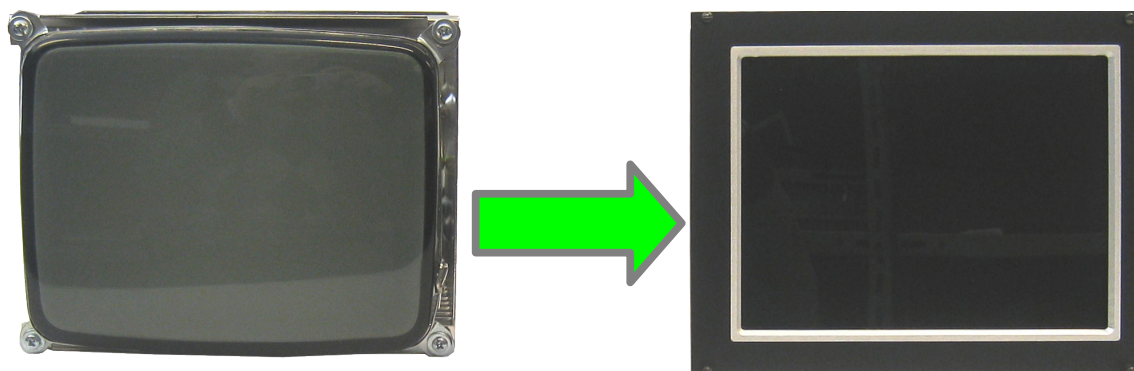


UDICOM KS100

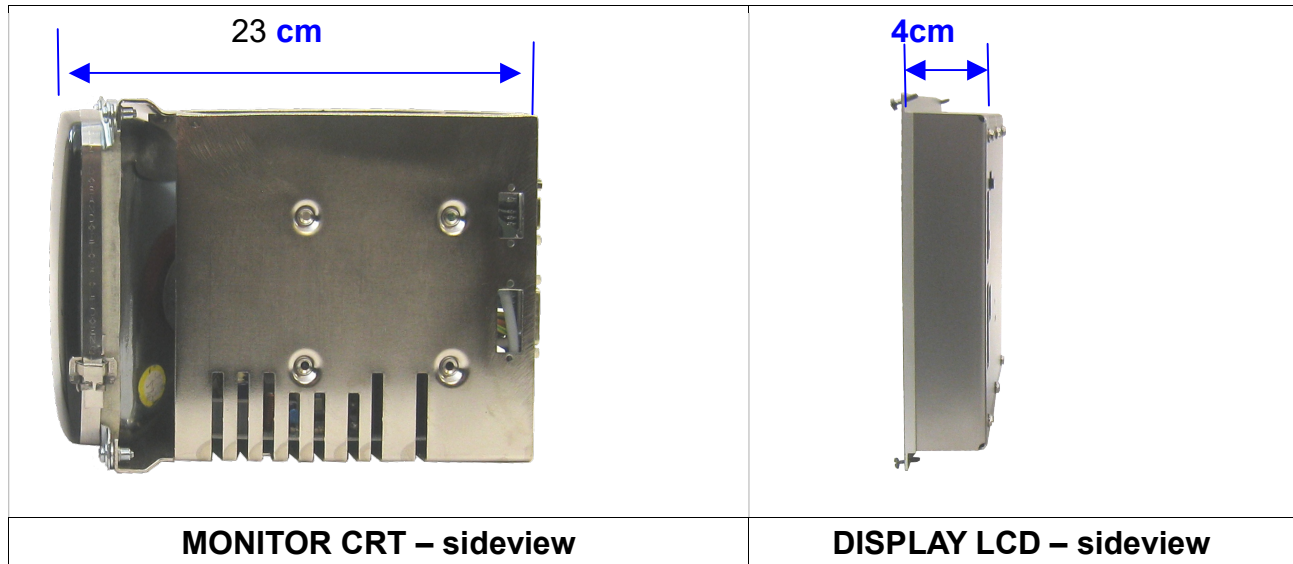
MONITOR CRT – 8 INCH LCD MONITOR

REPLACEMENT PROCEDURE



1E	20/07/21	Preliminare		
REV.	DATA	DESCRIPTION	DRAWN UP	APPROVED

In the event of failure, malfunction or degradation of the electronic or mechanical components of the 9-inch CRT monitor assembled in the KS100 series equipment, UDICOM makes the new 8.4-inch LCD display available for replacement.



