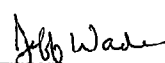


Test Lab Work Request Form

Rev.3 -20 April, 2000

Date Submitted: 1/4/01	Tracking # : TLW 0395
Project # : 241095	Engineer: Franz for Matt Golemboski
Test Objective: Conduct standard SAAMI Jar-Off, Drop and Rotation tests on 10 new Model 710 rifles with iron sights.	
Test Description: <ul style="list-style-type: none"> Follow standard SAAMI procedures established for Jar-Off, Drop and Rotation tests. All guns to be set at process minimums for trigger pull (4 lbs.) and engagement (.020 in.). After setting fire controls check for proper trigger return and verify that sears move freely. 	
Resource Usage: Manpower Requirements - 2 tech. Facility Requirements - Drop Area	Test Results Required: Formal Report: X Data Only: Requested Completion Date: 1/26/01
Required Materials/Parts/Equipment (include quantities):	
Test Parts Availability Date: now	
Start Date: 01/16/01 Completion Date: 01/19/01 Report Date:	Test Assigned To: Jeff Wade Assignment Date: 01/15/01 <div style="text-align: right;">  </div>

ET29976

BEFORE	TRIGGER PULL 4 lbs.							ENGAGEMENT .02				1-17-01
SERIAL #	1	2	3	4	5	6	AVG.	1	2	3	AVG.	
71003108	4.5	4.25	4.5	4.25	4.25	4.25	4.33	.0205	.0201	.0205	.0204	
71002467	4.5	4.25	4.25	4.25	4.25	4.0	4.25	.0196	.0201	.0201	.0199	
71003109*	N/A									BROKEN	SEAR SCREW OUT OF TEST	
71003121	4.0	4.0	4.0	4.25	3.75	4.0	4.0	.0201	.0200	.0210	.0204	
71002455	4.25	4.5	4.5	4.25	4.25	4.25	4.33	.0210	.0199	.0198	.0202	
71002457	4.25	4.0	3.75	4.0	4.0	4.0	4.0	.0211	.0207	.0212	.0210	BOLT HANDLE BROKEN
71002459	4.5	4.25	4.25	4.0	4.25	4.0	4.21	.0204	.0201	.0205	.0203	
71002465	4.25	4.25	4.5	4.5	4.5	4.25	4.38	.0202	.0201	.0209	.0204	
71002460	4.0	4.25	4.25	4.25	4.25	4.25	4.21	.0195	.0197	.0202	.0198	83
7102458	4.5	4.25	4.5	4.25	4.5	4.5	4.42	.0202	.0204	.0199	.0202	
AFTER												1-18-01
71003108	4.5	4.5	4.5	4.5	4.5	4.5	4.5	.0215	.0214	.0212	.0214	
71002467	4.0	4.25	4.25	4.25	4.5	4.5	4.29	.0195	.0196	.0199	.0197	
71003121	4.0	4.0	4.25	4.25	4.25	4.0	4.10	.0222	.0210	.0228	.0222	
71002455	4.5	4.5	4.25	4.5	4.5	4.25	4.42	.0198	.0200	.0201	.0200	
71002459	4.0	4.25	4.0	4.25	4.25	4.25	4.17	.0192	.0190	.0201	.0194	
71002465	4.25	4.25	4.5	4.5	4.5	4.5	4.46	.0197	.0200	.0204	.0200	
71002460	4.0	4.0	4.25	4.25	4.25	4.25	4.17	.0200	.0196	.0201	.0199	
71002458	4.5	4.5	4.25	4.25	4.25	4.25	4.5	.0190	.0191	.0193	.0191	
71002457	4.0	4.0	3.75	4.0	3.75	4.0	3.92	.0212	.0210	.0215	.0214	

