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# Kenwood Chef: Replacement of planetary gear SER1018

Disassembling the gearbox to replace the...

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## INTRODUCTION

Disassembling the gearbox to replace the SER1018 planetary gearbox

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### TOOLS:

[Essential Electronics Toolkit](#) (1)

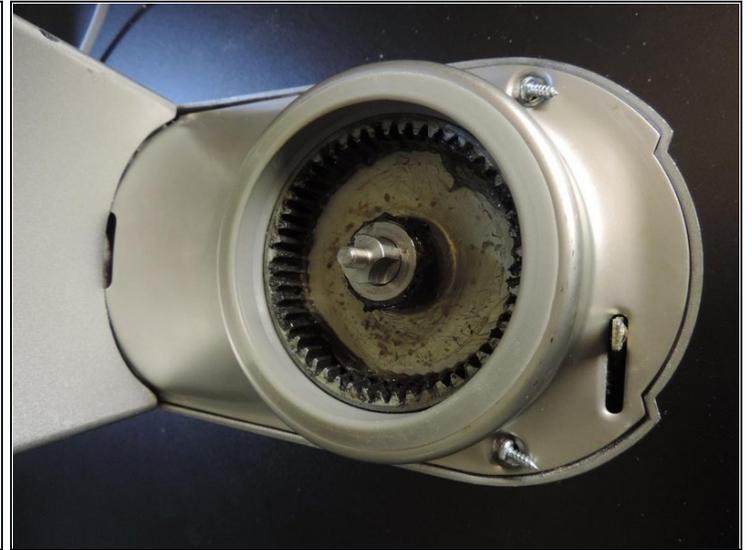
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### Step 1 — Remove the button from the locking lever



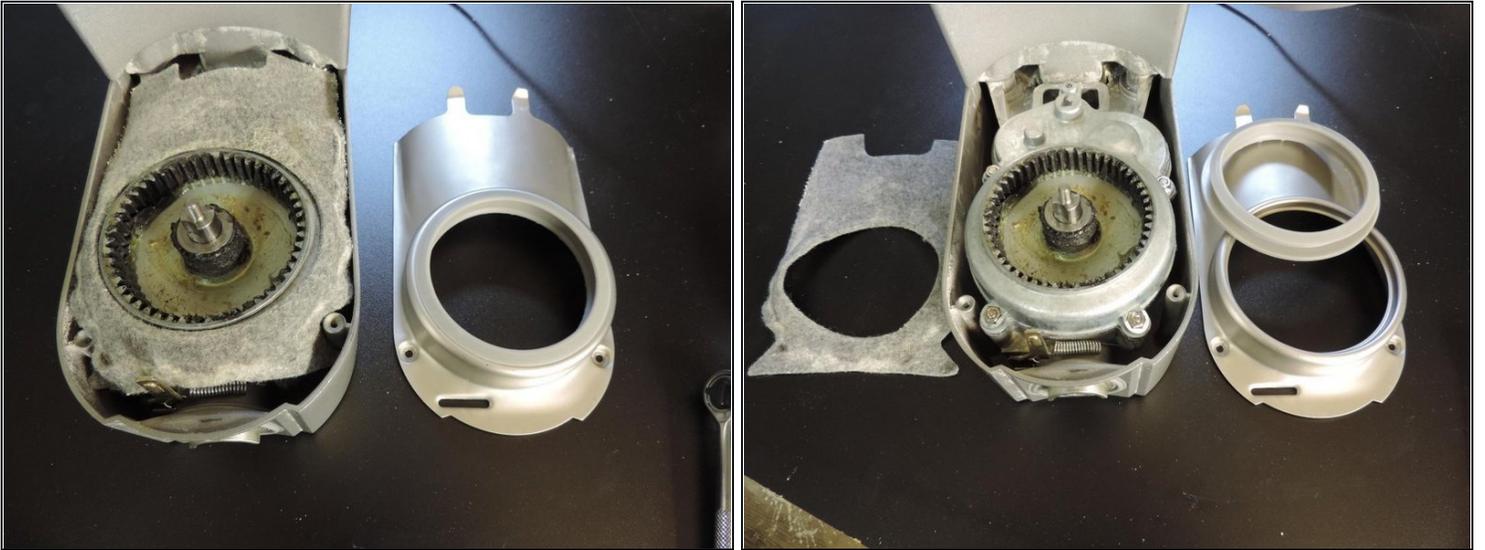
- Pull off the button
- Remove the white rubber grommet