The LCD Display, in addition to guaranteeing total compatibility with all KS100 devices, guarantees a smaller footprint, lower weight and reduced consumption, as well as allowing color display (always in monochrome), as seen in the figures below

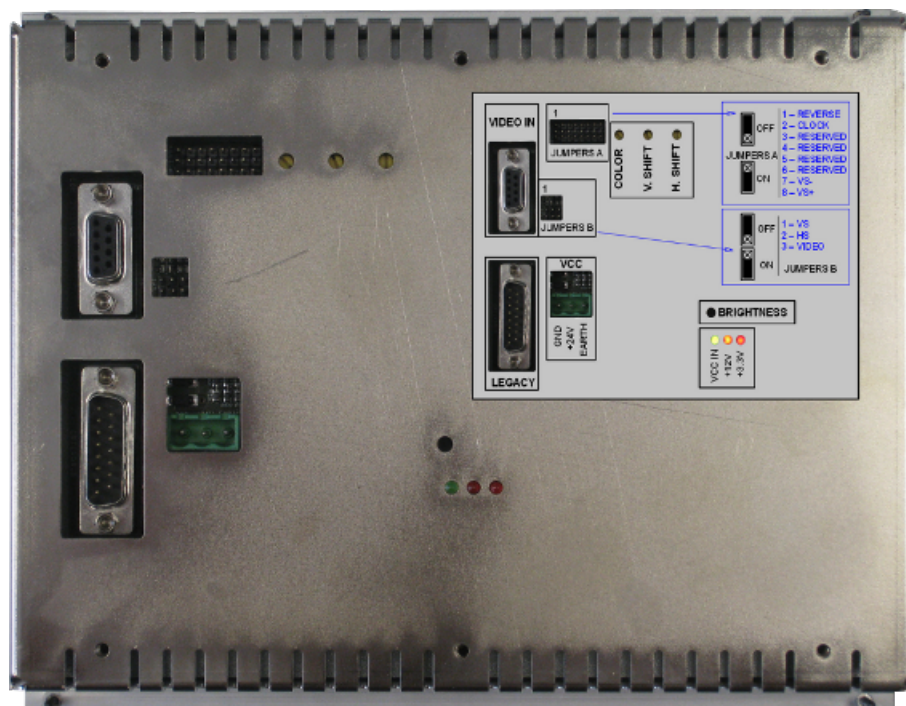


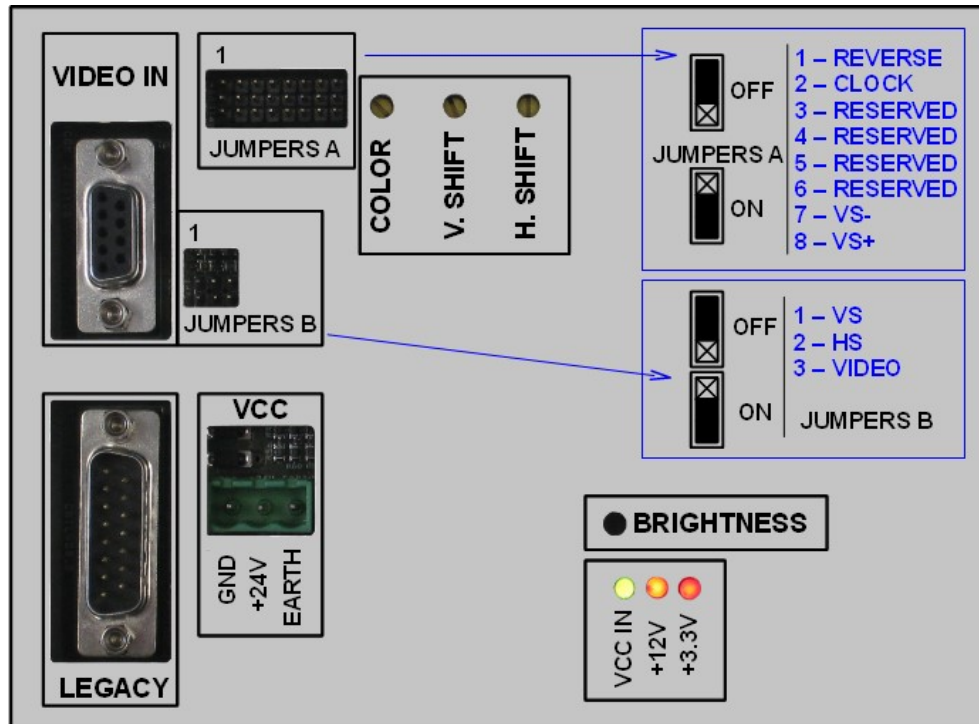
2. Characteristics of the LCD display

The technical characteristics of the LCD display are indicated in the following table

