



Display

Video Products Technical Bulletin 30-2004-002

DATE: **January 12, 2004**SUBJECT: **VERTICAL LINES WAVE HORIZONTALLY IN UPPER PICTURE**

MODEL: ***BVM-D14H1A***
BVM-D14H1E
BVM-D14H1U
BVM-D14H5A
BVM-D14H5E
BVM-D14H5U

SERIAL NO:

BVM-D14H1A 2,000,001-2,000,155
BVM-D14H1E 2,000,001-2,000,262
 BVM-D14H1U 2,000,001-2,000,307
BVM-D14H5A 2,000,001-2,000,253
BVM-D14H5E 2,000,001-2,000,261
 BVM-D14H5U 2,000,001-2,001,147

Italicized information in green applies to customers outside the United States.

DESCRIPTION

When a 480/60i or 575/50i signal is input in UNDER SCAN mode, vertical lines may wave horizontally in the upper part of the picture.

PARTS REQUIRED

Part No.	Description	Qty.
1-216-077-91	Res, Chip, 15 kΩ	1

ORDERING INFORMATION

To order upgrades or for regional service center and parts ordering information, refer to the following document, which lists all contact telephone numbers:

Technical Bulletin 001999000

MODIFICATION PROCEDURE

Perform steps 1 through 3 on the following units only. The three steps are already implemented on other units.

Model	Serial No
BVM-D14H1A	2,000,001-2,000,155
BVM-D14H1E	2,000,001-2,000,255
BVM-D14H1U	2,000,001-2,000,293
BVM-D14H5A	2,000,001-2,000,253
BVM-D14H5E	2,000,001-2,000,236
BVM-D14H5U	2,000,001-2,001,007

1. On the G board, replace R508 (680Ω, side B, zone C-2) with a new 330Ω resistor (1-216-639-11 or 1-211-995-11).
2. On the G board, replace C511 (0.01 μF, side B, zone C-2) with a new 0.1 μF capacitor (1-107-725-11).
3. Adjust H KEY BALANCE as follows:
 - a. Choose MAINTENANCE > DEFLECTION > H KEY BALANCE.
 - b. Adjust H KEY BALANCE within a range of 32 ±4 in NORMAL/UNDER SCAN and 4:3/16:9 modes to eliminate:
 - Picture distortion
 - Curved vertical lines in the upper part of the picture

DPMO03-016R3

G Board (Suffix -11 and -12 Only)

- Secure the AFC return signal wire (gray) soldered between L2504 (HLC) and IC515 (PWMIC) so that the wire does not contain slack and is kept away from L2504. (See Figure 1.)

