



Insignia NS-F12R6-SS Upper Oscillation Gear Replacement

This guide will show how to replace the upper oscillation gear on your Insignia NS-F12R6-SS fan.

Written By: Hank



INTRODUCTION

The oscillation gear swivels the head of the fan back and forth by translating power from the motor into the oscillation arm.

TOOLS:

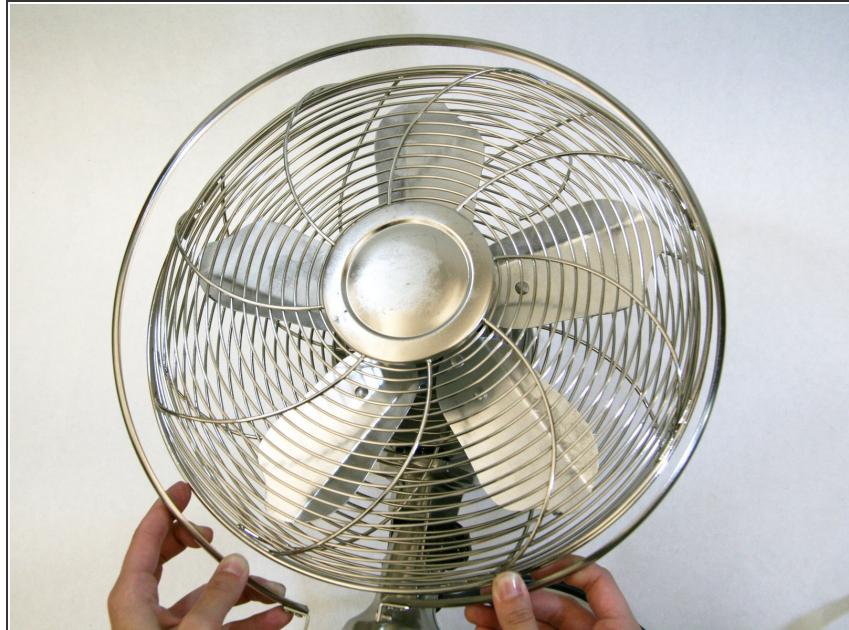
- [Phillips 3 Screwdriver](#) (1)
- [7/16 Crescent Wrench](#) (1)

Step 1 — Front Cage



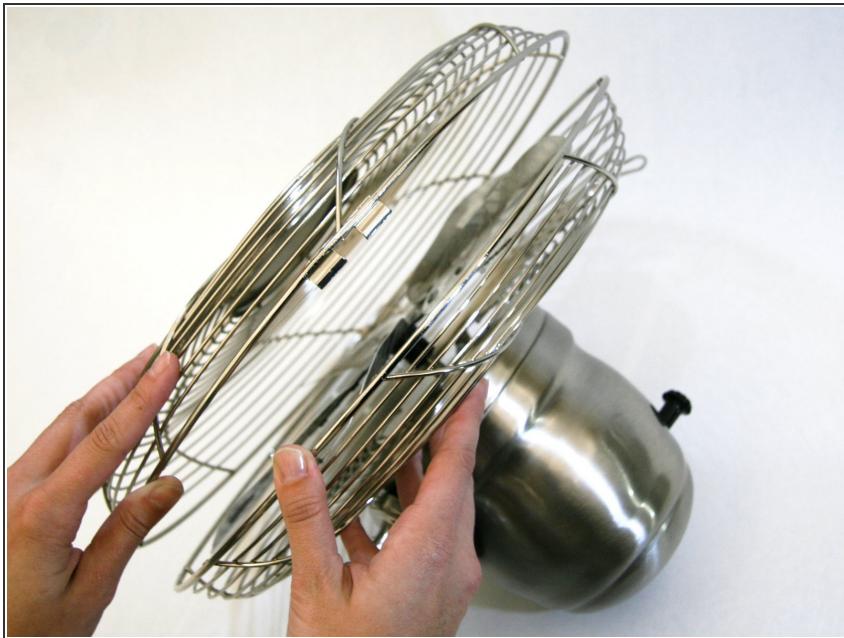
- Unplug your fan.
- Remove the 20 mm bolt that fastens the fan ring located at the bottom of the fan cage with a Phillips #3 screwdriver.

