



**Display**

Date: **February 10, 1997**


Subject: **BKM-104 BOARD INSTALLATION**

Model: **PVM-14N1U/14N2U/20N1U/20N2U**

Serial No: **1,000,001–6,002,726 (PVM-14N1U)**  
**1,000,001–6,001,932 (PVM-14N2U)**  
**1,000,001–6,001,212 (PVM-20N1U)**  
**1,000,001–6,000,847 (PVM-20N2U)**

**DESCRIPTION**

After the BKM-104 caption vision board is installed, CAPTION VISION and the OSD may not display. Due to boards and pin assignments being changed, a short circuit may develop between the display timing signal and ground.

 **NOTE:** Only the PVM-14N2U/20N2U versions 1.20 and 1.30 display CAPTION VISION; the PVM-14N1U/20N1U versions 1.20 and 1.30 do *not* display the same.

To prevent this situation, perform the following modification procedure during BKM-104 installation.

**PARTS REQUIRED**

Part No.	Description	Qty.
8-719-901-33	Diode, 1SS133	1
1-216-057-00	Resistor, 2.2kΩ	1
8-752-877-14	IC CXP85220A-032S V1.40 (IC001)	1




**MODIFICATION PROCEDURE**

**A Board**

1. Remove rear cabinet cover.
2. Remove wire soldered to CN053 pin 17 (zone A-4, side B). (See Figure 1.)
3. Remove resist and silk print from around CN053 pin 17. Cut traces.
4. Solder removed wire, from CN053 pin 17 (step 2), to CN053 pin 13 as shown in Figure 1.
5. Remove JW185 and replace with 1SS133 diode. Solder diode, connecting cathode to IC301 side. (See Figure 2.)
6. Replace R318 (10kΩ) with 2.2kΩ resistor.
7. Solder 250mm wire jumper between the 1SS133 cathode and CN053 pin 17.

**NOTE:** Route jumper along board edge.

8. In the PVM-14N1U/20N1U, verify IC001 is version 1.40. If IC is versions 1.20 or 1.30, replace former IC with new part. 
9. Remove S board and insert the BKM-104 board.
10. Turn power on and enter service mode.
11. Double the value which is preset in "No.15 RGB CONT".

**NOTE:** Value is shown in hexadecimal.

**CONFIRMATION**

1. Confirm that CAPTION VISION displays properly.
2. When inputting RGB, confirm that white balance is the same as before modification.
3. **NOTE:** If IC301 operating point changes, RGB output balance may change. Readjust white balance, if necessary.

