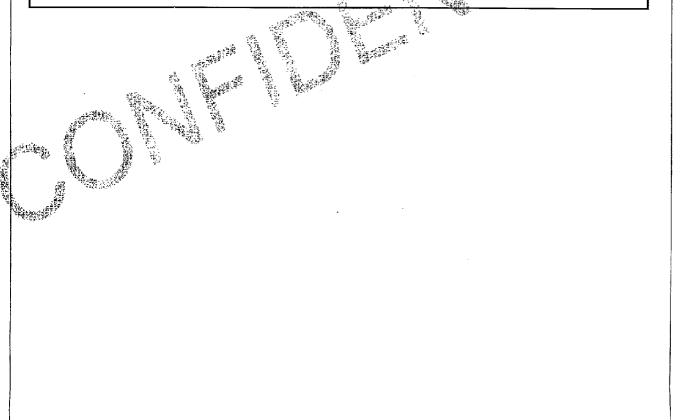
Test Lab Work Request Form

Rev.3 -20 April, 2000

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:

- 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
 - ✓ 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)



Test Description: Test Plan: 10 guns 1. Sy: 2. Me

- 10 guns
 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
- 1. ISS abuse test (See S. Franz)
- 1 gun
- 1. 500 round jack function test

Resource Usage Manpower Requirements –

Test Results Required: Formal Report: X Data Only:

Requested Completion Date: 10/31/00

Facility Requirements -

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: 300ct 2000

Completion Date: 30 Oct 2000

Report Date:

Test Assigned To: Jesse Arnold, Bob Lee & Jody

Carson U. Casson L.