Step 2



- Remove the ring that runs around the edge of the fan cage.

Step 3



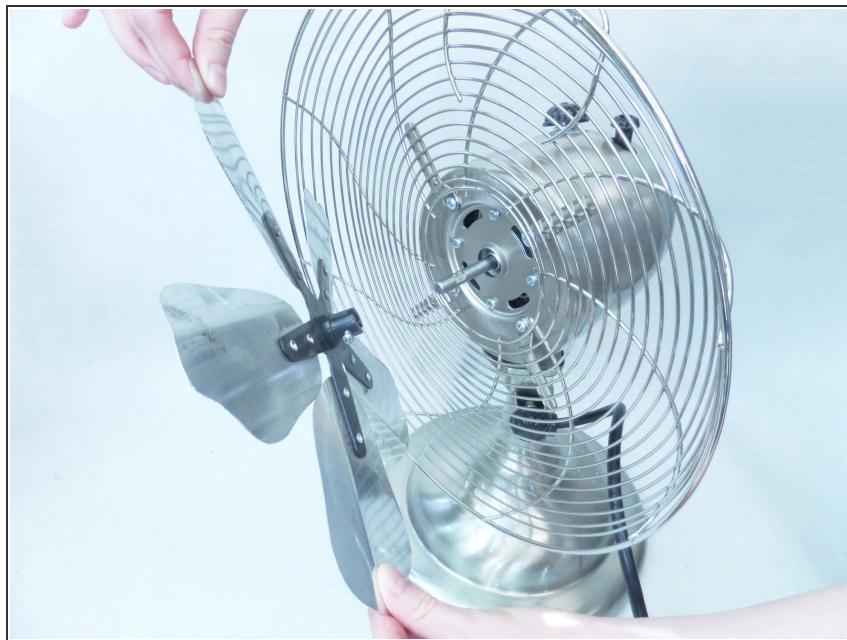
- Remove the front of the fan cage.

Step 4 — Fan Blade



- Remove the 8 mm bolt fastening the fan blades to the rotor with a Phillip #3 screwdriver.

Step 5



⚠ Take caution when removing the fan blades. They can be sharp!

- Slide the fan blade off the end of the rotor.

Step 6 — Back Cage



- Unscrew the four 8 mm bolts that fasten the back of the fan cage back to the motor housing with a Phillips #3 screwdriver.

Step 7



- Pull the back cage off.

Step 8 — Oscillation Button



- Unscrew the 10 mm screw in the center hole of the oscillation knob with a Phillips #3 screwdriver.

Step 9



- Remove the oscillation knob.

Step 10 — Motor Housing



- Use your fingers to gently pull the power knob directly away from the motor housing.

Step 11



- Unscrew the flat 17 mm nut fastened at the bottom of the power knob with a small crescent wrench.

Step 12



- Remove the four 6 mm bolts and small washers that secure the front face of the motor housing with a Phillips #3 screwdriver and remove the washers.

Step 13



- Pull the front face of the motor housing off toward the front of the rotor.

