

I had a light switch module (LSM) problem where the instruments back lighting went dim and I couldn't adjust them in addition to all the other LSM functions not working, high beam wouldn't stay on, couldn't turn on fog lights, knob for headlights and parking lights didn't function but if I put some pressure on the instrument lighting wheel things would started to work. Because I could get things to work with pressure on the lighting adjustment wheel the problem was most likely a bad solder joint and could be repaired.

There's a Youtube video and a pdf available showing an area of the LSM circuit board where you should reflow the solder joints but in my case this didn't help. I ended up reflowing solder on just about every solder joint and device pin connection on the circuit board including the 44 pin microcontroller IC. I saved the 44 pin IC for last because of the close pin spacing and the risk of totally screwing things up but reflowing the solder on these pins seems to have fixed the circuit board. I did carefully (with magnification) look at all the solder joints before hand and didn't see any problems but could flex the board and get things to work so it had to be a bad solder joint somewhere.

I originally tried to troubleshoot the problem to find the bad solder joint so I took notes on components location and test points, especially the 12V and 5V power supply paths. This is the board before reflowing the solder and replacing the 3 bulbs with LED's and I did mark the +/- bulb sockets for correct LED orientation.



