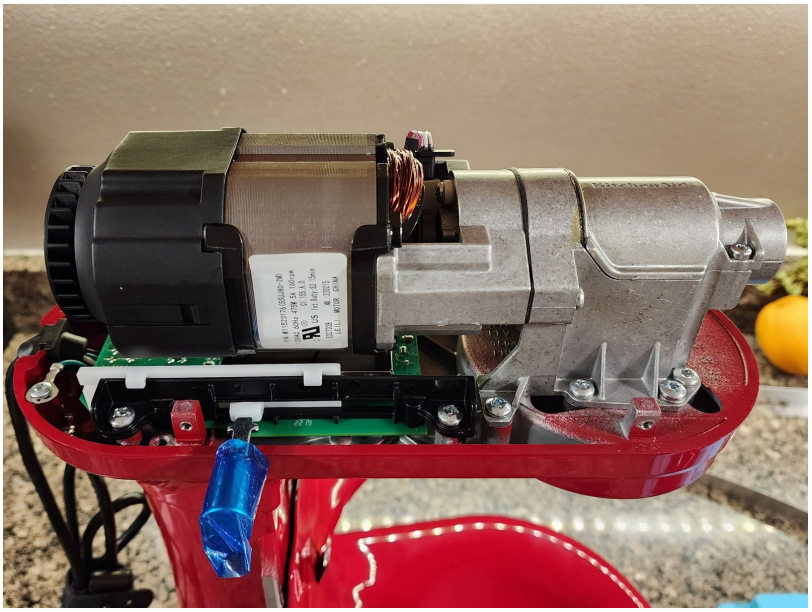
KitchenAid 5.5/6.0/7.0-quart Bowl-Lift Stand Mixers (Models: KSM55/KSM60/KSM70) - Powertrain/Motor Replacement

The powertrain is comprised of the motor, the...

Written By: PedroDaGr8



INTRODUCTION

The powertrain is comprised of the motor, the gearbox, and the transfer gears. **The transfer gears in the gearbox are a common failure mode for these models.** Unlike previous generations of KitchenAid AC Motor bowl-lift mixers, which had these components separated into discrete parts enabling easy replacement, these parts comprise a single unit in the updated models. If any part of this unit breaks (like the aforementioned gears), you will either need to find a donor unit from which you can source the parts or will need to replace the entire unit.

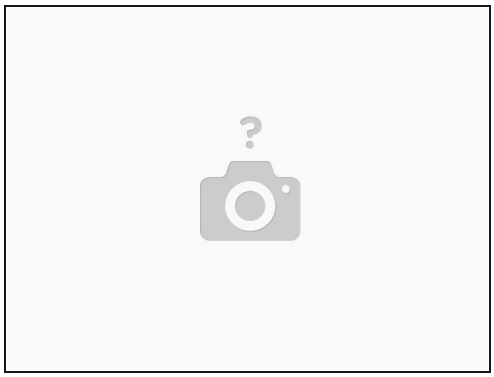
TOOLS:

Phillips #2 Screwdriver (1)
Torx T25 Screwdriver (1)
Dish Towel (1)
Pin Punch (1)
Alternately, can use a T15 Torx Screwdriver as a punch.
Hammer (1)
Megalodon Driver Kit (1)

PARTS:

Replacement Motor Assembly (Whirlpool Part Number: W11523176) (1)

Step 1 — WARNINGS!



⚠ Before starting ANY repair/disassembly of the mixer, make sure it is fully unplugged from the electrical outlet.

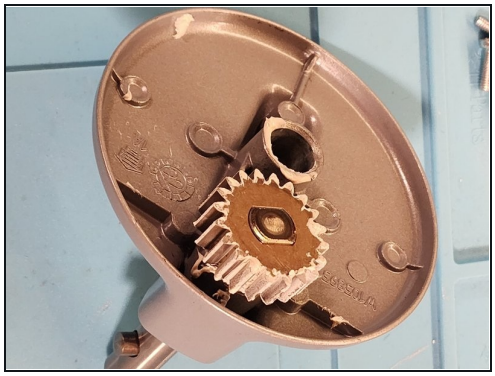
ⓘ While this model is not recommended for commercial use, if the mixer is being used in a commercial environment, a LOTO tag can be affixed via the hole on one of the prongs on the mains plug to prevent accidental activation.