Step 14



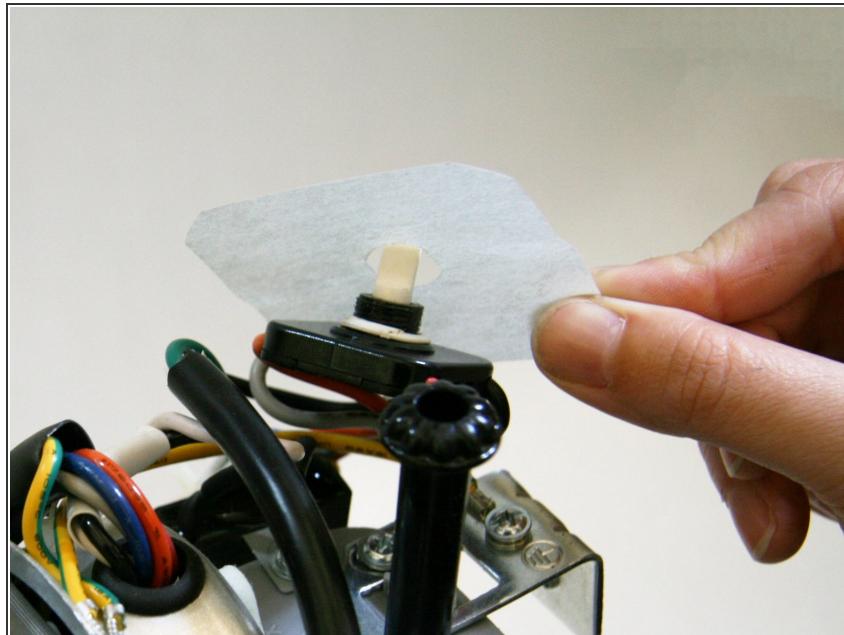
- Remove the 10 mm triangular-headed bolt with a Phillips #3 screwdriver.

Step 15



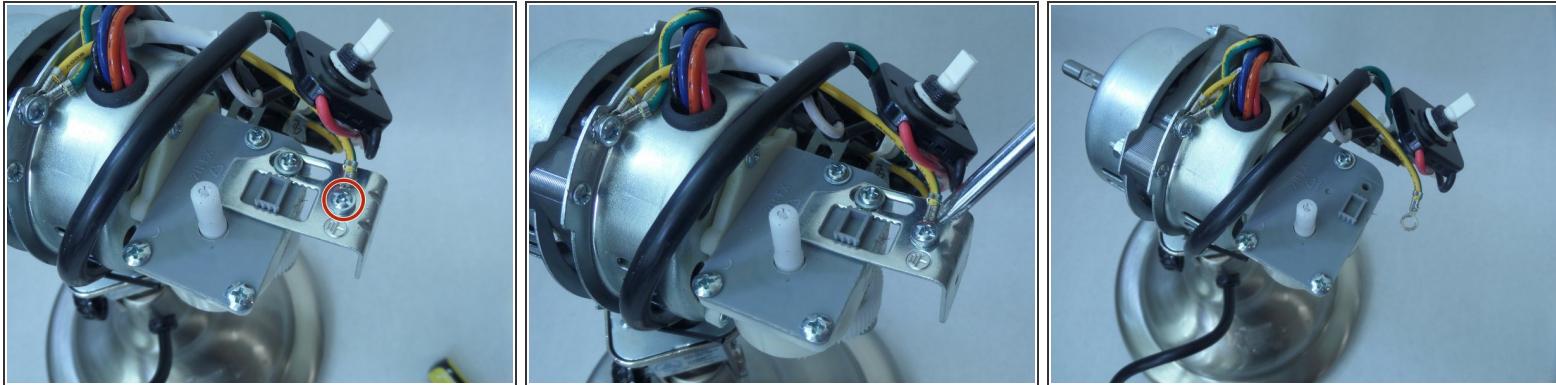
- Slide the back end of the motor housing away from the front of the rotor.

