SAMSUNG ELECTRONICS

SERVICE BULLETIN

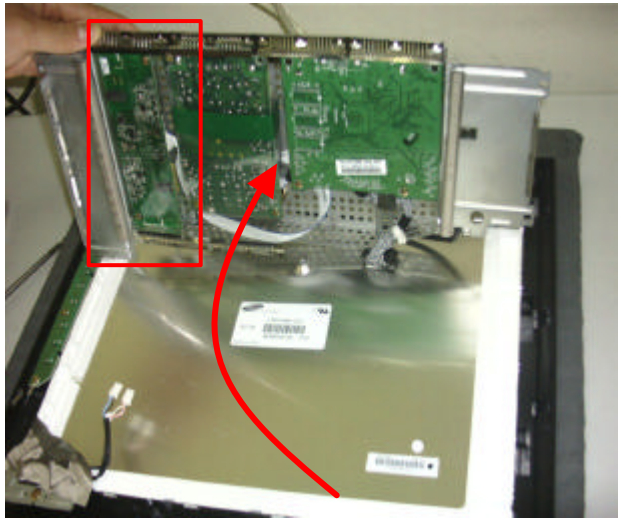
Product :	:LCD monitor	**Bulletin No. :**	02-C/M-E0069
Model :	GH17L,GH17E,GH17V~ (exclude GH17P)	**Bulletin Date :**	06-May-02
		ECN Date :	06-May-02

SUBJECT : **Before service to prevent Inverter failure problem.**

Background : GH17 LCD monitor used BN44-00064A inverter from Mar.2002 to April.2002.
But BN44-00064A inverter can be fail because of high voltage discharge to trans coil.
Symptom of failure : Trans coil burnt, smoke => dim display or No video.
So, Samsung stop using 64A inverter from May.2002.
Other inverters used at GH17 model such as BN44-00041A,BN44-00060A,BN44-00029A have no problem.

Model name : **S/M171S,171B,170S,760TFT,S/T71S**

Solution **Do Automatic upgrade service for all returned GH17 monitor to service center.**
At first, check serial number and check inverter part number after opening back cover .
If inverter number is BN44-00064A(blue color), replace with BN44-00041A inverter.
* 64A inverter have 3 version (Blue,Yellow,Green tape around trans mounted on inverter board)
- Blue tape : Replace.
- Yellow or Green tape : No need to replace (improved version)



Check inverter whether its part number is

BN44-00064A or not (-41A,29A,60A)

In case of 64A , then check the tape color

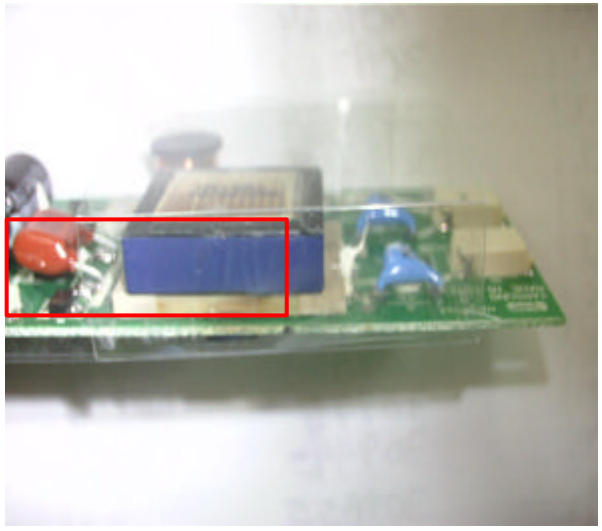
which around trans.

-. Blue color => Replace with service inverter

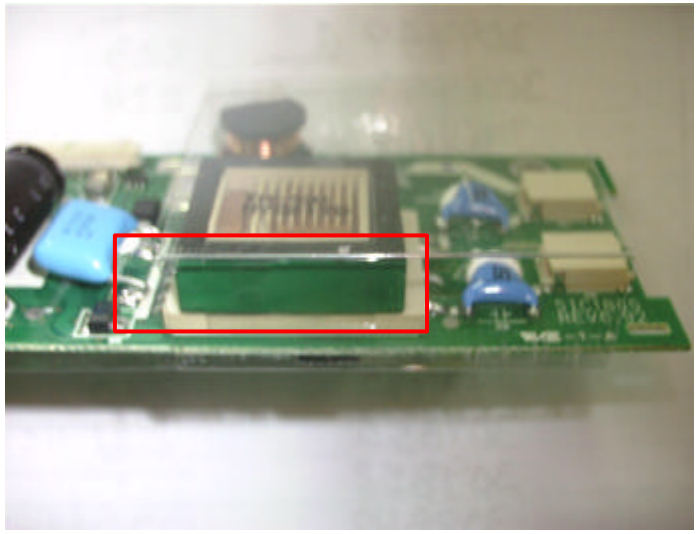
(BN44-00041A)

-. Yellow or Green Color => Do not need to replace.

