

TLW 1689Y

Project No. 241314

270

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

Firecontrol No. A-20 Firecontrol Type: Standard Date: 2/14/05

Dry Cycles/Rounds Completed: Stock Type Syn

Engagement at Start (1) .0201 (2) .0204 (3) .0202 Average .02023

Engagement at End (1) .0187 (2) .0189 (3) .0185 Average .01870

Model No. 710 Serial No. 71262799

Trigger Pull at Start of Test (1) 4.185 (2) 3.982 (3) 3.917 (4) 3.869 (5) 4.195

Average Trigger Pull at Start of Test: 4.018 Std. Dev. of Trigger Pull at Start of Test:

Trigger Pull at End of Test (1) 4.787 (2) 4.820 (3) 4.433 (4) 4.343 (5) 4.439

Average Trigger Pull at End of Test: 4.564 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.

Notes 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 ☒ 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 ☒ Fail ☐	

Notes: (continue on back of sheet if necessary)

Tester's Initials SW/JS

ET22157

TLW 1689ZProject No. 241014

270

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

Firecontrol No. A-20 Firecontrol Type: _____ Date: 2/17/05
 Dry Cycles/Rounds Completed: _____ Stock Type: _____
 Engagement at Start (1) .0202 (2) .0201 (3) .0201 Average .02013
 Engagement at End (1) .0191 (2) .0192 (3) .0201 Average .01946
 Model No. _____ Serial No. _____
 Trigger Pull at Start of Test (1) 4.009 (2) 3.877 (3) 3.944 (4) 4.179 (5) 4.197
 Average Trigger Pull at Start of Test: 4.041 Std. Dev. of Trigger Pull at Start of Test: _____
 Trigger Pull at End of Test (1) 3.699 (2) 3.572 (3) 3.982 (4) 3.757 (5) 4.136
 Average Trigger Pull at End of Test: 3.829 Std. Dev. of Trigger Pull at End of Test: _____

Tester Initials: SW/JJ 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 ☒ Fail _____	
Firearm Vertical, Drop so right side of Stock is Up:	Pass ☒ Fail _____	

Notes: (continue on back of sheet if necessary)

Tester's Initials SW/JJ

ET22158

TLW 1689AAProject No. 241314

270

S.A.A.M.I. JAR-OFF, DROP & ROTATION TEST**DROP TEST**Firecontrol No. A-20 Firecontrol Type: _____ Date: 2/15/08

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

Engagement at Start (1) .0202 (2) .0204 (3) .0203 Average .0203Engagement at End (1) .0203 (2) .0205 (3) .0206 Average .0204

Model No. _____ Serial No. _____ Engagement at End _____

Trigger Pull at Start of Test (1) 4.036 (2) 4.042 (3) 4.181 (4) 3.944 (5) 3.975Average Trigger Pull at Start of Test: 4.036 Std. Dev. of Trigger Pull at Start of Test: _____Trigger Pull at End of Test (1) 3.587 (2) 3.633 (3) 3.665 (4) 3.749 (5) 3.722Average Trigger Pull at End of Test: 3.669 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 the**ISS 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 _____	<u>Bent scope / Broken Trigger</u>
Barrel Horizontal, Bottom of Stock Down:	Pass _____ Fail _____	

Notes: (continue on back of sheet if necessary)

Broken Trigger Bottom up

ET22159

TLW 1689AA

Project No. 341314

270

S.A.A.M.I. JAR-OFF, DROP & ROTATION TEST**DROP TEST**Firecontrol No. A-20 Firecontrol Type: _____ Date: 2/22/05

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

Engagement at Start (1) .0198 (2) .0201 (3) .0201 Average .0200Engagement at End (1) .0189 (2) .0189 (3) .0191 Average .0189

Model No. _____ Serial No. _____ Engagement at End _____

Trigger Pull at Start of Test (1) 4.031 (2) 3.991 (3) 4.096 (4) 4.118 (5) 4.190Average Trigger Pull at Start of Test: 4.087 Std. Dev. of Trigger Pull at Start of Test: _____Trigger Pull at End of Test (1) 4.123 (2) 4.174 (3) 4.343 (4) 4.282 (5) 4.188Average Trigger Pull at End of Test: 4.222 Std. Dev. of Trigger Pull at End of Test: _____Tester Initials: SW/JS

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 ☒ Fail _____	

Notes: (continue on back of sheet if necessary)

Insert OK

GUN # A-1
REM MODEL 710
SERIAL # 71202770
30.06 CAL.

M/710 EXTRUDED RECEIVER TRIAL AND PILOT #1

TLW 1689
PROJECT # 241314

NAME	DATE	TEST ACTIVITY	COMMENTS	RDS. FIRED	TOTAL RDS.
B. LEE	1-25-05	Initial Headspace	min 0.003		
B. LEE	1-25-05	Proof	OK	1	1
B. LEE	1-25-05	Headspace	min 0.003		
B. LEE	1-26-05	Firing Pin Indent	0.020 - 0.020 - 0.020 Avg. 0.020		
B. LEE	1-28-05	Safe on/off forces	See data sheet		
H. JC	2-1-05	Weight/Bow depth	" "		
B. LEE	2-2-05	Sear Eng./Lift	" "		
B. LEE	2-3-05	Trigger Pull	" "		
B. LEE	2-4-05	Firing Pin Head Engagement	See data sheet		
H. JC	2-7-05	Screw De-torque Forces	" "		
B. LEE	2-8-05	Torque Screws to Specification	Front 50 in Lb. middle 30-35 in Lb. Rear 15 in Lb.		
B. LEE	2-9-05	200 Rd Jack Function	The 3rd on 4th Rd. of 100 being fixed the bolt would catch halfway using bringing Bolt to the head	200	201
B. LEE	2-16-05	Extnd Function Endurance	" "	500	201
B. LEE	2-17-05	Clean/Inspection	See DATA SHEET		
B. LEE	2-24-05	Shoulder Function	" "	10	711
H. JC	2-24-05	501-1000 function test	" "	500	1211
B. LEE	2-25-05	Clean/Inspection	" "		
B. LEE	2-28-05	1001 + 2000 function test	" "	500	1711
B. LEE	3-1-05	Clean/Inspection	" "		
B. LEE	3-2-05	1501-2000 function test	" "	500	2211
B. LEE	3-2-05	Clean/Inspection	" "		

THIS SHEET IS TO ACCOMPANY THE FIREARM AT ALL TIMES THROUGHOUT TESTING

FORM DTDS.XLS

M710 EXTRUDED RECEIVER TRIAL AND PILOT # 1	
VITY	COMMENTS

BARBER - 5.22.06r0005162

[illegible]

FORM DTDS.XLS

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Confidential - Subj: ORDER - 502,200,000 of 1522 Order

Williams v. Remington