

TLW 16894

Project No. 241314

300

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

Firecontrol No. A-40 Firecontrol Type: Standard Date: 2/16/03  
 Dry Cycles/Rounds Completed: \_\_\_\_\_ Stock Type Syn 2/17/03  
 Engagement at Start (1) .0256 (2) .0251 (3) .0258 Average .02550  
 Engagement at End (1) .0253 (2) .0252 (3) .0256 Average .02536  
 Model No. 710 Serial No. 71303196  
 Trigger Pull at Start of Test (1) 4.411 (2) 4.596 (3) 4.593 (4) 4.502 (5) 4.479  
 Average Trigger Pull at Start of Test: 4.516 Std. Dev. of Trigger Pull at Start of Test: \_\_\_\_\_  
 Trigger Pull at End of Test (1) 4.603 (2) 4.500 (3) 4.982 (4) 4.850 (5) 4.815  
 Average Trigger Pull at End of Test: 4.750 Std. Dev. of Trigger Pull at End of Test: \_\_\_\_\_  
 Tester Initials: SW/JS

Additional Notes and Comments

83

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

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 _____	_____
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

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ET21918

TLW 1689 ZProject No. 241314

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**S.A.A.M.I. JAR-OFF, DROP & ROTATION TEST****ROTATION TEST**Firecontrol No. A-40 Firecontrol Type: \_\_\_\_\_ Date: 2/17/05

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

Engagement at Start (1) .0253 (2) .0252 (3) .0256 Average .02536Engagement at End (1) .0255 (2) .0249 (3) .0251 Average .02516

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

Trigger Pull at Start of Test (1) 4.580 (2) 4.614 (3) 4.416 (4) 4.539 (5) 4.594Average Trigger Pull at Start of Test: 4.547 Std. Dev. of Trigger Pull at Start of Test: \_\_\_\_\_Trigger Pull at End of Test (1) 4.436 (2) 4.184 (3) 4.162 (4) 4.324 (5) 4.118Average Trigger Pull at End of Test: 4.027 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 Z399.5-1990

**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

ET21919

TLW 1689 AAProject No. 241314

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

Firecontrol No. A-40 Firecontrol Type: \_\_\_\_\_ Date: 2/19/05  
 Dry Cycles/Rounds Completed: \_\_\_\_\_ Stock Type \_\_\_\_\_ Engagement at Start \_\_\_\_\_  
 Engagement at Start (1) .0255 (2) .0249 (3) .0251 Average .02516  
 Engagement at End (1) .0279 (2) .0277 (3) .0279 Average .02783  
 Model No. \_\_\_\_\_ Serial No. \_\_\_\_\_ Engagement at End \_\_\_\_\_  
 Trigger Pull at Start of Test (1) 4.580 (2) 4.655 (3) 4.449 (4) 4.604 (5) 4.418  
 Average Trigger Pull at Start of Test: 4.541 Std. Dev. of Trigger Pull at Start of Test: \_\_\_\_\_  
 Trigger Pull at End of Test (1) 4.533 (2) 4.189 (3) 4.037 (4) 4.125 (5) 4.783  
 Average Trigger Pull at End of Test: 4.333 Std. Dev. of Trigger Pull at End of Test: \_\_\_\_\_  
 Tester Initials: SW/JS

Additional Notes and Comments

83.

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 <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

TLW 1689AA

Project No. 241314

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

Firecontrol No. A-40 Firecontrol Type: \_\_\_\_\_ Date: 2/21/05  
 Dry Cycles/Rounds Completed: \_\_\_\_\_ Stock Type \_\_\_\_\_ Engagement at Start \_\_\_\_\_  
 Engagement at Start (1) .0258 (2) .0249 (3) .0250 Average .02503  
 Engagement at End (1) .0236 (2) .0235 (3) .0237 Average .02360  
 Model No. \_\_\_\_\_ Serial No. \_\_\_\_\_ Engagement at End \_\_\_\_\_  
 Trigger Pull at Start of Test (1) 4.501 (2) 4.548 (3) 4.554 (4) 4.663 (5) 4.572  
 Average Trigger Pull at Start of Test: 4.568 Std. Dev. of Trigger Pull at Start of Test: \_\_\_\_\_  
 Trigger Pull at End of Test (1) 4.660 (2) 5.413 (3) 4.501 (4) 5.652 (5) 5.400  
 Average Trigger Pull at End of Test: 5.125 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 _____	

Notes: (continue on back of sheet if necessary)

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