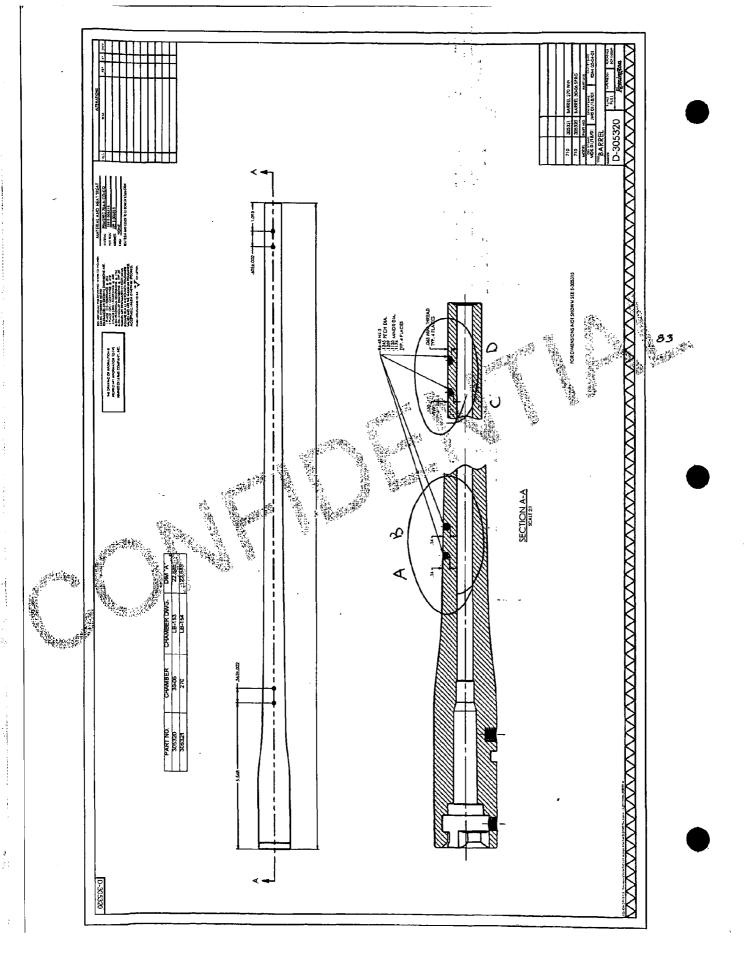
Test Lab Work Request Form

	Rev.3 –20 April, 2000
Date Submitted: 06-07-01	Tracking # :TLW 0546
Project # : 241095	Engineer: M. Keeney
Test Objective: Confirmation of proposed samples' performance when subjected to \$ 6 Guns to be tested, 3 sighted & 3 scoped	· · · · · · · · · · · · · · · · · · ·
 and sear engagement (.020). 4. Perform standard SAAMI Jar-off Test results per our standard test procedure 5. Measure sight screw hole depth on the 	o process minimums for trigger pull (4 lbs.) t, Rotation Test and Drop Test and record es. 3 sighted guns, per print-D-305320. See
Phillip for print & measurement metho	OG.
Resource Usage: Manpower Requirements –	Test Results Required: Formal Report: Data Only:X
Facility Requirements –	Requested Completion Date: 06-13-01
Required Materials/Parts/Equipment (inc Mayfield.	clude quantities): Firearms supplied by
Test Parts Availability Date: 06-07-01	
Completion Date: 06-/2-01	ent Date:06/11/01 July Wade



ET35107

TLW	0546	
Project No	241095	
	Page 2 of 2	

S.A.A.M.I. JAR-OFF, DROP & ROTATION TEST (cont'd)

SAAMI Specifications for Standard Drop Test:

Drop Test:

