

ML084QTMX2S & ML084QNMX2 INSTALL GUIDE

LCD upgrade kit

For 9" Prototrak MX2, MX3, AGE2, AGE3, LX2 &
LX3 CRT



FOR MX2, MX3, AGE2,
AGE3, LX2 & LX3.

CONTROLLER #: 15814R
REV F

FOR MX2, MX3, AGE2,
AGE3, LX2 & LX3.

CONTROLLER #:
16274R REV C & 20180
REV E & 21262 REV B

MONITECH
PRACTICAL SOLUTIONS FOR INDUSTRIAL DISPLAYS

IMPORTANT:

WARRANTY

Before using any MONITECH product please carefully review this Manual as well as any additional documentation provided with your shipment.

Attempting any of the following will void product warranty:

- unauthorized repairs or parts replacement
- inappropriate use or placement: exposing product to liquids, harmful gases, electrical shock, physical shock, temperatures beyond the range of -4°F to 140°F (-20°C to 60°C)
- use of electrical voltage other than 12V 4.16A (power supply and AC cable provided)
- Removal or modification of serial, product, or warranty labels.

	WARNING ELECTRICAL HAZARD DO NOT OPEN	
TO AVOID ELECTRICAL SHOCK DO NOT OPEN PRODUCT CASING. UNAUTHORIZED REPAIRS OR PARTS REPLACEMENT ARE PROHIBITED AND WILL VOID PRODUCT WARRANTY. PLEASE RETURN TO MONITECH FOR REPAIRS.		

REMOVAL:

Step #1) Turn off turn off main power, turn off machine power.

Step #2) Unplug the Logic Cable, Power Cable and Ground from the console. Unplug any other cables from the back of the console.



Unplug the Logic Cable, Power Cable and Ground from the console. Unplug any other cables from the back of the console.

Step #3) Unscrew the 4 screws holding the console on side of the Milling Machine. Take the cabinet onto a bench.



Unscrew the screws that is mounting the console.

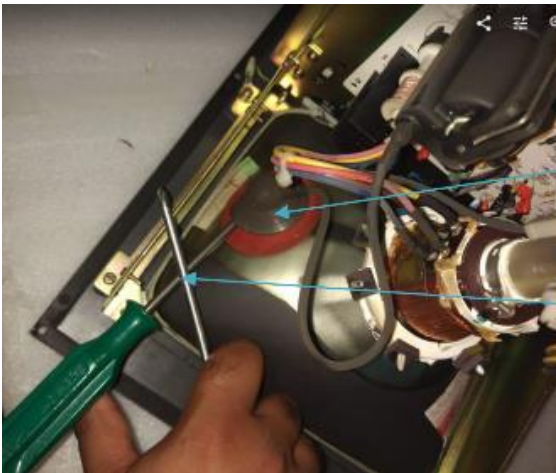
Step #4) Unscrew the 8 Screws holding the back cover of the console, to open it up to get to the CRT.



Unscrew the screws that is mounting the back cover of the console.

Step #5) Discharge the CRT, it has high voltage. Be careful. Put a flat head screw driver underneath the anode lead cap so it is touching the metal part.

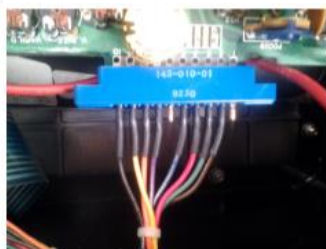
And get another screwdriver and cross it with the flat head used and touch the metal frame with it. After a minute take the Anode lead Cap off, or unplug it from the driver board of the CRT.



Anode
Lead

This method
grounds out
all high
voltage from
the CRT

Step #6) Open up the back cover carefully. Unplug the Blue Connector from the CRT board. Unscrew the 4 Nuts holding the CRT in place. Remove the CRT out of the console.