## Step 2 — Removal of the planetary gearbox



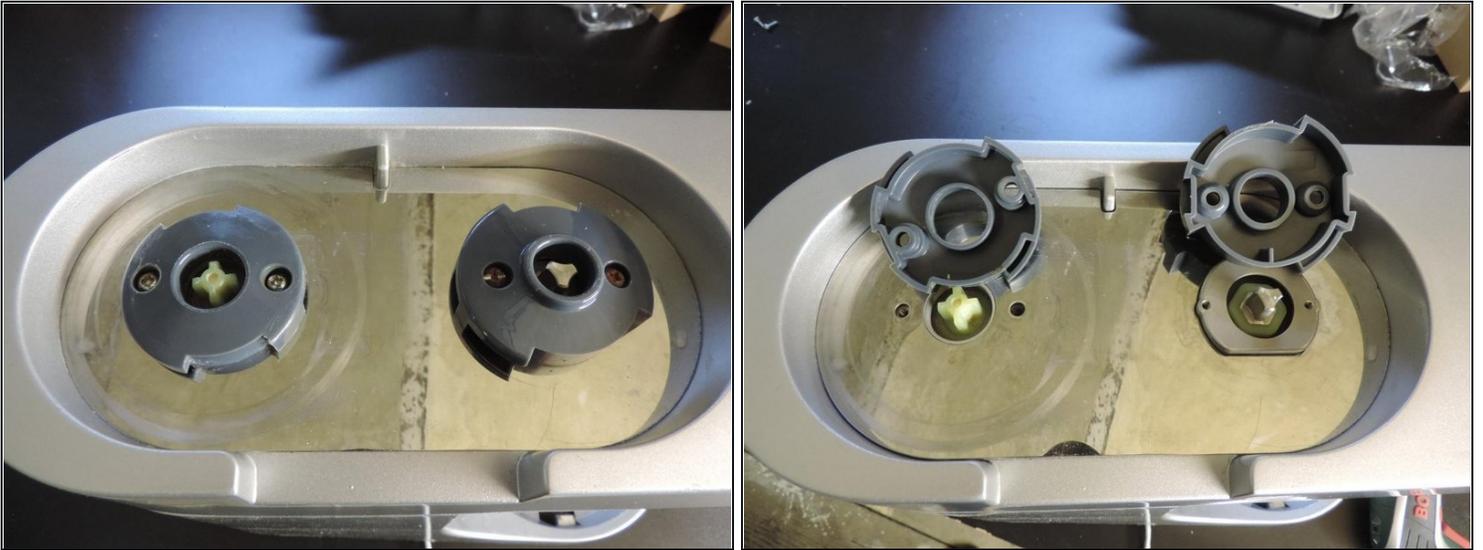
- Loosen the 6-point nut
- Pull the planetary gear **straight** out
- Loosen the Torx screws that hold the bottom of the case

### Step 3 — Bottom case



- Remove the bottom case
- The rubber gasket can be removed for cleaning
- Remove felt mat

