

Engineering Department

Engineering Change Order (ECO)

ECO #: ECO-70007-001

Effective Date: November 6, 2015

Title: M5 Thruster Strut Coating Change

Author: Jason Knechel
Engineering Approval: AEG
Operations Approval: JV

Date: November 6, 2015
Date: November 10, 2015
Date: November 16, 2015

Summary:

M5 thruster struts nickel plating coating is deteriorating under a variety of environmental conditions. To eliminate this issue the coating specification is now Micalox hard anodize.

Parts Affected:

Part Number	Notes	Removed	Added	Modified
70007	M5 Thruster Strut	☐	☐	☒

Detail:

M5 thruster struts are electroless nickel (EN) plated for abrasion and corrosion resistance. After field testing the EN coating is consistently deteriorating in environments typical for VideoRay Vehicle operations. To address the issue the coating specification is now Micalox hard anodize.

Action Item:

Action	Department	Acknowledgement Initials
Update drawing with new coating details	Engineering	JK
Release all nickel plated struts from inventory to engineering	Inventory Control	SL
Use current drawing for incoming QC inspection	Quality Control	NS

Modified / Referenced Documents:

Document	Current Revision
70007.pdf	X-02

-- END OF ORDER --