Test Lab Request Form Instructions

 The TLW request form can be found on the second worksheet (tabs at bottom of the screen) of this file. BARBER -

RE 0002473

- Please fill in all required fields as noted in red. Please fill in all other fields if applicable / possible. Instructions for each field will appear when you click on the field. The procedure field is an embedded MS Word object which will allow you to use formatting features not possible in Excel (i.e. paragraphs, bullets, numbering, etc).
- If possible, create your desired data table and/or graph formats in the additional worksheets of this file. This is preferred over extensive written procedures.
- If the request is for High Speed Video, specify any desired parameters (i.e. frame rate, resolution, etc.) in the "HSV Setup" tab. If not specified, the videographer will document the parameters that they chose to use.
- Once the form is completed, save this file on your personal computer using the following format:

TLW#### - Brief Description

Try to keep the description as concise as possible. Your name in the filename is no longer necessary.

Email the file to Phillip Reesor (primary) and Mark Hammond (secondary).
 Phillip will return your email with the assigned number and the assignee

Test Lab Work Request Form

	Engineer: Vince Not Date Submitted:	rton Project # : 241493
	Test Description:	Assemble new receiver insert assemblies in a Model 770 action and measure safety on/off forces
	Test Procedure:	 Continue test from TLW-2645. Use the same numbered receiver ins assemblies for this test. Assemble a receiver insert assembly into a Model 770 action. With the bolt closed measure safety on and off forces. Take 3 measurements and record each one. Cycle the safety on and off 50 times and then record forces again. Cycle the safety on and off 50 more times and then record forces again. Reverse the orientation of the safety pivot pin and insert it from the r side. Record safety on off forces with the pivot pin in this orientation. Ta measurements of each one. Repeat this on 6 assemblies. Take one of these receiver inserts and run it up to 3000 cycles on the cycle fixture. Measure the safety on/off forces after every 500 cycles. Measure sear lift after 3000 cycles. **The following steps are to be performed on a current receiver insert assen 12. Assemble a current receiver insert assembly into a Model 770 action 13. With the bolt closed measure safety on and off forces. Take 3 measurements and record each one. Cycle the safety on and off 50 more times and then record forces again. Cycle the safety on and off 50 more times and then record forces again. Cycle the safety on and off 50 more times and then record forces again. Take one of the new trigger block receiver inserts
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Test Lab Work Request Form

TLW #: 2656 Requested Completion Date: 12/18/2008

est from TLW-2645. Use the same numbered receiver insert

receiver insert assembly into a Model 770 action. olt closed measure safety on and off forces. Take 3 nts and record each one.

afety on and off 50 times and then record forces again. afety on and off 50 more times and then record forces again. corientation of the safety pivot pin and insert it from the right

ety on off forces with the pivot pin in this orientation. Take 3 nts of each one.

on 6 assemblies.

f these receiver inserts and run it up to 3000 cycles on the dry

e safety on/off forces after every 500 eyeles. ar lift after 3000 cycles.

eps are to be performed on a current receiver insert assembly r current receiver insert assembly into a Model 770 action. olt closed measure safety on and off forces. Take 3 nts and record each one.

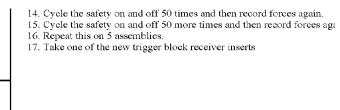
afety on and off 50 times and then record forces again. afety on and off 50 more times and then record forces again. on 5 assemblies.

if the new trigger block receiver inserts

TLW Form

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RE 0002475



BARBER - RE 0002476

Test Lab Work Request Form

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safety on and off 50 times and then record forces again. safety on and off 50 more times and then record forces again. son 5 assemblies.

f the new trigger block receiver inserts

Test Lab Work Request Form

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TLW Form

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	15. Cycle the safety on and off 50 more times and then record forces ag16. Repeat this on 5 assemblies.17. Take one of the new trigger block receiver inserts
Test Lab Work Request Form	
Special Requirements:	
Supplies Availability:	
Results Required:	
******This section to be completed by Test Lab Manager****	
Assigned To:	Kratzwald, Jeff Start Date:
Assigned Date:	12/11/2008 Completion Date:
Comments:	