Resolution.....	800x600
Diagonal.....	8,4 inches
Size.....	213mm x 172 mm x 40mm
Colors.....	4 (monochrome)
Supply.....	+24Vcc
Consumption.....	300mA

The figure below shows the rear side of the Display with the connectors, monitoring LEDs, jumpers and potentiometers for adjustments





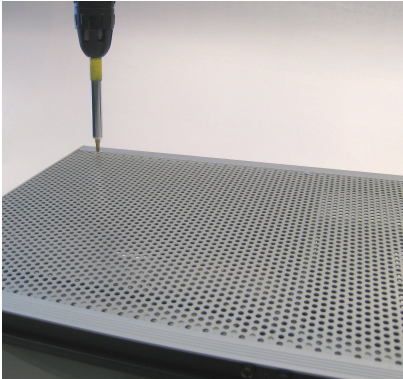
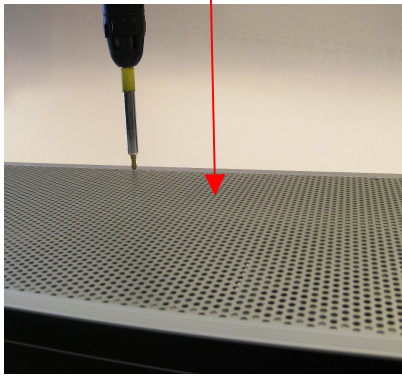
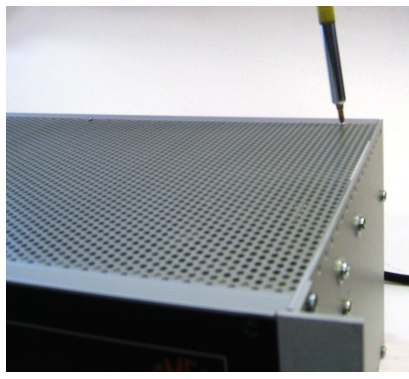
By manipulating the three rotary selectors located on the back of the display, users can, with the special screwdriver provided, adjust the image's centering on the display (V.SHIFT & H.SHIFT) and to choose the color (COLOR) (monochromatic) of the display itself.

The "A" jumpers activate the REVERSE of the image and enables adjustment free from unwanted flickering of the image itself. Jumpers "B", when in "ON" position, serve to "terminate" the three signals (VS-HS-VIDEO) with an adequate resistive load (generally, they should be left open).

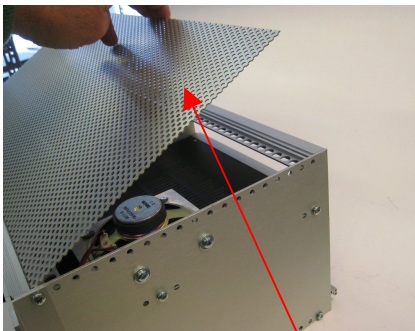
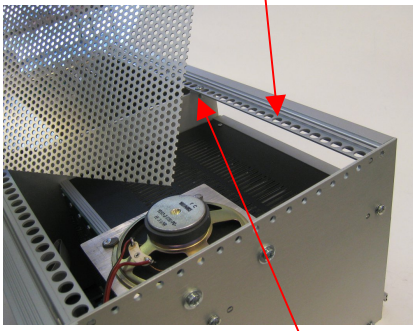
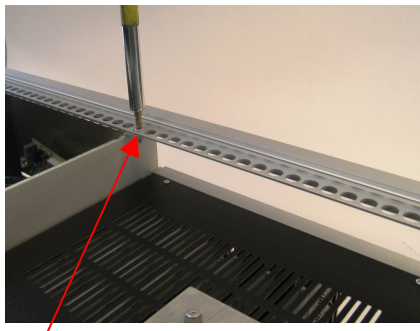


