

Removal — Taking Out the CRT

⚠ ELECTRICAL HAZARD CRTs hold high voltage after power-off. Qualified personnel only. Turn off main power, machine power and the emergency stop, then discharge the CRT before servicing. Wear appropriate PPE.

1. Identify the workstation

Turn off main power, machine power and the emergency stop. Remove the Nematron workstation from the machine by loosening the surrounding nuts.



2. Remove the back cover

Undo the cover screws and lift the vented back panel away. Keep the screws — the cover is refitted at the end.



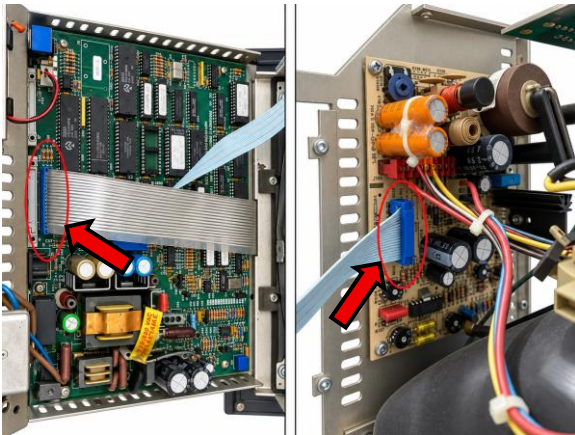
3. Open the chassis

Swing both chassis doors open to reach the logic board and CRT. **Photograph every connection before unplugging anything.**



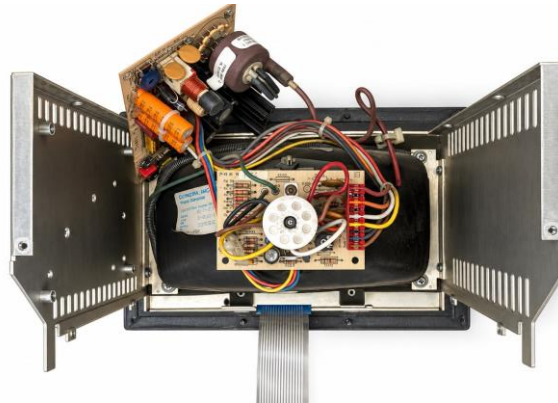
4. Unplug the ribbon cables

Release and unplug the ribbon cables at the two circled connectors — one on the logic board, one on the monitor board.



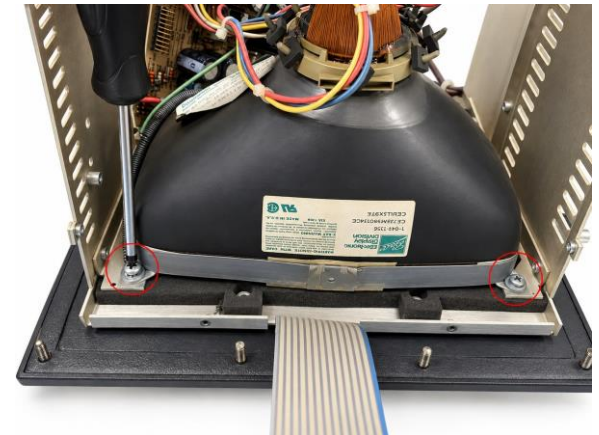
5. Strip the CRT circuitry

Discharge the CRT anode, then remove the neck board, the yoke lead and the deflection boards. None of these are reused.



6. Free the CRT

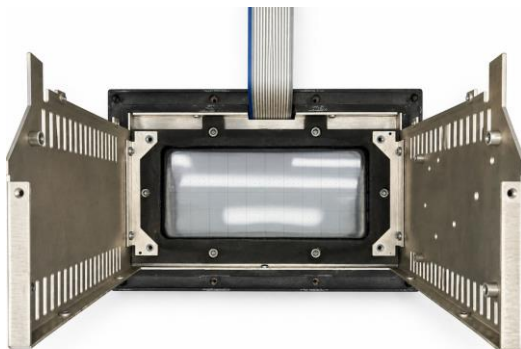
Remove the screws holding the CRT mounting ears (circled) and lift the CRT out of the chassis. **Keep these screws and the mounting rails.**



Installation — Fitting the ML090QT3005S

7. Check the empty bezel

With the CRT and all its circuitry out, the bezel and mounting rails are left clear and ready for the new monitor.



8. Mount the monitor

Fit the ML090QT3005S using the original CRT mounting holes. There are **two mounting options** — 8A or 8B. Do not overtighten.



8A. Option A — bracket stays on

Leave the bracket in place and mount to the **four circled corner holes**.



8B. Option B — bracket removed

Remove the bracket shown in step 8, then mount to the **circled side screw positions**.



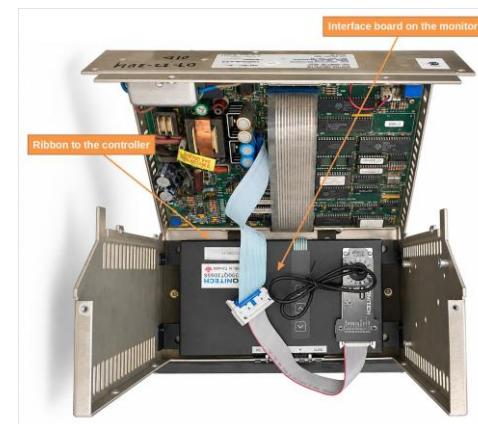
9. Fit the video interface board

Mount the video interface board to the monitor and secure the two screws, then connect the DC power lead.



10. Connect, test and reassemble

Plug the controller ribbon into the interface board. Power up and confirm a stable image before refitting the back cover.



BEFORE YOU CLOSE UP

Test first. Confirm a stable image while the chassis is still open — catching a fault now saves stripping the unit twice. Use the monitor's MENU buttons to size and centre the image. Check that no cable is pinched between the doors or against the chassis edges, and that the ribbon is not creased.

Note: some illustrations have been reconstructed with AI and may differ from your actual CRT housing.