Jazz DV150 Wiring and IR Mod.

1) Remove batteries from the camera
2) Remove the 6 screws which hold the case together. The two screws on the bottom of the camera are located under the serial number label.
3) Open the battery door. GENTLY pry open the case from the bottom. Then push the front of the case upward to dislodge the plastic case catches on the top of the camera

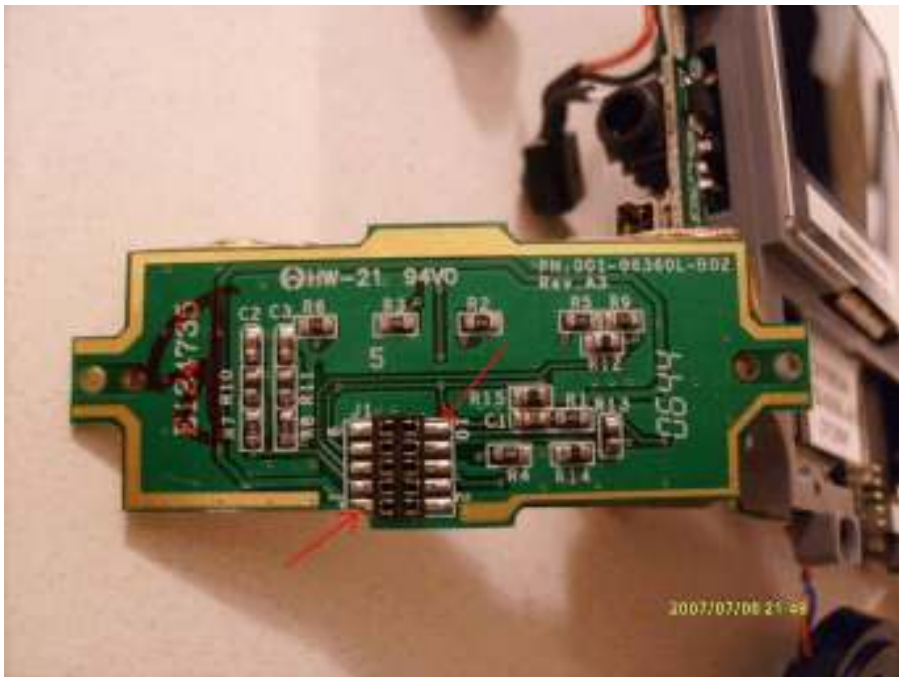
4) Now that the front of the case is removed, disconnect the microphone from the front of the case. Simply pull up on the rubber grommet to remove it from the mount hole. Remove the screw which holds the record led in place and remove the led from under the holder

5) Pull the battery board out of its holder
6) Remove the two screws which hold the battery holder in place. Remove the battery holder
7) Remove the tape covering the speaker which is located under the battery holder, then remove the speaker. No screws involved, it just pops out.
8) Remove the main board mounting screws. Shown in the red circles below.

