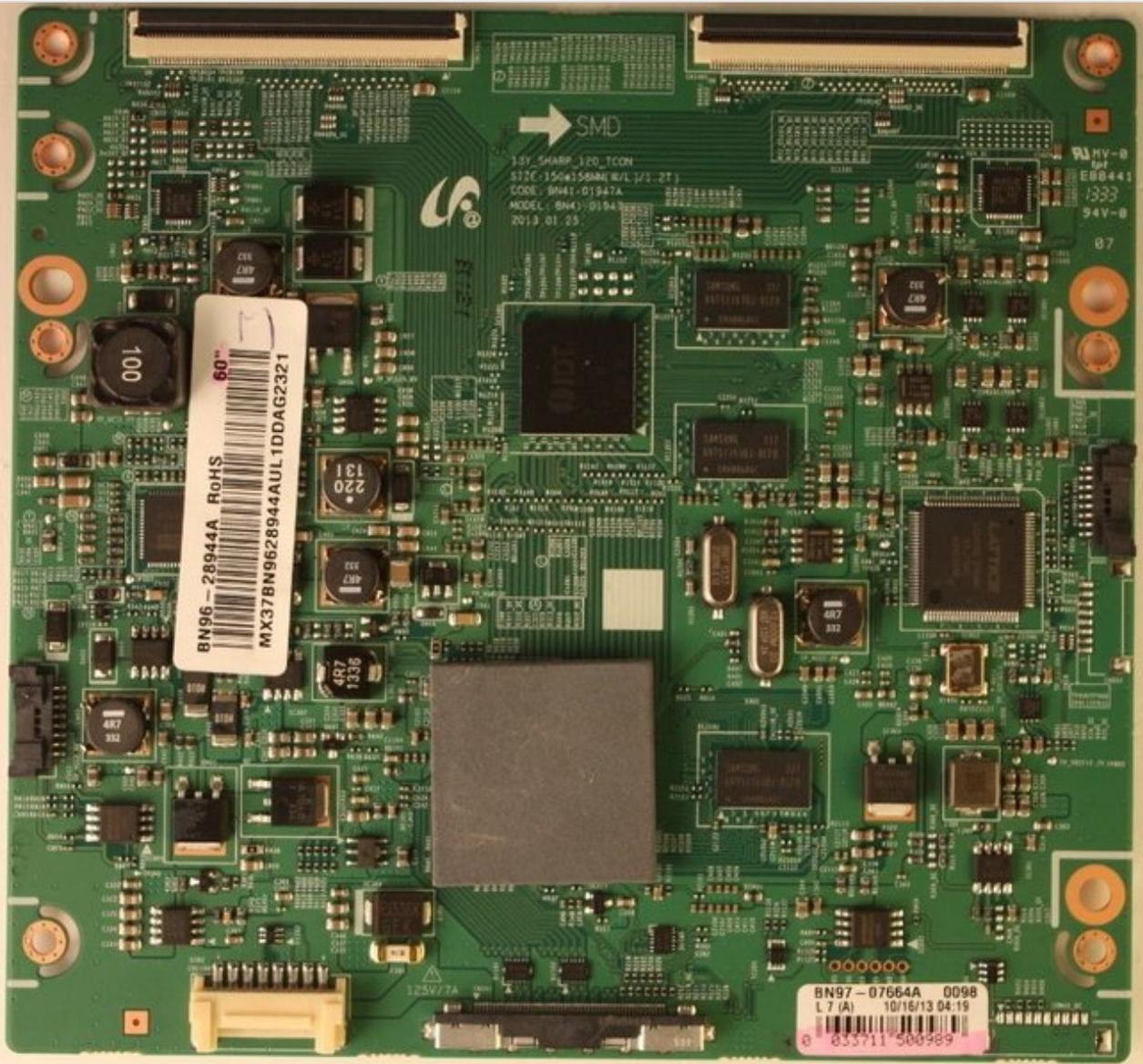




# Repairing Samsung 60" LED TV UN60FH6003FXZA T-Con failure

Symptoms: - TV turns on - Have sound - dark screen (backlight on, changes brightness depending on content) - can turn TV on/off, change channel, etc. with remote  
Diagnosis: - T-Con board failure (most likely), everything except picture was working