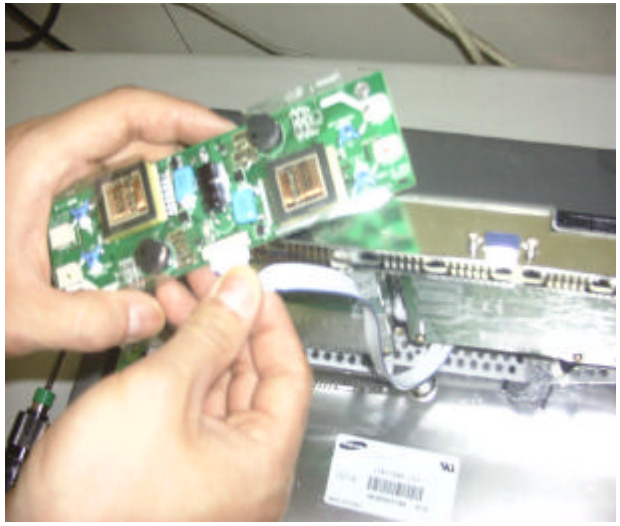
(Improved version)



BN44-00064A INVERTER (OLD VERSION)
Blue tape => Replace with new inverter



BN44-00064A INVERTER (IMPROVED VERSION)
Yellow or geen tape => Do not need to replace.



Replace inverter carefully.

BN44-00041A (4 Trans)

BN44-00064A (2 Trans)

Inspection process

- **Connect signal generator or PC and check display quality.**
- **Before reassembl, check all connector to prevent poor connection.**
- **Check function key operation after replacement.**
- **Connect signal generator or PC and check display quality.**
- **When taping work carefully cut the tape (sharp).**
- **Be carefull when removing,reconnecting connectors (fully insert until locking sound)**
- **When inputing monitor to Box, match serial number (set and Box.)**

6.Adjustment Tool Usage

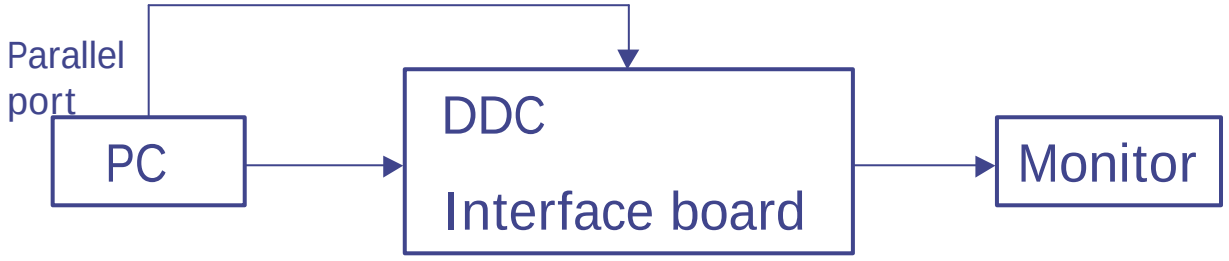
- Service Jig
- Auto Gain
- DDC Input
- MCU Program Update(GG15 Only)

Service Jig Usage(1)

- Total Monitor On-Time
- Number of times On/Off
- LCD Panel On-Time
- LCD Panel Number of Replace
- Upper Lamp On-Time
- Upper Lamp Number of Replace
- Lower Lamp On-Time
- Lower Lamp Number of Replace

Service Jig Usage(2)

