



Samsung LS32D85KTSR Power Supply Replacement

Here is a 32" Samsung LS32D85KTSR/ZA donor for a bad power supply. The Samsung power supply number is BN-00750. The monitor is also sold as SD850

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INTRODUCTION

This TV is going to become either a donor for the boards or a project to fit a different panel. This power supply is very hard to source and it appears to have common issues with one of the MOSFETs. That part is identified and is the last picture. Overall this is an easy task and takes no time at all.



TOOLS:

- [Phillips #1 Screwdriver](#) (1)
-

Step 1 — Power Supply



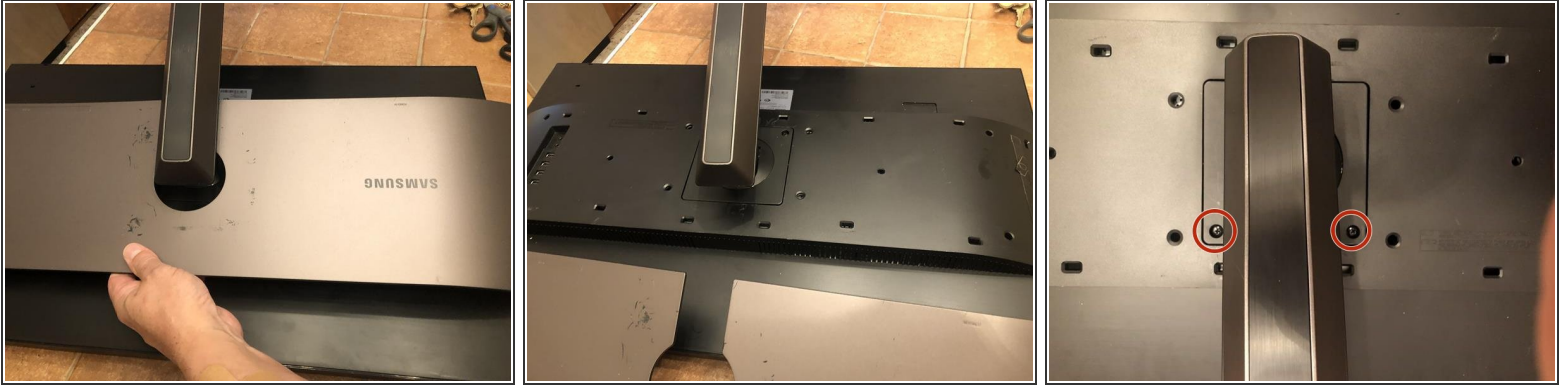
- Here is the Samsung monitor LS32D85K sold as SD850
- fairly clean and sleek design without frills
- This one has a broken LCD as well but needed to check the power supply. Monitor powers on = power supply working

Step 2



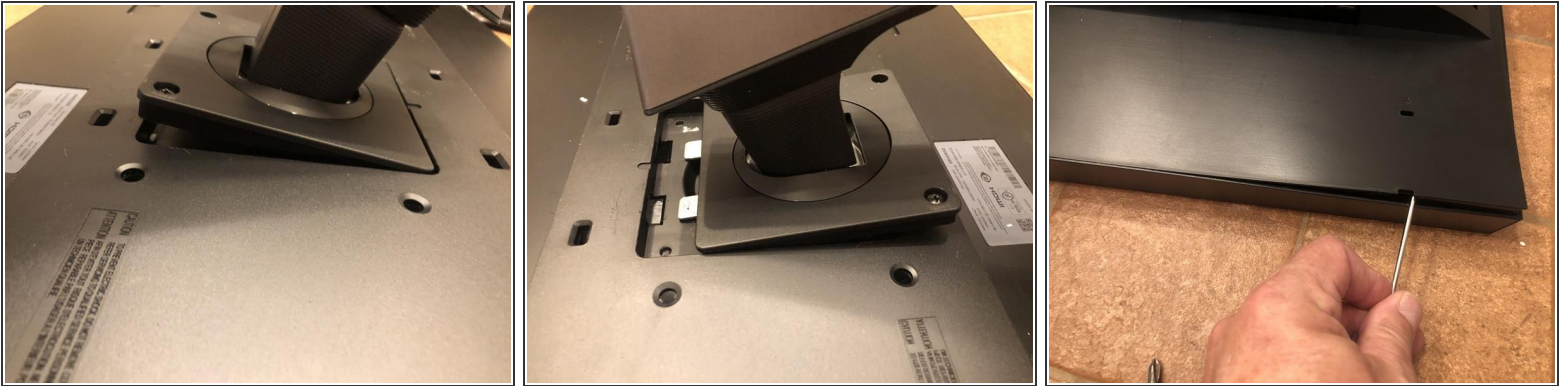
- First is the removal of the plastic that covers the midsection of the back cover. Simply pull straight up on the midsection.
- Continue to move along one side
- until the end to release the snaps. No tools needed

