



# Emporia CT314F300 Disassembly

Disassembly of an Emporia CT314F300 current sensor.

Written By: Steve Willson



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## INTRODUCTION

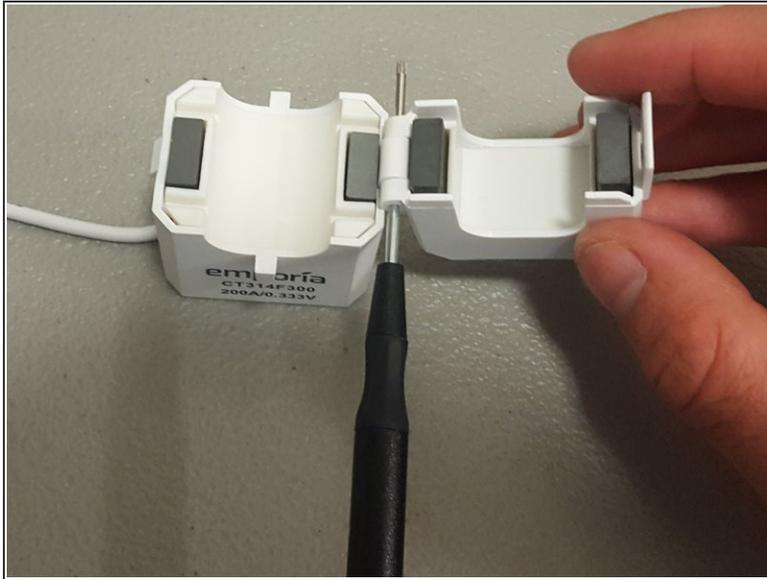
This is the current sensor that comes with the Emporia Vue and is purchasable separately on Amazon. It is designed to measure current and connect to the Emporia Vue.

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### TOOLS:

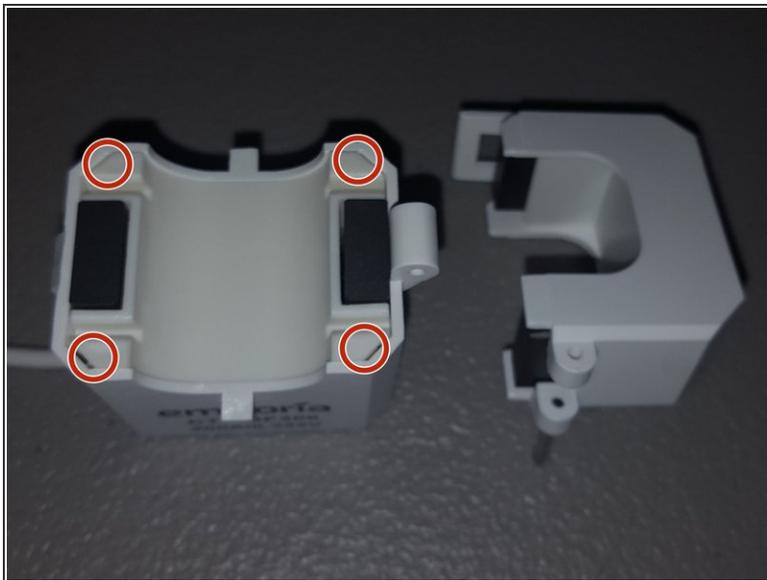
- [1-16-pin-punch](#) (1)
  - [Guitar Pick](#) (1)
  - [playing card](#) (1)
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## Step 1 — Remove the hinge pin



