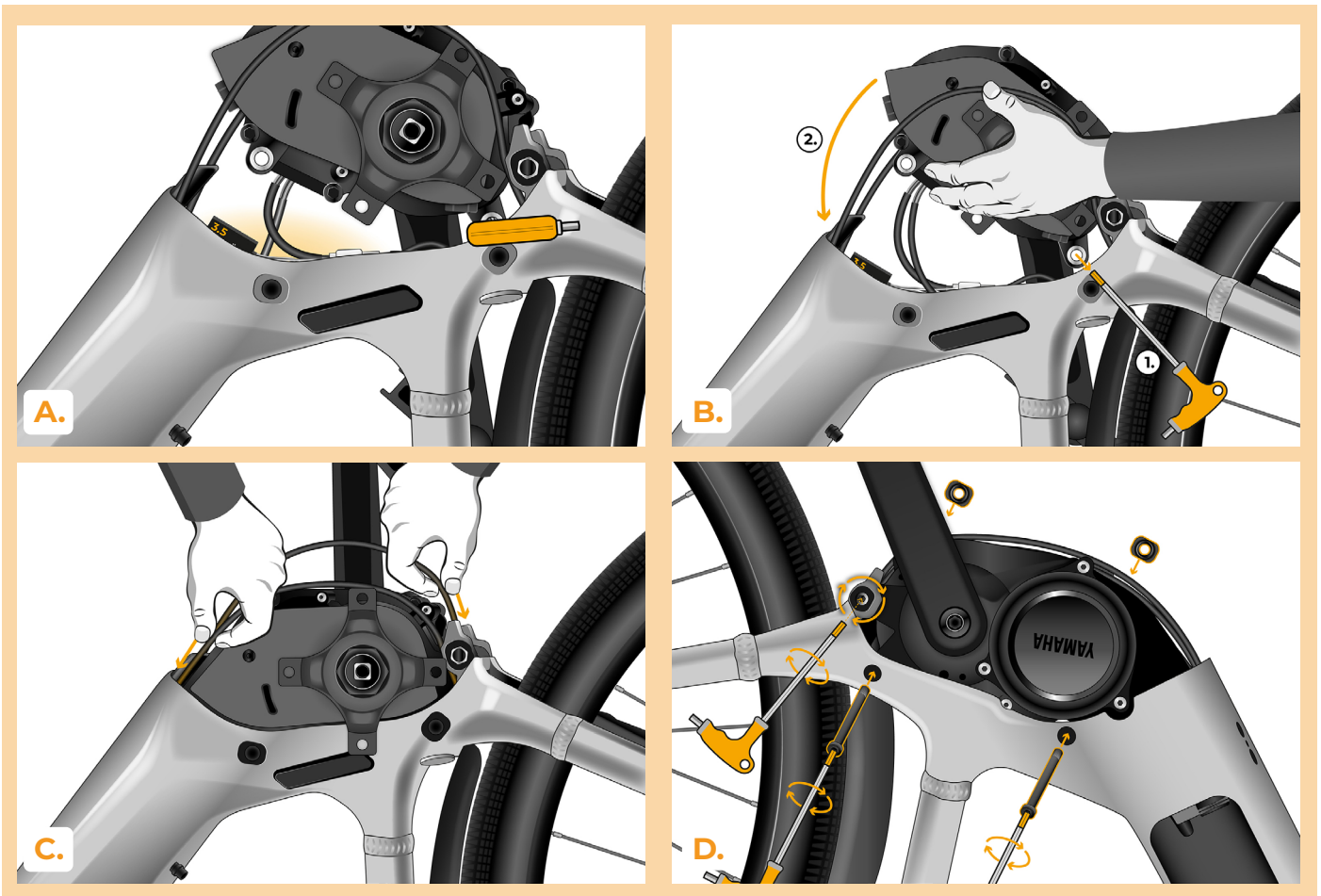
STEP 6: SpeedBox tuning installation

- A.** Plug SpeedBox into the disconnected connectors (step 5).
- B.** Make sure that the locks on the connectors are seated properly.
- C.** Before assembling the motor, check the correct wiring as shown in the figure.



