

	Doc or ECO #:	ECO-73361-73362-001	Date:	11/03/2022	Author:	SL
	Rev. #:	A				
Engineering Change Order (ECO)	Engineering Approval:	aeg	Date:	11/28/2022	Quality Approval	aeg

P/N #:	73361 & 73362	Effective Date:	November 28, 2022
Title:	HMI Pod PCB Upgrade		

1.0 Purpose / Summary

The purpose of this change is to create a more efficient assembly process by incorporating common off the shelf goods with components that will no longer need to be handmade.

2.0 Parts Affected

Part Number	Notes	Removed	Added	Modified	REV
73361	Port Top Level Assembly	☐	☐	☒	B
73362	Starboard Top Level Assembly	☐	☐	☒	B
73305	Base Component Kit	☒	☐	☐	A
74072	Assembled Switch Kit	☐	☒	☐	A
74026	Port Pod PCB	☐	☒	☐	A
74027	Starboard Pod PCB	☐	☒	☐	A
74077	17 Pin Header x 2	☐	☒	☐	A
73371	Arduino Micro Pro	☐	☒	☐	A
74078	M2 x 4mm PHPS x 4	☐	☒	☐	A

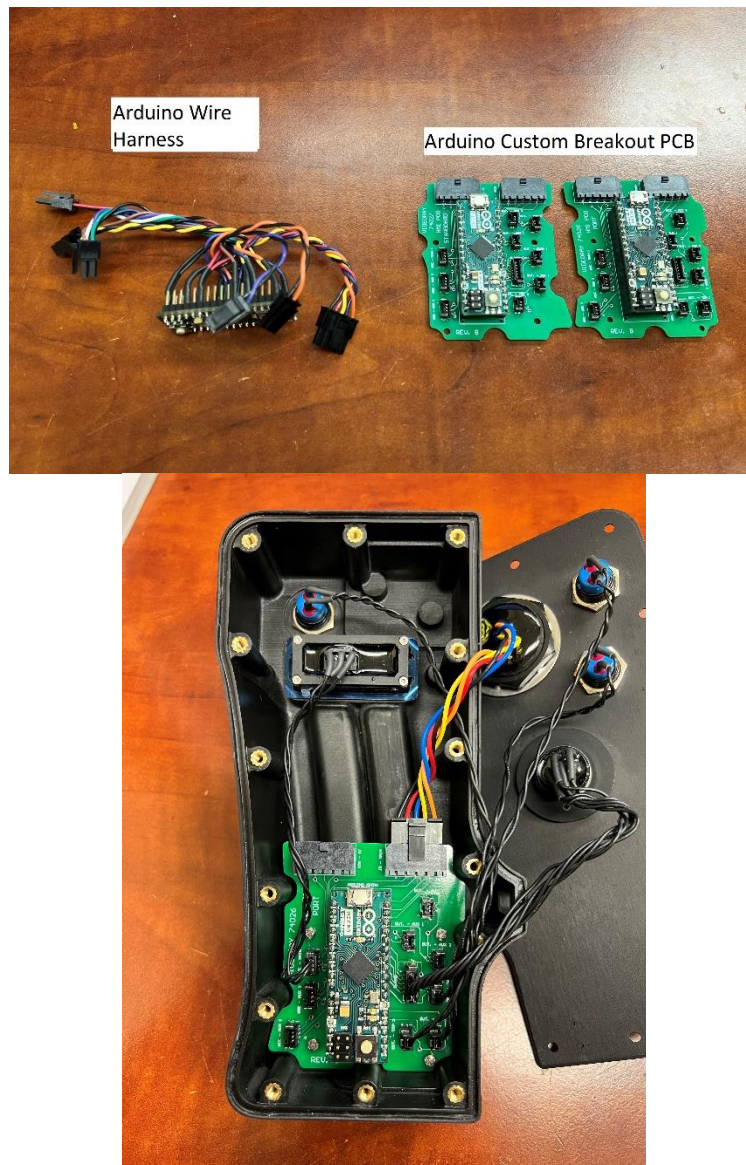
3.0 Detail

To create a more efficient assembly process, custom handmade Arduino with wiring harness will be replaced with an Arduino breakout PCB that utilizes COTS wiring harness. The PCBs also account for the swapped D-Pads on the Port and Starboard side which allow for the same pinout and Arduino code.

The PCBs also feature the following Auxiliary connections for future changes

- 1 Joystick
- 2 ADC (Potentiometers/Thumbwheels)
- 3 Buttons

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4.0 Disposition of Material

Once old stock is depleted switch to the latest revision

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5.0 Action Items

Action	Department	Acknowledgement Initials
Update Epicor BOM	Engineering	SL
Update General Assembly	Engineering	JV

6.0 Modified / Referenced Documents:

Document	Current Revision
BOM-73361	B
BOM-73362	B

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
11/03/2022		Init release	SL