

M7710 Firearm Evaluation (12 guns)
 Pre-testing Measurements
 Test Date: 09/14/99

Serial Number	Engagement	Trigger Pull	Head Space	Firing Pin Indent				
XC1078	0.0249	3.5	0.002					
XC1077	0.0219	4.25	0.003					
XC1067	0.0235	4.75	0.001					
XC1068	0.0222	3.5	0.002					
XC1074	0.0241	4.25	0.0241					
XC1064	0.0218	4	0.003					
XC1080	0.0231	4	0.002					
XC1075	0.0245	4.5	0.002					
XC1066	0.0235	4.5	0.001					
XC1071	0.0208	4	0.001					
XC1069	0.0247	3.5	MIN.					
XC1070	0.0228	4.5	0.001					

Confidential - Subject to Protective Order
 Williams v. Remington

ET36149

Test Lab Work Request Form

Date Submitted: 13 Sept., 1999	Tracking #: TLW 9256A
Project #: 241095	Engineer: M. D. Keeney
Test Objective: Complete pre-test firing pin indent evaluation.	
Test Description: 1. Use 30-06 copper crusher holder and correct copper crusher. 2. Load, fire and record firing pin indent (3) times for each firearm. 3. Record each indent per firearm on spreadsheet supplied Use standard S.A.A.M.I. procedures for performing indent evaluation.	
Resource Usage: Manpower Requirements - 1 Tech. Facility Requirements -	Test Results Required: Formal Report: Data Only: X REQUESTED Completion Date: 15 Sept., 1999
Required Materials/Parts/Equipment (include quantities):	
Test Parts: Availability Date	
Start Date: Completion Date: Report Date:	Test Assigned To:

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ET36150

Test Lab Work Request Form

Date Submitted: 13 Sept., 1999	Tracking #: TLW 9256B
Project #: 241095	Engineer: M. D. Keeney
Test Objective: Complete standard proof test of 12 M/710 test sample firearms supplied.	
Test Description: <ol style="list-style-type: none"> 1. Record headspace after firing (1) Proof round in each firearm. 2. Use lanyard and use extreme caution, comply with all safety procedures when proofing firearms. 3. After firing proof round examine rifle for any signs of damage especially in the chamber area, bolt lugs, bolt face, extractor, or ejector. Examine locking lug area in the barrel for any indication of cracking or swelling of material. Note anything of unusual nature. Check firing pins for damage. Check fired case for any indication of primer setback or rings in chamber area. 4. For each of the rifles that pass, imprint with proof stamp on right side of barrel at the chamber location. 	
Resource Usage: Manpower Requirements - 1 Tech Facility Requirements -	Test Results Required: Formal Report: Data Only: REQUESTED Completion Date: 15 Sept., 1999
Required Materials/Parts/Equipment (include quantities): (12) .30-06, industry standard proof loads. Proof stamp	
Test Parts: Availability Date	
Start Date: Completion Date: Report Date:	Test Assigned To:

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ET36151

Test Lab Work Request Form

Date Submitted: 13 Sept., 1999	Tracking #: TLW 9256C
Project #: 241095	Engineer: M. D. Keeney
Test Objective: Complete 200 round standard ammunition functional evaluation of each of the 12 samples provided.	
Test Description: 1. Perform standard procedure, Function and Casualty Testing on all M/710 rifles provided. Load magazine to capacity of 4 rounds, insert into open action, close and begin firing. Use uniform sample of each type of 30-06 ammunition currently inventoried. 2. For each round fired, note whether malfunction occurred, if so, note type. Inspect and note if magazine disengages during shooting. 3. As a minimum each data sheet should list the tester's initials, the date, beginning and ending round level covered by that data sheet, the TLW... number, firearm serial number, firearm sample number, the ammunition type and lot number. Use standard centerfire test procedures for shooting of these firearms. Use extreme caution, comply with all safety procedures for handling and shooting firearms. Leather gloves are recommended due to excessive abrasion of hands while handling and shooting firearms.	
Resource Usage: Manpower Requirements - 2 technicians Facility Requirements -	Test Results Required: Formal Report: Data Only: X REQUESTED Completion Date: 29 Sept., 1999
Required Materials/Parts/Equipment (include quantities): 2400 rounds of standard 30-06 ammunition, variety of bullet types and weights should be used based on current inventory.	
Test Parts: Availability Date	
Start Date: Completion Date: Report Date:	Test Assigned To:

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ET36152

Test Lab Work Request Form

Date Submitted: 13 Sept., 1999	Tracking #: TLW 9256D
Project #: 241095	Engineer: M. D. Keeney
Test Objective: Complete standard S.A.A.M.I. drop, jar-off and rotation testing of each of the (12) M/710 actions provided.	
Test Description: 1. Perform standard procedure S.A.A.M.I. drop, jar-off, and rotation testing on each of rifles submitted. Examine each rifle after each drop using S.A.A.M.I. procedures. Load chamber with 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 S.A.A.M.I. forms to record results for each drop. Forms should include the tester's initials, the date, the TLW... number, the firearm serial number, and the firearm sample number. 3. Due to the prototype nature of the sample provided, the drop testing will be completed with the use of a "sample" stock constructed of resin board. Provisions for attachment and damage resulting during drop testing are to be reviewed by the engineer, technician and testing manager.	
Resource Usage: Manpower Requirements - 1 technician Facility Requirements -	Test Results Required: Formal Report: Data Only: X REQUESTED Completion Date: 15 Oct., 1999
Required Materials/Parts/Equipment (include quantities): Primed cases with bullets and powder removed to cover the testing of 12 actions. 85-durameter rubber mat.	
Test Parts: Availability Date	
Start Date: Completion Date: Report Date:	Test Assigned To:

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ET36153

Test Lab Work Request Form

Date Submitted: 13 Sept., 1999	Tracking #: TLW 9256E
Project #: 241095	Engineer: M. D. Keeney
Test Objective: Complete accuracy evaluation of all (12) M/710 actions supplied.	
Test Description: 1. Clean actions complete before firing for accuracy. 2. Use test procedure used for accuracy testing of competitive firearms (TLR 9210A) Thoroughly clean barrels before shooting and between ammo types. Swab bore with one cotton patch saturated with Hoppe's solvent followed by four dry patches after each 5 shot group. Shot one fouling shot prior to shooting each group. 3. Use Remington ammunition lot #'s F28JC13 (Rem R30062) and F08UB25 (Rem R30064) to shoot 5 (5) shot groups of each specification for a total of 10 groups per firearm. 4. Record firearms serial number, firearm sample number, ammunition designation and lot number, each group size measurement, and calculate average group per ammo per firearm.	
Resource Usage: Manpower Requirements - 2 technicians Facility Requirements -	Test Results Required: Formal Report: Data Only: X REQUESTED Completion Date: 08 Oct., 1999
Required Materials/Parts/Equipment (include quantities): Remington R30062 lot # F28JC13 and Remington R30064 lot # F08UB25 ammunition. Approximately 360 rounds of each ammunition specification.	
Test Parts: Availability Date	
Start Date: Completion Date: Report Date:	Test Assigned To:

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