ET29977

TLW 0395Project No. 241095

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JW

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

Firecontrol No. _____ Firecontrol Type: Sta. Date: 1-17-01Dry Cycles/Rounds Completed: _____ Stock Type Syn. Engagement at Start 0204Model No. 710 Serial No. 71003108 Engagement at End 0214Trigger Pull at Start of Test (1) 4.50 (2) 4.25 (3) 4.50 (4) 4.25 (5) 4.25 (6) 4.25Average Trigger Pull at Start of Test: 4.33 Std. Dev. of Trigger Pull at Start of Test: _____Trigger Pull at End of Test (1) 4.5 (2) 4.5 (3) 4.5 (4) 4.5 (5) 4.5 (6) 4.5 83Average Trigger Pull at End of Test: 4.5 Std. Dev. of Trigger Pull at End of Test: _____

Additional Notes and Comments

For additional details on the proper procedures to be used for this Test Procedure refer to:

ANSI / SAAMI Z299.5-1990

SAAMI Specifications for Standard Jar-Off Test:

Jar-Off Test: 12 inch drop - onto 1" thick 85 durometer (Shore A) Rubber Matt
 Firearm ready to fire, Safe in "Fire" 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.

12 inch drop (safety in "Fire" position) - one drop per orientation.

Comments

Barrel Horizontal, Bottom of Stock Down :	Pass <input checked="" type="checkbox"/>	Fail _____
Barrel Horizontal, Bottom of Stock Up :	Pass <input checked="" type="checkbox"/>	Fail _____
Barrel Horizontal, Left side of Stock Up :	Pass <input checked="" type="checkbox"/>	Fail _____
Barrel Horizontal, Right side of Stock Up :	Pass <input checked="" type="checkbox"/>	Fail _____
Barrel Vertical, Muzzle Up :	Pass <input checked="" type="checkbox"/>	Fail _____
Barrel Vertical, Muzzle Down :	Pass <input checked="" type="checkbox"/>	Fail _____

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TLW 1395
 Project No. 241095

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S.A.A.M.I. JAR-OFF, DROP & ROTATION TEST (cont'd)

SAAMI Specifications for Standard Drop Test:

1-18-07

Drop Test: 48 inch drop - onto 1" thick 85 durameter (ShoreA) 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.

	Pass	Fail	Comments
Barrel Horizontal, Bottom of Stock Down :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Barrel Horizontal, Bottom of Stock Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Barrel Horizontal, Left side of Stock Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Barrel Horizontal, Right side of Stock Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Barrel Vertical, Muzzle Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Barrel Vertical, Muzzle Down :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	

SAAMI Specifications for Standard Rotation Test:

Rotation Test: Rest Firearm on the Butt end and allow Firearm to Fall
 Drop - onto 1" thick 85 durameter (ShoreA) 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.

1-17-07

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

	Pass	Fail	Comments
Firearm Vertical, Drop so Left side of Stock is Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Firearm Vertical, Drop so Right side of Stock is Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	

Notes: _____

Tester Initials: JW + EP

ET29979

TLW 0395Project No. 241095

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JW

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

Firecontrol No. _____ Firecontrol Type: Std. Date: 1-17-01Dry Cycles/Rounds Completed: _____ Stock Type Syn. Engagement at Start 0199Model No. 710 Serial No. 71002467 Engagement at End 0197Trigger Pull at Start of Test (1) 4.50 (2) 4.25 (3) 4.25 (4) 4.25 (5) 4.25 (6) 4.0Average Trigger Pull at Start of Test: 4.25 Std. Dev. of Trigger Pull at Start of Test: _____Trigger Pull at End of Test (1) 4.0 (2) 4.25 (3) 4.25 (4) 4.25 (5) 4.5 (6) 4.5Average Trigger Pull at End of Test: 4.29 Std. Dev. of Trigger Pull at End of Test: _____

Additional Notes and Comments

For additional details on the proper procedures to be used for this Test Procedure refer to:

ANSI / SAAMI Z299.5-1990

SAAMI Specifications for Standard Jar-Off Test:

Jar-Off Test: 12 inch drop - onto 1" thick 85 durometer (Shore A) Rubber Matt
 Firearm ready to fire, Safe in "Fire" 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.

12 inch drop (safety in "Fire" position) - one drop per orientation.

