Upgraded Fagor 8025/8020

ML064CT8025S/8020

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.		

REMOVALE:

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

Step #2) Unscrew the screws around the boarder of the HMI. Unplug the communication cables and power. Take a Picture before unplugging any cables, so when you install the HMI back into your machine you will know where the cables attach.
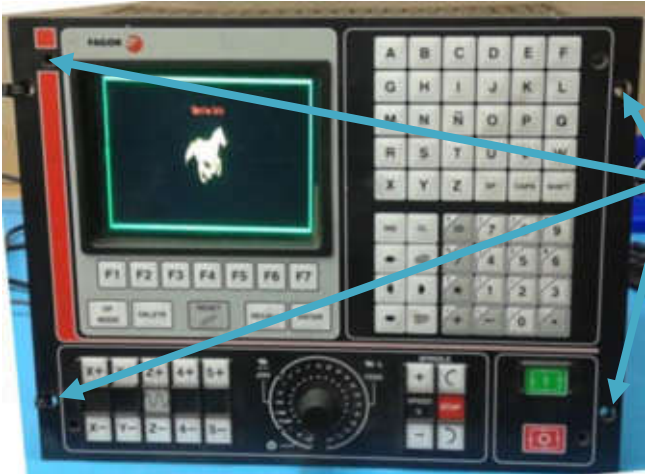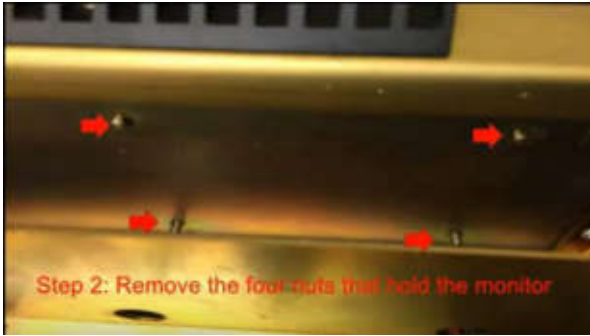

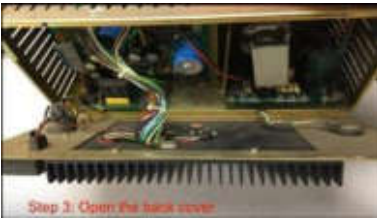Take the HMI off the machine by unscrewing each screws that board the interface.

Step #3) Remove I/O Card.

Step 1: Remove IO card
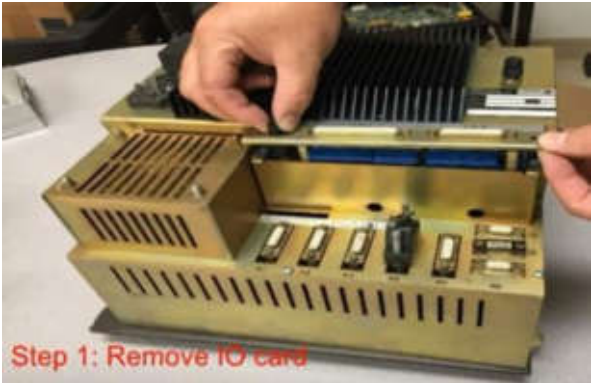
Step #4) Remove the 4 nuts that hold your CRT Monitor.

Step #5) Open the back cover & remove the power cable.

Step #6) Open the front cover by unscrewing the four screws holding in place.

Step #7) Unplug Video cable from the video card. Remove the video circuit board to give you access to remove the monitor.

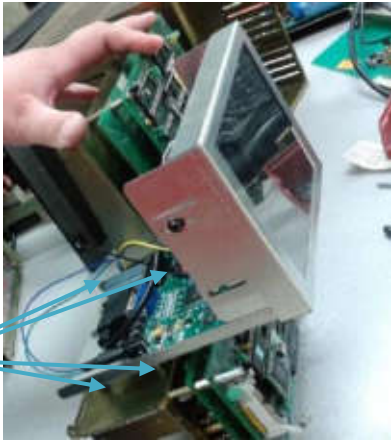Step #8) Remove the monitor out of the HMI.

