

# LCD upgrade kit

**FOR YOUR 14" Cincinnati Milacron 2100  
(Light)**



**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:

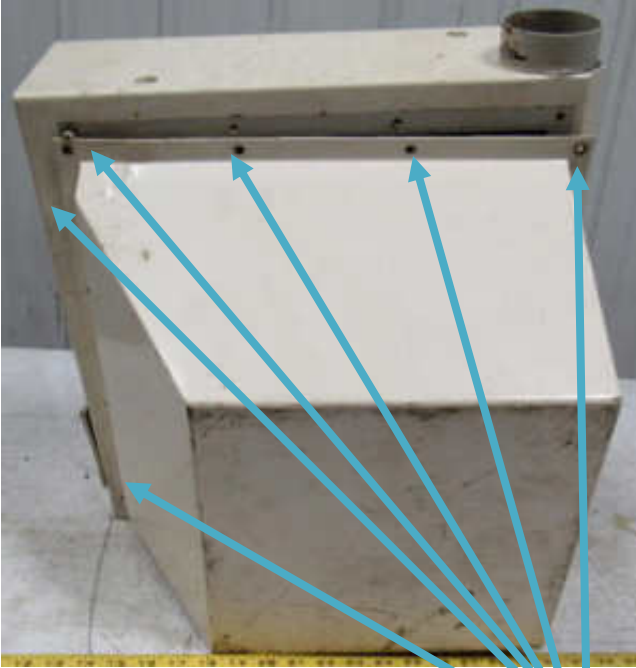
- unauthorized repairs or parts replacement
- inappropriate use or placement: exposing product to liquids, harmful gases, electrical shock, physical shock, temperatures beyond the range of -4°F to 140°F (-20°C to 60°C)
- use of electrical voltage other than 12V 4.16A (power supply and AC cable provided)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

	<b>WARNING</b>	
	<b>ELECTRICAL HAZARD DO NOT OPEN</b>	
<p>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.</p>		

# REMOVAL:

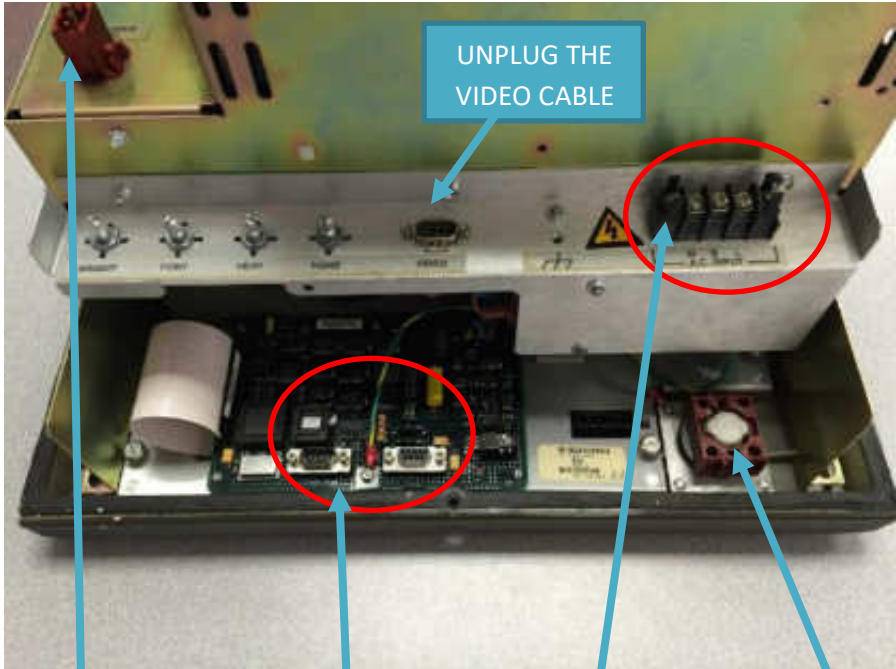
**Step #1)** Turn off turn off main power, turn off machine.

**Step #2)** Open up the back panel of the monitor by unscrewing all surrounding screws. Keep the back cover and all screws removed for re-installation.



UNSCREW THESE  
SCREWS HOLDING THE  
BACK COVER IN PLACE.

**Step #3)** Unplug cables from the controller. Unplug Video Cable, Fan Power Connector & Emergency Button Connections. Unscrew the power (N.E.L). Please take a photo of all the wires before unplugging anything so when you re-install the monitor you know where everything goes. Note all wire's locations and polarities.