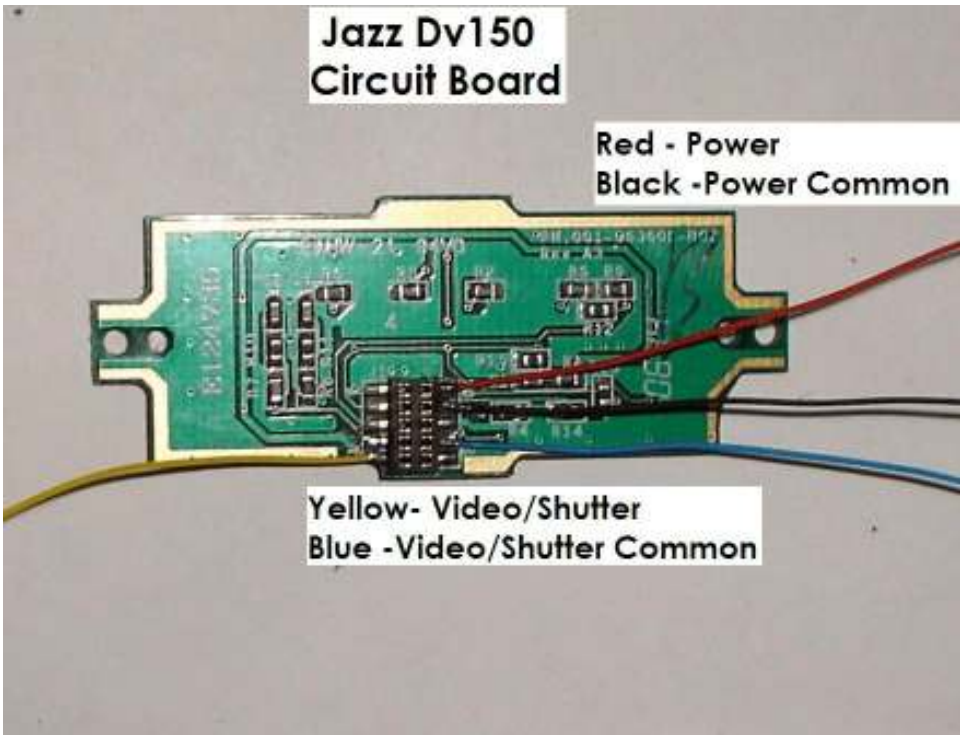
9) Now gently pull out the main board assembly and set to the side.

10) Flip the main board over and remove the two screws which hold the switch board in place. Also, peel away the copper film from the bottom of the LCD. Note: Directly above the left screw, the copper film is soldered to the main board. Try not to tear the copper from the main board, but if it happens, it should be OK, the board will still operate. I think the copper film is just for EMI noise emissions, not really critical if it get torn.

11) Now, pull up on the switch board and it should come
right out. Flip it over. You will see the connector. The pin numbers are marked on the header, Pin 1 is on the lower left, pin 2 the lower right, pin 9 the top left, pin 10 the top right.



12) **Pins 1 and 4 are the power switch pins... pins 8 and 10 are the shutter pins.** Solder the wires as shown. MAKE SURE WHEN SOLDERING THE WIRE THAT YOU DO NOT SHORT TO NEARBY PINS!!!



13) Next, we need to remove the lens from the camera and replace with a non IR coated lens. First, pull the top of the LCD away from the gray LCD holder. Under the holder, you will see the LCD ribbon cable. GENTLY pry open the left and right latch holders on the ribbon cable connector and remove the LCD.

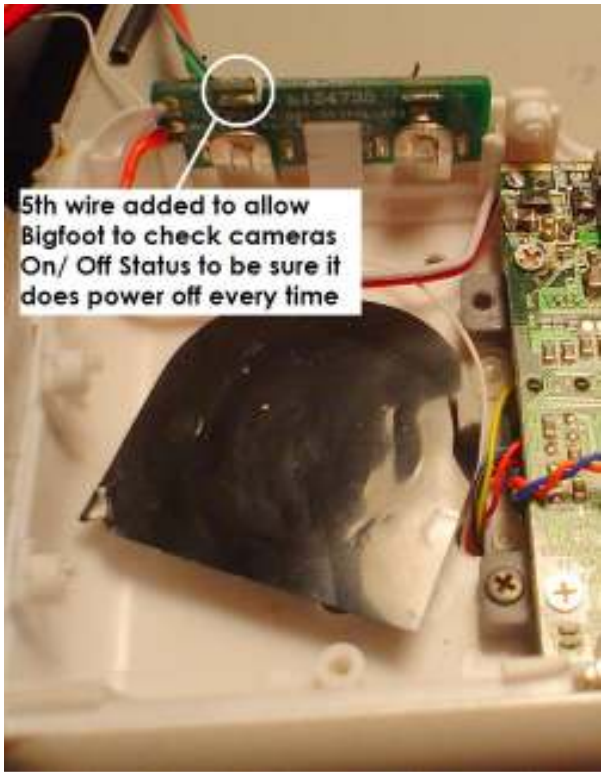
14)Now, flip the board over and remove the 4 screws which attach the gray lcd holder to the main board.
15) Now you will see the two screws that hold the lens holder in place. Remove them and remove the lens. BE CAREFUL NOT TO SCRATCH THE CMOS SENSOR ELEMENT WHICH IS UNPROTECTED!!!

