

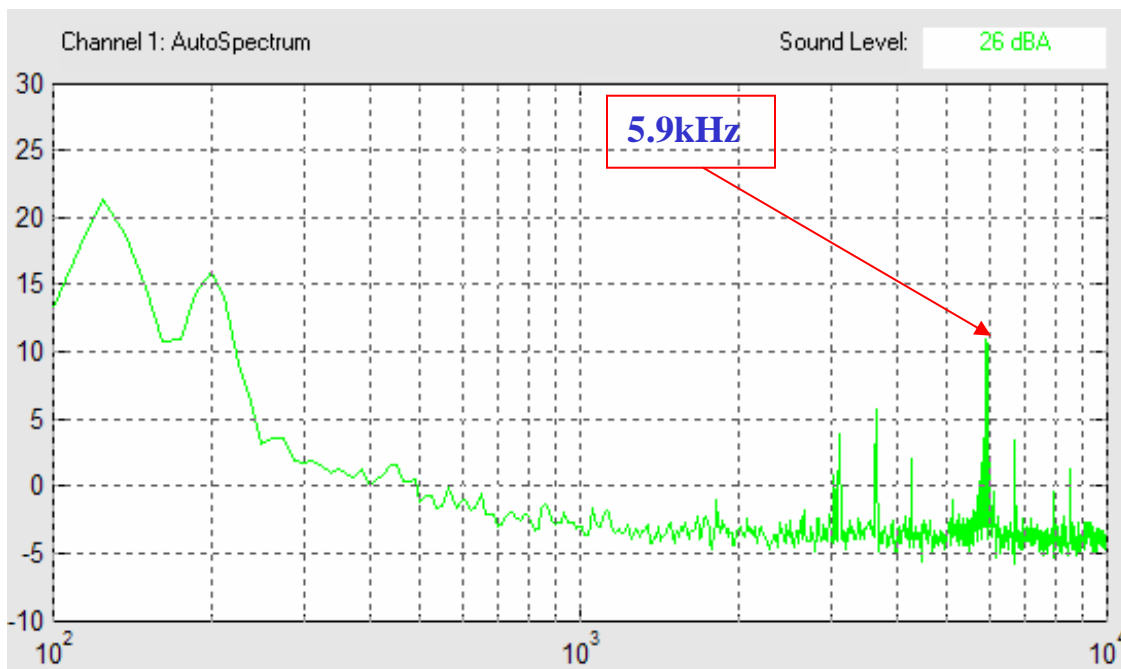


FIELD SERVICE BULLETIN

FSB Number: LVCCFSB2006-004 (Rev A)
Authors: Darwin Garcia
Date: January 10, 2006
Total No. of Pages: 2
Subject: **V3 Display Audio Buzz in STBY (Informational)**
Model Affected: **V3, V3c**
Level of Repair: 1

Problem

Service is aware that some customers have raised concerns about “audio buzz” heard emanating from the display. This audio buzz is directly related to the line inversion frequency of the display glass causing it to vibrate, which uses a 2.3MHz pixel clock that is audible at 5.9kHz in standby mode.



There are two factors that make this symptom happen:

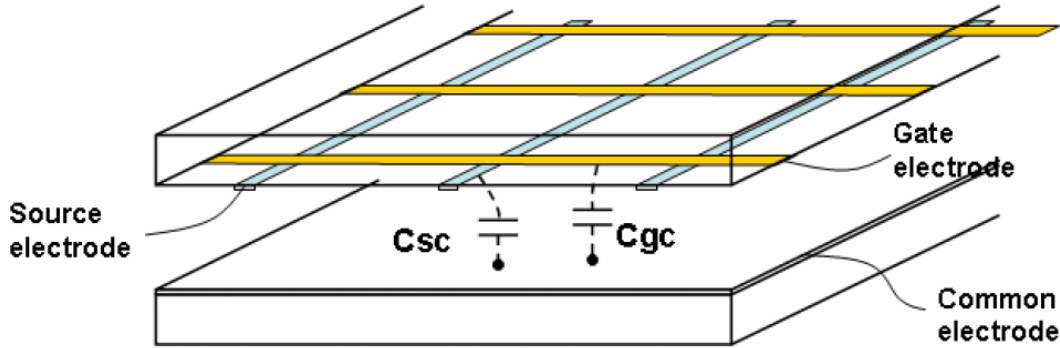
1. Gate Electrode.
2. Source Electrode.

In the current design when the two electrodes are at high peak level of Freq, it will cause the glass panel start to vibrate therefore becoming like a speaker and emanating the high pitched noise, which at the display module level is acceptable.



2. Buzz noise issue

→ LCD panel is vibrating by COM driving voltage because of its construction, and becomes like a speaker.



Vibration is caused by the force that common electrode and Gate/Source attract together.

However due to the thickness constrain of the flip assembly when the display module is assembled, the glass hits the hard surface of the inner parts and in some cases amplifies the high pitched noise.

Solution

Currently there is NOT a solution or design changes available for the display module or for the flip assembly.

Note: The alternative is switching the display module to refresh the main display from line inversion to frame inversion mode will eliminates the high pitched noise but unfortunately, it will deteriorated the display performance introducing major issues such as flickering, grey background, etc. **This will not be pursued.**

Field Service Action

Customer Returns:

N/A

Note: Replacement of the display module or the flip assembly is **NOT** recommended.

Also see LVCCFSB2005-302 and LVCCFSB2004-229

Call Center Action:

Customer Education

Service Inventory

N/A

Global Codes

M Claims:

Customer Complaint Codes: N/A

Problem Found Code: N/A

Repair Code: N/A