48 inch drop - onto 1" thick 85 durameter (ShoreA) 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 (safet	y in "Safe" position) - o	ne drop per orient	ation.	4. 6.0. 8.0.	
	•	Com	ments		
Barrel Horizonal, Bottom of Stock Down:	Pass X Fail				e in
Barrel Horizonal, Bottom of Stock Up:	Pass X Fail				
Barrel Horizonal, Left side of Stock Up:	Pass X Fail				
Barrel Horizonal, Right side of Stock Up:	Pass X Fail	1005(2) 1005(3) 1005(3)	100		
Barrel Vertical, Muzzle Up:	Pass X Fail	(%) 1120 100 101 101 100 100 100 100 100 100 10	;h* 		
Barrel Vertical, Muzzle Down:	Pass 🔍 Fail		 		
ूर्व 	i h I l	. 제공() (변화 제공() (변화			
SAAMI Specifications for Sta	ndard Rotation Test:				
Rotation Test: Rest Firear	1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	llow Firegram to E	Eall		
	n ay the Butt ena una a 1" thick 85 durameter				
	t ready to fire,Safe in "I			Case	
in Chamber	r, Magazine loaded to d	apacity with Dum	my Rounds.		
Aster each of	drop Fire Primed Case	to verify firearm v	vill still func	tion,	
"Rotation" (safe	ty in "Safe" position) - o	one drop per orien	tation.		
			Comments		
Firearm Vertical, Drop so Lest side of Stoc	k is Up: Pass X Fai				
Firearm Vertical, Drop so Right side of Sto	ock isUp: Pass <u>X</u> Fail				
			:		
Notes:				Jw	
Notes:				Jw	

TLW_	0546
Project No.	241095
	Page 1 of 2

R:FLe Firecontrol -No. <u>A-1</u>	Firecontrol Type: STANDARS	Date: 6.12-01
Dry Cycles/Rounds Completed:		
Model No. 710 Serial	No. 71015574 Enga	agement at End , 0205
Trigger Pull at Start of Test (1) 4.0	(2) 4,0 (3) 4,0 (4)	4,0 (5) 3.75 (6) 4.0
Average Trigger Pull at Start of Test:	3.96 Std. Dev. of Trig	gger Pull at Start of Test:
Trigger Pull at End of Test (1) 4.0	(2) 4.0 (3) 3.75 (4)	4.0 (5) 4.5 (6) 3.75
Average Trigger Pull at End of Test:	4.0 Std. Dev. of Trigg	ger Pull at End of Test:
Bolt Body Diumeter, L	ditional Notes and Comments	COOL
		:.
For additional details on the pro	per procedures to be used for t	his Test Procedure refer to:
SAAMI Specifications for Stan	NNS1 / SAAMI Z299.5-1990	
1984 Sec. 1975 1974 1975 1976	- onto 1" thick 85 durameter (Shore 4) Rubber Matt
Pirearm read	dy to fire,Safe in "Fire" positio	n, Fresh Primed Case in
589As - 1857.	lagazine loaded to capacity with op Fire Primed Case to verify j	-
12 inch drop (safet	y in "Fire" position) - one drop	per orientation.
		Comments
Barrel Horizonal, Bottom of Stock Down:	Pass X Fail	
Barrel Horizonal, Bottom of Stock Up:	Pass X Fail	
Barrel Horizonal, Left side of Stock Up:	Pass X Fail	
Barrel Horizonal, Right side of Stock Up:	Pass X Fail	
Barrel Vertical, Muzzle Up :	Pass X Fail	
Barrel Vertical, Muzzle Down:	Pass X Fail	

