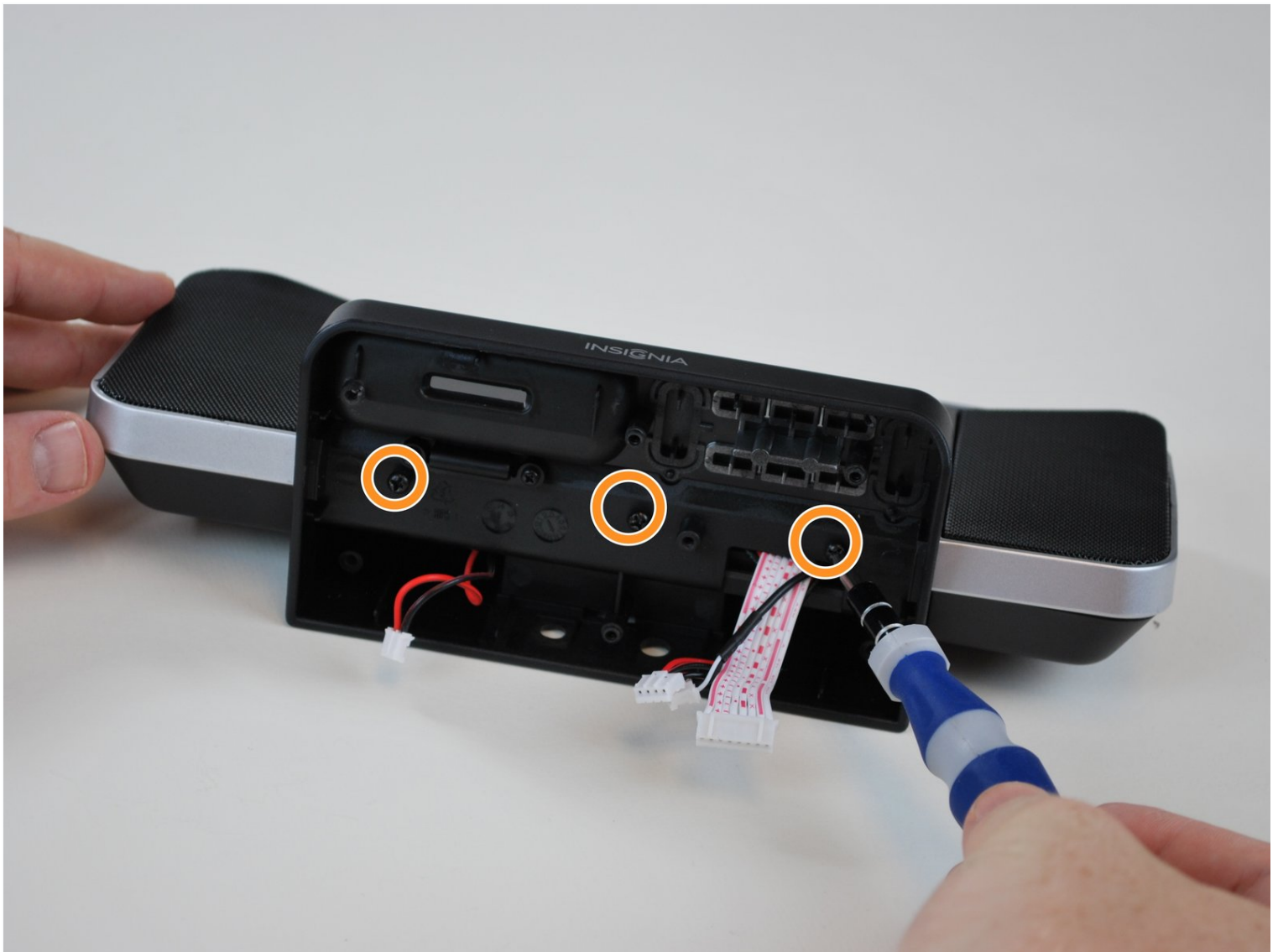# Insignia NS-CLIP02 Speaker replacement and troubleshooting

This guide shows how to locate and repair...

Written By: Aubrey

INTRODUCTION

This guide shows how to locate and repair broken connections to the speakers.

