

Test Lab Work Request Form

Date Submitted: 10 March, 2000

Tracking #: TLW 0010D

Project #: 241095

Engineer: J.R.SNEDEKER

Test Objective:

TLW0010D - Measure Firing Pin Indent:

The firing pin indent will be measured for each of the sample rifles using SAAMI qualified copper crushers. The average of three trials per sample rifle will be calculated. The Average of three indents must be equal to or greater than 0.017".

Test Description:

Method:

- Using copper crushers, "burnish" both ends of the crusher slug by gently rubbing both ends on the granite base of the dial indicator stand (use outside edge of the plate.)
- Place the copper crusher in a .30-06 / .270-crusher holder, place the crusher holder on the base of the dial indicator and zero the dial indicator with the point of the indicator in the approximate center of the crusher.
- Carefully, with the gun held so that the muzzle is pointed down toward the floor, gently insert the crusher holder into the chamber, being sure that the extractor clearance cut on the crusher is properly oriented relative to the extractor position.
- While maintaining a firm hold on the bolt handle, gently, and slowly ease the bolt forward to the full forward position and then rotate down being sure that the action locks fully.
- Holding the firearm in a horizontal and level position, and pointing the firearm in a safe direction, pull the trigger until the firing pin releases.
- Carefully open the action and remove the crusher holder, being careful not to drop the copper crusher.
- Leave the crusher in the holder and place under the dial indicator.
- Move the crusher holder so that the point of the dial indicator finds the deepest portion of the firing pin indent.
- Record the dial indicator reading to the nearest .001".
- Repeat procedure two more times and record the dial indicator readings using a new copper crusher for each trial.
- Each firearm sample should have three readings that will be averaged.
- Record all three readings for the data file.

Data Required:

- Rifle serial number
- Each of the three trial indents

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- The calculated average indent by rifle.

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:** 3-16-00**Completion Date:** 3-16-00**Report Date:****Test Assigned To:** JESSE ARNOLD &**BOB LEE 16 March, 2000**

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PHASE I

PROJECT# 241095					
TLW 0010D					
FIRING PIN INDENT					
DATE - 3-16-00					
GUN#	SERIAL#	1	2	3	AVERAGE
A-1	XC1116	0.018	0.017	0.018	0.0177
A-2	XC1117	0.019	0.019	0.019	0.0190
A-3	XC1118	0.019	0.019	0.02	0.0193
A-4	XC1119	0.019	0.019	0.019	0.0190
A-5	XC1120	0.019	0.019	0.019	0.0190
A-6	XC1121	0.019	0.018	0.018	0.0183
A-7	XC1122	0.018	0.019	0.017	0.0180
A-8	XC1123	0.018	0.02	0.019	0.0190
A-9	XC1124	0.019	0.02	0.018	0.0190
A-10	XC1125	0.018	0.02	0.019	0.0190
A-11	XC1126	0.019	0.018	0.021	0.0193
A-12	XC1127	0.019	0.019	0.019	0.0190
A-13	XC1128	0.019	0.018	0.019	0.0187
A-14	XC1129	0.019	0.019	0.019	0.0190
A-15	XC1130	0.019	0.021	0.019	0.0197
TLW0010D- FIRING PIN INDENTS PERFORMED USING COPPER CRUSHERS & MEASURED WITH A DIAL INDICATOR					
MEASUREMENT PERFORMED BY JESSE ARNOLD & BOB LEE					

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Williams v. Remington

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Worksheet size: 100000 cells

Descriptive Statistics Phase I - Firing Pin Indents TLW0010D

Variable	N	Mean	Median	TrMean	StDev	SE Mean
C1	15	0.01887	0.01900	0.01889	0.00051	0.00013

Variable	Minimum	Maximum	Q1	Q3
C1	0.01770	0.01970	0.01870	0.01900

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