⚠ The speed/motor control assembly contains capacitors which can retain their charge for an indefinite amount of time. These capacitors can present a significant and potentially fatal shock hazard.

Step 2 — Remove the Planetary Assembly







- Place a couple dish towels or other soft materials on the base to protect it from any potential impact.
- Disconnect the planetary from the motor drive shaft by removing the retaining pin (circled in yellow). You can do this with a hammer and either a pin punch or a Torx T15 screwdriver. Simply hammer the punch/screwdriver on the pin until it comes out the other side.
- If the planetary assembly doesn't fall out, you might have to give it a firm pull straight down to remove it.

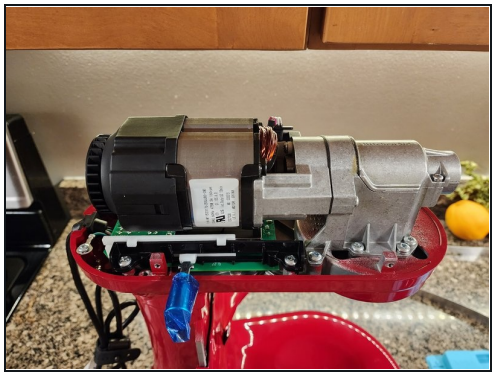
Step 3 — Remove the trim band



- Using a #2 Philips Screwdriver, remove the screw which holds on the trim band.
- Remove the trim band.

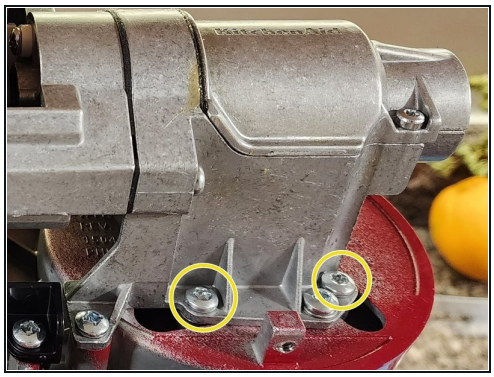
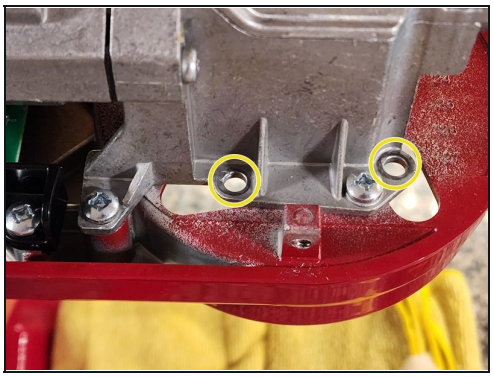
Step 4 — Remove the mixer cover



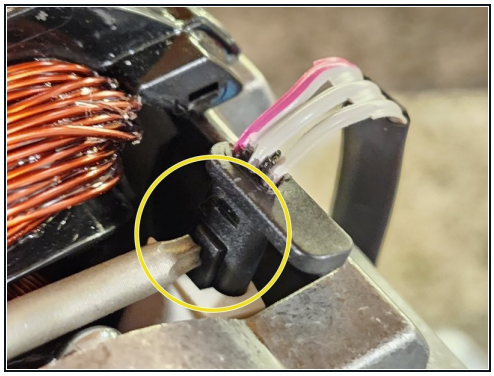
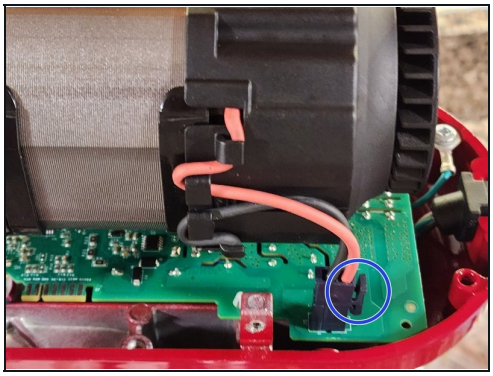
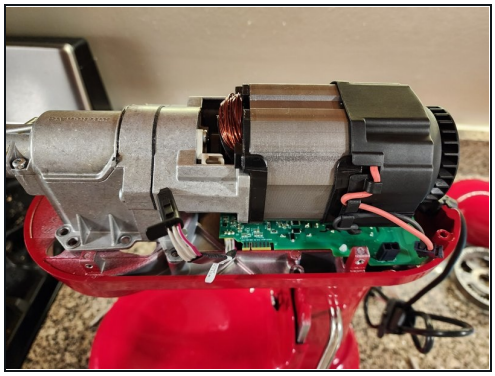
- Remove the four screws (circled in yellow, two on each side) using a #2 Philips Screwdriver
- Remove the cover by lifting it straight up.