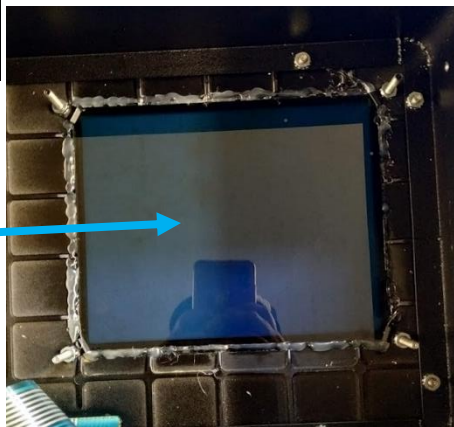


Unplug this
blue connector



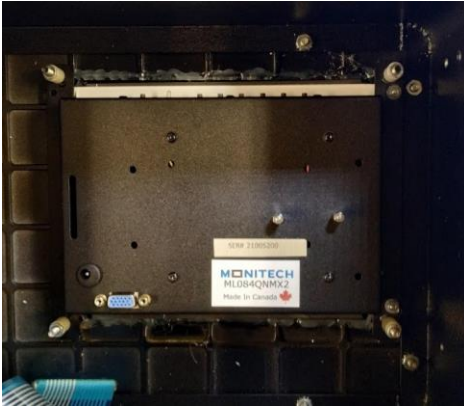
Unscrew the nuts
holding the CRT in
place.

This is what is left
after taking the CRT
out of the console.



INSTALLATION:

Step #7) Now place your Monitech Monitor into the console, by using the 4 screw studs to mount it.



Step #8) Take out the MK041, then take out the MAB409 out of the bag. The MAB409 now uses the **MPCB003 V2** board. Set it up as shown below.

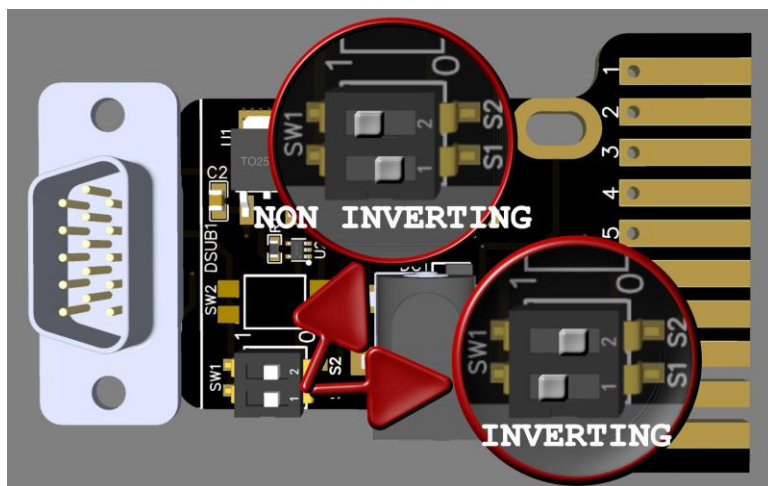
8a) Set the configuration DIP switch (SW1).

The MPCB003 V2 has a two-position DIP switch that sets the green video configuration. Set it to match your machine:

GREEN (non-inverting): S1 = 0, S2 = 1

INVERTED GN (inverting): S1 = 1, S2 = 0

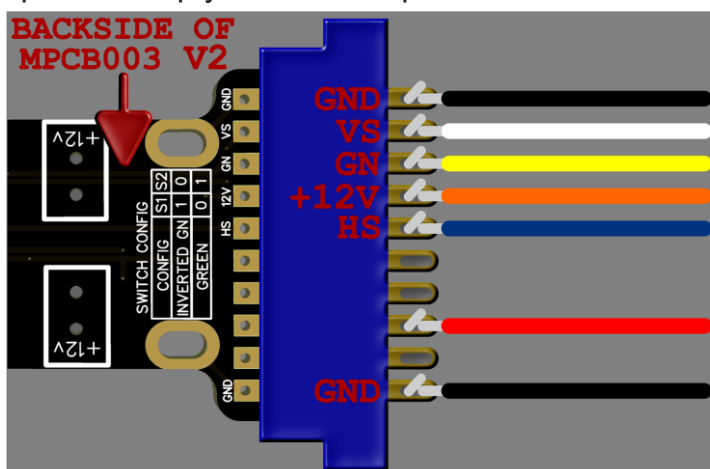
The same table is printed on the back of the board for reference.



