

PDP TV Visual Troubleshooting Guide book

Version 1.0











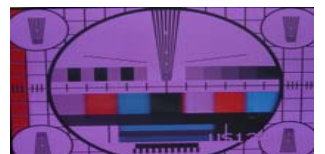

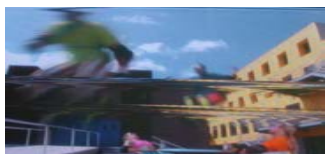


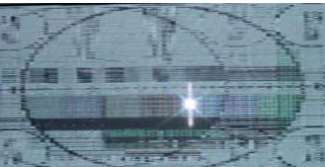
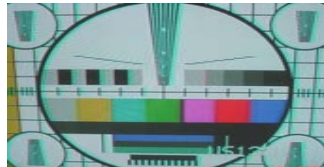





Service Academy Part
Customer Service Operation

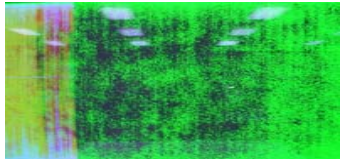


21.Apr.2006

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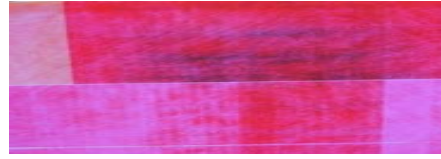
Flicker

[p.18]



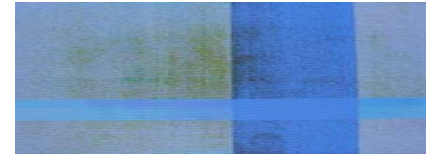
Flicker

[p.18]



Flicker

[p.19]



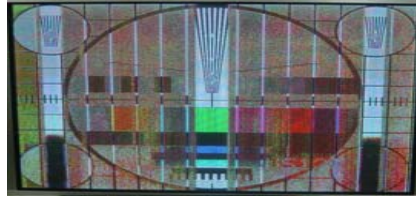
Flicker

[p.20]



Curtain Bar [No Signal]

[P.21]



Curtain Bar [Signal]

[P.21]



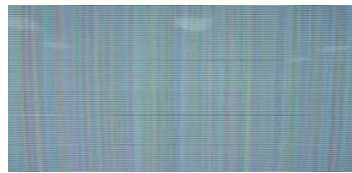
Horizontal Bar [No Signal]

[P.22]



Horizontal Bar [Signal]

[P.22]



Many BAR Same distance

[P.17]



Dark Screen & Mal discharge

[P.23]



Dark Screen & Mal discharge

[P.24]



Dark Screen & Mal discharge

[P.24]

No Raster

[P.13]

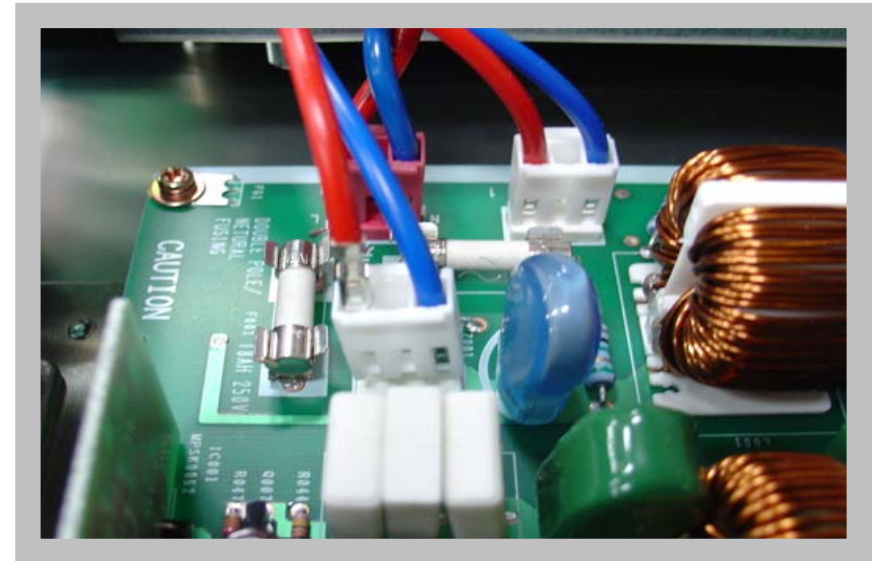
No Power

Check

PSU



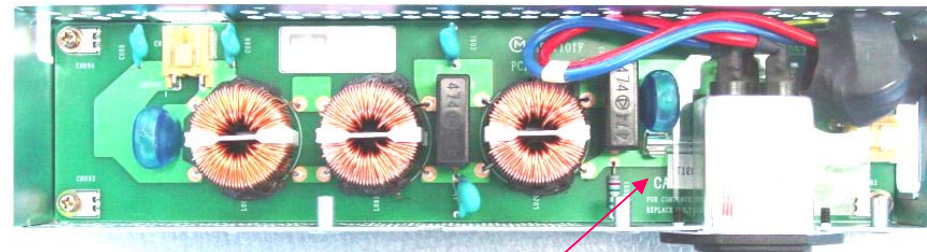
No Power
(LED OFF in ST-BY Mode)



Check the Power Supplying status and Main Power
S/W ON

Check EMI Board Fuse

Fuse should be 15A

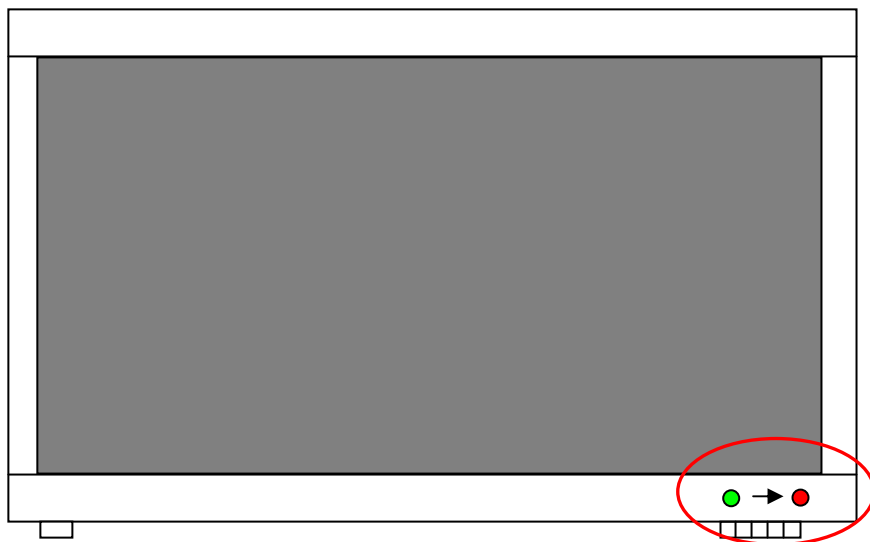


Fuse 15 A

No Raster

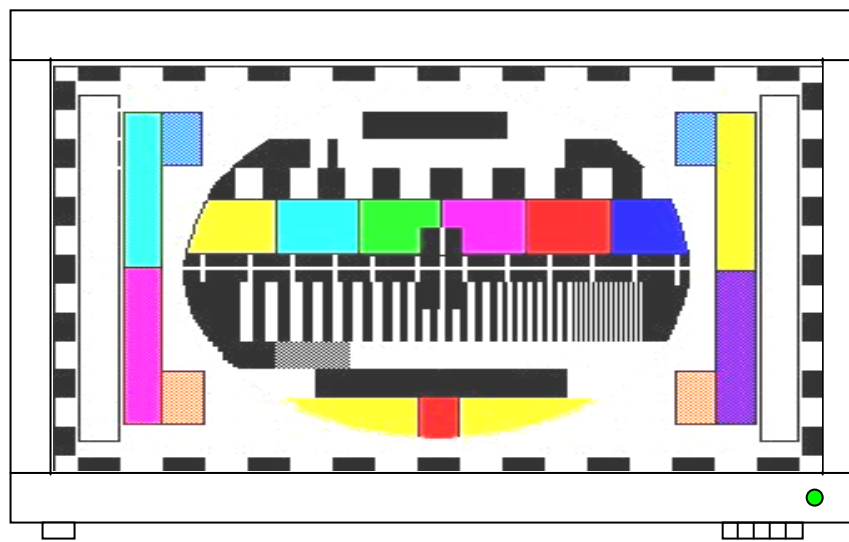
Check

Y-B/D



After Power On 2 ~ 3sec Automatically Off

(Green LED Turns to Red)

