

	Doc or ECO #:	ECO-70844-70743-001	Date:	07/16/2018	Author:	MW
	Rev. #:	B				
Updating BOM's for Defender Assemblies	Engineering Approval:	AEG	Date:	07/18/2018	Quality Approval	DO

P/N #:	70745; 70844; 70743; 70778	Effective Date:	July 25, 2018
Title:	Updating BOM's for Defender Assemblies		

1.0 Purpose / Summary

This ECO addresses several issues on the defender frames and associated BOMS.

The BOMs for defender assemblies 70844 and 70743 were updated to match actual current production.

Additional ballast mounting holes were added to 70778 (the oculus mount plate) to consolidate parts.

Some tolerancing and material specification on drawings was updated.

2.0 Parts Affected

Part Number	Notes	Removed	Added	New	Modified
70844	MSS DEFENDER VEHICLE NO PAYLOAD	☐	☐	☐	☒
70743	MSS Defender Vehicle	☐	☐	☐	☒
70745	NO PAYLOAD FRAME	☐	☐	☐	☒
70778	OCULUS MOUNT PLATE, modified for additional ballast	☐	☐	☐	☒
70817	Frame part, WIRE KEEPER PLATE, tolerance adjustment	☐	☐	☐	☒
70819	Frame part, PORT FORWARD FRAME PLATE, material specification tightening	☐	☐	☐	☒
70820	Frame part, STBD FORWARD FRAME PLATE, material specification tightening	☐	☐	☐	☒
70741	Frame part, material specification tightening	☐	☐	☐	☒
70780	Frame part, material specification tightening	☐	☐	☐	☒
70769	Frame part, material specification tightening	☐	☐	☐	☒
70735	Frame part, material specification tightening	☐	☐	☐	☒
70729	Frame part, material specification tightening	☐	☐	☐	☒
70781	Frame part, material specification tightening	☐	☐	☐	☒
70770	Frame part, material specification tightening	☐	☐	☐	☒
70771	Frame part, material specification tightening	☐	☐	☐	☒
70768	Frame part, material specification tightening	☐	☐	☐	☒
70853	NO PAYLOAD BARE FRAME, obsoleted	☒	☐	☐	☐
70995	FORWARD WEIGHT MOUNT PLATE	☒	☐	☐	☐

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99461A370	PLASTITE #8 X ¾" 18-8 SS	☒	☐	☐	☐
70366	Type 18-8 SS SCHS M6 X 40MM	☒	☐	☐	☐
71418	SHCS M6 X 50MM 18-8 SS	☐	☒	☐	☐
71417	SHCS M6 X 40MM 18-8 SS	☐	☒	☐	☐
71419	FLAT WASHER .266" ID; 1" OD 18-8 SS	☐	☒	☐	☐
71420	THREADED KNOB – M6 – 7 LOBE; NYLON	☐	☒	☐	☐
70992	NYLON WIRE HARNESS CLAMP 3/4"	☐	☒	☐	☐

3.0 Detail

Defender assemblies were updated to match current production and inventory practices.

Full boms and assembly drawings were updated.

There were two base frame assemblies before, 70745 and 70853. 70853 was removed. Moving forward 70745 will be the base frame subassembly.

70844 front ballast weights were moved to a different location and fasteners changed

70844 was updated to include only 70745 – *No Payload Frame*

70743 was updated to include the 70844 as the base subassembly and parts added to it, decreasing the BOM item list. Parts 70728 and 70933 removed from 70745 and transferred to 70743.

70995 the weight plate was removed from 70745, the weights will mount to the existing holes and slot in the frame now.

70778 – Oculus Mount Plate was modified to allow additional ballast weights to be mounted on top.

Material callouts for several frame parts was changed to be more specific.

Tolerancing was opened on the side frame plates and cable plate (70819,70820, 70817)

Additional ballast mounting holes were added to the side frame plates (70819/70820)

4.0 Disposition of Material

Rework existing stock of 70778 plates to include new holes.

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Rework 70819, 70820 for new mounting holes, and opening the cable plate groove.

70817 can be released into inventory as-is.

Transfer 70995 to engineering inventory.

5.0 Action Items

Action	Department	Acknowledgement Initials
Update part drawings and General Assembly drawings	Engineering	MW
Rework 70778, 70819, 70820, 70817	Engineering	MW
Update Parts and BOMs in Epicor	Engineering	RN
Transfer 70995 to Engineering inventory	Inventory	SL, RN
Acknowledge ECO, not action necessary	Inventory	SL
Update Product documentation wrt. ballasting changes.	Support	TG

6.0 Modified / Referenced Documents:

Document	Current Revision

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
7/16/2018		Initial draft	Mike Willis
7/19/2018	All	Added items to cover tolerance and material changes Modified action items	AEG