



## Service data bulletin

Instrument: GDS101

Date: 29.05.2008

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### SUBJECT:TROUBLE SHOOTING GUIDE NO LIGHT ON SCREEN

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This trouble shooting guide may be used if some picture is visible on screen but no backlight makes it impossible to see.

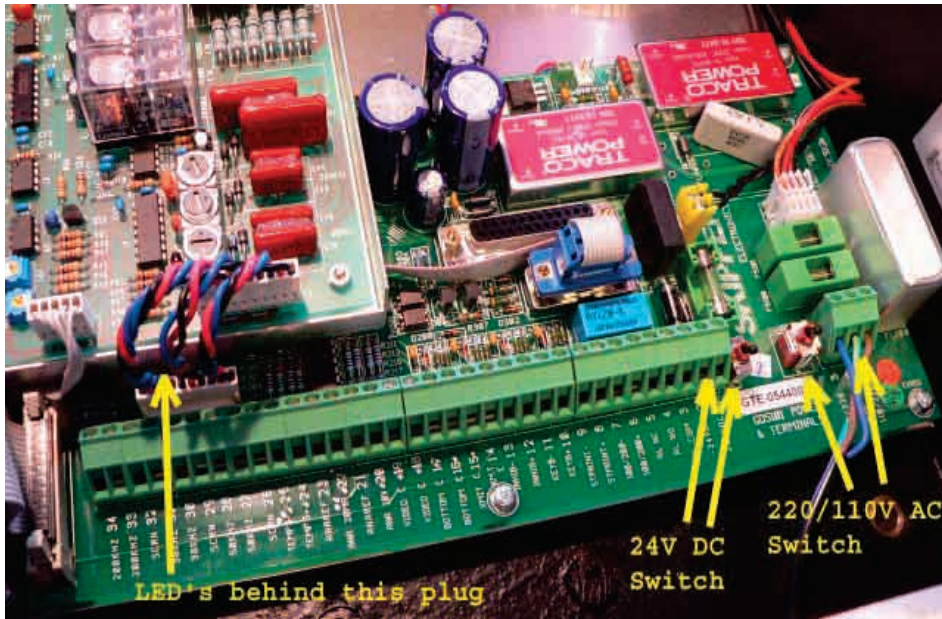
Before proceeding: Please make shure that this problem is not related to brightness being set to 0  
Refer to Data Bulletin "SDB\_Gen\_01 Screen dead"

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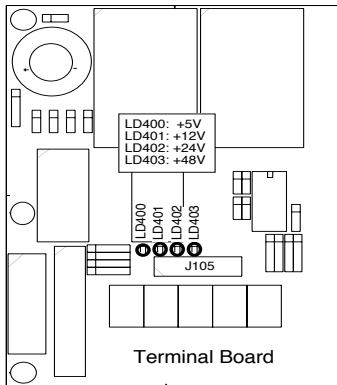
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## Check Power to the backlight.

Check LED402



**If one or more LED's does not light:** Then Terminal board is most probably defective.



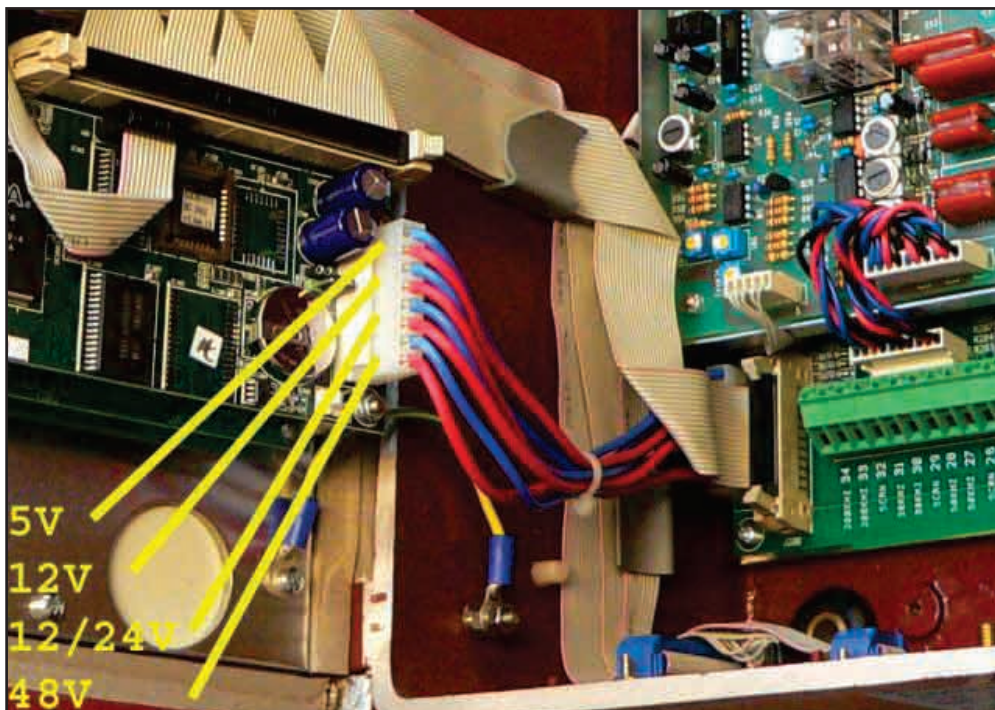
LD400	+5V
LD401	+12V
LD402	+24V to backlight with monochrome screen +12V to backlight with colour screen.
LD403	+48V