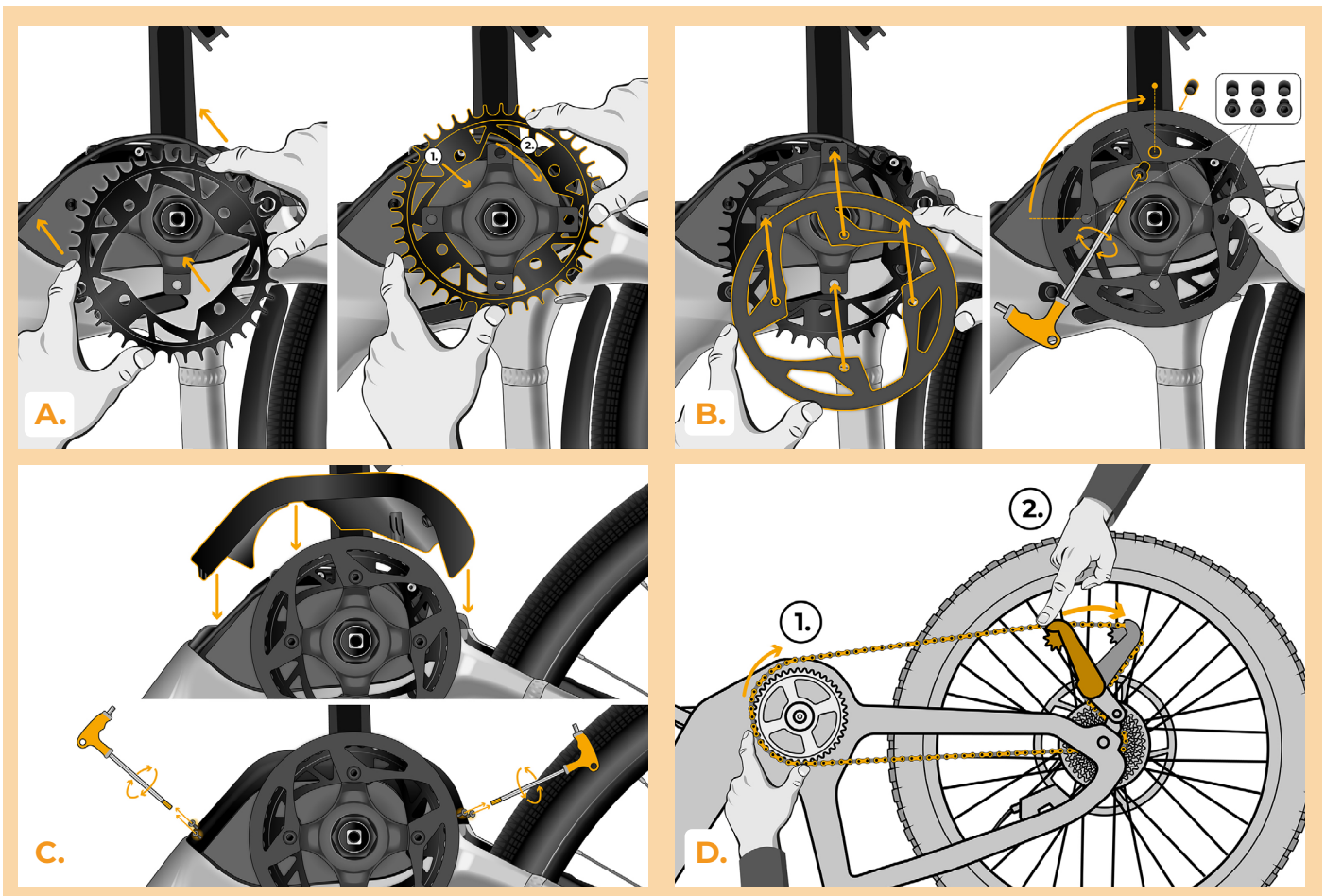
STEP 7: Reinstalling the motor into the e-bike frame