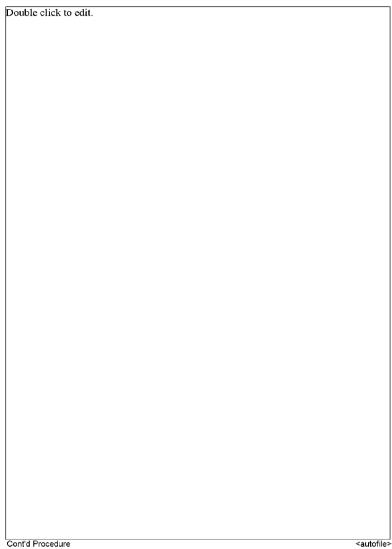
BARBER - RE 0002478

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afety on and off 50 more times and then record forces again. on 5 assemblies. If the new trigger block receiver inserts	
	Test Lab Work Request Form
	Data Only
	Formal Report
	000 0000

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Test Lab Work Request Form



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equest Form

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Cont'd Procedure

Fire Control #1

Note: Testing began with safety pivot pin having clip on left side.

Zero round level.			50 round level.	1		100 round level	100	
	Off	On		Off	On		Off	On
1	4.12	7.36	1	3.82	7.50	1	3.82	7.70
2	3.78	7.14	2		7.48		4.00	
3	3.86	7.24	3	3.88	8.30	3	4.12	
avg	3.92	7.25	avg	3.87	7.76	avg	3.98	8.37
Reverse orientation of safety pivot pin.								
		On						
1		7.76						
2		7.84						
3		8.74						
avg	3.75	8.11						
	CONTROL CONTRO			OTO TOTAL CONTRACTOR			SSORIE EUROPE	
500 round level			1000 round level			1500 round level		
500 round level.	Off		1000 round level	Off	On	1500 round level	Off	On
500 round level			1000 round level		On 7.72		ecomologemen	
GEORGE CONTROL STORM TO AN ANY TO THE CONTROL OF TH	3.46	On		4.08		1	Off	6.98
Grosses Control (1999)	3.46 3.48	On 7.20	1	4.08 4.34	7.72	1 2	Off 4.50	6.98 6.74
Grosses Control (1992) - 1992	3.46 3.48 3.18	On 7.20 7.18	1 2	4.08 4.34 3.92	7. 7 2 7.56	1 2	Off 4.50 4.22	6.98 6.74 6.58
1 2 3 avg	3.46 3.48 3.18	On 7.20 7.18 7.16 7.18	1 2 3 avg	4.08 4.34 3.92	7.72 7.56 7.46	1 2 3 avg	Off 4.50 4.22 4.46 4 .39	6.98 6.74 6.58
1 2 3	3.46 3.48 3.18	On 7.20 7.18 7.16 7.18	1 2 3	4.08 4.34 3.92	7.72 7.56 7.46	1 2 3	Off 4.50 4.22 4.46	6.98 6.74 6.58
1 2 3 avg	3.46 3.48 3.18	On 7.20 7.18 7.16 7.18	1 2 3 avg	4.08 4.34 3.92 4.11	7.72 7.56 7.46	1 2 3 avg	Off 4.50 4.22 4.46 4 .39	6.98 6.74 6.58 6.77
1 2 3 avg	3.46 3.48 3.18 3.37 Off	On 7.20 7.18 7.16 7.18	1 2 3 avg	4.08 4.34 3.92 4.11 Off	7.72 7.56 7.46 7.58	1 2 3 avg	Off 4.50 4.22 4.46 4.39	6.98 6.74 6.58 6.77
1 2 3 avg	3.46 3.48 3.18 3.37 Off 5.10	On 7.20 7.18 7.16 7.18	1 2 3 avg 2500 round level	4.08 4.34 3.92 4.11 Off	7.72 7.56 7.46 7.58 On 7.72	1 2 3 avg 3000 round level.	Off 4.50 4.22 4.46 4.39	6.98 6.74 6.58 6.77 On 7.18
1 2 3 avg 2000 round level.	3.46 3.48 3.18 3.37 Off 5.10 4.82	On 7.20 7.18 7.16 7.18 On 7.66	1 2 3 avg 2500 round level	4.08 4.34 3.92 4.11 Off 4.73	7.72 7.56 7.46 7.58 On 7.72 7.13	1 2 3 avg 3000 round level.	Off 4.50 4.22 4.46 4.39 Off 4.26	6.98 6.74 6.58 6.77 On 7.18 7.46