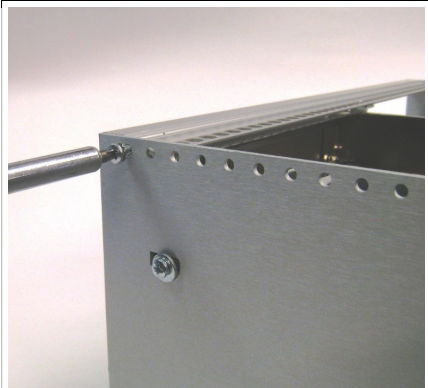
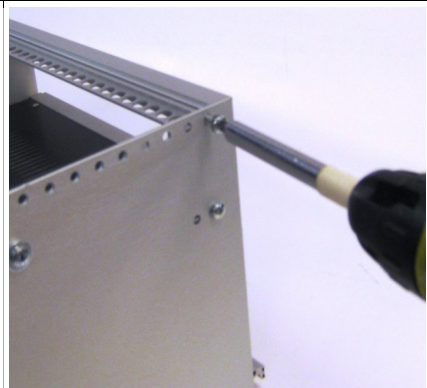
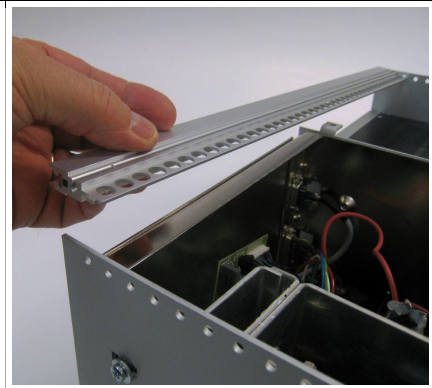
3. Replacement procedure3.1 CRT Monitor Removing

Unscrew the three screws that secure the top panel of the KS100 RACK.

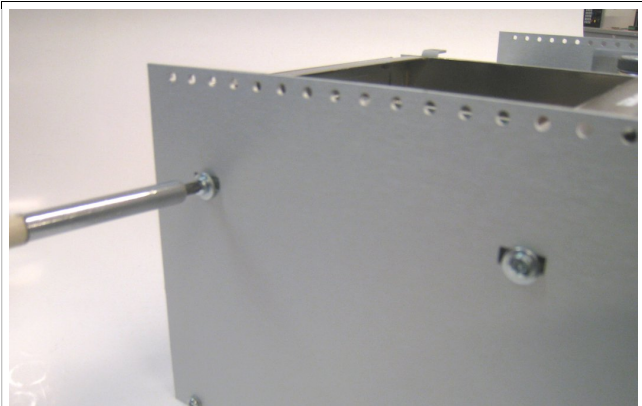
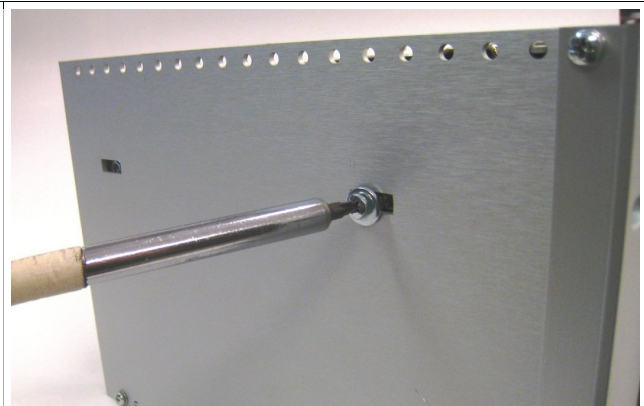
	Top panel (perforated lid)	
		
Top panel screw 1	Top panel screw 2	Top panel screw 3

Remove the top panel and unscrew the three fixing screws of the top panel support bar (upper rear extrusion), temporarily removing it. Two of the screws are secured by the side panels.