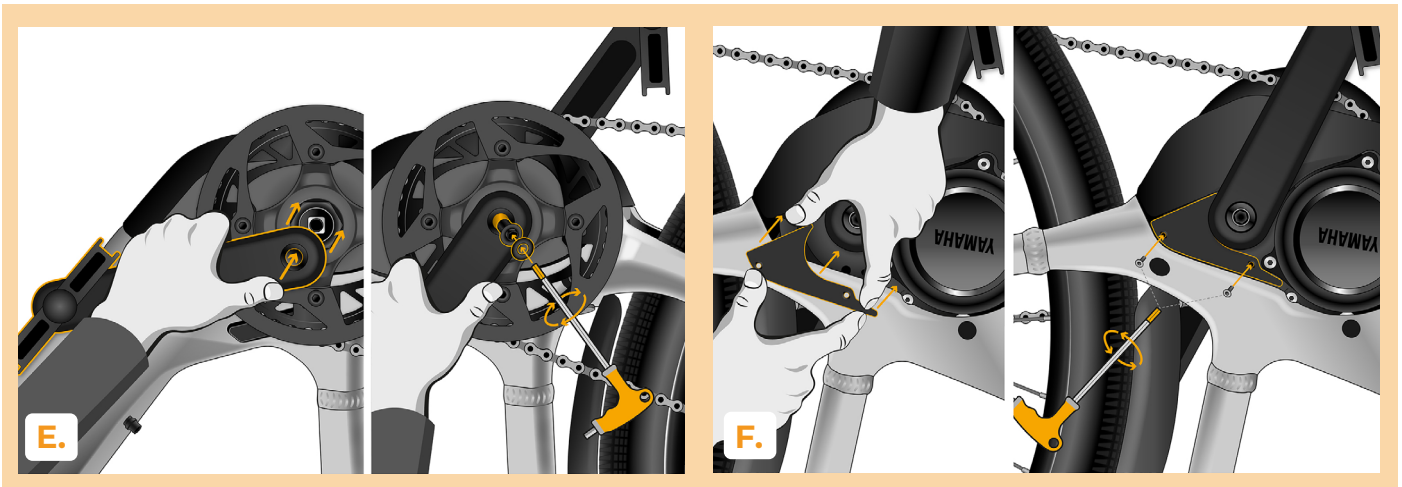
- A.** Place the connectors and wiring, together with the SpeedBox tuning unit leading from the motor, back into the free space in the e-bike frame.
- B.** Return the motor to its original position and make sure that the cables are not damaged.
- C.** Pull the cables back into the e-bike frame so that they do not obstruct the installation of the motor cover.
- D.** Reinstall the two screws securing the motor in the frame and tighten them properly. Then tighten the third screw that was previously loosened.



STEP 8: Reinstalling the chainring and crank

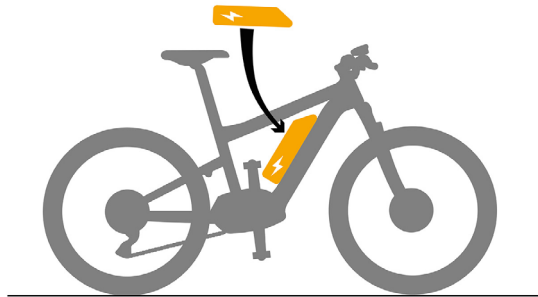
- A.** Reinstall the chainring onto the motor spindle.
- B.** Position the chainring cover onto the spindle. Together with the chainring, fasten it to the motor spindle. For easier access, work in the upper area above the motor and rotate the chainring by 90° each time to reach all four screws.
- C.** Reinstall the motor cover and tighten all screws using a 2.5 mm Allen key.
- D.** Reinstall the chain onto the chainring.
- E.** Install the crank onto the motor spindle and tighten it using an 8 mm Allen key. Reattach the crank cap.
- F.** Reinstall the motor side cover and secure it with screws using a 2.5 mm Allen key.
- G.** Turn the e-bike back onto its tires.



