

HANTAREX "POLO" MONITOR REPAIR GUIDE

GENERAL INFORMATION

Made in several CRT sizes from 10" to 33" with the 20" and 25" being most commonly encountered versions. Comes in "universal" mounting frame. This monitor has a switching regulator power supply under the vented metal cover.

CRT INFORMATION

The 25" version uses an RCA # A63ADT10X05 picture tube. Use B & K rejuvenator socket adapter # CR-23 to test or rejuvenate this picture tube.

YOKE INFORMATION

The Yellow & Orange wires are the horizontal deflection section and the DC resistance of it is 1.7 ohms. The Red & Brown wires are the vertical deflection section and the DC resistance of it is 5.4 ohms.

FLYBACK INFORMATION

Original Hantarex part # 28820061. The H.R. Diemen replacement is # HR7215. The MCM Electronics (www.mcminone.com) replacement is # 142-210. Happ Controls replacement is # 49-3097-00.

CAPKIT INFORMATION

These capacitors go on the neckboard:

C12 100 uf @ 25 volts, C14 4.7 uf @ 250 volts, C18 47 uf @ 25 volts, C21 10 uf @ 50 volts

These capacitors go on the main board from the center to the right side:

C130 100 uf @ 25 volts, C137 220 uf @ 35 volts, C139 1000 uf @ 35 volts, C142 47 uf @ 25 volts, C144 1000 uf @ 35 volts, C146 4.7 uf @ 100 volts, C157 220 uf @ 16 volts, C159 2.2 uf @ 50 or 100 volts, C160 2.2 uf @ 50 or 100 volts, C165 1 uf @ 100 volts, C166 100 uf @ 25 volts, C168 100 uf @ 200 volts, C177 47 uf @ 250 volts, C181 4.7 uf @ 250 volts, C182 22 uf @ 50 volts, C184 10 uf @ 50 volts

These capacitors go in the power supply section (left side) of main board and you must remove the metal cage to access all these capacitors:

C111 220 uf @ 25 volts, C112 22 uf @ 50 volts, C114 22 uf @ 50 volts, C121 100 uf @ 200 volts, C123 10 uf @ 100 volts, C125 470 uf @ 35 volts, C129 220 uf @ 25 volts

This capacitor goes on the remote adjustment board:

C401 1 uf @ 100 volts

Zanen Electronics capkit # 810 is the correct kit for this monitor. Bob Roberts (www.therealbobroberts.net) also stocks a capkit for this monitor. Happ Controls # 49-5083-00.

REMOTE BOARD POTS

RV401 V Freq. (vertical hold) 4.7 k ohms (Mouser # 531-PTC10V-5K or # 323-409H-5K)
RV402 V Amp. (vertical size) 220 k ohms (Mouser # 531-PTC10V-250K or # 323-409H-500K)
RV403 V Shift (vertical position) 1k ohms (Mouser # 531-PTC15NV18-1K) 15mm pot
RV404 Horiz. Amp. (width) 10 k ohms (Mouser # 531-PTC10V-10K or # 323-409H-10K)
RV405 Contrast 10 k ohms (Mouser # 531-PTC10V-10K or 323-409H-10K)
RV406 Brightness 100 k ohms (Mouser # 531-PTC10V-100K or # 323-409H-100K)
RV407 H Phase (horizontal position) 10 k ohms (Mouser # 531-PTC10V-10K or # 323-409H-10K)
RV408 H Freq. (horizontal hold) 10 k ohms (Mouser # 531-PTC10V-10K or # 323-409H-10K)

HANTAREX “POLO” MONITOR REPAIR GUIDE

All pots on this board are horizontal mounting style. There is number “OC 03” silkscreened on the parts side to the right of the connector.

Copyright © 2006 by Ken Layton. All Rights Reserved.