



# User Manual for KS3 3-Speed Bottom Bracket

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## 1. GENERAL INFORMATION

### 1.1 Scope of this leaflet

For the best performance, please follow the instructions in this manual. Please contact your dealer if any problems are experienced with the product.

This leaflet refers to the KS3, a kick shift 3-speed bottom bracket.

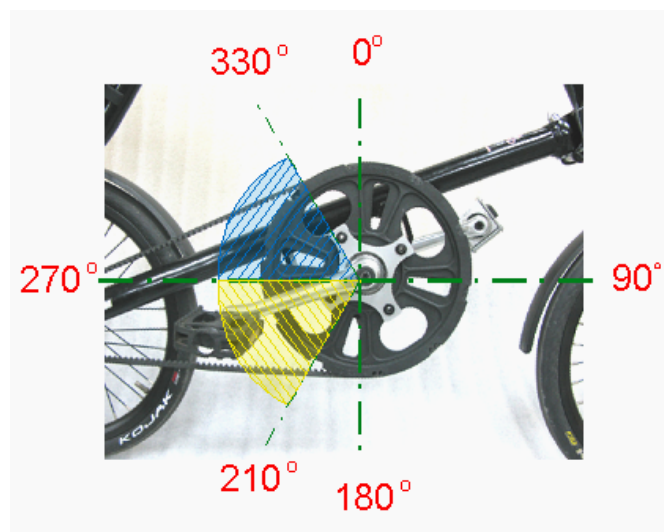
### 1.2 Lubrication

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

### 1.3 Gear Changing

1. Start to back pedal at blue zone (no matter right or left crank).
2. Continue back pedaling then gear shift occurs when the crank/pedal is across the horizontal line with a sound of click.
3. If you need to change to next two gear, just keep back pedaling until the second “click” occurs. Then pedal forward again, the gear has changed.

**Ensure you hear or sense the “click” then pedal forward, or it might cause damage and possible malfunction!**



### 1.4 Gear Ratio and Shifting Sequence

|           |      |
|-----------|------|
| Low Gear  | 0.79 |
| Mid. Gear | 1.0  |
| High Gear | 1.26 |



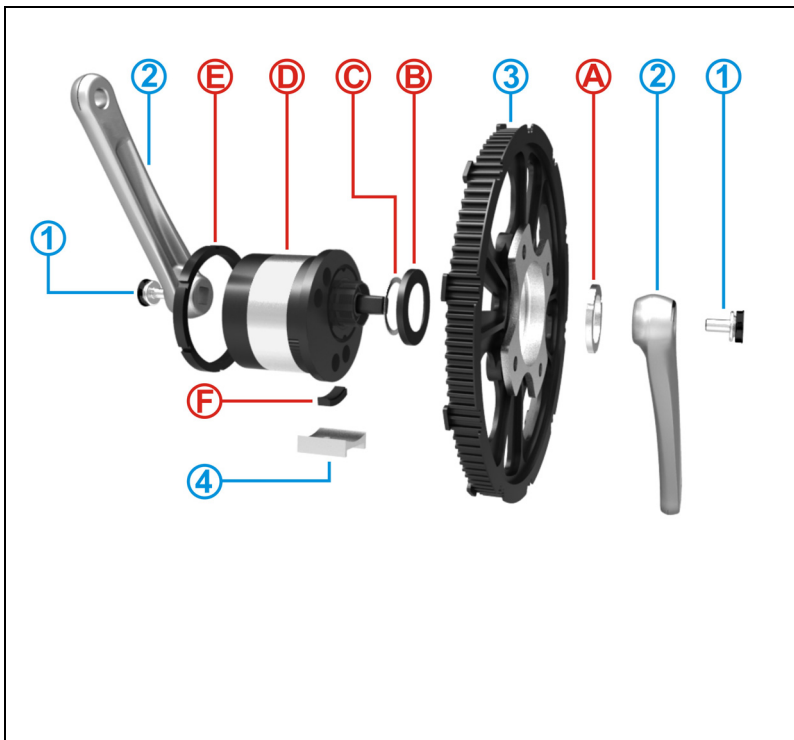
## 2. CAUTION

- ◆ Make sure that the KS3 internal lockring, kickstand bolt, driver lockring, and crank bolts are secured before riding.
- ◆ Do not stand on the pedal when you are riding or shifting, otherwise you may fall off the bicycle.
- ◆ Be careful with pedaling when shifting from high gear to low gear. A neutral gear phenomenon might occur shortly whilst pedaling fast because of big gear difference.
- ◆ Do not disassemble the KS3 internal. Please contact qualified dealer if any problem are experienced.
- ◆ The warranty does not cover disassembling the KS3 internal, normal wear, and improper installation and use.

## 3. NOTE

For easy shift, strongly recommend follow the gear shift steps as section 1.3, back pedal around top or bottom dead spot can shift though. It is not easy to operate shift around the two areas because feet can not kick back efficiently around the two areas.

## 4. PART LIST



The diagram shows an exploded view of the bottom bracket assembly. Red callouts A-F point to internal components: A (Driver Lockring), B (Dust Cap), C (Spacer), D (KS3 Internal), E (KS3 Internal Lockring), and F (Locating Block). Blue callouts 1-4 point to external components: 1 (Crank Bolt), 2 (Crank), 3 (Front Belt Wheel), and 4 (Kickstand Bracket).

| KS3 Parts   |                       |           |
|-------------|-----------------------|-----------|
| Item        | Description           | Sales No. |
| A           | Driver Lockring       | HSL974    |
| B           | Dust Cap              | HSL975    |
| C           | Spacer                | HMW545    |
| D           | KS3 Internal          | HSX170    |
| E           | KS3 Internal Lockring | HSA835    |
| F           | Locating Block        | HSL976    |
| Other Parts |                       |           |
| 1           | Crank Bolt            |           |
| 2           | Crank                 |           |
| 3           | Front Belt Wheel      |           |
| 4           | Kickstand Bracket     |           |

## 5. TIGHTENING TORQUE LIST

|                   |          |
|-------------------|----------|
| Driver lockring   | 35-45 Nm |
| Kickstand bolt    | 15 Nm    |
| Internal lockring | 50-60 Nm |
| Cranks bolt       | 35-45Nm  |