Comments

Barrel Horizontal, Bottom of Stock Down :	Pass <u>✓</u>	Fail _____
Barrel Horizontal, Bottom of Stock Up :	Pass <u>✓</u>	Fail _____
Barrel Horizontal, Left side of Stock Up :	Pass <u>✓</u>	Fail _____
Barrel Horizontal, Right side of Stock Up :	Pass <u>✓</u>	Fail _____
Barrel Vertical, Muzzle Up :	Pass <u>✓</u>	Fail _____
Barrel Vertical, Muzzle Down :	Pass <u>✓</u>	Fail _____

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TLW 0395

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S.A.A.M.I. JAR-OFF, DROP & ROTATION TEST (cont'd)

1-18-01

SAAMI Specifications for Standard Drop Test:

Drop Test: 48 inch drop - onto 1" thick 85 durameter (ShoreA) 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.

	Pass	Fail	Comments
Barrel Horizontal, Bottom of Stock Down :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Barrel Horizontal, Bottom of Stock Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Barrel Horizontal, Left side of Stock Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Barrel Horizontal, Right side of Stock Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Barrel Vertical, Muzzle Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Barrel Vertical, Muzzle Down :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	

SAAMI Specifications for Standard Rotation Test:

Rotation Test: Rest Firearm on the Butt end and allow Firearm to Fall
 Drop - onto 1" thick 85 durameter (ShoreA) 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.

1-17-01

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

	Pass	Fail	Comments
Firearm Vertical, Drop so Left side of Stock is Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Firearm Vertical, Drop so Right side of Stock is Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	

Notes:

Tester Initials: JW + EP

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JW

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

Firecontrol No. _____ Firecontrol Type: Sta. Date: 1-17-01Dry Cycles/Rounds Completed: _____ Stock Type Syn. Engagement at Start .0204Model No. 710 Serial No. 71003121 Engagement at End .0222Trigger Pull at Start of Test (1) 4.0 (2) 4.0 (3) 4.0 (4) 4.25 (5) 3.75 (6) 4.0Average Trigger Pull at Start of Test: 4.0 Std. Dev. of Trigger Pull at Start of Test: .0222Trigger Pull at End of Test (1) 4.0 (2) 4.0 (3) 4.25 (4) 4.25 (5) 4.25 (6) 4.0 ap 18.0Average Trigger Pull at End of Test: 4.13 Std. Dev. of Trigger Pull at End of Test: _____

Additional Notes and Comments

For additional details on the proper procedures to be used for this Test Procedure refer to:

ANSI / SAAMI Z299.5-1990

SAAMI Specifications for Standard Jar-Off Test:

Jar-Off Test: 12 inch drop - onto 1" thick 85 durameter (Shore A) Rubber Matt
 Firearm ready to fire, Safe in "Fire" 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.

12 inch drop (safety in "Fire" position) - one drop per orientation.

	Pass	Fail	Comments
Barrel Horizontal, Bottom of Stock Down :	Pass <input checked="" type="checkbox"/>	Fail _____	_____
Barrel Horizontal, Bottom of Stock Up :	Pass <input checked="" type="checkbox"/>	Fail _____	_____
Barrel Horizontal, Left side of Stock Up :	Pass <input checked="" type="checkbox"/>	Fail _____	_____
Barrel Horizontal, Right side of Stock Up :	Pass <input checked="" type="checkbox"/>	Fail _____	_____
Barrel Vertical, Muzzle Up :	Pass <input checked="" type="checkbox"/>	Fail _____	_____
Barrel Vertical, Muzzle Down :	Pass <input checked="" type="checkbox"/>	Fail _____	_____

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S.A.A.M.I. JAR-OFF, DROP & ROTATION TEST (cont'd)

SAAMI Specifications for Standard Drop Test:

Drop Test: 48 inch drop - onto 1" thick 85 durometer (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.

	Pass	Fail	Comments
Barrel Horizontal, Bottom of Stock Down :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Barrel Horizontal, Bottom of Stock Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Barrel Horizontal, Left side of Stock Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Barrel Horizontal, Right side of Stock Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Barrel Vertical, Muzzle Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Barrel Vertical, Muzzle Down :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	

SAAMI Specifications for Standard Rotation Test:

Rotation Test: Rest Firearm on the Butt end and allow Firearm to Fall
 Drop - onto 1" thick 85 durometer (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.