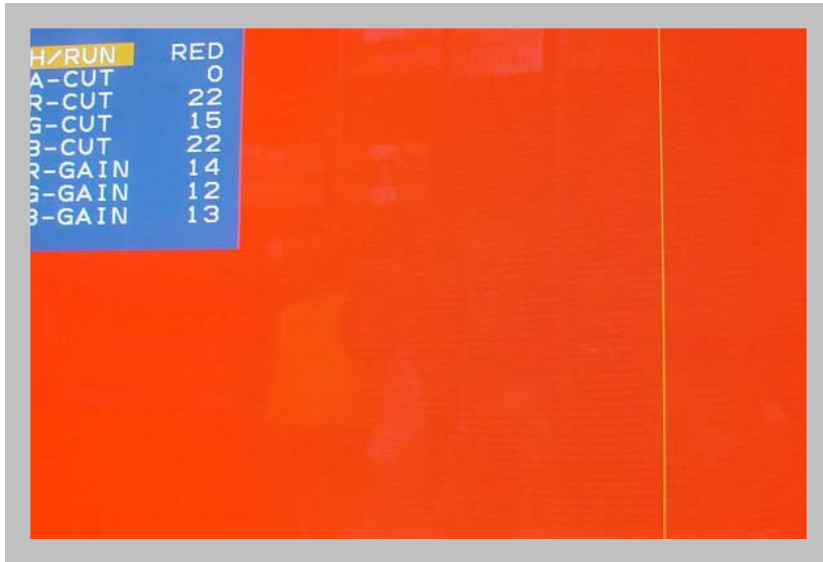


Normal Screen

- **Applicable Model** : ALL
- **Main Check** : Check the B+ Voltage at Each Port (VS, VA, V-Setup)
- **Symptom** : After Power on 2 ~ 3 Sec, Automatically Power Off (LED Turns to Red)
- **Remedy** : Replace Y- B/D

Color ADD Bar

Check Module



ADD Bar with Specific Color



ADD Bar with Specific Color

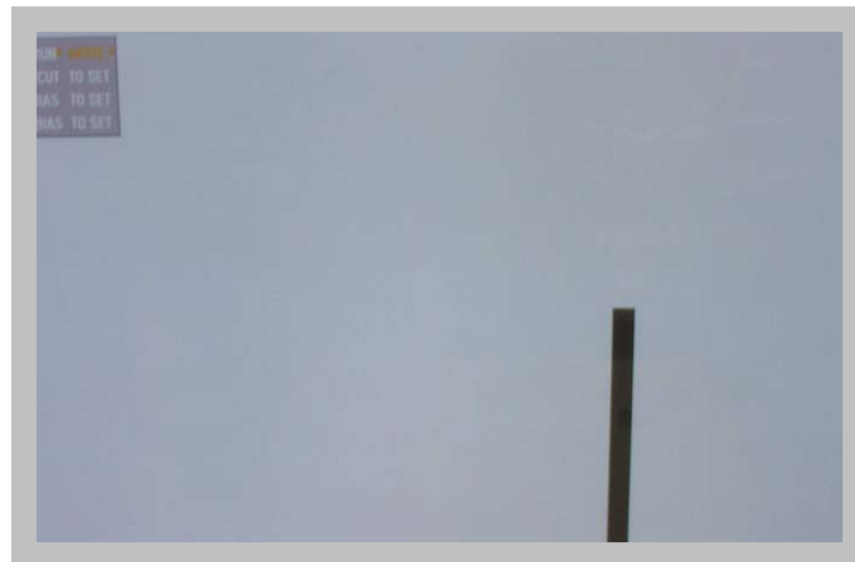
- **Applicable Model** : ALL
- **Main Check** : Check One-Line with a specific color when changing R,G,B
- **Symptom** : One-Line ADD Bar (Specific Color ex. Magenta, Cyan, Yellow)
- **Remedy** : Replace Module

Black ADD Bar

Check Module

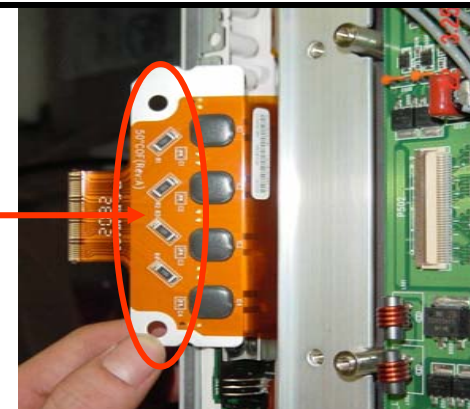


Black ADD BAR width 2 ~ 3 cm



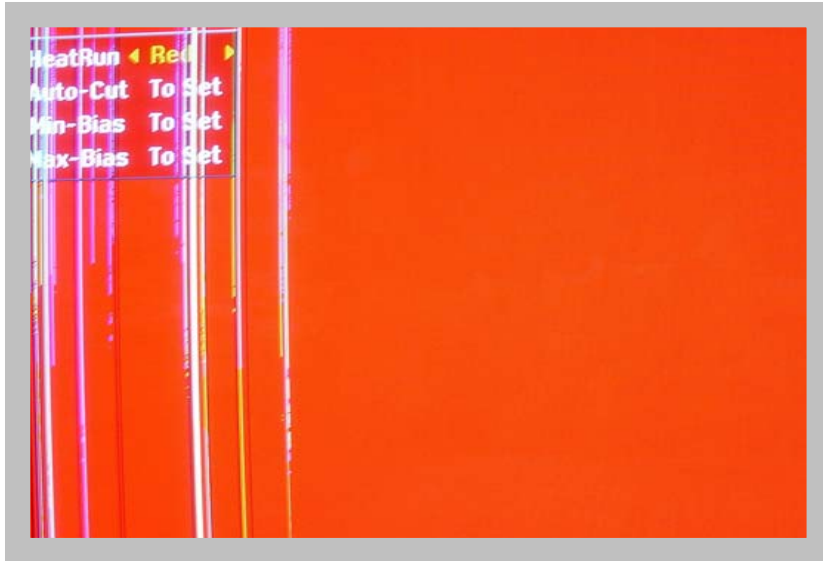
Black ADD BAR width 2 ~ 3 cm

- **Applicable Model** : ALL
- **Main Check** : Check 10 Ω register in front of COF IC
- **Symptom** : Black ADD BAR width 2~3 cm
- **Remedy** : Replace Module



Lots of ADD Bar

Check Module



A Series of ADD BAR



A Series of ADD BAR

- **Applicable Model** : ALL (KK Module)
- **Main Check** : Check Film connection in front of COF IC
- **Symptom** : A Series of ADD Bar
- **Remedy** : Replace Module