Assignment Date:10/30/00

Dummy Cocked Un-Cocked Cocked Un-Cocked Dummy No Dum		-		r		1		I
Cocked Un-Cocked Cocked Un-Cocked Dummy No Dummy No Dummy A1		Opening F	orce			Closing Force		Forward Force
Cocked Un-Cocked Cocked Un-Cocked Dummy No Dummy No Dummy A1								
A1 4.14 12.48 2.76 11.62 See Note 3e.50 71001297 3.76 12.78 2.50 11.66 39.20 4.78 12.52 2.76 11.58 38.40 Average 4.23 12.59 2.67 11.52 See Note See Note 32.20 A2 3.24 13.60 2.80 13.52 See Note See Note 32.20 71001282 3.40 14.10 2.64 13.32 33.12 3.64 13.56 3.08 13.54 32.64 32.64 32.64 32.65 Average 3.43 13.75 2.84 13.46 See Note See Note 32.80 71001280 2.42 13.06 3.08 12.60 \$2.50 \$3.54 \$2.55 \$2.71001280 2.42 13.06 3.08 12.60 \$3.594 \$2.55 \$2.50 \$3.00 \$3.594 \$3.40 \$3.40 \$3.50		1		-				
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4.76 12.52 2.76 11.58 33.40 Average 4.23 12.59 2.67 11.62 38.70 A2 3.24 13.60 2.80 13.52 See Note See Note 71001282 3.40 14.10 2.64 13.32 33.12 3.64 13.56 3.08 13.54 32.84 Average 3.43 13.75 2.84 13.46 32.85 A3 2.46 13.30 2.34 13.42 See Note See Note 35.54 71001280 2.42 13.06 3.08 12.60 35.54 35.52 35.52 35.52 35.54 35.52 35.54 35.52 35.54 35.52 35.54 35.52 35.54 35.52 35.54 35.52 35.54 35.52 35.54 35.52 35.54 35.52 35.54 35.52 35.54 35.52 35.54 35.52 35.54 35.52 35.54 35.52 35.54 35.52 35.5	- A1	4.14	12.48	2.76	11.62	See Note	See Note	38.50
Average 4.23 12.59 2.67 11.62 33.70 A2 3.24 13.60 2.80 13.52 See Note 32.80 71001282 3.40 14.10 2.64 13.32 33.12 3.64 13.56 3.08 13.54 32.84 Average 3.43 13.75 2.84 13.46 32.84 Average 3.43 13.75 2.84 13.46 32.85 A3 2.46 13.30 2.34 13.42 See Note 36.82 71001280 2.42 13.06 3.08 12.60 35.94 Average 2.48 13.15 2.67 12.79 36.45 A4 4.06 11.54 3.58 10.66, See Note 34.72 71001776 4.14 11.78 3.10 10.66 Average 3.89 11.63 33.4 10.56 Average 3.89 11.63 33.4 10.56 71001775 3.04 78.00 2.58 12.49 Average 3.89 14.63 3.84 10.56 Average 3.89 14.63 3.84 10.56 Average 3.89 14.63 3.84 10.56 Average 3.89 11.63 33.4 10.56 Average 3.88 4.82 Average 3.89 1.89 10.80 2.58 12.35 Average 3.88 4.82 Average 3.89 1.89 10.80 2.59 11.62 Average 3.89 10.60 2.50 11.62 See Note 33.68 Average 3.26 11.69 2.53 11.54 Average 3.27 14.88 2.59 15.09 See Note See Note 33.00 71001165 2.98 14.90 2.55 15.12 32.98 Average 2.97 14.88 2.59 15.09 See Note See Note 32.98 Average 3.28 14.61 3.09 14.97 See Note See Note 29.92 71001163 3.30 14.68 3.04 15.18 Average 3.28 14.61 3.09 14.97 See Note See Note 29.92 71001163 3.56 11.80 3.39 11.03 30.59 Average 3.28 14.61 3.09 14.97 See Note See Note 29.92 71001164 3.56 11.80 3.39 11.03 30.59 Average 3.16 11.80 3.39 11.03 30.59 Average 3.16 11.80 3.39 11.03 30.59 Average 3.16 11.80 3.39 11.03 30.59	71001297	3.76						39.20
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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 35.52 71001280 2.42 13.06 3.08 12.60 2.56 13.10 2.60 12.36 64.78 Average 2.48 13.15 2.67 12.79 56.45 A4 4.06 11.54 3.59 10.66, See Note 33.98 11.56 3.34 10.56 33.49 33.98 Average 3.89 11.63 334 10.66 34.27 Average 3.89 11.63 334 10.66 34.27 Average 3.89 11.63 334 10.66 34.26 See Note 34.68 71001175 3.04 74.00 2.58 12.42 34.92 Average 3.35 45.54 32.55 34.86 Average 3.36 13.36 2.40 12.62 See Note See Note 34.68 71001175 3.04 14.48 2.58 12.02 34.92 Average 3.35 45.54 32.55 34.82 Average 3.36 11.48 2.58 11.48 34.22 Average 3.36 11.49 2.50 11.52 33.36 Average 3.26 11.69 2.50 15.08 See Note See Note 33.68 Average 3.26 14.99 2.55 15.08 See Note See Note 33.98 Average 2.97 14.88 2.59 15.09 Average 3.28 14.61 3.99 14.97 See Note See Note 40.84 Average 3.28 14.61 3.09 14.97 See Note See Note 40.84 Average 3.28 14.61 3.09 14.97 See Note See Note 32.98 Average 3.28 14.61 3.09 14.97 See Note See Note 29.92 71001163 3.36 14.68 3.04 15.18 See Note See Note 29.92 71001163 3.36 14.68 3.04 15.18 See Note See Note 29.92 71001163 3.58 11.52 3.48 10.80 30.99 Average 3.28 14.61 3.09 14.97 See Note See Note 29.92 71001149 3.58 11.52 3.48 10.90 See Note See Note 29.92 71001149 3.58 11.52 3.48 10.90 3.96 See Note See Note 29.92 71001149 3.58 11.52 3.48 10.90 3.96 See Note See Note 29.92 71001149 3.58 11.50 3.39 11.03 30.59	A2	3.24	13.60	2.80	13.52	See Note	See Note	32.80
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Average 3.89 11.63 334 10.62 See Note 34.37 A5 3.36 13.36 2.40 12.62 See Note 34.68 71001175 3.04 74.00 2.58 12.42 34.92 Average 3.38 15.54 15.55 12.35 34.92 Average 3.38 15.54 15.55 12.35 34.92 A6 3.04 12.16 2.60 11.62 See Note See Note 33.68 **100116* 3.74 11.48 2.58 11.48 34.22 A6 3.04 12.16 2.60 11.62 See Note See Note 33.68 **100116* 3.74 11.48 2.58 11.48 34.22 33.36 Average 3.26 11.69 2.53 11.54 33.75 33.75 37.75 37.90 32.98 32.98 32.98 32.98 32.98 32.98 32.98 32.98 32.94 32.94 33.	71001176	4.14	11.78	3.10	FD.64			33.98
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2.98 14.78 2.68 15.06 32.84 Average 2.97 14.88 2.59 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 40.84 3.30 14.02 2.92 14.84 37.90 39.68 Average 3.28 14.61 3.09 14.97 39.68 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	A7.	2.94	14.96	2.50	15.08	See Note	See Note	33.00
Average 2.97 14.88 2.59 15.09 32.94 A8 3.18 15.14 3.32 14.90 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	71001156	2.98	14.90	2.58	15.12			32.98
A8 3.18 15.14 3.32 14.90 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	1-0-03-0	2.98	14.78	2.68	15.06			32.84
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	Average	2.97	14.88	2.59	15.09			32.94
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 7.1001149 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	A8	3.18	15.14	3.32	14.90	See Note	See Note	40.30
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	71001153	3.36	14.68	3.04	15.18	-		40.84
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		3.30	14.02	2.92	14.84			37.90
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	Average	3.28	14.61	3.09	14.97			39.68
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	А9	3.02	12.14	3.42	11.34	See Note	See Note	29.92
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	71001149	3.58	11.52	3.48	10.80			30.18
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		2.88	11.74	3.28	10.96			
A10 3.66 10.34 3.60 9.66 See Note See Note 29.80	Average	3.16	11.80	3.39	11.03			
	A10	3.66	10.34	3.60	9.66	See Note	See Note	
, , , , , , .	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	Average							

Note: Consistent closing forces could not be obtained.