Test Lab Work Request Form

Rev.3 -20 April, 2000

Test Description:

1. Check headspace.

- 2. Shoot 200 rounds each on two guns using heaviest grain weight bullet for .270 and .30-06 calibers.
- 3. Visually inspect bolt plug for signs of excessive wear, cracking, or movement of spring retainer for the first 10 rounds and every 25 rounds thereafter.
- 4. Check and record headspace.
- 5. Magnaflux bolt plugs and report results. Have Metallurgist send short statement of acceptance or rejection to Brad Howard.
- 6. Check with Brad Howard for confirmation before proceeding to steps 7 & 8.
- 7. Drop test each gun according to standard SAAMI guidelines starting with the least abusive test and then progressing to the most abusive test.
- 8. Obstructed Bore test stest 30.06 rifle using all std. safety procedures to determine witness paper penetrations (shooters face) if any.
- 9. Return both samples to Brad Howard.

Resource Usage	: Test Results Required:	
Manpower Requirements –	Formal Report: n Data Only: yes	
E-allita Baguinamanta	Requested Completion Date: 2-7-03	
Facility Requirements –		
Required Materials/Parts/E	quipment (include quantities):	
· 		
Test Parts Availability Date	: 1-30-03	
Start Date:	Test Assigned To: Jesse Arnold	
Completion Date: 2/7/03		
Report Date:	Assignment Date: 01/31/03	

PROJECT# 241359

2/5/2003

TLW 1075_____

EET TEST OF STEEL M710 CA DOJ BOLT PLUG.

GUN 71053511 30-06	HEAD SPACE 0.005	AMMO R30062 150GR	ROUNDS 200	COMMENTS BOLT PLUG INSPECTED EACH 10 RDS. NO EXCESSIVE WEAR OR CRACKING.	HEAD SPACE 0.005
71026291 0.27	0.004	R270W4 150GR	200	BOLT PLUG INSPECTED EACH 10 RDS. NO EXCESSIVE WEAR OR CRACKING.	0.005

BOLT PLUGS TURNED OVER TO J. URBON TO BE MAGNAFLUXED. REPORT SENT TO BRAD HOWARD. NO PROBLEMS NOTED.

DROP TESTED EACH GUN ACCORDING TO SAAMI GUIDELINES WITH NO PROBLEMS NOTED.

OBSTRUCTED BORE TEST.

GUN

CAL.

71053511 30-06

COMMENTS

NO WITNESS PAPER PENETRATIONS

HIGH SPEED VIDEO TAKEN, 3

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NOTE: BOLT PLUGS RETURNED TO BRAD HOWARD.

