

	Doc or ECO #:	ECO-70729-001	Date:	8/15/2019	Author:	MW
	Rev. #:	A				
Engineering Change Order (ECO)	Engineering Approval:	AEG	Date:	8/15/2019	Quality Approval	DO

P/N #:	70729	Effective Date:	August 15, 2019
Title:	MSS Defender Rear Frame Member Redesign		

1.0 Purpose / Summary

This ECO is for the redesign of the rear frame member for the defender to provide space for the acoustic/EMI shield around the DVL. This is a required modification for DVL usage.

2.0 Parts Affected

Part Number	Notes	Removed	Added	Modified	REV
70729	MSS Defender Rear Frame Member	☐	☐	☒	B

3.0 Detail

It was found that the DVL works better with a cork & metal jacket around it. This “can” provides acoustic and emi shielding for the DVL which results in significant improvement in achievable range.

This shield adds thickness to the diameter of the DVL assembly.

A cutout in the rear frame member makes room for this added diameter.

Note upper level assembly drawings will be update with a future ECO adding the shield to the BOM. This eco only covers the 70729 modification.

4.0 Disposition of Material

All REV A. material to be reworked in house to current revision.

Parts must be swapped for fielded units getting DVL upgrades.

5.0 Action Items

Action	Department	Acknowledgement Initials
Update General Assembly drawing	Engineering	MW

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Publish docs to sharepoint	Engineering	AG
Update in Epicor	Engineering	RN
Update Inventory	Inventory	SL

6.0 Modified / Referenced Documents:

Document	Current Revision
MSS Defender Rear Frame Member	B

7.0 Revision History

Date Revised (mm-dd-yyyy)	Location of Change (section, paragraph no., step no., etc.)	Description of Change Made	REV	Name of Person making the Change
8/15/2019		Initial	A	Mike Willis