🔧 TOOLS:

Essential Electronics Toolkit (1)
Metal Spudger (1)
iOpener (1)
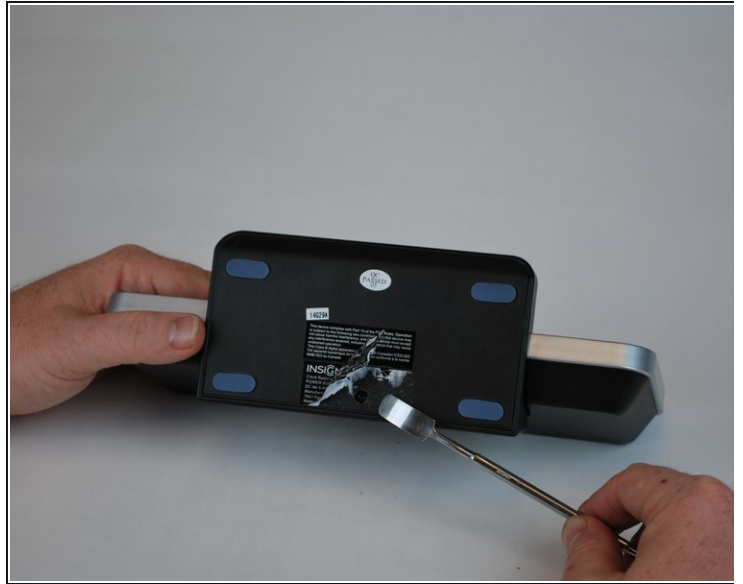Philips screwdriver (1)

Step 1 — Motherboard

- Set the clock radio on the work space so the bottom of the device is showing.

Step 2

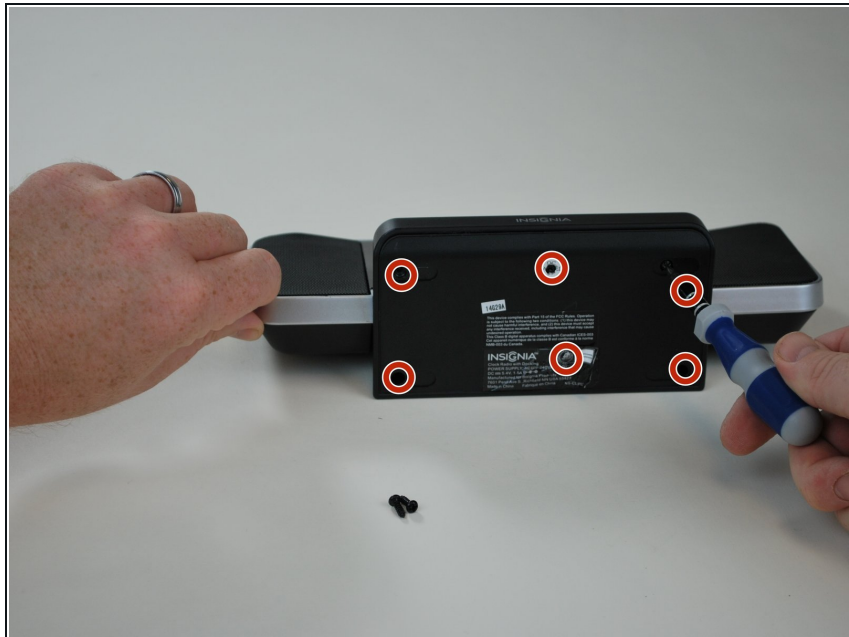- Use a metal spudger to peel back the adhesive sticker on the bottom of the clock.

ⓘ You should see a single screw beneath the sticker.

Step 3

- Using a plastic opening tool, peel off the adhesive gel stoppers.

Step 4

- Use a Phillips screwdriver to remove the six 11 mm screws on the bottom of the device.

Step 5

- Remove the bottom cover from the device to reveal the motherboard.

