

# Bayer/ Medrad Stellant Preventive Maintenance/ Repair Checklist

Date 8-10-21 Facility ALTHEA US WO# 7077 ECN 27254

Facility GOODLETTSVILLE, TN Department INJECTORS  
 Room#        Service Engineer KEN CLARKE Event Type PM  
 Head Serial# 58749238 33650 Display Serial# 60727838 201668 SW Version 105.7 SH D

Syringe	Flow Rate	Volume	KVO
A			
B			
A			
B			
(?)			
Pressure Limit		Delay Secs	secs

Notes: NO STAND WITH DISPLAY

Step	Task	PASS	FAIL
1. Operational Checkout Procedure #1	Enter Selected Protocol and Verify	✓	
2. Inspect Power Control Module	<b>Do Not disconnect any cables prior to shutting system down and removing power cable</b>		
	Inspect cables and connections on Power Control Box	✓	
3. Inspect Display Panel	Turn unit on/ Annotate SW version	✓	
	Inspect Display Panel	✓	
	Coiled Hand Switch	✓	
	Integrity of buttons	✓	
	Panel properly mounted	✓	
	Set date / time if needed	✓	
4. Auto Functions	Verify Auto Load	✓	
	Verify Auto Advance	✓	
5. Inspect Injector Head	Inspect Outside of Injector Head	✓	
	Inspect Head Cable	✓	
	Clean Outside head, Dried contrast	✓	
	Inspect Contrast Warmer	✓	
	Integrity of Keypad / Buttons	✓	
	Plunger Movement	✓	
	Inspect / Clean / Replace Manual Knobs	✓	
	Inspect/ Replace Lens Cap and Gasket	✓	
	Remove Bottom and Top Cover/ Inspect /Clean	✓	
Replace Top Cover Gaskets	✓		
Inspect Internal Wiring/ Routing/ Condition	✓		

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5. Inspect Injector Head	Inspect / Replace LED board and gasket			✓
	Inspect / Clean Display Board			✓
	Inspect / Replace Dual Overlay Gasket			✓
	Inspect / Replace / Lubricate Plunger Tip Boot and Rubber Boot			✓
	Inspect / Clean Syringe Wells and Cap Seals			✓
	Inspect / Clean / Replace Front End gasket			✓
	Inspect Head Cable and Extension cable			✓
	Inspect / Clean Optic Sensors and Seals			✓
	Inspect / Replace Knuckle and Gasket			✓
7. Injector Mounting Devise	Inspect Counterpoise Assembly			✓
	Head swings freely on mount			✓
	Pedestal moves freely, casters operate properly			✓
	Head Mounting Devise and base			✓
8. ISI 700	Cables			✓
	Inspect all cables and connectors			✓
9. Re-assembly	Re-assemble unit, connect all cables, Proceed to Calibration Verification Procedures			✓
10. Syringe Position Verification	Syringes installed, drive plungers plunger fully forward, verify amounts on syringes 0 ml + 1ml	A Side Volume $\emptyset$ ml		✓
		B Side Volume $\emptyset$ ml		✓
11. Volume and Flow Rates  Flow rate: 5ml/sec Volume: 50	<b>Syringe A</b> Flow Rate: 10 secs +/- .5 secs Volume: 50 ml +/- .5 ml  <b>Syringe B</b> Flow Rate: 10 secs +/- 1 secs Volume 50 ml +/- 1ml	A Flow Rate: <u>10.1</u> secs		✓
		A Volume: <u>50</u> ml		✓
		B Flow Rate: <u>10.2</u> secs		✓
		B Volume: <u>50</u> ml		✓
12. Motor Speed Checks	<b>Syringe A</b> 23s ± 5s Fast Forward 23 s ± 5 s Fast Reverse 115s ± 10s Slow Forward 115s ± 10s Slow Reverse <b>Syringe B</b> 23s ± 5s Fast Forward 23s ± 5s Fast Reverse 115s ± 10s Slow Forward 115s ± 10s Slow Reverse	<u>23.1</u> secs		✓
		<u>23.2</u> secs		✓
		<u>106.4</u> secs		✓
		<u>106.5</u> secs		✓
		<u>22.1</u> secs		✓
		<u>22.2</u> secs		✓
		<u>105.6</u> secs		✓
		<u>105.8</u> secs		✓
12. Pressure Limit Calibration Verification	"A" Side Pressure Limit 300 psi +/- 50psi	<u>301</u> psi		✓
	"B" Side Pressure Limit 300 psi +/- 50psi	<u>279</u> psi		✓
13. Electrical Safety Test	Follow Local Guidelines			✓
14. Final Inspection	Perform operations check, Enter leave unit with original protocol			✓

Calibration Verification Performed By: *[Signature]*

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