ET31451

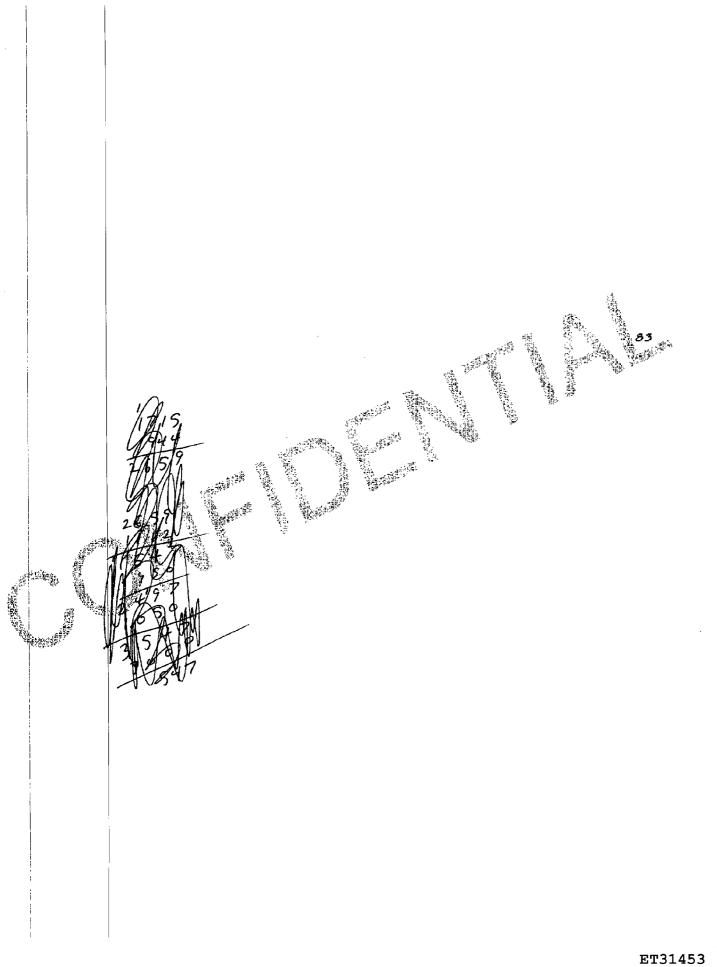
Test Lab Work Request Form

Rev.3 -20 April, 2000 Tracking #: TLW 1075 Date Submitted: 12-19-02 Engineer: B. Howard Project # : 241359 Test Objective: EET test of steel M710 CA DOJ bolt plug. **Test Description:** 1. Check headspace. 2. Shoot 200 rounds each on two guns using heaviest grain weight bullet for .270 3. Visually inspect bolt plug for signs of excessive wear, cracking, or movement of spring retainer for the first 10 rounds - and every 25 rounds thereafter. 4. Check and record headspace. 5. Magnaflux bolt plugs and report results. Have Metallurgist send short statement of acceptance or rejection to Brad Howard 6. Check with Brad Howard for confirmation before proceeding to steps 7 & 8. 7. Drop test each gun according to standard SAAMI guidelines starting with the least abusive test and then progressing to the most abusive test. 8. Obstructed Bore test stest 30.06 rifle using all std. safety procedures to determine witness paper penetrations (shooters face) - if any. 9. Return both samples to Brad Howard. Test Results Required: Resource Usage: Formal Report: n Data Only: yes: Manpower Requirements -Requested Completion Date: 2-7-03 Facility Requirements -Required Materials/Parts/Equipment (include quantities): Test Parts Availability Date: 1-30-03 Start Date: /- 3/-03 Test Assigned To: Jesse Arnold **Completion Date:**

Assignment Date: 01/31/03

Report Date: 2-5-03

(7990)



PROJECT# 241359

2/5/2003

TLW 1075

EET TEST OF STEEL M710 CA DOJ BOLT PLUG.

GUN	HEAD SPACE	AMMO	ROUNDS	COMMENTS	HEAD SPACE
71053511	0.005	R30062	200	BOLT PLUG INSPECTED EACH 10 RDS.	0.005
30-06		150GR		NO EXCESSIVE WEAR OR CRACKING.	
71026291 0.27	0.004	R270W4 150GR	200	BOLT PLUG INSPECTED EACH 10 RDS. NO EXCESSIVE WEAR OR CRACKING.	0.005

BOLT PLUGS TURNED OVER TO J. URBON TO BE MAGNAFLUXED. REPORT SENT TO BRAD HOWARD. NO PROBLEMS NOTED.

DROP TESTED EACH GUN ACCORDING TO SAAMI GUIDELINES WITH NO PROBLEMS NOTED.

OBSTRUCTED BORE TEST.

GUN 71053511 CAL. 30-06 COMMENTS

NO WITNESS PAPER PENETRATION

HIGH SPEED VIDEO TAKEN.

ET31455

97 2

99 4

47 2

49 4

50 5

Page 1 TOTAL RDS -

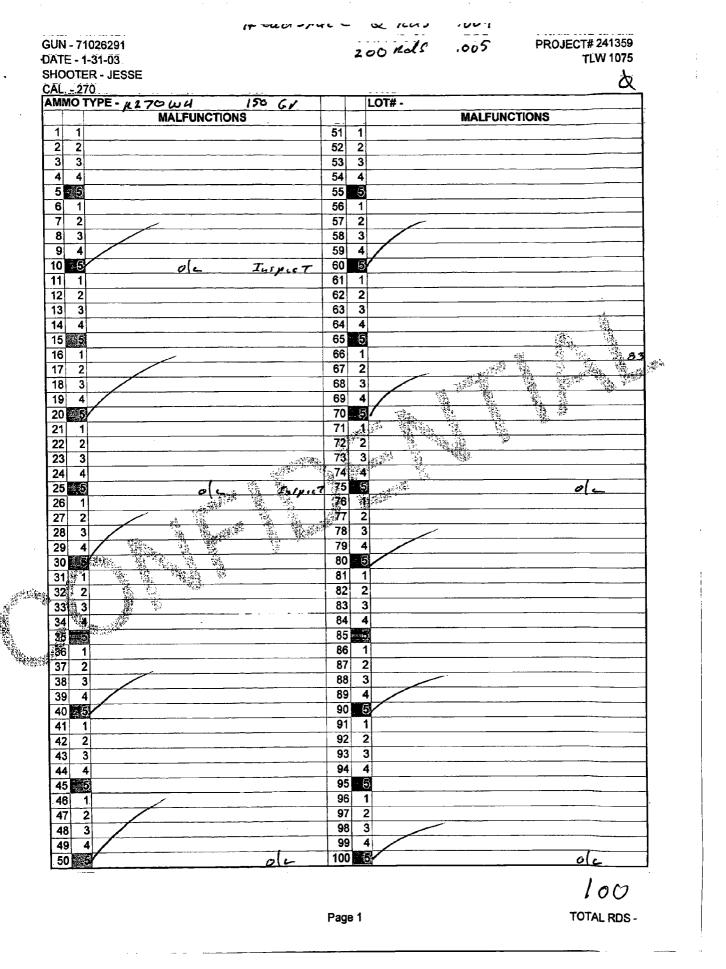
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Page 1 TOTAL RDS -