Step 6

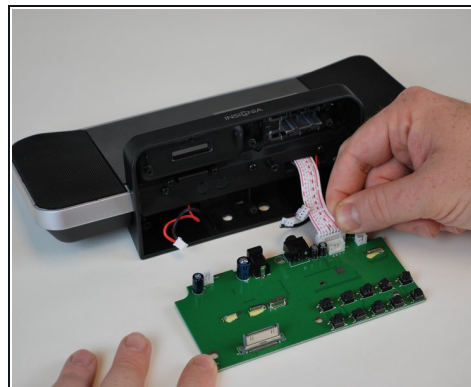- Use a Phillips screwdriver to remove the 9.5 mm screw located near the center of the motherboard.
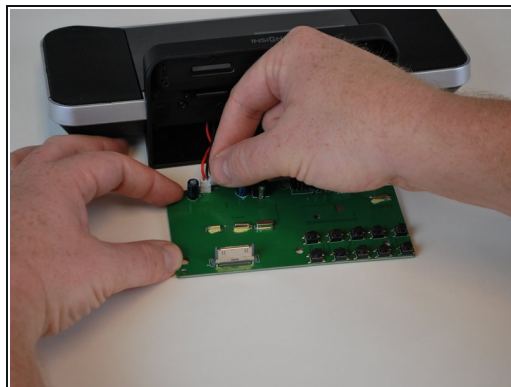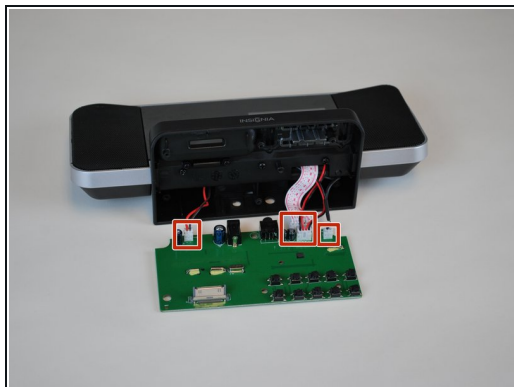
Step 7

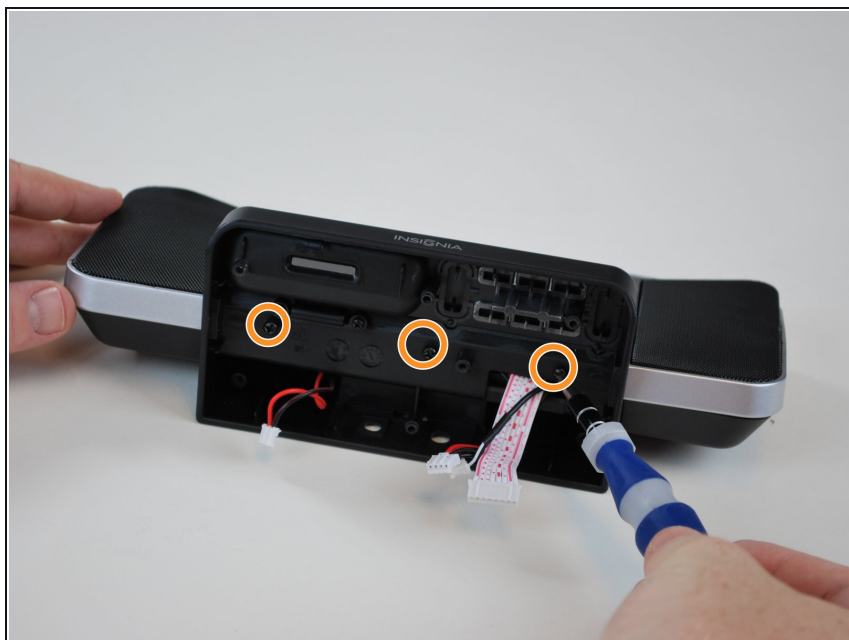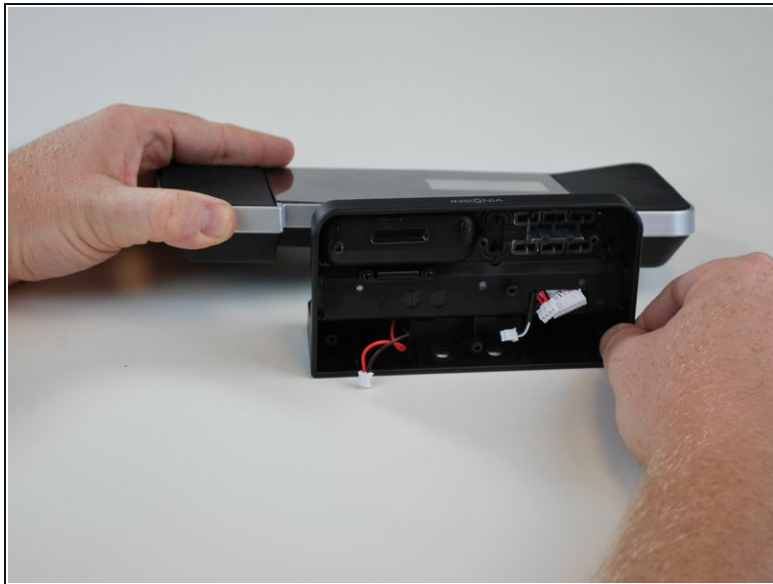- Lift the motherboard away from the device.

