Date Submitted: (Project #: 241314 Test Objective: T Std. SAAMI Jar- Test Description: Test 6 new M/710 Magnum rifle for SAAMI Jar-off. 1. Measure breakaway torque of scope ring mounting screws when loosening. 2. Measure breakaway torque of all take down screws when removing stocks. 3. Measure Trigger/Scar engagement as set by the factory. 4. Measure Trigger Pull as set by the factory. 5. Reset Engagement as needed to .025" 6. Reset Trigger as needed to 4.5 lb. 7. Reassemble with stock & scope to using forque/spees. 8. Perform Standard SAAMI Jar-off testing of all guns. Per our normal procedure if a gun fires during testing, leave the gun as it was dropped and contact a member of management or engineering. Resource Usage: Test Results Required: Formal Report: Data Only: Requested Completion Date: 02/06/04 Test Parts Availability Date: 02/06/04	Test Objective: T Std. SAAMI Jar- Test Description: Test 6 new M/710 Magnum 1. Measure breakaway torque of scope rin 2. Measure breakaway torque of all take of 3. Measure Trigger/Sear engagement as sed. 4. Measure Trigger Pull as set by the factor 5. Reset Engagement as needed to .025" 6. Reset Trigger as needed to 4.5 lb. 7. Reassemble with stock & scope to using 8. Perform Standard SAAMI Jar-off testi Per our normal procedure if a gun fires during dropped and contact a member of management.	rifle for SAAMI Jar-off. Ing mounting screws when loosening. Idown screws when removing stocks. et by the factory. ory.
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Resource Usage: Manpower Requirements – Required Completion Date: 02/06/04 Facility Requirements – Required Materials/Parts/Equipment (include quantities):	dropped and contact a member of manageme	
Resource Usage: Manpower Requirements – Required Completion Date: 02/06/04 Facility Requirements – Required Materials/Parts/Equipment (include quantities):	dropped and contact a member of manageme	ig testing, leave the gun as it was
Resource Usage: Manpower Requirements – Requested Completion Date: 02/06/04 Facility Requirements – Required Materials/Parts/Equipment (include quantities):	Resource Usage:	
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Requested Completion Date: 02/06/04 Facility Requirements – Required Materials/Parts/Equipment (include quantities):	Manpower Requirements – Fo	ormal Report: Data Only:
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Required Materials/Parts/Equipment (include quantities):	Re	equested Completion Date: 02/06/04
Required Materials/Parts/Equipment (include quantities):	1 -285	
	Tachty Requirements	ļ
Test Parts Availability Date: 02/06/04	Required Materials/Parts/Equipment (includ	le quantities):
Test Parts Availability Date: 02/06/04		
Test Parts Availability Date: 02/06/04		
Tana Tana Tana Tana Tana Tana Tana Tana	Test Parts Availability Date: 02/06/04	
Start Date: 2/6/04 Test Assigned To: Steve Wade & Jeff Wade		d To: Steve Wade & Joff Wade
		u io. Bieve waue & Jeh waue
Completion Date: 2/9/04		
1	Report Date: 2/9/04 Assignment	D

Test Lab Work Request Form

Rev.3 -20 April, 2000

Date Submitted: 02/06/04	Tracking #:	TLW 1395
Project #: 241314	Engineer: Fran	az.

Test Objective: Test 710 Magnum Firecontrol performance at new settings during

Std. SAAMI Jar-off testing

Test Description: Test 6 new M/710 Magnum rifle for SAAMI Jar-off.

- 1. Measure breakaway torque of scope ring mounting screws when loosening.
- 2. Measure breakaway torque of all take down screws when removing stocks.
- 3. Measure Trigger/Sear engagement as set by the factory.
- 4. Measure Trigger Pull as set by the factory.
- 5. Reset Engagement as needed to .025"
- 6. Reset Trigger as needed to 4.5 lb.
- 7. Reassemble with stock & scope to using torque specs.
- 8. Perform Standard SAAMI Jar-off testing of all guns.

Per our normal procedure if a gun fires during testing, leave the gun as it was dropped and contact a member of management or engineering.