TLW	1075
rolect No.	24 1359

S.A.A.M.I. JAR-OFF, DRO)P &	ROTATION	TEST
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V.A.A.W.I.	JAN-UII, DNUF &	NOTATION 1EST
Firecontrol No.	Firecontrol Type:	Date: 2 -/-03
Dry Cycles/Rounds Completed:	Stock Type	Engagement at Start . 0199
Model No. 7/0 Serial N	0. 7/02629/	(.270) Engagement at End ,0202
Trigger Pull at Start of Test (1) 3.75	(2) 4,25 (3) 4	<u>(4)</u> <u>4</u> <u>(5)</u> <u>3,</u> <u>75</u> <u>(6)</u> <u>4</u>
Average Trigger Pull at Start of Test:	Std. Dev. o.	Trigger Pull at Start of Test:
Trigger Pull at End of Test (1) 4	(2) 4 (3) 4, 2	S (4) 4 (5) 4 (6) 3, 75
Average Trigger Pull at End of Test:	Std. Dev. o	f Trigger Pull at End of Test:
Ad	ditional Notes and Com	Tester Initials: JA JJW
	*.	
For additional details on the p	proper procedures to be	ised for this Test Procedure refer to:
• •	ANSI / SAAMI Z299.5	-199n
SAAMI Specifications for St	988 (20 5) 1984 (205)	
Firearm ro Chamber After each 12 inch drop (saf	eady to fire, Safe in "Fire Magazine loaded to cape drop, fire Primed Case t ety in "Fire" position) - (ameter (Shore A) Rubber Matt " position, Fresh Primed Case in acity with Dummy Rounds. o verify firearm will still function. one drop per orientation. The ISS will be set in the unlocked
	for all six orientations of	
Orientation ISS	Unlocked	Comments
Barrel Vertical, Muzzle Up:		
		·
Barrel Vertical, Muzzle Down:	Pass Fail	
Barrel Horizontal, Left side of Stock Up:	PassFail	
Barrel Horizontal, Right side of Stock Up:	Pass Fail	
Barrel Horizontal, Bottom of Stock Up:	Pass V Fail	
Barrel Horizontal, Bottom of Stock Down:	Pass V Fail	
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No. 1995		
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$f = \mathbf{f}_{1}\mathbf{o}\mathbf{e}_{1} \cdot f$		Pag⇒ 1 of 2 Z101\DROPTEST_RE∀3.DOC

ET31459

TLW.	975
Project No	241359

S.A.A.M.I. JAR-OFF, DROP & ROTATION TEST

SAAMI Specifications for Standard Drop Test:

Drop Test:

48-inch drop - onto 1" thick 85 durameter (Shore A) Rubber Matt Firearm not ready to fire, Safe in "Safe" position, Fresh Primed Case in Chamber, Magazine loaded to capacity with Dummy Rounds. After each drop Fire Primed Case to verify firearm will still function.

48 inch drop (safety in "Safe" position) - one drop per orientation.

Note: for Firearms with the ISS system installed - The Firearms will be set with the

ISS system in the unlocked position for all six orientations of the Drop Test

Orientation	ISS Unlocked	Comments
Barrel Vertical, Muzzle Up:	Pass Fail	
Barrel Vertical, Muzzle Down:	PassFail	
Barrel Horizontal, Left side of Stock U	lp: PassFail	
Barrel Horizontal, Right side of Stock	Up: PassFail	
Barrel Horizontal, Bottom of Stock Up	r: PassFail	
Barrel Horizontal, Bottom of Stock Do	own: Pass Fail	
· SAAMI Specifications for	r Standard Rotation Test:	
Drop - Firear in Cha After o "Rotation Test" <u>Note: for Firearms w</u>	mber, Magazine loaded to death drop Fire Primed Case " (safety in "Safe" position with the ISS system installed	(Shore A) Rubber Matt "Safe" position, Fresh Primed Case capacity with Dummy Rounds. to verify firearm will still function.
Orientation	ISS Unlocked	Comments
Firearm Vertical, Drop so left side of		nil
Firearm Vertical, Drop so right side of	f Stock is Up: Pass Fac	il
Notes: (continue on back of sheet if necessa	ייי	
		Tester's Initials JA JW
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TLW.	1075
roiect No.	241359

