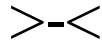


>-< DREAMBOX LED MODIFICATION



Parts used:

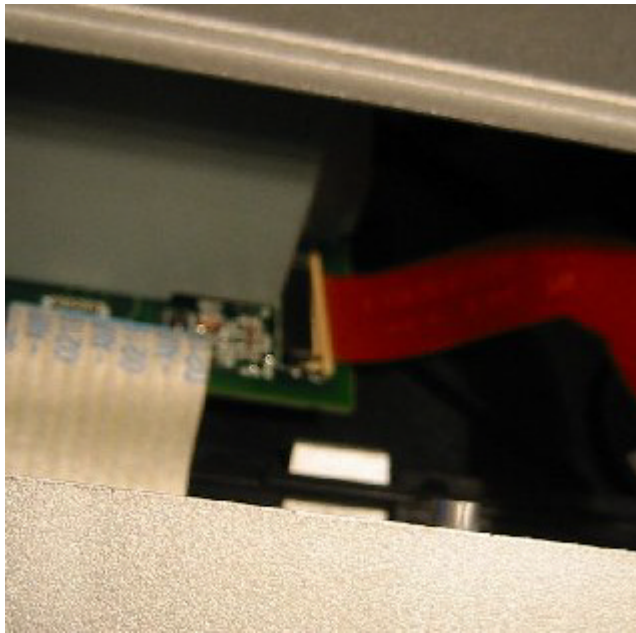
1. 5mm Ultrabright LED Right-Angled, Red. [RS Part# 246-5926] x 6
2. Black Electrical Tape & Sharp blade
3. Pin-Head Soldering Iron
4. Solder & Wick/Sucker (optional)
5. Torx Screwdriver T6 for Case, T20 for Board
6. Balls Of Steel :)

First, Remove the Torx Screws (T6) from the case sides, and the 3 phillips self-tappers from the rear.. Then slide the cover back away from the front of the box to reveal the display sockets. Unclip the front panel at the sides, and let it fall foward. (see below)

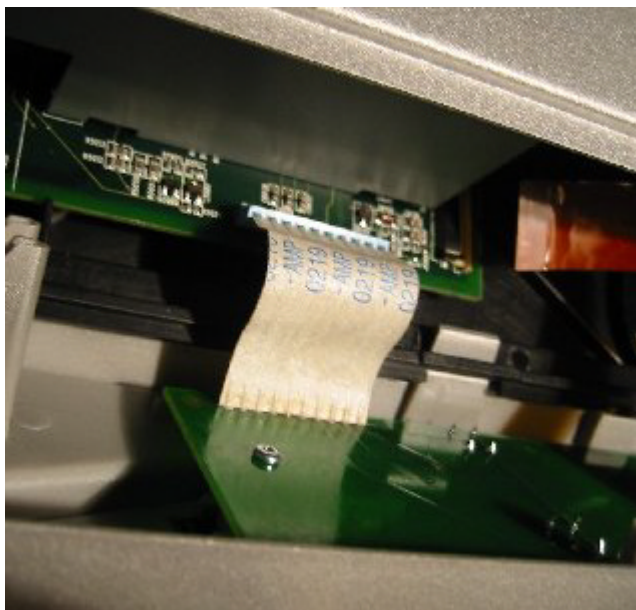


Inside the Dreambox, unclip the Orange ribbon Cable on each side, and slide it out (shown unclipped on one side below)

>< DreamboX LED Reloaded ><

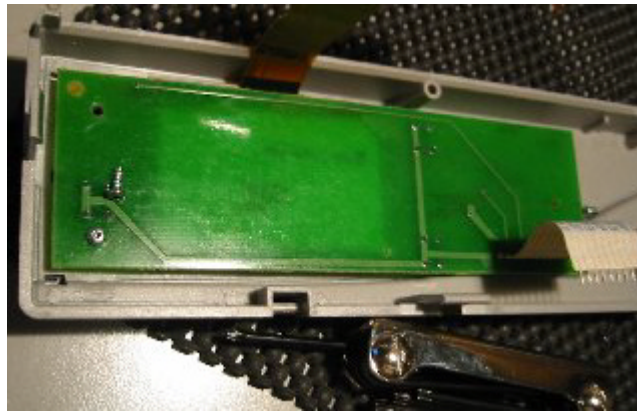


Then Hold the Paper ribbon firmly and pull it out steadily, and try not to bend the pins - don't worry, it "snaps" back in easily :)

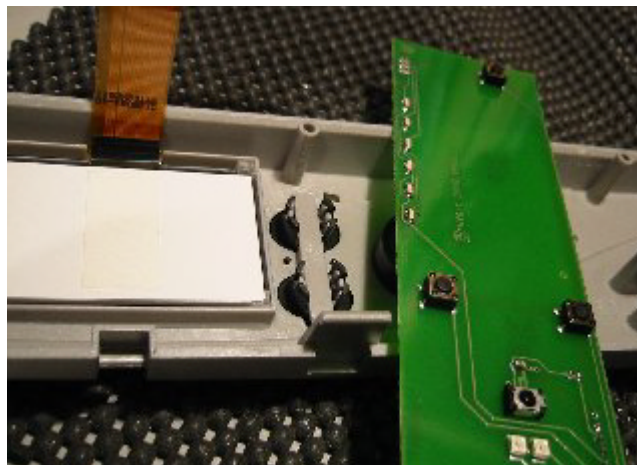


Undo the 3 Small Torx (T20) screws from the LED board..

