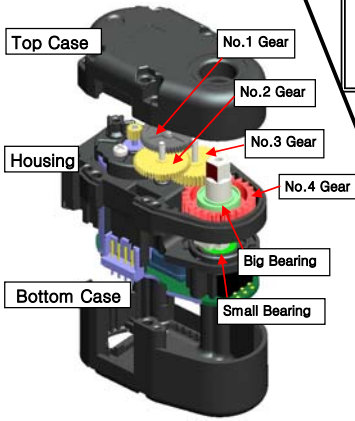


■ wCK Main parts name



※ wCK Module Gear Replacement when Module Gear was broken.
Model name : wCK-1108(K/T), wCK-1111(K/T)

■ Cautions:

- 1) This tutorial describes how to replace wCK module gear. This material is for robot professional user. Any responsibilities after disassembling wCK module goes to users. If damaged during assembling and disassembling procedures, users will not get free warranty service.
- 2) You must use proper Gear after checking wCK module name.
 - You can be known exact wCK module name by check stick in the center. (You will find two sticker, one is on the top case the other is on the bottom case.)
 - Silver sticker is for wCK-1108(K/T), and Gold one is wCK-1111(K/T).
- 3) wCK modules of 5710K, or 5710T-S02 are consisted of
 - wCK-1111 4 EA (ID No. 2, 3, 7, 8),
 - wCK-1108 12 EA (the rest No. IDs from No. 0 to 15)

■ Model Picture

wCK-1108K wCK-1111K



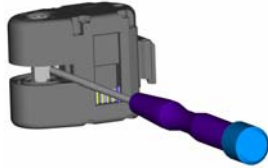
■ wCK Module Gear Comparison Guide

| | wCK-1108(K/T) | wCK-1111(K/T) |
|------------|--------------------------------|---------------|
| No. 1 Gear | wCK-1108, wCK-1111 common part | wCK-1111 only |
| No. 2 Gear | wCK-1108 only | wCK-1111 only |
| No. 3 Gear | wCK-1108 only | wCK-1111 only |
| No. 4 Gear | wCK-1108 only | wCK-1111 only |

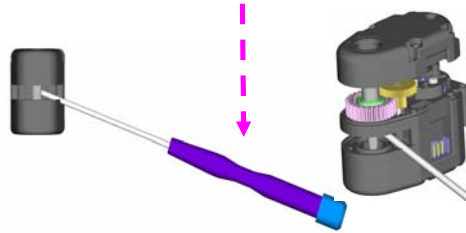
① Unscrew 5 bolts by using "+" screw driver.



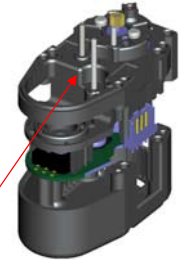
② Put "+" screw driver into No.4 Gear as shown in the figure.



③ Press the "+" screw driver to the down side as shown in the figure by using screw driver, then, detach the Top case.



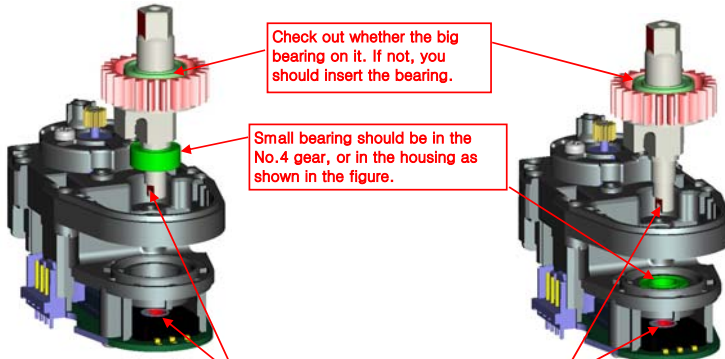
④ Take out the gears to upside as shown in the figure, then, detach the bottom case.



Some wCK modules do not have fixing screw in this position. It is totally OK, even if you do not assemble it.

Check out if there is any debris or broken pieces on the normal gear, housing or top case. If so, then, clean it.

⑤ Put grease on the No. 4 Gear, then assemble as shown in the figure.



Check out whether the big bearing on it. If not, you should insert the bearing.

Small bearing should be in the No.4 gear, or in the housing as shown in the figure.

Be sure to match the half-moon shape between sensor and No.4 Gear, then, put it in smoothly. If you put the gear strongly, sensor could be damaged.

No. 4 Gear's top part would be protrude around 1 mm if you put it in correctly from the housing.



1mm

⑥ Assemble the bottom case as shown in the figure. Insert 3 gear pins into the housing, then, put some grease on the No.3 Gear's teeth.

When you insert gear pins into the housing, put more power especially for No.1 Gear pin.



⑦ After put some grease on the No.2 Gear's teeth, assemble it as shown in the figure.



⑧ After put some grease on the No.1 Gear's teeth, assemble it as shown in the figure.



⑨ Assemble the top case, and screw the 4 bolts as shown in the figure. Lastly, screw the small bolts for top case fixing.

Some wCK modules do not have fixing screw bolt in this position. It is totally OK, even if you do not assemble it. And it is better not to screw it so tightly.