UNPLUG THE FAN

UNPLUG THESE CONNECTIONS

UNSCREW THE WIRES N.E.L

EMERGENCY BUTTON

**Step #4)** Take the Cincinnati Acramatic HMI Unit out of the frame from the machine by pushing up on the HMI Unit to loosen the hinges. Be careful this unit is very heavy. Put the HMI Unit on a beach.

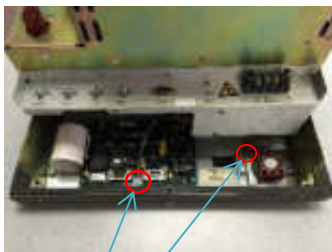


PUSH UP ON THE HMI UNIT HERE.



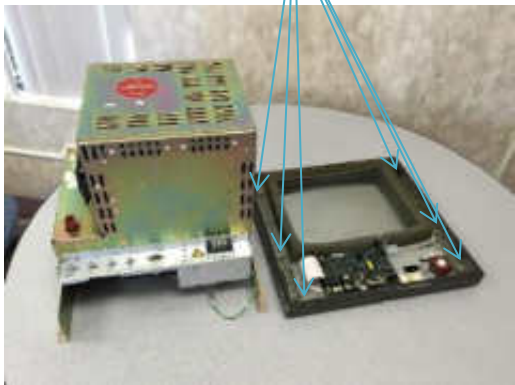
THESE HINGES ARE THE HINGES KEEPING THE HMI UNIT IN PLACE

**Step #5)** Now that the HMI Unit is on your bench you can start by taking the front bezel off by unscrewing the ground on controller board and on emergency button. Unscrew the 3 screws on each side of the metal frame. Take a picture of the grounds before removing and keep all removed screws for re- installation.

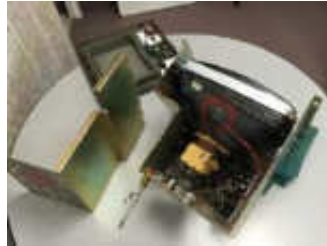


UNSCREW THESE GROUNDS

UNSCREW THESE SCREWS TO TAKE OFF THE BEZEL



**Step #6)** Take the back plate off the metal frame, to access some wires in the monitor.



**Step #7)** Remove high voltage from the CRT by placing a screwdriver underneath the rubber of the anode lead and the other end touch metal, with another screwdriver put the tip onto metal and cross it with the first screwdriver. Then remove the anode lead by pushing one contact in so that it



**Step #8)** Remove the neck board, disconnect the yolk, degauss cables & remove all other boards from housing they are not needed.

REMOVE  
NECK  
BOARD



REMOVE  
THE  
YOKE



REMOVE  
DEGAUSS  
CABLE



REMOVE  
THESE  
BOARDS



**Step #9)** Unscrew the fasteners holding the CRT Frame from the Monitor Panel. Unplug dag spring cable and other blue cable. Cut the degauss zip ties off from the CRT.



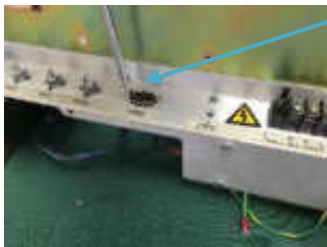
UNSCREW THESE SCREWS  
HOLDING THE CRT IN PLACE.



UNPLUG THESE  
CONNECTORS



**Step #10)** Remove the old video connector from the frame and replace it with our adaptor cable.



Remove this  
connector

Replace the  
connector  
removed with  
our supplied  
adaptor cable



**Step #11)** Remove the power filter and leave just the ground. Plug in our power adaptor (MAP308) into the 2 plugs.



REMOVE THIS &  
LEAVE THE GROUND



USE MAP308 TO  
PLUG HERE

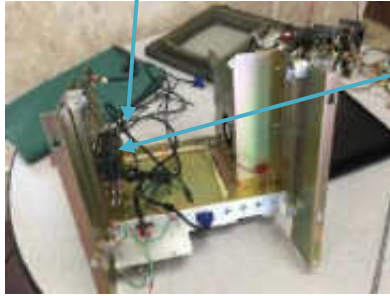


**Step #12)** Cut all the wires doing the BRIGHT, CONT, VERT & HORZ Pots. Or unscrew them. Then Attach MAP308 other end to MAP307 and zip tie it to the frame.

