

How to repair the white screen of a GD-77

Within the GD-77 there are some ribbon cables. One of them connects the main PCB with the displays PCB. Unfortunately that cable (for whatever reason) might get loose. However you may repair such pretty easy.

Minimum Tools needed: TORX T9 screwdriver plus a normal flat screwdriver with about 2mm.

Steps:

1. Turn off radio (if not already done so)
2. Remove battery



3. Unscrew Antenna (by turning it counterclockwise)



4. Carefully lift off the ON/OFF-knob



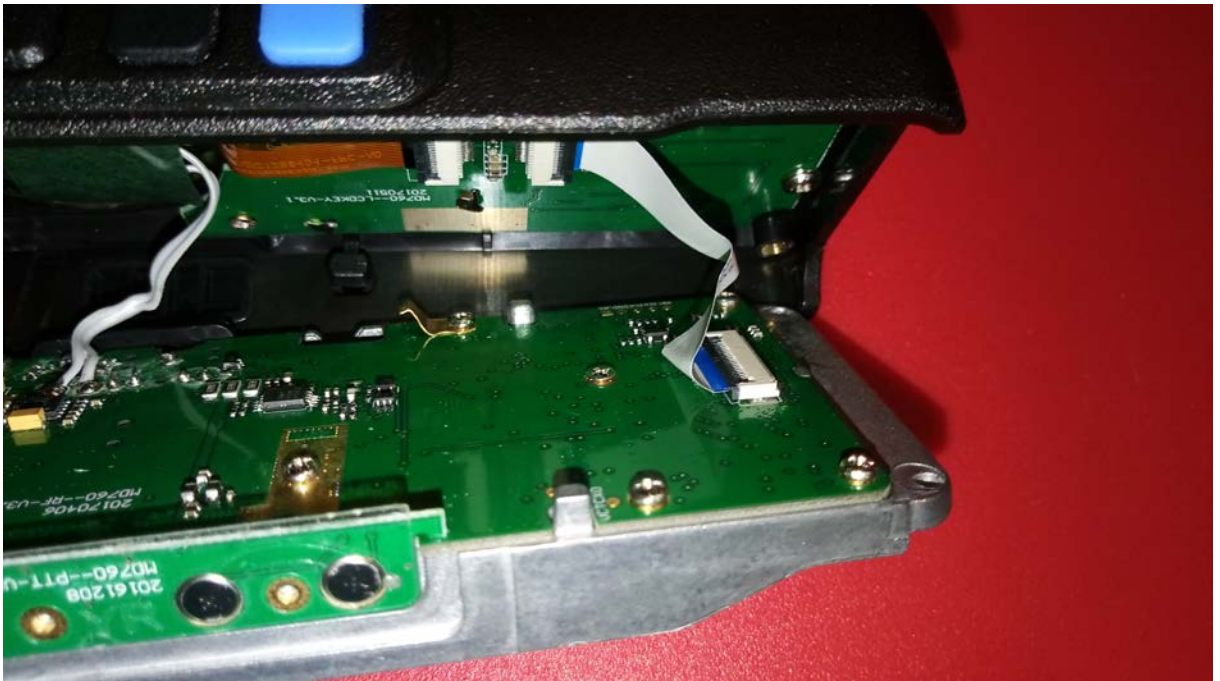
5. Now use the flat screwdriver and carefully remove the two nuts that fix the ON/OFF/Volume and the Antenna to the main body (also by turning them counterclockwise)



6. Now use the T9 Screwdriver to remove the two screws at the bottom of the GD-77's battery compartment



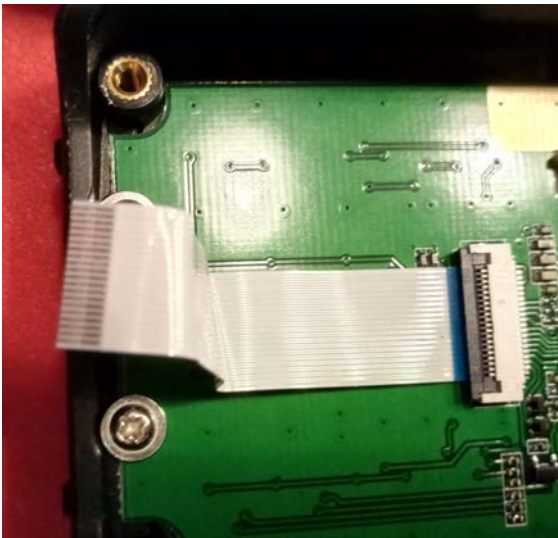
7. Carefully lift up the solid metal part from the plastic body. Do so only as much as is required to
8. Carefully shift out the metal part in a way, that the antenna-connector and the ON/OFF switch no longer reside in the remaining case. Be very carefully as you may damage the ribbon-cable that connects the main PCB (mounted top the metal-body) with the display PCB (mounted to the remaining case. Be very carefully with that!



9. Normally the ribbon-cable is fully inserted into its connector. In order for it not to get off its connector it is secured with a latch (that is the black part of the white connector as seen in the pictures).
10. Carefully open the latch of the main PCB (if the connector is to the left and the cable is (normally) routed to the right, then you may use your fingernail to carefully put it on the ribbon cable, facing the fingernail towards the connector. Now carefully lift up the black part of the connector (just 90°, no more!) in order to open the connector and release the ribbon cable. The silver shining contacts of the ribbon cable should be visible!



The above picture does show the connector with its latch in the open (upright) position.



11. Next open the latch of the display PCB (if the connector is to the right and the cable is (normally) routed to the left, then you may use your fingernail to carefully put it on the ribbon cable, facing the fingernail towards the connector. Now carefully lift up the black part of the connector (90°, no more!) in order to open the connector and release the ribbon cable. The silver connectors (on the left) and the blue isolation tape on the right should be visible!



The above picture does show the connector with its latch in the open (upright) position.

12. Now you may carefully clean the ribbon cable, using Isopropylalcohol, Isopropanol or something similar that does not destroy the cable and does not leave any substances on the ribbon cable when getting dry. I use a non-fluffy cotton cloth for this.



Put some of the Isopropyl-alcohol onto the fabric and wipe from the cable down the silver connections. Turn the cable in order to clean both ends. Only the side with the silver contacts needs cleaning.

13. In case you do have proper equipment for such, you may now check if all connections are fine between both ends of the cable. Normally a visual inspection is sufficient to identify any damages to the cable.

Now it's time to get it all back. So:

1. Take a look at the open connector. You will notice, that the connector has some sort of guiding for the ribbon cable. Bare that in mind when reinserting the ribbon cable into its connectors.
2. Take the ribbon cable with the longer part and its blue end upside and insert it into the display PCB connector.



3. Close the latch by carefully pushing it down towards the ribbon cable (so if the connector is on the right and the cable runs to the left, you would carefully push down the black latch from the right to the left resulting in a 90° turn downwards to the ribbon cable).
4. Now it gets a bit tricky (as the ribbon cable is not that long). Do the very same with the connector of the main PCB (on the left) by carefully pushing in the ribbon cable from right to left and finally closing the latch (by pushing from left to right resulting in a 90° turn downwards to the ribbon cable). Do all that very carefully. I can not stress this to often: The ribbon cable is not very long! Also take care of the two grey leads that connect to the speaker.
5. Now carefully push back the package into the case.
6. I am sure you already know what to do with the rest (securing antenna and ON/OFF-knob, reinserting T9-screws & knob. Connecting antenna, placing battery and

You are ready!

Good luck.