

	Doc or ECO #:	ECO-72847-001	Date:	7/5/2023	Author:	JV
	Rev. #:	A				
Engineering Change Order (ECO)	Engineering Approval:	aeg	Date:	7/27/2023	Quality Approval	aeg

P/N #:	72847/74426	Effective Date:	July 27, 2023
Title:	AC/400 BOM refactor for outsource preparation		

1.0 Purpose / Summary

The subassembly structure within the ac400 for optimized production and outsourcing to a contract manufacturer.

The finished good of the product will remain the same, just videoray's internal organization of the BOM tree is being rearranged for improvement.

We did changed the SD Card to improve manufacturability and reliability, but all external appearance and usage is identical.

2.0 Parts Affected

Part Number	Notes	Removed	Added	Modified	REV
72847	Sealed AC/DC 400v ROV interface Package - no rev change	☐	☐	☐	B
74426	Sealed AC/DC 400v ROV interface *NEW PN	☐	☒	☐	A
73193	Panel assembly	☐	☐	☒	C
72078	Old sd card removed	☒	☐	☐	-
74407	SD card updated for new imaging process	☐	☒	☐	A
73146	Pulled up from subassembly	☐	☒	☐	-
73466	Update refactor power supply / new rev	☐	☐	☒	B
74418	Ac400 power supply Subassembly 1	☐	☒	☐	A
74419	Ac400 power supply Subassembly 2	☐	☒	☐	A
73146	Removed from power supply assembly to panel assembly	☒	☐	☐	-
		☐	☐	☐	

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3.0 Detail

We created a new tier for the ac400 that is just an assembled unit with no ancillary equipment inside [74426]. This condensed the BOM tree of [72847] but made NO change to the fundamental design or finished goods. The rest of the downstream BOMs were refactored to account for this.

QC docs and WI will largely remain the same with some small updates for the new subassemblies.

Currently the following are listed as “manufactured” but with intent that in the future these could also be purchased from contract manufactures. Specially the following sub-assmeblies:

[74426] AC/400

[73466] Power supply

[74418] Power supply subassembly 1

[74419] Power supply subassembly 2

A new sd card [74407] will replace [72078] The new card will allow us to utilize a new imaging process for the internal raspberry pi which will reduce the WI-72847 by several pages and will help prevent any technological issues that might arise from a manual setup. This is a smaller card to enable faster imaging. A side benefit of this switch is that this card has improved wearleveling so should be more reliable.

FIRST AFFECTED SERIAL NUMBER: [74426] rev A S/N :SPC2023157

Note 74426 was refactored under 72847 to facilliate production separate and contract manufacture.

The 74426 subassembly will be serialized separately from the higher level assembly 72847.

The serial numbers and revisions do not have to match as they are separate parts.

UUID tags will reflect the s/n and revision number of 72847

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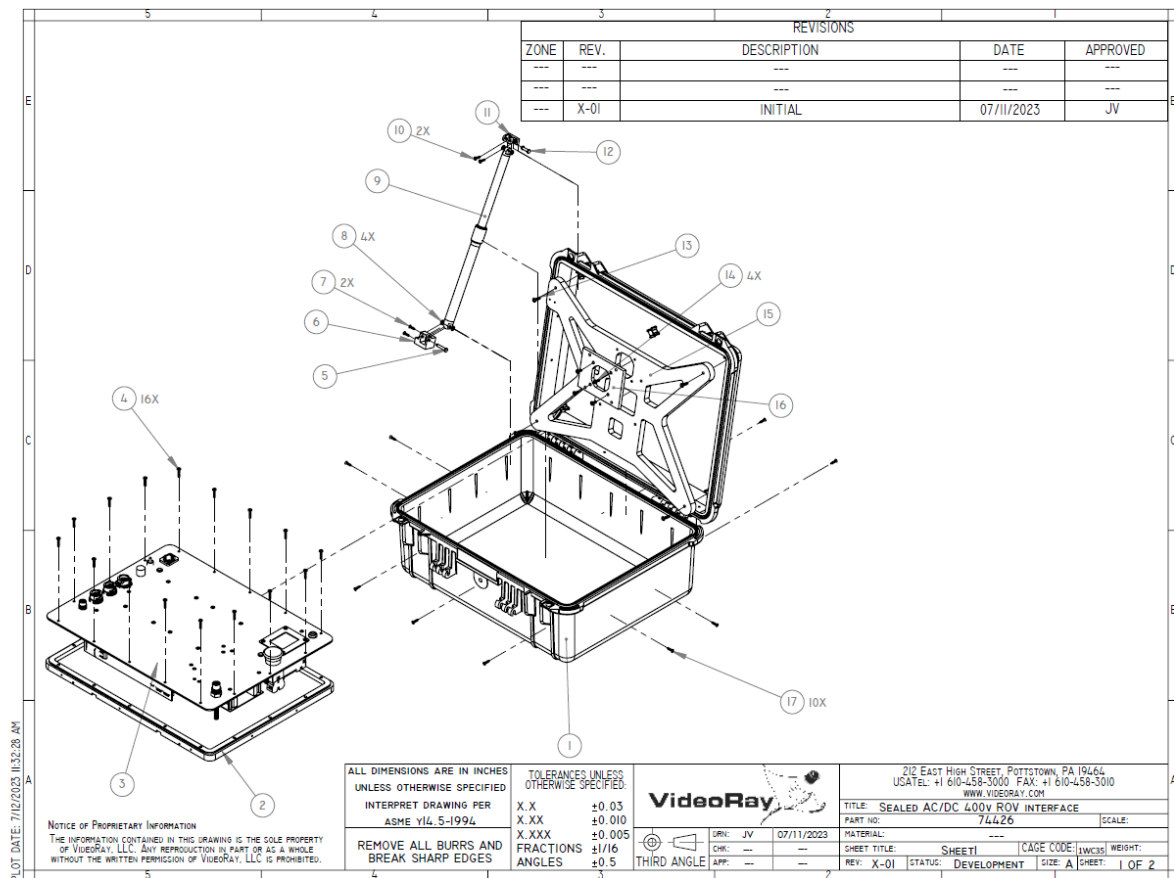


