

LCD upgrade for Okuma OSP 5000 & 5020

ORIGINAL CRT OSP 5000 ▶



ORIGINAL CRT OSP 5020 ▶



▼ NEW MONITECH LCD ML121PN5000



▼ NEW MONITECH LCD ML121PN5020





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	
<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 main power, turn off machine.

Step #2) Remove mounting screws securing the CRT chassis. Remove chassis from control panel. Disconnect video power connector. Note its location and polarity. Disconnect video signal cable. Note its location and polarity.

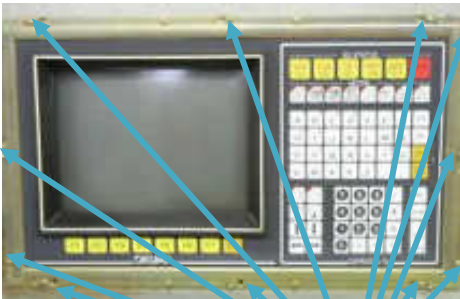
Disconnect video signal cable. Note its location and polarity.

Disconnect video power connector. Note its location and polarity.



BEFORE

AFTER



Remove screws holding the HMI of the OSP 5000 or OSP 5020. Keep the screws for reinstallation.

Step #3) This disassembly has many various sized screws. The screws are best to be sorted using a multi-sectional storage box. Remove the top and back covers and disconnect the fan - 8 Screws.

Remove the top and back covers and disconnect the fan - 8 Screws.

BEFORE



AFTER



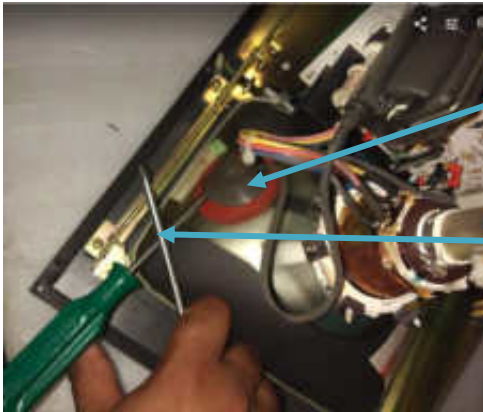
Step #4) Disconnect Power connector ACIN 4 position & Disconnect connector INTVR 3 position.



Step #5) Discharge the CRT tube.

Using a large flat screwdriver, with a well-insulated handle, connect a clip of the anode lead, to a good chassis ground. Connect the wire to the screwdriver shaft, electrical tape is fine.

With the wire grounded and being careful not to touch any metal with your hands, pry the screwdriver under the rubber anode cap, and contact the wire inside. There may or may not be a spark.



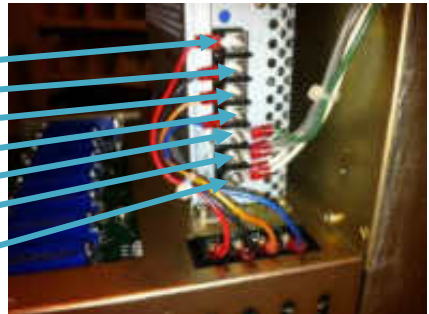
Anode
Lead

This method
grounds out
all high
voltage from
the CRT

Step #6) Position Monitor Face Down and remove the wire from the Power Supply: Remove the following and remove 4 screws holding the power supply in place. Please take a picture before removing for re assembling purposes. Keep screws removed for re assembling.

1. +5 vdc
2. Common
3. V1
4. V2
5. Frame Ground
6. AC 1
7. AC 2

- Red Wire
- Black Wire
- Orange Wire
- Blue Wire
- Green Wire
- Gray (2 Wires)
- White (2 Wires)



Step #7) Follow the below instructions.

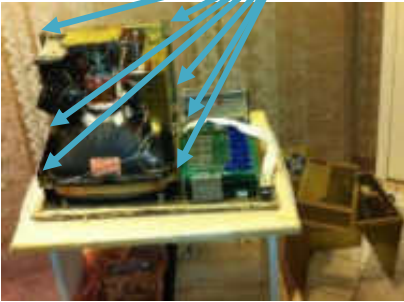
1) Remove Left Side Small Housing, (4 Screws).

Remove Left Side Small Housing, (4 Screws).



2) Remove CRT main housing. (7 screws). Lift out the entire CRT and chassis.

Remove CRT main housing. (7 screws).



Lift out the entire CRT and chassis.



Now you have an empty chassis.

Step #8) Remove the front plastic bezel. There are 2 different bezels between OSP 5000 and OSP 5020.

ORIGINAL CRT OSP 5000 ▶

OSP 5000, does not have the user controls in the Bezel. Unscrew the fasteners holding the bezel in place.

BEFORE



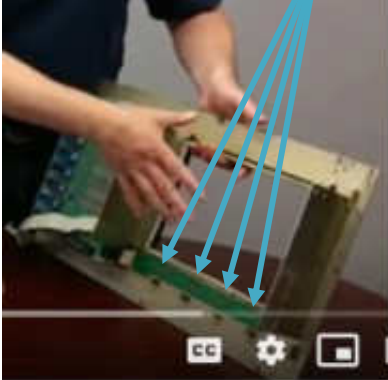
AFTER



ORIGINAL CRT OSP 5020 ▶

OSP 5020, has the user controls in the bezel. Unscrew the fasteners holding the user controls in place.

