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.
- 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

BARBER - RE 0002870

Test Lab Work Request Form

Engineer: Vince Norton **Project #:** 241493

Date Submitted: 12/10/2008

Test Description:

Assemble new receiver insert assemblies in a Model 770 action and measure safety on/off forces

Test Procedure:

1. Continue test from TLW-2645. Use the same numbered receiver ins assemblies for this test.
2. Assemble a receiver insert assembly into a Model 770 action.
3. With the bolt closed measure safety on and off forces. Take 3 measurements and record each one.
4. Cycle the safety on and off 50 times and then record forces again.
5. Cycle the safety on and off 50 more times and then record forces ag
6. Reverse the orientation of the safety pivot pin and insert it from the r side.
7. Record safety on off forces with the pivot pin in this orientation. Ta measurements of each one.
8. Repeat this on 6 assemblies.
9. Take one of these receiver inserts and run it up to 3000 cycles on the cycle fixture.
10. Measure the safety on/off forces after every 500 cycles.
11. 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.
14. Cycle the safety on and off 50 times and then record forces again.
15. Cycle the safety on and off 50 more times and then record forces ag
16. Repeat this on 5 assemblies.
17. Take one of the new trigger block receiver inserts

BARBER - RE 0002871

Test Lab Work Request Form

TLW #: 2656

Requested Completion Date: 12/18/2008

est from TLW-2645. Use the same numbered receiver insert
for this test.
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.
orientation 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.
e safety on/off forces after every 500 cycles.
ar lift after 3000 cycles.

eps are to be performed on a current receiver insert assembly
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.
f the new trigger block receiver inserts

BARBER - RE 0002872

Test Lab Work Request Form

14. Cycle the safety on and off 50 times and then record forces again.
15. Cycle the safety on and off 50 more times and then record forces ag
16. Repeat this on 5 assemblies.
17. Take one of the new trigger block receiver inserts

BARBER - RE 0002873

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.
f the new trigger block receiver inserts

Test Lab Work Request Form

BARBER - RE 0002874

RE0002846

15. Cycle the safety on and off 50 more times and then record forces ag
16. 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 0002875

safety on and off 50 more times and then record forces again.
on 5 assemblies.
f the new trigger block receiver inserts

Test Lab Work Request Form

Data Only
Formal Report

BARBER - RE 0002876

RE0002848

Test Lab Work Request Form

Double click to edit.

Cont'd Procedure <autofile>

BARBER - RE 0002877

equest Form

HIGH SPEED VIDEO SETUP RECORD

ARCHIVE:

TLW

Camera Operator:

File Names:
Convention:

Purpose of Test:

Camera: ◉ APX-RS ○ 1024PCI ○ Canon 20D

Resolution (WxH, pixels):

Lens:

Equipment Height (in. above or below subject, no entry = in-plane with subject)

Equipment
Camera
L1 1000W
L2 1000W
L3 8-Bulb PAL

Set-up Diagram (w/linear dimensions)

not to scale.

BARBER - RE 0002879

ALL FILES

REPRESENTATIVE FILE(S) NO ARCHIVE

File Name:

2656

Date:

Project No.:

TLWNo Description.avi i.e. *[TLW2162 Shot 1 18in bbl GB.avi], [TLW2162 Shot 2 18in bbl GB.avi]*

1024PCI Canon 20D

Shutter Speed:

Frame Rate (fps):

Type (C or F):

Focal Length (mm):

f-stop used:

zoom used (mm):

Position	*Target*	*Symbol*	*Equipment*	*Position*	*Target*	*Symbol*

Fire Control #1

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

Zero round level.

	Off	On
1	4.12	7.36
2	3.78	7.14
3	3.86	7.24
avg	**3.92**	**7.25**

50 round level.

	Off	On
1	3.82	7.50
2	3.90	7.48
3	3.88	8.30
avg	**3.87**	**7.76**

100 round level.

	Off	On
1	3.82	7.70
2	4.00	8.20
3	4.12	9.20
avg	**3.98**	**8.37**

Reverse orientation of safety pivot pin.

	Off	On
1	3.66	7.76
2	3.80	7.84
3	3.78	8.74
avg	**3.75**	**8.11**

500 round level.

	Off	On
1	3.46	7.20
2	3.48	7.18
3	3.18	7.16
avg	**3.37**	**7.18**

1000 round level.

	Off	On
1	4.08	7.72
2	4.34	7.56
3	3.92	7.46
avg	**4.11**	**7.58**

1500 round level.

	Off	On
1	4.50	6.98
2	4.22	6.74
3	4.46	6.58
avg	**4.39**	**6.77**

2000 round level.

	Off	On
1	5.10	7.66
2	4.82	8.60
3	4.91	7.94
avg	**4.94**	**8.07**

2500 round level.

	Off	On
1	4.73	7.72
2	4.54	7.13
3	4.63	7.02
avg	**4.63**	**7.29**

3000 round level.

	Off	On
1	4.26	7.18
2	4.06	7.46
3	4.04	6.50
avg	**4.12**	**7.05**

BARBER - RE 0002881

Fire Control #2
Note: Testing began with safety pivot pin having clip on left side

Zero round level.

	Off	On
1	3.78	6.48
2	3.56	6.82
3	3.82	7.60
avg	**3.72**	**6.97**

50 round level.

	Off	On
1	4.18	7.92
2	4.28	8.62
3	4.24	9.40
avg	**4.23**	**8.65**

100 round level.

