

	Doc or ECO #:	ECO-70160-002	Date:	06/28/2019	Author:	GD
	Rev. #:	A				
RF filter modification	Engineering Approval:	aeg	Date:	7/15/2019	Quality Approval	DO

P/N #:	70160	Effective Date:	July 15, 2019
Title:	RF filter modification		

1.0 Purpose / Summary

AC coupling filter caps were added to the power module to reduce interference, especially with respect to the DVL.

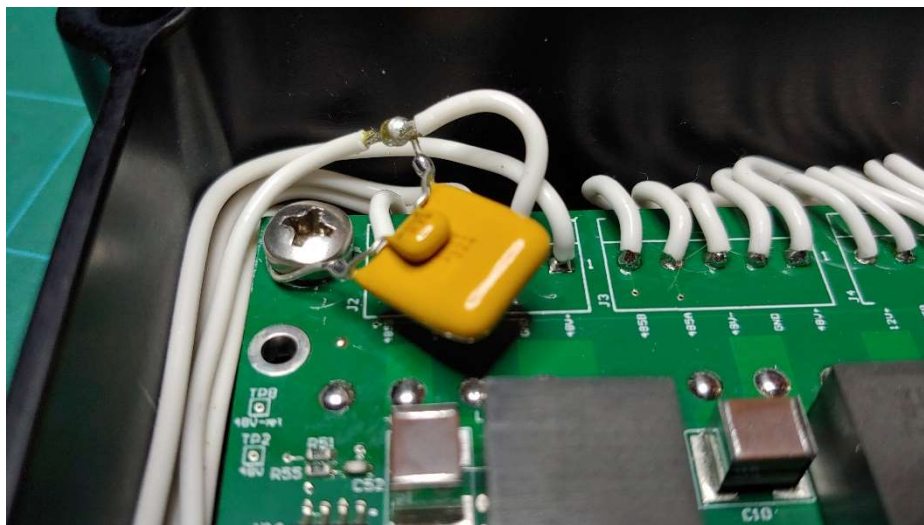
2.0 Parts Affected

Part Number	Notes	Removed	Added	Modified	REV
72155	Ceramic Capacitor 0.1uF 200V X7R RADIAL	☐	☒	☐	-
72156	Ceramic Capacitor 1uF 200V X7R RADIAL	☐	☒	☐	-
70160	Power module assembly	☐	☐	☒	B

3.0 Detail

RF filter with two ceramic capacitors (0.1uF and 1uF) are needed to reduce electronic interference when a 500KHz DVL is attached as an accessory. Adding this RF filter will increase the Bottom Lock Range of DVL significantly.

The two capacitors 0.1uF and 1uF in parallel are added between Pin 5 port Ground (pin 2) and the housing



Finished modification

The next revision of the power board will include this modification on board.

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4.0 Disposition of Material

Old stock should be reworked at operations discretion. It is not necessary for non-dvl systems.

Change should be implemented on all new production runs

Recall action, older Power modules should be replaced when new DVLs are upgraded.

5.0 Action Items

Action	Department	Acknowledgement Initials
Updated power converter module work instructions reflecting the new modification	Engineering	GD
Update Sharepoint Records	Engineering	AEG
Inform purchasing dept to stock new parts (two capacitors)	Engineering	GD

6.0 Modified / Referenced Documents:

Document	Current Revision
Click here to enter text.	Click here to enter text.

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