

Test Lab Work Request Form

Rev.3 -20 April, 2000

Date Submitted: 06-13-01	Tracking # : TLW 0549
Project # : 241314	Engineer: M. Keeney
Test Objective: Document current production M/710 bolt opening and closing forces.	
Test Description: Sample 6 firearms, measure bolt closing and opening forces 3 times per each rifle. Also as a comparison, re-measure bolt opening & closing forces taken on competitor's rifles (TLW0305). DATA PROVIDED	
Resource Usage: Manpower Requirements - Facility Requirements -	Test Results Required: Formal Report: Data Only: X Requested Completion Date:
Required Materials/Parts/Equipment (include quantities):	
Test Parts Availability Date: 06-13-01	
Start Date: 06-13-01 Completion Date: 06-14-01 Report Date: 06-14-01	Test Assigned To: Bob Lee Assignment Date: 06/13/01 

ET20043

PROJECT : # 241314
TLW : # 0549

M/710 / COMPETITIVE RIFLES
BOLT OPENING/ CLOSING FORCES

START DATE : 06-13-01
FINISH DATE 06-14-01

PROJECT # 241314							
TLW : 0549							
BOLT OPENING / CLOSING FORCES ON M / 710				710, 700 AND COMPETITIVE CENTER FIRE RIFLES			
OPENING FORCE / FALLEN FIRING PIN							
GUN	SERIAL #	#1	#2	#3		AVG.	
(OLD) REM / M/710	71001080	13.46	14.2	14.3		13.98	
SAKO 995	888346	5.36	5.48	5.62		5.486	
SAVAGE 110	F683474	7.14	6.86	6.72		6.906	
WINCHESTER M/70	G2197198	11.52	11.28	11.06		11.28	
BROWNING A-BOLT	73170NT8C7	5.46	5.26	5.16		5.293	
REM M/ 700 ADL	E6229121	10.46	12.24	11.08		11.26	
(NEW) REM M/710	71016322	11.6	10.4	11.34		11.11	
(NEW) REM M/710	71015574	10.04	10.84	10.56		10.48	
(NEW) REM M/710	71015057	13.9	14.42	13.16		13.82	
CLOSING FORCE							
GUN	SERIAL #	#1	#2	#3		AVG.	
(OLD) REM M/710	71001080	DELETED	DELETED	DELETED			
SAKO 995	888346	8.18	8.16	8.1		8.146	
SAVAGE 110	F683474	11.26	11.02	11.68		11.32	
WINCHESTER M/70	G2197198	8.02	9.72	9.1		8.946	
BROWNING A-BOLT	73170NT8C7	8.12	8.3	8.16		8.193	
REM M/ 700 ADL	E6229121	8.52	8.28	7.64		8.146	
(NEW) REM M/710	71016322	10.6	10.32	10.2		10.37	
(NEW) REM M/710	71015574	10.48	10.76	10.46		10.56	
(NEW) REM M/710	71015057	13.5	13.26	12.74		13.16	

ET20044

old

PROJECT# 241095						
TLW 0305						
BOLT OPENING/CLOSING FORCES ON M/710,700 AND COMPETITIVE CENTER FIRE RIFLES						
OPENING FORCE						
GUN	SERIAL#	1	2	3	AVERAGE	Location
REM M/710	71001080	10.4	10.5	10.08	10.32667	8BA
BROWNING A-BOLT	73170NT8C7	8.7	8.76	7.96	8.473333	J. Ronkainen
SAKO 995	888346	13.64	12.78	10.9	12.44	J. Ronkainen
SAVAGE 110	F683474	9.24	8.62	7.83	8.563333	4B27
WINCHESTER M/70	G2197198	8.12	7.4	7.82	7.78	3A.53
REM M/700 ADL	E6229121	11.64	11.8	10.96	11.46667	2B39
CLOSING FORCE						
GUN	SERIAL#	1	2	3	AVERAGE	
REM M/710	71001080	11.9	12.4	12.5	12.26667	
BROWNING A-BOLT	73170NT8C7	12.7	12.86	13.1	12.88667	
SAKO 995	888346	10.76	9.22	8.96	9.646667	
SAVAGE 110	F683474	8.22	8.84	8.42	8.493333	
WINCHESTER M/70	G2197198	10.72	10.5	9.89	10.37	
REM M/700 ADL	E6229121	9.6	10.2	9.85	9.883333	
					X	

ET20045

PROJECT: # 241314
TLW: # 0549

M/710 / COMPETITIVE RIFLES

BOLT OPENING/ CLOSING FORCES

START DATE : 06-13-01
FINISH DATE : 06-14-01

PROJECT # 241314					
TLW : 0549					
BOLT OPENING / CLOSING FORCES ON M / 710					
OPENING FORCE / <i>Fallen Firing Pen</i>					
GUN	SERIAL #	#1	#2	#3	AVG.
Ram 710	71001080	13.46	14.20	14.30	
SAK6 995	888346	5.36	5.48	5.62	
SAVAGE 110	F683474	7.19	6.86	6.72	
Winchester m/70	G2197198	11.52	11.28	11.06	
Ram m/710 ADL	E6229121	10.46	12.24	11.08	
Browning A-Bolt	73170NT8C9	5.46	5.26	5.16	
Ram m/710	71016322	11.60	10.46	11.34	
Ram m/710	71015574	10.04	10.84	10.56	
CLOSING FORCE	71015057	13.90	14.62	13.16	
GUN	SERIAL #	1 #	2 #	3 #	AVG.
Ram 710	71001080				
SAK6 995	888346	8.18	8.16	8.10	
Winchester p/70	G2197198	8.02	9.72	9.10	
Ram m/710 ADL	E6229121	8.52	8.28	7.64	
SAVAGE 110	F683474	11.26	11.02	11.68	
Browning A-Bolt	73170NT8C9	8.12	8.30	8.16	
Ram m/710	71015574	10.48	10.76	10.46	
Ram m/710	71015057	13.50	13.26	12.74	
Ram m/710	71016322	10.60	10.32	10.20	

ET20046