	Off	On
1	4.56	10.76
2	4.52	12.84
3	4.18	12.82
avg	**4.42**	**12.14**

Reverse orientation of safety pivot pin.

	Off	On
1	4.16	10.70
2	4.22	10.12
3	4.20	11.32
avg	**4.19**	**10.71**

500 round level.

	Off	On
1	5.36	7.20
2	6.60	7.64
3	5.44	7.60
avg	**5.80**	**7.48**

1000 round level.

	Off	On
1	6.68	8.32
2	6.84	8.38
3	7.12	8.64
avg	**6.88**	**8.45**

1500 round level.

	Off	On
1	5.96	7.68
2	5.82	7.84
3	6.08	7.76
avg	**5.95**	**7.76**

2000 round level.

	Off	On
1	6.36	10.76
2	5.46	9.80
3	5.68	9.08
avg	**5.83**	**9.88**

2500 round level.

	Off	On
1	6.68	10.02
2	6.68	10.56
3	7.12	9.80
avg	**6.83**	**10.13**

3000 round level.

	Off	On
1	6.84	10.34
2	5.80	9.72
3	6.56	10.02
avg	**6.40**	**10.03**

BARBER - RE 0002882

Fire Control #3

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

Zero round level.

	Off	On
1	4.20	6.06
2	4.34	5.84
3	4.76	6.04
avg	**4.43**	**5.98**

50 round level.

	Off	On
1	4.20	6.18
2	3.90	7.48
3	3.84	6.62
avg	**3.98**	**6.76**

100 round level.

	Off	On
1	4.32	6.64
2	4.48	6.92
3	3.14	8.58
avg	**3.98**	**7.38**

Reverse orientation of safety pivot pin.

	Off	On
1	4.26	6.50
2	3.93	6.78
3	4.32	6.84
avg	**4.17**	**6.71**

500 round level.

	Off	On
1	5.66	7.00
2	4.66	6.94
3	6.26	7.94
avg	**5.53**	**7.29**

1000 round level.

	Off	On
1	5.78	7.02
2	6.68	7.94
3	7.66	8.10
avg	**6.71**	**7.69**

1500 round level.

	Off	On
1	4.88	7.12
2	6.44	7.54
3	6.14	7.32
avg	**5.82**	**7.33**

2000 round level.

	Off	On
1	5.94	7.24
2	6.62	6.84
3	6.18	7.14
avg	**6.25**	**7.07**

2500 round level.

	Off	On
1	6.80	7.88
2	6.08	7.24
3	6.44	7.72
avg	**6.44**	**7.61**

3000 round level.

	Off	On
1	5.80	7.42
2	6.34	7.26
3	6.72	7.56
avg	**6.29**	**7.41**

BARBER - RE 0002883

Fire Control # 4

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

Zero round level.

	Off	On
1	3.72	6.38
2	3.86	6.86
3	3.92	7.14
avg	**3.77**	**6.79**

50 round level.

	Off	On
1	3.92	6.76
2	4.50	7.10
3	3.80	7.23
avg	**4.07**	**7.03**

100 round level.

	Off	On
1	4.16	9.38
2	3.78	10.24
3	3.82	10.78
avg	**3.92**	**10.13**

Reverse orientation of safety pivot pin.

	Off	On
1	3.14	7.28
2	3.08	7.58
3	3.58	7.56
avg	**3.27**	**7.47**

500 round level.

	Off	On
1	6.08	8.56
2	6.14	8.78
3	6.70	8.98
avg	**6.31**	**8.77**

1000 round level.

	Off	On
1	5.22	7.88
2	5.70	8.20
3	6.20	7.86
avg	**5.71**	**7.98**

1500 round level.

	Off	On
1	6.00	7.82
2	5.52	7.36
3	6.30	7.58
avg	**5.94**	**7.59**

2000 round level.

	Off	On
1	5.70	7.02
2	5.96	7.06
3	5.44	7.40
avg	**5.70**	**7.16**

2500 round level.

	Off	On
1	6.16	7.54
2	6.10	7.46
3	6.08	7.32
avg	**6.11**	**7.44**

3000 round level.

	Off	On
1	5.78	8.82
2	5.48	8.10
3	5.94	8.50
avg	**5.73**	**8.47**

BARBER - RE 0002884

Fire Control # 5

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

Zero round level.

	Off	On
1	3.98	7.44
2	3.76	7.02
3	3.76	7.16
avg	**3.83**	**7.21**

50 round level.

	Off	On
1	3.92	7.78
2	3.88	7.96
3	3.82	7.70
avg	**3.87**	**7.81**

100 round level.

	Off	On
1	4.08	8.08
2	3.76	8.26
3	3.78	8.38
avg	**3.87**	**8.24**

Reverse orientation of safety pivot pin.

	Off	On
1	4.06	7.80
2	3.72	8.14
3	4.02	8.08
avg	**3.93**	**8.01**

BARBER - RE 0002885

Fire Control # 6

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

Zero round level.

	Off	On
1	3.62	7.58
2	3.46	7.30
3	3.94	7.44
avg	**3.67**	**7.44**

50 round level.

	Off	On
1	4.04	10.48
2	3.98	10.30
3	3.88	10.14
avg	**3.97**	**10.31**

100 round level.

	Off	On
1	4.32	11.42
2	4.20	10.20
3	4.16	9.42
avg	**4.23**	**10.35**

Reverse orientation of safety pivot pin.

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

BARBER - RE 0002886