



# Mac mini Late 2012 Cowling Replacement

Remove the plastic cowling covering the heat sink.

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## INTRODUCTION

Use this guide to remove the small molded plastic cowling used to direct cool air toward the heat sink.



### TOOLS:

- [T6 Torx Screwdriver](#) (1)
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## Step 1 — Bottom Cover



- Place your thumbs in the depressions cut into the bottom cover.
- Rotate the bottom cover counter-clockwise until the white dot painted on the bottom cover is aligned with the ring inscribed on the outer case.
- ❗ You do not need to apply much downward pressure while turning.

## Step 2



- Tilt the mini enough to allow the bottom cover to fall away from the outer case.
- Remove the bottom cover and set it aside.



## Step 3 — Fan



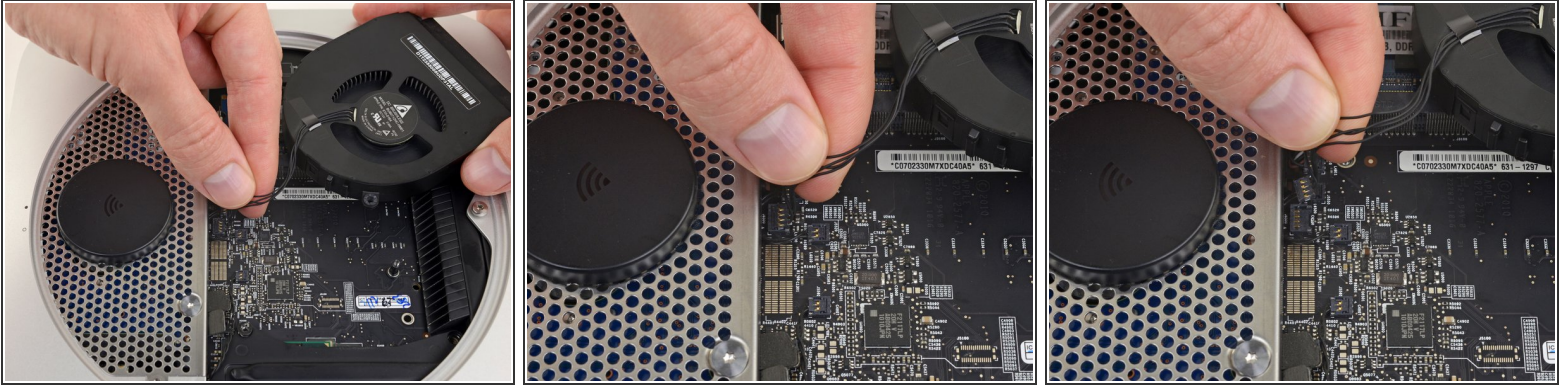
- Remove the two 11.3 mm T6 Torx screws securing the fan to the logic board near the antenna plate.

## Step 4



- Lift the ear of the fan nearest the RAM up off the standoff secured to the outer case.
- ⓘ Removing the standoff screw is not necessary to remove the fan. You need only raise the fan enough to lift it off the standoff screw.

## Step 5



- Lift the fan out of the mini for enough clearance to access its connector.
- Grab all the wires at once and gently pull **straight up** to disconnect the fan from the logic board.  
**⚠ Do not pry at the socket, or you may rip it from the logic board.**
- Remove the fan.

## Step 6 — Cowling



- Remove the single 3.5 mm T6 Torx screw securing the cowling to the heat sink.

## Step 7



- Lift the cowling from the end nearest the antenna plate.
- Rotate the cowling away from the outer case and remove it from the mini.

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