Service Information

TREK OCLV DOMANE ASSEMBLY AND MAINTENANCE



These instructions explain the unique assembly requirements of a Trek OCLV Domane frame: cable routing and adjustment of the chain keeper. They also explain how to remove and install the complete IsoSpeed mechanism.

These instructions are written for an experienced mechanic, so they do not explain basic assembly or procedures that might be critical to the product or the safety of the rider. If you need further assistance, consult a mechanic's manual or contact
Trek Customer Service.

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1. Thread the cable through the part(s) indicated in the diagram below.
2. Slide ‘cable donuts’ onto the cable.
   Note: Cable donuts prevent rattling from cable movement inside the frame.
3. Pass the cable through the frame and attach to the component it operates.
   Note: Take care to not cross the cables.
   Tip: place a light in the bottom bracket or head tube to illuminate the inside of the down tube.
4. Follow normal adjustment procedures.

Cable Guide Parts Kit

PN	Description
431218	Cable guide, bottom bracket Tube for bottom bracket cable guide Screw for bottom bracket cable guide Grommet, DuoTrap, inside of chainstay Frame cover, DuoTrap Screw for DuoTrap cover Screw for derailleur hanger Screw with o-ring, fender at chainstay bridge Screws, fender at dropouts Brake nut, long Cable stop, derailleur, head tube Cable stop, brake, head tube Cable stop, rear derailleur, rear dropout

Exploded Diagram

A Nut

B Ferrule

C Brake cable stop

D Double derailleur cable stop

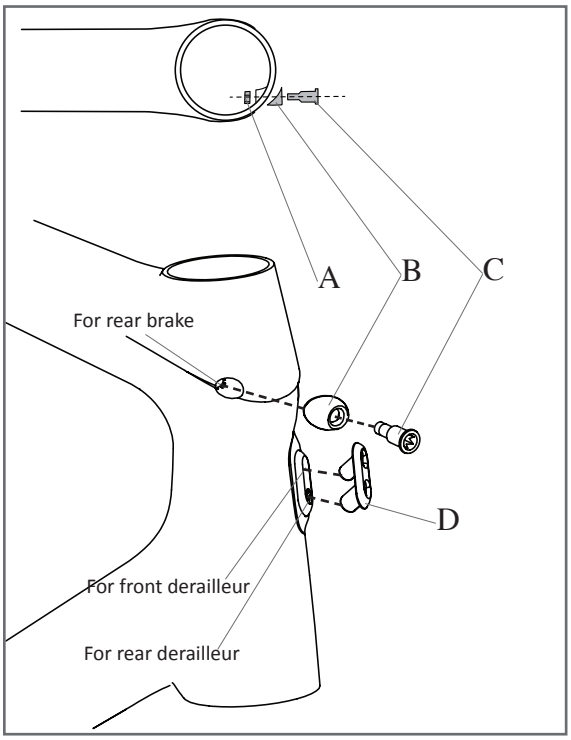


Figure 1. Head tube cable guides and cable routing

1. Determine the correct chain keeper for the gearing on the bicycle.
2. Install the screw through the washer and chain keeper.
3. Align the chain keeper as close to the chain as possible without contacting the chain.
4. Tighten the screw to 5Nm.

Exploded Diagram

A Chain keeper

B Concave washer

C Screw

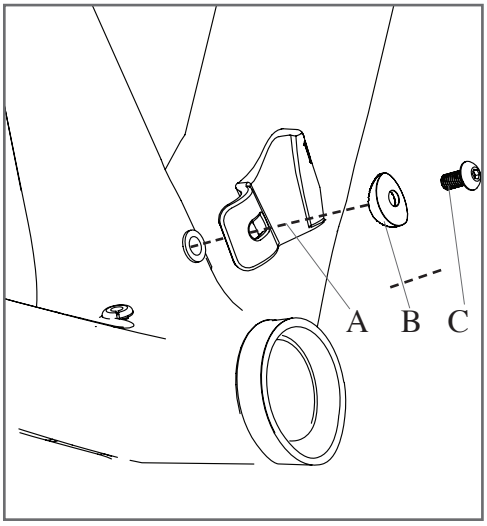


Figure 2. Chain keeper parts

Chain keeper Parts Kit

PN	Description
431223	Chain keeper, 36T- 42T Chain keeper, 30T- 36T Concave washer Screw

These instructions explain how to remove and install the IsoSpeed mechanism in a Trek OCLV Domane frame.

Service Interval

The IsoSpeed mechanism is designed to last the lifetime of the bicycle without service. However, if the mechanism makes noise or exhibits lateral play, the design allows easy replacement of the mechanism.