Step 3



- Lastly unsnap the opposite side
- Remove the cover to gain access to the stand.
- The stand is fastened to the monitor by two (2) Philips head screws. Remove those

Step 4



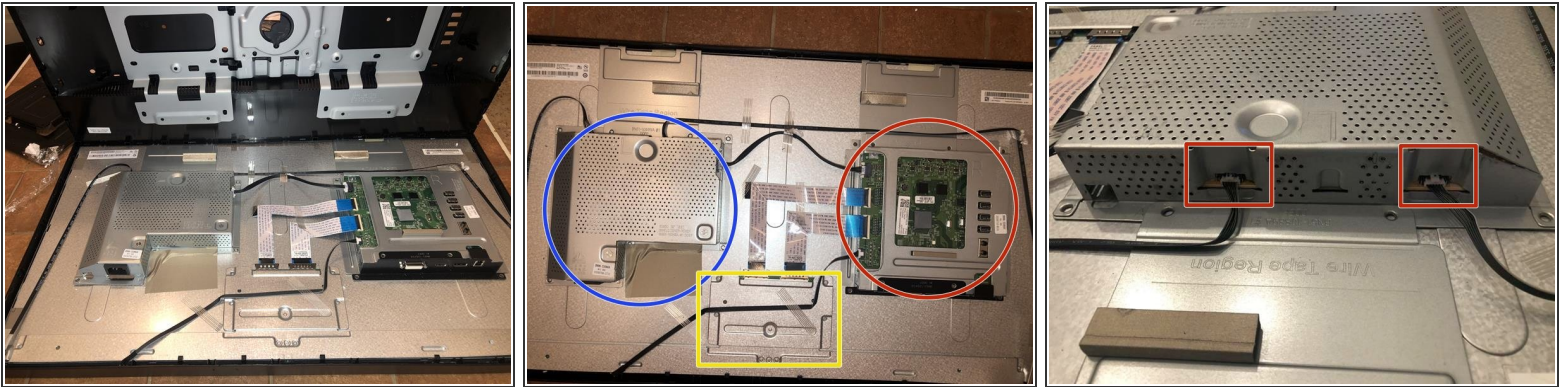
- With the screws removed, tilt the with the screw holes up
- now pull the stand back to release the two metal tabs to remove the stand.
- On the top left corner of the back cover is a small release opening to insert either a plastic removal tool or similar. Here a flathead screwdriver was used. Insert it and gently lift it to release the first tab

Step 5



- move the tool along the top line to release more tabs all the way to the end
- and finally along the sides. As the tool moves along the holding tabs will unsnap. Some areas required more of a lever action to release them. NO great force needed for this
- Once all the tabs release the back will simply come off.