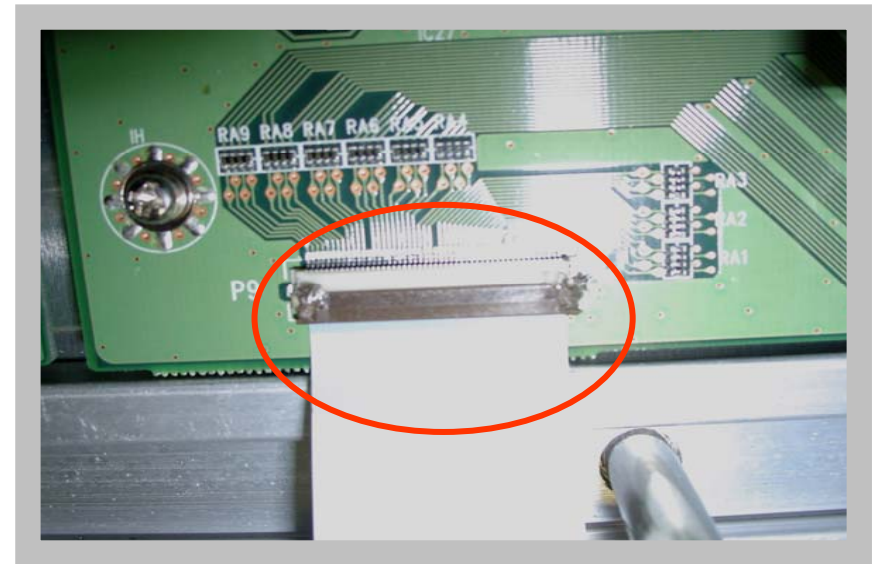
Color ADD Bar

Check

Film Connector



Color ADD Bar



Check the Film Connector between X-B/D and Control B/D

- **Applicable Model** : ALL
- **Main Check** : Check Film connector between X-B/D and Control B/D
- **Symptom** : ADD Bar width 5~6 cm(specific color, magenta, cyan, yellow)
- **Remedy** : Replace Film Connector

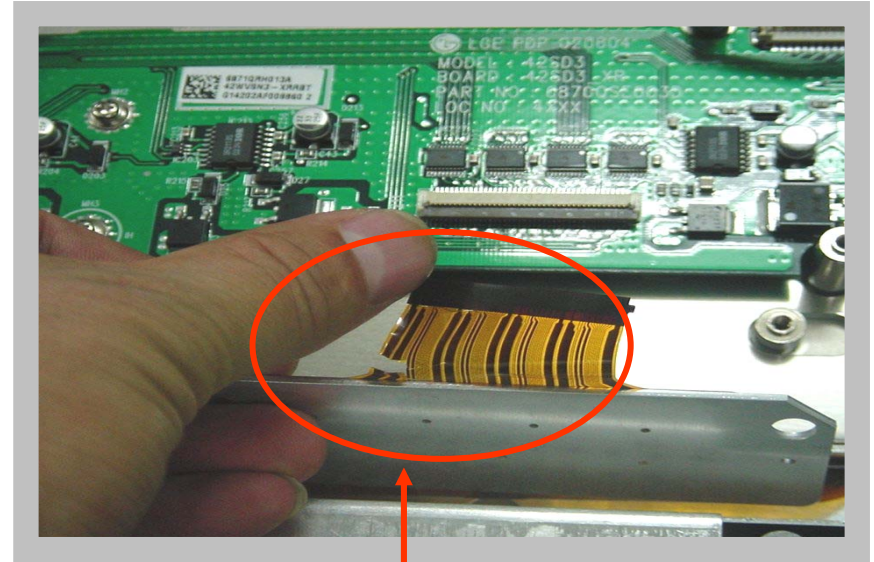
Black ADD Bar

Check

Module



Black ADD BAR



Check the film connector between X-Board and Control Board

Broken Film

- **Applicable Model** : ALL
- **Main Check** : Check Film connector between X-B/D and Control B/D
- **Symptom** : Black ADD Bar
- **Remedy** : Replace Module

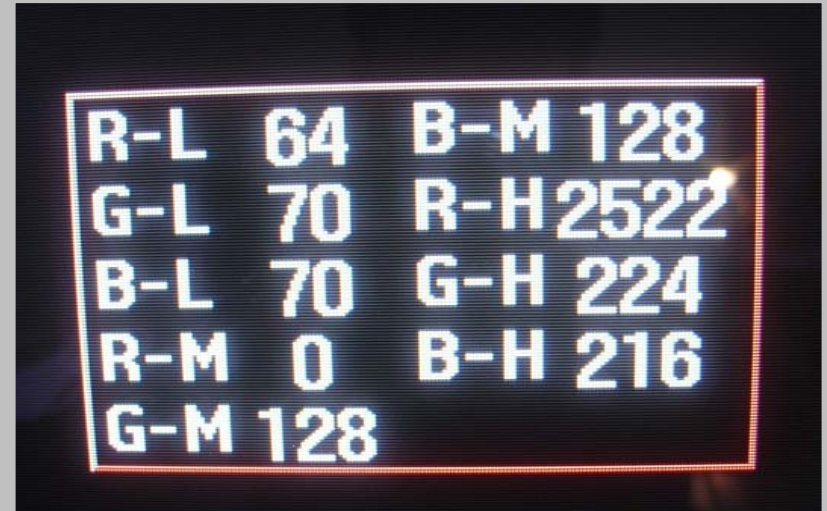
Reddish

Check

VSC-B/D



Reddish Screen



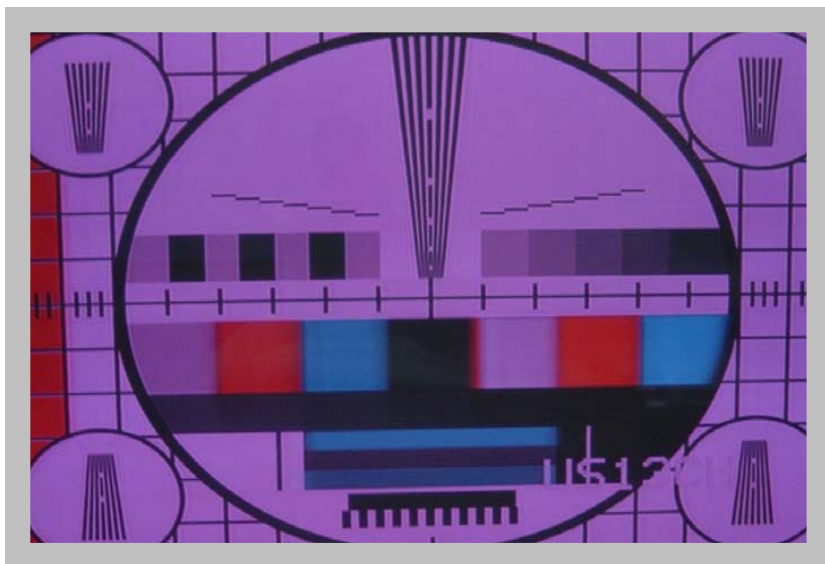
Wrong VSC Board DATA

- **Applicable Model** : M(X)-42PZ90
- **Main Check** : Check the Data at White balance mode
- **Symptom** : Reddish screen
- **Remedy** : Change the Data