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

	Pass	Fail	Comments
Firearm Vertical, Drop so Left side of Stock is Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Firearm Vertical, Drop so Right side of Stock is Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	

Notes: _____

Tester Initials: JW + EP

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TLW 0395

Project No. 241095

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JW

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

Firecontrol No. _____ Firecontrol Type: Sta. Date: 1-17-01Dry Cycles/Rounds Completed: _____ Stock Type Syn. Engagement at Start .0204Model No. 710 Serial No. 71002465 Engagement at End .0200Trigger Pull at Start of Test (1) 4.25 (2) 4.25 (3) 4.5 (4) 4.5 (5) 4.5 (6) 4.25Average Trigger Pull at Start of Test: 4.38 Std. Dev. of Trigger Pull at Start of Test: _____Trigger Pull at End of Test (1) 4.5 (2) 4.25 (3) 4.5 (4) 4.5 (5) 4.5 (6) 4.5Average Trigger Pull at End of Test: 4.46 Std. Dev. of Trigger Pull at End of Test: _____

Additional Notes and Comments

For additional details on the proper procedures to be used for this Test Procedure refer to:

ANSI / SAAMI Z299.5-1990

SAAMI Specifications for Standard Jar-Off Test:

Jar-Off Test:

12 inch drop - onto 1" thick 85 durometer (Shore A) Rubber Matt
 Firearm ready to fire, Safe in "Fire" 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.

12 inch drop (safety in "Fire" position) - one drop per orientation.

	Pass	Fail	Comments
Barrel Horizontal, Bottom of Stock Down :	Pass <input checked="" type="checkbox"/>	Fail _____	
Barrel Horizontal, Bottom of Stock Up :	Pass <input checked="" type="checkbox"/>	Fail _____	
Barrel Horizontal, Left side of Stock Up :	Pass <input checked="" type="checkbox"/>	Fail _____	
Barrel Horizontal, Right side of Stock Up :	Pass <input checked="" type="checkbox"/>	Fail _____	
Barrel Vertical, Muzzle Up :	Pass <input checked="" type="checkbox"/>	Fail _____	
Barrel Vertical, Muzzle Down :	Pass <input checked="" type="checkbox"/>	Fail _____	

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S.A.A.M.I. JAR-OFF, DROP & ROTATION TEST (cont'd)

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.

	Pass	Fail	Comments
Barrel Horizontal, Bottom of Stock Down :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Barrel Horizontal, Bottom of Stock Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Barrel Horizontal, Left side of Stock Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Barrel Horizontal, Right side of Stock Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Barrel Vertical, Muzzle Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Barrel Vertical, Muzzle Down :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	

SAAMI Specifications for Standard Rotation Test:

Rotation Test: Rest Firearm on the Butt end and allow Firearm to Fall
 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.

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

	Pass	Fail	Comments
Firearm Vertical, Drop so Left side of Stock is Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Firearm Vertical, Drop so Right side of Stock is Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	

Notes: _____

Tester Initials: JW & EP

ET29985

TLW 0395Project No. 241095

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JW

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

Firecontrol No. _____ Firecontrol Type: Std. Date: 1-17-01Dry Cycles/Rounds Completed: _____ Stock Type Syn. Engagement at Start 0202Model No. 710 Serial No. 71002455 Engagement at End 0200Trigger Pull at Start of Test (1) 4.25 (2) 4.50 (3) 4.50 (4) 4.25 (5) 4.25 (6) 4.25Average Trigger Pull at Start of Test: 4.33 Std. Dev. of Trigger Pull at Start of Test: _____Trigger Pull at End of Test (1) 4.5 (2) 4.5 (3) 4.25 (4) 4.5 (5) 4.5 (6) 4.25 83Average Trigger Pull at End of Test: 4.42 Std. Dev. of Trigger Pull at End of Test: _____

Additional Notes and Comments

For additional details on the proper procedures to be used for this Test Procedure refer to:

ANSI / SAAMI Z299.5-1990

SAAMI Specifications for Standard Jar-Off Test:

Jar-Off Test: 12 inch drop - onto 1" thick 85 durometer (Shore A) Rubber Matt
 Firearm ready to fire, Safe in "Fire" 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.

