

	Doc or ECO #:	ECO-70218-003	Date:	6/13/2022	Author: JV	
	Rev. #:	01				
Engineering Change Order (ECO)	Engineering Approval:	aeg	Date:	08/01/2022	Quality Approval	aeg

P/N #:	70218 / 71095	Effective Date:	June 15, 2022
Title:	Internal computer EOL / Aux power adjusted to 24V		

1.0 Purpose / Summary

The computer used within the ICB, ML100G-31, has gone EOL. A very similar replacement has been chosen, this is an updated model of the same computer, ML100-52. Some retention had to be modified to work. Additionally, some USBL systems were found to have issues on the accessory 12v power, so an additional module for 24V was added. The auxiliary power jacks were adjusted to 24V.

2.0 Parts Affected

Part Number	Notes	Removed	Added	Modified	REV
70218	Rev cycle OCC top tier	☐	☐	☒	J
71095	Rev cycle Panel top tier	☐	☐	☒	K
71636	Old computer	☒	☐	☐	-
73782	New computer model ML100G-52	☐	☒	☐	A
71643	Updated to suite, lengthened and heightened	☐	☐	☒	C
71710	USB cutout made elliptical	☐	☐	☒	E
71644	Lengthened and redesigned	☐	☐	☒	C
71664	Removed, computer uses barrel power cable	☒	☐	☐	-
70683	Added additional XG4	☐	☐	☒	B
71357	Distribution board updated for 24v module	☐	☐	☒	B
72431	Added a DP to HDMI converter	☐	☒	☐	A
70971	Defender ICB panel cover	☐	☐	☒	B
70217	Panel plate rev for proper chamfers	☐	☐	☒	D
71721	Removed from ICB panel Bom, now integral to 71357	☒	☐	☐	-
72251	Removed from bom and hardware kits	☒	☐	☐	-
72434	Replacement for 72251 ¼" longer	☐	☒	☐	A
73892	Würth CONN RCPT HSG 4POS 3.00MM	☐	☒	☐	A
73891	Würth CONN SOCKET 20-24AWG CRIMP PIN	☐	☒	☐	A
73441	5 pin Molex connector for LIM harness	☐	☒	☐	A

	Doc or ECO #:	ECO-70218-003	Date:	6/13/2022	Author: JV	
	Rev. #:	01				
Engineering Change Order (ECO)	Engineering Approval:	aeg	Date:	08/01/2022	Quality Approval	aeg

3.0 Detail

The MI100G-31 is EOL, logic supply has a direct replacement the ML100-52. Locations and design of cable retention had to be updated to suite the new computer. The new computer only has 1 HDMI port and 2 display ports. To compensate for this change, an DisplayPort to HDMI adapter will be used internal to the panel.

Additionally, some USBL systems were found to have issues on 12v, even though meeting spec. In the past these had been deemed non-conforming and returned to the supplier. However, last order yield was 0%. We have added an additional power module and made the auxiliary power jacks 24V now. The Power supply distribution PCB had to be updated for the additional power module. These boards are backwards compatible and could be used on repaired older systems.

There has been nothing added or removed from the BOM of 70218, all modifications were done to the panel BOM 71095. However, BOTH assemblies were incremented rev to track the change.

Last Serial Number of 70218 Rev I M2022171

First serial number of 70218 Rev J M2022172

MSS build was also updated to EOD 3.2.00-52G

4.0 Disposition of Material

72431 should be added to inventory

All old stock of 71636 should be used to completion

All current stock of 71710 should be reworked to the newest rev

Old stock of 71644 and 71643 should be removed from inventory

71664 should be removed from inventory entirely

71357 rev A should be removed from inventory

All rev A should be reworked to include the new power module.

Repairs do not need to be upgraded unless there is an issue with a USBL.

In that case 24V module and new panel overlay decal should be added.

	Doc or ECO #:	ECO-70218-003	Date:	6/13/2022	Author: JV	
	Rev. #:	01				
Engineering Change Order (ECO)	Engineering Approval:	aeg	Date:	08/01/2022	Quality Approval	aeg

5.0 Action Items

Action	Department	Acknowledgement Initials
Epicor update	ENG	JV
Rework old stock 71710	ENG	JV
Communicate rev change with Arrow for 71636	Purchasing	JB / RM

6.0 Modified / Referenced Documents:

Document	Current Revision
70218 - MSS ICB Assembly Instructions	J
QC-70218	K
WI-QC-70218	K
Update Brady Serial Number Labels	J
WI-Videoray Iso installation	A

7.0 Revision History

Date Revised (mm-dd-yyyy)	Location of Change (section, paragraph no., step no., etc.)	Description of Change Made	Name of Person making the Change
6/13/2022		Initial creation	JV
6/30/2022		Improvements, added qc sheet revs	JV
7/7/2022		Added new computer pn and updated iso instructions	JV