

FANUC CRT-to-LCD Upgrade

Installation Guide

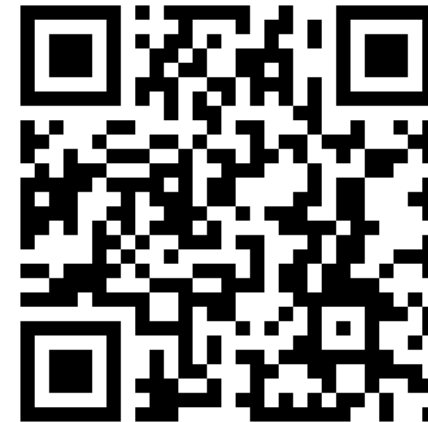
Kit **ML121LL0097 / ML121LL0096**

For FANUC A61L-0001-0097 & A61L-0001-0096 (14" CRT)

For qualified service personnel. Read this guide and all shipped documentation before starting.

**⚠ WARNING — ELECTRICAL HAZARD
DO NOT OPEN**

CRT monitors hold **high voltage** even after power-off. To avoid electric shock, do not open the product casing. Discharge the CRT with approved tools before servicing. Service by **qualified personnel only**.



SCAN TO CONTACT US

1-877-493-6105 · support@monitech.com

Before You Begin

Warranty & Safety

- Disconnect machine power at the **main disconnect** before servicing.
- **Discharge the CRT** before touching internal parts (see Section 1).
- Use only the supplied **12V 4.16A** power supply and AC cable.
- Do not open the monitor casing — unauthorized repairs **void warranty**.
- Operate within **-20°C to 60°C** (-4°F to 140°F).

Kit Contents

- Monitech LCD monitor with mounting hardware
- 12V power supply + AC cable
- VGA video cable and cable adaptor plate
- MH2003 spacer kit (use only if monitor sits too deep)

Tools Required

- Screwdrivers · nut driver · CRT discharge tool · camera/phone (to log cable positions)



Monitech LCD with mounting brackets

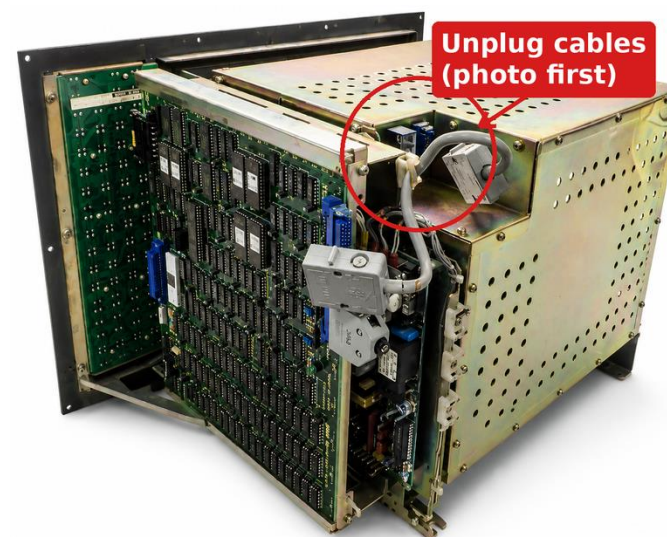


MH2003 mounting & spacer kit

Section 1 — Remove the CRT (Part A: Disconnect)

1. **Power down.** Turn off machine power, then the main disconnect.
2. **Photograph the wiring**, then unplug the cables at the controller. Photos ensure correct reconnection later.
3. **Remove the front-panel fasteners** holding the monitor panel to the machine face.
4. **Disconnect** the power and blue video connectors from the CRT.

FANUC 14" CRTs use one of **two power-connector types** — note which one you have before unplugging.



unplug cables at the controller

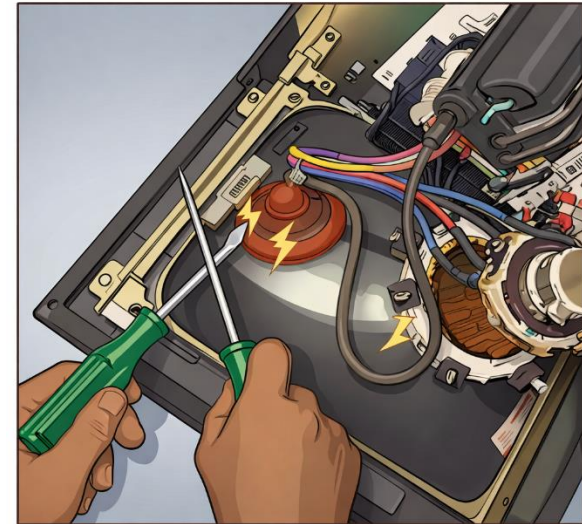


remove front-panel fasteners

Section 1 — Remove the CRT (Part B: Discharge & Strip)

High-voltage step. A CRT can hold a lethal charge after power-off.

