



Display

Date: **June 11, 2001**

Model: **BKM-41HD, BKM-42HD**

Subject: **MODIFICATION FOR MULTIPLE FORMATS**

Serial No: **SEE TEXT**

DESCRIPTION

The BKM-41HD/42HD, which is a high definition (HD) SDI decoder option board for the EverGreen HDM and BVM-D series, was originally designed for the 1035i, 1080i formats; it is currently designed for the 1035i, 1080i, 1080/50i, 1080 24PsF, 720P formats.

To change the unit from the former formats to the new formats, perform the following modification procedure.

NOTE: See Table 1 for the serial numbers of the units affected by this bulletin and the monitors used in each format.

PARTS REQUIRED

Part No.	Description	Qty.
1-216-667-11	Res, Chip, 4.7kΩ (R190, R205, and R220)	3
4-064-601-01	Tape, Conductive Fabric 25.4x60	2
4-064-601-11	Tape, Conductive Fabric 25.4x90	1
4-064-601-21	Tape, Conductive Fabric 25.4x150	1
8-759-654-04	PLD ROM: HD31 (IC101)*	1
* This modification procedure may also require the following part for IC101, if the latter is not mounted on an IC socket:		
1-526-652-21	IC 8P DIP Socket	1

Table 1

Unit	1035i, 1080i Formats		1035i, 1080i, 1080/50i, 1080 24PsF, 720P Formats	
	Serial No.	Monitor Used	Serial No.	Monitor Used
BKM-41HD/42HD	2,000,001–2,199,999*	HDM-20E1* HDM-14E1 HDM-14E5 BVM-D24E1 BVM-D20F1	2,500,001–2,600,001	BVM-D24E1 BVM-D20F1

* If units with these serial numbers are modified for the new formats as described in this bulletin, and HDM-20E1 is modified as described in Video Products Technical Bulletin 1999-186, the monitor will support the 1080 24PsF and 1080 50i formats, but not the 1035i, 1080i, and 720P formats.

MODIFICATION PROCEDURE

BHD Board

(See Figures 1 and 2.)

1. Remove conductive tape from four locations on unit and remove top cover.
2. Remove four screws to remove shield plate from solder side of board.

Side A

3. Replace former (PLD ROM: HD1 or HD2) IC101 (zone D-4) with new ROM.

If IC101 is not mounted on an IC socket, install an IC socket first then mount the IC.

4. Remove (47μF) capacitors C231, C236 and C241 (zones G-2/3/4, respectively).
5. Remove (470μF) capacitor C265 (zone E-1).

Side B

6. Remove (0.01μF) capacitors C232, C237, and C242 (zones G-6/5/4, respectively).
7. Replace former (2.2kΩ) resistors R190, R205, and R220 (zones G-6/5/4, respectively) with the new 4.7kΩ parts.



8. Reinstall shield plate, using screws removed in step 2.
9. Reinstall top cover, using new conductive tape.

CONFIRMATION

1. Prepare Tektronix TG2000, or equivalent signal generator, equipped with the HD SDI option (HDVG1).
2. Install modified BKM-41HD/42HD into appropriate monitor.
3. Input color bars and ramp signal for each format, and verify that picture is without horizontal or vertical noise and is properly displayed.

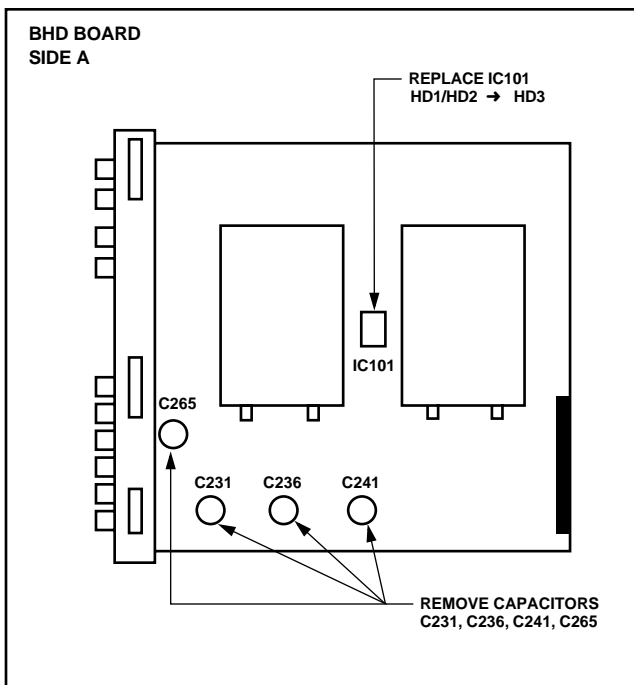


Figure 1

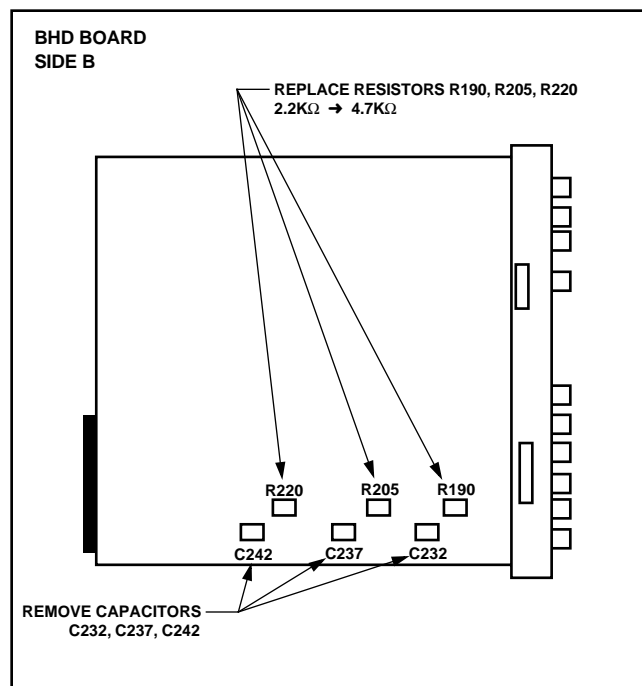


Figure 2