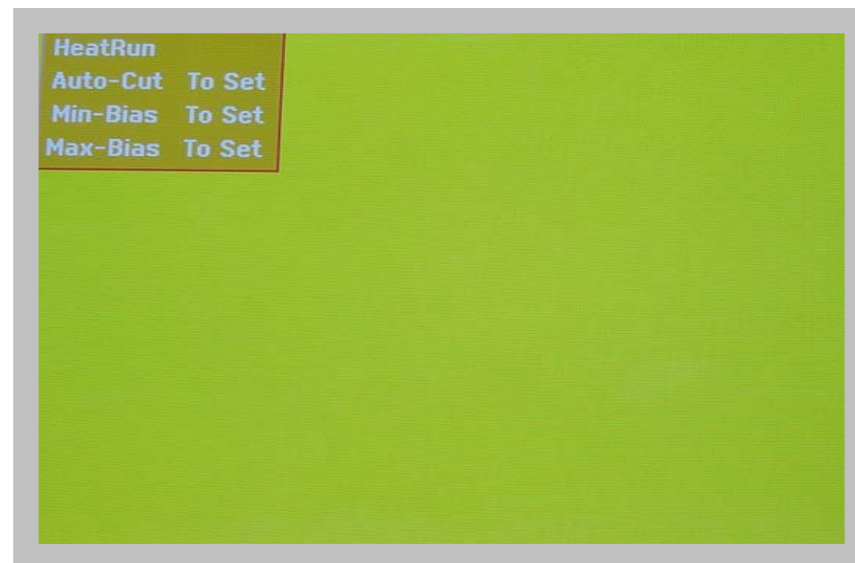
Color Missing

Check

VSC-B/D



Missing Specific Color



Missing Specific Color

- **Applicable Model** : ALL
- **Main Check** : Check Cable at VSC B/D and Settop Box
- **Symptom** : Missing Specific Color
- **Remedy** : Replace VSC B/D

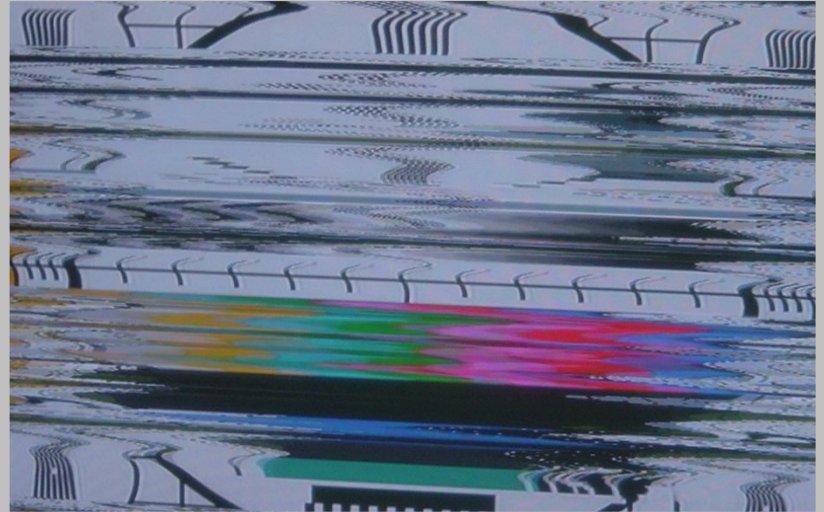
Distortion

Check

VSC-B/D



Screen Distortion



Screen Distortion

- **Applicable Model** : ALL
- **Main Check** : Check the Oscillation of VSC B/D
- **Symptom** : Normal OSD and Picture Distortion
- **Remedy** : Replace VSC B/D

Mosaic distortion

Check

VSC-B/D



Mosaic Screen



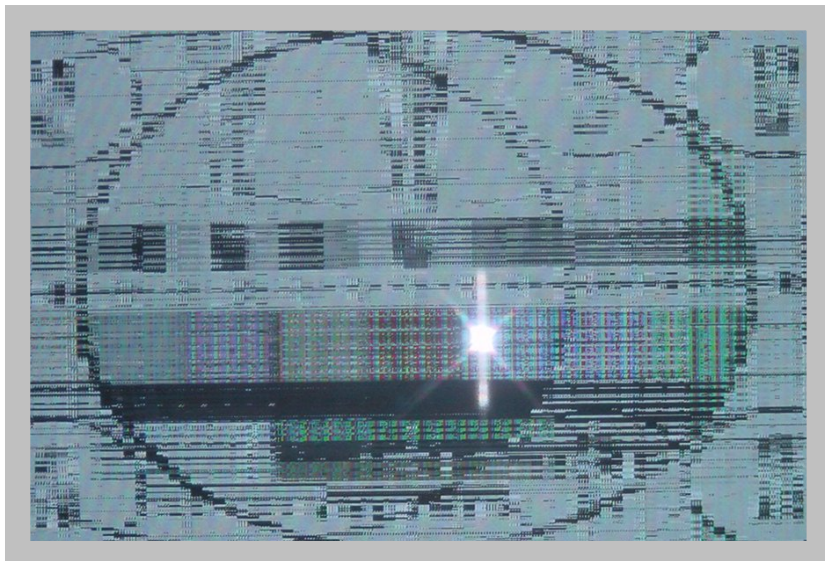
Mosaic Screen

- **Applicable Model** : **ALL**
- **Main Check** : **Check the Oscillation of VSC B/D**
- **Symptom** : **Mosaic Picture**
- **Remedy** : **Replace VSC B/D**

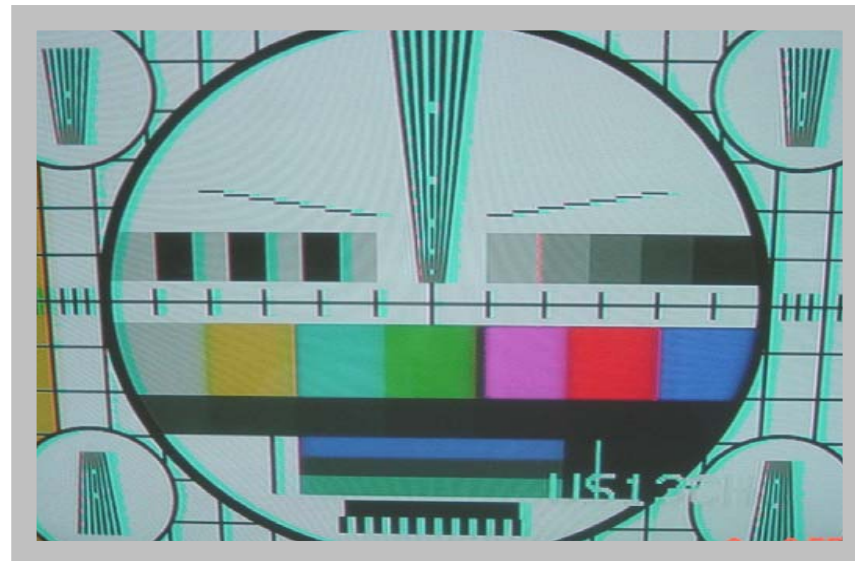
Distortion / Smear

Check

VSC-B/D



Screen Distortion



Smear

- **Applicable Model** : ALL
- **Main Check** : Check the Oscillation of VSC B/D
- **Symptom** : Distortion Picture
- **Remedy** : Replace VSC B/D