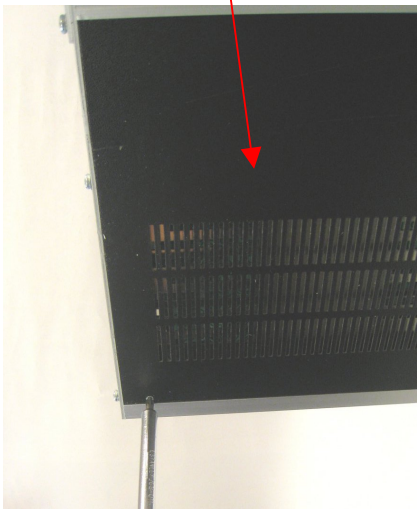
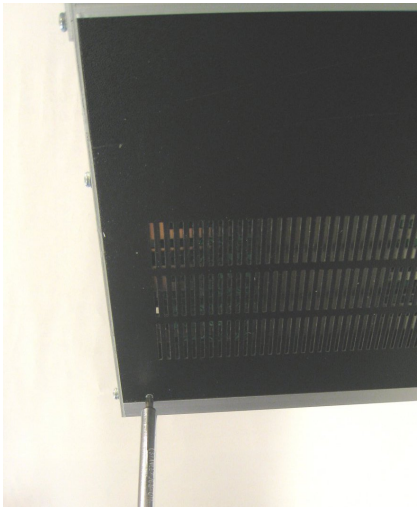
	Support bar (upper rear extrusion)	
		
Lift the panel	Fixing screw	Unscrew screw 1 of the bar

Left side panel (side panel)	Right side panel (side panel)	
		
Unscrew screw 2 of the bar	Unscrew screw 3 of the bar	Remove the bar

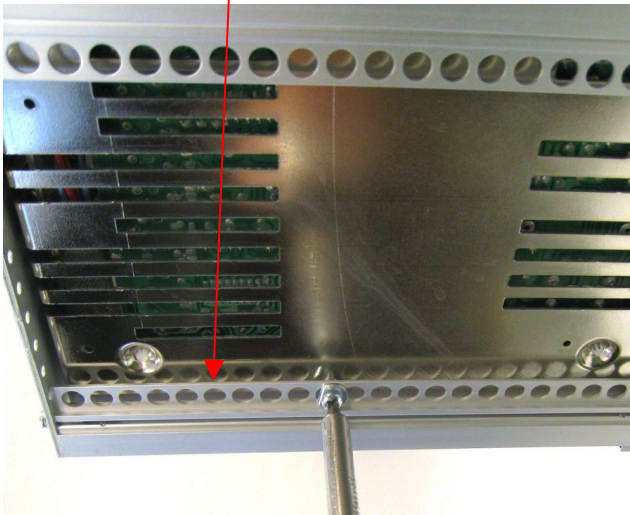
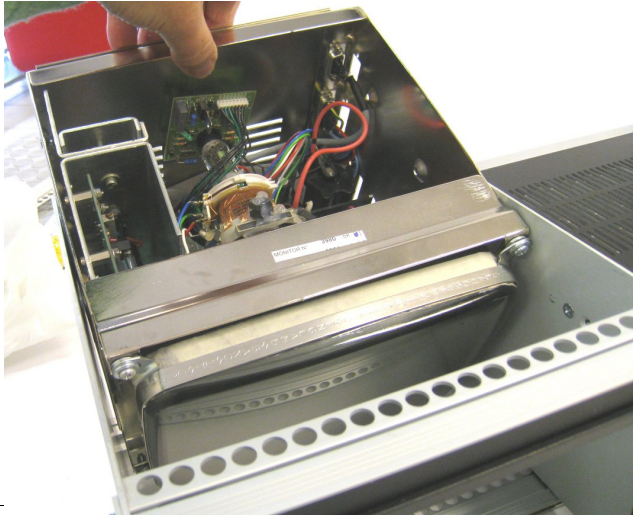
Remove the screws that hold the CRT Monitor on the side panel (no longer needed)