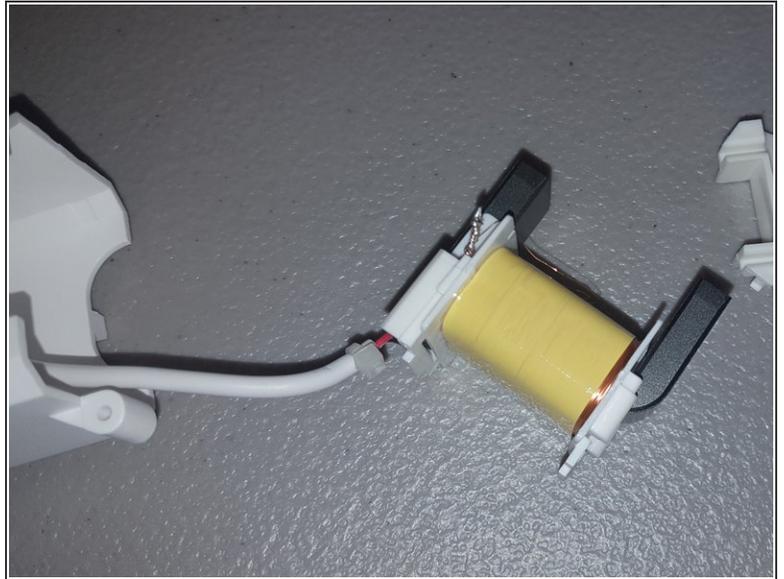
- Use a tiny screwdriver or punch to push the hinge pin so that the top of the sensor may be removed.
- One end of the pin is crimped, the other end is smooth. Push on the smooth end to remove the pin.

## Step 2 — Remove the top of the main body of the sensor



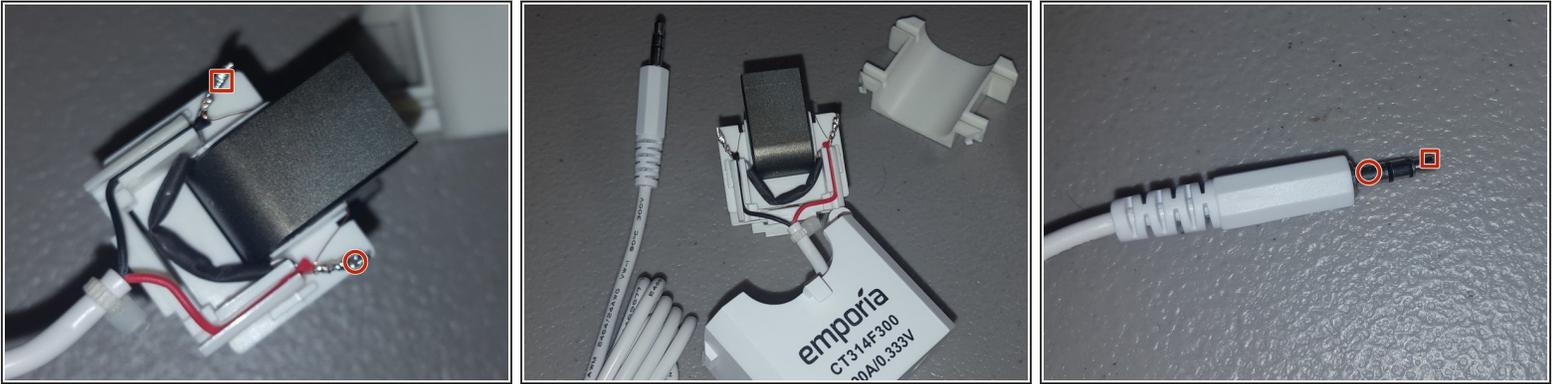
- Use a small screwdriver to pry the four corners (indicated by red circles) of the top covering. It will release and can be removed.

### Step 3 — Remove the magnet and copper windings from the main body



- Use the small screwdriver to push on the bottom of the main body of the sensor (red circles) to remove the magnet and copper windings.
- Push a little on each side, alternating sides. The entire casing will dislodge.
- While removing the magnet and copper, feed the cord through the opening making sure that it does not prevent the main housing from being removed.

## Step 4 — Observe the inner housing



- There is a 5 ohm burden resistor connected between the leads.
- The black wire is connected to the tip (red square in the picture) of the 3.5mm connector.
- The red wire is connected to the sleeve (red circle in the picture) of the 3.5mm connector.
- The ring of the 3.5mm connector is not connected.

## Step 5 — Dislodge the plastic snaps for the upper housing



- Insert a guitar pick and playing cards to dislodge the plastic snaps from the upper housing.
- Press on the top of the housing (red rectangles) to separate the housing.

## Step 6 — Separate the upper housing



- Press the plastic portion to separate the upper housing for the magnet.

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