Step 16



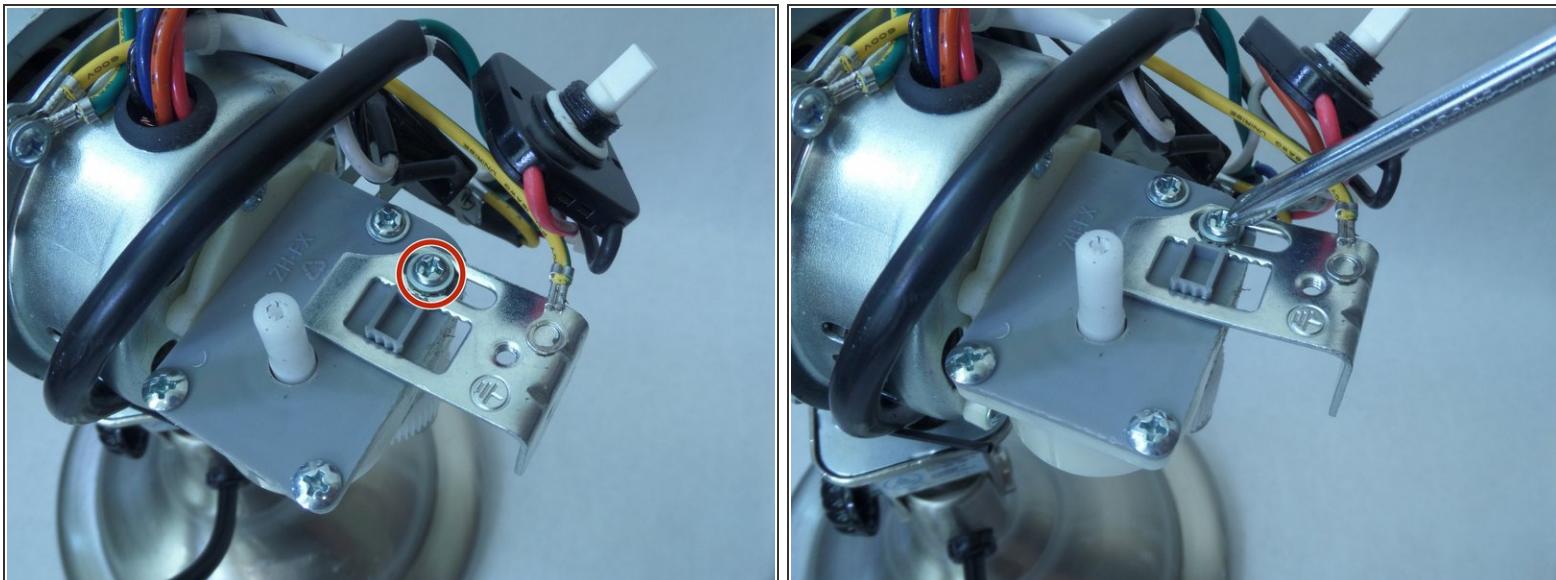
- Remove the small piece of paper hanging on the power button.

Step 17 — Upper Oscillation Gear



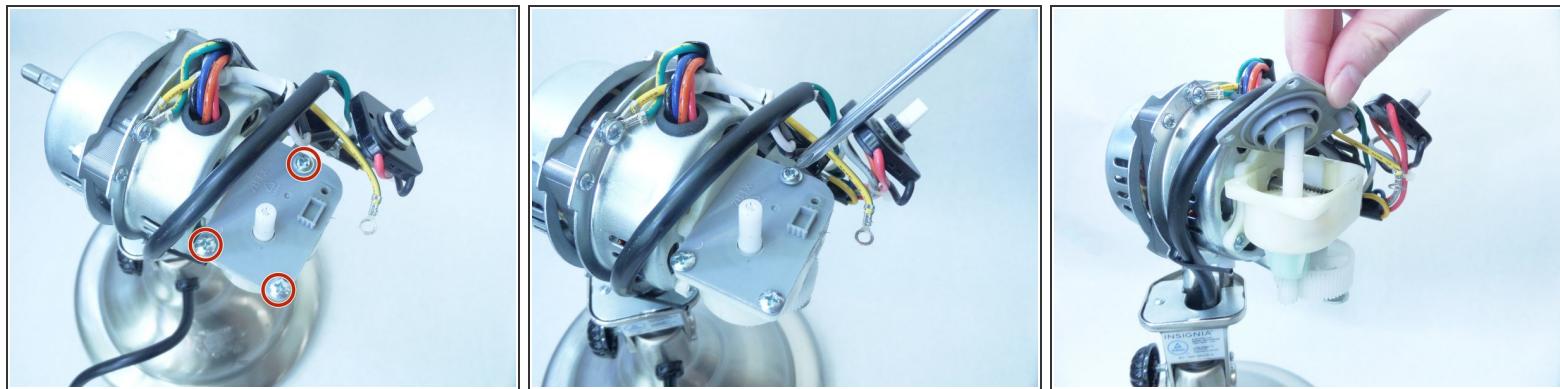
- Using a Phillips #3 screwdriver, unscrew and remove the 7 mm long bolt and small washer fastening the yellow and green wire to the motor housing support.