Figure 1 74426 AC/400 primary subassembly

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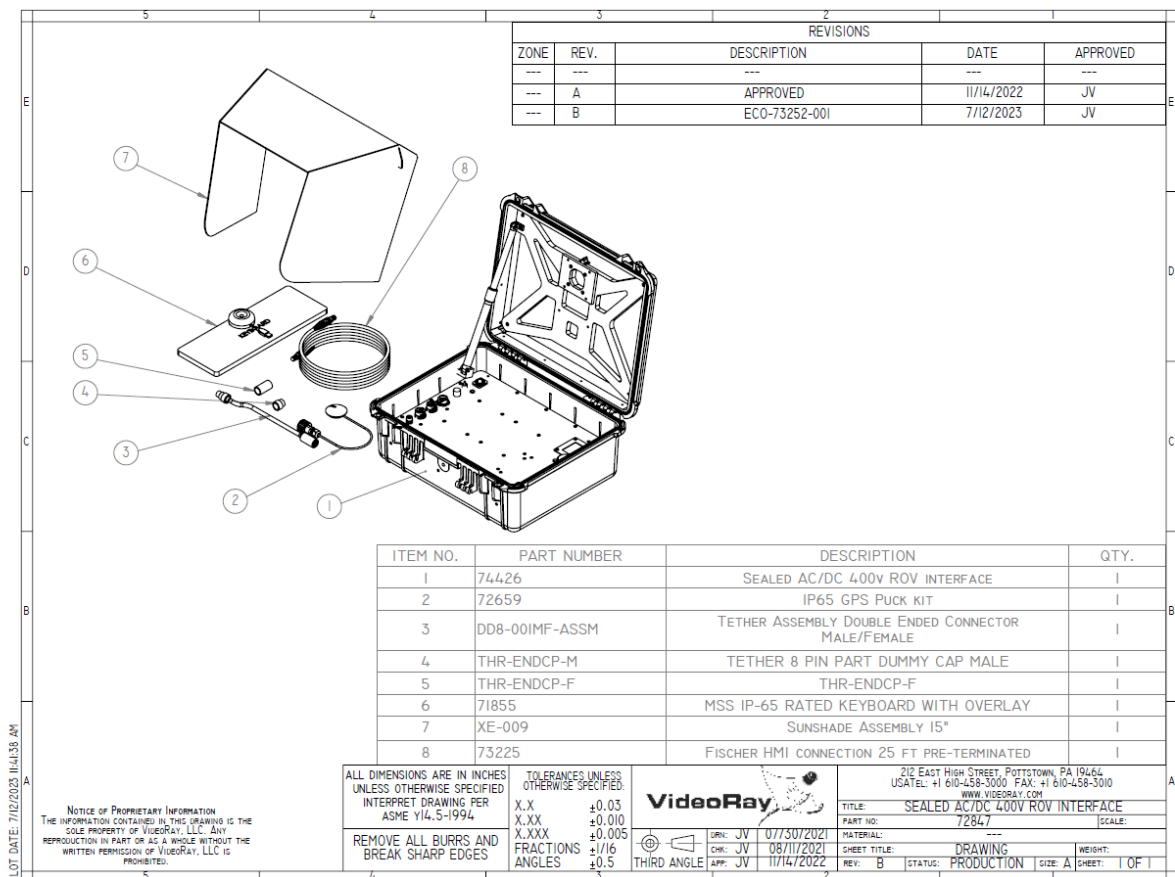


Figure 2 72847 complete assembly

4.0 Disposition of Material

Remove 72078 from inventory.

Order restocking qty of 74407

No other actions necessary as this was primarily a BOM rearrangement.

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5.0 Action Items

Action	Department	Acknowledgement Initials
Switch 72847 Brady serial tag to 74426	ENGR	SL
Epcior updates	ENGR	JV

6.0 Modified / Referenced Documents:

Document	Current Revision
72847 GA	B
74426 GA	A
WI-72847	IN PROGRESS

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
7/12/2023		Initial	JV
8/4/2023	3	Clarification of UUID rev #'s	aeg