## Step 4 — High and medium speed drive



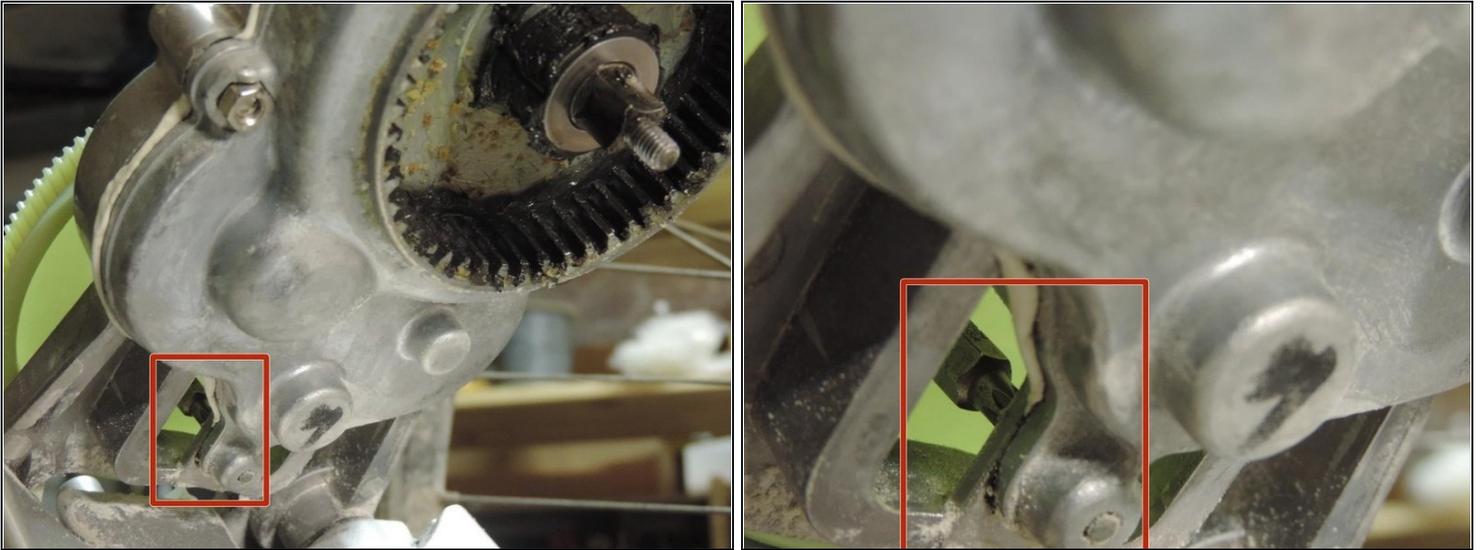
- Remove the Phillips screws to remove both plastic parts
- The plastic parts are different
- The screws are Imperial not Metric

## Step 5 — Top Housing Cover



- Remove the three torx screws
- Lift off the housing cover
- Pay attention to the white rubber buffer (red square)

## Step 6 — Challenge: Unscrew the hidden screw



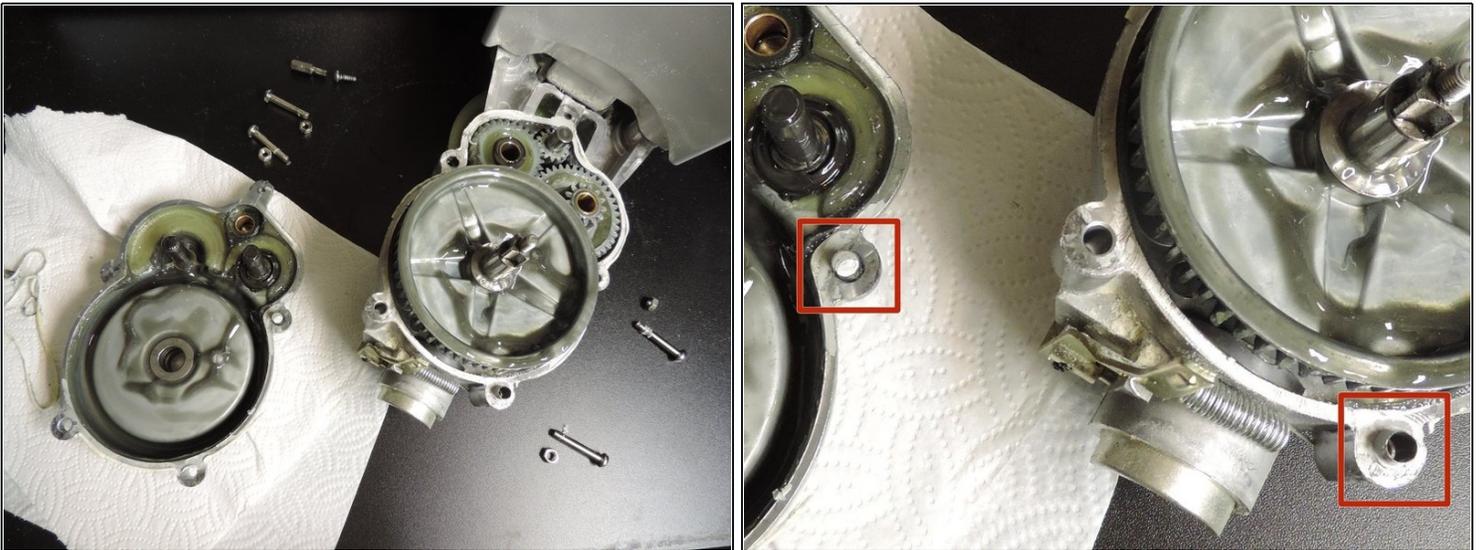
- ⓘ According to <https://www.ifixit.com/User/1765524/jens>, the plastic drive wheel can be unscrewed counterclockwise. To do this, the gearbox must be blocked. <https://www.ifixit.com/User/730246/Julie...> found a [YouTube video](#) documenting this. Starts at 7:25. Many thanks to Jens and Julien.
- If the plastic drive wheel was removed in the above step, the next step can be skipped.
  - Loosening the Tx20 screw hidden by the plastic drive wheel is challenging
  - I was not able to pull off the plastic drive wheel
  - If you want to take a chance, you can drill a hole in the plastic drive wheel. However, I did not have the courage to do so.
  - I made myself a special tool -> see next step

