



# SERVICE BULLETIN

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

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

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**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.**

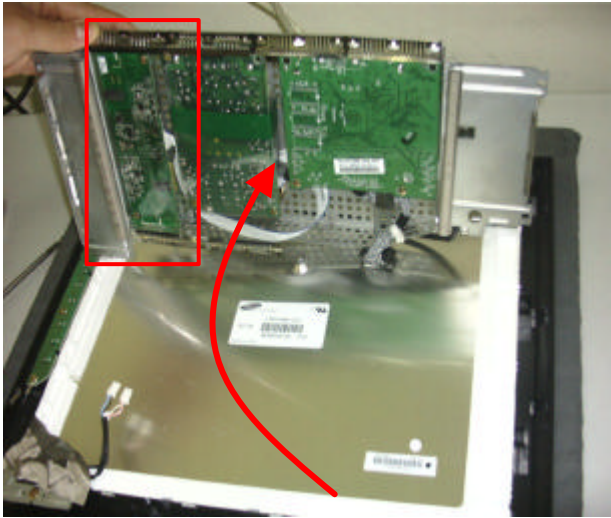
At first, check serial number and check inverter part number after opening back cover .

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.

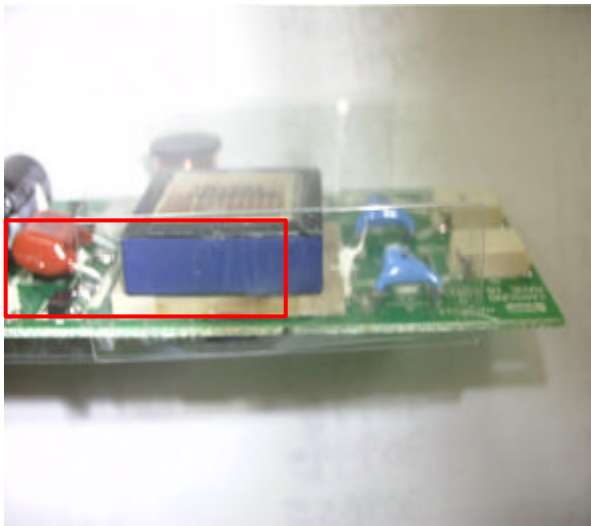
- Yellow or Green tape : No need to replace (improved version)



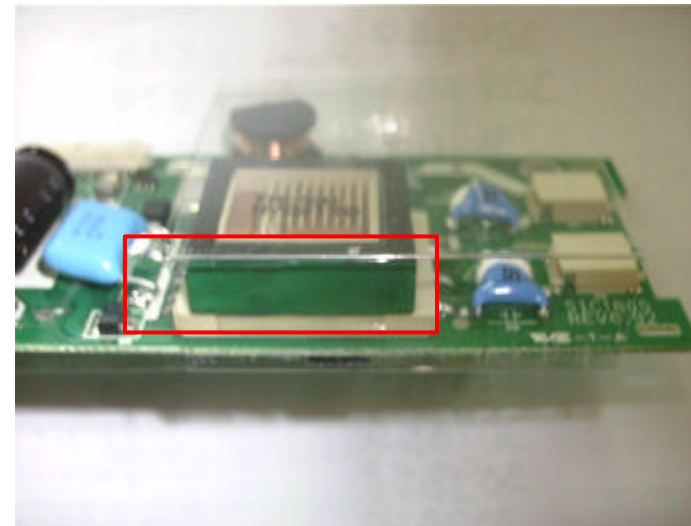
Check inverter whether its part number is BN44-00064A or not (-41A,29A,60A)

In case of 64A , then check the tape color which around trans.

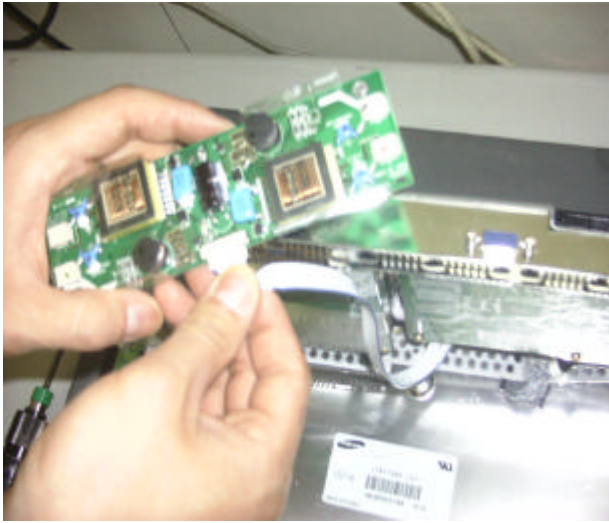
- . Blue color => Replace with service inverter (BN44-00041A)
- . Yellow or Green Color => Do not need to replace. (Improved version)



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



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



**Replace inverter carefully.**

#### **Inspection process**

- Connect signal generator or PC and check display quality.
- Before reassembly, check all connectors 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 careful when removing, reconnecting connectors (fully insert until locking sound)
- When inputting monitor to Box, match serial number (set and Box.)