Step 8

- Disconnect the four cables connecting the motherboard to the device.
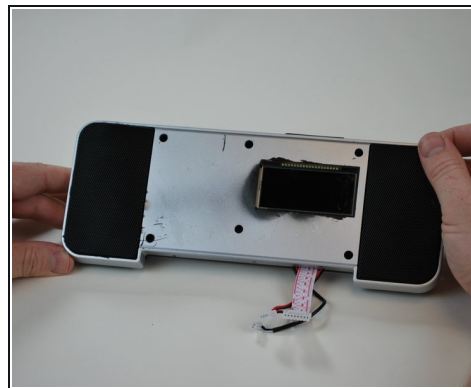
Step 9 — Speaker

- Remove the three screws located along the center of the base.
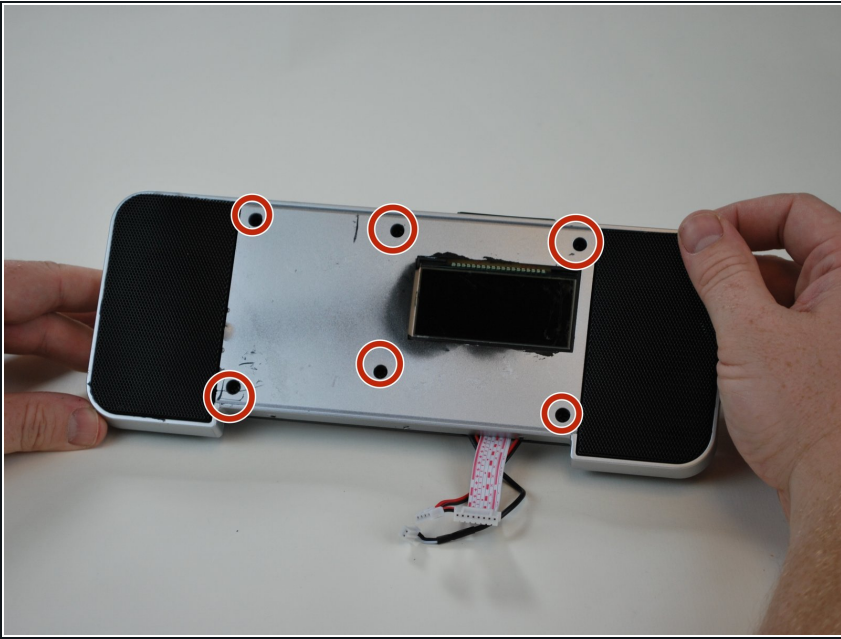
Step 10