Resource Usage	: Test Results Required:
Manpower Requirements –	Formal Report: Data Only:
Side Side Side	Requested Completion Date: 02/06/04
Facility Requirements –	
Required Materials/Parts/E	quipment (include quantities):
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Test Parts Availability Date	: 02/06/04
Test Parts Availability Date Start Date: 2/6/04	: 02/06/04 Test Assigned To: Steve Wade & Jeff Wade

	· · · · · · · · · · · · · · · · · · ·	2019 2007 2007				
SERIAL # 71146753	TORQUE OF SCOPE FRONT	TORQUE OF SCOPE REAR				
	TAKE DOWN SCREW	TAKE DOWN SCREW				
	26 INCH LB.	30 INCH LB.				
	West					
		TORQUE OF STOCK MIDDLE				
	TAKE DOWN SCREW	TAKE DOWN SCREW	TAKE DOWN SCREW			
	35 INCH LB.	22 NCH LB	17 INCH LB.			
		2				1
ENGAGEMENT	1	2	3	AVG		
	0.0311	0,0312	0.0308	0.03103		
TRIGGER PULL	1	2	3	4	5	AVG
TRIGGER SCAN	5.998	<i>5</i> .063 €	6.138	5.559	5.733	5.898
SPRING SCALE	6.0	5.75	6.0	6.0	5.75	5.900
SERIAL # 71147098	TORQUE OF SCOPE FRONT	TORQUE OF SCOPE REAR				
	TAKE DOWN SCREW	TAKE DOWN SCREW				
	30 INCH LB.	35 INCH LB				
	TORQUE OF STOCK FRONT	TORQUE OF STOCK MIDDLE	TORQUE OF STOCK REAR			
	TAKE DOWN SCREW	TAKE DOWN SCREW				
	30 INCH LB.	25 INCH LB	11 INCH LB.			
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
ENGAGEMENT	1	2	3	AVG		
ENGNOEMEN	0.0297	0.0298	0.0300	0.0298		
	0.020.					
TRIGGER PULL	1	2	3	4	5	AVG
TRIGGER SCAN	5.128	2 5.439	5.154	5.306	5,198	5.245
SPRING SCALE	5.50	5.75	5.50	5.75	5.75	5.650
SERIAL # 71146744	1	TORQUE OF SCOPE REAR				
OLICIAL W 7 1 140144	TAKE DOWN SCREW	TAKE DOWN SCREW	and the second second			
	35 INCH LB.	26 INCH LB.	Final Control of Contr			
	00 111011 20.					
	TORQUE OF STOCK FRONT	TORQUE OF STOCK MIDDLE	TORQUE OF STOCK REAR			
	TAKE DOWN SCREW	TAKE DOWN SCREW	TAKE DOWN SCREW			
	33 INCH LB.	25 INCH LB.	16 INCH LB.			
	00 111011 22.		in the second			

710 OUT OF BOX MEASUREMENTS

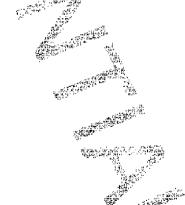
	<u> </u>					
	Section 1997			AVC		<u> </u>
ENGAGEMENT	1	2	3	AVG		ļ
	0.0307	0.0307	0.0308	0.03073		
	第25年					
TRIGGER PULL	1	2	3	4	5	AVG
TRIGGER SCAN	4.844	4.749	4.747	4.963	4.745	4.810
SPRING SCALE	5.25	్ట్రామ్లోలో కా చేస్తేవి.25	5.50	5.25	5.25	5.300
SERIAL # 71147044	TORQUE OF SCOPE FRONT	TORQUE OF SCOPE REAR				
	TAKE DOWN SCREW	TAKE DOWN SCREW				
	25 INCH LB.	20 INCHALB.				
		and the state of t				
	TORQUE OF STOCK FRONT	TORQUE OF STOCK MIDDLE				
	TAKE DOWN SCREW	TAKE DOWN SCREW	TAKE DOWN SCREW			
, , , , , , , , , , , , , , , , , , , ,	30 INCH LB.	25 INCH LB	12 INCH LB.			
		The same of the sa				
ENGAGEMENT	1	2	3	AVG		
	0.0303	0.0302	0.0304	0.03030		
		100 V				
TRIGGER PULL	1	Z	3	4	5	AVG
TRIGGER SCAN	4.755	4.863	4.859	4.755	4.769	4.794
SPRING SCALE	5.0	5.0	5.25	5.25	5.50	5.200
SERIAL # 71147034	TORQUE OF SCOPE FRONT	TORQUE OF SCOPE REAR				
	TAKE DOWN SCREW	TAKE DOWN SCREW				
	52 INCH LB.	25 INCH LB.	(항) 기술 			
	TORQUE OF STOCK FRONT	TORQUE OF STOCK MIDDLE	TORQUE OF STOCK REAR			
	TAKE DOWN SCREW	TAKE DOWN SCREW	TAKE DOWN SCREW			
	34 INCH LB.	17 INCH LB.	18 INCH LB.			
		221				
ENGAGEMENT	1	2		AVG		
2.10/102/112/11	0.0318	0.0315	0.0318	0.03170		
<u> </u>	0.00.0					
TRIGGER PULL	1	2	3	4	5	AVG
TRIGGER SCAN	5.434	5.547	5.468	5.586	5.286	5.464
SPRING SCALE	5.25	5.25	o 5.50	5.50	5.25	5.350
			W. U	· · · · · · · · · · · · · · · · · · ·		

