

	Doc or ECO #:	ECO-71095-003	Date:	7/18/2019	Author:	JMV
	Rev. #:	A				
Engineering Change Order (ECO)	Engineering Approval:	Aeg	Date:	11/18/2019	Quality Approval	DO

P/N #:	71095	Effective Date:	November 18, 2019
Title:	MSS ICB PANEL “Navy Revisions”		

1.0 Purpose / Summary

The purpose of this ECO is to add additional features to the MSS ICB PANEL for use with additional USB components and topside accessories. This gives us the ability to use topside GPS, and power USBL systems, and dual monitor output with ease.

2.0 Parts Affected

Part Number	Notes	Removed	Added	Modified	REV
71095	MSS ASSEMBLED PANEL HOUSING	☐	☐	☒	G
71155	2-port USB hub	☒	☐	☐	A
71645	Hub USB retention	☒	☐	☐	A
71640	20 inch USB cable	☒	☐	☐	A
71755	1ft ethernet cable	☒	☐	☐	A
70968	8Pin circular touch screen connector	☒	☐	☐	A
70217	MSS ICB PANEL HOUSING	☐	☐	☒	B
71644	ML100 frontside USB / HDMI retention bracket	☐	☐	☒	B
71710	ML100 computer adapter plate 2.0	☐	☐	☒	C
72176	Preassembled touch screen power / USB cable	☐	☒	☐	A
72151	5A circuit breaker	☐	☒	☐	A
72152	Circuit breaker waterproof bulb cover	☐	☒	☐	A
72153	12V barrel connector power socket	☐	☒	☐	A
72154	7-port USB HUB	☐	☒	☐	A
72161	Right angle USB 3.0	☐	☒	☐	A
72162	USB to USB Hub 3.0 type 3	☐	☒	☐	A
72163	1.64ft male to male ethernet cable	☐	☒	☐	A
72172	USB HUB retention Plate	☐	☒	☐	A
72173	Male-female threaded standoff #4 x 1-5/8" long	☐	☒	☐	A

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3.0 Detail

The following features were added the MSS ICB panel housing [70217]

- A second HDMI port
- (4) additional USB 3.0 ports
- (2) external barrel connector 12v power sockets

To incorporate those changes within the Panel, the panel housing was modified for panel access of the new ports. The computer mount plate [71710] had to be extended to allow a location for the new 7-port USB HUB. A few USB cables, and accessory power changes had to occur to allow these internal panel changes. The frontside USB retention had to be redesigned to retain the extra HDMI plug and clear room for the USB Hub. USB hub retention was also designed to keep the USB cables from becoming unplugged during shipping.

During this eco process, it was noticed that 70968 was not individually being used within the panel, we receive an assembled preordered power / USB cable for the touch screen monitor and this is used within the assembly. 70968 was removed and PN 72176 was written / added to cover this assembled component.

4.0 Disposition of Material

Items: 71155, 71645, 71640 are no longer needed and can be disposed of or repurposed.

70968 any stock can be returned to the supplier to be assembled into 72176.

70217 Rev A no longer used here out, some may be stored for repair of old units. Dispose of the rest.

71644 Rev A is no longer needed, and cannot be reworked to rev B.

Rev A should be scrapped.

71710 Rev B are no longer needed, and cannot be reworked to rev C.

Rev B should be scrapped.

5.0 Action Items

Action	Department	Acknowledgement Initials
Excel BOM / SW BOM Update	ENGR	JV

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Epicor BOM update	ENGR	RN
Order new parts	Purchasing	JB
Update WI / Train / Transfer stock	ENGR	JV

6.0 Modified / Referenced Documents:

Document	Current Revision
WI-70218-MSS-ICB	C
MSS PANEL WIRING DIAGRAM PRODUCTION & ENGRING	1.0

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
11/17/2019	N/A	Init release	JMV