## Technical Bulletin- Blank Lower Operational Screen (LED backlight screen)

Applies to the following SQA systems: ALL SQA (SQA-, SQA-V / SQA-V PRO and QwikCheck GOLD)

Issue date: Nov 10, 2022

Proble	em description: The lower, operational screen	of the SQA is blank, but lit OR it displays black lines on a yellow background.				
Proced	dure					
STEP 1	:					
1.						
2. 3.	If the software is successfully installed and the					
5.	If the software was not installed successfully based on: a. <b>ACK error:</b> This is a FLASH MEMORY failure. An MBOB should be performed or the SQA must be sent back to					
	MES LTD for repair as an RMA.					
		tion failure between the SQA and the PC. Verify the SQA is connected to				
	the correct COM port on your PC and also that the COM port is defined properly.					
c. <u>If the port is functioning</u> : Press the SERVICE button while sequentially switching the device on and to install the software again. If the installation fails again –go to <b>Step 2</b> .						
CTED 2						
STEP 2: 1.	: Download and run the "blank fix utility"					
1.	according to the instructions on Appendix 4					
	of this document					
2.	In order to access the download area on MES					
	website:					
	Username: misuser Password: sga260					
3.	If the problem persists go to <b>Step 3.</b>					
STEP 3	STEP 3.1 – for SQA-Vision starting SN# 5229,					
	/ SQA-V PRO starting SN# 2229 and					
	heck GOLD starting SN# G0381:					
1.	Make sure the SQA is turned off and					
	disconnected from any source of electricity.					
2.	Open the SQA.					
3.	Verify that the harness that connects the					
5.	user screen and the main board is in the					
	correct position and is properly connected	MB side LCD screen side				
	(see figure 1).					
	NOTE the alignment of the RED line on the					
	flat cable					
4.	If the problem persists go to <b>Step 4</b> .	- HES Ltd. uuu.msrgjobal.com				
		Backlight PCB				
		Figure 1: Verify the flat cable is properly connected				





STEP 3.2 – for all other SNs:		Note the alignment of the red line on the cable		
5.	Make sure the SQA is turned off and disconnected from any source of electricity.			
6.	Open the SQA.			
7.	Verify that the harness that connects the user screen and the main board is in the correct position and is properly connected (see Figure 2).			
8.	If the problem persists go to Step 4.			
		MB side LCD screen side		
		Figure <b>2</b> : Verify the flat cable is properly connected		
STEP 4:				
1.	Verify the harness connecting the main board to the PC is properly connected (RS232 cable).	J5 connector		
2.	Tighten the harness connector at location J5 on the main board (see Figure ).			
3.	If the problem persists go to <b>Step 5</b> .	Figure 3: J5 connector on the main board		
STEP 5	:			
1.	Verify the Main board processor is positioned a	according to the instructions in Appendix 1 of this bulletin.		
2.	Replace the processor if the problem persists.			
3.	If the screen is still blank after replacing the pro-	ocessor- go to <b>Step 6</b> .		
STEP 6	:			
1.	Replace the LCD operational screen according to	the instructions in Appendix 2 or 3 of this bulletin.		
2.	If the problem persists with the new screen – r	perform an MBOB replacement OR send the SQA back to the		

2. If the problem persists with the new screen – perform an MBOB replacement OR send the SQA back to the manufacturer (MES) for a repair RMA.





