Assembly Instructions for the EyeBall

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The EyeBall comes as two printed circuit boards, referred to as "the circuit board" and "the front panel" in this document.

Front Panel

The only components permanently attached to the front panel are the hex stand-offs (SO1 - SO4) and the associated screws (SC1 - SC4).

Start by attaching the standoffs to the front panel. Then attach jacks J1 – J5 to the front panel. Assemble the circuit board and front panel using the nuts (N 1 – N4) then solder the jacks to the circuit board.

Disassemble the board and front panel to continue.

Circuit Board

1. Install H1 - H4 on the bottom side of the circuit board.

2. Install discrete components and ICs. (save the longer trimmed leads for step 4.)

3. Install LEDs and Photo transistor. Use stand-off spacers to mount LEDs and the photo transistor. (The LED leads fit into the outer slots of the stand-offs and the photo transistor leads fit into the inner slot).

If stand-offs aren't available, place circuit board onto the front panel standoffs and set the height of the component by pushing it into the hole in the front panel.

Solder the component into place and remove the circuit board from the front panel to continue assembly.

4. Install potentiometers. Use trimmed component leads to connect potentiometers to the circuit board.

6. Clean the board with flux remover. (optional)

7. Test it. (see test\_plan.docx)

8. If everything works, assemble the board and front panel, add the knobs and you're ready to go!

The photo below is not current. But it can be used as a guide. We will get a photo of the current revision as soon as possible. (note: cat hair not required for proper operation)