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## INTRODUCTION

### Board Specifications:

Samsung UN60FH6003 Timing Control (T-Con) Board P/N BN96-28944A (BN97-07663B)

### Symptoms:

- TV turns on
- Have sound
- dark screen (backlight on, changes brightness depending on content)
- can turn TV on/off, change channel, etc. with remote

Other symptoms this fix would most likely solve:

- picture shows inverted colors
- screen has vertical lines
- half of the screen has no picture (backlight still on)
- symptoms that suggest the video processing unit is malfunctioning, while all other things seem to be working

### Diagnosis:

- T-Con board failure (most likely), everything except picture was working
- Main board failure (less likely), main board couldn't process visual information

### Fix:

1. bought replacement T-con board (I bought from ebay) - Board P/N BN96-28944A (BN97-07663B)
2. open TV by removing back cover (place TV face down, remove all screws, lift plastic back off)
3. remove metal plate that covers the T-con board, at the bottom of the TV. use caution not to damage ribbon cables attached to the T-con board
4. disconnect top ribbon cable by squeezing the sides of the adapter and pull it out carefully

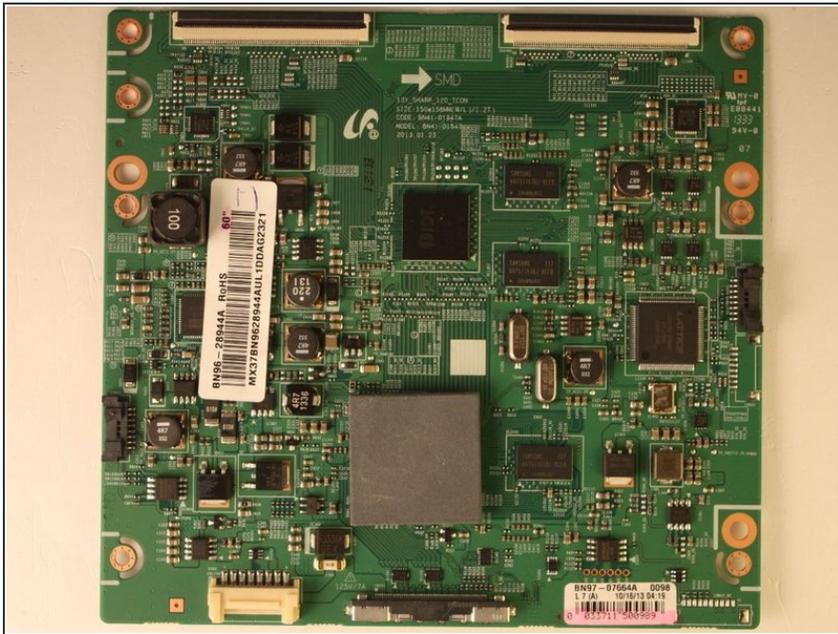
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5. disconnect bottom two ribbon cables. flip up plastic cover on the adapter/socket that locks the pins. lift out ribbon cables.
  6. remove and replace new T-con board
  7. reconnect all ribbon cables
  8. install the metal plate, tv back cover
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## TOOLS:

- [Phillips #2 Screwdriver](#) (1)
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## Step 1 — picture of the T-con board



- This is the T-con board (normally covered by a metal plate)
- top of picture are the two ribbon connectors that goes to the LCD panel, the cables can be released by flipping up the black horizontal plastic cover
- the bottom of the picture is the connector for the cable that goes to the main board, the cable can be release by squeezing the triggers on the sides of the cable
- use extreme caution to avoid damaging the ribbon cables (if they get damaged, replacement parts could be bought on ebay or other online sites)
- make sure you put all the plastic square pads (heat spreader?) back onto the new board on the appropriate chips

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