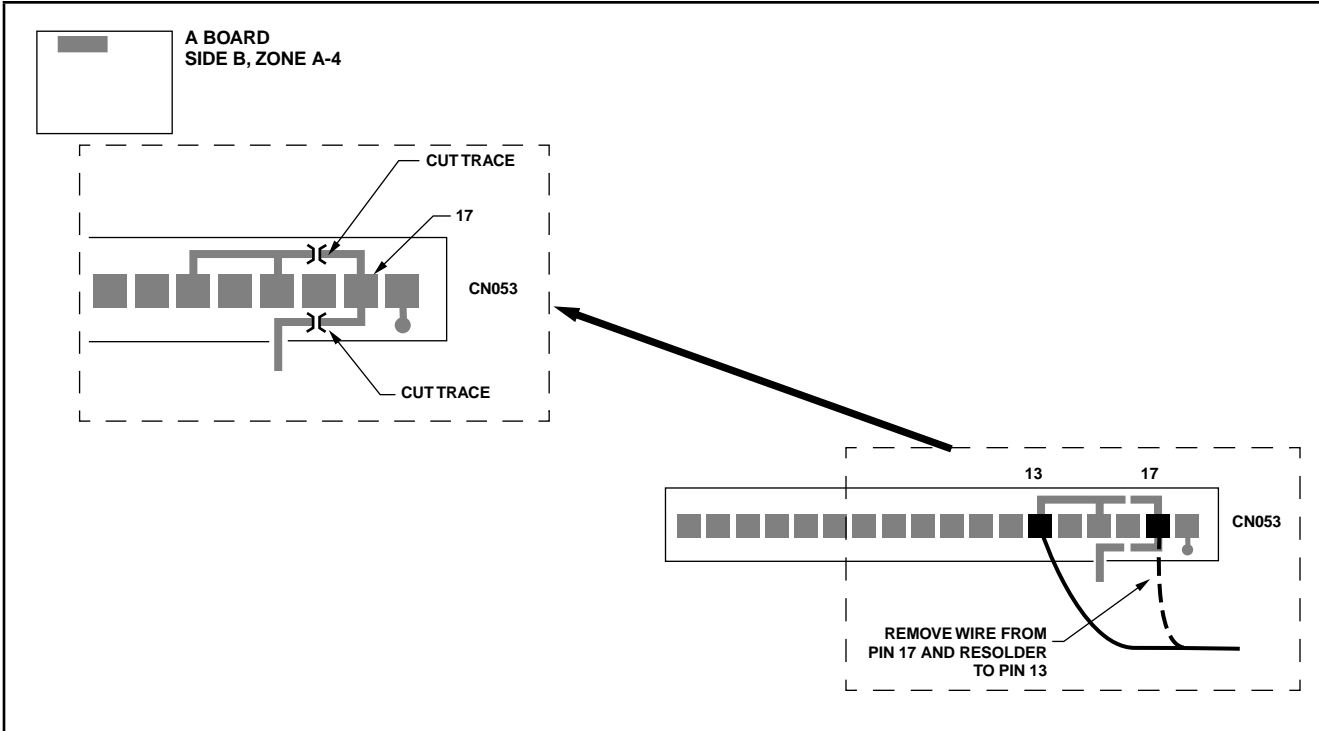


Figure 1

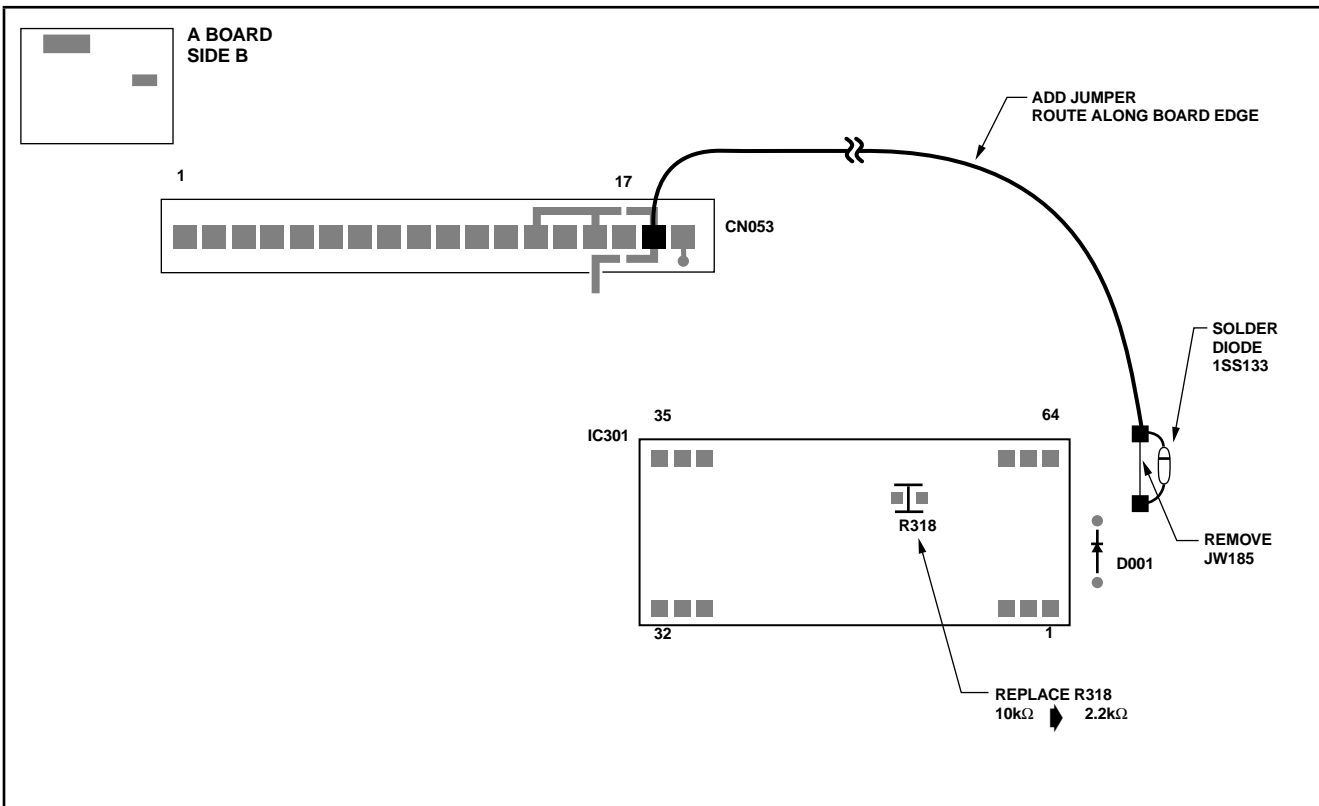


Figure 2