Tools required

- Small slot screwdriver
- Torque wrench with 5mm hex bit
- Padded wrench or similar flat, padded tool
- M8 x 1.0 bolt, at least 75mm long
- 2, 5, 6mm allen wrenches
- Mallet
- Safety glasses
- Grease: Finish Line Premium Teflon Grease, Rock N Roll Super Coat, or Extreme Pressure Grease #2 (LB80302)
- Thread locker (if re-using bolts)

IsoSpeed Parts Kits

PN	Description	Color
431213	Bolts, 2 Bearings, 2 Sleeve Internal cover Washer	
431228	External cover Cover screw	Smoke
431229	External cover Cover screw	White
431230	External cover Cover screw	Black

Exploded Diagram

A Bolt
B Bearing
C Sleeve
D Internal cover
E External cover
F Cover screw
G Washer

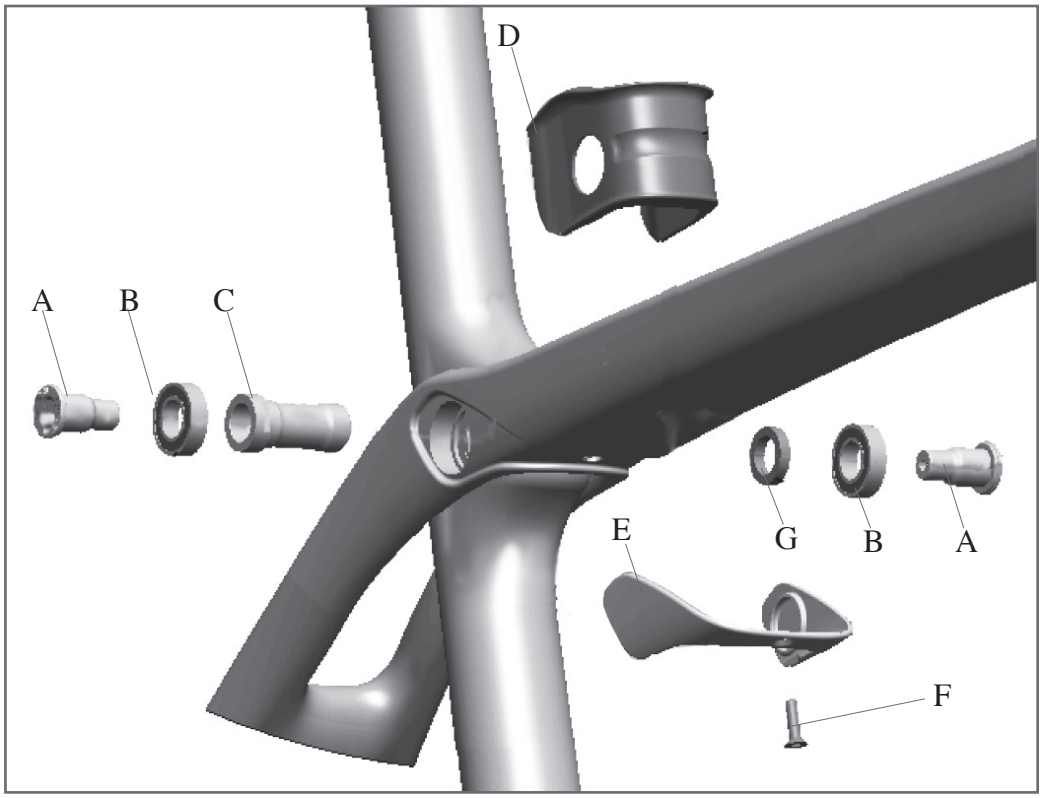


Figure 3. IsoSpeed parts diagram

1. With a padded tool, support a small slot screwdriver and pry off the external cover from the drive side of the IsoSpeed.

   Note: There is a small slot on the bottom, rear edge of each side of the cover. Pry straight out.