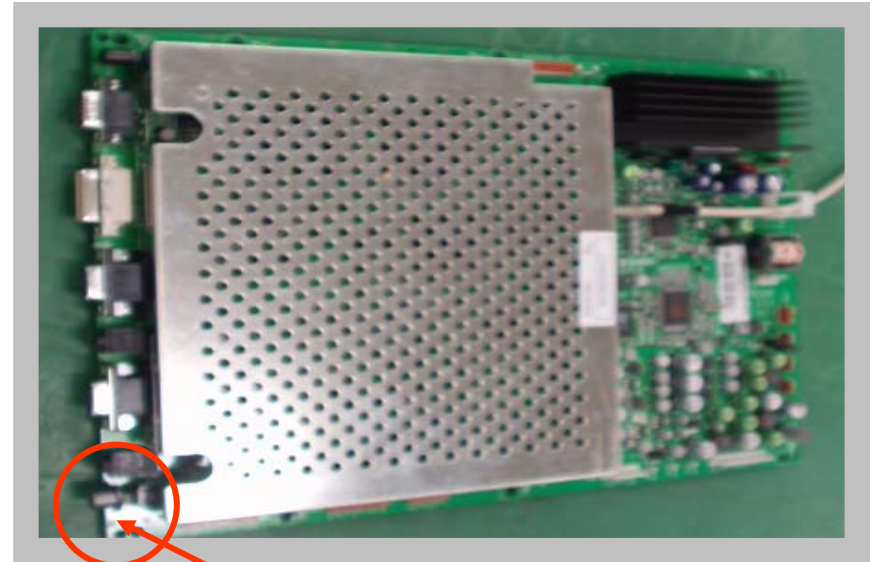
No Raster

Check

VSC-B/D



NO RASTER



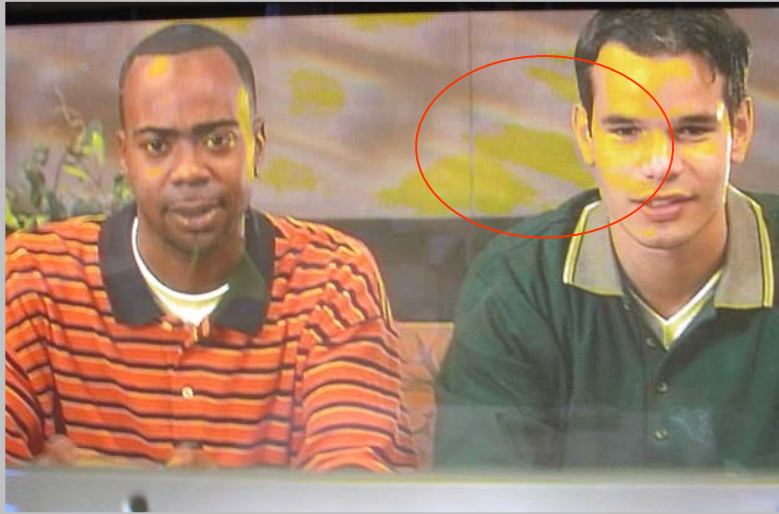
Check the Position of SVC S/W

- **Applicable Model** : ALL
- **Main Check** : Check the Location of VSC B/D 's SVC S/W
- **Symptom** : No Raster
- **Remedy** : Change the S/W location (S/W upgrade)

Flicker

Check

VSC-B/D



Flicker



Flicker

- **Applicable Model** : ALL
- **Main Check** : Check the VSC B/D
- **Symptom** : Mal Discharge of Specific Color
- **Remedy** : Replace the VSC B/D

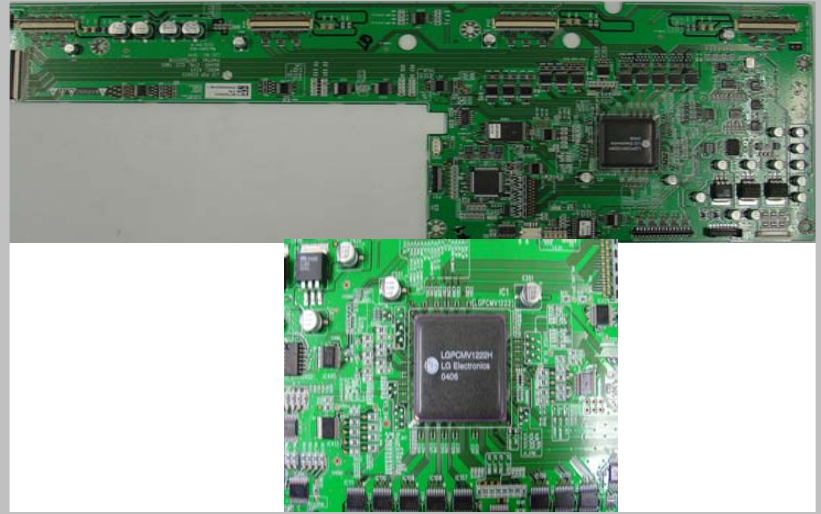
Flicker

Check

Module Control B/D



Flicker



Module Control Board

- **Applicable Model** : **M(X)-42PZ90**
- **Main Check** : **Check the Control B/D and Micom Version**
- **Symptom** : **Flicker**
- **Remedy** : **Replace the Module control B/D**

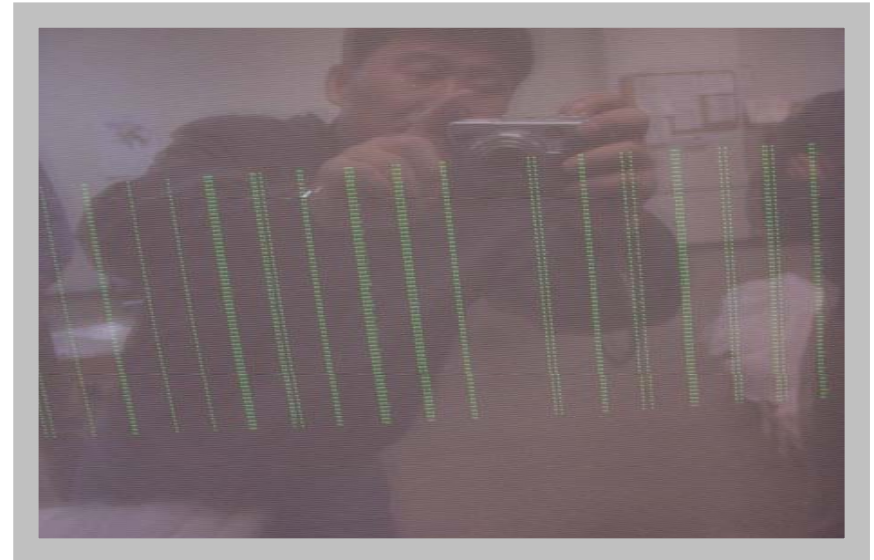
Same Distance Bar



Module Control B/D



BAR with same distance



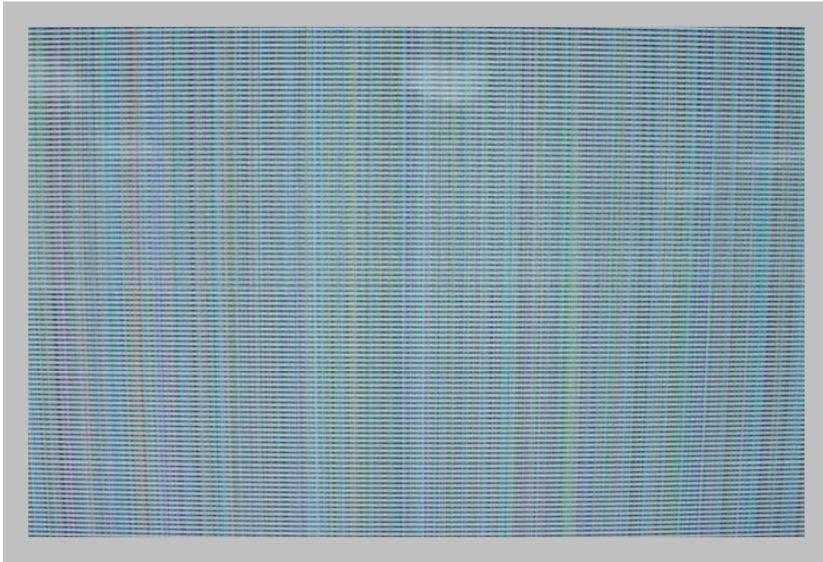
BAR with same distance

- **Applicable Model** : All
- **Main Check** : Check the Control B/D and Micom Version
- **Symptom** : Bar with same distance
- **Remedy** : Replace the Module control B/D

