

	Doc or ECO #:	ECO-71044-001	Date:	8/23/2019	Author:	MW
	Rev. #:	B				
Engineering Change Order (ECO)	Engineering Approval:	AEG	Date:	8/23/2019	Quality Approval	DO

P/N #:	71044	Effective Date:	August 23, 2019
Title:	Updated design to include cover assembly		

1.0 Purpose / Summary

This ECO is for the inclusion of the cover assembly (72199) and update of the DVL design.

2.0 Parts Affected

Part Number	Notes	Removed	Added	Modified	REV
71044	MSS Defender Kit Nortek DVL 300M	☐	☐	☒	B
72178	Truss Head Screw 1/4-20 X 1/2" 18-8 SS	☐	☒	☐	A
72177	Plastite #10 X 1/2" 18-8 SS	☐	☒	☐	A
72197	DVL Top Cover for Magnetic Field Protection	☐	☒	☐	B
72203	CORK MATERIAL FOR DVL SHIELDING	☐	☒	☐	A
72198	316 SS Shim Stock; .010" Thick; DVL Cover	☐	☒	☐	A
72202	SS Zip Tie; .47" Wide; Perforated	☐	☒	☐	A
72217	HEAT SHRINK TUBING; BLACK; Ø5" ID	☐	☒	☐	A

3.0 Detail

The DVL has been revved to a 500kHz mini version for noise immunity and increased range.

Additional measures have also been taken (cork with SS shield) for additional noise immunity.

The new DVL doesn't have the bottom flange like before. It has top mount holes. The cover assembly which was added has two purposes. It includes the new top mount (72197) and serves the purpose of blocking ambient noise to help the DVL work better.

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The configuration of the DVL has also been changed.

Range is increased to 100 m.

4.0 Disposition of Material

N/A

5.0 Action Items

Action	Department	Acknowledgement Initials
Make General Assembly Drawing	Engineering	MW
Publish DWG to Sharepoint	Engineering	AG
Update in Epicor	Engineering	RN

6.0 Modified / Referenced Documents:

Document	Current Revision
72199 DVL COVER ASSEMBLY - Magnetic Field Protection	X-01
70743 MSS Defender Vehicle Assembly	A

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
8/23/2019		Init release	A	Mike Willis
11/22/2019	All	Update details for full information. Update notes on settings	B	AEG