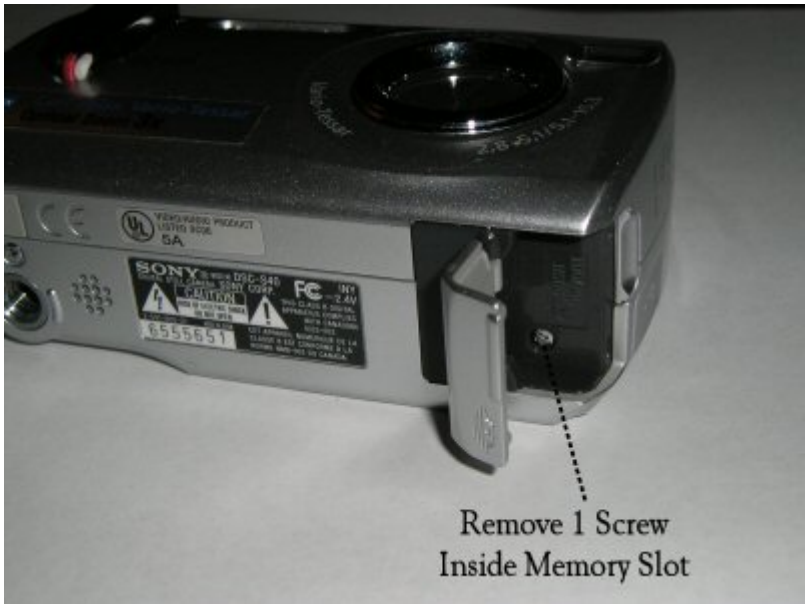
Modifying the Sony S40 Camera for use in Game Camera Surveillance

Informative, S40 Mod Text File. WS is not responsible for any damage you may encounter. This modification will void your manufactures warranty, these are meant for Wildlife surveillance.

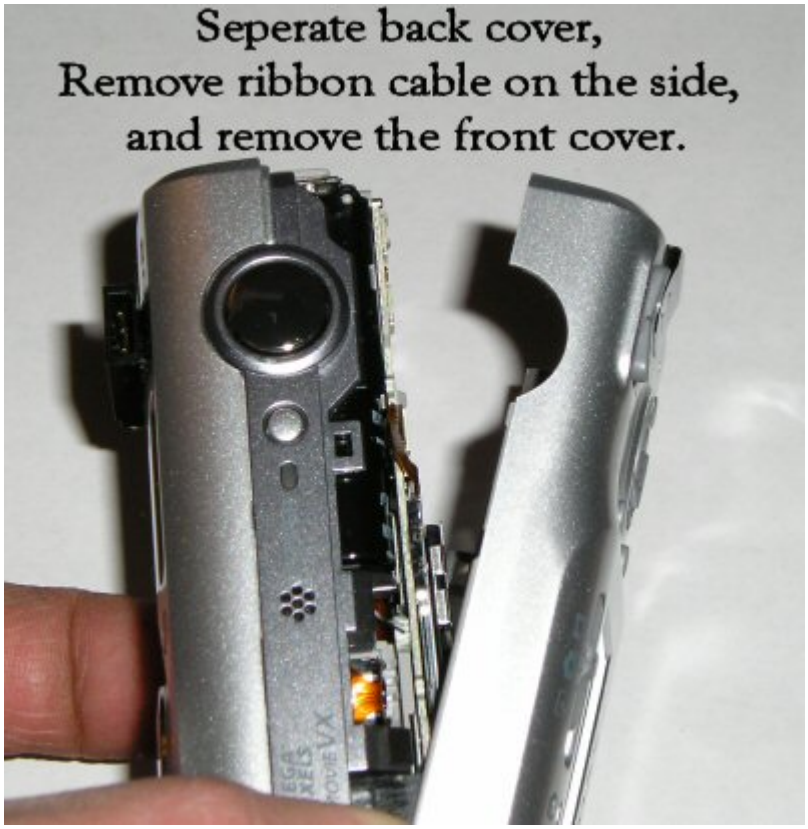
PIX LE II Chip is required for an S40 setup
J2 Pin 3 "Refresh" to Camera Power On/Off internal contact (**Red Wire**)
J2 Pin 1 "Shutter" to Camera Shutter internal contact (**White Wire**)
J2 Pin 2 "Ground" to Camera internal ground contact (**Black Wire**)

SSS Settings
Cam Type= "ON/OFF-1"
Refresh = "30 Min."
Shutter = "1.5 Sec."

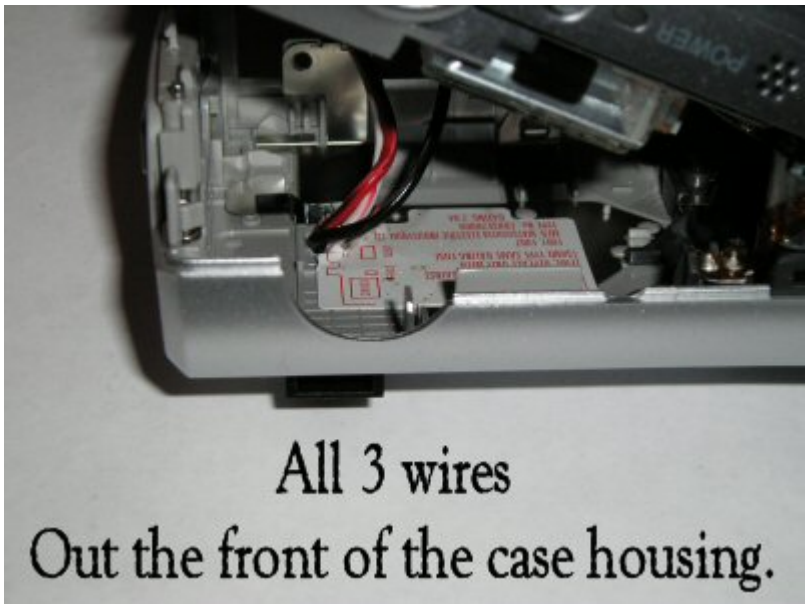
Remove the **3 screws** located on the outside of the housing, 1 is located **above the battery door**, 1 is located on the **bottom next to the tripod mount**, and the 3rd is **inside the memory card door**.