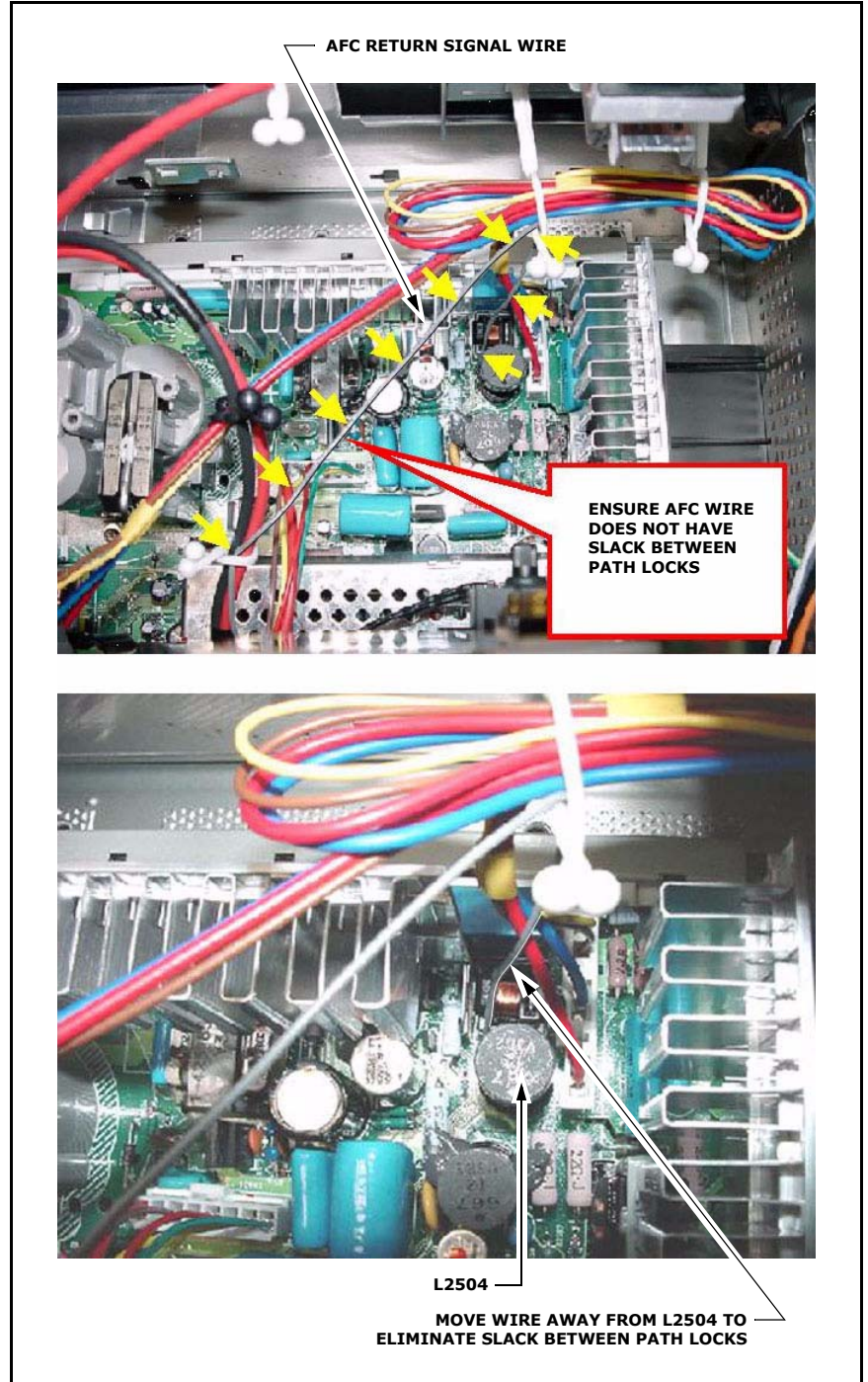


Figure 1

- If vertical lines still appear in the upper part of the picture, replace the G board with a new suffix -13 G board.

G Board (Suffix -13 Only)

6. Solder a 5 mm jumper to JR501 (near C652) and a 5 mm jumper to JR502 (near L2504) as shown in Figure 2.

NOTE: A gray AFC wire is not used in suffix -13 G boards. A conductive trace is used instead.

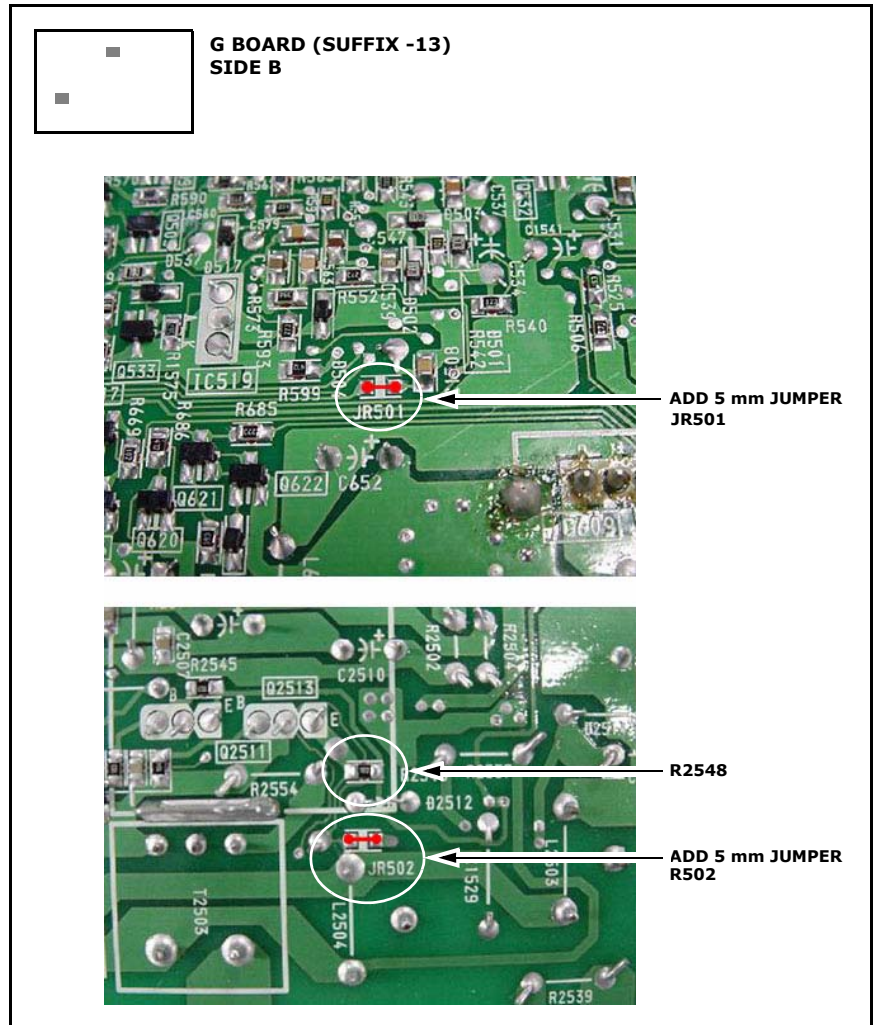


Figure 2

G Board (All)

7. Replace R2548 (10 k Ω side B, zone J-5) located near L2504 with a new 15 k Ω resistor.

DEFLECTION ADJUSTMENT

1. Readjust deflection (H SIZE/H KEY/H PIN).
2. Confirm that vertical lines do not wave horizontally in the upper part of the picture in:
NORMAL/UNDER SCAN
4:3/16:9

NOTE: You do not need to readjust other signal formats (such as 1080/60i, 720/60p).