**BN44-00041A  
(4 Trans)**

**BN44-00064A  
(2 Trans)**

# 6.Adjustment Tool Usage

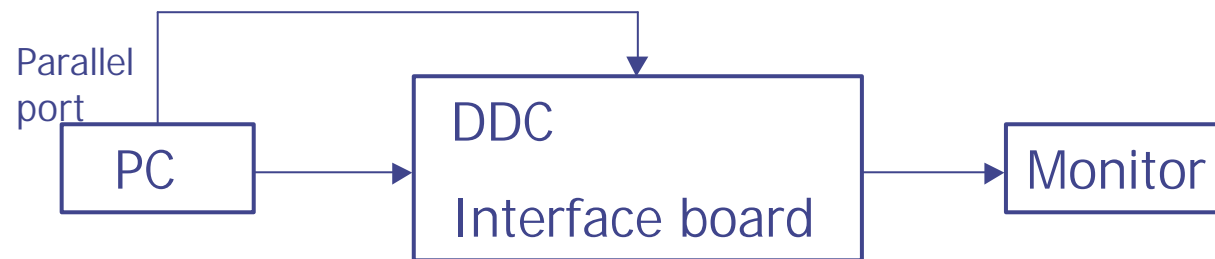
- ◆ Service Jig
- ◆ Auto Gain
- ◆ DDC Input
- ◆ MCU Program Update(GG15 Only)

# 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

The screenshot shows the 'ServiceJig for GH151S, GH151B' software window. It features two buttons at the top: 'Read Monitor Status' and 'Save Monitor Status'. The interface is divided into several sections for monitoring and configuration:

- Monitor:** Includes 'Total Monitor On-Time' (0 [H]) and 'The number of times On/Off' (0).
- Upper Lamp:** Includes 'On-Time' (0 [H]) and 'The number of Replace' (0).
- LCD Panel:** Includes 'On-Time' (0 [H]) and 'The number of Replace' (0).
- Lower Lamp:** Includes 'On-Time' (0 [H]) and 'The number of Replace' (0).
- Version:** Includes 'VER.' (0) and 'REV.' (0).
- Message:** Displays the text: 'You will see a data after 5 sec. Wait a minute.'

At the bottom right, there is contact information: 'mail to iloveher@samsung.com' and 'Copyright 2000-2001 Samsung Electronics Ltd'.

# 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)

```
MS-DOS Ddc21
자동
SAMSUNG ELECTRONICS DISPLAY R & D MICOM TEAM : UER 0.9 MCU MODEL EXIT
Mfr eee Name 0000 No 0000 Week 0th OF 1990 Ver/Rev 0 / 0
Signal 0.7/0.3 ANALOG MONO DISP. DPMS support
Gamma 1.00 Size(H/U) 0cm / 0cm Sync support
Rx 0 Ry 0 Gx 0 Gy 0 Bx 0 By 0 Wx 0 Wy 0 Black Level ? No
Established timing support
720x400 070Hz x 720x400 088Hz x 640x480 060Hz x 640x480 067Hz x
640x480 072Hz x 640x480 075Hz x 800x600 056Hz x 800x600 060Hz x
800x600 072Hz x 800x600 075Hz x 832x624 075Hz x 1024x768 1087Hz x
1024x768 060Hz x 1024x768 070Hz x 1024x768 075Hz x 1280x1024 075Hz x
1152x870 075Hz x
Detailed timing #1 A Standard timing Standard timing Checksum AEh
LOAD FILE FILE SAVE VERIFY EEP WRITE MCU 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

```
관리 - 63
자동
*****
/*      Novatek Microelectronics Corp.      */
/*      2F, No. 3, Innovation Road 1, Science-Based Industrial Park,      */
/*      HsinChu 300, Taiwan, R.O.C.      */
/*      TEL:886-3-567-0889      FAX:886-3-577-0132      */
/*      All Rights Reserved      */
*****
/* Monitor Micontroller NT68F63 ISP Programmer V1.1d (By Printer Port)*/
/* c:\w>63WRITER time mode filename      */
/* time : Writer scl/sda pulse delay (1 ~ 32767)      */
/* mode : Operate Mode ==> A : Auto (Erase+Program+Uerify)      */
/*                                     P : Program (Erase+Program)      */
/*                                     U : Uerify      */
/* filename : Intel Hex format file      */
/* example: C:\w>63WRITER 100 A TEST.HEX      */
/* Note: In Windows NT & 2000, 63WRITER can't work normally.      */
*****
NT68F63 LINK ==> FAIL
A:w>
A:w>
A:w>
```