PROJECT # 241314

710 OUT OF BOX MEASUREMENTS

TRACKING # TLW1395

	, (7e)					
SERIAL # 71147082	TORQUE OF SCOPE FRONT	TORQUE OF SCOPE REAR				
	TAKE DOWN SCREW	TAKE DOWN SCREW				
	30 INCH LB.	40 INCH LB.				
	*35	2000 10 12 12 12 12 12 12 12 12 12 12 12 12 12				
	TORQUE OF STOCK FRONT	TORQUE OF STOCK MIDDLE	TORQUE OF STOCK REAR			
	TAKE DOWN SCREW	TAKE DOWN SCREW	TAKE DOWN SCREW			
	32 INCH LB.	23 INCH LB.	13 INCH LB.			
		30 ST				
ENGAGEMENT	1	1 (秋天然) (秋)	3	AVG		
	0.0304	0.0306	0.0304	0.03046		
		785. 151 150 150 150				
TRIGGER PULL	1	2 5.302	3	4	5	AVG
TRIGGER SCAN	5.226	5.302	5.220	5.259	5.324	5.266
SPRING SCALE	5.75	5.302 5.75	5.25	5.50	5.50	5.550



	TLW_\3.95
	Project No. 241314
300 Win Mas S.A.A.M.I. JA	AR-OFF, DROP & ROTATION TEST
JAR-OFF TEST	
Dry Cycles/Rounds Completed: Engagement at Start (1),0351 (2) Engagement at End (1),0351 (2) Model No. 710 Serial No. Trigger Pull at Start of Test (1) 4.593 Average Trigger Pull at Start of Test: 4 Trigger Pull at End of Test (1) 4.506 Average Trigger Pull at End of Test: 4.	Stock Type Standard Date: 2 1 0 4 Stock Type Sym O 3 O 3 5 0 3 10 3 4 5 (3) O 3 4 5 Average O 3 5 0 3 10 3 4 5 (3) Average O 3 5 0 3 10 3 4 5 (3) Average O 3 5 0 3 10 3 4 5 (3) Average O 3 5 0 3 10 3 4 5 (4) Average O 3 5 0 3 10 3 4 5 (4) Average O 3 5 0 3 10 3 4 5 (4) Average O 3 5 0 3 10 3 4 5 (4) Average O 3 5 0 3 10 3 4 5 (4) Average O 3 5 0 3 10 3 4 5 (4) Average O 3 5 0 3 10 3 4 5 (4) Average O 3 5 0 3 10 3 4 5 (5) Average O 3 5 0 3 10 3 4 5 (5) Average O 3 5 0 3 10 3 4 5 (4) Average O 3 5 0 3 10 3 4 5 (5) Average O 3 5 0 3 10 3 4 5 (5) Average O 3 5 0 3 10 3 4 5 (5) Average O 3 5 0 3 10 3 4 5 (5) Average O 3 5 0 3 10 3 4 5 (5) Average O 3 5 0 3 10 3 4 5 (5) Average O 3 5 0 3 10 3 4 5 (5) Average O 3 5 0 3 10 3 4 5 (5) Average O 3 5 0 3 10 3 4 5 (5) Average O 3 5 0 3 10 4 5 (5) Average O 3 5 0 3 10 4 5 (5) Average O 3 5 0 3 10 4 5 (5) Average O 3 5 0 3 10 4 5 (5) Average O 3 5 0 3 10 4 5 (5) Average O 3 5 0 3 10 4 5 (5) Average O 3 5 0 3 10 4 5 (5) Average O 3 5 0 3 10 4 5 (5) Average O 3 5 0 3 10 5 (5) Average O 3 5 0 3 10 5 (5) Average O 3 5 0 3 10 5 (5) Average O 3 5 0 3 10 5 Average O 3 5 0
SAAMI Specifications, for St Jar-Off Test: 12-inch dro Eirecom rei Chamber, 1 After each o 12 inch drop (safe Mie: for Firearms with the	op - onto 1 "thick 85 Durometer (Shore A) Rubber Matt ady in fire, Safe in "Fire" position, Fresh Primed Case in Magazine loaded to capacity with Dummy Rounds. drop, fire Primed Case to verify firearm will still function. ety in "Fire" position) - one drop per orientation. ISS system installed – The ISS will be set in the unlocked
2007 	or all six orientations of the Jar-Off Test
Orientation ISS Barrel Vertical, Muzzle Up: Barrel Vertical, Muzzle Down: Barrel Horizontal, Left side of Stock Up: Barrel Horizontal, Right side of Stock Up: Barrel Horizontal, Bottom of Stock Up: Barrel Horizontal, Bottom of Stock Down: Notes: (continue on back of sheet if necessary)	Pass Fail
	Tester's Initials SW JW Page 1 of 3 Z101\DROPTEST_REV5.DOC