Step 6



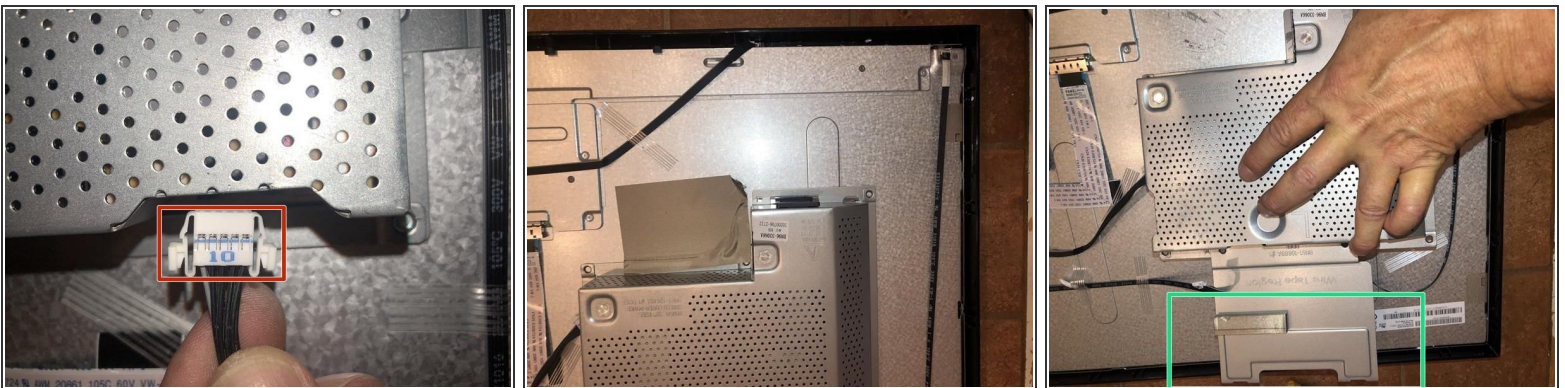
- Lift the back cover of and out of the way will reveal the boards
 - Power board
 - Main board
 - T-Con board
- On the top of the power board are two flat ribbon cables. Those are the backlight cables which need to be removed.

Step 7



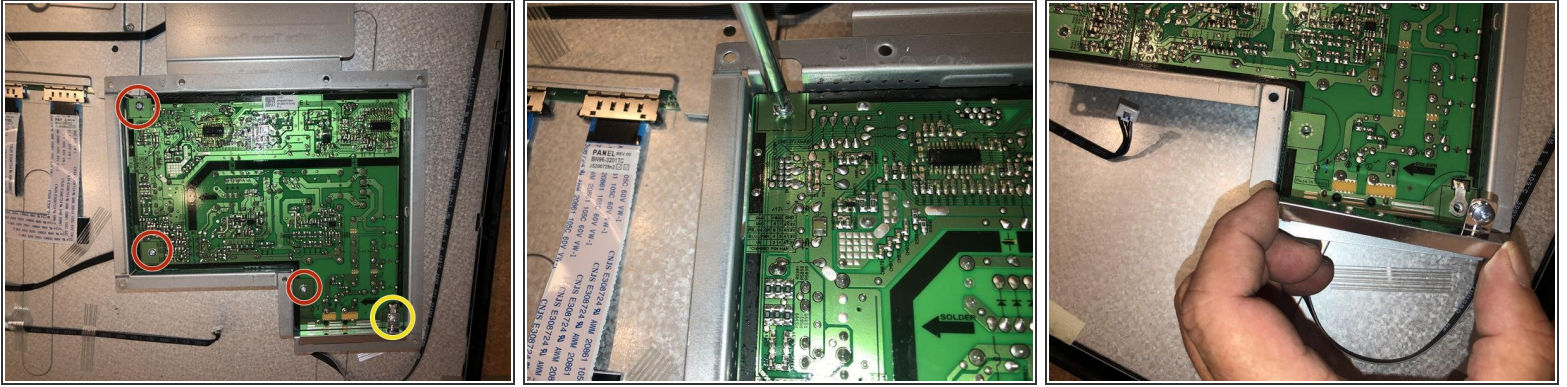
- Removal of the left cable by simply pulling on the white connector (never the cable)
- Next remove the right backlight cable
- On the side of the power board is a connector labeled with the number 10. This is the connection between the main board and the power board. Remove that cable

