









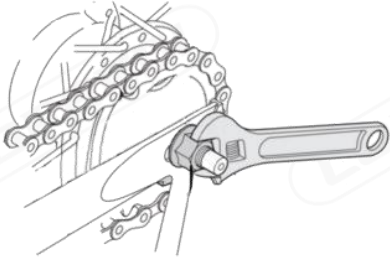
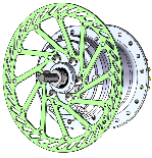
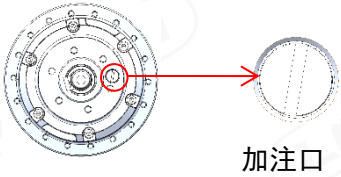
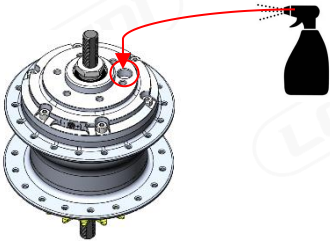
Vvolt AutoShift3 Maintenance

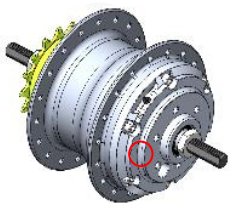
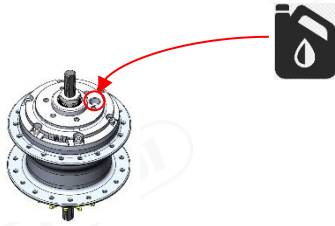
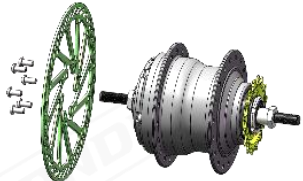
The Vvolt AutoShift3 Hub is designed with a sealed structure, providing you with the peace of mind that it effectively prevents the entry of debris such as mud and sand. This means it requires no daily maintenance or servicing, making it a convenient choice for your daily rides. To extend the lifespan of the gear system, customers should perform the first maintenance as follows after installation and riding for 6000 miles.

1. Tool List

No.	Product	Illustration	Applicable Specifications/Model Description	Quantity
1	Open-end Wrench		15mm	1PCS
2	Degreaser		Simple Green	420ml
3	Lubricating Oil		Any brand of uncontaminated fully synthetic oil for automotive transmissions.	310ml
4	Torx wrench		T25 (for disassembling/assembling disc brake screws)	1PCS
5	Flat-head screwdriver		5-8mm	1PCS
6	Syringe		Capacity $\geq 150\text{ml}$ with an M5 fitting	1PCS

2. Maintenance Steps

Step	Illustration	Description
1		<ol style="list-style-type: none"> 1. Loosen the axle nuts on both sides of the rear dropout. 2. Remove the rear wheel from the drop out
2		<p>Remove 6 screws of M5*10 and the disc brake rotor</p> <p>Tool required: T25 Torx wrench</p>
3		<p>Remove the filler port valve (referred to as "A" hereafter)</p> <p>Tool required: Flat-head wrench</p>
4		<ol style="list-style-type: none"> 1. Affix syringe to the port and inject 140ml of Simple Green into the transmission. 2. Install valve "A" and tighten it with a torque of 0.9-1.1 N·m. 3. At a speed of 12 mph, manually spin the wheel for 1 mile <p>Tools required: 1. Syringe 2. Flat-head wrench</p>

5		<p>1. Remove valve "A" and drain the Simple Green from the filler port.</p> <p>2. Repeat steps 4 and 5 three times.</p> <p>Tool required: Flat-head wrench</p>
6		<p>1. Switch to the oil—inject 140ml into valve "A" and repeat steps 4 and 5 twice.</p> <p>2. Finally, inject 30ml of oil, install valve "A" and tighten it with a torque of 0.9-1.1 N·m.</p> <p>Tools required: 1. Syringe 2. Flat-head wrench</p>
7		<p>Install the disc rotor and torque to 5-10nm per bolt</p> <p>Tool required: T25 Torx wrench</p>
8	—	Reinstall the wheel onto the rear dropout

3.Reminder!

- The above content applies to all products of the automatic 3-Speed Internal-gear Hub system.
- After the initial maintenance, subsequent maintenance should be performed every 3000 miles of riding.
- Used cleaner and oil must be properly recycled to avoid environmental pollution.
- After cleaning with Simple Green three times as per the above method, be sure to clean twice with oil.
- Have fun! Ride bikes.