A A STATE OF THE S	THE RESIDENCE OF THE PARTY OF T	THE RESIDENCE OF THE PROPERTY	CONTRACTOR
Fire Control #2	\$8.00 to \$1.00 \$1.		
THE CONSTRUCTOR OF THE	\$100 OC \$100 O		S 650 FEMALE F # # 10 - 600 S 5 F 7 F 100 E 6 F 7 F 7 F 7 F 7 F 7 F 7 F 7 F 7 F 7 F

Note: Testing began with safety p	ovot pin having clip on left side	1010101010101							
Zero round level.				50 round level.			100 round level.		
		Off	On		Off	On		Off	On
	1	3.78	6.48	1	4.18	7.92	1	4.56	10.76
	2	3.56		2		8.62	2		12.84
	3	3.82		3		9.40	3		12.82
ε	avg	3.72	6.97	avg	4.23	8.65	avg	4.42	12.14
Reverse orientation of safety pi	vot pin.								
	167 h 9 co 1 su -				18				
		Off	On						
	1	4.16	10.70						
	2	4.22	10.12						
	3	4.20	11.32						
a	avg	4.19	10.71						
500 round level				1000 round level.			1500 round level		
500 round level.		Off	On	1000 round level.	Off	On	1500 round level.	Off	On
500 round level.	1		On 7.20	1000 round level	Off 6.68	On 8.32	1500 round level.	Off 5.96	On 7.68
500 round-level.	2	5.36 6.60	7.20 7.64	1 2	6.68 6.84	8.32 8.38	1 2	5.96 5.82	7.68 7.84
500 round level.		5.36	7.20 7.64	1	6.68 6.84	8.32	1 2	5.96 5.82	7.68
Global profession from the register of the design of the register of the regis	2	5.36 6.60	7.20 7.64 7.60	1 2	6.68 6.84 7.12	8.32 8.38	1 2	5.96 5.82 6.08	7.68 7.84
Global profession from the register of the design of the register of the regis	2 3	5.36 6.60 5.44	7.20 7.64 7.60	1 2 3 avg	6.68 6.84 7.12	8.32 8.38 8.64	1 2 3	5.96 5.82 6.08	7.68 7.84 7.76 7.76
Graduation retrieves the control of	2 3	5.36 6.60 5.44	7.20 7.64 7.60	1 2 3 avg	6.68 6.84 7.12 6.88	8.32 8.38 8.64	1 2 3 avg	5.96 5.82 6.08 5.95	7.68 7.84 7.76 7.76
Graduation retrieves the control of	2 3	5.36 6.60 5.44 5.80	7.20 7.64 7.60 7.48	1 2 3 avg	6.68 6.84 7.12 6.88	8.32 8.38 8.64 8.45	1 2 3 avg	5.96 5.82 6.08 5.95	7.68 7.84 7.76 7.76
Graduation retrieves the control of	2 3 avg	5.36 6.60 5.44 5.80	7.20 7.64 7.60 7.48 On	1 2 3 avg 2500 round level.	6.68 6.84 7.12 6.88 Off 6.68	8.32 8.38 8.64 8.45	1 2 3 avg 3000 round level.	5.96 5.82 6.08 5.95 Off 6.84	7.68 7.84 7.76 7.76 On
Graduation retrieves the control of	2 3 avg	5.36 6.60 5.44 5.80 Off 6.36	7.20 7.64 7.60 7.48 On 10.76 9.80	1 2 3 avg 2500 round level.	6.68 6.84 7.12 6.88 Off 6.68 6.68	8.32 8.38 8.64 8.45 On	1 2 3 avg \$000 round level.	5.96 5.82 6.08 5.95 Off 6.84 5.80	7.68 7.84 7.76 7.76 0n 10.34
2000 round level.	2 3 awg	5.36 6.60 5.44 5.80 Off 6.36 5.46	7.20 7.64 7.60 7.48 On 10.76 9.80 9.08	1 2 3 avg 2500 round level 1 2	6.68 6.84 7.12 6.88 Off 6.68 6.68 7.12	8.32 8.38 8.64 8.45 On 10.02 10.56	1 2 3 avg \$600 round level.	5.96 5.82 6.08 5.95 Off 6.84 5.80 6.56	7.68 7.84 7.76 7.76 On 10.34 9.72