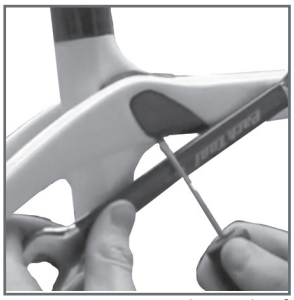


Figure 1. Prying out drive side of external cover

2. Repeat for the non-drive side.

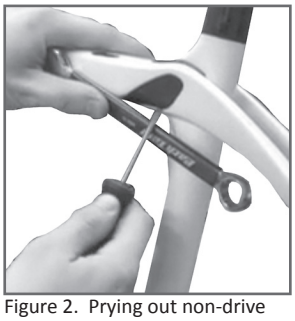


Figure 2. Prying out non-drive side of external cover

3. Remove the cover screw, and remove the external cover.



Figure 3. Removing cover screw

4. While holding the drive side bolt, remove the bolt from the non-drive side.



Figure 4. Removing non-drive bolt

5. Thread the M8 bolt into the non-drive side of the sleeve, and tap the sleeve out with a mallet.

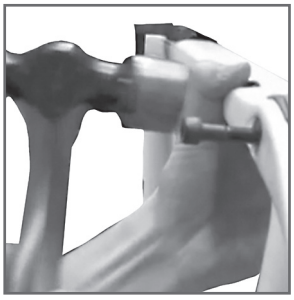


Figure 5. Driving out the sleeve

6. Unthread the M8 bolt from the sleeve, and remove the sleeve.

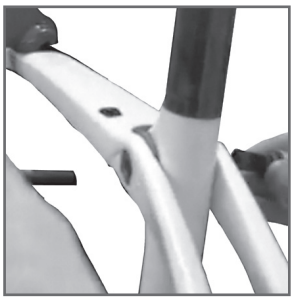


Figure 6. Removing M8 bolt from sleeve

7. While holding the sleeve with a 6mm allen wrench, remove the drive-side bolt.



Figure 7. Removing drive-side bolt from sleeve

8. With a 11mm socket and extension, tap out the washer and non-drive bearing.

   Note: Place a rag on the non-drive side to catch the parts as they slide out.



Figure 8. Removing non-drive bearing

9. By pressing upward, remove the internal cover.

   Note: To make room, pull the seat tube toward the back.

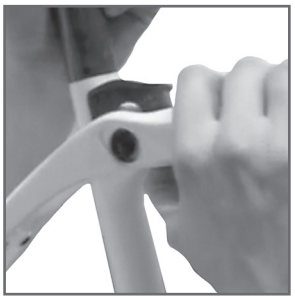


Figure 9. Removing internal cover

1. While pulling back on the seat tube, slide the internal cover into place.

Note: To seat the internal cover correctly, wiggle the seat tube forward and backward.



Figure 1. Installing internal cover

2. Check the alignment of the internal cover.



Figure 2. Internal cover aligned with frame

3. Apply grease to the sleeve and both inside and outside surfaces of the bearings.



Figure 3. Applying grease

4. With the large-diameter end of the sleeve on the drive side, install the sleeve from the drive side of the bike.

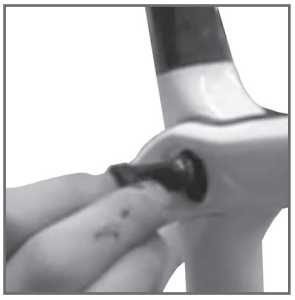


Figure 4. Installing sleeve in drive side

5. Place a bearing and then the washer onto a bolt, then thread the bolt into the non-drive side of the sleeve.

Note: If you are re-using a bolt, clean the threads and apply thread locker.

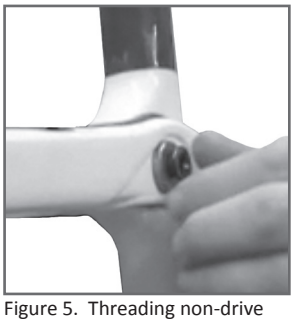


Figure 5. Threading non-drive bolt into sleeve

6. While holding the sleeve with a 6mm allen wrench, tighten the bolt until snug.

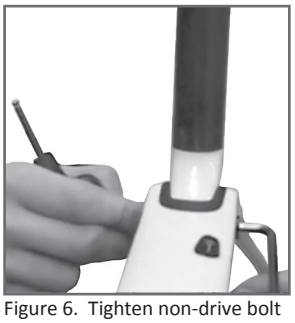


Figure 6. Tighten non-drive bolt

7. Place the second bearing onto the second bolt, then thread the bolt into the drive side of the sleeve. Tighten until snug.



Figure 7. Threading drive-side bolt into sleeve

8. Hold the non-drive bolt with an allen wrench. With a torque wrench, tighten the drive side bolt (8Nm).

Note: The bearing might need to be seated into the frame, so 'click' the wrench several times.

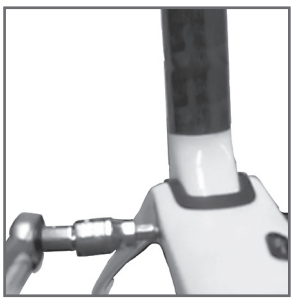


Figure 8. Tighten drive-side bolt with torque wrench

9. Repeat the tightening process with the torque wrench on the non-drive side.

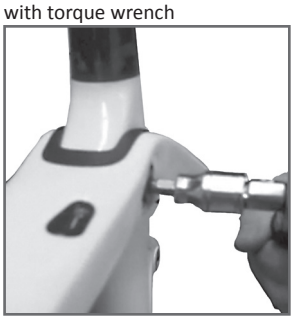


Figure 9. Tighten non-drive bolt with torque wrench

10. Slide the external cover onto the frame.

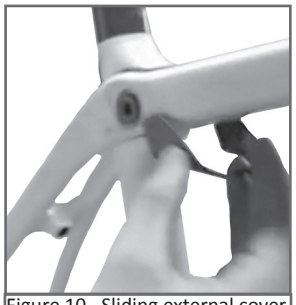


Figure 10. Sliding external cover over bolts

Note: Press firmly, directly over the bolt, to snap the cover into place.



Figure 10b. Pressing directly over bolt

11. Install the cover screw.



Figure 11. Installing cover screw