



Display

Broadcast Products Technical Bulletin 20-2005-178

DATE: December 26, 2005

SUBJECT: **HIGH VOLTAGE DROPS WHEN HD SIGNAL IS CUT; NO PICTURE DUE TO PROTECTOR OPERATION**

MODEL: ***BVM-D9H1E***
BVM-D9H5A
BVM-D9H5E
BVM-D9H5U

SERIAL NO:

BVM-D9H1E 2,000,001–2,000,026
BVM-D9H5A 2,000,001–2,000,020
BVM-D9H5E 2,000,001–2,000,190
 BVM-D9H5U 2,000,001–2,000,686

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

DESCRIPTION

Symptom 1

When the BKM-142HD option board is installed, high voltage may drop when the HD signal is cut off. The high voltage cannot be restored, even when the HD signal is input again.

If symptom 1 occurs, perform "MODIFICATION PROCEDURE 1" on page 1.

Symptom 2

When both BKM-142HD and BKM-120D are installed, and when the input switch on the menu is changed from D1 SDI to HD SDI without an HD SDI signal, the picture is not displayed because of protector operation.

If symptom 2 occurs, perform "MODIFICATION PROCEDURE 2" on page 2.

MODIFICATION PROCEDURE 1

Parts Required

Part No.	Description	Qty.
MBVMDOS/3	Software V1.17	1

Procedure

Upgrade software to V1.17.

CAUTION: If the harness that connects the T board (CN801) to the B board (CN301) is too close to the DY, noise may interfere with the H sync signal on the harness, causing the relay to malfunction (chatter). The harness may also pick up an H pulse signal, even though no video signal is input.

To prevent interference, reroute the harness that is folded in the purse lock on the T board side 180°, so that the harness exits the purse lock away from the DY and is 20–30 mm away from the DY.

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:

DPM004-041R

Technical Bulletin 001999000

MODIFICATION PROCEDURE 2

Parts Required

Part No.	Description	Qty.
T-998-610-61	Piggyback Board	1
8-759-239-34	IC, TC74HC4538AF	1

Also Required: RTV (7-322-065-72)

Procedure

D Board (Side B)

1. Remove C2632 (220 μ F), which is soldered in parallel with R2553 (zone B-6).

(See Figure 1.)

2. Modify the H SYNC circuit on the D board by adding a piggyback board as follows:
 - a. Remove IC2505 (zone D-7).
 - b. Cut the trace leading from IC2505 pin 3.
 - c. Replace IC2505 with a new IC (TC74HC4538AF).
 - d. Attach a piggyback board to the D board as shown in Figure.
 - e. Affix the piggyback board to the D board with RTV.

(See Figure 2.)

NOTE: If the piggyback board is not available, modify the H SYNC circuit on the D board by adding individual components as follows:

- a. Remove IC2505 (zone D-7).
- b. Cut the trace leading from IC2505 pin 3.
- c. Replace IC2505 with a new IC (8-759-239-34, TC74HC4538AF).
- d. Solder the cathode of a new diode (8-719-921-20, 1SS119) to IC2505 pin 3.
- e. Solder the anode of the diode to the thru-hole on the lower right side of C2583.
- f. Solder a 0.1 μ F capacitor (1-136-165-00) between pins 3 and 8 of IC2505.
- g. Solder a 1 M Ω resistor (1-247-903-00) to both leads of the capacitor.

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To prevent interference, reroute the harness that is folded in the purse lock on the T board side 180°, so that the harness exits the purse lock away from the DY and is 20–30 mm away from the DY.

