

Test Lab Work Request Form

Date Submitted: 10 March, 2000	Tracking #: TLW 0010E
Project #: 241095	Engineer: J.R.SNEDEKER
Test Objective: <u>TLW0010E – Measure Sear/Trigger Engagement and Sear Lift:</u> The Sear/Trigger Engagement will be measured. The amount of engagement must be measured between .020" and .025" measured with the bolt in the fully closed and locked position. Minimum Sear lift is 0.006" and maximum sear lift is 0.018".	
Test Description: <u>Method for measuring Sear/Trigger Engagement:</u> - The 30" Optical comparator will be used to measure the engagement at 50X magnification. - With the barreled action held firmly in position, the barreled action will be aligned such that the action is held perpendicular to the lens in both the horizontal and vertical planes. - With action closed and locked, the safety in the "fire" position, measure the amount of overlap between the sear and the trigger. <u>Method for measuring Sear Lift:</u> - Remove the bolt from the action. - Place the Safety in the "Off-Safe" (i.e. "Fire") position. - With the action held firmly in a horizontal position pre-load the sear in the downward position using a small screwdriver and with a dial indicator zeroed on the top of the sear, gently rotate the Safety to the "On-Safe" position. - Record the amount of vertical movement of the sear. - Minimum sear lift is 0.006" and maximum sear lift is 0.018" <u>Data Required:</u> - Rifle Serial number - Record Sear/Trigger Engagement - Record Sear Lift	
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:	
Start Date: 3-17-00 Completion Date: 3-17-00 Report Date: 7/7	Test Assigned To: JESSE ARNOLD & BOB LEE 16 March, 2000

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PROJECT# 241095					
TLW 0010E					
SEAR/TRIGGER ENGAGEMENT AND SEAR LIFT					
DATE -	3/17/00				
SEAR/TRIGGER ENGAGEMENT					
GUN#	SERIAL#	1	2	3	AVERAGE
A-1	XC1116	0.0251	0.0245	0.0245	0.0247
A-2	XC1117	0.0182	0.0175	0.018	0.0179 ✓
A-3	XC1118	0.0204	0.0227	0.0226	0.0219
A-4	XC1119	0.0238	0.0237	0.0216	0.023033333
A-5	XC1120	0.0227	0.0221	0.0224	0.0224
A-6	XC1121	0.0181	0.0177	0.0174	0.017733333 ✓
A-7	XC1122	0.0212	0.0233	0.0223	0.022266667
A-8	XC1123	0.0223	0.0218	0.0211	0.021733333
A-9	XC1124	0.0249	0.0235	0.0228	0.023733333
A-10	XC1125	0.0223	0.0231	0.0227	0.0227
A-11	XC1126	0.029	0.0281	0.029	0.0287 *
A-12	XC1127	0.0273	0.0257	0.0239	0.025633333 *
A-13	XC1128	0.0271	0.023	0.0246	0.0249
A-14	XC1129	0.0195	0.0186	0.0221	0.020066667
A-15	XC1130	0.0234	0.0214	0.0222	0.022333333
SEAR LIFT					
GUN#	SERIAL#	1	2	3	AVERAGE
A-1	XC1116	0.008	0.0091	0.0089	0.008666667
A-2	XC1117	0.0102	0.0093	0.0109	0.010133333
A-3	XC1118	0.0093	0.0089	0.0079	0.0087
A-4	XC1119	0.0091	0.0087	0.0112	0.009666667
A-5	XC1120	0.0093	0.009	0.01	0.009433333
A-6	XC1121	0.0113	0.0115	0.0113	0.011366667
A-7	XC1122	0.0091	0.0095	0.0087	0.0091
A-8	XC1123	0.0102	0.01	0.0101	0.0101
A-9	XC1124	0.0096	0.0093	0.0093	0.0094
A-10	XC1125	0.0093	0.0092	0.0094	0.0093
A-11	XC1126	0.0106	0.0098	0.0107	0.010366667
A-12	XC1127	0.0105	0.0113	0.0108	0.010866667
A-13	XC1128	0.0084	0.0088	0.0087	0.008633333
A-14	XC1129	0.0115	0.0105	0.0105	0.010833333
A-15	XC1130	0.0073	0.0072	0.0073	0.007266667

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Williams v. Remington

DATE 3-20-00
PROJECT# 241095
TLW# 0010E

GUN	SER	OVERTRAVEL	COMMENTS
A1	XC1116	0.029	
A2	XC1117	0.027	
A3	XC1118	0.027	
A4	XC1119	0.024	
A5	XC1120	0.026	
A6	XC1121	0.029	
A7	XC1122	0.028	
A8	XC1123	0.029	
A9	XC1124	0.027	
A10	XC1125	0.024	

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Worksheet size: 100000 cells

Descriptive Statistics - Sear / Trigger Engagement & Sear Lift - Phase I - TLW0010E

Variable	N	Mean	Median	TrMean	StDev	SE Mean
S/Trig E	15	0.02265	0.02240	0.02256	0.00282	0.00073
Sear Lif	15	0.00959	0.00943	0.00963	0.00106	0.00027

Variable	Minimum	Maximum	Q1	Q3
S/Trig E	0.01773	0.02870	0.02173	0.02470
Sear Lif	0.00727	0.01137	0.00870	0.01037

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