	TLW_1395
	Project No. 341314
300 Win Muy S.A.A.M.I. JAR-OFF, DROP & RO	TATION TEST
JAR-OFF TEST	
Firecontrol No. Firecontrol Type: 57 mmd	Date: 3/1/04
Ory Cycles/Rounds Completed: Stock Type Syn	
Engagement at Start (1),0352 (2),0352 (3),0351	
Engagement at End (1) 10352 (2) 10354 (3) 10351	_ Average .03533
Model No. 710 Serial No. 71147098	
Trigger Pull at Start of Test (1) 4,638 (2)4,608 (3)4,458	(4) 4, 6, 14 (5) 4, 467
Average Trigger Pull at Start of Test: 4,549 Std. Dev. of Tr Trigger Pull at End of Test (1)4,581 (2)4.410 (3)4.49	
Average Trigger Pull at End of Test: 4,49, Std. Dev. of T	
1. 11 1 otal 201. otal 201. otal 201. otal	Tester Initials: SW JW
Additional Notes and Commer	nts
For additional details on the proper procedures to be use	ed for this Test Procedure refer to:
ANSI 7 SAAMI, 7299.5-1	990
SAAMI Specifications for Standard Jan Off Tests	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Jar-Off Test: 12-inch drop - onto 1 hick 85 Duro	· · · · · · · · · · · · · · · · · · ·
Firearm ready to fire, Safe in "Fire" Chamber, Magazine loaded to capac	
After each drop, fire Primed Case to	•
	,
12 inch drop (safety in "Fire" position) - on	e drop per orientation.
Mote: for Firearms with the ISS system installed – Th	e ISS will be set in the unlocked
position for all six orientations of th	he Jar-Off Test
Orientation ISS Unlocked	Comments
Barrel Vertical, Muzzle Up: Pass Fail	
Barrel Vertical, Muzzle Down: Pass Fail	
Barrel Horizontal, Right side of Stock Up: Pass / Fail	4.
Barrel Horizontal, Bottom of Stock Down: Pass Fail	
Notes: (continue on back of sheet if necessary)	
	n L
	Tester's Initials SW TW
	Page 1 c Z101\DROPTEST_REV5.De

TLW	1395
Project No.	241314

300 Win May S.A.A.M.I. JAR-OFF, DROP & ROTATION TEST
JAR-OFF TEST
Firecontrol No Firecontrol Type: _ \$\frac{1}{2} \land Date: _ 3 / 6 0 4
Dry Cycles/Rounds Completed: Stock Type Syn
Engagement at Start (1) 0249 (2) 0251 (3) 0251 Average 02503
Engagement at End (1) 10249 (2) 10249 (3) 10250 Average 102493
Model No. 710 Serial No. 71145744
Trigger Pull at Start of Test (1) \(\frac{1}{2}\) \(\frac{1}{2
Trigger Pull at End of Test (1) 4, 583 (2) 4, 481 (3) 4, 373 (4) 4, 409 (5) 4, 535
Average Trigger Pull at End of Test: 4.474 Std. Dev. of Trigger Pull at End of Test:
Tester Initials: SM, JW.
Additional Notes and Comments
For additional details on the proper procedures to be used for this Test Procedure refer to:
ANST / SA AMT 2299.5-1990
SAAMI Specifications for Standard Jar-Off Tests
Jar-Off Test: 12-inch drop onto 1" thick 85 Durometer (Shore A) Rubber Matt
Finearm 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 / Fail
Barrel Vertical, Muzzle Down: 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 17W
Page 1 of
Z101\DROPTEST_REV5.DO