Step 18



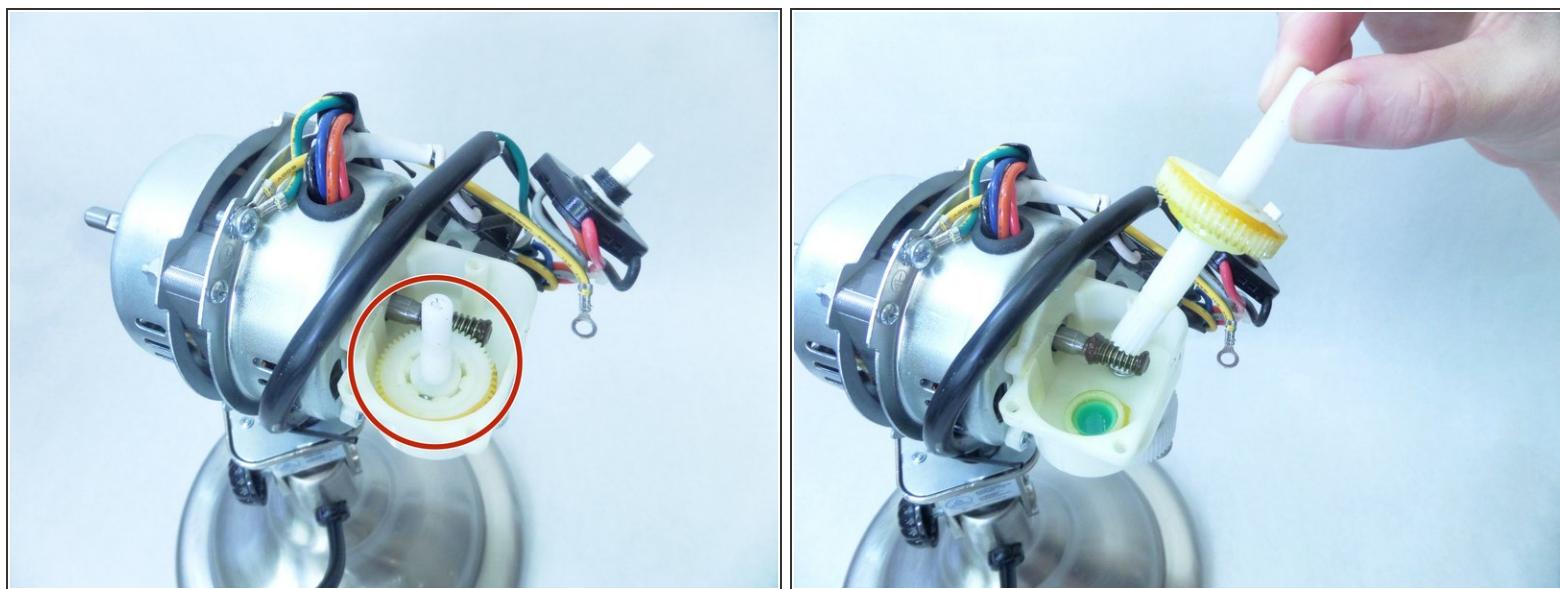
- Using a Phillips #3 screwdriver unscrew the 13 mm long screw fastening the motor housing support to the oscillation gear box.

Step 19



- Using a Phillips #3 screwdriver, unscrew the three 13 mm long screws fastening the grey plate to the top of the oscillation gear box.
- Remove the grey cap covering the oscillation gear box.

Step 20



- Remove the upper oscillation gear.

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