

# Procedure for Replacing the [B] Board for DA4

- 1) Remove the NVM from the NEW [B] board
- 2) Remove the NVM from the Defective [B] board and apply it to the NEW [B] board
- 3) Install the NEW [B] board into the chassis
- 4) Apply power and confirm the picture is okay.
- 5) Adjust the white balance (color temperature):
  - a) Use Pro mode, color setting is **minimum**, and a white field signal through Video 5
  - b) Adjust using the data registers, 2170P-1 GDRV, BDRV, GCUT, BCUT
  - c) Write the data when finished
- 6) Set the color offsets for 480I component
  - a) Use Pro mode, color setting is **maximum**, and a white field signal through Video 5
  - b) Change 2170P-1 TCOF 0 → 1, half of the screen should lose color
  - c) Change the following register to adjust, 2103-1 CBO1, CRO1
  - d) Target is to have the same color temperature between the top and bottom of the picture
  - e) Write the data when finished
- 7) While viewing Video 5, adjust the 2103-1 CBO2 CRO2 according to the following equation
  - a) Use the following equation  $2103-1 \text{ CBO1} - 5 = \text{CBO2}$ .
  - b) Use the following equation  $2103-1 \text{ CRO1} - 4 = \text{CRO2}$ .
  - c) Write the data when finished
- 8) Again set the color offsets for 480I composite
  - a) Use Pro mode, color setting is **maximum**, and a white field signal through Video 1
  - b) Change 2170P-1 TCOF 0 → 1, half of the screen should lose color
  - c) Change the following register to adjust, 2103-M CBO1, CRO1
  - d) Target is to have the same color temperature between the top and bottom of the picture
  - e) Return 2170P-1 TCOF 1 → 0 after adjustment is complete
  - f) Write the data when finished
- 9) If touchup is required for the picture, the following data can be modified:
  - a) For Sub-Picture.....2170P-4 SPIO
  - b) For Sub-Color.....2170P-4 SCLO
  - c) For Sub-Hue.....2170P-4 SHUO
- 10) Follow the flow chart to apply the remaining data modifications