

	Doc or ECO #:	70023-001	Date:	12/15/2017	Author:	aeg
	Rev. #:	A				
Engineering Change Order (ECO) LED Reflector position change	Engineering Approval:	aeg	Date:	12/20/2017	Quality Approval	DO

P/N #:	70023	Effective Date:	December 15, 2017
Title:	LED reflector position change		

1.0 Purpose / Summary

Wire routing on the MSS Defender required the repositioning of the LED reflector (LED Lens Array - 60 deg. Winston Cone 70017) for optimal illumination.

2.0 Parts Affected

Part Number	Notes	Removed	Added	New	Modified
70023	Change to fabrication procedure	☐	☐	☐	☒

3.0 Detail

Wire routing on the MSS Defender required a fixed position for the LEDs. These placed the flood LED bank in the wrong position. To correct this the LED reflector was switched to the other LED bank.

The connections to the LED banks were also made to follow the reflector so that no changes to the topside software were required.

Figure 1 shows the proper orientation of the LED reflector (70017).

Figure 2 shows the proper connection points between the LED Emitter boards (70019) and the LED controller Module (70020)

Note that as the current work instructions are deficient (as of 12/18/2017) these modifications will be included in the pending work instruction redraft. Production has modified notes and is currently building the modules correctly.

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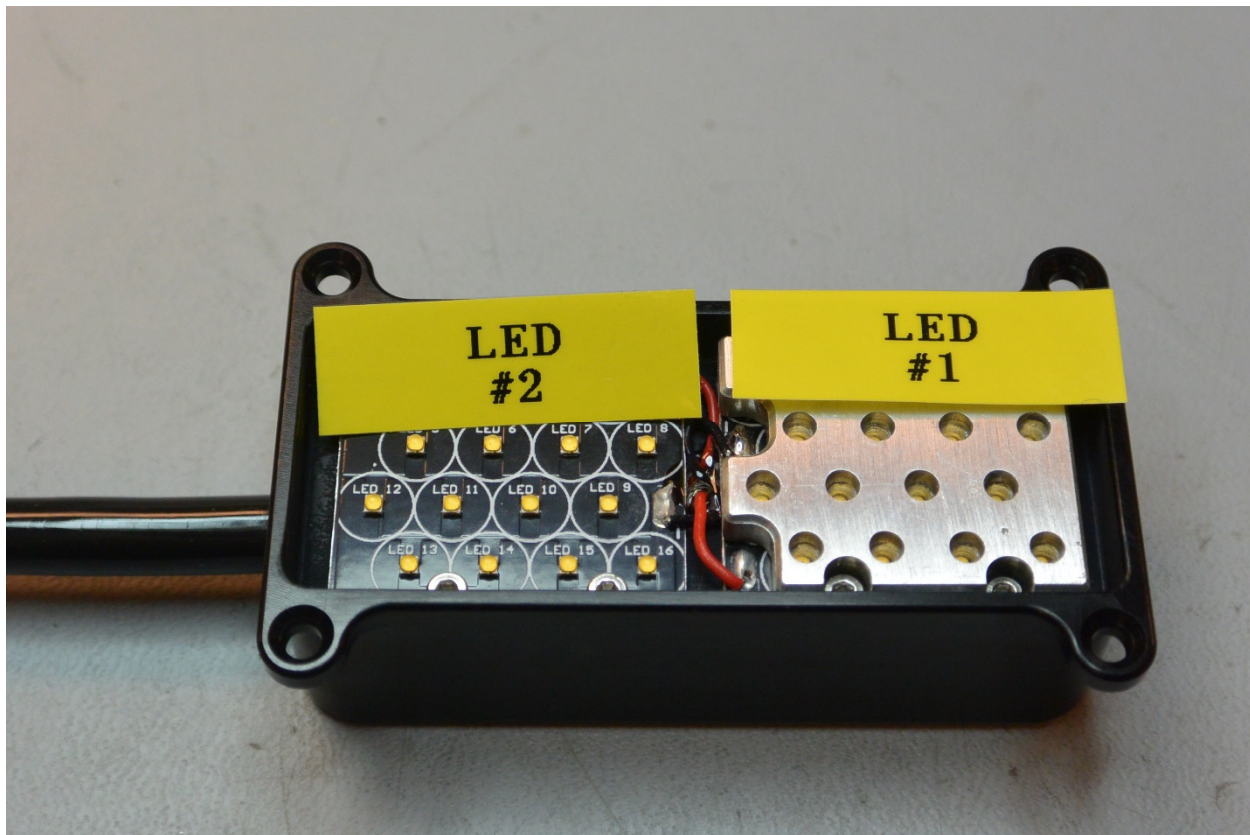


