

Engineering Department

Engineering Change Order (ECO)

ECO #: 70160-001 Effective Date: April 25, 2017

Title: Improved soldering and mounting techniques for DCM modules on MSS PC PCB

Author:	<u>GD</u>	Date:	<u>April 25, 2017</u>
Engineering Approval:	<u>aeg</u>	Date:	<u>April 25, 2017</u>
Operations Approval:	<u>aeg</u>	Date:	<u>April 25, 2017</u>

Summary:

Assembly documentation has been updated with improved techniques for soldering and mounting methods for DCM modules on the 400V Power Converter board PCB

Parts Affected:

Part Number	Notes	Removed	Added	New	Modified
70160	400V Power Converter board PCB	☐	☐	☐	☒

Detail:

There have been several MSS power converter failures reported and a fully-fledged failure analysis has high lightened poor soldering and mounting of DCM modules to the PCB. In this update, a fully tested improved techniques for soldering DCM modules using a specially designed soldering tip and well controlled method of applying heat sink paste for known thickness (0.003") across all DCM and BCM modules on the PCB have been outlined.

Action Item:

Action	Department	Acknowledgement Initials
Update Assembly Documentation on RTM archive	Engineering	AEG
Begin purchasing required special tools	Purchasing	NS
Begin creating special soldering tip (limited quantity)	Engineering	AEG

Modified / Referenced Documents:

Document	Current Revision
70160-Production_Instructions	Click here to enter text.

Revision Table:

Revision	Initials	Date	Comments
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