

	Doc or ECO #:	71006-001	Date:	3/24/19	Author:	JK
	Rev. #:	A				
Engineering Change Order (ECO)	Engineering Approval:	aeg	Date:	3/25/19	Quality Approval	DO

P/N #:	71006	Effective Date:	March 25, 2019
Title:	5 Pin Female Bulkhead Connector Replacement		

1.0 Purpose / Summary

Several parts captured in the work instructions were missing in the BOM and Assembly Drawing. The BOM and Assembly have been updated to account for these missing parts.

A replacement for the 5-Pin Female Bulkhead Connector **[70264]** is required due to an inability to source this part in a reasonable timeline. The replacement requires the addition of Oil-Resistant Buna-N O-Ring 1/16 Fractional Width, Dash Number 012 **[9452K21]** to center the connector during installation.

2.0 Parts Affected

Part Number	Notes	Removed	Added	Modified	REV
70157	Add to assembly	☐	☒	☐	COTS
70161	Add to assembly	☐	☒	☐	A
70162	Add to assembly	☐	☒	☐	A
71006	Add missing heatsink components, centering oring, tether anti-rotation components	☐	☐	☒	C
71027	Add to assembly	☐	☒	☐	COTS
71492	Add to assembly	☐	☒	☐	A
71774	Buna N Oring -012	☐	☒	☐	COTS

3.0 Detail

The following parts were added to the BOM and assembly drawing to synchronize them with the work instructions: Tether Rotation Inhibitor Bracket **[71492]** and the required mounting hardware SHCS M5 X 25MM 18-8 SS **[71027]**, PTFE Heat Sink Insulator **[70161]** 420V DCM Heat Sink **[70162]** and the associated hardware 18-8 Stainless Steel Metric Pan Head Phillips Machine Screw M2.5 Size, 8mm Length, .45mm Pitch **[70157]**.

A replacement for the 5-Pin Female Bulkhead Connector **[70264]** is required due to an inability to source this part in a reasonable timeline. The replacement connector geometry is slightly different, the main differences are an increase in overall length of the molded portion of the connector and an increase in the width of the thread relief groove in threaded portion of the connector. The width of the thread relief on the new connector is wider than the housing wall thickness. For this reason, the connector no longer

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centers in the mounting hole in the housing and requires the addition of Oil-Resistant Buna-N O-Ring 1/16 Fractional Width, Dash Number 012 **[9452K21]** to center the connector during installation.

4.0 Disposition of Material

Any existing assemblies **[71006]** can remain in inventory and be used.

ALL 5-Pin Female Bulkhead Connector **[70264]** from the historic vendor or the new vendor can be used following the updated work instructions.

5.0 Action Items

Action	Department	Acknowledgement Initials
Update BOM in Epicor	Engineering	RN
Update Part and Assembly Revisions in Epicor	Engineering	RN

6.0 Modified / Referenced Documents:

Document	Current Revision
WI-70160	B
BOM-71006	C

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
3/22/2019	-	Initial Release	JK