1. Set DDC interface system

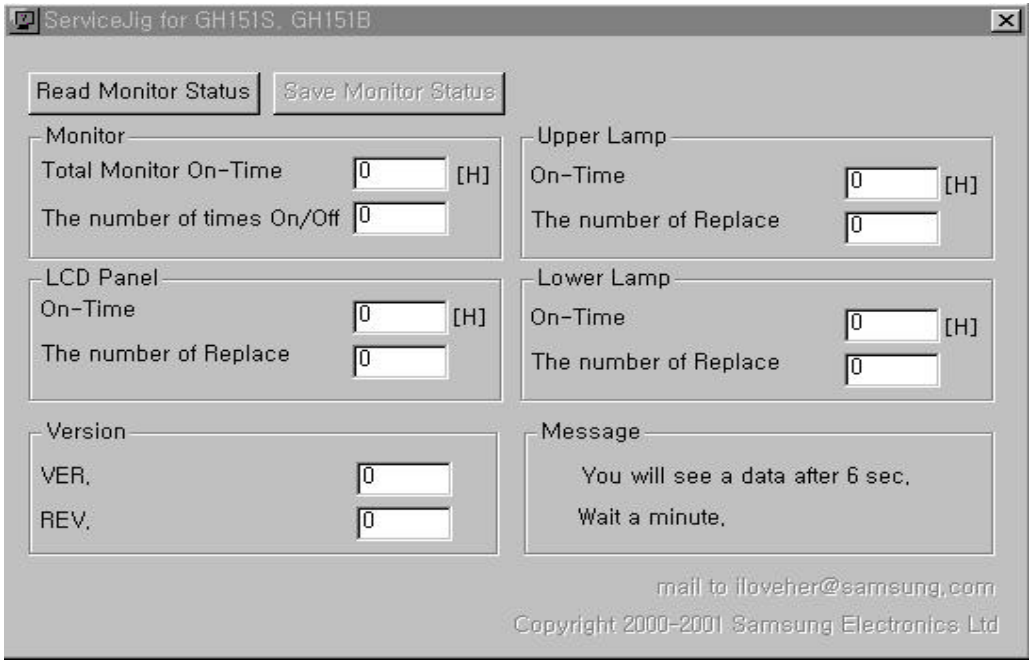


2. Execute

   Service Jig Program

3. Press

   Read Monitor Status



Auto Gain

GH15

1. Mode : 720*400 Pattern: 16Gray
2. Press Menu Key & select ‘language’
3. Select ‘English’
4. Press and hold Exit Key during 5 seconds

GH17

1. Mode : 720*400 Pattern: 16Gray
2. Press and hold Exit, +, and – Key during 5 seconds

DDC input

1. Set DDC interface system

2. Execute

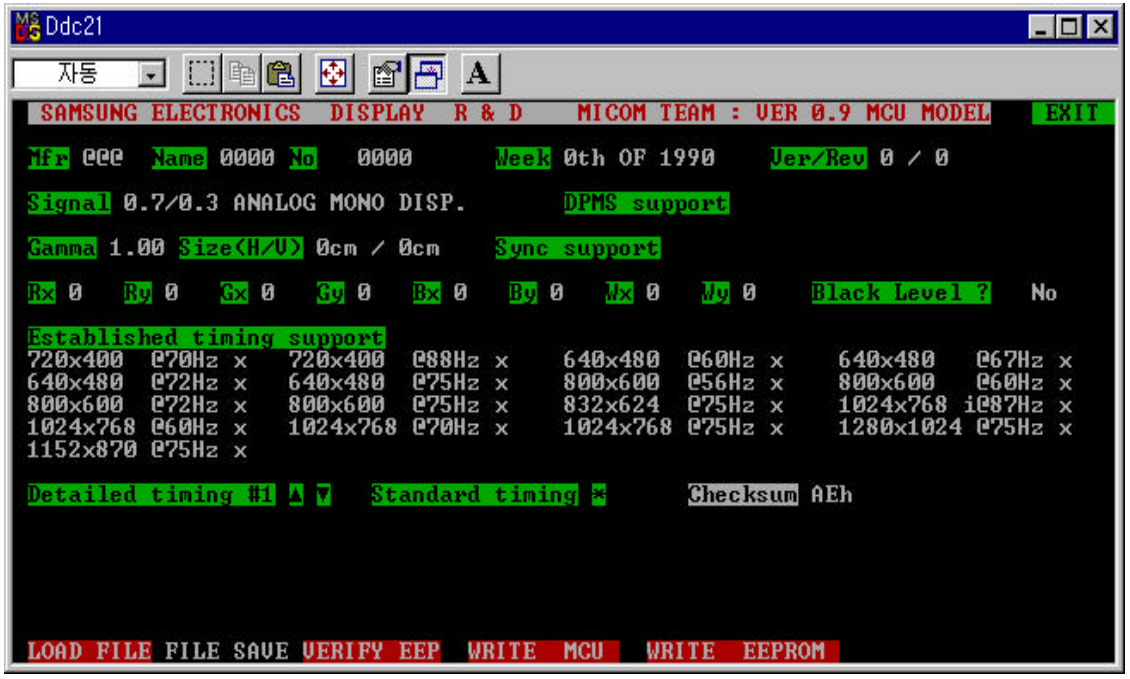
   DDC program

3. Load DDC file

   (LOAD FILE)

4. Write DDC file

   (WRITE EEPROM)



MCU Program Update (GG15 only)

1. Set DDC interface system

2. Make Batch File (63writer 100 a file_name)

- 63writer : program
- 100 : pulse delay
- a : operate mode
  (Wr+Prog+ Verify)
- file_name : hex file
  to be downloaded

3. Execute
   the Batch File