Step 5 — Remove the main planetary gear

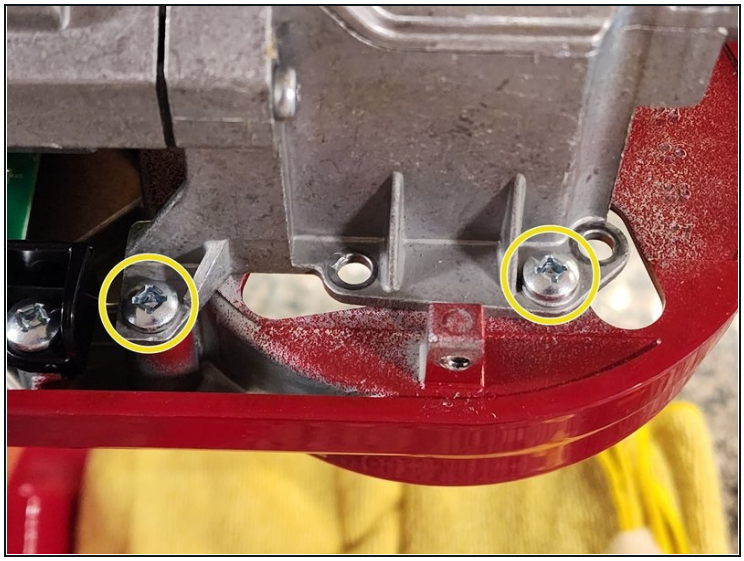
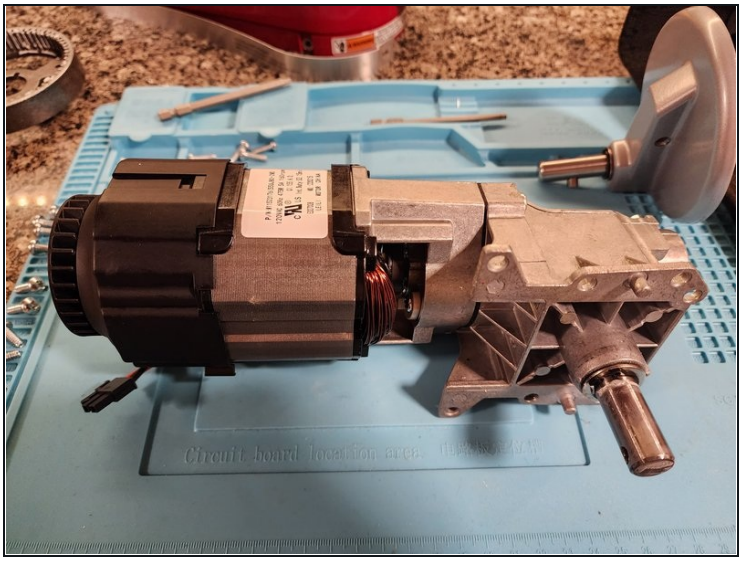

- Using the T25 Torx Screwdriver, remove the four torx screws by the powertrain (circled in yellow, two on each side)
- When removing the last screw, make sure to place your hand under the planetary gear as it is heavy and will fall out immediately.

Step 6 — Disconnect the motor

- Remove the hall effect sensor from its mount by pressing down on the tab (circled in yellow in the first picture) and sliding it out.
- Disconnect the power cable by holding down the clip on the right side of the plug (circled in blue in the second picture) and pulling the plug straight up.

Step 7 — Removing the powertrain/motor

- Using a #2 Philips screwdriver, remove the four screws (indicated in yellow, two on each side) attaching the powertrain to the mixer body.

⚠ When removing the last screw, support the motor as it is no longer connected to the mixer body and could damage the Speed/Motor Control Assembly circuit board underneath.

- Remove the powertrain.

To reassemble your device, follow these instructions in reverse order.