Step 8



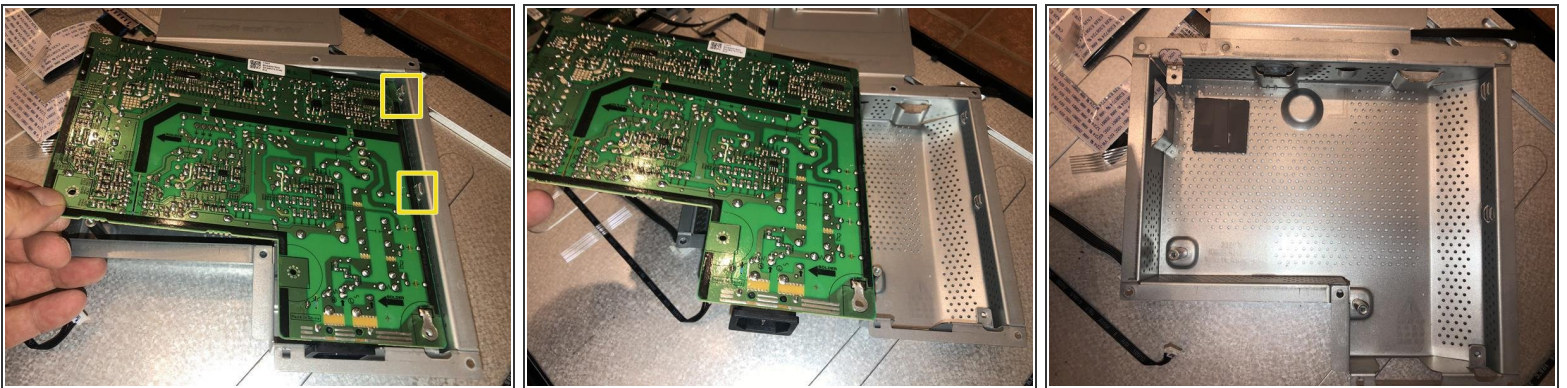
- To release the cable from the connector, simply squeezing the two tabs on the side and a gentle pull on the connector will release the cable.
- Interestingly enough the power board holder does not use any fasteners on the chassis etc. It is simply held in place by some adhesive strip.
- Pulling the adhesive strip off and sliding the power board holder off the lip of the monitor, allows its removal.

Step 9



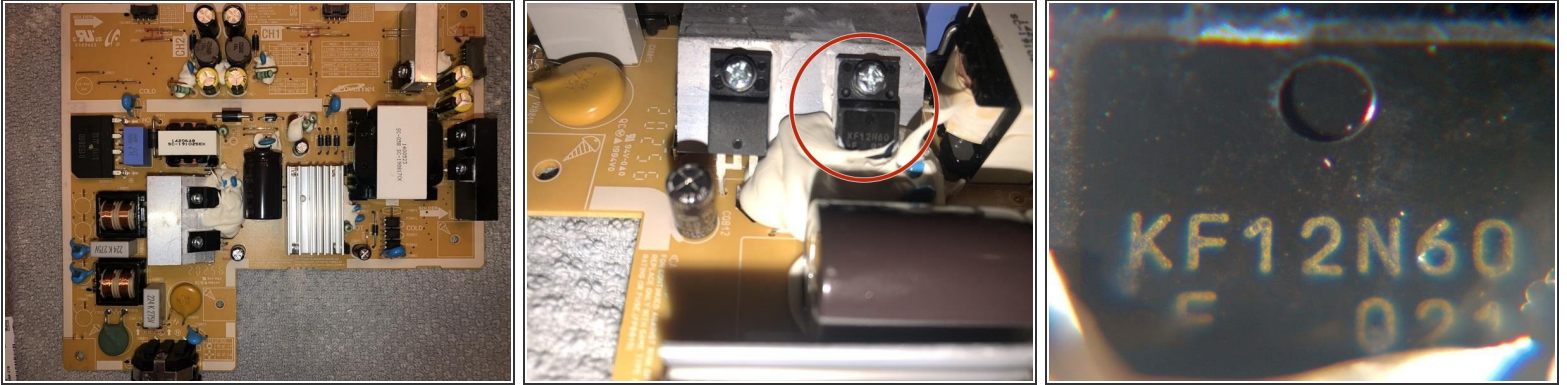
- Turn the power board loder over to get a good visual of the board. It is fastened with four (4) Philips head screws.
 - One (1) of the screws appears to hold the ground trap in place as well
- Remove the three (3) screws first
- Then remove the Philips head screw that holds the board and the ground strap in place

Step 10



- With all the screws removed angle teh board so as to free the two metal tabs on the side of the holder
- Pull the board to the side and remove it
- Here is the holder with what appears to be either a thermal pad or insulation pad.

Step 11



- Turn the board over to visualize the component part side.

⚠ Whenever one works on a power supply one must remember not to touch the components since the capacitors may still be charged and could cause fatal electrical shocks. Discharge the capacitors before working on the board.

- There is a reason for all that goop. That is the MOSFET that appears to be the Achilles Heal of the power board.
- That is a KF12N60 N CHANNEL MOS FIELD EFFECT TRANSISTOR.

To reassemble your device, follow these instructions in reverse order.