TLW_	0546		
Project No	241095		
	Page Laf 2		

Gifle Firecontrol-No. A-2	Firecontrol Type:_	STANARD	Date: 6-12-01	
Dry Cycles/Rounds Completed:				
Model No. 710 Serial	No. 71016322	Engagemen	at End	
Trigger Pull at Start of Test (1) 4.0	(2) 375 (3) 4	, D (4) 4. O	(5) 4,0 (6) 4.0	
Average Trigger Pull at Start of Test:	3.96 Std. D	ev. of Trigger Pul	l at Start of Test:	i Sa a⊋.
Trigger Pull at End of Test (1) 4.0	(2) 4-0 (3)	3.75 (4) 4.0	(5) 4.25 (6) 4.0	(} - (2) _ 4
Average Trigger Pull at End of Test:	4.0 Std. De	v. of Trigger Pull	at End of Test:	
Add	ditional Notes and C	omments 🖏		A
Bolt Body Diameter, 693	3/ With a	out Scape	1 TARGER Pull Ad	iustea
		24 3 13	,	
			₩.	
For additional details on the pro-	per procedures to be	used for this Tes	t Procedure refer to:	
	ANSI / SAAMI Z299			
<u>Jar-Off Tast</u> 12 inch drop				
Cartonic	dy to fire,Safe in "Fi Iagazine loaded to ca	_		
MX 9 5267. 1007	rop Fire Primed Cas		-	
12 inch drop (safet	y in "Fire" position) -	one drop per orie	entation.	
	-	Ca	nments	
Barrel Horizonal, Bottom of Stock Down:	Pass X Fail			
Barrel Horizonal, Bottom of Stock Up:	Pass X Fail			-
Barrel Horizonal, Left side of Stock Up:	Pass X Fail			
Barrel Horizonal, Right side of Stock Up:			·	
Barrel Vertical, Muzzle Up:	Pass X Fail			-
Barrel Vertical, Muzzle Down:	Pass K Fail			-

TLW	0546	
Project No.	241095	
	Page 2 of 2	

S.A.A.M.I. JAR-OFF, DROP & ROTATION TEST (cont'd)

SAAMI Specifications for Standard Drop Test: Drop Test: 48 inch drop - onto 1" thick 85 durameter (ShoreA) 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.

. A
48 inch drop (safety in "Safe" position) - one drop per orientation.
Comments 83
Barrel Horizonal, Bottom of Stock Down: Pass X Fail front sight fell off
Barrel Horizonal, Bottom of Stock Up: Pass X Fail
Barrel Horizonal, Left side of Stock Up: Pass K Fail
Barrel Horizonal, Right side of Stock Up: Pass K Fail
Barrel Vertical, Muzzle Up: Pass Fail
Barrel Vertical, Muzzle Down: Park X Fait
SAAMI Specifications for Standard Rotation Test:
Rotation Tests Rest Firearm on the Butt end and allow Firearm to Fall
Drop - onto 1" thick 85 durameter (ShoreA) 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" (safety in "Safe" position) - one drop per orientation.
Comments
Firearm Vertical, Drop so Lest side of Stock is Up: Pass X Fail
Firearm Vertical, Drop so Right side of Stock is Up: Pass X Fail
-0. st.7
Notes:

Tester Initials:

TLW_	0546	
Project No	241095	

Page 1 of 2

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

Rifle Firecontrol No. A-3	Firecontrol Type: STANDARD	Date: [0-12-0]
Dry Cycles/Rounds Completed:		
Model No. '710 Serial	No. 710 150 57 Engagen	nent at End
Trigger Pull at Start of Test (1) 4,0	(2) 4.0 (3) 4.0 (4) 4.0	(5) 4,0 (6) 3.75
Average Trigger Pull at Start of Test:	3.96 Std. Dev. of Trigger	Pull at Start of Test:
Trigger Pull at End of Test (1) 4.0	(2) 4.0 (3) 4.25 (4) 3.75	5 (5) 4.0 (6) 40 83
Average Trigger Pull at End of Test:	4.0 Std. Dev. of Trigger P	ull at End of Test:
Bolf Body Diamater, 69	ditional Notes and Comments	E .
For additional details on the pro-	paer procedures to be used for this	Test Procedure refer to:
1977 1880 - 1880 - 1880 - 1880 - 1880 - 1880 - 1880 - 1880 - 1880 - 1880 - 1880 - 1880 - 1880 - 1880 - 1880 - 1880	ANSI / SAAMI Z299.5-1990	
SAAMI Specifications for Star	760 TUBE	
20 22 23 24 25 26 26 26 26 26 26 26 26 26 26 26 26 26	o - onto 1" thick 85 durameter (Shor	os A) Buhhan Matt
752.00	dy to fire,Safe in "Fire" position, F	•
	Magazine loaded to capacity with Di	
	lrop Fire Primed Case to verify fired	
12 inch drop (safe	ty in "Fire" position) - one drop per	orientation.
観響が		Comments
Barrel Horizonal, Bottom of Stock Down:	Pass X Fail	
Barrel Horizonal, Bottom of Stock Up:	Pass X Fail	
Barrel Horizonal, Lest side of Stock Up:	Pass X , Fail	
Barrel Horizonal, Right side of Stock Up:		
Barrel Vertical, Muzzle Up:		·
Barrel Vertical, Muzzle Down:		
$T = H_1 \cup H_2 \cup H_3 \cup H_4 \cup $		

