



Display

# Broadcast Products Technical Bulletin 20-2005-002

DATE: January 10, 2005

SUBJECT: CLOSED CAPTION CHARACTERS JITTER

MODEL: **BVM-14E1U**  
**BVM-14E5U**  
**BVM-14F1U**  
**BVM-14F5U**  
*BVM-14G1A*  
*BVM-14G1E*  
**BVM-14G1U**  
*BVM-14G5A*  
*BVM-14G5E*  
**BVM-14G5U**  
**BVM-20E1U**  
**BVM-20F1U**  
*BVM-20G1A*  
*BVM-20G1E*  
**BVM-20G1U**

SERIAL NO:

BVM-14E1U Up to 2,100,016  
 BVM-14E5U Up to 2,100,260  
 BVM-14F1U Up to 2,110,180  
 BVM-14F5U Up to 2,101,328  
*BVM-14G1A Up to 2,000,011*  
*BVM-14G1E Up to 2,001,160*  
 BVM-14G1U Up to 2,000,621  
*BVM-14G5A Up to 2,000,037*  
*BVM-14G5E Up to 2,001,412*  
 BVM-14G5U Up to 2,000,982  
 BVM-20E1U Up to 2,100,487  
 BVM-20F1U Up to 2,110,760  
*BVM-20G1A Up to 2,010,008*  
*BVM-20G1E Up to 2,010,498*  
 BVM-20G1U Up to 2,010,314

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

DPMO04-034

## DESCRIPTION

When a closed caption signal is displayed, characters may jitter. This symptom occurs only when the following BC board is used:

### BC Board

A-1135-936-A, or

A-1135-920-A

**NOTE:** A closed caption signal is valid only for NTSC or D1 (525-line).

## PARTS REQUIRED

Part No.	Description	Qty.
1-216-057-00	Res, Carbon, Chip, 2.2 kΩ	1
1-216-055-00	Res, Carbon, Chip, 1.8 kΩ	1

Also Required:

- 115 mm jumper, AWG 32 or equivalent
- Sony RTV SC65 or equivalent

## 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

### BC Board (A-1135-936-1 or A-1135-920-A)

(See Figure 1.)

1. Solder a 1.8 kΩ resistor in parallel with R106 (side B).
2. Solder a 2.2 kΩ resistor in parallel with R153 (side A).
3. Cut the thru-hole near R106 to break the connection between sides A and B of the board via the thru-hole.
4. Cut the trace near IC111.
5. Solder a 115 mm jumper between IC63 pin 14 and the thru-hole near IC111.
6. Affix the jumper to the board with RTV.

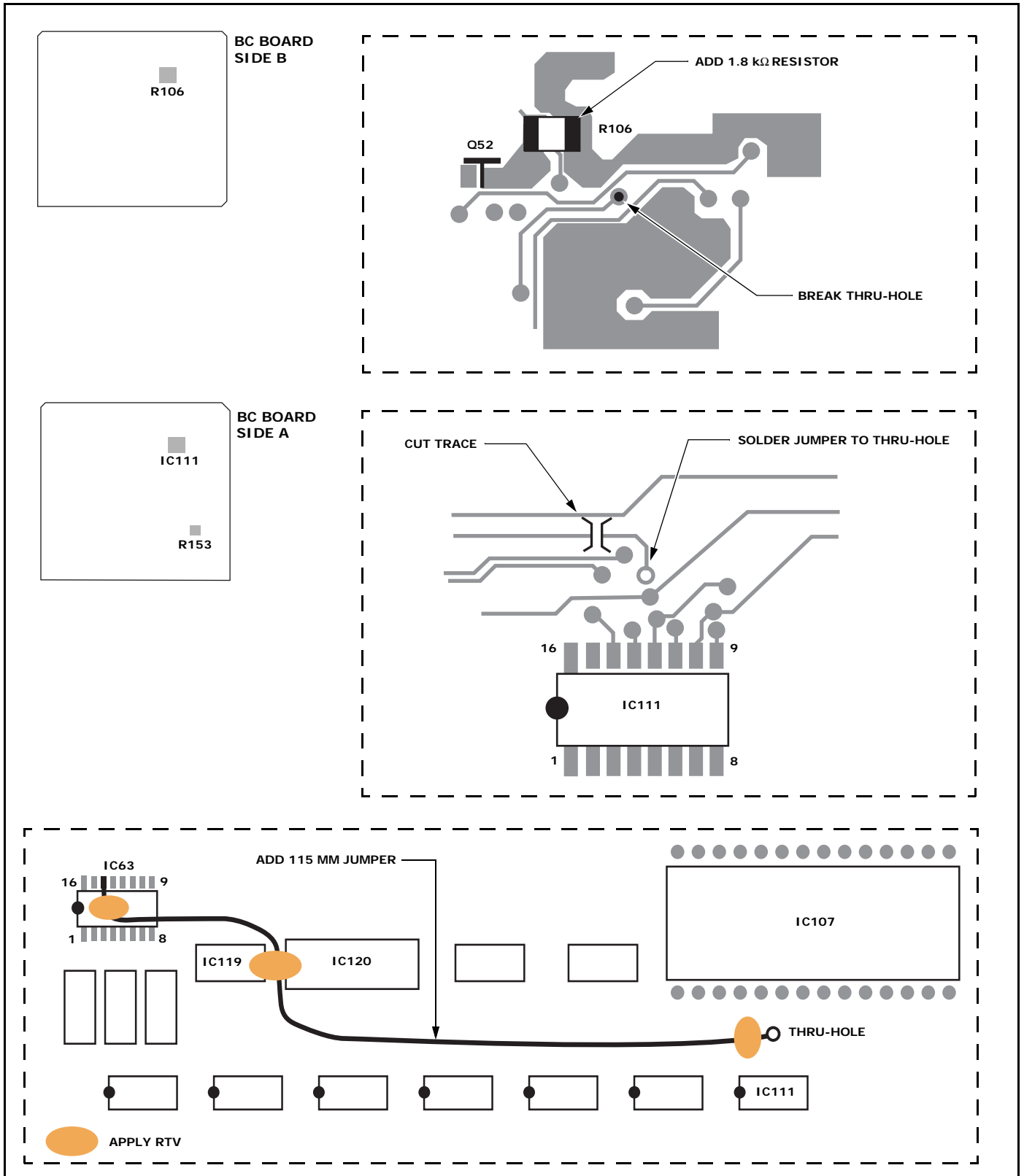


Figure 1

**CONFIRMATION**

Display a closed caption signal, and confirm that jitter does not occur.