VCR Remote Control

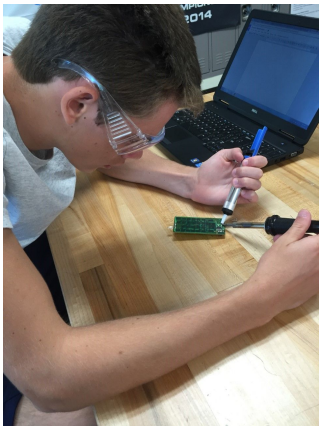
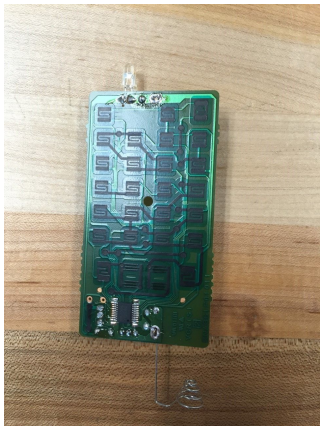
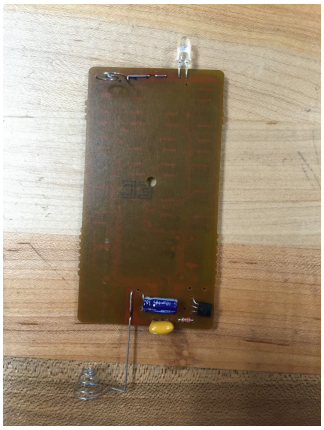
Team 6135H

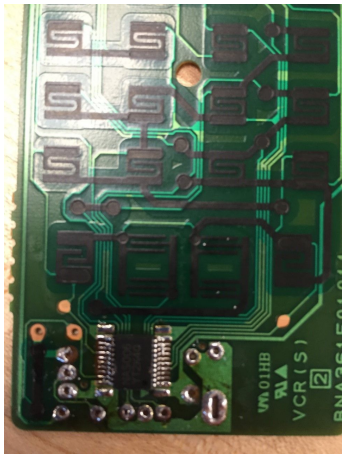
Initial Dismemberment

Parts

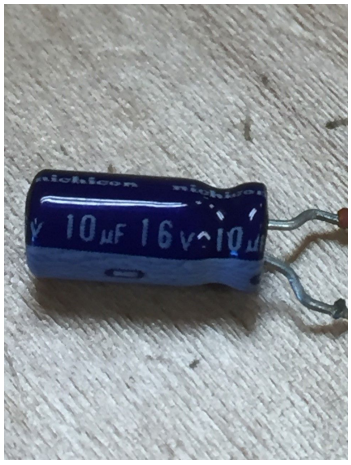
- Plastic casing (top)- holds rubber button pad
- Plastic casing (bottom)- holds batteries
- Removable battery cover- holds batteries in bottom case
- Rubber button pad
- Batteries- power source
- Circuit Board

Circuit Board



NAS006 YT2K4Q IC chip

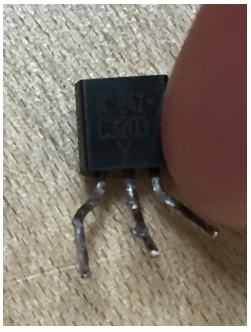


Nichicon 10µF Capacitor

3.52V Capacitor

Infrared Transmitter

3.2Ω resistor



K 247 C3203 Capacitor

Metal Wires that connect batteries to circuit

Final Summary Report

We chose to disassemble the remote control to a videocassette recorder. We chose this because the remote no longer served any purpose and could be easily taken apart using a screwdriver. The remote was also small and simple but also contained a substantial amount of components. Aside from the plastic shell, button pad, and batteries, we found a circuit board.The components in the circuit board required a soldering iron to remove. This circuit board contained an integrated circuit chip, one resistor, three capacitors, and an infrared transmitter. We were also able to understand the basic function of the device. When each button is pushed, it sends a certain input through the circuit to the IC chip. From there, a certain signal is sent to the infrared transmitter which then sends a signal to the VCR. The resistor and capacitors are in the circuit board to ensure the proper voltage and timing within the circuit. We could not find any TI instruments in the remote control.