12 inch drop (safety in "Fire" position) - one drop per orientation.

	Pass	Fail	Comments
Barrel Horizontal, Bottom of Stock Down :	Pass <input checked="" type="checkbox"/>	Fail _____	
Barrel Horizontal, Bottom of Stock Up :	Pass <input checked="" type="checkbox"/>	Fail _____	
Barrel Horizontal, Left side of Stock Up :	Pass <input checked="" type="checkbox"/>	Fail _____	
Barrel Horizontal, Right side of Stock Up :	Pass <input checked="" type="checkbox"/>	Fail _____	
Barrel Vertical, Muzzle Up :	Pass <input checked="" type="checkbox"/>	Fail _____	
Barrel Vertical, Muzzle Down :	Pass <input checked="" type="checkbox"/>	Fail _____	

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Project No. 241095

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S.A.A.M.I. JAR-OFF, DROP & ROTATION TEST (cont'd)

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.

	Pass	Fail	Comments
Barrel Horizontal, Bottom of Stock Down :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Barrel Horizontal, Bottom of Stock Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Barrel Horizontal, Left side of Stock Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Barrel Horizontal, Right side of Stock Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Barrel Vertical, Muzzle Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Barrel Vertical, Muzzle Down :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	

SAAMI Specifications for Standard Rotation Test:

Rotation Test: Rest Firearm on the Butt end and allow Firearm to Fall
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.

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

	Pass	Fail	Comments
Firearm Vertical, Drop so Left side of Stock is Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Firearm Vertical, Drop so Right side of Stock is Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	

Notes:

Tester Initials: JW + EP

ET29987

TLW 0395Project No. 241095

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JW

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

Firecontrol No. _____ Firecontrol Type: Sta. Date: 1-17-01
 Dry Cycles/Rounds Completed: _____ Stock Type Syn. Engagement at Start .0203
 Model No. 710 Serial No. 71002459 Engagement at End .0194
 Trigger Pull at Start of Test (1) 4.5 (2) 4.25 (3) 4.25 (4) 4.0 (5) 4.25 (6) 4.0
 Average Trigger Pull at Start of Test: 4.21 Std. Dev. of Trigger Pull at Start of Test: _____
 Trigger Pull at End of Test (1) 4.0 (2) 4.25 (3) 4.0 (4) 4.25 (5) 4.25 (6) 4.25 83
 Average Trigger Pull at End of Test: 4.17 Std. Dev. of Trigger Pull at End of Test: _____

Additional Notes and Comments

For additional details on the proper procedures to be used for this Test Procedure refer to:

ANSI / SAAMI Z299.5-1990

SAAMI Specifications for Standard Jar-Off Test:

Jar-Off Test: 12 inch drop - onto 1" thick 85 durometer (Shore A) Rubber Matt
 Firearm ready to fire, Safe in "Fire" 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.

12 inch drop (safety in "Fire" position) - one drop per orientation.

	Pass	Fail	Comments
Barrel Horizontal, Bottom of Stock Down :	Pass <input checked="" type="checkbox"/>	Fail _____	
Barrel Horizontal, Bottom of Stock Up :	Pass <input checked="" type="checkbox"/>	Fail _____	
Barrel Horizontal, Left side of Stock Up :	Pass <input checked="" type="checkbox"/>	Fail _____	
Barrel Horizontal, Right side of Stock Up :	Pass <input checked="" type="checkbox"/>	Fail _____	
Barrel Vertical, Muzzle Up :	Pass <input checked="" type="checkbox"/>	Fail _____	
Barrel Vertical, Muzzle Down :	Pass <input checked="" type="checkbox"/>	Fail _____	

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S.A.A.M.I. JAR-OFF, DROP & ROTATION TEST (cont'd)

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.