## Step 7 — Special Tool



- I machined a 6mm open end wrench to be form fit with the Tx20 bit
- A slot has been cut in the screw for easier re-assembly

## Step 8 — Open the gearbox housing



- Remove guides (marked in red). They can be used after closing the case.
- Remove seal. Has been replaced with silicone sealant.

## Step 9 — Planetary Gearbox



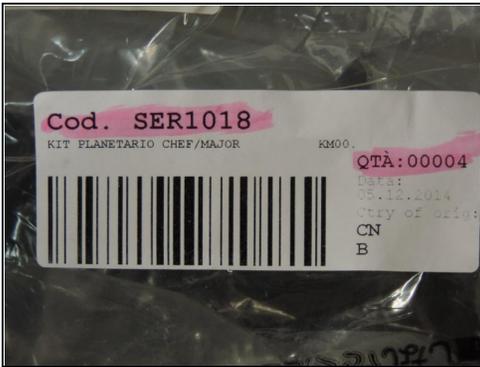
- The one with the cross drive is the old one
- The new one has a bayonet lock. However, the whisks and kneading hooks are in the same position, opposite of the mixing bowl.
- Difference in gear thickness doesn't seem to have an effect on the function.

## Step 10 — Drive Gear



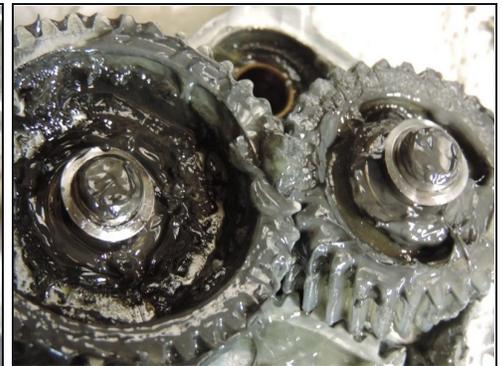
- The one with the cross drive is the old one

