

Test Lab Work Request Form

Date Submitted: 19 May, 1999	Tracking #: TLW 9142I
Project #: 241095	Engineer: SNEDEKER, J.R.
Test Objective: COMPLETE STANDARD S.A.A.M.I. DROP, JAR-OFF AND ROTATION TESTING ON EACH OF THE M/710 EET SAMPLE RIFLES SUBMITTED FOR EVALUATION ON 18 MAY '99.	
Test Description: <ol style="list-style-type: none"> 1. Perform standard procedure, S.A.A.M.I. Drop, Jar-Off And Rotation Testing on all submitted samples of M/710 EET rifles. Examine each rifle after each drop using standard S.A.A.M.I. procedures. Load chamber and close bolt over a fresh primed case for each drop, jar-off or rotation orientation. "Fire" the primed case after each drop to make sure the round did not fire when dropped. 2. Use the standard forms for S.A.A.M.I. Drop, Jar-Off And Rotation Testing procedure for recording the results. In addition to the test results, and as a minimum, each data sheet should list the tester's initials, the date, the beginning and ending round level covered by that data sheet. Also, the "TLW..." number, the serial number of the firearm and the sample number and the ammunition type used when the malfunction occurred should be recorded on each data sheet. 3. Due to the construction of the EET samples, the drop procedure may require modification. Before proceeding with this test, discussion should occur between the engineer, technician and testing manager to determine the proper methods to be used. <i>These guns were drop with the aluminum test stock. The avg. gun weight was approx. 12 lbs.</i> 	
Resource Usage: Manpower Requirements - 1 technician Facility Requirements -	Test Results Required: Formal Report: Data Only: X REQUESTED Completion Date: 28 May '99
Required Materials/Parts/Equipment (include quantities): Approximately 120 rounds of standard .30-06 ammunition, with bullets and powder removed to make primed cases. 85 durameter rubber mat.	
Test Parts Availability Date: 18 May '99	
Start Date: 6/16/99 Completion Date: 6/16/99 Report Date:	Test Assigned To: Steve Wade 6/16/99

☐ INDEXED
 ☐ ASSIGNED
 ☐ SCHEDULED

ET09877

11.845
12.090
11.915
12.045
11.985

CONFIDENTIAL 83

ET09878

TLW

Project No. 241095

Page 1 of 2

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

Firecontrol No. _____ Firecontrol Type: _____ Date: 6/16/99

Dry Cycles/Rounds Completed: _____ Stock Type 6yn Engagement at Start _____

Model No. M/710 Serial No. X21052 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

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	_____

ET09879

9142I (JRS)
 TLW 91241
 Project No. 241095

Page 1 of 2

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

Firecontrol No. _____ Firecontrol Type: _____ Date: 6/16/99

Dry Cycles/Rounds Completed: _____ Stock Type Syn Engagement at Start _____

Model No. M/710 Serial No. XC-1058 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

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 _____	_____

11.985 lbs

ET09880

TLW 9142J 9134IProject No. 241095

Page 1 of 2

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

Firecontrol No. _____ Firecontrol Type: _____ Date: 6/16/99Dry Cycles/Rounds Completed: _____ Stock Type Syn Engagement at Start _____Model No. M/710 Serial No. XC-1059 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

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 <input type="checkbox"/>	
Barrel Horizontal, Bottom of Stock Up:	Pass <input checked="" type="checkbox"/> Fail <input type="checkbox"/>	Trigger locked will not function
Barrel Horizontal, Left side of Stock Up:	Pass <input checked="" type="checkbox"/> Fail <input type="checkbox"/>	Cycle bolt (OK)
Barrel Horizontal, Right side of Stock Up:	Pass <input checked="" type="checkbox"/> Fail <input type="checkbox"/>	indent mark on primer
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"/>	

ET09881

TLW

Project No. 241095

Page 1 of 2

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

Firecontrol No. _____ Firecontrol Type: _____ Date: 6/16/99

Dry Cycles/Rounds Completed: _____ Stock Type SYN Engagement at Start _____

Model No. M/710 Serial No. XC 1055 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

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.

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"/>	_____

12.045165

ET09882

9142I (JMS)
TLW 9142I
Project No. 241095

Page 1 of 2

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

Firecontrol No. _____ Firecontrol Type: _____ Date: 6/16/95
Dry Cycles/Rounds Completed: _____ Stock Type Syn Engagement at Start _____
Model No. M/710 Serial No. XC-1062 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

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	

11.915 lbs

ET09883

TLW 91421

Project No. 241095

Page 1 of 2

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

Firecontrol No. _____ Firecontrol Type: _____ Date: 6/16/99

Dry Cycles/Rounds Completed: _____ Stock Type Syn Engagement at Start _____

Model No. M/710 Serial No. XC-1060 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

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 _____	Fail <input checked="" type="checkbox"/>	<u>Fired primed case</u>
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 _____	

12.090 lbs

ET09884

9142I
TLW 9124J
Project No. 27095

Page 1 of 2

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

Firecontrol No. _____ Firecontrol Type: _____ Date: 6/16/99

Dry Cycles/Rounds Completed: _____ Stock Type Syn Engagement at Start _____Model No. M/710 Serial No. XC-1054 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

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 <input type="checkbox"/>	Sear retaining pin came out Fired Primed case
Barrel Horizontal, Bottom of Stock Up:	Pass <input type="checkbox"/>	Fail <input checked="" 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 checked="" type="checkbox"/>	
Barrel Vertical, Muzzle Down:	Pass <input checked="" type="checkbox"/>	Fail <input type="checkbox"/>	

ET09885

TLW 91725Project No. 241095

Page 1 of 2

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

Firecontrol No. _____ Firecontrol Type: _____ Date: 6/16/99Dry Cycles/Rounds Completed: _____ Stock Type SyH Engagement at Start _____Model No. M/710 Serial No. XC-1057 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

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 <input type="checkbox"/>	
Barrel Horizontal, Bottom of Stock Up:	Pass <input type="checkbox"/>	Fail <input checked="" type="checkbox"/>	<u>Fired Primed Case</u>
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"/>	

11.845 lbs

ET09886