Fire Control #3

Note: Testing began with safety pivot pin having clip on right side

2 3 31 1	arriaving one on right side					
Zero round level.			50 round level.		100 round level.	ä
	Off	On	Off	On	Of	On
1	4.20	6.06	1 4.20	6.18	1 4.3	2 6.64
2	4.34	5.84	2 3.90	7.48	2 4.4	6.92
3	4.76	6.04	3 3.84	6.62	3 3.1	8.58
avg	4.43	5.98	avg 3.98	6.76	avg 3.9	7.38
Reverse orientation of safety pivot p	in.					
	Off	On				
1	4.26					
2	3.93	6.78				
3	4.32	6.84				
avg	4.17	6.71				
500 round level			1000 round level.		1500 round level	
500 round level	Off	On	Off		Of	On
о повижения по том по по том	5.66	On 7.00	Off 1 5.78	7.02	Of 1 4.8	7.12
The second secon	5.66 4.66	On 7.00 6.94	Off 1 5.78 2 6.68	7.02 7.94	Of 1 4.8 2 6.4	7.12 7.54
1 2 3	5.66 4.66 6.26	On 7.00 6.94 7.94	Off 1 5.78 2 6.68 3 7.66	7.02 7.94 8.10	Of 1 4.8 2 6.4 3 6.1	7.12 7.54 7.32
The second secon	5.66 4.66	On 7.00 6.94 7.94	Off 1 5.78 2 6.68	7.02 7.94 8.10	Of 1 4.8 2 6.4 3 6.1	7.12 7.54
1 2 3	5.66 4.66 6.26	On 7.00 6.94 7.94 7. 29	Off 1 5.78 2 6.68 3 7.66	7.02 7.94 8.10 7.69	Of 1 4.8 2 6.4 3 6.1	7.12 7.54 7.32 7.33
1 2 3 avg	5.66 4.66 6.26 5.53 Off	On 7.00 6.94 7.94 7.29	Off 1 5.78 2 6.68 3 7.66 avg 6.71 2500 round level.	7.02 7.94 8.10 7.69	Of 1 4.8 2 6.4 3 6.1 avg 5.8 3000 round level.	7.12 1 7.54 1 7.32 2 7.33
2000 round levet.	5.66 4.66 6.26 5.53 Off 5.94	On 7.00 6.94 7.94 7.29 On 7.24	Off 1 5.78 2 6.68 3 7.66 avg 6.71 2500 round level. Off 1 6.80	7.02 7.94 8.10 7.69 On 7.88	Of 1 4.8 2 6.4 3 6.1 avg 5.8 3000 round level.	7.12 1 7.54 1 7.32 2 7.33 On 0 7.42
1 2 3 avg 2000 round level.	5.66 4.66 6.26 5.53 Off 5.94 6.62	On 7.00 6.94 7.94 7.29 On 7.24 6.84	Off 1 5.78 2 6.68 3 7.66 avg 6.71 2500 round level. Off 1 6.80 2 6.08	7.02 7.94 8.10 7.69 On 7.88 7.24	Of 1 4.8 2 6.4 3 6.1 avg 5.8 3000 round level. Of 1 5.8 2 6.3	3 7.12 4 7.54 4 7.32 2 7.33 • On 0 7.42 4 7.26
2000 round levet.	5.66 4.66 6.26 5.53 Off 5.94	On 7.00 6.94 7.94 7.29 On 7.24 6.84 7.14	Off 1 5.78 2 6.68 3 7.66 avg 6.71 2500 round level. Off 1 6.80	7.02 7.94 8.10 7.69 On 7.88 7.24 7.72	Of 1 4.8 3 6.1 avg 5.8 3000 round level. Of 1 5.8 2 6.3 3 6.7 3 6.7	7.12 1 7.54 1 7.32 2 7.33 On 0 7.42