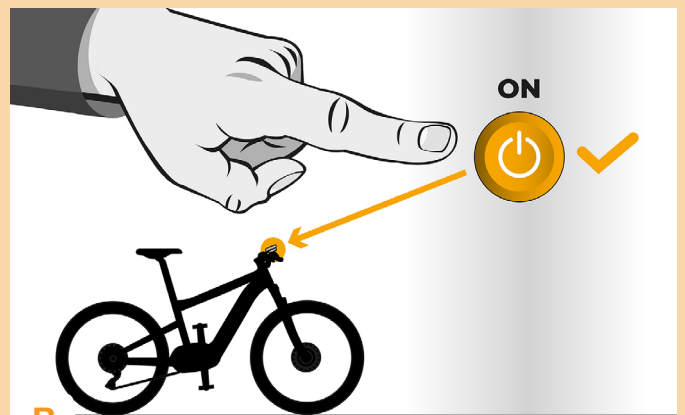


STEP 9: Tuning function check

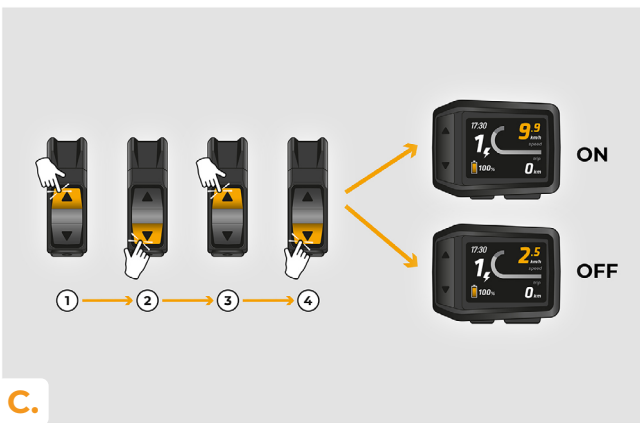
- A.** Place the battery back into the e-bike.
- B.** Turn the e-bike on.
- C.** Activate or deactivate the SpeedBox device using the handlebar controller or the display by switching between two assistance modes (↑ ↓ ↑ ↓) or (↓ ↑ ↓ ↑).
- D.** Spin the rear wheel and make sure that your e-bike displays the wheel speed on the display.



A.



B.



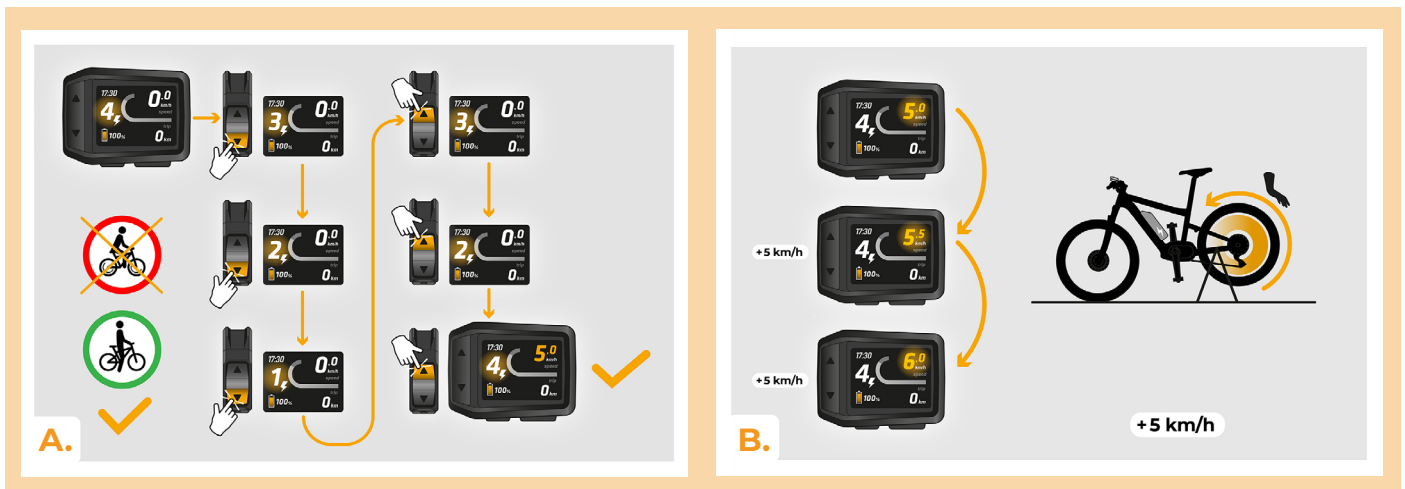
C.



D.

STEP 10: Setting the speed limit

- A.** Set the maximum assistance speed using the handlebar controller or the display by switching modes: ↓ ↓ ↓ ↑ ↑ ↑. The current speed limit will then be displayed on the screen.
- B.** Increase the maximum assistance speed by rotating the rear wheel by 360°. Each full rotation increases the limit by 5 km/h. The last displayed limit is saved after five seconds of inactivity.



www.speedbox-tuning.com

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