
Technical Bulletin

Re: Both The Left And Right Edge Of The Image Cannot Be Displayed At Once.

Applies to: Marquee 8000 and 9000 projectors manufactured before February 1995.

Symptoms: The visual symptom for this problem is that a portion of the left and right side of the projected image cannot be displayed. Adjustment of HORIZ PHASE, LEFT BLANK, RIGHT BLANK or RETRACE (long or short) does not fix the problem. This problem occurs primarily with high scan rate VGA type sources (46 - 59kHz).

Cause: This problem is due to the fact that the blanking time of the source signal is of shorter duration than the blanking time of the projector.

Action: Qualified service personnel are welcome to perform the following modifications to the Control Module (CLM), the Deflection Processor Board (DPB) and the Horizontal Deflection Module (HDM). **The modifications described in the following three sections must ALL be done in order to alleviate the above stated symptoms.**

1. CLM

Check the version of the main software on the CLM (U35). U35 should be V2.0 (or higher). If it is not, replace it with V2.0 (Electrohome part number 03-00V200-01P).

2. DPB

Check the version of the DPB software on the DPB (U7) in order to determine the type of DPB installed. The DPB is the daughter board (on the right) on the CLM. A "new" DPB can be recognized by its U7 version. The version of DPB U7 is D4.XX (or higher) on "new" DPB's and the version of DPB U7 is D3.XX (or lower) on "old" DPB's.

U7 should be D4.50 (or higher). D4.50 should only be installed in a "new" DPB. The Electrohome part number for D4.50 is 03-00D450-01P. If you have a "new" DPB without D4.50 replace U7 with D4.50. Do not use D4.34 as it will cause unstable internal characters (menus or x-hatch) when it is used in combination with an HDM which has been modified as per the instructions below. If you have an "old" DPB you will have to

Technical Bulletin

replace the DPB with a “new” one. A “new” DPB can be ordered from Electrohome by requesting service part number 03-250306-07P.

3. HDM

Check the “50-2003-xxP” number of the HDM stamped on the printed circuit board in white lettering (near the large heatsink) in order to determine the type of HDM installed.

If the HDM’s “50-2003-xxP” number ends with -04P, perform the following modifications to the HDM. (Please note that your module may already have some of these modifications done.)

Change capacitors C7, C9, C10 and C15 from 3N9 to 3N3, 2000V.
Use only Electrohome part number 49-000038-14P capacitors.

Check U24 for manufacturer type. **Do not use parts manufactured by Harris.** Use Electrohome part number 14-002154-02P if a change is required.

Connect a 1K resistor across U10, from pin 11 to pin 8 (any manufacturer or Electrohome part number 80-110015-11P).

If your HDM is earlier than (50-2003-04P) you will need to first order a new HDM (Electrohome part number 03-270303-04P) and then apply the above modifications (if necessary).

A service kit containing the following parts, can be ordered from Electrohome using the service assembly number 03-SER303-01P.

Quantity	Description
4	3.3nF capacitor, 2000V (for C7, C9, C10 and C15)
1	1 kohm resistor, 5% (put from pin 11 to pin 8 on U10)
1	LM339 comparator (for HDM U24)
1	V2.0 CLM software (for CLM U35)
1	D4.50 DPB software (for DPB U7)

Note: **The above modifications require delicate soldering work on electronic components and should be performed by qualified service personnel only.** Please use proper Electrostatic Discharge (ESD) procedures. If you are uncomfortable with

Technical Bulletin

performing these modifications, they can be done for you at an authorized Electrohome service depot.