Fire Control # 4

Note: Testing began with safety pivot pin having clip on right side.

Zero round level.	a dimining dia anakan		50 round level.			100 round level.		
	Off	On		Off	On		Off	On
1	3.72		1		6.76			9.38
2	3.66		2		7.10			10.24
3	3.92	7.14	3	3.80	7.23		3.82	10.78
avg	3.77	6.79	avg	4.07	7.03	avg 3	3.92	10.13
-			-			-		
Reverse orientation of safety pivot pin.								
	Off	On						
1	3.14							
2	3.08							
3	3.58							
avg	3.27	7.47						
500 round level.			1000 round level	V 11 11 11 11 11 11 11 11 11 11 11 11 11		1500 round level		
500 round level.	O SE		1000 round level	04	000		szeemesiins	0.5
Society and the second contract of the contrac	Off	On			On		Off	On 7.82
	6.08	O n 8.56	1	5.22	7.88	**************************************	Off 5.00	7.82
посывающим и то то е на постоя по посывающим обращений по сы высовый по то	6.08 6.14	On 8.56 8.78	1 2	5.22 5.70	7.88 8.20	1 8 2 5	Off 5.00 5.52	7.82 7.36
1 2 3	6.08 6.14 6.70	On 8.56 8.78 8.98	1 2 3	5.22 5.70 6.20	7.88 8.20 7.86	1 8 2 5 3 6	Off 5.00 5.52 6.30	7.82 7.36 7.58
посывающим и то то е на постоя по посывающим обращений по сы высовый по то	6.08 6.14	On 8.56 8.78 8.98	1 2	5.22 5.70 6.20	7.88 8.20	1 6 2 5 3 6 6	Off 5.00 5.52 6.30	7.82 7.36
1 2 3	6.08 6.14 6.70	On 8.56 8.78 8.98 8.77	1 2 3	5.22 5.70 6.20	7.88 8.20 7.86 7.98	1 6 2 5 3 6 avg 5	Off 5.00 5.52 6.30	7.82 7.36 7.58
1 2 3 avg	6.08 6.14 6.70	On 8.56 8.78 8.98 8.77	1 2 3 avg	5.22 5.70 6.20 5.71	7.88 8.20 7.86 7.98	1 8 2 5 3 6 avg 5	Off 5.00 5.52 6.30 5.94	7.82 7.36 7.58
1 2 3 avg	6.08 6.14 6.70 6.31	On 8.56 8.78 8.98 8.77	1 2 3 avg	5.22 5.70 6.20 5.71 Off	7.88 8.20 7.86 7.98	1 6 2 5 3 6 avg 5	Off 5.00 5.52 6.30 5.94	7.82 7.36 7.58 7.59
1 2 3 avg	6.08 6.14 6.70 6.31 Off	On 8.56 8.78 8.98 8.77 On 7.02	1 2 3 avg 2500 round level	5.22 5.70 6.20 5.71 Off 6.16	7.88 8.20 7.86 7.98	1 6 2 5 3 6 avg 5 5000 round level.	Off 5.00 5.52 6.30 5.94	7.82 7.36 7.58 7.59 On 8.82
1 2 3 avg	6.08 6.14 6.70 6.31 Off 5.70	On 8.56 8.78 8.98 8.77 On 7.02 7.06	1 2 3 avg 2500 round level.	5.22 5.70 6.20 5.71 Off 6.16 6.10	7.88 8.20 7.86 7.98 On 7.54	1 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Off 5.00 5.52 6.30 5.94 Off 5.78 5.48	7.82 7.36 7.58 7.59 On 8.82

Fire Control #5
Note: Testing began with safety pivot pin having clip on right side.