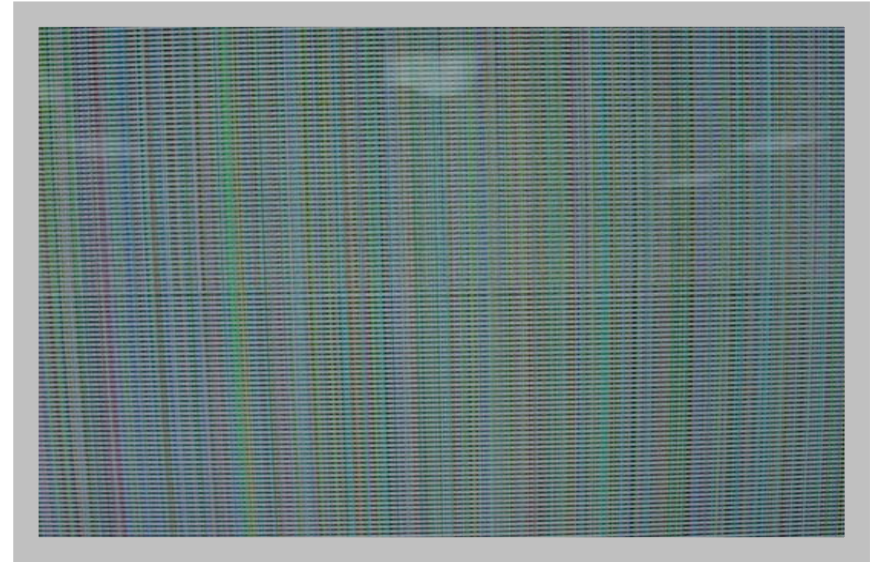
Same Distance Bar



Module Control B/D



BAR with same distance



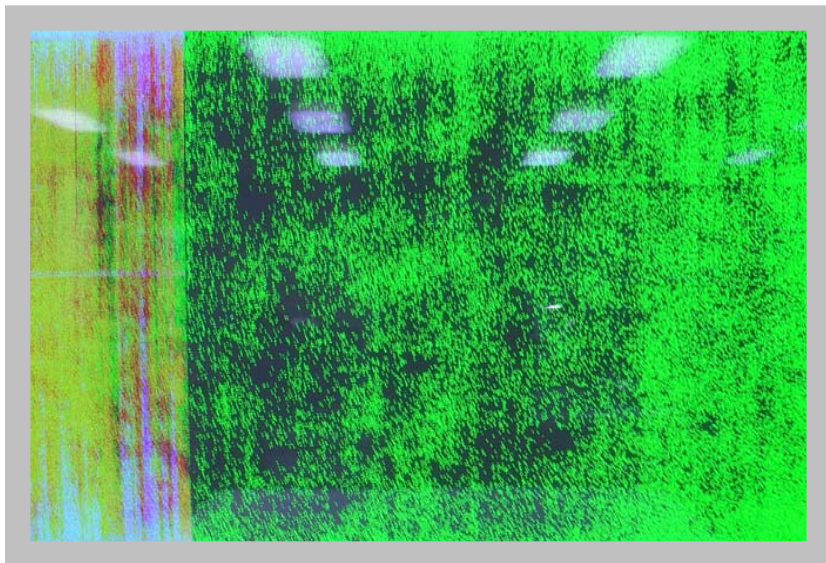
BAR with same distance

- **Applicable Model** : All
- **Main Check** : Check the Control B/D and VSC Connection cable
- **Symptom** : Bar with same distance or Normal OSD with Mosaic picture
- **Remedy** : Replace the Module control B/D