BEFORE



AFTER



INSTALLATION:

Step 9) Take the Monitech monitor out of the box depending on your application. OSP 5000 or OSP 5020.

▼ NEW MONITECH LCD ML121PN5000



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Step 10) Mount your Monitech Monitor at the front of your HMI where the front bezel was before removal. Use the MK2005 to mount OSP 5000 And MK2007 to mount OSP 5020.

Youtube video link for OSP 5000:

<https://www.youtube.com/watch?v=SADw4zjs6tc>

Youtube video link for OSP 5020:

https://www.youtube.com/watch?v=X_9umbBbJP0

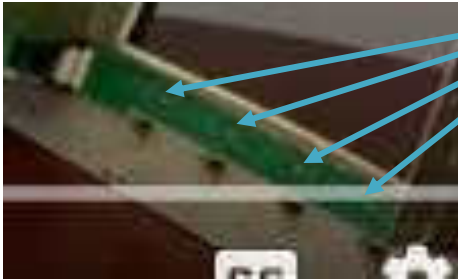
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Step 11) This step is just for OSP 5020. Mount the user controls with the hardware provided in MK2007. And place the stick where your F keys were.



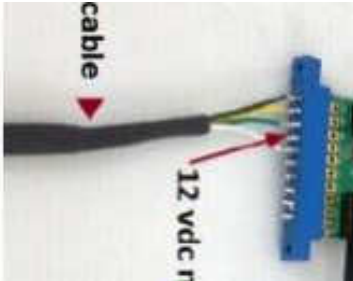
Use this hardware to mount the user controls.



Place sticker on top of the metal of your Monitech Monitor to represent the F Keys

Step 12) Determine what type of video connector you have. Monochrome (Edge Connector) or Color (20 Pin connector)

Edge Connector (Monochrome)



20 Pin Connector (Color)



For Edge Connector use the MCPB003 Install guide.

MCPB003 INSTALL GUIDE

MCPB003

SET UP FOR YOUR EDGE CONNECTOR

Jumper settings

MONITOR

VIDEO

TYPICAL SETUP

video cable

power cable

12 vdc r

MONITECH

How to set up your edge connector

MCPB003

ALTERNATE SETUP

video cable

12V power cable

machine cable

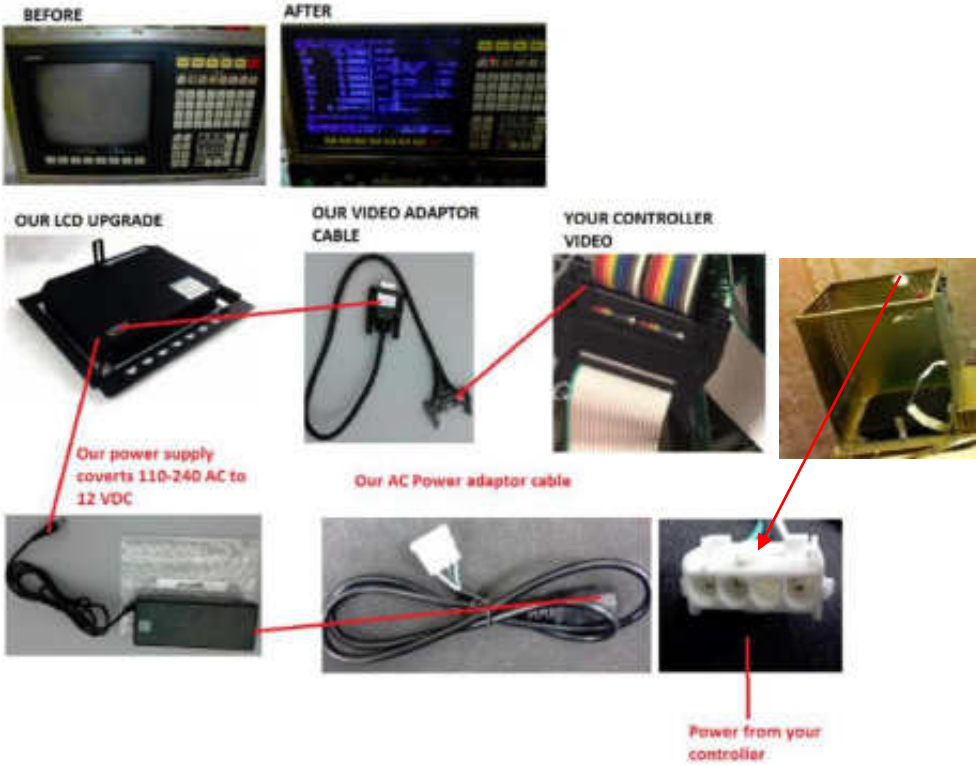
power supply

See over for typical setup

For Technical Support, Call
Take2 Electronics
1-877-493-6105
Support@MKSivitech.com

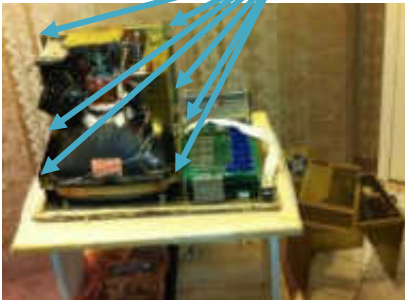
MONITECH
18 Howard Street, Cambridge, MA 02142
978-552-1000
www.monitech.com

For 20 Pin Connector use the MAV535, MAP305 & MAP307.