SW1 configuration — non-inverting (top) and inverting (bottom).

8b) Check the blue connector orientation.

Seat the machine cable on the board with the wires lined up to the pin labels printed on the board: GND, VS, GN, +12V and HS, with GND on the outer pin at each end. Note whether a wire is present on the +12V pin — this determines which power setup you use in step 8d.

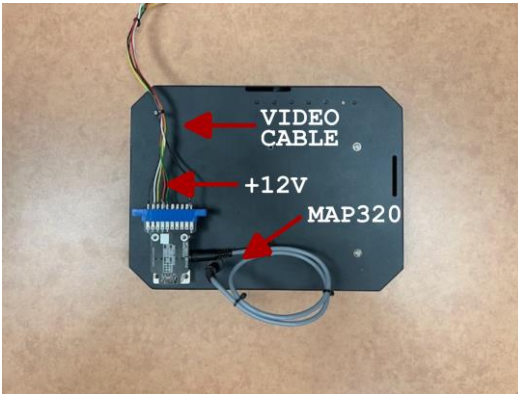


Backside of MPCB003 V2 — connector orientation and pin labels.

8c) Plug the MPCB003 into the VGA connector and attach the 2 screws.

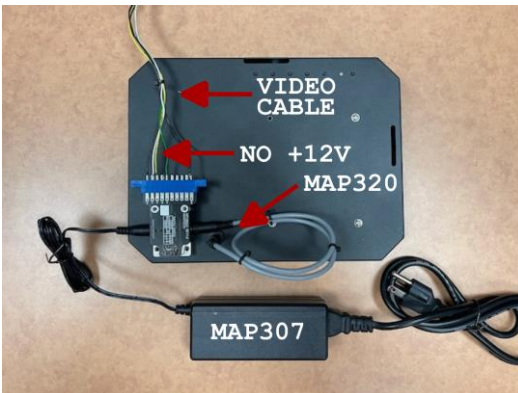
8d) Connect power.

If you have 12 VDC on Pin 7 of your video connector, connect the MAP320 cable only — no external power supply is required.



Setup with 12 VDC on Pin 7 of the video connector.

If you do NOT have 12 VDC on Pin 7, you must also use the MAP307 power supply along with the MAP320 cable.



Setup with no 12 VDC on Pin 7 — MAP307 power supply required.

Step #9) Before assembling everything back together on your machine. Do a bench test by just providing power to the console. You should get an image of green lines running across your screen.



Step #10) Take the console, still have the back cover unscrewed. Plug all the connectors in that were unplugged in Step # 2.



Plug the Logic Cable, Power Cable and Ground from the console. Plug any other cables from the back of the console.

Step #11) Power on the machine and main power. You should get an image. Use the User Controls found on the back of the monitor to adjust your screen so that it is centred, and all the contents of the image are shown in the display. Use the User Guide Document to show you how to use the menu.

3.4" LCD RETROFIT USER GUIDE
ML084QN00



SCAN ABOVE TO CONTACT US

Support
Phone: 1-877-403-8100
Email: support@mcnicarb.com

FOR ML084QNMx2



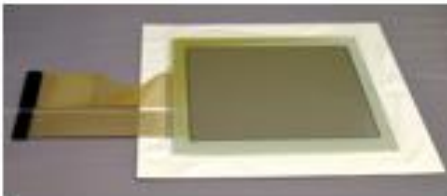
Step #12) Shut off the main power and machine power. Then screw in the back cover. Screw the console back onto the side of the machine with 4 screws. Make sure all the plug is plugged in. Then power your main power and machine power. The screen should display the perfect image of your Prototrax MX2.



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