

1. GENERAL INFORMATION

1.1 Scope of this leaflet

Congratulations on your purchase of a Sturmey-Archer internal gear hub. For the best performance, please follow instructions in this leaflet. Please contact your dealer if any problems are experienced with these products.

Riding the gear hub out of correct adjustment may cause damage to the internal parts and possible malfunction !

This leaflet refers to the following 3-speed hubs:

- ⊙ Type CS-RF3 3-speed freewheel hub, without brake
- ⊙ Type CS-RK3 3-speed hub for disc brake.

1.2 Lubrication

No routine lubrication is required. During a major service, the hub greases should be replenished or replaced especially for transmission parts of internal hub. Please contact your Sturmey-Archer dealer who is equipped to carry this out.

1.3 Gear Changing

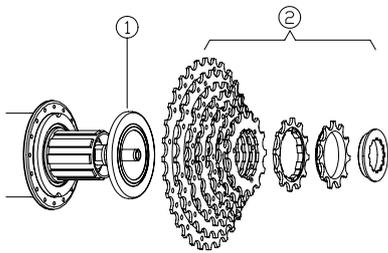
Continue pedaling, but ease pressure on the pedals and select the gear required. If the bicycle is stationary simply select gear required.

1.4 Gear Ratio

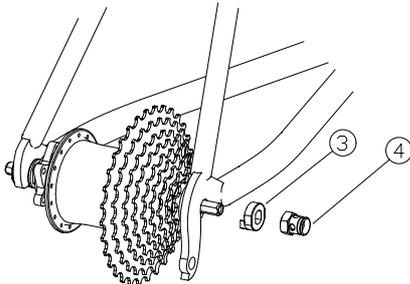
1st Gear 0.75 || 2nd Gear 1.0 || 3rd Gear 1.33

2. INSTALLATION

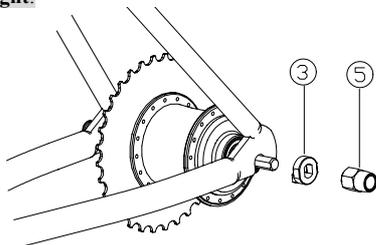
1. Build hub into complete wheel set.
2. Fit the dust-cup (1), cassette (2) onto the driver. **(Follow instructions from your cassette manufacturer for cassette lockring tightening specifications)**



3. Put the hub axle into the rear fork end and locate the right-side lock-washer (3) and guide nut (4), **Do not tighten the nut at this point.**

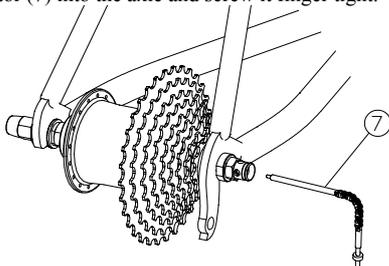


4. Fit the lock-washer (3), dome nut (5) on the left side of the axle. **Screw the nut finger tight.**

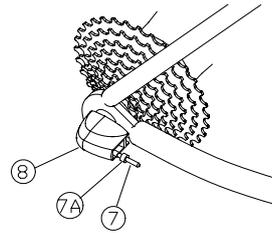


5. Align the wheel. Tighten the guide nut and dome nut to **28Nm**.

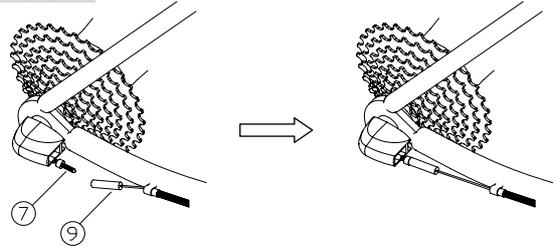
6. Fit the indicator (7) into the axle and screw it finger tight.



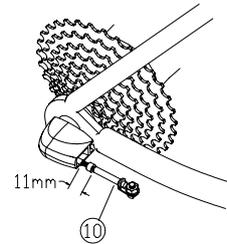
6. Put the cover (8) on the guide nut and unscrew the indicator (7) by up to half a turn if necessary to ensure easy routing through the cover. Do not push on the cover at this point.



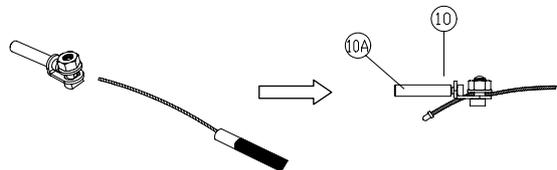
7. Connect the indicator (7) to the cable connector (9). If you do not have a pre-assembled cable connector, take the cable anchorage (10) instead and see step 7.1 and 7.2.



- 7.1 Connect the cable anchorage (10) to the indicator and leave about 11mm thread unscrewed.

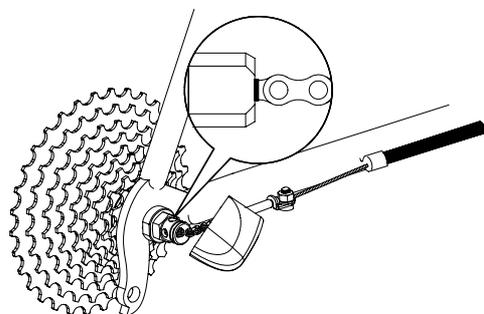


- 7.2 Insert the cable into the cable anchorage and tension the indicator. Tighten the nut to 4Nm.



3. GEAR ADJUSTMENT

1. Move the cover (8) for easy gear adjustment.
2. Select 2nd gear and turn the pedal crank forward to ensure the gear is engaged. Turn the connection (10A)/cable connector (9) or the cable adjuster of shifter until the coloured mark on the indicator is level with the end of the axle, as show in diagram.



3. Tighten the indicator locknut (7A) to lock in adjustment.
4. Select 3rd gear position, rotate the pedal crank, change back to 2nd gear and check adjustment. Retry the stages description above when the gear changing is not correct.
5. Fit the cover (8) firmly onto the guide nut (4).