	
Unscrew screw 1 side panel	Unscrew screw 2 side panel

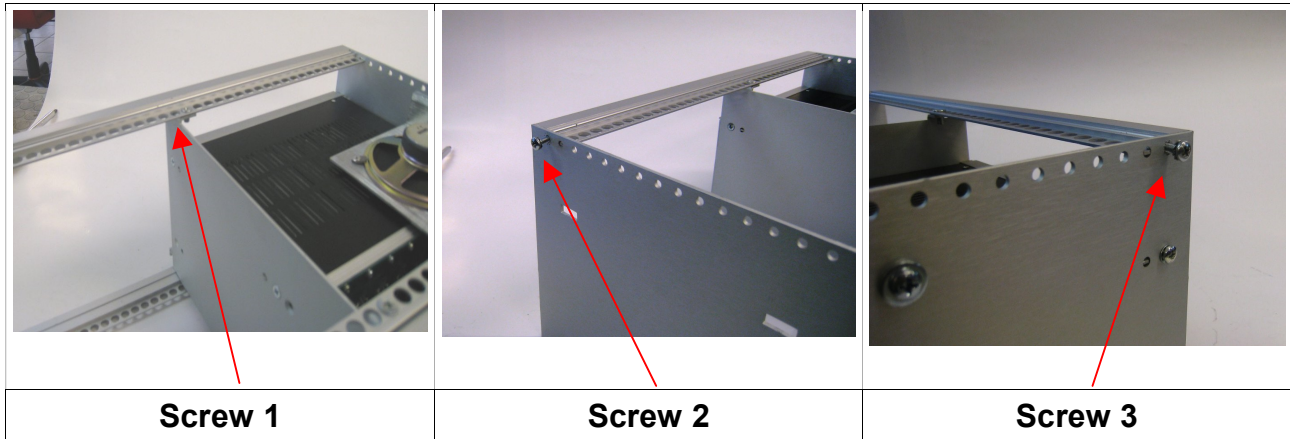
Remove the bottom panel at the base of the RACK (basket) by unscrewing the three support screws

Bottom panel (bottom cover)		
		
Screw 1 bottom panel	Screw 2 bottom panel	Screw 3 bottom panel

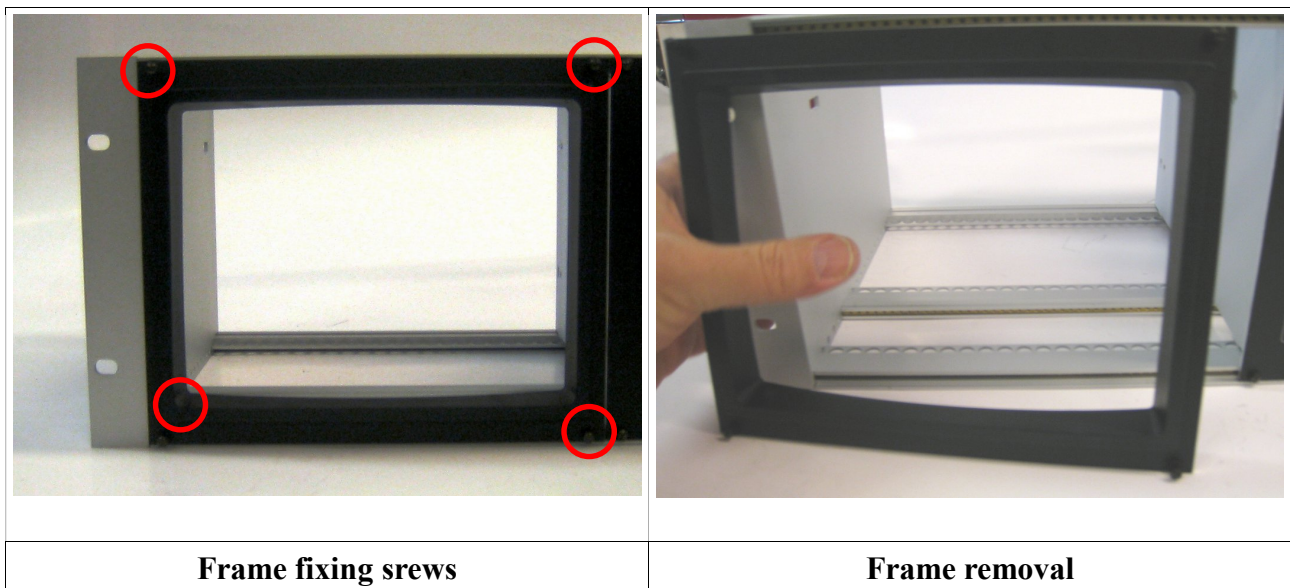
Once the bottom panel has been removed, remove the last screw that holds the CRT monitor (figure below). At this point the monitor is free and can be removed from the drawer. Reassemble the bottom panel in its original position

Lower rear bar	...can be removed from the drawer
	
Unscrew the fixing screw	Remove CRT monitor

Reassemble the rear upright with the three screws, making sure to use the toothed washers, as indicated in the figures below