Once this is done, open the battery door, and pull along the seem to separate the ***rear plastic housing***, once this is removed you can now remove the side ribbon by gently pulling on the ribbon out, next we can remove the inside camera board as 1 unit, gently pull from left to right until the front housing snaps off.



Next drill a **5/32" hole** in the front of the S40 camera housing while having the faceplate removed from the camera, we did our **5/32" hole** on the left side and along side of the thin metal plate that is inside of the camera faceplate, run the wires through the front of the camera faceplate, solder the two 26-30awg wire to the SA ribbon now, next place a small piece of electrical tape across the ribbon to hold it in place to the circuit board 'recommended', while looking at the ribbon the left solder tab is **'S' SHUTTER**, and the right solder tab is **'P' POWER**.

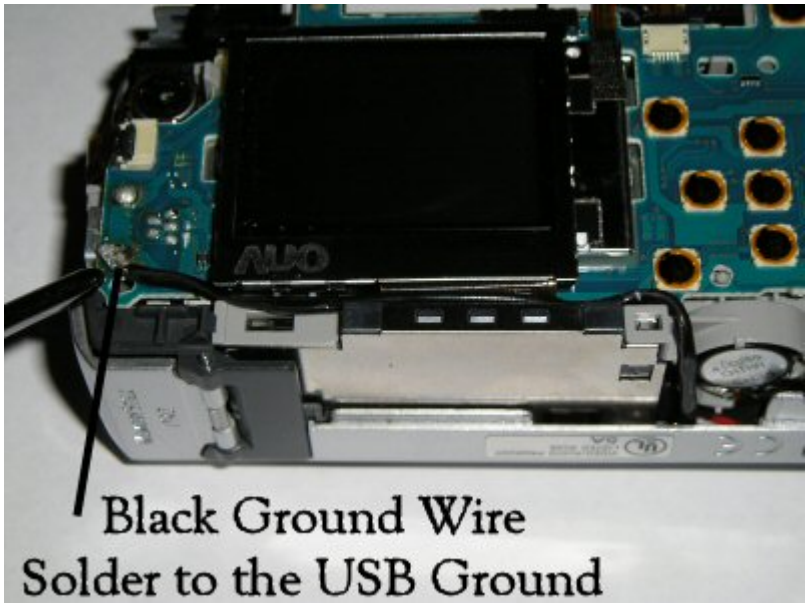


Shutter Assembly Ribbon:

After carefully removing the original ribbon inside the S40, this is done by means of a small toothless pair of tweezers. Place the new Shutter Assembly into the plug port, (Be sure your 2 solder tabs are facing the camera) now slide the original Shutter Assembly back into the plug port. This generates pressure that holds the additional ribbon in place.

Next **fold the ribbon** over/down so it lies across the circuit board with the solder tabs facing upward.

Next you want to make a **3rd wire connection**, this is your **ground wire**, this will be attached to the lower left USB solder tab on the camera circuit board along side of the USB Hood.



3 wire 26 awg servo wire, Installing the servo plugs on the front housing seems more logical since the camera has a protruding lens from it which allows this extra room for clearance. Here is a picture:

If you installed the 3 wire cable connector from us, then after final assembly, ensure the ribbon is lined up correctly and the solder contacts were soldered correctly with no bridge. Be sure the camera has 2 new batteries installed, and the rear switch is in the center position for picture taking. Simply take the **Red-Black-White wire** from the end of the plug insert, and splice the shield off a 1/4 of an inch, now touch the **Black Ground wire** to the **Red Power wire** and the camera should power on, now touch the **Black Ground wire** to the **White Shutter wire** and the camera should take a picture.

If this did not work be sure you don't have a solder bridge on the shutter ribbon 2 wire solder contacts, and be sure that you have the ribbons in all the way.

S40 Menu Setting:

- Program
- EV= default **OEV**
- Focus: **Multi AF**
- White Bal: **Auto**
- ISO: **Auto**
- P.Quality: **Standard**
- Rec mode: **Normal**
- Flash level: **All the way up to +**
- P.Effect: **Off**
- Saturation: -
- Contrast: **-**
- Sharpness: **Normal**

Next is Setup Camera 1:

- AF Mode: Single
- Digital Zoom: Off
- Date/Time: Day/Time (Stamps date & time on picture)
- Red Eye Reduction: Off
- AF Illuminator: Off
- Auto Review: Off

Next is Camera 2:

- Enlarged Icon: Off

Next is Setup 1:

- Beep: Off
- Language: English
- Initialize: OK

Then all you have left to do is setup the Date & Time if you did not do that during the original boot up of the camera.

Be sure your camera is set to picture taking mode ‘center’ or movie making mode ‘right position’.

Be sure that you turn your LCD screen off too