

## Drivetrain maintenance

Some Riese & Müller E-bikes use an additional idler for the belt or chain. The idler position keeps the belt/chain tension nearly constant over the rear travel. The maintenance is described separately for each model.

⚠ **Never** change the sprocket size. The belt/chain tension will not be constant enough and the drivetrain could be damaged!

### Culture city

1. Remove battery and fix E-bike at bikestand.
1. Check chain tension: rotate rear wheel backwards until chain tension reaches its maximum. Chain must be able to be displaced 4 up to 5mm (see arrow at fig. 1).

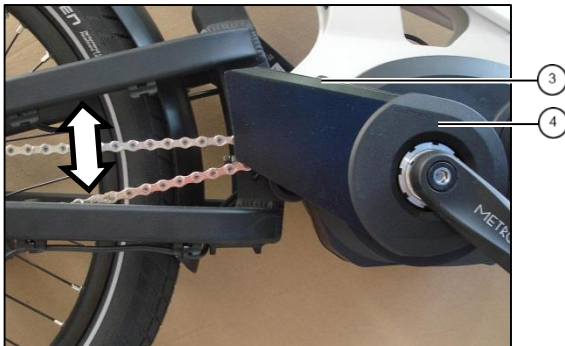


fig. 1: checking the chain tension

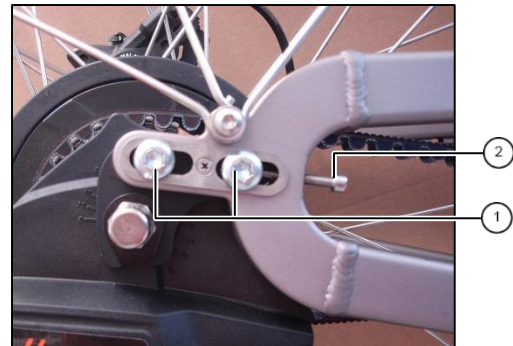


fig. 2: slider

2. Adjusting the chain tension: loosen slider bolts ① at both sides. Turn tension bolts ② equally at both sides (turn bolts in for higher tension, turn bolts out for lower tension). Tighten slider bolts.

**Tightening torque: 12 – 15Nm.**

3. Check chain tension again and repeat step 3 if necessary.
4. Checking idler:

remove right crank, remove bolt ③ and remove chain cover ④. Idler ⑤ must be lateral displaceable and free from damages. Bolt ⑥ must be tight. **Tightening torque 4 - 5Nm.**

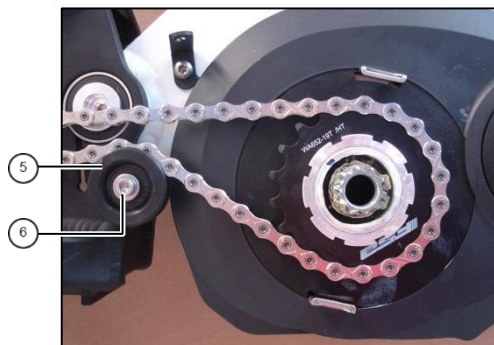


fig. 3: idler

⚠ The chain tension increases a little while the suspension gets compressed. In order to avoid idler wear **do not adjust chain tension too high.**

**Culture nuvinci and Culture automatic**

1. Remove battery and fix E-bike at bikestand.
2. Check belt tension according to Gates manual. Or do acoustic check with App (<http://de.gatescarbondrive.com/Tech/Overview>). We recommend a frequency of 35Hz (pluck upper belt section and measure frequency).



fig. 4: checking the belt tension

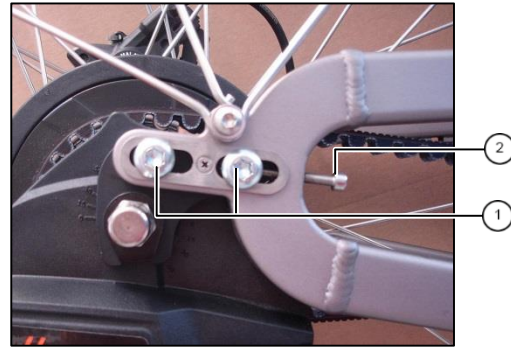


fig. 5: Slider

3. Adjusting the belt tension:  
loosen slider bolts ① at both sides. Turn tension bolts ② equally at both sides (turn bolts in for higher tension, turn bolts out for lower tension). Tighten slider bolts.

