



Display

# Broadcast Products Technical Bulletin 20-2006-191

DATE: **October 9, 2006**SUBJECT: **CRT NECK IS CRACKED**

MODEL: **BVM-D20F1A**  
**BVM-D20F1E**  
**BVM-D20F1U**  
**BVM-D24E1WA**  
**BVM-D24E1WE**  
**BVM-D24E1WEK**  
**BVM-D24E1WU**  
**BVM-D32E1WA**  
**BVM-D32E1WE**  
**BVM-D32E1WU**

SERIAL NO:

*BVM-D20F1A Up to 2,010,188*  
*BVM-D20F1E Up to 2,010,259*  
 BVM-D20F1U Up to 2,010,885  
*BVM-D24E1WA 2,000,001–2,000,124*  
*BVM-D24E1WE 2,000,001–2,000,734*  
*BVM-D24E1WEK 2,000,001–2,000,020*  
 BVM-D24E1WU Up to 2,100,135  
*BVM-D32E1WA 2,000,001–2,000,006*  
*BVM-D32E1WE 2,000,001–2,000,087*  
 BVM-D32E1WU Up to 2,100,052

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

**DESCRIPTION**

If the neck of the CRT is cracked, the following parts are also damaged:

D810 on PA board (24" and 32" monitors)  
 D107 on PA board (20" monitors)  
 FBT  
 CRT

If the diode on the PA board is damaged and short circuits due to excessive voltage, the PWM controller can no longer control high voltage output. As a result, voltage increases to levels that eventually damage the CRT and FBT.

**PARTS REQUIRED**

Part No.	Description	Qty.
A-1144-854-A	PA1 Board	1

Also Required:

- Plated jumper, 2 pcs
- Jumper, 3 pcs
- RTV

**ORDERING INFORMATION**

To order parts online, go to: <http://www.sony.com/servicesplus>. For service and parts ordering information, refer to the following document, which lists all contact telephone numbers:

Technical Bulletin 00-1999-000

**MODIFICATION PROCEDURE****PA Board (Side A)**

Remove the following diodes:

Monitor	Diode	Zone
24", 32"	D810	B-4
20"	D107	A-2

**NOTE:** The PWM control FET (Q102) contains an internal diode; therefore, problems will not occur after the diode is removed.

DPMO05-059R

## PA Board (Side B)

### (See Figure 1.)

Add a protection circuit board (PA1 board) to the PA board as follows.

**NOTE:** The PA1 board suppresses an increase in high voltage even when the PWM control FET (Q102) is damaged due to excessive voltage.

1. Apply RTV to the back of the PA1 board, and affix the PA1 board to the PA board.

2. Remove resist from the PA board near R110.

3. Solder plated jumpers between:

<b>PA1 Board</b>	<b>PA Board</b>
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(A) GND . . . . .Area of removed resist

(B) GND . . . . .Thru-hole to right of R104

4. Solder jumpers between:

<b>PA1 Board</b>	<b>PA Board</b>
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(C) +5V . . . . .Emitter of Q501

(D) IN . . . . .Anode of D810 (32", 24") or D107 (20")

(E) OUT . . . . .Collector of Q105

5. Affix the jumpers to the board with RTV.

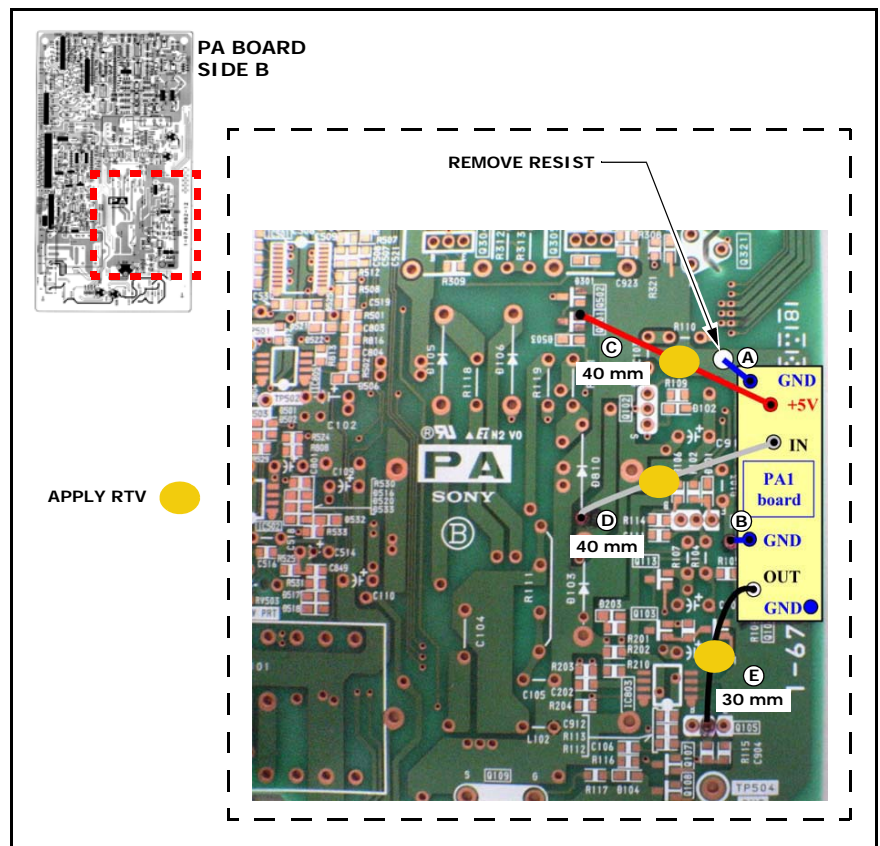


Figure 1