### Appendix 1: Instructions for RE-SEATING or REPLACING the SQA PROCESSOR

	••					
<b>Sta</b> 1. 2.	ge 1: Re-seating the processor to the correct position: Turn off the SQA and disconnect the power supply cable. Remove the 4 screws on the rear panel using a Philips screw driver #2 (Fig.1) and open the SQA (Fig.2)	Fig. 1-2: Open the SQA				
3.	Slightly press the center of the processor with an index finger to re-seat it into the correct position. (Fig. 3).	Figure 3: Apply downward pressure to the processor				
4.	Close the SQA and replace the 4 Phillips screws on the rear Pane	si				
5.						
6.						
7.						
8.	If the SQA does not turn-on or fails the self- test, go to stage 2.					
Ct o						
1.	ge 2: Replace the damaged processor:					
Ζ.	2. Release the 4 screws on the rear panel using a Philips screw driver #2 and open the SQA.					
3.	Remove the damaged processor using tweezers as shown (see Fig.5).	Fig. 5: Remove the damaged processor				
4.	<ul> <li>Replace the old processor with a new processor according to the following directions (*):</li> <li>Align the "dot" which is marked on the processor with the "Arrow" mark in the processor cavity (see Fig. 6-7).</li> <li>Slightly press the center of the processor with an index finger</li> </ul>	Dot mark on the processor				
	to re-seat it into the correct position (Fig. 3 above).	Fig. 6-7: Align the processor in the cavity correctly				
5. 6.	Close the unit and screwing in the 4 Phillips screws on the rear F Connect the power cable, turn on the SQA and verify that it pass					

(\*) Note: The correct processor type MUST be used as follows:

Processor version 1.1- SQA-V non- I- button devices

Processor version 1.2- SQA-V with- I- button devices

Processor version 1.3- SQA-V PRO and QwikCheck GOLD Processor version 1.5- SQA-Vision





**Appendix 2: Instructions for replacing the LCD operational screen for** SQA-Vision starting SN# 5229, SQA-V / SQA-V PRO starting SN# 2229 and QwikCheck GOLD starting SN# G0381

# SQA-VISION Service Manual Version 109.13.3

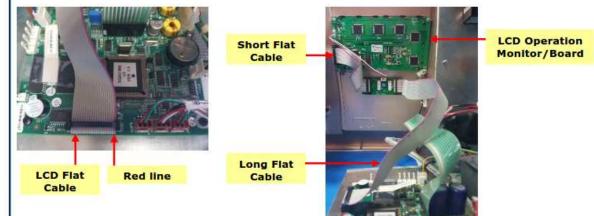
	Operation Monitor - Lower LCD Screen (Part# LC	(D-0009)	
Operation Monitor	<b>ISSUE #1:</b> The SQA-VISION is ON, both power indic working. But the lower LCD screen (Operation Monito displayed on the screen.		
	Open the SQA-VISION.		
OTE: urn off the power upply to the SQA- ISION and sconnect the	<ul> <li>Turn on the SQA-VISION and check that the LCD Screen is lit. If not, check the input and output cables of the Backlight PCB: verify that the cables are well connected and not loose.</li> </ul>	Data Cables	LCD Screen
ower supply cable om the back of ne device before pening the SQA- ISION.	<ul> <li>If the power supply is OK and the screen doesn't light up, replace the long flat cable connects the main board and the Backlight PCB. (Item #KHD-908-000858)</li> </ul>		
	<ul> <li>If after you change the long flat cable, the screen doesn't light up, replace the Backlight PCB (Item#V-B-01410-00):         <ul> <li>Turn the SQA-VISION off and disconnect the cables connecting the Backlight PCB to the main board and LCD screen.</li> </ul> </li> </ul>		
TER checking LCD backlight,	<ul> <li>Using a Phillips screwdriver, remove the two screws that secure the old Backlight PCB.</li> </ul>	Power Cable	Backlight PCE
n off the A-VISION and connect it from	<ul> <li>Replace the Backlight PCB with a new one and secure it with the two screws.</li> </ul>		
e main.	<ul> <li>Re-connect the cables of the Backlight PCB.</li> </ul>		
	<ul> <li>If the problem persists, contact MES Customer Support.</li> </ul>		





**ISSUE #2- Blank Screen:** There is no data displayed on the screen in spite of the fact that the SQA-VISION is ON, both power indicators are functioning and the fan is working.

- Re-install SQA-VISION software.
- If the software was not installed successfully- please refer to the technical bulletin in the appendix section for further instructions
- If the software was installed successfully and the problem remains- check the LCD flat cable:
  - MB side: Open the SQA-VISION and verify that the LCD flat cable is oriented with the red lined side toward J1 connector (as shown in the picture below).
  - Replace the long flat cable which connects the main board and the Backlight PCB. (Item #KHD-908-000858)
  - If replacing the long flat cable does not work Replace the short flat cable which connects the LCD screen and the Backlight PCB. (Item#V-H-01411-00)
  - If replacing the short flat cable does not work Replace backlight PCB. (Item#V-B-01410-00)



Note: for more detailed explanations regarding blank screen issues, please refer to the "blank screen technical bulletin" in the appendix section

WARNING:

burned!