	Pass	Fail	Comments
Barrel Horizontal, Bottom of Stock Down :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Barrel Horizontal, Bottom of Stock Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Barrel Horizontal, Left side of Stock Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Barrel Horizontal, Right side of Stock Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Barrel Vertical, Muzzle Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Barrel Vertical, Muzzle Down :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	

SAAMI Specifications for Standard Rotation Test:

Rotation Test: Rest Firearm on the Butt end and allow Firearm to Fall
 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.

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

	Pass	Fail	Comments
Firearm Vertical, Drop so Left side of Stock is Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Firearm Vertical, Drop so Right side of Stock is Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	

Notes: _____

Tester Initials: JW + EP

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JW

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

Firecontrol No. _____ Firecontrol Type: Std. Date: 1-17-01Dry Cycles/Rounds Completed: _____ Stock Type 54A Engagement at Start .0198Model No. 710 Serial No. 71002460 Engagement at End .0199Trigger Pull at Start of Test (1) 4.0 (2) 4.25 (3) 4.25 (4) 4.25 (5) 4.25 (6) 4.25Average Trigger Pull at Start of Test: 4.21 Std. Dev. of Trigger Pull at Start of Test: _____Trigger Pull at End of Test (1) 4.0 (2) 4.0 (3) 4.25 (4) 4.25 (5) 4.25 (6) 4.25Average Trigger Pull at End of Test: 4.17 Std. Dev. of Trigger Pull at End of Test: _____

Additional Notes and Comments

For additional details on the proper procedures to be used for this Test Procedure refer to:

ANSI / SAAMI Z299.5-1990

SAAMI Specifications for Standard Jar-Off Test:

Jar-Off Test:

12 inch drop - onto 1" thick 85 durometer (Shore A) Rubber Matt
 Firearm ready to fire, Safe in "Fire" 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.

12 inch drop (safety in "Fire" position) - one drop per orientation.

	Pass	Fail	Comments
Barrel Horizontal, Bottom of Stock Down :	Pass	Fail	
Barrel Horizontal, Bottom of Stock Up :	Pass	Fail	
Barrel Horizontal, Left side of Stock Up :	Pass	Fail	
Barrel Horizontal, Right side of Stock Up :	Pass	Fail	
Barrel Vertical, Muzzle Up :	Pass	Fail	
Barrel Vertical, Muzzle Down :	Pass	Fail	

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TLW 0395

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S.A.A.M.I. JAR-OFF, DROP & ROTATION TEST (cont'd)

SAAMI Specifications for Standard Drop Test:

Drop Test: 48 inch drop - onto 1" thick 85 durameter (ShoreA) 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.

	Pass	Fail	Comments
Barrel Horizontal, Bottom of Stock Down :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Barrel Horizontal, Bottom of Stock Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	MAGAZINE RELEASED
Barrel Horizontal, Left side of Stock Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Barrel Horizontal, Right side of Stock Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Barrel Vertical, Muzzle Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Barrel Vertical, Muzzle Down :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	

SAAMI Specifications for Standard Rotation Test:

Rotation Test: Rest Firearm on the Butt end and allow Firearm to Fall
 Drop onto 1" thick 85 durameter (ShoreA) 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.

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

	Pass	Fail	Comments
Firearm Vertical, Drop so Left side of Stock is Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Firearm Vertical, Drop so Right side of Stock is Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	

Notes:

Tester Initials: JW + EP

ET29991

TLW 0395

Project No. 241095

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JW

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

Firecontrol No. _____ Firecontrol Type: Sta. Date: 1-17-01Dry Cycles/Rounds Completed: _____ Stock Type Sta. Engagement at Start .0210Model No. 710 Serial No. 7100-2457 Engagement at End .0214Trigger Pull at Start of Test (1) 4.25 (2) 4.0 (3) 3.75 (4) 4.0 (5) 4.0 (6) 4.0Average Trigger Pull at Start of Test: 4.0 Std. Dev. of Trigger Pull at Start of Test: _____Trigger Pull at End of Test (1) 4.0 (2) 4.0 (3) 3.75 (4) 4.0 (5) 3.75 (6) 4.0 83Average Trigger Pull at End of Test: 3.92 Std. Dev. of Trigger Pull at End of Test: _____