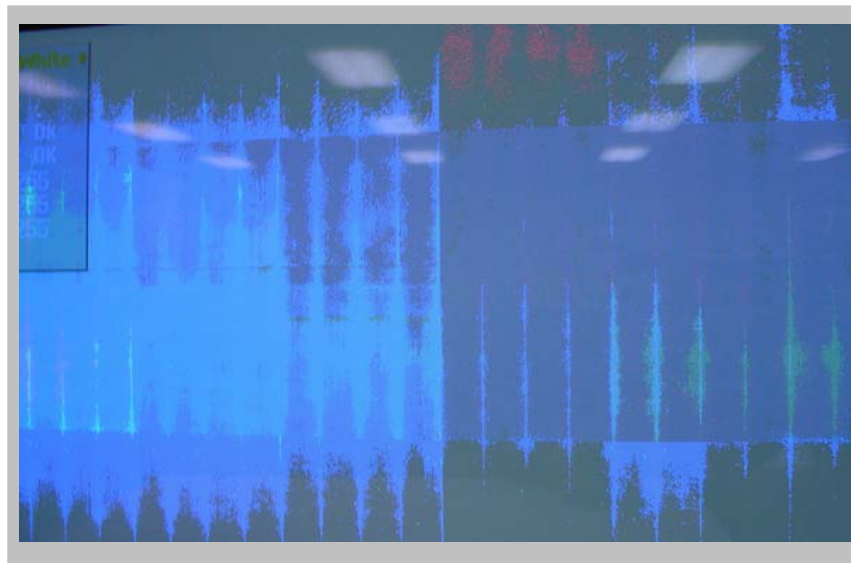
Flicker

Check

Y-B/D



Flicker

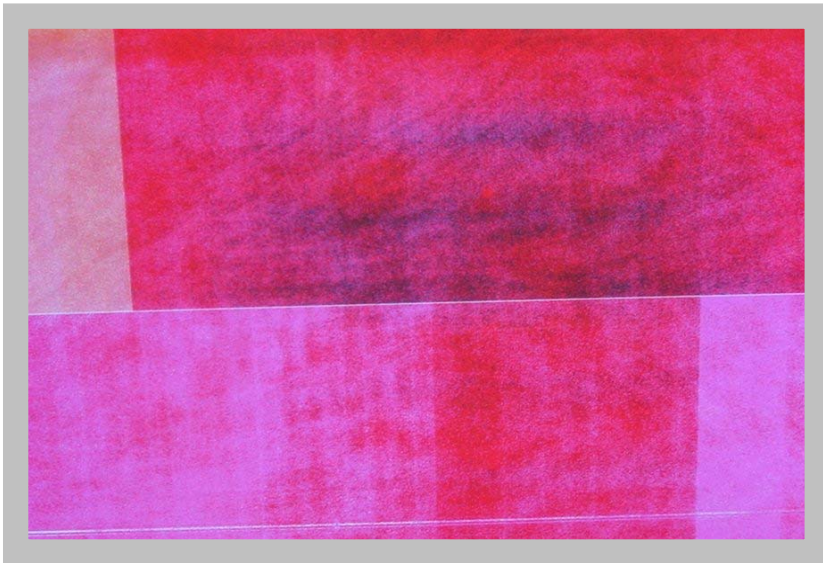


Flicker

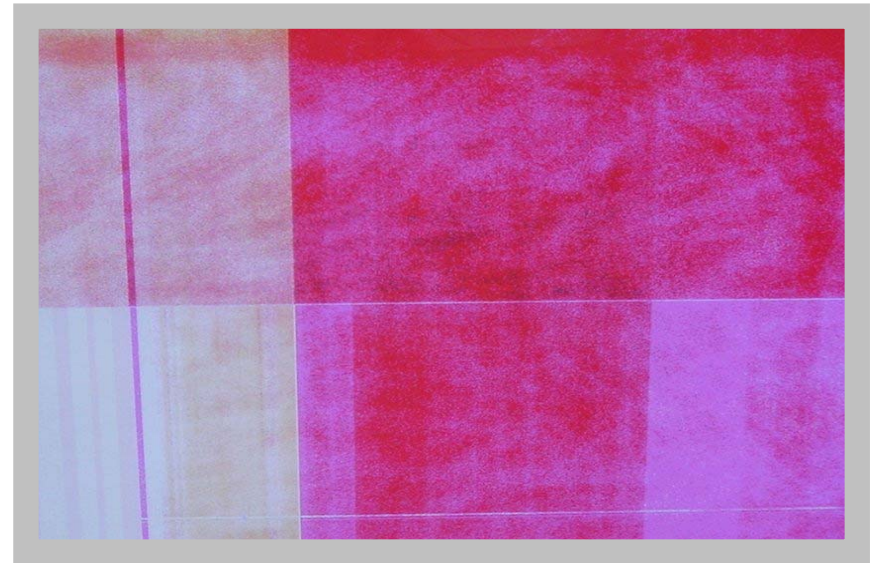
- **Applicable Model** : All
- **Main Check** : Check the Vs, Vset-up, Y-B/D
- **Symptom** : No picture with Mal discharge
- **Remedy** : Replace the Y-B/D

Flicker

Check Y-B/D



Flicker

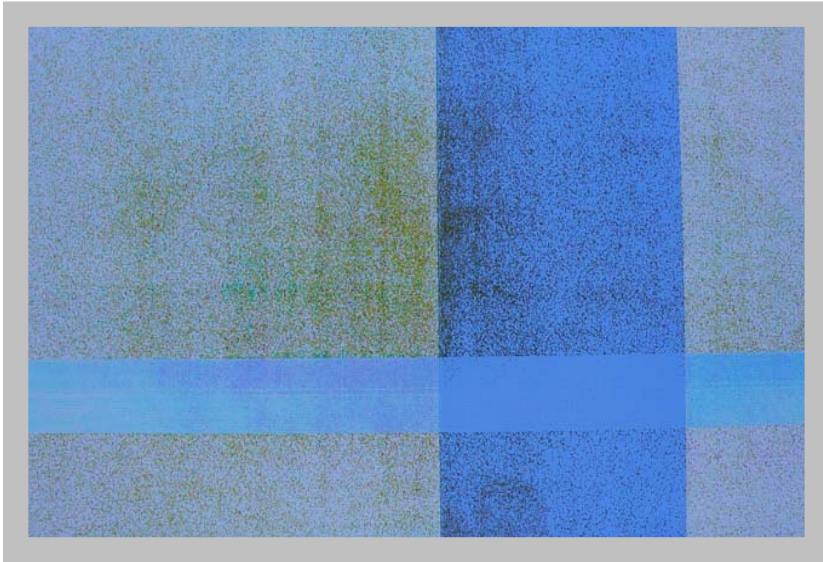


Flicker

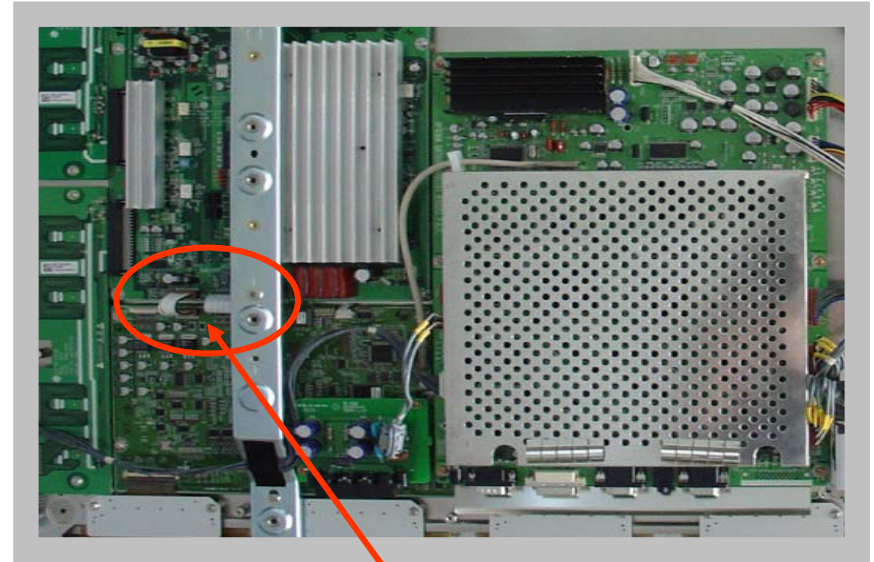
- **Applicable Model** : All
- **Main Check** : Check the Vs, Vset-up, Y-B/D
- **Symptom** : No picture with Mal discharge
- **Remedy** : Replace the Y-B/D

Flicker

Check Y-B/D



Flicker

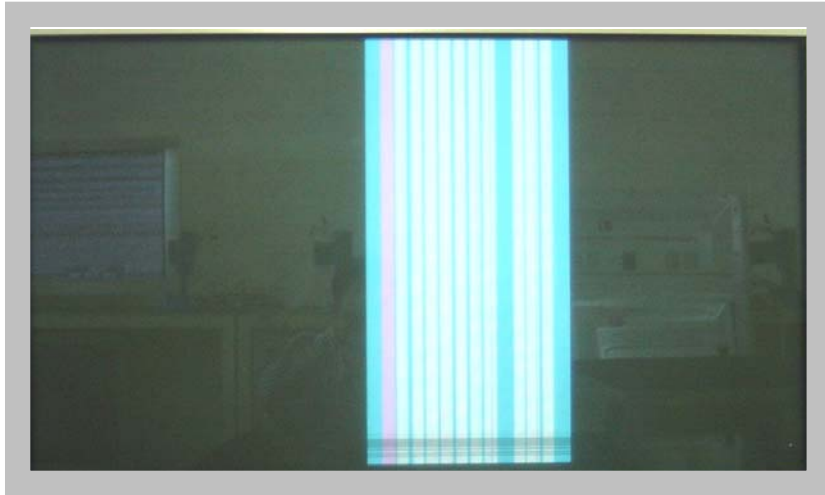


Check 15V LINE B+ Voltage

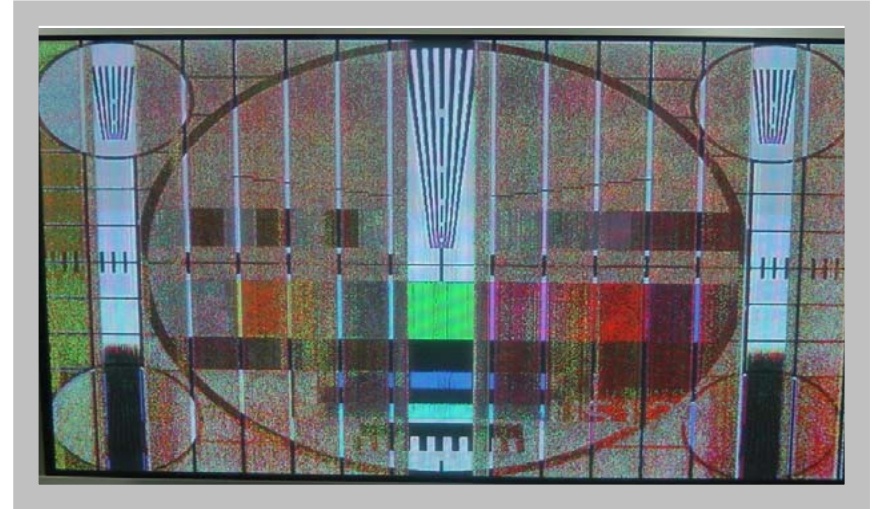
- **Applicable Model** : M(X)-42PZ90
- **Main Check** : Check the 15V Line falls to (8~9V) supplied to the module control B/D
- **Symptom** : No picture with Mal discharge
- **Remedy** : Replace the Y-B/D & Z-B/D