- 1. Discharge the CRT:** slip a screwdriver under the anode-lead rubber and bridge it to chassis metal with a second grounded screwdriver. Then release the anode cap.
- 2. Remove the CRT-frame fasteners** securing the frame to the monitor panel.
- 3. Remove the CRT.** Take out the neck board, disconnect the yoke, and remove the remaining internal boards — they are not reused.
- 4. Keep the CRT mounting screws** — you will reuse them to mount the Monitech monitor.



discharge the anode to chassis

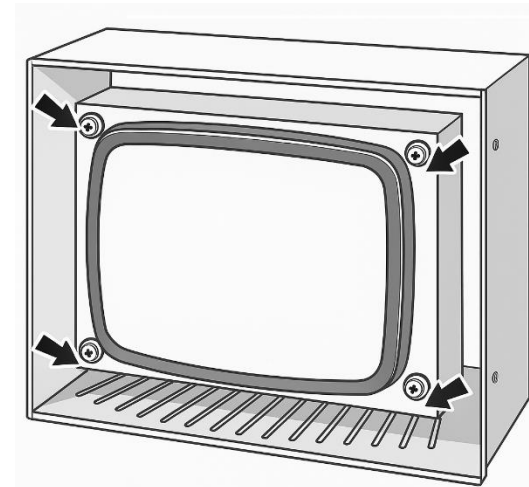


Remove CRT-frame fasteners

Section 2 — Install the Monitech LCD

1. Mount the LCD into the old CRT housing using the **original CRT screws** you set aside.
2. Make sure the monitor is **seated squarely** and secured at all corners.
3. Use **MPL121CB** if required to fill up the gap between front panel and monitor by attaching it to the monitor on its fastening holes.
4. **Refit the frame** (with the LCD attached) onto the control panel using the original mounting holes.
5. If the screen sits **too deep** behind the panel face, fit the **MH2003 spacers** on all four corners, then re-mount.

Empty housing shown for reference — all CRT electronics and the rubber bezel are discarded.



Mount LCD with original screws



Stripped CRT housing



Mount bracket with original screws

Section 3 — Connect & Power Up

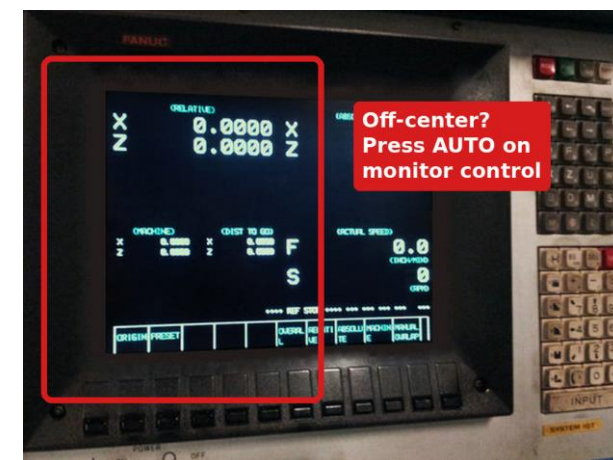
1. **Fit the cable adaptor plate** where the old power/video corner mount was. Connect the **VGA** and **power jack** to the monitor; plug the AC cable into the supplied power supply.
2. **Reconnect the machine harness** — every cable removed at the start (use your photos).
3. **Power up:** turn on the main disconnect, then machine power. The LED turns **green** on a valid signal.
4. If the image is off-center, press **AUTO** on the monitor control to auto-fit.
5. **Refasten the monitor panel** to the machine face.

Final Check

- Monitor mounted securely · all cables connected · no pinched wires · image verified.



Cable adaptor: VGA + power



Press AUTO to center the image

You're all set.

Keeping your FANUC workstations and HMIs up & running.

Technical Support

1-877-493-6105 · support@monitech.com · www.monitech.com
20 Howard Place, Kitchener, Ontario N2K 4Z4, Canada · 519.725.2222