Figure 1. Correct positioning of the LED reflector (70017)

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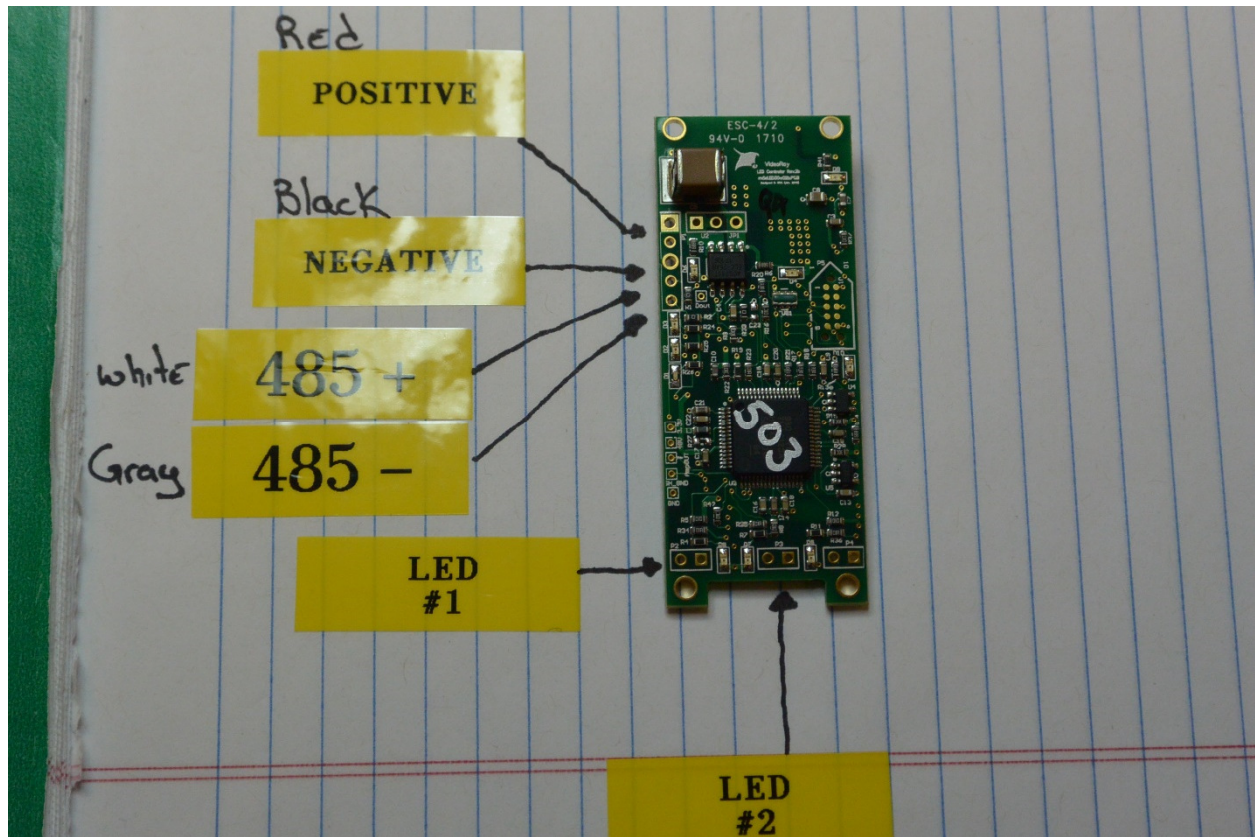


Figure 2. Connection Illustration

4.0 Disposition of Material

No rework or disposal of any stock.

5.0 Action Items

Action	Department	Acknowledgement Initials
Build new LED modules to conform with the ECO	Production	KK, KM

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6.0 Modified / Referenced Documents:

Document	Current Revision
70023_Production_Instructions	A

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
12-18-2017		Initial Draft	AEG