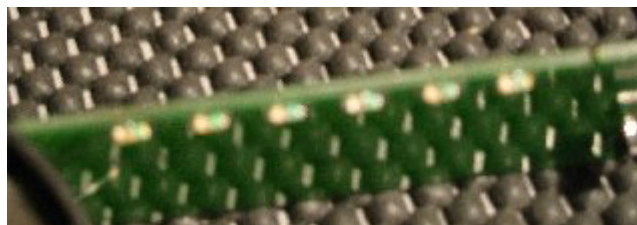
>-< DreamboX LED Reloaded >-<



And lift it off.. See the LCD panel below? see the Gap above it? This is where the LEDs poke through and backlight the display.. you MUST re-attach the LEDs so they sit neatly in this gap.. so give it a good look now, and note How far down the board the LEDs are attached.. It's important you put the new ones on in a straight(ish) line to keep the display-light even..



No look at the Orientation of the LEDs.. See how they have a Green mark on them? That's important.. Green blob to the right as you look at the board from in front and above.. If you get this wrong, it will not work (duh! - crap picture.. no good at macro. sorry)



Now Remove the LEDs from the board. It's easy.. just tip the hot soldering iron off the solder blobs at the rear of the led, one after another, back and forth, again and again (should only take about 3 or 4 to do it..) and the solder will soften enough for you to slide the LED off.. Keep it safe, it still works you know :) Then you can tidy up the remaining solder blobs.. just tip the iron off them till they run liquid.. then they will set in a nice dome.. if the dome is a bit small.. top it up

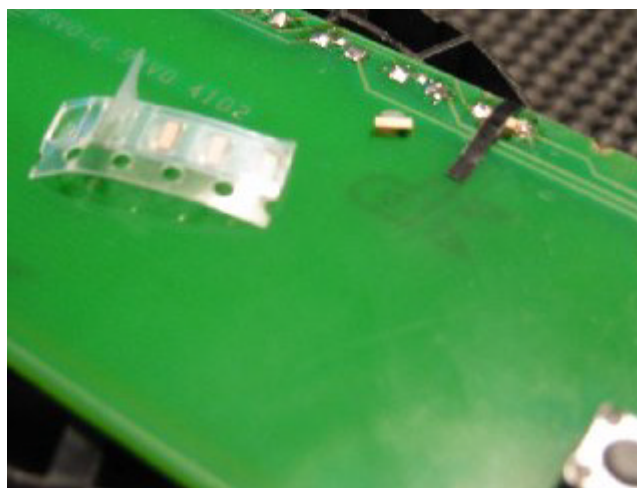
>< DreamboX LED Reloaded ><

on them all they run liquid, then they will set in a nice dome.. if the dome is a bit small, top it up a little with some solder, but not alot.. you need VERY little..

Now get out your LEDs (shown in a strip on the left below) and cut some tiny strips of electrical tape.. best to use Nice flexible stuff, i like 3M..



Position the LED over the 2 stumps on the board, flush up against the stumps, on the board is good, and Tape it down, making sure the green blob is on the correct side (the right!!).. then do the same trick you did to remove the LEDs before, tip the 2 Solder Stumps with the soldering iron, back and forth, except this time apply some pressure on the LED with a finger and "slide" it into the molten solder stumps while they are liquid.. when it's where you want it, blow on it and it will stay there.. Don't worry if the Tape melts, it's easy to pick off afterwards. The LED should look neat, but it doesn't have to be perfect.. just as long as the 2 stumps haven't joined together, and the LED is properly attached you should be OK.. But if you "Slide" it correctly, it's easy to get the hang of, the Tape strip acts as a guide for you!



After doing the 6 LEDs, Re-assemble your dreambox and check the light is even accross the display.. if parts are dim, you should be able to work out Which LED needs moving and you

>-< DreamboX LED Reloaded >-<

can attempt another "heat & slide" job to match the Dim LED's orientation to one of the brighter ones..



Just take your time and it will all come together for you.. Just buy more LEDs then you need so you can make mistakes and try again, they _are_ cheap.. and if you think you may make a mess, have some "solder wick" or a "solder sucker" handy so you can clean the stumps totally of solder, making them smooth and alot easier to "slide" onto.. Then Position & tape the LED right over the Pads, and dab some new solder on to attach it.. Then you can take your time and do 1 side at a time.. This may work better for you, but i find the LEAST time i spend touching the LED with the soldering iron, the better..

Good luck!

Faq by Marta