**Tightening torque: 12 – 15Nm.**

4. Check belt tension again and repeat step 3 if necessary.
5. Checking the idler:  
remove right crank. Remove bolt ③ and remove chain cover ④. Idler ⑤ must be in center of belt and free from damages. Bolt ⑥ must be tight. **Tightening torque 4 – 5Nm.** Guide plate ⑦ (inner belt side, see fig. 7) must be tight and point to rear upper side.



fig. 6: chain cover

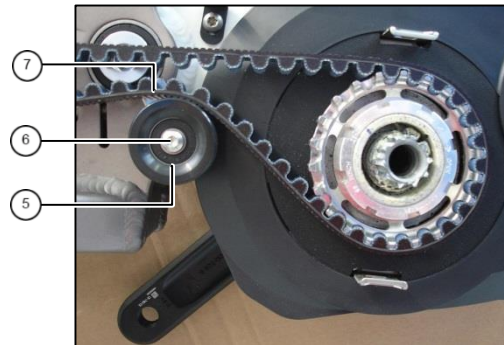
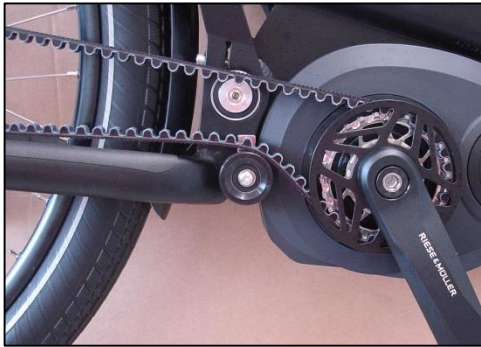
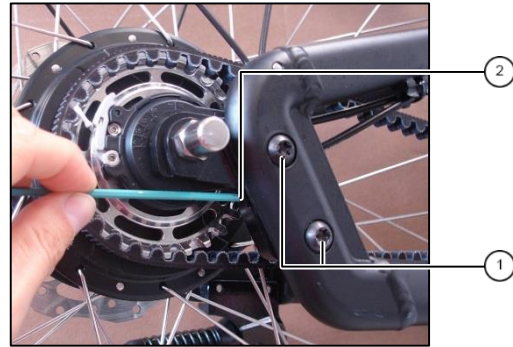


fig. 7: idler and guide plate

- ⚠ The belt moves a little bit to the left side while moving the E-bike backwards. This is not critical and the belt moves back to the center after starting to ride.

**Delite nuvinci / rohloff and Homage nuvinci/rohloff**

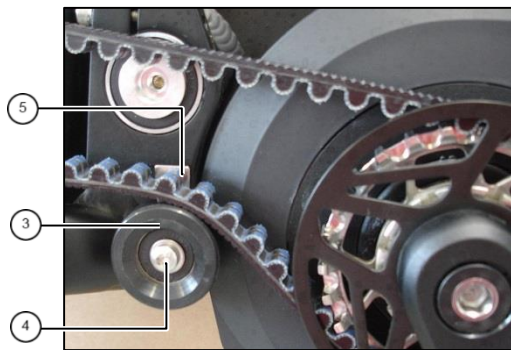
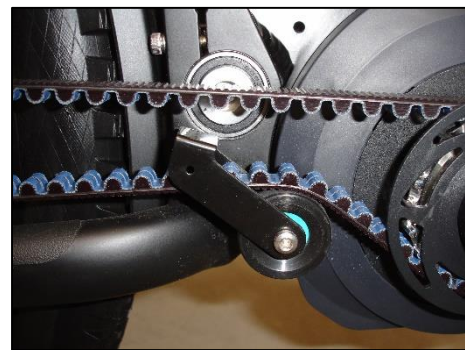
1. Remove battery and fix E-bike at bikestand.
1. Check belt tension according to Gates manual. Or do acoustic check with App (<http://de.gatescarbondrive.com/Tech/Overview>). We recommend a frequency of 35Hz (pluck upper belt section and measure frequency).

**fig. 8: checking the belt tension****fig. 9: slider**

2. Adjusting the belt tension:  
loosen slider bolts ① at both sides. Turn tension bolts ② equally at both sides (turn bolts out for higher tension, turn bolts in for lower tension). Tighten slider bolts.

**Tightening torque: 12 – 15Nm.**

3. Check belt tension again and repeat step 3 if necessary.
4. Checking the idler:  
idler ③ must be in center of belt and free from damages, Bolt ④ must be tight. **Tightening torque 4 – 5Nm.** Guide plate ⑤ (inner belt side, see fig. 10) must be tight and point to rear upper side.

**fig. 10: idler and guide plate at nuvinci****fig. 11: idler at rohloff**

- ⚠ The belt moves a little bit to the left side while moving the E-bike backwards. This is not critical and the belt moves back to the center after starting to ride.
- ⚠ The chain tension decreases a little while the suspension gets compressed.. This is not critical.