Curtain Bar

Check Y-DRV

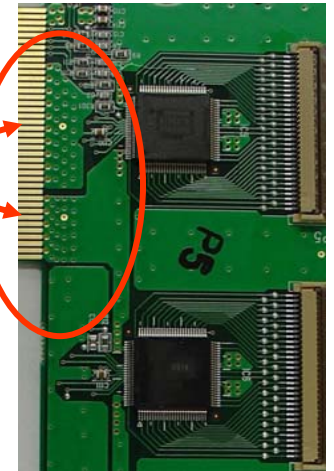


No signal status



With signal status

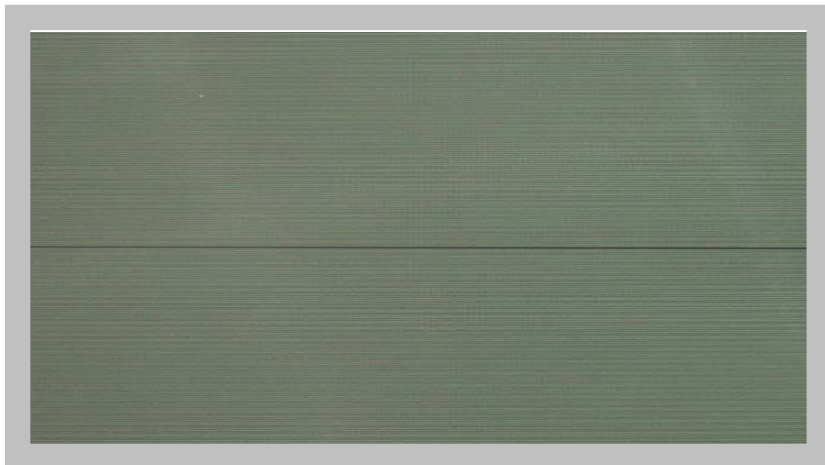
- **Applicable Model** : All
- **Main Check** : Check the Diode of SUS-UP port and SUS-DOWN Port
- **Symptom** : Curtain Bar's position may move depended on NO SIGNAL OSD
- **Remedy** : Replace the Y-B/D



Horizontal Bar

Check

Y-DRV

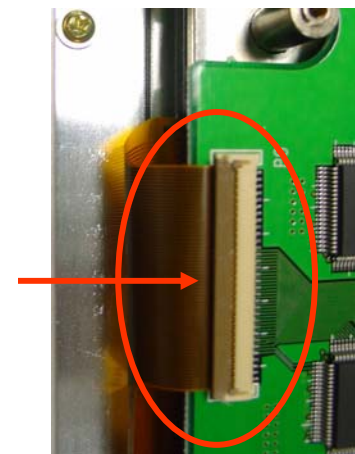


Horizontal Bar



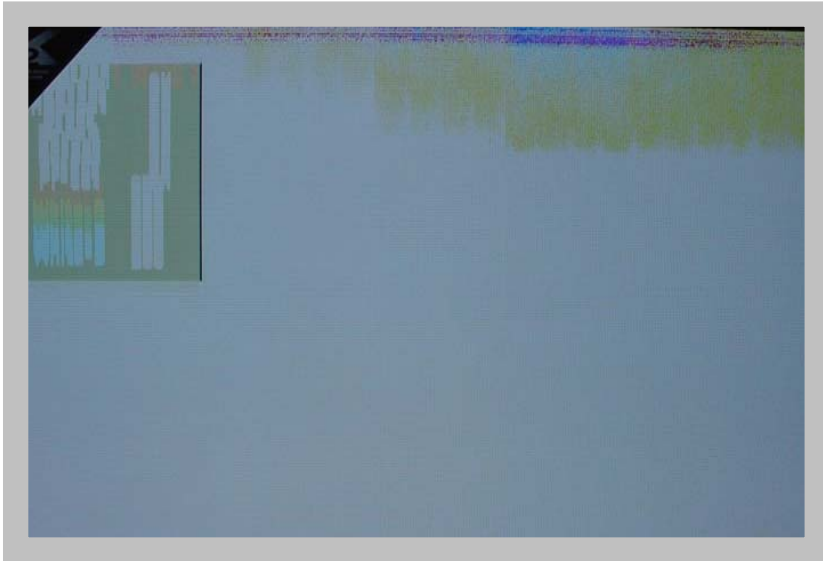
With signal

- **Applicable Model** : All
- **Main Check** : Check the Y-B/D or connector status for module
- **Symptom** : Horizontal Bar
- **Remedy** : Replace the Y-B/D or Dust of connection film between Y-B/D and Module

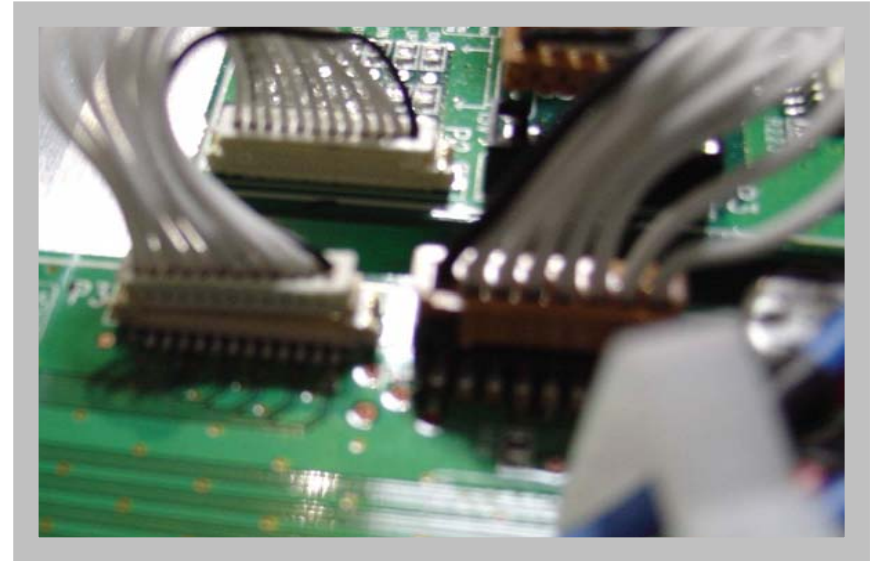


Dark Screen & Mal Discharge

Check Z-B/D



Dark Screen and Mal discharge



Poor connection of Connector Z-B/D and X-B/D

- **Applicable Model** : **M(X)-42PZ90**
- **Main Check** : **Check the Cable or B+ port of Z-B/D**
- **Symptom** : **Dark Screen and Heavy Noise**
- **Remedy** : **Check the Z-B/D and Cable**

Dark Screen & Mal Discharge



Dark Screen and Mal discharge



Dark Screen and Mal discharge

- **Applicable Model** : All
- **Main Check** : Check the Cable or B+ port of Z-B/D
- **Symptom** : Dark Screen and Heavy Noise
- **Remedy** : Check the Z-B/D and Cable