		Project No	241095
,			Page 2 of 2
,	S.A.A.M.I. JAR-OFF, DROP & 1	ROTATION TEST (cont'd)	
	, , , , , , , , , , , , , , , , , , ,	•	
SAAMI Spec	ifications for Standard Drop Test:		
<u>Drop Test</u> :	Firearm not ready to fire,Saj in Chamber, Magazine load	85 durameter (ShoreA) Rubbel fe in "Safe" position, Fresh Pr ed to capacity with Dummy Ro Case to verify firearm will sti	imed Case ounds.
4	8 inch drop (safety in "Safe" posit	ion) - one drop per orientation	
larrel Horizonal, Bott Barrel Horizonal, Left Barrel Horizonal, Rigi Barrel Vertical, Muzz Sarrel Vertical, Muzz	side of Stock Up: Pass X Fail It side of Stock Up: Pass X Fail It cup: Pass X Fail It cup: Pass X Fail It come Pass X Fail It cife ations for Standard Rotation I Est: Rest Firearm on the Butt en Drops onto 1" thick 85 during the standard to fire, So in Chamber, Magazine load After each drop Fire Primes	est: d and allow Firearm to Fall ameter (ShoreA) Rubber Matt fe in "Safe" position, Fresh P ded to capacity with Dunmy R I Case to verify firearm will st	rimed Case ounds, ill function.
¥	"Rotation" (safety in "Safe" posi		
		Com	
	so Left side of Stock is Up: Pass \(\frac{\lambda}{2}\)		· · · · · · · · · · · · · · · · · · ·
urearm Vertical, Dro	p so Right side of Stock isUp: Pass	rail	
Notes:		·	
		Tester li	nitials: Jw
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	100 Sec. 2000		·
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TLW 0546

TLW	0546
Project No	241095
	Page 1 of 2

Ritle	Firecontrol Type: STANDARD Date: 6-12-01
	Stock Type STANDARD Engagement at Start .0204
Model No. 710 Scrial	No. 710 17722 Engagement at End 10204
	(2) 4,0 (3) 4,5 (4) 4,0 (5) 4,0 (6) 4,0
Average Trigger Pull at Start of Test:	4.08 Std. Dev. of Trigger Pull at Start of Test:
Trigger Pull at End of Test (1) 4.5	(2) 4.5 (3) 5.0 (4) 4.5 (5) 4.25 (6) 4.75
Average Trigger Pull at End of Test:	4.58 Std. Dcv. of Trigger Pull at End of Test:
Bolt Boily Diameter, 693	ditional Notes and Comments 35 / with Scape
For additional details on the pro-	oper procedures to be used for this Test Procedure refer to:
SAAMI Specifications for Stan <u>Jar-Off Test:</u> 12 inch drop Pricarm rea Chamber, A	ANSI / SAAMI 7299.5-1990 Indard Jar-Off Test: In - onto 1" thick 85 durameter (ShoreA) Rubber Matted of the fire of the fire, Safe in "Fire" position, Fresh Primed Case in Magazine loaded to capacity with Dummy Rounds. In Primed Case to verify firearm will still function.
12 inch drop (safet	ty in "Fire" position) - one drop per orientation.
	Comments
Barrel Horizonal, Bottom of Stock Down:	Pass X Fail
Barrel Horizonal, Bottom of Stock Up:	Pass X Fail
Barrel Horizonal, Left side of Stock Up:	Pass X Fail
Barrel Horizonal, Right side of Stock Up:	Pass X Fail
Barrel Vertical, Muzzle Up:	Pass 🗶 Fail
Barrel Vertical, Muzzle Down:	Pass X Fail
• 100°	