REMOVE



OTHER END OF MAP308 TO MAP307



ZIP TIE THE  
POWER  
SUPPLY WE  
SENT TO  
THE  
FRAME  
(MAP307)

## ASSEMBLE:

**Step #13)** Now you are left with the old CRT housing in which you are going to place your Monitech Monitor in. First you must unscrew the black screws on the side of the Monitech Monitor.

OLD CRT HOUSE FRAME KEEP THIS FOR  
INSTALLING YOUR MONITECH LCD UPGARDE.

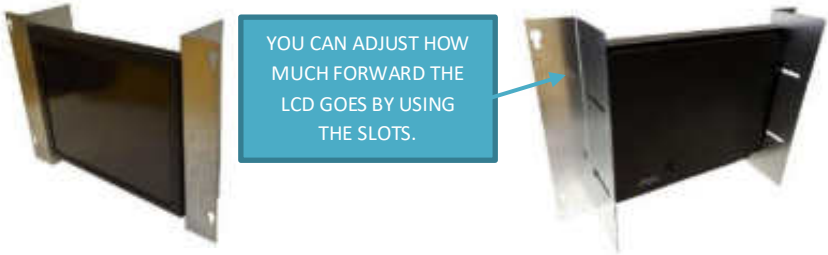


REMOVE ALL 4 SCREWS FROM  
THE SIDE OF THE MONITOR.





**Step #14)** Attach to 2 metal brackets onto the side of the monitor using the black screws taken off in Step #12.



**Step #15)** Attach your Monitech Monitor to your Old CRT Housing Frame by mounting CRT frame back on to the bezel and attach the monitor. Connect the Video Connector & the Power Jack to your Monitech Monitor.

PLUG IN THE VGA SIDE INTO YOUR MONITECH MONITOR AND THE POWER JACK.



PLACE THE LCD AS SHOWN IN THE 1<sup>st</sup> PICUTURE THEN MOUNT THE OLD CRT FRAM THE LCD MONITOR & THE BEZEL TOGETHER.



# INSTALLATION:

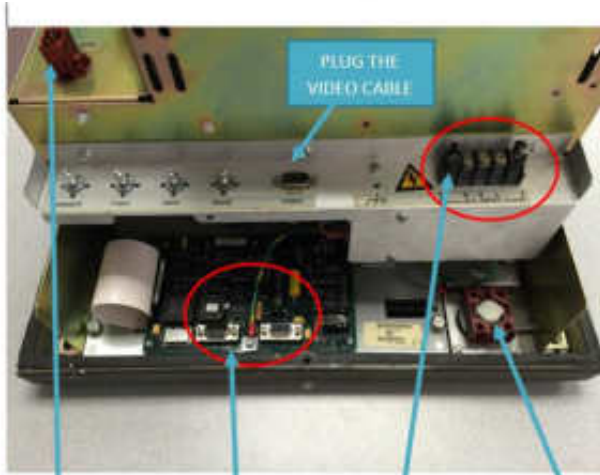
**Step #16)** Put the HMI Unit back into the machine frame using the hinges. Unplug cables from the controller. Plug Video Cable, Fan Power Connector & Emergency Button Connections. Screw the power (N.E.L).



SLIDE THE HMI UNIT HERE.



THESE HINGES ARE THE HINGES KEEPING THE HMI UNIT IN PLACE



PLUG THE FAN POWER

PLUG THESE CONNECTIONS

SCREW THE WIRES N.E.L

EMERGENCY BUTTON

PLUG THE VIDEO CABLE

**Step #17)** Turn ON Main Power and Machine Power. Adjust the screen with the user manual, or just press AUTO. Then put the back cover on.



**YOU ARE ALL SET!!!  
THANKS FOR YOUR  
BUSINESS FROM THE  
MONITECH FAMILY. 😊**

# Keep your FANUC Workstations + Other HMI's Up & Running!



Replacement for your  
FANUC GE C131,  
C050, 18T with 9" LCD



LCD Replacements  
for your FANUC 9"  
CRT's



ML090PT0116S - 10.4"  
Fanuc A61L-0001-0116



LCD Replacement for  
your 14" FANUC  
CRT's



Touch Screen for  
Fanuc 21i 10.4 "  
(A02B-0281-C081)



LCD PANEL LMG5320XUFC for  
the Fanuc A02B-0200-C081 &  
A02B-0210-C040  
(LMG5320XUFC)

For Technical Support, Call

**1-877-493-6105**

[Support@Monitech.com](mailto:Support@Monitech.com)

## MONITECH

20 Howard Place  
Kitchener, Ontario N2K 4Z4  
CANADA 519.725.2222