

CNCREPAIR.COM MONITOR ADJUSTMENT GUIDE

Safety Warning: This information is for Qualified Personnel ONLY. Do not attempt adjustments if you are not Qualified for the procedure. Use insulated miniature screwdriver! Wear Safety Glasses. Potentially lethal voltages are present in monitors. For example: The flyback transformer and associated wiring generate 10,000 Volts on monochrome, 24,000 Volts on color monitors.

MONOCHROME (Green, Amber etc.) Monitor Adjustments:

Most monitors do NOT have all adjustments. ADJUST IN ORDER LISTED!!!

BRT, Sub Brt, Bright, BRT, BRIGHTNESS: Sets brightness, excessive brightness reduces CRT life.

CNT, CONT, CONTRAST: adjusts text contrast

HH, H FREQ, H Hold: Stabilizes image from "tearing". Do not adjust if image is readable.

VH, V-H, vertical hold: Stops image from rolling up or down. Adjust for middle of lock range (sweet spot) after image "locks" into place.

VL, VLine, Vertical linearity: Adjusts size of text on top section of screen versus on bottom section of screen.

VH, vertical height: Adjusts image height

HP, H Phase: Moves image right or left, also "unrolls image on right or left edge". Some interaction with H Hold.

FOCUS: adjusts focus: usually does not have much effect on monochrome monitors.

YOKE RING WASHERS: Rotating washers moves image around on screen, up and down and right and left. Does not modify the image like H phase, only moves the image around. Washers have lobe for adjustment, often lightly glued into place, next to yoke clamp on neck of CRT. Only on monochrome monitors!

COLOR MONITOR Adjustments:

ADJUST IN ORDER LISTED!!!! USE INSULATED SCREWDRIVER!

SCREEN: (usually bottom adjustment on flyback transformer) Adjusts background light level. Adjust so background is just going black. CW=brighter. **IF NO IMAGE VISIBLE, TURN SCREEN UP (CW) FIRST!!**

BRT, Sub Brt, BRIGHT, BRIGHTNESS: Sets text brightness, CW=brighter

CONT, CONTRAST: adjusts text contrast.

HH, H HOLD, H FREQ: Stabilizes image from "tearing" or looking "jumbled". Do not adjust if text is readable. Turning too far CW can cause monitor to shutdown, return adjustment to middle of range and remove power to reset.

V, VH, VERTICAL HOLD: Stops image from rolling up or down. Adjust for middle of lock range "sweet spot" after image "locks" into place.

VL, VLINE, VERTICAL LINEARITY: Adjusts size of text on top section of screen versus on bottom section of screen.

VH, VERTICAL HEIGHT: Adjusts image height

HP, H PHASE: Moves image right or left, also "unrolls image on right or left edge". Some interaction with H Hold.

H-WIDTH: Adjust image width

PCC, E-W: (on the main board) Providing Pincushion correction (PCC) for the image, i.e. make the horizontal edge of the image on the CRT straight.

FOCUS: (usually top adjustment on flyback transformer) Adjusts focus. USE INSULATED SCREWDRIVER!

R-, G-, B-Gain: (usually on the neckboard of the CRT) Enhance/reduce the strength of Red, Green, Blue color respectively. Properly adjust R-, G-, G-Gain to make white screens areas white. Do not adjust.

YOKE RINGS: Do not adjust on color monitors.

DO NOT ADJUST UNLABELED POTS OR ANY LABELED: HV, HV LIMIT, XRAY, VCC, POWER etc.