The two ends of the flat cable must

be connected in

the same way at each of the hubs

or the LCD may be

- If replacing the backlight PCB does not work- replace the processor on the main board (see Appendix section for instructions).
- If replacing the processor does not work:
- Re-start the SQA-VISION and see if the LCD operational screen is still blank. If yes, replace the screen:
  - Disconnect the operational display data and power cable note the four screws.
  - Replace the screen & reconnect the data and power cables.
- In case the problem persists after replacing the LCD screen- contact MES Customer Support.



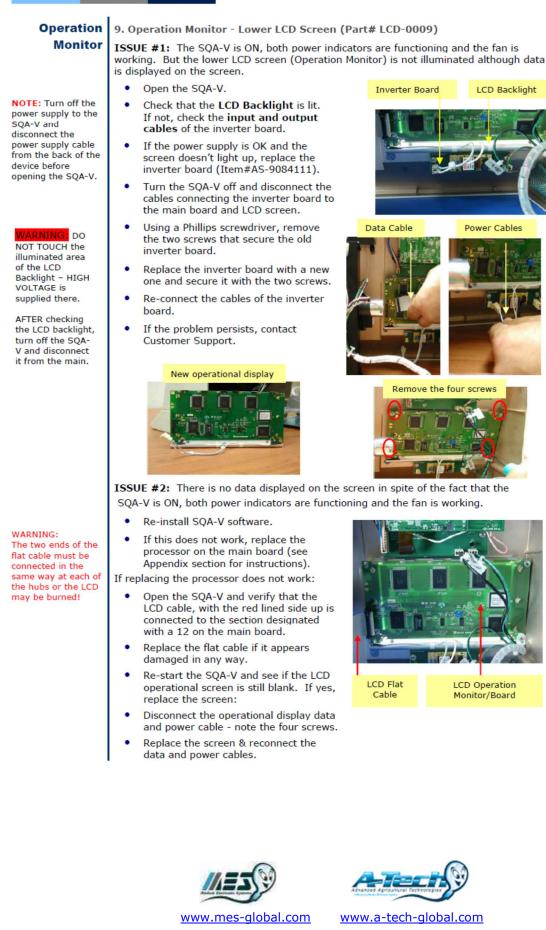




File Name: Tech Bulletin\_SQA\_Blank screen

#### Appendix 3: Instructions for replacing the LCD operational screen (for all other SQA SNs)

SQA-V and SQA-V Service Manual 17\_MAY\_2010



### Appendix 4: Blank Fix utility installation guide

## Background

This utility was created to fix blank screen bug in SQA devices which happen after the device is Turned ON. Cleaning the archive was found as work around solution for this blank screen issue and this utility do so.

### **Working Process**

- Connect the SQA-V to PC using RS-232 cable.
- Click on the following link to download the Blank Screen Utility – <u>Blank Fix Utility 153.0.0 11.02.2018.zip</u>
- Unzip the downloaded file and Double click on BlankFix153.0.0.EXE file.
- Allow the short installation to begin by click the next button.
- MES download program window will pop up. Make sure that your communication port is correct.
- Check the communication port by running Window's Device Manager.
  - Disconnect and reconnect the RS-232 cable and see which port is added (image 1).
- Turn the SQA unit OFF (at the rear panel).
- Turn the SQA unit ON while SERVICE key is simultaneously pressed.
- Enter "fertility" in password textbox and click START (PC).
- Cleaning process will begin and when it completed successfully close the window.
- Turn off the SQA and then turn it ON. The SQA should work properly.

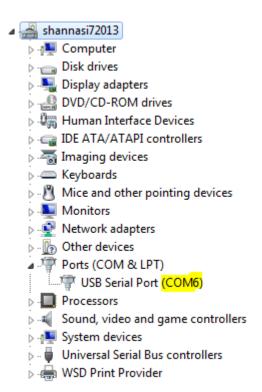


Image 1