Step 13) Install CRT main housing. (7 screws).

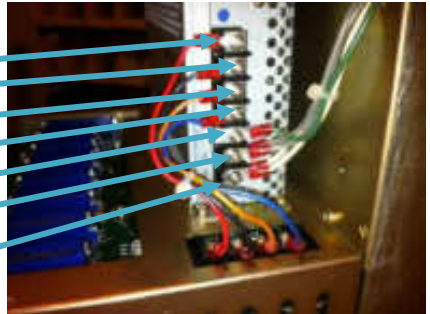
Fasten CRT main housing. (7 screws).



Step #14) Position Monitor Face Down and screw in the wire from the Power Supply: Install power supply by screwing in 4 screws.

1. +5 vdc
2. Common
3. V1
4. V2
5. Frame Ground
6. AC 1
7. AC 2

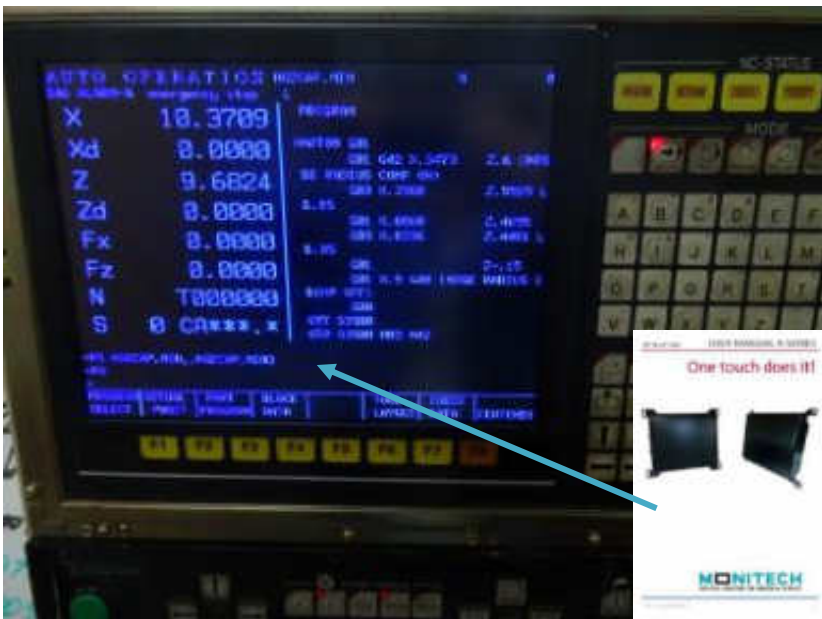
- Red Wire
- Black Wire
- Orange Wire
- Blue Wire
- Green Wire
- Gray (2 Wires)
- White (2 Wires)



Step #15) Before you put the HMI with your new Monitech Monitor back into your machine. Test & adjust the image. After mount back into your machine.

Testing it by Turning the Machine and Main Power.

Adjust by use the user guide.



Enjoy your rejuvenated Monitor.
Call us to order more replacement HMI parts.

Keep your OKUMA HMI's up and running!



ML121LL14JB-12.1" LCD
Upgrade for Okuma
CD14JBS with 14" CRT



ML080QTLB12S - LCD Upgrade
Kit for 9" Okuma LB12 Totoku
MDT-1005 CRT



MT700L-TOUCH
SCREEN FOR
Okuma OSP-700L



MP7000 - LCD Replacement for
Okuma OSP-7000L/OSP-700M
(DMF50260NFU-FW-7 OR -2)



MF004 -Overlay for
Okuma 5000 and 5020



MP3359 - LCD Panel for Okuma
OSP-E11L / OKUMA OSP-U20G

For Technical Support, Call
1-877-493-6105
Support@Monitech.com



20 Howard Place

Kitchener, Ontario N2K 4Z4

CANADA 519.725.222

www.monitech.com

Keep your AB PanelView's up and running!



Replacement: LCD's, Backlight's, Keypad's & Touchscreen's for the whole 550 line.



Replacement: LCD's, Backlight's, Keypad's & Touchscreen's for the whole 600 line.



Replacement: LCD's, Backlight's, Keypad's & Touchscreen's for the whole 900 line.



Replacement: LCD's, Backlight's, Keypad's & Touchscreen's for the whole 1000 line.



Replacement: CRT TO LCD CONVERSION's, Backlight's, Keypad's & Touchscreen's for the whole 1200 line.



Replacement: CRT TO LCD CONVERSION's, Backlight's, Keypad's & Touchscreen's for the whole 1400 line.