## Step 11 — Labels



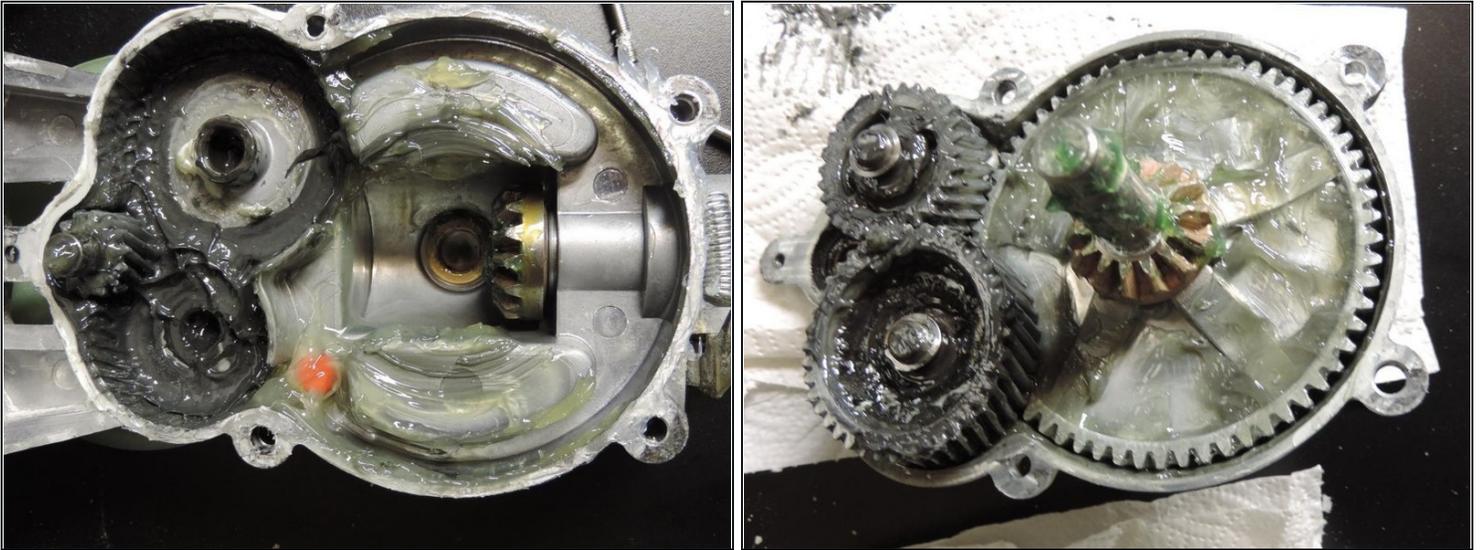
- Cod. SER1018: Label from the plastic bag containing the three spare parts
- Planetary gear label
- 6-point nut: label and part

## Step 12 — Insert Gears



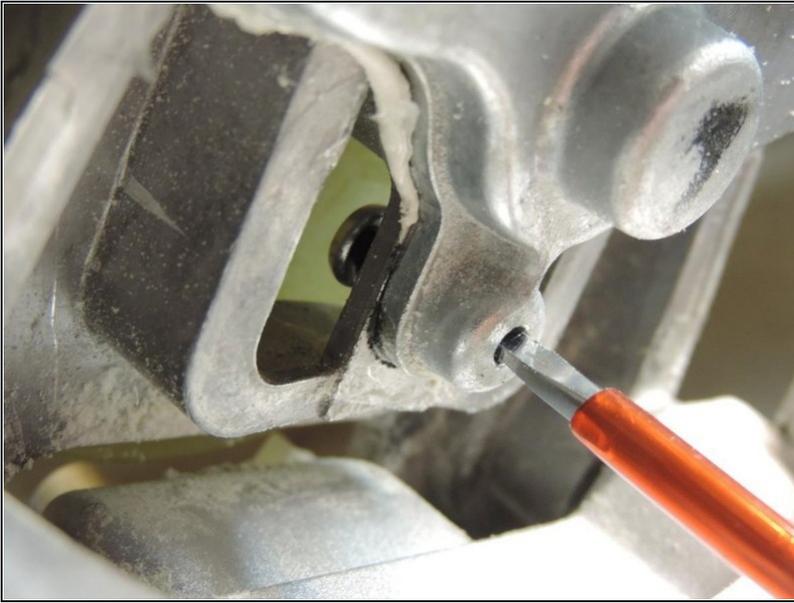
- Push each gear on its axis
- Be careful with the spacers

## Step 13 — Assemble the gearbox housing



- There is a lot of grease in the housing. Grease all the parts to be well lubricated.
- Replace seal. See step 8.
- Stand the machine upright on its feet and place the arm in the horizontal position. With the arm raised, the shaft falls out from the slow drive.
- Gently push the parts together.
- When disassembling, the screws were loose. That's why they were secured with a drop of screw lock.
- Introduce the guides into the right places

## Step 14 — Insert Hidden Screw



- Insert hidden screw
- Tighten with the special tool from step 7

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Continue from step 6 in reverse order to reassemble the device.