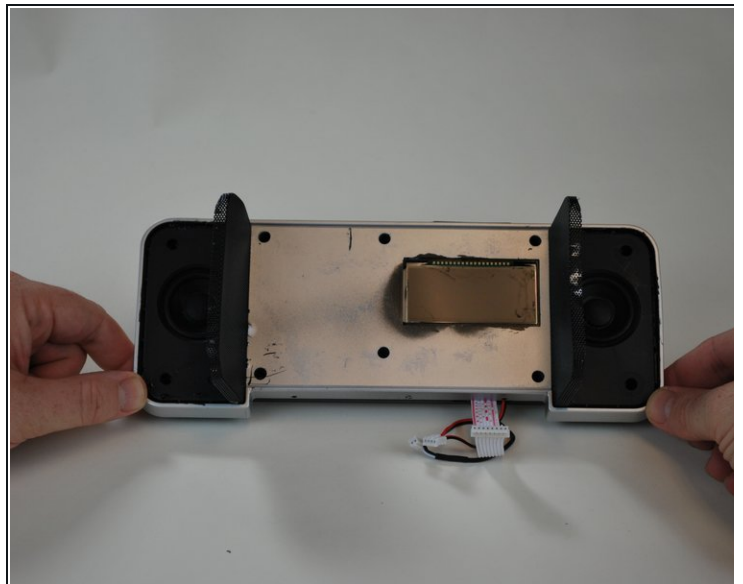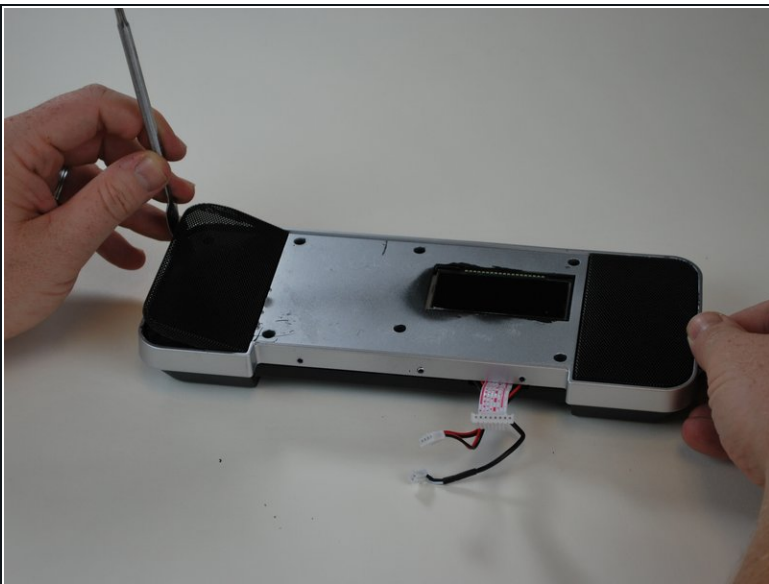- Remove the base from the display.

Step 11

- Using a metal spudger, remove the plastic face plate from the display.

Step 12

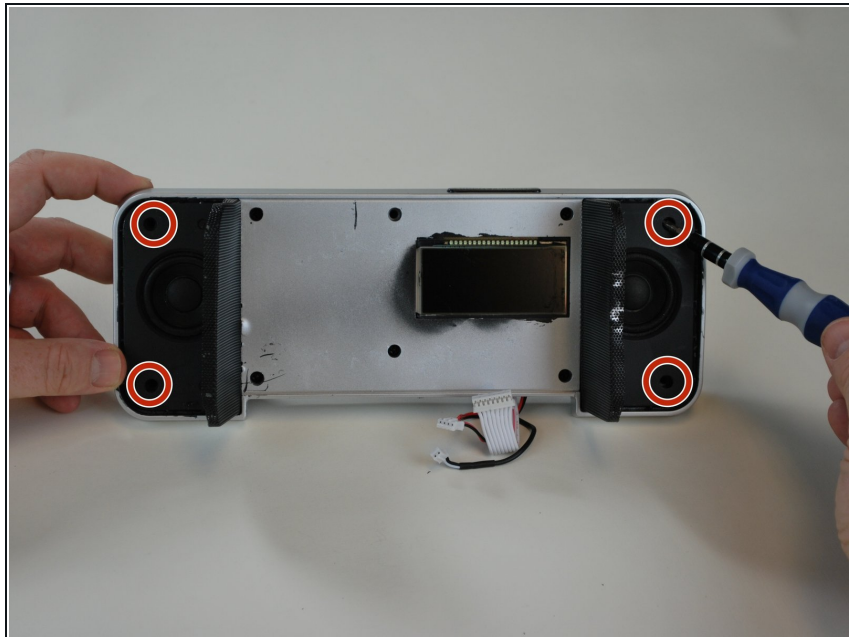- With a phillips screwdriver, remove the six screws shown pictured to the left.

