# Instructions: DUOMATIC Kick Shift 2-Speed Hubs

## 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 the adjustment may cause damage to the internal parts and possible malfunction !**

This leaflet refers to the following DUOMATIC kick shift 2-speed hubs:

- **Type S2 2-speed freewheel hub ,without brake**
- **Type S2C, B2C 2-speed hubs ,with coaster 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**

Gear shifting is activated by back pedaling slightly. Different chainring and sprocket combinations will require a different back pedal angle to activate shifting.

**1.4 Gear Ratio**

| | |
|---|---|
| 1st Gear 1.0 | 2nd Gear 1.38 |

**1.5 Brake Operation**

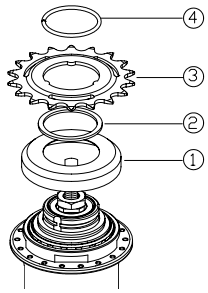
1.5.2 S2C, B2C

The coaster brake is activated by back-pedaling. To apply maximum braking effort, begin brake application when the pedals are horizontal. When descending down a long steep slope it is advisable to apply front and rear brakes alternately to prevent the coaster brake from overheating.

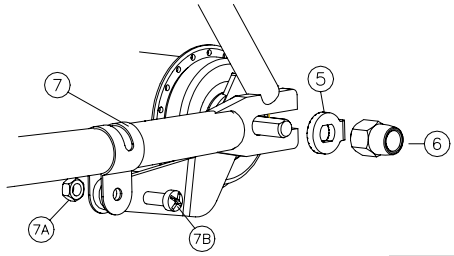
## 2. INSTALLATION

**2.1 S2C, B2C**

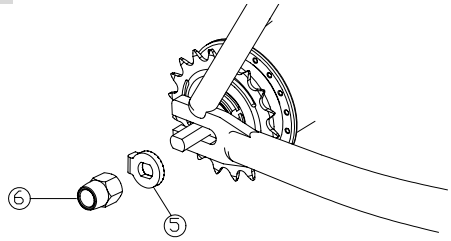
1. Build hub into complete wheel set.
2. Fit the dust-cup (1)、spacer (2)、sprocket (3)、circlip (4) onto the driver.




3. Put the hub axle into the rear fork end and place the chain around the sprocket (4).
4. Fit the lock-washer (5)、dome nut (6) on the left side of the axle. **Screw the nut finger tight**.
5. Fit brake arm into brake arm clip (7) with nut (7A) and bolt (7B). **Do not tighten at this point**.




6. Locate the right-side lock-washer (5) and dome nut (6), **Do not tighten nuts at this point**.




7. Align the wheel and tension the chain. Tighten both dome nuts to **28Nm** and the brake arm clip (14) nut to **7Nm**.

**2.2 S2 hub without brake.**

See section 2.1. No dust-cap (1) and spacer (2) requirement in Step 2. Step 5 is not applicable.


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