INSTALLATION:

Step 9) Take the Monitech monitor out of the box and mount it on to the machine using the holes that was holding the CRT in place. Use the nuts that held the CRT in place to fasten to the Monitech Monitor.
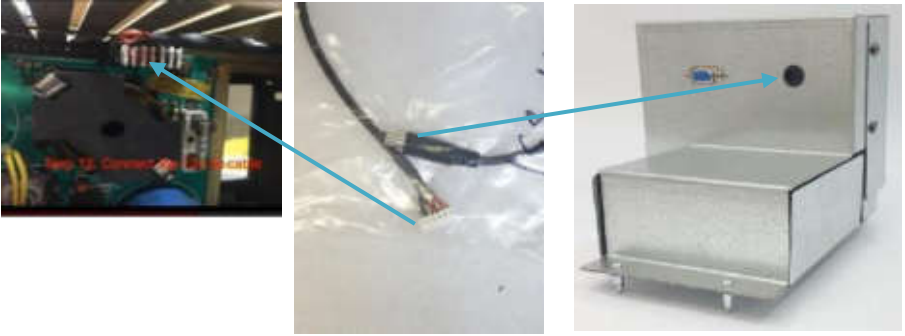

Fasten nuts here.

Our LCD Upgrade has 4 standoffs that match the holes previously holding the CRT in place.

Step 10) Depending your application, use the following 2 options to power up your Monitech Monitor.

Option #1) Try this method first. Connect the MAP331 to the power supply of the FAGOR 8025/8020.

Option #2) If option 1 does not work. Use MAP335. Cut & Strip both red wires and crimp to red butt connectors of MAV335. Screw in the ground wire as shown. Connect the black side of MAP335 into MAP307, then connect the power jack into your Monitech Monitor.
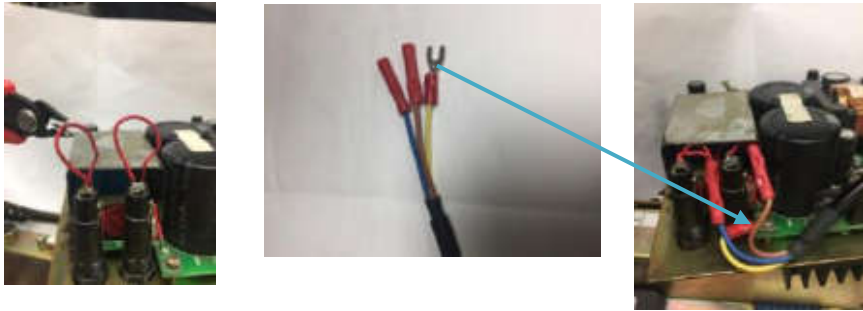
Step 11) Screw in the (green) ground wire to the Power Supply board of the Fagor in the location shown. Install power supply as shown in pictures.

Attach (green) ground wire to screw (shown in picture)
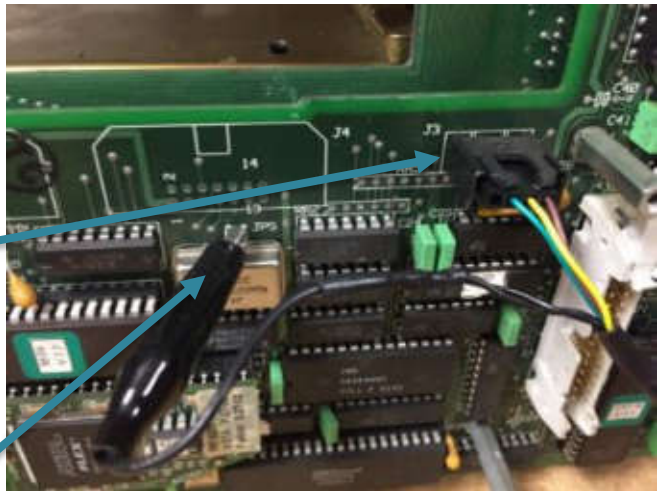
Install power supply as shown in pictures.

Step 12) Attach video cable (MAV116) and connect clip to ground terminal (JP5), or C13 or J6. Then Connect the VGA side of MAV116 into your Monitech Monitor.