## Measure 12/24V from Terminal board to I/O board

The 12/24V from terminal board is the power to backlight inverter.

Monochrome screens have 24V

Colour screens have 12V



The 12/24V is fed through the I/O board to the keyboard.

### Keyboard version B. Monochrome screens

24v is used:

To inverter producing high voltage (1500V AC) to screen. It is difficult to measure the high voltage. 24V (with full dimmer) may be measured between the "VIN" pin and chassis.

To contrast.(J204) -18 to -21V between chassis and pin.

If all voltages are OK then inverter board or backlight is defective.

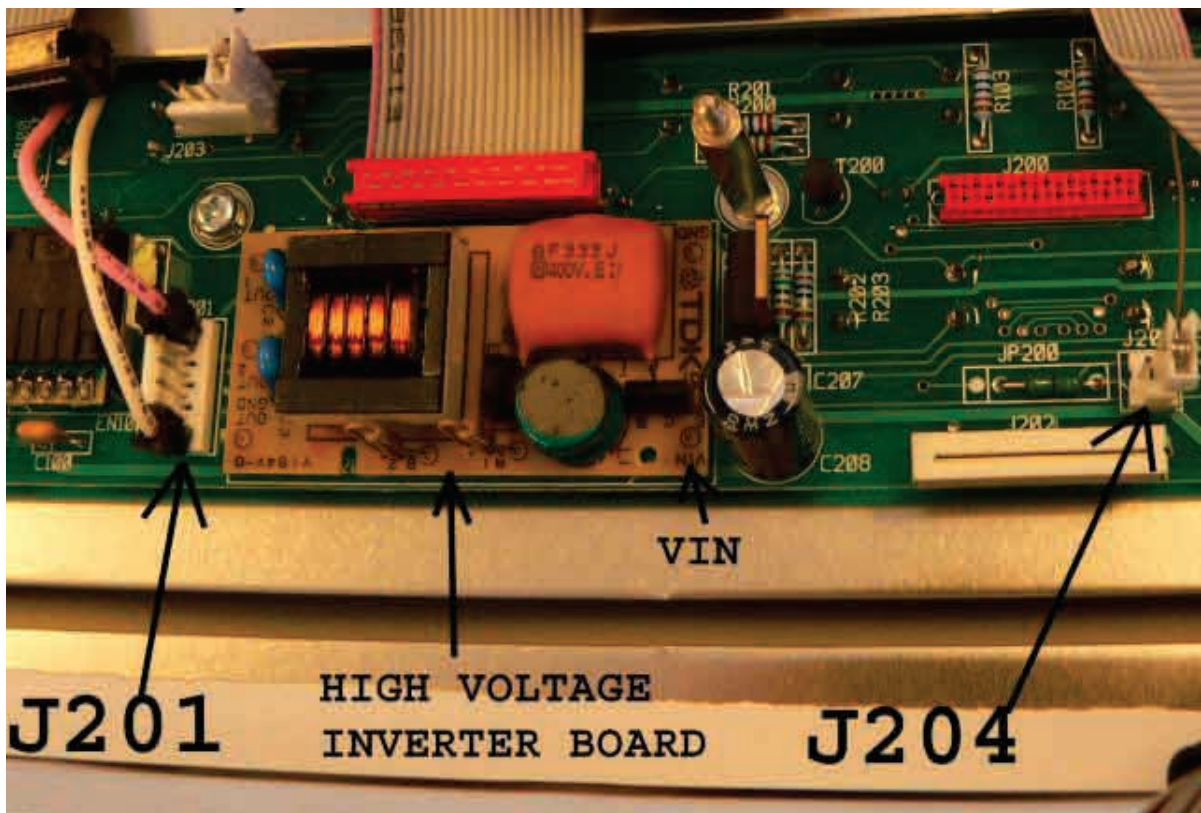
The backlight inverter is a part of Keyboard verB. Part number PK-G001.