Additional Notes and Comments

For additional details on the proper procedures to be used for this Test Procedure refer to:

ANSI / SAAMI Z299.5-1990

SAAMI Specifications for Standard Jar-Off Test:

Jar-Off Test: 12 inch drop - onto 1" thick 85 durometer (Shore A) Rubber Matt
 Firearm ready to fire, Safe in "Fire" 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.

12 inch drop (safety in "Fire" position) - one drop per orientation.

	Pass	Fail	Comments
Barrel Horizontal, Bottom of Stock Down :	Pass <input checked="" type="checkbox"/>	Fail _____	
Barrel Horizontal, Bottom of Stock Up :	Pass <input checked="" type="checkbox"/>	Fail _____	
Barrel Horizontal, Left side of Stock Up :	Pass <input checked="" type="checkbox"/>	Fail _____	FRONT SIGHT FELL OFF
Barrel Horizontal, Right side of Stock Up :	Pass <input checked="" type="checkbox"/>	Fail _____	
Barrel Vertical, Muzzle Up :	Pass <input checked="" type="checkbox"/>	Fail _____	
Barrel Vertical, Muzzle Down :	Pass <input checked="" type="checkbox"/>	Fail _____	

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S.A.A.M.I. JAR-OFF, DROP & ROTATION TEST (cont'd)

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.

	Pass	Fail	Comments
Barrel Horizontal, Bottom of Stock Down :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Barrel Horizontal, Bottom of Stock Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	FRONT SIGHT FELL OFF
Barrel Horizontal, Left side of Stock Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	BROKE BOLT HANDLE - REPLACED BOLT
Barrel Horizontal, Right side of Stock Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	BODY FROM GUN 71003109
Barrel Vertical, Muzzle Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	CONTINUED
Barrel Vertical, Muzzle Down :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	

SAAMI Specifications for Standard Rotation Test:

Rotation Test: Rest Firearm on the Butt end and allow Firearm to Fall
 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.

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

	Pass	Fail	Comments
Firearm Vertical, Drop so Left side of Stock is Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Firearm Vertical, Drop so Right side of Stock is Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	MAGAZINE RELEASED

Notes: BOLT HANDLE BROKE ON 48" SAAMI Drop Test
 LEFT SIDE OF STOCK UP - PULLED FROM TEST

Tester Initials: JW + EP

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

Firecontrol No. _____ Firecontrol Type: Sta. Date: 1-17-01
 Dry Cycles/Rounds Completed: _____ Stock Type Syn Engagement at Start .0202
 Model No. 710 Serial No. 71002458 Engagement at End ~~.0202~~ .0191
 Trigger Pull at Start of Test (1) 4.5 (2) 4.25 (3) 4.5 (4) 4.25 (5) 4.5 (6) 4.5
 Average Trigger Pull at Start of Test: 4.42 Std. Dev. of Trigger Pull at Start of Test: _____
 Trigger Pull at End of Test (1) 4.5 (2) 4.5 (3) 4.25 (4) 4.25 (5) 4.25 (6) 4.25 18.01
 Average Trigger Pull at End of Test: 4.5 Std. Dev. of Trigger Pull at End of Test: _____

Additional Notes and Comments

For additional details on the proper procedures to be used for this Test Procedure refer to:

ANSI / SAAMI Z299.5-1990

SAAMI Specifications for Standard Jar-Off Test:

Jar-Off Test: 12 inch drop - onto 1" thick 85 durometer (Shore A) Rubber Matt
 Firearm ready to fire, Safe in "Fire" 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.

12 inch drop (safety in "Fire" position) - one drop per orientation.

