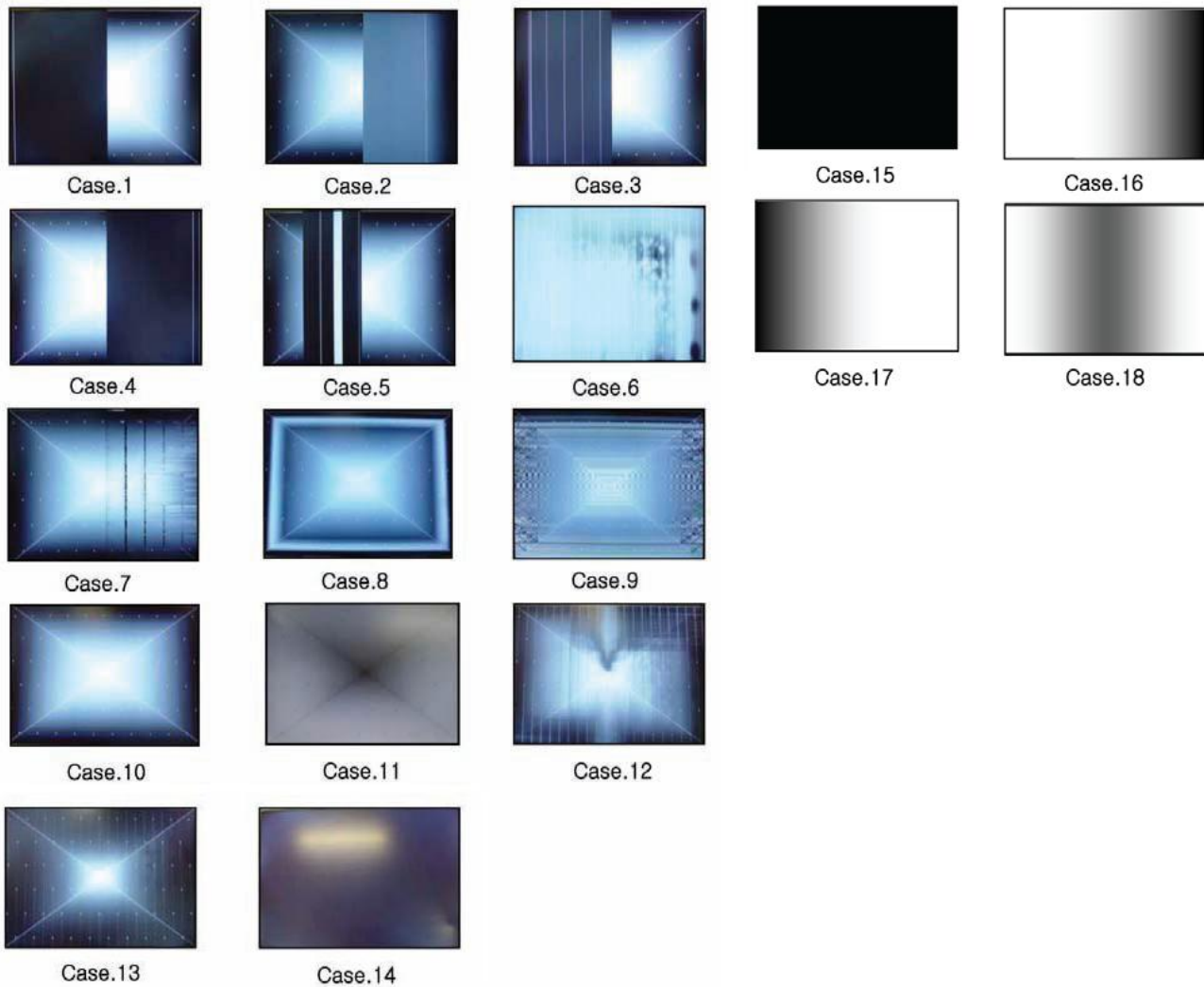


-LCD TV Display failure symptoms and possible causes-

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Case 1-Abnormal Display. T-Con, Solder defect, 1 or more cable connector Broken or with bad solder connections.

Case 2-Abnormal Display. T-Con, Solder defect, 1 or more cable connector Broken or with bad solder connections.

Case 3-Abnormal Display. T-Con, Solder defect, 1 or more cable connector Broken or with bad solder connections.

Case 4-Abnormal Display. T-Con, Solder defect, 1 or more cable connector Broken or with bad solder connections.

Case 5-Abnormal Display. T-Con, Solder defect, 1 or more cable connector Broken or with bad solder connections.