The backlight is not available for mono screens. New screen required.

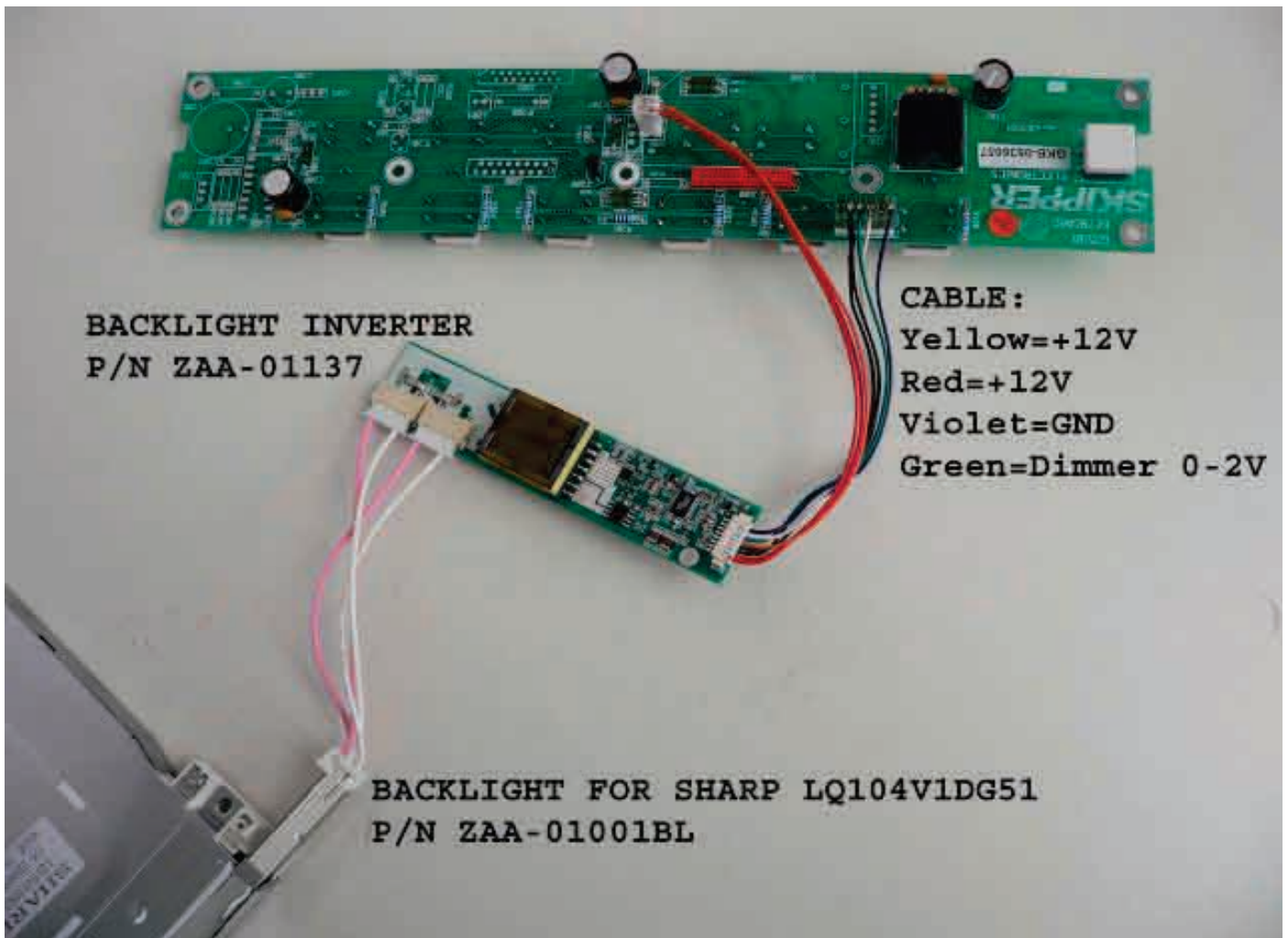
See Data bulletin "SDBGDS101\_02 Guide to change monochrome screen".

SHARP: Part number KY-G001.

HITACHI: Part number KY-G002.



**Keyboard version D. Colour screen**



BACKLIGHT INVERTER  
P/N ZAA-01137

CABLE:  
Yellow=+12V  
Red=+12V  
Violet=GND  
Green=Dimmer 0-2V

BACKLIGHT FOR SHARP LQ104V1DG51  
P/N ZAA-01001BL