	Pass	Fail	Comments
Barrel Horizontal, Bottom of Stock Down:	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Barrel Horizontal, Bottom of Stock Up:	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Barrel Horizontal, Left side of Stock Up:	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Barrel Horizontal, Right side of Stock Up:	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Barrel Vertical, Muzzle Up:	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	REAR SIGHT FALL OFF
Barrel Vertical, Muzzle Down:	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	

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S.A.A.M.I. JAR-OFF, DROP & ROTATION TEST (cont'd)

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.

	Pass	Fail	Comments
Barrel Horizontal, Bottom of Stock Down :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Barrel Horizontal, Bottom of Stock Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Barrel Horizontal, Left side of Stock Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	GRIP CAP CAME OFF
Barrel Horizontal, Right side of Stock Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Barrel Vertical, Muzzle Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Barrel Vertical, Muzzle Down :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	

SAAMI Specifications for Standard Rotation Test:

Rotation Test: Rest Firearm on the Butt end and allow Firearm to Fall
 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.

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

	Pass	Fail	Comments
Firearm Vertical, Drop so Left side of Stock is Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	
Firearm Vertical, Drop so Right side of Stock is Up :	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	

Notes: _____

Tester Initials: JW + EP

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

Firecontrol No. _____ Firecontrol Type: Sta. Date: _____Dry Cycles/Rounds Completed: _____ Stock Type S&W Engagement at Start _____Model No. 710 Serial No. 71003109 Engagement at End _____

Trigger Pull at Start of Test (1) _____ (2) _____ (3) _____ (4) _____ (5) _____ (6) _____

Average Trigger Pull at Start of Test: _____ Std. Dev. of Trigger Pull at Start of Test: _____

Trigger Pull at End of Test (1) _____ (2) _____ (3) _____ (4) _____ (5) _____ (6) _____

Average Trigger Pull at End of Test: _____ Std. Dev. of Trigger Pull at End of Test: _____

Additional Notes and Comments

SEAR ENGAGEMENT SCREW BROKEN, PULLED FROM TEST.SCREW WAS LOCKTITED, WHEN TRIED TO ADJUST SCREWHEAD BROKE

For additional details on the proper procedures to be used for this Test Procedure refer to:

ANSI / SAAMI Z299.5-1990

SAAMI Specifications for Standard Jar-Off Test:

Jar-Off Test: 12 inch drop - onto 1" thick 85 durometer (Shore A) Rubber Matt
 Firearm ready to fire, Safe in "Fire" 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.

12 inch drop (safety in "Fire" position) - one drop per orientation.

Comments

Barrel Horizontal, Bottom of Stock Down: Pass _____ Fail _____

Barrel Horizontal, Bottom of Stock Up: Pass _____ Fail _____

Barrel Horizontal, Left side of Stock Up: Pass _____ Fail _____

Barrel Horizontal, Right side of Stock Up: Pass _____ Fail _____

Barrel Vertical, Muzzle Up: Pass _____ Fail _____

Barrel Vertical, Muzzle Down: Pass _____ Fail _____

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S.A.A.M.I. JAR-OFF, DROP & ROTATION TEST (cont'd)

SAAMI Specifications for Standard Drop Test:

Drop Test: 48 inch drop - onto 1" thick 85 durameter (ShoreA) 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.

	Pass	Fail	Comments
Barrel Horizontal, Bottom of Stock Down :	Pass	Fail	
Barrel Horizontal, Bottom of Stock Up :	Pass	Fail	
Barrel Horizontal, Left side of Stock Up :	Pass	Fail	
Barrel Horizontal, Right side of Stock Up :	Pass	Fail	
Barrel Vertical, Muzzle Up :	Pass	Fail	
Barrel Vertical, Muzzle Down :	Pass	Fail	

SAAMI Specifications for Standard Rotation Test:

Rotation Test: Rest Firearm on the Butt end and allow Firearm to Fall
 Drop onto 1" thick 85 durameter (ShoreA) 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.

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

	Pass	Fail	Comments
Firearm Vertical, Drop so Left side of Stock is Up :	Pass	Fail	
Firearm Vertical, Drop so Right side of Stock is Up :	Pass	Fail	

Notes: _____

Tester Initials: _____

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