

TLW 1689YProject No. 241214

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**S.A.A.M.I. JAR-OFF, DROP & ROTATION TEST****JAR-OFF TEST**Firecontrol No. A-38 Firecontrol Type: Standard Date: 2/12/05Dry Cycles/Rounds Completed: \_\_\_\_\_ Stock Type Syn 2/17/05Engagement at Start (1) .0252 (2) .0257 (3) .0257 Average .02550Engagement at End (1) .0223 (2) .0220 (3) .0232 Average .02250Model No. 710 Serial No. 11203007Trigger Pull at Start of Test (1) 4.584 (2) 4.532 (3) 4.466 (4) 4.597 (5) 4.423Average Trigger Pull at Start of Test: 4.520 Std. Dev. of Trigger Pull at Start of Test: \_\_\_\_\_Trigger Pull at End of Test (1) 4.705 (2) 4.777 (3) 5.147 (4) 5.688 (5) 5.426Average Trigger Pull at End of Test: 5.149 Std. Dev. of Trigger Pull at End of Test: \_\_\_\_\_Tester Initials: SW/JS

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.

Note: for Firearms with the ISS system installed - The ISS will be set in the unlocked  
position for all six orientations of the Jar-Off Test

<u>Orientation</u>	<u>ISS Unlocked</u>		<u>Comments</u>
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"/>	_____
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 Horizontal, Bottom of Stock Up:	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	_____
Barrel Horizontal, Bottom of Stock Down:	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	_____

Notes: (continue on back of sheet if necessary)

Tester's Initials SW/JS
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ET21934

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**S.A.A.M.I. JAR-OFF, DROP & ROTATION TEST****ROTATION TEST**Firecontrol No. A-38 Firecontrol Type: \_\_\_\_\_ Date: 2/17/05

Dry Cycles/Rounds Completed: \_\_\_\_\_ Stock Type \_\_\_\_\_

Engagement at Start (1) .0250 (2) .0250 (3) .0251 Average .02503Engagement at End (1) .0265 (2) .0269 (3) .0267 Average .02670

Model No. \_\_\_\_\_ Serial No. \_\_\_\_\_

Trigger Pull at Start of Test (1) 4.635 (2) 4.455 (3) 4.574 (4) 4.522 (5) 4.520Average Trigger Pull at Start of Test: 4.541 Std. Dev. of Trigger Pull at Start of Test: \_\_\_\_\_Trigger Pull at End of Test (1) 4.851 (2) 5.245 (3) 4.048 (4) 5.005 (5) 5.170Average Trigger Pull at End of Test: 4.864 Std. Dev. of Trigger Pull at End of Test: \_\_\_\_\_Tester Initials: SW/JS 83

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 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 Test" (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 both orientations of the Rotation Test.**

Orientation	ISS Unlocked	Comments
Firearm Vertical, Drop so left side of Stock is Up:	Pass <input checked="" type="checkbox"/> Fail _____	_____
Firearm Vertical, Drop so right side of Stock is Up:	Pass <input checked="" type="checkbox"/> Fail _____	_____

Notes: (continue on back of sheet if necessary)

Tester's Initials SW/JS

ET21935

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

Firecontrol No. A-38 Firecontrol Type: \_\_\_\_\_ Date: \_\_\_\_\_  
Dry Cycles/Rounds Completed: \_\_\_\_\_ Stock Type: \_\_\_\_\_ Engagement at Start 2/18/05  
Engagement at Start (1) 0.0256 (2) 0.0254 (3) 0.0258 Average 0.02560  
Engagement at End (1) 0.0271 (2) 0.0267 (3) 0.0266 Average 0.02680  
Model No. \_\_\_\_\_ Serial No. \_\_\_\_\_ Engagement at End \_\_\_\_\_  
Trigger Pull at Start of Test (1) 4.534 (2) 4.455 (3) 4.467 (4) 4.793 (5) 4.482  
Average Trigger Pull at Start of Test: 4.546 Std. Dev. of Trigger Pull at Start of Test: \_\_\_\_\_  
Trigger Pull at End of Test (1) 5.142 (2) 4.992 (3) 5.243 (4) 5.166 (5) 5.418  
Average Trigger Pull at End of Test: 5.192 Std. Dev. of Trigger Pull at End of Test: \_\_\_\_\_  
Tester Initials: SW/J.S.

Additional Notes and Comments

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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 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.

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 <input checked="" type="checkbox"/> Fail _____	
Barrel Vertical, Muzzle Down:	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 Horizontal, Bottom of Stock Up:	Pass <input checked="" type="checkbox"/> Fail _____	<u>Bent Scope / Broken Tang</u>
Barrel Horizontal, Bottom of Stock Down:	Pass _____ Fail _____	

Notes: (continue on back of sheet if necessary)

Broken Tang Bottom up

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**S.A.A.M.I. JAR-OFF, DROP & ROTATION TEST****DROP TEST**Firecontrol No. A-38 Firecontrol Type: \_\_\_\_\_ Date: 2/21/05

Dry Cycles/Rounds Completed: \_\_\_\_\_ Stock Type \_\_\_\_\_ Engagement at Start \_\_\_\_\_

Engagement at Start (1) .0253 (2) .0258 (3) .0259 Average .0256Engagement at End (1) .0257 (2) .0264 (3) .0260 Average .02603

Model No. \_\_\_\_\_ Serial No. \_\_\_\_\_ Engagement at End \_\_\_\_\_

Trigger Pull at Start of Test (1) 4.505 (2) 4.575 (3) 4.447 (4) 4.545 (5) 4.421Average Trigger Pull at Start of Test: 4.999 Std. Dev. of Trigger Pull at Start of Test: \_\_\_\_\_Trigger Pull at End of Test (1) 4.664 (2) 4.499 (3) 4.588 (4) 4.524 (5) 4.353Average Trigger Pull at End of Test: 4.526 Std. Dev. of Trigger Pull at End of Test: \_\_\_\_\_Tester Initials: EW/JJ

Additional Notes and Comments

Applied Insert*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 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.

Note: for Firearms with the ISS system installed - The Firearms will be set with theISS 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:	Pass _____ Fail _____	
Barrel Horizontal, Left side of Stock Up:	Pass _____ Fail _____	
Barrel Horizontal, Right side of Stock Up:	Pass _____ Fail _____	
Barrel Horizontal, Bottom of Stock Up:	Pass _____ Fail _____	
Barrel Horizontal, Bottom of Stock Down:	Pass <input checked="" type="checkbox"/> Fail _____	

Notes: (continue on back of sheet if necessary)

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