

LCD Screen Replacement

I now had a working 512K 3a, a 3a with a faulty screen and no main board, a bottom half of 256K 3a with a faulty main board, and a top half with a broken hinge and a working display. So I decided to use the failed upgrade main board with the faulty screen and no main board, but that left the problem of the faulty screen. That left the only option of removing the LCD screen from the casing of the top half with the broken hinge and swapping it for the faulty screen as the case has the intact hinges.

1. I first selected the case with the faulty screen and the intact hinges. I then carefully peeled off the screen bezel by using a small screwdriver in-between the bezel and the backing, which is either the LCD glass or the plastic holders on the side. I ruined the bezel by exerting too much pressure with the screwdriver so it created a bulge in the thin plastic or metal sheet - not sure which. Work slowly, gently lifting the bezel as you go. Once removed, a thin plastic spacer on the far right needs to be removed by pushing downwards with a small screwdriver as indicated by the arrow and pulling it out. Next, using your thumbs on the LCD panel, push it to the right into the area vacated by the plastic spacer. It should be loose enough now to fall out of the casing. (psion060.png)
2. Rear of LCD panel. (psion061.png)
3. Front of LCD panel out of the casing. (psion062.png)
4. I then performed the operation outlined in step 1 again, but on the top half with the broken hinge and working display. Once removed from the case, I then used a solvent (WD40) on a cloth to remove the adhesive residue from the LCD glass, the plastics surrounds, and from the rear of the removed bezel. Use a plastic scraper or thumbnail to remove the large deposits. The cleaned up LCD panel was then inserted into the case vacated by the faulty one, by placing it off centre towards the right and sliding it underneath the clips. I then placed the thin spacer into the gap on the right and slotting it upwards to lock it into place. (psion063.png)
5. Cleaned rear of the bezel. (psion064.png)
6. Front of the bezel. (psion065.png)
7. I then used a tube of Evo-Stick Impact adhesive and smeared it on the rear of the bezel carefully not to put too much on as I didn't want it seeping out along the sides once I applied bonding pressure. (psion066.png)
8. I then re-assembled the rest of the parts as described previously. I snipped off a few legs of the IC's that I soldered as part of the upgrade to make it work again as a 256K 3a.
9. As good as new. (psion067.png)
10. Those observant amongst you would have noticed that the LCD screen not quite level, so make sure yours is before you bond the bezel .