

TLW 16894Project No. 241314

300

**S.A.A.M.I. JAR-OFF, DROP & ROTATION TEST****JAR-OFF TEST**Firecontrol No. A-37 Firecontrol Type: Standard Date: 2/16/05Dry Cycles/Rounds Completed: \_\_\_\_\_ Stock Type S&W 2/17/05Engagement at Start (1) .0256 (2) .0252 (3) .0254 Average .02540Engagement at End (1) .0260 (2) .0263 (3) .0264 Average .02623Model No. 710 Serial No. 71203192Trigger Pull at Start of Test (1) 4.549 (2) 4.493 (3) 4.510 (4) 4.550 (5) 4.485Average Trigger Pull at Start of Test: 4.519 Std. Dev. of Trigger Pull at Start of Test: \_\_\_\_\_Trigger Pull at End of Test (1) 4.278 (2) 4.224 (3) 4.290 (4) 4.264 (5) 4.299Average Trigger Pull at End of Test: 4.271 Std. Dev. of Trigger Pull at End of Test: \_\_\_\_\_Tester Initials: SW/JS

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 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 _____	_____
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 _____	_____
Barrel Horizontal, Bottom of Stock Down:	Pass <input checked="" type="checkbox"/> Fail _____	_____

Notes: (continue on back of sheet if necessary)

Tester's Initials SW/JS

ET21942

TLW 116892Project No. 241314

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

Firecontrol No. A-37 Firecontrol Type: \_\_\_\_\_ Date: 2/17/05  
 Dry Cycles/Rounds Completed: \_\_\_\_\_ Stock Type \_\_\_\_\_  
 Engagement at Start (1) .0257 (2) .0251 (3) .0256 Average .0254  
 Engagement at End (1) .0261 (2) .0267 (3) .0271 Average .0266  
 Model No. \_\_\_\_\_ Serial No. \_\_\_\_\_  
 Trigger Pull at Start of Test (1) 4.645 (2) 4.534 (3) 4.649 (4) 4.509 (5) 4.557  
 Average Trigger Pull at Start of Test: 4.579 Std. Dev. of Trigger Pull at Start of Test: \_\_\_\_\_  
 Trigger Pull at End of Test (1) 4.546 (2) 4.603 (3) 4.941 (4) 4.943 (5) 4.540  
 Average Trigger Pull at End of Test: 4.715 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 <input type="checkbox"/>	
Firearm Vertical, Drop so right side of Stock is Up:	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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TLW 1189AAProject No. 241314

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

Firecontrol No. A-37 Firecontrol Type: \_\_\_\_\_ Date: 2/18/05  
 Dry Cycles/Rounds Completed: \_\_\_\_\_ Stock Type \_\_\_\_\_ Engagement at Start \_\_\_\_\_  
 Engagement at Start (1) .0255 (2) .0251 (3) .0250 Average .02520  
 Engagement at End (1) .0267 (2) .0278 (3) .0277 Average .02740  
 Model No. \_\_\_\_\_ Serial No. \_\_\_\_\_ Engagement at End \_\_\_\_\_  
 Trigger Pull at Start of Test (1) 4.401 (2) 4.761 (3) 4.563 (4) 4.434 (5) 4.691  
 Average Trigger Pull at Start of Test: 4.570 Std. Dev. of Trigger Pull at Start of Test: \_\_\_\_\_  
 Trigger Pull at End of Test (1) 4.499 (2) 4.487 (3) 4.615 (4) 4.534 (5) 4.587  
 Average Trigger Pull at End of Test: 4.548 Std. Dev. of Trigger Pull at End of Test: \_\_\_\_\_  
 Tester Initials: SW/JSS  
 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 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 Tang

ET21944

TLW 1689AAProject No. 241014

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

Firecontrol No. A-37 Firecontrol Type: \_\_\_\_\_ Date: 2/21/05  
 Dry Cycles/Rounds Completed: \_\_\_\_\_ Stock Type \_\_\_\_\_ Engagement at Start \_\_\_\_\_  
 Engagement at Start (1) .0251 (2) .0254 (3) .0249 Average .02513  
 Engagement at End (1) .0231 (2) .0234 (3) .0239 Average .02380  
 Model No. \_\_\_\_\_ Serial No. \_\_\_\_\_ Engagement at End \_\_\_\_\_  
 Trigger Pull at Start of Test (1) 4.442 (2) 4.647 (3) 4.452 (4) 4.434 (5) 4.631  
 Average Trigger Pull at Start of Test: 4.521 Std. Dev. of Trigger Pull at Start of Test: \_\_\_\_\_  
 Trigger Pull at End of Test (1) 4.944 (2) 5.145 (3) 4.950 (4) 5.095 (5) 5.128  
 Average Trigger Pull at End of Test: 5.052 Std. Dev. of Trigger Pull at End of Test: \_\_\_\_\_  
 Tester Initials: SW/JS

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 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 _____	<u>Bolt came open</u>

Notes: (continue on back of sheet if necessary)

Insert OK

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