TLW 0546	
Project No. 241 095	<u> </u>
Page 2	of 2
S.A.A.M.I. JAR-OFF, DROP & ROTATION TEST (cont'd)	
SAAMI Specifications for Standard Drop Test:	
<u>Drop Test</u> : 48 inch drop - onto 1" thick 85 durameter (ShoreA) 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.	
Comments	83
Barrel Horizonal, Bottom of Stock Down: Pass X Fail Barrel Horizonal, Bottom of Stock Up: Pass X Fail Bent Stopen	A WHAT
	-
Barrel Horizonal, Left side of Stock Up: Pass X Fail Barrel Horizonal, Right side of Stock Up: Pass X Fail	
Barrel Vertical, Muzzle Up: Pass X Fait	
Barrel Vertical, Muzzle Down: Pass X Fail Loose Scope	
Daner Vertical, Muzzie Down: Pass Rain Leoge Store	
SAAMI Specifications for Standard Rotation Test:	
Rotation Test: Rest Firearm on the Butt end and allow Firearm to Fall	
Drop - onto 1" thick 85 durameter (ShoreA) 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" (safety in "Safe" position) - one drop per orientation.	
Comments	
Firearm Vertical, Drop so Left side of Stock is Up: Pass X Fail	
Firearm Vertical, Drop so Right side of Stock isUp: Pass X Fail	
All the second s	
Notes:	
	<u>-</u>
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Tester Initials:	<i>w</i>

TLW	0546
Project No	241095
	Page 1 of 2

Rifle Firecontrol-No. A - 5	Firecontrol Type: STANDARD Date: 6-12-01
	Stock Type STANDARD Engagement at Start 10203
Model No. 710 Serial	No. 710 159 2 1 Engagement at End , 0205
Trigger Pull at Start of Test (1) 4.0	(2) 3.75 (3) 4.0 (4) 4.0 (5) 4.0 (6) 4.0 4
Average Trigger Pull at Start of Test:	3.9 Std. Dev. of Trigger Pull at Start of Test
Trigger Pull at End of Test (1) 375	5 (2) 4.25 (3) 4.0 (4) 3.75 (5) 3.75 (6) 4.8
Average Trigger Pull at End of Test:	3.92 Std. Dev. of Trigger Pull at End of Test:
Bolt Body Diameter	Iditional Notes and Comments
25.	
For additional details and he pro	oper procedures to be used for this Test Procedure refer to:
	ANSI / SAAMI Z299.5-1990
SAAM! Specifications for Star	(2) (2) (2) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4
	p = onto 1" thick 85 durameter (ShoreA) Rubber Matt
Firearm rea	ndy to fire,Safe in "Fire" position, Fresh Primed Case in
	Magazine löaded to capacity with Dummy Rounds. Irop Fire Primed Case to verify firearm will still function.
	ty in "Fire" position) - one drop per orientation.
12 mon drop (sare)	Comments
Parrel Harizanal Battam of Stock Days	Pass X Fail
	Pass X Fail
Barrel Horizonal, Left side of Stock Up:	Pass X Fail
	Pass X Fail
Barrel Vertical, Muzzle Up:	Pass X Fail
Barrel Vertical, Muzzle Down:	Pass X Fail

		TLW	0546
		Project No.	241095
			Page 2 of 2
S.A	A.M.I. JAR-OFF, DROP & ROTA	TION TEST (cont'd)
	$\alpha_{ij} = 1/\epsilon_{ij}$		
SAAMI Specifi	cations for Standard Drop Test:		
<u>Drop Test</u> :	48 inch drop - onto 1" thick 85 du Firearm not ready to fire,Safe in ' in Chamber, Magazine loaded to After each drop Fire Primed Case	Safe" position, Fresh I capacity with Dummy I	Primed Case Rounds.
48	nch drop (safety in "Safe" position) -	one drop per orientatio	n.
	,	Commen	ıts
	of Stock Down: Pass X Fail		
arrel Horizonal, Bottom		Bend scope	
arrel Horizonal, Left sid	26.55		
Jarrel Horizonal, Right s		135 1532 153 100 153 1	NEW THE PERSON NAMED IN COLUMN TO TH
Iarrel Vertical, Muzzle l Iarrel Vertical, Muzzle I	aris to a second		*.
	leations for Standard Rotation Test:	3 () () () () () () () () () (
	Rest Firearm on the Butt end and	allow Fivearm to Fall	
Notation is a	Drop - onto 1" thick 85 duramete		ıt.
	Firearm not ready to fire,Safe in	"Safe" position, Fresh	Primed Case
	in Chamber, Magazine loaded to		
	After each drop Fire Primed Cas		J
, "1	Rotation": (safety in "Safe" position)	one drop per orientation	on.
		Con	nments
Firearm Vertical, Drop se	Lest side of Stock is Up: Pass X	ail	
Firearm Vertical, Drop s	o Right side of Stock is Up: Pass X F	ail	
			s.

