

Test Lab Work Request Form

Rev.3 -20 April, 2000

Date Submitted: 10/27/00	Tracking # : TLW0344
Project # : 241095	Engineer: S. Franz for M. Keeney
<p>Test Objective: A number of issues were identified in DAT Phase II that resulted in design changes. The purpose of this test is to determine if design changes made satisfactorily solve those deficiencies. Successful completion of this test will give a green light for T & P build and test activity to commence. Some of these issues have already been tested. For instance the magazine box weld strength was increased through weld parameter optimization and then subsequently tested via a tensile test run in the Metallurgical Lab. More specifically this test will focus on the following:</p> <ul style="list-style-type: none"> • Locking lug cam surface geometry changes and effect on bolt opening/closing • Bolt stop location and detent(stock) support changes • 2 bolt plug designs will be tested <ul style="list-style-type: none"> ✓ Design #1: DAT design with material changed to nylon ✓ Design #2: New design with material changed to nylon • Stock mold alterations to bring stock within model drawing (i.e. no shims) • Permanent recoil lug attachment to the stock (shimmed and glued) 	
<p>Test Description:</p> <p>Test Plan:</p> <ul style="list-style-type: none"> • 10 guns <ol style="list-style-type: none"> 1. System operation/bench check 2. Measure trigger pull 9 (3 measurements/gun) 3. Measure bolt opening and closing force (3 measurements/gun) 4. Measure bolt stop opening and closing force (3 measurements/gun) 5. Confirm proper fit between stock and receiver (no shims) 6. Confirm permanent attachment of recoil lug to stock 7. Headspace, Proof, Headspace 8. 200 round jack function test (all 10 guns) • 8 guns <ol style="list-style-type: none"> 1. ISS abuse test (Sec S. Franz) • 1 gun <ol style="list-style-type: none"> 1. 500 round jack function test 	
<p>Resource Usage:</p> <p>Manpower Requirements –</p>	<p>Test Results Required:</p> <p>Formal Report: X Data Only:</p>

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Facility Requirements -	Requested Completion Date: 10/31/00
Required Materials/Parts/Equipment (include quantities): Ten guns will be delivered. Five will have bolt plug design #1 and the remaining five bolt plug design #2.	
Test Parts Availability Date: 10/27/00	
Start Date: Completion Date: 30 OCT 00 Report Date:	Test Assigned To: Jesse Arnold, Bob Lee & Jody Carson Assignment Date: 10/30/00

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Harold J. Carson

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30 October 2000

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	Opening Force				Closing Force		Forward Force
	Dummy		No Dummy		Dummy	No Dummy	No Dummy
	Cocked	Un-Cocked	Cocked	Un-Cocked			
A1	4.14	12.48	2.76	11.62	See Note	See Note	38.50
71001297	3.76	12.78	2.50	11.66			39.20
	4.78	13.52	2.76	11.58			38.40
Average	4.23	12.59	2.57	11.62			38.70
A2	3.24	13.60	2.80	13.52	See Note	See Note	32.80
71001282	3.40	14.10	2.64	13.32			33.12
	3.64	13.56	3.08	13.54			32.64
Average	3.43	13.75	2.84	13.46			32.85
A3	2.46	13.30	2.34	13.42	See Note	See Note	35.62
71001280	2.42	13.06	3.08	12.60			35.94
	2.56	13.10	2.60	12.36			34.78
Average	2.48	13.15	2.67	12.79			35.75
A4	4.06	11.54	3.58	10.66	See Note	See Note	34.72
71001176	4.14	11.78	3.10	10.64			33.98
	3.46	11.56	3.34	10.56			34.42
Average	3.89	11.63	3.34	10.62			34.37
A5	3.36	13.36	2.40	12.62	See Note	See Note	34.68
71001175	3.04	14.00	2.58	12.42			34.86
	3.74	13.26	2.66	12.02			34.92
Average	3.38	13.54	2.55	12.35			34.82
A6	3.04	12.18	2.60	11.62	See Note	See Note	33.68
71001167	3.74	11.48	2.58	11.48			34.22
	3.00	11.42	2.42	11.52			33.36
Average	3.26	11.69	2.53	11.54			33.75
A7	2.94	14.96	2.50	15.08	See Note	See Note	33.00
71001156	2.98	14.90	2.58	15.12			32.98
	2.89	14.78	2.68	15.06			32.84
Average	2.97	14.88	2.55	15.09			32.94
A8	3.18	15.14	3.32	14.90	See Note	See Note	40.30
71001153	3.36	14.68	3.04	15.18			40.84
	3.30	14.02	2.92	14.84			37.90
Average	3.28	14.61	3.09	14.97			39.68
A9	3.02	12.14	3.42	11.34	See Note	See Note	29.92
71001149	3.58	11.52	3.48	10.80			30.18
	2.88	11.74	3.28	10.96			31.66
Average	3.16	11.80	3.39	11.03			30.59
A10	3.66	10.34	3.60	9.66	See Note	See Note	29.80
71001147	3.88	9.84	3.58	10.24			30.12
	3.56	9.90	3.44	9.58			30.58
Average	3.70	10.03	3.54	9.83			30.17

Note: Consistent closing forces could not be obtained.

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