

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 the instructions in this manual. 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 fixed gear hub types:

©3-speed Fixed Gear Hub : S3X

1.2 Lubrication

No routine lubrication is required. During a major service, the hub greases should be replenished or replaced, especially for internal hub transmission parts. 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 the gear required.

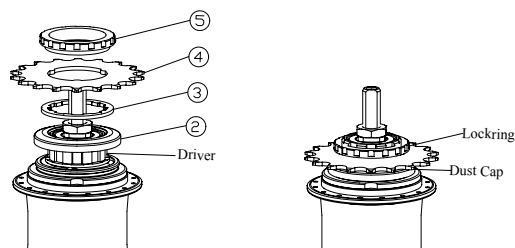
[!] DO NOT shift under loading. That will cause damage to the internal parts and malfunction easily.

1.4 Gear Ratio

Gear 1 : 0.625 Gear 2 : 0.75 Gear 3 : 1.0

2. INSTALLATION

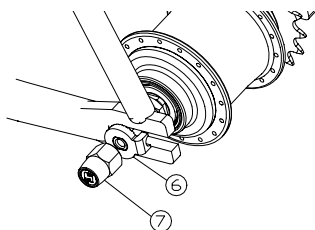
1. Build hub into complete wheel.
2. Fit the dust-cap (2), spacer (3), sprocket (4), lock-ring (5) onto the driver.



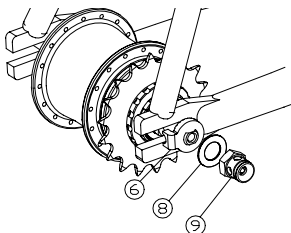
A proper chain line can be achieved by different arrangement of the spacers.

Chain Line options : 42, 43, 44, and 45mm

3. Tighten the lock-ring to **30Nm** with a crank adaptor installation tool.
4. Put the hub axle into the rear fork end and place the chain around the sprocket (4).
5. Fit the lock-washers (6) \ dome nuts (7) on the axle. **Screw the nuts finger tight. Do not tighten at this point.**

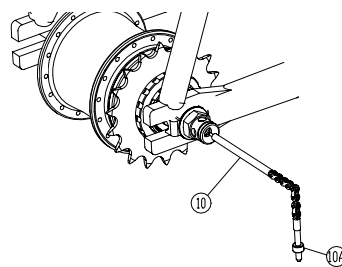


6. Locate the lock-washer (6) and guide nut (9). Insert a washer (8) if necessary. **Do not tighten nuts at this point.** Align the wheel and tension the chain.

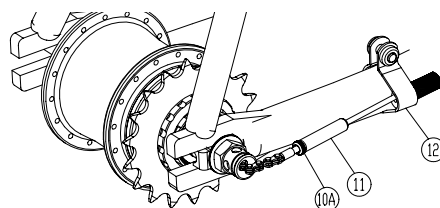


7. Tighten both nuts to **28Nm**.

8. Fit the indicator rod (10) into the axle and screw it finger tight.



9. Fit a clip (12) for supporting casing if necessary.
10. Ensure all components are fitted to the right side of axle. Unscrew the indicator rod by up to half a turn if necessary to ensure easy fitment with the cable connector (11). Connect the indicator (10) to the cable connector (11).



3. GEAR ADJUSTMENT

1. Select **2nd** gear and turn the pedal crank forward to ensure the gear is engaged. Turn the cable connector (11) until the coloured mark on the indicator chain is level with the end of the axle, as show in diagram.
2. Tighten the indicator locknut (10-A) to lock in adjustment.
3. Select **3rd** gear position, rotate the pedal cranks, change back to **2nd** gear and check adjustment. Repeat the stages described above when gear changing is incorrect.