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Tester Initials:

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TLW	0546
Project No	241 095
	Page 1 of 2

RiPle	·
	Firecontrol Type: STANDARD Date: 6-12-01
Dry Cycles/Rounds Completed:	Stock Type STANDARD Engagement at Start 10204
Model No. 710 Serial N	No. 71016333 Engagement at End 10205
Trigger Pull at Start of Test (1) 4.0	(2) 4.0 (3) 4.0 (4) 3.75 (5) 4.0 (6) 4.0
Average Trigger Pull at Start of Test:	3.a6 Std. Dev. of Trigger Pull at Start of Test:
Trigger Pull at End of Test (1) 4.5	(2) 3.75 (3) 3.75 (4) 4.0 (5) 4.0 (6) 4.0 53
Average Trigger Pull at End of Test:	4.0 Std. Dev. of Trigger Pulkat End of Test:
Bolt Body Diameter, 6933	itional Notes and Comments
	The state of the s
For additional details on the mon	per procedures to be used for this Test Procedure refer to:
SAAMI Specifications for Stando <u>Jar-Off Test</u> 12 meh drop - Firearm ready Chamber, Mo After each dro	NSI ESAAMI Z299.5-1990 lard Jar-Off Test: - onto 1" thick 85 durameter (ShoreA) Rubber Matt ly to fire,Safe in "Fire" position, Fresh Primed Case in lagazine loaded to capacity with Dummy Rounds. - op Fire Primed Case to verify firearm will still function. y in "Fire" position) - one drop per orientation.
12 men drop (safety	Comments
D. Allaniana Datam of Shah Davis	
Barrel Horizonal Bottom of Stock Up : A	Pass X Fail Pass X Fail
Barrel Horizonal. Left side of Stock Up:	Pass X Fail

	, , ,		TLW_	0546
	. :		Project No	241095
				Page 2 of 2
S.,	A.A.M.I. JAR-OFF, D	ROP & ROTAT	ION TEST (cont'd)	
	The same			
SAAMI Specif	ications for Standard D	rop Test:		
<u>Drop Test</u> :	Firearm not ready in Chamber, Maga	to fire,Safe in "So izine loaded to ca	neter (ShoreA) Rubbe ife" position, Fresh Pi pacity with Dummy Ri verify firearm will sti	rimed Case ounds.
48	inch drop (safety in "S	afe" position) - oı	e drop per orientation	
Barrel Horizonal, Botton Barrel Horizonal, Left si Barrel Horizonal, Right Barrel Vertical, Muzzle Barrel Vertical, Muzzle SAAMI Speci	de of Stock Up: Pass side of Stock Up: Pass Up: Pass Down: Pass fications for Standard i Rest Firearm on th Drop - onto 1" thi Eirearm not ready in Chamber, Mag After each drop Fi	Fail Fail Fail Fail Fail Fail Fail Fail	Be A SCUPE low Firearm to Fall ShoreA) Rubber Matt afe" position, Fresh H apacity with Dummy H o verify firearm will st	Primed Case Rounds. till function.
	Rotation"; (safety in "S	afe" position) - o	ne drop per orientation	1.
y*	٠.			ments
	o Lest side of Stock is Up:	·		
	so Right side of Stock isUp	: Pass Fail		
Firearm Vertical, Drop	5		:	
	i		:	
Notes:	Y		:	
			:	
			:	
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