MAV116

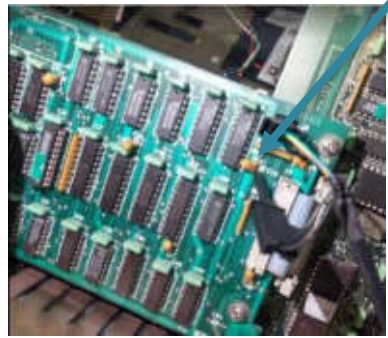Connect video cable here

Connect grounding clip to JP5

OR. Connect grounding clip to JP6
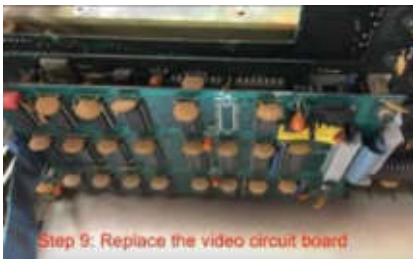

OR. Connect grounding clip to C13

Connect the VGA side of MAV116 into the your Monitech Monitor

Step 13) Reassemble the Unit. Put the I/O board back in. Attach the power supply back on the HMI. Fasten the video circuit board back on the HMI.

Step 14) Before you re attach the front cover and attach the Fagor HMI back into your machine. Test the unit by giving it power. Make adjustments the image using these options from your menu of the Monitech Monitor.

Make sure you have a video signal.

Once you have mounted your new Monitech LCD into your control panel with the video and power cables attached, the monitor will power up automatically. It should also start receiving the video signal from your machine. If you are getting no video signal, your screen will be blue. Make sure the video cable is secured or unplug and reinsert.
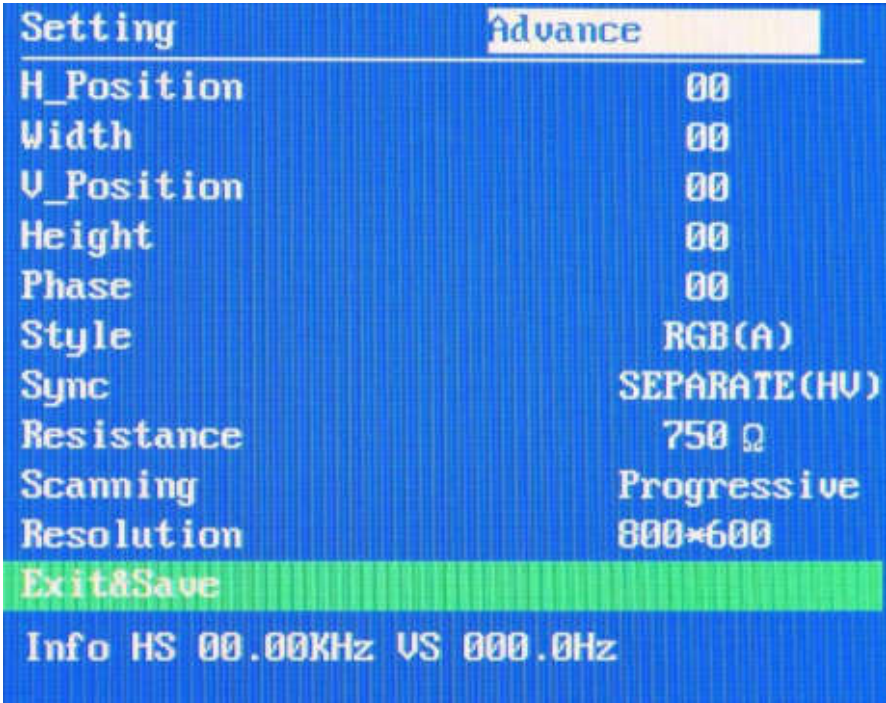
Press the MENU button.

Now that you have your video signal, use the 3 buttons on the back of the LCD to optimize the video for your specific machine. Press MENU to open the menu.

Press MENU again to select an item. When the item is selected, it will turn red. Press ◄ or ► to adjust values. Press MENU again to go back to the list and use the arrows to move up and down in the list. As long as you are getting a video signal, your settings will be automatically saved.

When you press MENU, you will see this:

Setting	Advance
H_Position	00
Width	00
V_Position	00
Height	00
Phase	00
Style	RGB(A)
Sync	SEPARATE(HV)
Resistance	750 Ω
Scanning	Progressive
Resolution	800*600
Exit&Save	
Info HS 00.00KHz VS 000.0Hz	

The picture shows the default values for each item. The bottom line (Info) shows specific values for your machine's video signals. NOTE: If the Info values show 00.00, there is no video signal. Again, verify that the video cable is secured before you do anything else.