- Case 6**-Abnormal Display. Bad components in power section of t-con.
- Case 7**-Noise. Solder defect or shorted components on t-con.
- Case 8**-Abnormal Display. Bad components in power section of t-con.
- Case 9**-Noise. Solder defect or shorted components on t-con.
- Case 10**-Abnormal Display. Bad components in power section of t-con.
- Case 11**-Abnormal Display. Bad components in power section of t-con.
- Case 12**-Noise. Bad solder connections, shorted or open components on t-con.
- Case 13**-Noise. Bad solder connections, shorted or open components on t-con.
- Case 14**-No display and back lights are lit. T-con Fuse Open or Bad components in power section of t-con. No voltage to t-con from main board or power supply(main board or power supply failure).
- Case 15**-No back light. Inverter failure or power supply failure.
- Case 16**-Dim back light. Inverter failure.
- Case 17**-Dim back light. Inverter failure.
- Case 18**-Dim back light. Inverter failure.

Replace or repair T-con/LCD controller board (also possibly main or PSU board for case 14) for cases 1-14.

Replace or repair inverter and or PSU board for cases 15-18.



Case.19



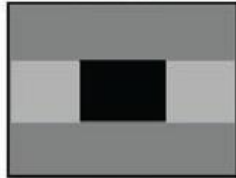
Case.20



Case.21



Case.22



Case.23



Case.24



Case.25



Case.26



Case.27



Case.28



Case.29



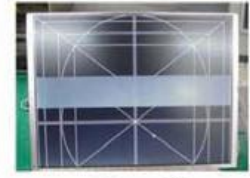
Case.30



Case.31



Case.32



Case.33

Case 19-Uneven display. cell defect.

Case 20-Uneven display. cell defect.

Case 21-Damage from applied pressure to panel. Bad panel

Case 22-Crosstalk. cell defect.

Case 23-Crosstalk. cell defect.

Case 24-Panel cracked.

Case 25-Vertical block. Failed driver IC, TCP/COF failed ACF bonding to panel, bad connection from driver IC to TCP/COF.

Case 26-Vertical line. Failed driver IC, TCP/COF failed ACF bonding to panel, bad connection from driver IC to TCP/COF.

Case 27-Vertical block. Failed driver IC, TCP/COF failed ACF bonding to panel, bad connection from driver IC to TCP/COF.

Case 28-Vertical block. Failed driver IC, TCP/COF failed ACF bonding to panel, bad connection from driver IC to TCP/COF.

Case 29-Horizontal block. Failed driver IC, TCP/COF failed ACF bonding to panel, bad connection from driver IC to TCP/COF.

Case 30-Horizontal block. Failed driver IC, TCP/COF failed ACF bonding to panel, bad connection from driver IC to TCP/COF.

Case 31-Horizontal line. Driver IC abnormal output. Failed driver IC, TCP/COF failed ACF bonding to panel, bad connection from driver IC to TCP/COF.

Case 32-Horizontal block. Failed driver IC, TCP/COF failed ACF bonding to panel bad connection from driver IC to TCP/COF.

Case 33-Horizontal block. Failed driver IC, TCP/COF failed ACF bonding to panel bad connection from driver IC to TCP/COF.

Replace LCD panel for cases 19-24.

Replace LCD panel or devise a technique for repairing bonding failure of TCP/COF for cases 25-35.

List of acronyms and abbreviations used and their meanings:

COF= Chip on film/flex

TCP= Tape carrier package

IC= Integrated circuit

T-con= Timing controller(board)

LCD= Liquid crystal display

ACF= Anisotropic conductive film

Suggested reading:

[LCD TV Repair Guide](#)

[LCD Monitor Repair](#)

[LCD TV Repair Case Histories](#)

[Troubleshooting and Repairing Switch Mode Power Supplies](#)

[Testing Electronic Components](#)

[How To Find Burnt Resistor Value](#)

[My Best Collection of Electronics Repair Articles](#)

[Electronic and Electrical Servicing Consumer and Commercial Electronics 2nd edition](#)

[Electronic and Electrical Servicing Consumer and Commercial Electronics Level 3 2nd edition](#)

[Digital Electronics Demystified](#)

[Teach Yourself Electricity and Electronics, Fourth Edition](#)

Suggested websites:

preher-tech.com

tvrepairinfo.com

electronicrepairguide.com

jestineyong.com

[LCD TV Repair Membership Site](#)

[Plasma TV Repair Membership Site](#)

[Projection TV Repair Membership Site](#)

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