



Turtle Beach Ear Force X12 Microphone Replacement

If the microphone on your Turtle Beach Ear...

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INTRODUCTION

If the microphone on your Turtle Beach Ear Force X12 headphones is not detecting any audio input, you may be experiencing a failure of the microphone module. This can be caused by a faulty electrical connection between the microphone and microphone wires or a mechanical issue within the microphone. These faults can be caused by drop damage or liquid damage.

This guide will outline the steps needed to replace the failed microphone on your headset. Step 6 for this guide requires you to desolder the connections on the microphone before reinstallation. After the microphone is removed, you will need to resolder the connection to the microphone wires. For supplemental information on soldering and desoldering connections, view this [guide](#). Be sure to follow the recommendations in the [project safety guide](#) when soldering to prevent injury or damaged components.

Ensure to carefully remove the ear cushions to avoid tearing them. Take caution when working with the microphone wires as they are delicate and can be easily damaged.

Before starting the microphone replacement, unplug any audio or power connections on the headset.



TOOLS:

- [Phillips #00 Screwdriver](#) (1)
- [Soldering Workstation](#) (1)
- [Cutting Plier](#) (1)
- [T3 Torx Screwdriver](#) (1)

Step 1 — Ear Pads



- Start by removing the left ear pad.
- Gently pull on the pad from the side by the leathery material until it comes loose from slot.

 *Be careful not to rip the fabric .*

Step 2



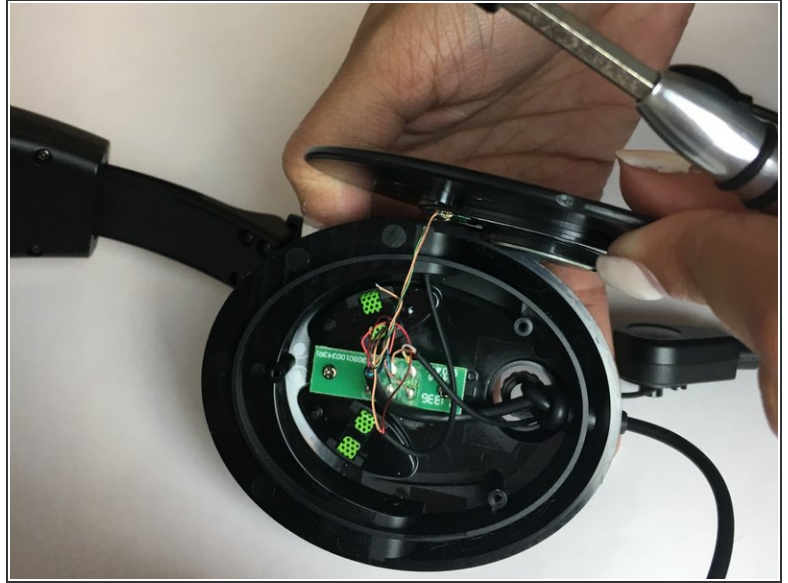
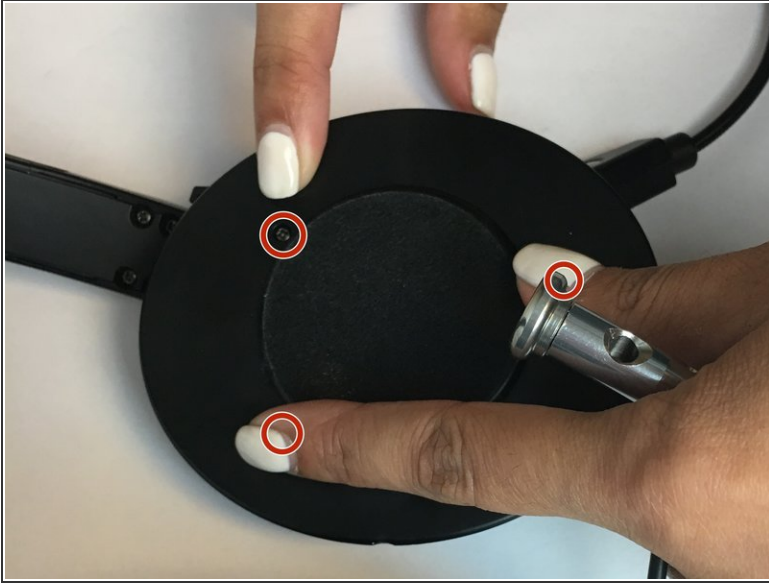
- Grip ear cushion and carefully pull up and separate from the plastic headphone.

Step 3



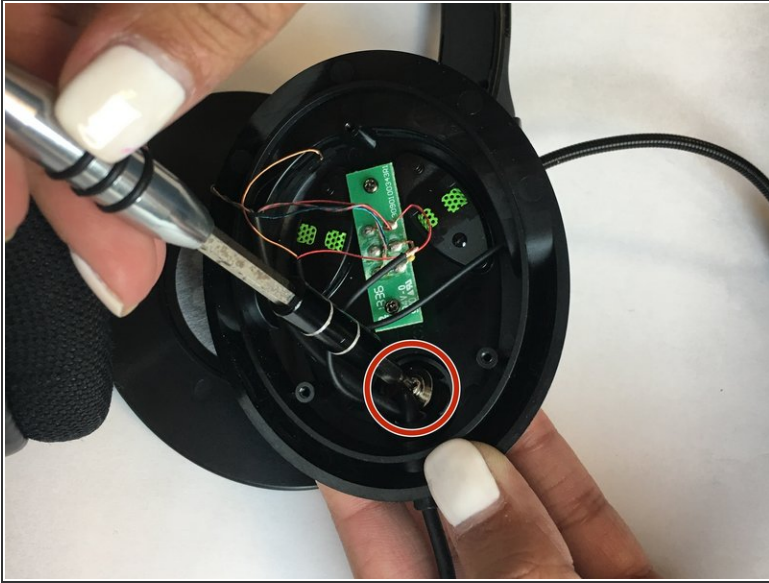
- i Your headset should look like the first picture, with the left cushion removed.
- Repeat these steps for right cushion.
- i *You may now continue with more complex inner headset repair, or replace the ear pads by sliding on new ones in the slot.*

Step 4 — Microphone



- Remove the three 1.1 mm screws around the speaker using a T3 screwdriver.
 - Open the top panel carefully.
- ⚠ Potential for device damage: The wires are very delicate and can be broken easily.

Step 5



- Remove the 5 mm screw using a Phillips #00 screwdriver.
- ⓘ Carefully pull the wire to the side to allow access to the screw if necessary.

Step 6



- Cut the microphone wire with wire cutters.

- Desolder the microphone wires.

⚠ Practice caution while soldering. Ensure proper safety and soldering procedure is followed to avoid component damage and injury.

ℹ For more information on soldering, check out this [guide](#).

Step 7



- Insert the new microphone and solder the wires into the correct positions.
- Position the speaker on the headset so the screw holes are aligned.

⚠ Practice caution while soldering. Ensure proper safety and soldering procedure is followed to avoid component damage and injury.

i For more information on soldering, check out this [guide](#).

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