Fine-tune your video image.

To size your video image, focus on the first five items.

WIDTH

This is a very useful setting: use it to adjust the width of the video on your screen. Use it as well to eliminate vertical lines. The range is -99 to +99.

HEIGHT

The height defaults to 00 and the range is 00 to +99.

H POSITION (HORIZONTAL)

The default value is 00. The range is -99 to +99.

V POSITION (VERTICAL)

Defaults to 00. The range is 00 to +99.

PHASE

After you use the WIDTH setting, some vertical lines may still be present. Use this setting to eliminate them entirely.

STYLE

RGB (A) is the default. If you are using this LCD as a monochrome and want a black and white screen instead of green, change the style to YUV. RGB (D) is also available.
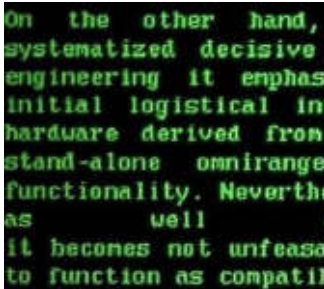
SYNC

This setting automatically detects what you are using. You can adjust to Separate (UV), Composite (S) or SOG (sync-on-green).

RESISTANCE

750 Ω is the default. If your video is saturated or text is "blooming" like the image on the left, change it to 75 Ω.
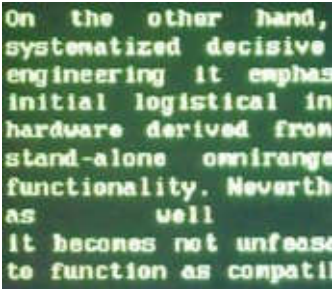
BEFORE   AFTER

SCANNING

Defaults to Progressive and rarely needs adjustment.

RESOLUTION

Defaults to 800x600. If the video still won't fit on the screen after adjusting the WIDTH setting, change the resolution to 640x480.

EXIT + SAVE

The menu will exit and save automatically after 20 seconds. If you are in a hurry, you can select this item manually.

Tips to optimize your image

My screen is blue.
This means the LCD is getting no video signal from the machine. Reseat the video connector and secure it.

I cannot see a right or left edge of the image.
Select WIDTH and adjust down until you can see the right edge of your video. Now you can adjust the whole screen until you see what you need to see.

Troubleshooting Section

⚠ **ADJUSTMENT SET AT FACTORY** ⚠

Adjust **ONLY** if the following
2 symptoms are present (see pictures)

① Top left - image is tearing

① Horizontal Adjustment

Horizontal adjust has been set at the factory.
Sometimes a slight adjustment is require.

Turn the VR slowly **CW** first it the image improves
you are going the correct direction.
If you see blue screen or the image degrades turn
the opposite way **CCW**

② Double or blurry image

② Vertical Adjustment

Vertical adjust has been set at the factory.
Sometimes a slight adjustment is require.

Turn the VR slowly **CW** first it the image is improving
you are going the correct direction.
If you see blue screen or the image degrades turn
the opposite way **CCW**

Small slot screw driver

OOPS!

Reset to Default

① **Horizontal Default Settings** — CW until you here a click then CCW - 3 turns

② **Vertical Default Settings** — CW until you here a click then CCW - 16.5 turns

REFER TO OUR YOUTUBE PAGE:

https://www.youtube.com/watch?v=Le6C6JMmAwY
https://www.youtube.com/watch?v=iGN_5DyHr0U

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

Keep your FAGOR's up and running!

ML121LL8050-12.1" LCD Upgrade for Fagor 8050 with 14" CRT

ML104QT8050 for 12" Fagor 8050M Motion Master VGA

ML080QT8050 - 10" Fagor 8050 CRT

ML121LL8035-12.1" LCD Upgrade for Fagor 8035 with 14" CRT

ML121LL8030-12.1" LCD Upgrade for Fagor 8030 with 14" CRT

ML080QT8055 - 9" Fagor 8055 CRT

For Technical Support, Call
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