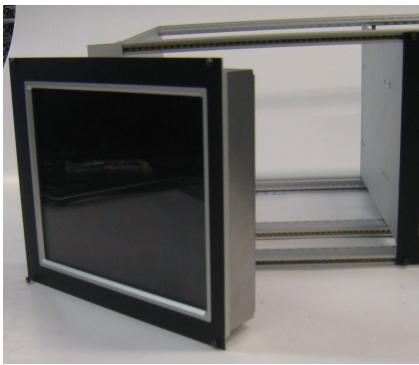


Discard the fixing screws of the frame of the CRT monitor and remove its frame



3.2 Assembling the LCD Display

Prepare the LCD Display for installation by inserting the fixing screws. Place the display in the housing (the same as the CRT Monitor). Attach the screws to the RACK bars.

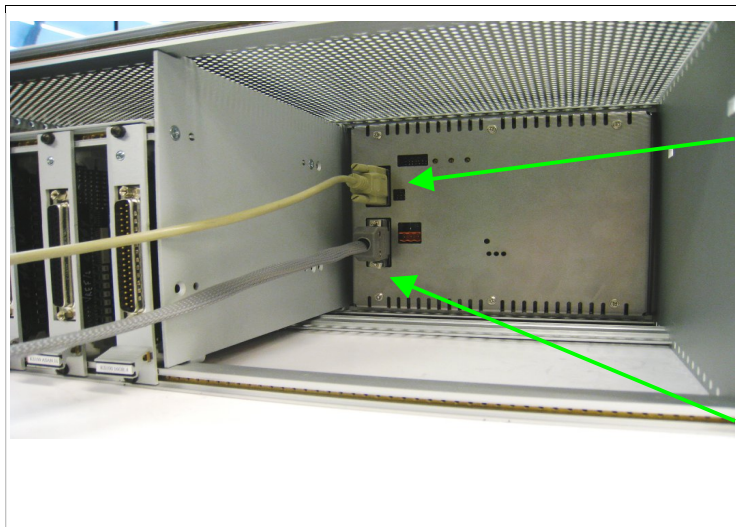
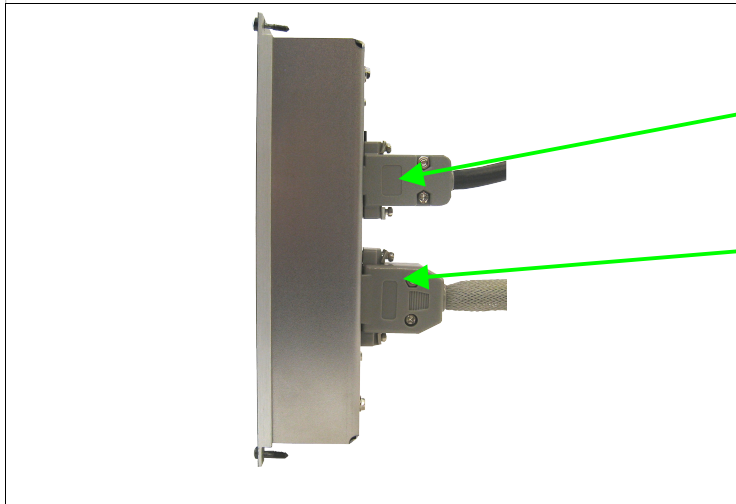
		
Insert the fixing screws	Position the LCD display	Screw the display to the case

Close the RACK by reassembling the lower panel. KS100 should now look like in the figure.



Connecting the LCD Display to the KS100

Connect the power and signal cables that were originally intended for the CRT monitor to the LCD Display, following the diagram in the figures below

	DB9 connector (optional extension cable supplied with the LCD panel) - Video signal DB15 connector - Power supply
	DB9 connector – Video signal DB15 connector – Power supply

Once the power and video signal are connected, the device will be ready for use

ATTENTION:

As this LCD display is made for the sole use of replacement of the Ks100 series cathode ray tube monitors, it must be powered (both video signal and voltage) **with the same** connection cables previously present (which were connected to the cathode ray tube monitor), In particular, do not power the LCD panel with the same voltage used for the basket that includes the cards, otherwise the LCD panel itself **will burn**. The two voltages, the one related to the boards and the one of the LCD panel, must be **ABSOLUTELY GALVANICALLY SEPARATED**.