Zero round level.	i militar diserse succ		50 round level	• (197 <u>=</u> 91 (197)		100 round level		
	Off	On		Off	On	(Off	On
1	3.98	7.44	1	3.92	7.78	1 4	.08	8.08
2	3.76	7.02	2	3.88	7.96	2 3	.76	8.26
3	3.76	7.16	3	3.82	7.70	3 3	.78	8.38
avg	3.83	7.21	avg	3.87	7.81	avg 3	.87	8.24
Reverse orientation of safety pivot pin								
	Off	On						
1	4.06							
2	3.72	8.14						
3	4.02	8.08						
avg	3.93	8.01						

Fire Control #6
Note: Testing began with safety pivot pin having clip on right side.

Zero round level.	201 (11 21)		50 tound level	e të së në		100 round level.	i mie i de	
	Off	On		Off	On		Off	On
1	3.62	7.58	1	4.04	10.48	1	4.32	11.42
2	3.46	7.30	2	3.98	10.30	2	4.20	10.20
3	3.94	7.44	3	3.88	10.14	3	4.16	9.42
avg	3.67	7.44	avg	3.97	10.31	avg	4.23	10.35
				Since Management of the Control of t				

	Off On
1	4.44 9.98
2	4.18 9.42
3	4.00 9.58
vg	4.21 9.66

A Zero round level.	L		50 round level.			100 round level.		
	Off	On		Off	On		Off	On
1	1.82	4.02	1	2.26	3.90	1	2.34	3.94
2	2.06	4.52	2	2.26	3.96	2	2.34	4.08
3	1.86	4.02	3	1.82	3.94	3	2.14	4.22
avg	1.91	4.19	avg	2.11	3.93	avg	2.27	4.08
B Zero round level.			50 round level.			100 round level		
	Off	On		Off	On		Off	On
1	1.80	4.82	1	1.74	4.06	1	2.52	4.28
2	1.70	4.06	2	2.16	4.72	2	2.34	4.14
3	1.76	4.02	3	2.12	4.14	3	2.24	4.16
avg	1.75	4.30	avg	2.01	4.31	avg	2.37	4.19
Zero round level.			50 round level.			100 round level.		
	Of f	On		Off	On		Off	On
1	2.48	4.68	1	2.20	4.36	1	2.10	4.80
2	2.10	4.62	2	1.76	4.70	2	1.86	4.66
3	1.88	4.72	3	1.74	4.64	3	1.86	4.86
avg	2.15	4.67	avg	1.90	4.57	avg	1.94	4.77
D Zero round level.		l	50 round level.			100 round level		
		i						
	Off	On		Off	On		Off	On
1	1.48	4.10	1	1.70	4.16	1	1.76	4.36
2	1.70	3.92	2	1.74	3.96	2	1.74	4.10
3	1.48	3.72	3	1.66	4.30	3	1.68	4.52
avg	1.55	3.91	avg	1.70	4.14	avg	1.73	4.33
€								
Zero round level.	Economic cores		50 round level.	4111717-000		100 round level.	(410 430 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	Off	On		Off	On		Off	On
1	1.52	4.10	1	1.60	3.98	1	1.72	4.42
2	1.70	4.30	2	1.48	4.16	2	1.76	4.48
3	1.58	4.10	3	1.52	3.98	3	1.70	4.50
avg	1.60		avg	1.53	4.04	avg	1.73	4.47