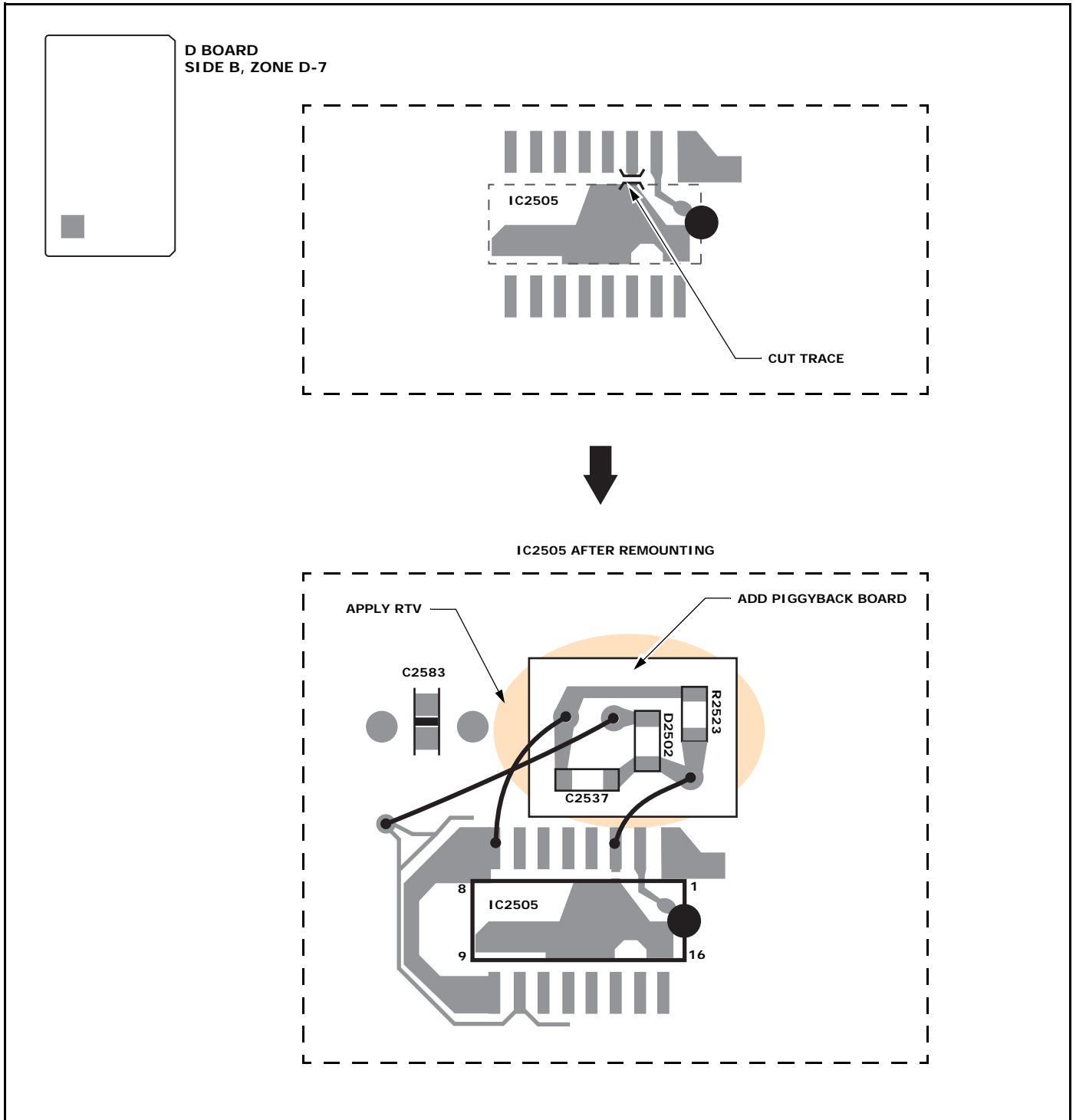
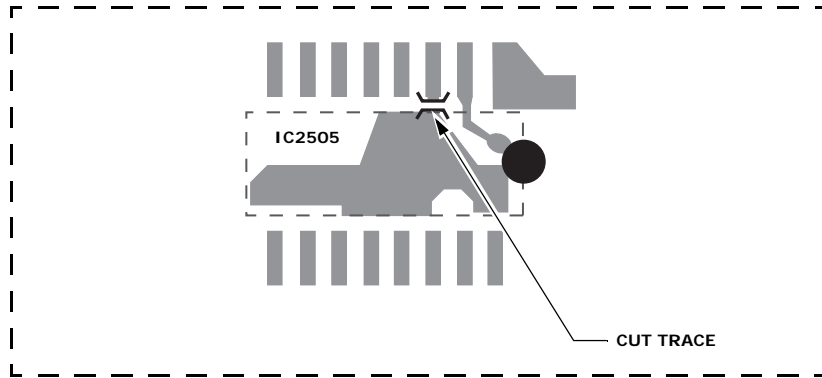


Figure 1



D BOARD
SIDE B, ZONE D-7



IC2505 AFTER REMOUNTING

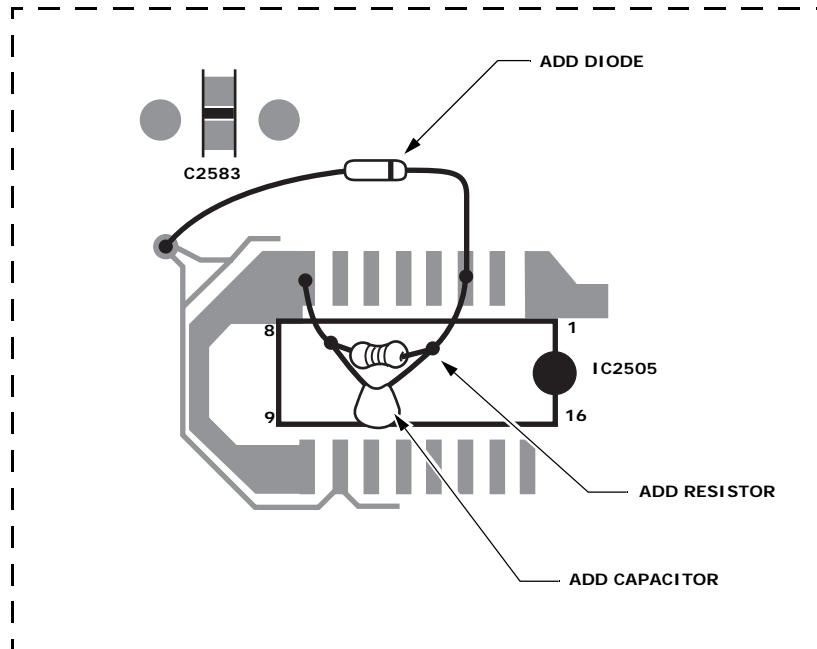


Figure 2