16) Now simply replace the old lens with the new lens. Be sure to use the screws that come with the new lens because they are longer and hold the lens better.

17) The new lens is taller than the original, so then lens protector on the front case of the camera will need to be removed. Also, the hole the lens hole in the case front will need to be widened to allow the new lens to fit though. The last picture below shows the lens hole after it has been widened

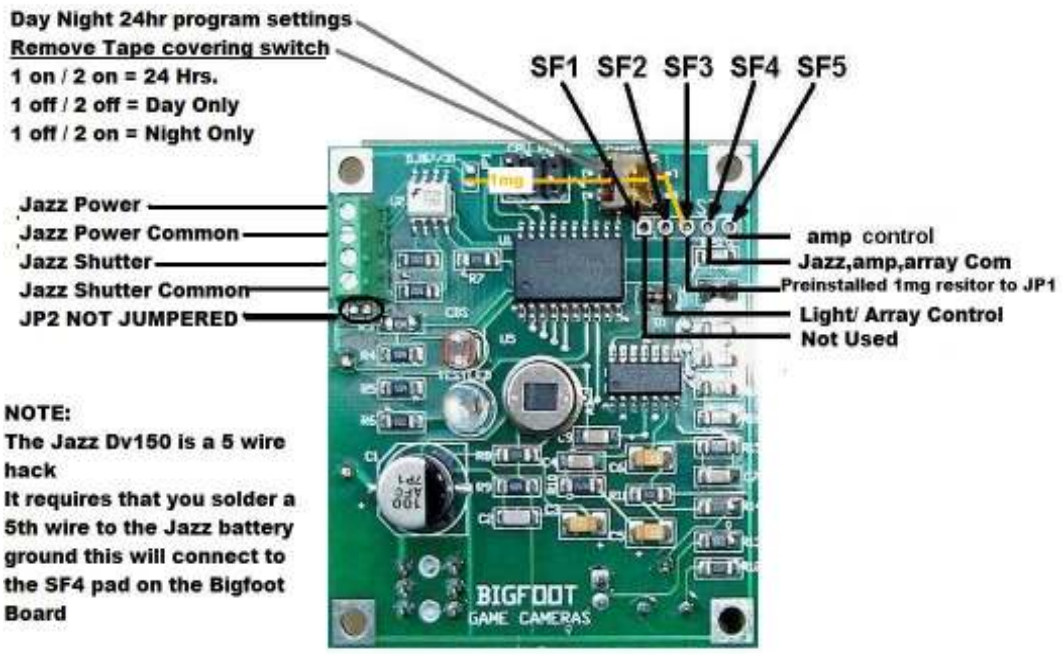
18) Now it is time to re-assemble the camera. Attach the grey lcd holder back onto the main board.
19) Insert the LCD ribbon cable back into the connector and latch both ends. Place the lcd back into the holder. Make sure you clean the display!
20) Install the switch board and screw down
21) Install the main board assembly back into the case and screw down. Be sure you install the USB cover onto the main board before re-installing the main board.
22) Install the SD card cover back into the case.
23) Install the speaker back into the mounts.
24) Install the battery contact board back into the case holder.

25) Now we need to add the 5th wire This is critical to the proper operation of the Jazz camera You will solder this 5th wire to the Jazz Battery negative contact terminal



26)You can Run the control wires from the switch board as shown below. Remove the tripod mount and exit the wires out of the tripod hole.
Or you can drill a small hole just below the circuit board and attach the servo connector on the back of the Case right below the Lcd screen and above the button pad.

Connecting the Jazz to the Bigfoot board



Wiring the Optional Sister Boards to the Bigfoot board