

Sega Master System 2 “On” light – By omp

This is a fairly simple mod that I have done for a few years now. I think it is rather neat and looks pretty cool. You could add a led with a bezzel on the front, but for a bit more effort you could do this. Sega was nice enough to make the power switch hollow! Note that this is a console I done a while ago and have partially dismantled for the pics.

Parts required – Bright 3mm LED, 75 or 100ohm 1/4watt resistor, thin speaker cable (say bell wire), thin heatshrink, electrical tape and a hot glue gun.

First off Disassemble the Master System 2. You have to remove the power switch, which is a bit of a pain, but if you “walk” the switch past the locating lugs it comes out easy enough. Please note that the switch only goes in ONE way! We want to drill a hole about half way down on the FRONT of the switch tube on an angle as shown. I use a 4mm drill bit.



And



Next you need to open up the top of the switch to allow light through! I find a hacksaw blade is the key, simply saw in the groove until you get through the top making a window of sorts. You could follow up with a needle file to make the slot a smidge wider. I use an old toothbrush and rub the slot to clear and burs/dust out.



Next step is to grab +5V from somewhere, I go straight to the voltage regulator but find a location that suits you. On the regulator looking directly at it, it is on the right. From the Regulator I join the resistor to here and add join the speaker cable to here. I have used the sheath of a cat 5 cable as insulation. Ignore the 2nd wire coming out of the insulation, as that is for the pause on the controller mod. Since I use speaker cable I find a nice close spot for the ground. I use the outer edge of the board. I use Hot glue just to secure everything in place.



Next is to run the speaker cable along the edge and over to the top part of the console case. Place it side by side as below. Leave a bit of slack as shown. I like to use Hot glue to hold the speaker cable down behind the switch housing to keep it secure. I scratch the surface (as you can just see) with a knife, so the glue has something to grip to.



Add 1 short piece of heatshrink to insulate 1 leg of the LED (only 1 leg to allow for a tad more room). Now solder (taking note of polarity!) your favourite colour 3mm led to the end of the speaker cable giving the cable a bit of the loop as shown, imagine the switch moving on and off to allow for that. I use a 1000MCD blue, but use whatever colour suits YOU. Bend the legs of the LED as shown.



From here fit the switch as shown. The LED needs to be as high in the switch as possible to “throw” the light out of the switch.



Now simply wrap a few times with electrical tape to secure.



You may need to trim part of the shield to allow for a bit of room, just snip and fold back is the easiest.



Fit the switch back into the switch housing.



Fit the case back together, plug up the console and turn it on!