S.A.A.M.I. JAR-OFF, DROP & ROTATION TEST

Firecontrol No Fir	recentral Time	Data: 2 1 - 6 2
Firecontrol No. Fire Dry Cycles/Rounds Completed:	Stock Type.	Fingagement at Start A2A2
Model No. 7/0 Serial No.	2/0535//	70 - 06 Fnoagement at Fnd 0208
Trigger Pull at Start of Test (1) 4.25	(2) 4 (3) 4	(4) 4.25 (5) 4.25 (6) 4
Average Trigger Pull at Start of Test:	Std. Dev. of Ti	rigger Pull at Start of Test:
Trigger Pull at End of Test (1) 4,25	(2) 4,25 (3) 4	(4) 4.5 (5) 4.25 (6) 4
Average Trigger Pull at End of Test:	Std. Dev. of T	rigger Pull at End of Test:
•		
Addi	el 1 Massa and Commo	Tester Initials: JA JW
Addit	tional Notes and Commer	nts
		
<u> </u>		
	_ <u>+</u>	
E Disianal datails on the nu		
• •		el for this Test Procedure refer to:
_ A	ANSI / SAAMI Z299.5-19	990,
SAAMI Specifications for Stand	data Jar-Off Test	
	, St. The Car Land	
Jar-Off Test: 12-inch drop	onto 1" thick 83 guran	neter (Shore A) Rubber Matt
Chamber M.	ay to fire, Safe in "Fire" p agazine toaded to capacii	position, Fresh Primed Case in
		ry with Dummy Rounas. verify firearm will still function.
	• •	
12 inch drop (safety	y in "Fire" position) - one	drop per orientation.
Note for Eirearms with the L	SS system installed – The	: ISS will be set in the unlocked
	all six orientations of the	<u> 2 Jar-O_{II} 1est</u>
O <u>rientation</u> ISS U	Unlocked	Comments
Barrel Vertical, Muzzle Up:	Pass V Fail	·
	,	
•	Pass Fail	
		.A
· ·		
•		
Barrel Horizonian, contour of Stock 250mm.	*455 _ v _ run	
		•

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TLW	1075
Project No.	241359
S.A.A.M.I. JAR-OFF, DROP & ROTATION TEST	
SAAMI Specifications for Standard Dron Test	

Drop Test:

48-inch drop - onto 1" thick 85 durameter (Shore A) Rubber Matt Firearm not ready to fire, Safe in "Safe" position, Fresh Primed Case in Chamber, Magazine loaded to capacity with Dummy Rounds. After each drop Fire Primed Case to verify firearm will still function.

48 inch drop (safety in "Safe" position) - one drop per orientation.

Note: for Firearms with the ISS system installed - The Firearms will be set with the

ISS system in the unlocked position for all six orientations of the Drop Test

Orientation	ISS Unlocked	Comments
Barrel Vertical, Muzzle Up:	PassFail	
Barrel Vertical, Muzzle Down:	PassFail	
Barrel Horizontal, Left side of Stock U	Ip: Pass / Fail	
Barrel Horizontal, Right side of Stock	Up: Pass Fail	
Barrel Horizontal, Bottom of Stock Up	o: Pass / Fail	
Barrel Horizontal, Bottom of Stock Do	own: Pass V Fail	
· SAAMI Specifications for	r Standard Rotation Test:	
Drop - Firear in Cha After e "Rotation Test" <u>Nate: for Firearms w</u>	mber, Magazine loaded to c ach drop Fire Primed Case " (safety in "Safe" position) with the ISS system installed	(Shore A) Rubber Matt 'Safe" position, Fresh Primed Case apacity with Dummy Rounds. to verify firearm will still function.
Orientation	ISS Unlocked	Comments
Firearm Vertical, Drop so left side of S	Stock is Up: PassFa	il
Firearm Vertical, Drop so right side of	Stock is Up: Pass Fair	
Notes: (continue on back of sheet if necessa		· · · · · · · · · · · · · · · · · · ·
.•		Tester's Initials

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