Step 13

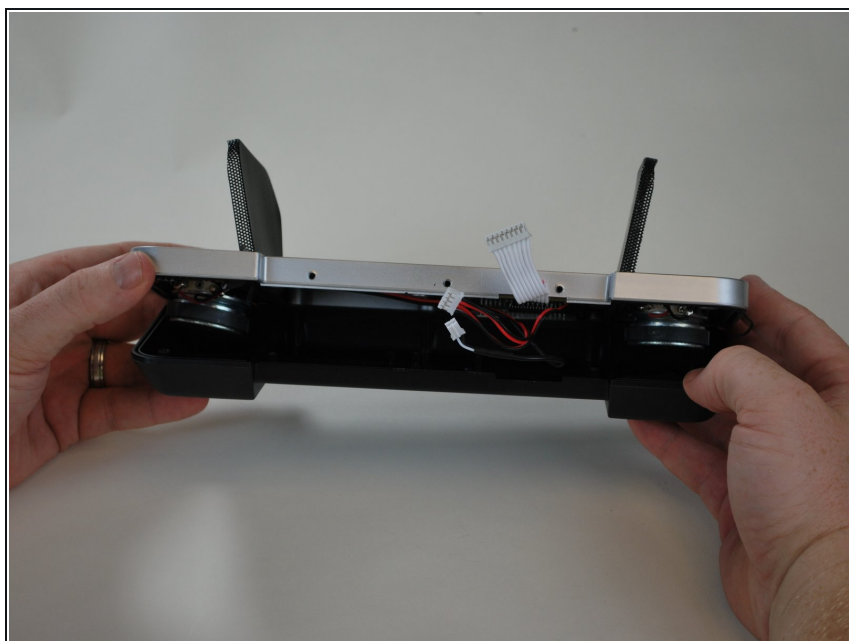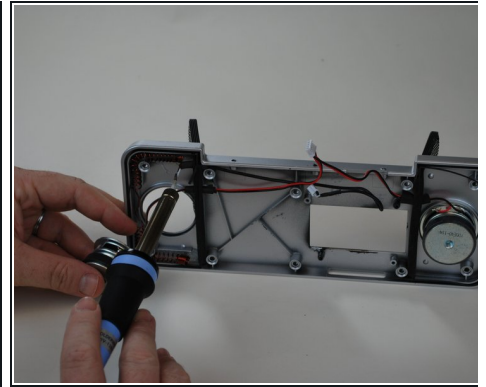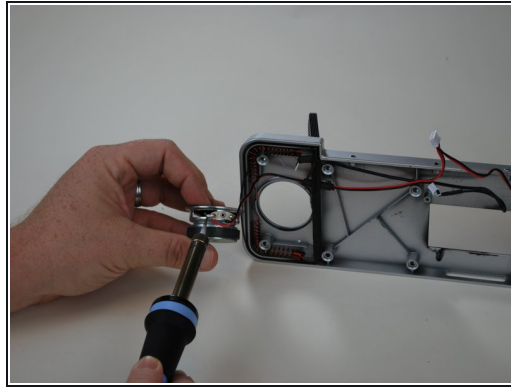- Using the metal spudger, pry the speaker grilles from the display.
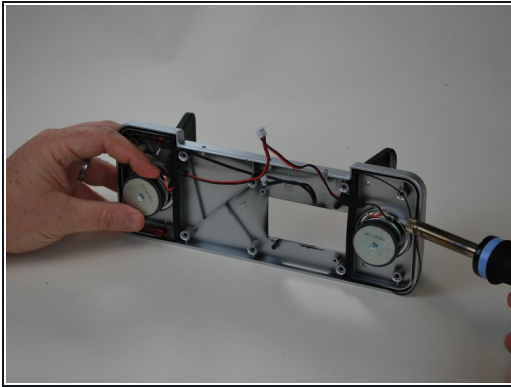
Step 14

- Using the phillips screwdriver, remove the four screws pictured to the left.

Step 15

- Separate the two pieces of the display as shown.

Step 16

- You can see that there are several points where connections to the speaker are soldered.

- (i) If all connections are soldered then replacement may be necessary.

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