	TLW_\395
	Project No. 341314
300 Win Mis S.A.A.M.I. JAR-OFF, DROP & ROTAT	TION TEST
JAR-OFF TEST	
Trigger Pull at End of Test (1) 4,533 (2) 4,542 (3) 4,397 (4) Average Trigger Pull at End of Test: 4,489 Std. Dev. of Trigge Additional Notes and Comments	Average 102526 Average 102526
For additional details on the proper procedures to be used for ANSI FSAAMI 7299.5-1990 SAAMI Specifications for Standard Jar-Off Test: Jar-Off Test: 12-inch drop - onto 1 "thick 85 Duromete Firedry ready to fire, Safe in "Fire" post Chamber, Magazine loaded to capacity we affer each drop, fire Primed Case to verify 12 frich drop (safety in "Fire" position) - one drop to the for Firedry with the ISS system installed - The ISS	er (Shore A) Rubber Matt ition, Fresh Primed Case in with Dummy Rounds. fy firearm will still function. op per orientation. S will be set in the unlocked
position for all six orientations of the Ja	
Barrel Vertical, Muzzle Down: Pass Fail Barrel Horizontal, Left side of Stock Up: Pass Fail Barrel Horizontal, Right side of Stock Up: Pass Fail	Comments
	Tester's Initials SW JW Page 1 of 3 Z101\DROPTEST_REV5.DOC

TLW_\3 \5
Project No. 341314
300 Win Mas S.A.A.M.I. JAR-OFF, DROP & ROTATION TEST
AR-OFF TEST
Firecontrol No. Firecontrol Type: Standard Date: 3/L/03 Ory Cycles/Rounds Completed: Stock Type Syn Engagement at Start (1) 0.254 (2) 0.255 (3) 0.252 Average 0.2536 Engagement at End (1) 0.252 (2) 0.0356 (3) 0.0453 Average 0.02536 Model No. 0.010 Serial No. 0.01470 0.0453 Average 0.02536 0.02536 Average Pull at Start of Test 0.01470 0.04493 0.0453
Tester Initials: Sw 7W 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 mch drop onto 1 "thick & 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 mch 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: Barrel Vertical, Muzzle Down: Barrel Horizontal, Left side of Stock Up: Barrel Horizontal, Right side of Stock Up: Barrel Horizontal, Bottom of Stock Up: Barrel Horizontal, Bottom 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 InitialsSW)てい Page 1 of 3 Z101\DROPTEST_REV5.DOC

The section

	TLW <u>1395</u>
	Project No. 341314
300 WIL MINS S.A.A.M.I. JAR-OFF, DROP & RO	TATION TEST
JAR-OFF TEST	
Firecontrol No. Firecontrol Type: 54 nm Dry Cycles/Rounds Completed: Stock Type 3yb	Average ,02546 Average ,02546 (4) 4,455 (5) 4,489 rigger Pull at Start of Test: (4) 4,5\0 (5) 4,53 rigger Pull at End of Test: Tester Initials: SW 360
For additional details on the proper procedures to be use ANSI / SAAMI Z299.5-19 SAAMI Specifications for Standard Jar Off Fest: Jar-Off Test: [2-inch drop - onto 1] thick 85 Duror Fixed m ready to fire, Safe in "Fire" Chamber, Magazine loaded to capaci After each drop, fire Primed Case to a 12 inch drop (safety in "Fire" position) - one Note: for Firearms with the ISS system installed – The	meter (Shore A) Rubber Matt position, Fresh Primed Case in ity with Dummy Rounds. verify firearm will still function. e drop per orientation. e ISS will be set in the unlocked
position for all six orientations of th	
Barrel Vertical, Muzzle Down: Barrel Horizontal, Left side of Stock Up: Barrel Horizontal, Right side of Stock Up: Pass Fail Barrel Horizontal, Bottom of Stock Up: Pass Fail Fail	Comments

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