

Test Lab Work Request Form

Date Submitted: 3-3-03	Tracking # : TLW 1116H
Project # : 241375	Engineer: Ronkainen
Test Objective: Measure the safety ON/OFF forces with the bolt closed to see if the fluted firing pin has an appreciable affect on safety operating forces.	
Test Description: Using a Chatillon digital force gage with a V-notch tip, measure the safety operating forces required to move the safety from SAFE to FIRE (safety OFF) and from FIRE to SAFE (safety ON) with the bolt closed. Apply the force to the safety button with the force gage held as close to horizontal as possible. Take five measurements in each direction. The average of the 5 measurements will be the safety ON or OFF force, depending on the direction the force was applied.	
Resource Usage: Manpower Requirements – Facility Requirements – metrology	Test Results Required: Formal Report: Data Only: XX Requested Completion Date:
Required Materials/Parts/Equipment (include quantities): 12 EET guns Chatillon force gage with v-notch tip	
Test Parts Availability Date:	
Start Date: 4/24/03 Completion Date: 4/24/03 Report Date:	Test Assigned To: Jeff Wade & Steve Wade Assignment Date: 04/24/03

ET19957

PROJECT # 241375						
TLW 1116H						
EET FLUTED FIRING PIN						
SAFETY ON AND OFF FORCES						
DONE BY JEFF WADE & STEVE WADE						
SAFETY FROM FIRE TO SAFE FORCES						
GUN #	1	2	3	4	5	AVERAGE
A1	6.505	6.710	6.485	6.435	6.715	6.570
A2	6.615	6.815	6.245	6.090	6.180	6.389
A3	6.780	6.580	6.580	6.450	6.315	6.541
A4	6.695	6.580	7.020	6.690	6.585	6.714
A5	7.445	7.200	6.960	6.750	6.805	7.032
A6	6.520	6.360	6.080	6.020	6.000	6.196
A7	7.165	7.065	7.345	7.380	7.090	7.209
A8	5.860	6.020	5.875	5.910	5.835	5.900
A9	5.780	5.465	5.520	5.740	5.420	5.585
A10	4.925	4.750	4.670	4.650	4.735	4.746
A11	5.655	5.690	5.785	5.700	5.890	5.744
A12	6.305	6.300	6.200	6.265	6.130	6.240
SAFETY FROM SAFE TO FIRE FORCES						
GUN #	1	2	3	4	5	AVERAGE
A1	5.755	5.955	6.040	5.690	5.870	5.862
A2	6.550	6.505	6.850	6.460	6.110	6.495
A3	4.205	4.090	4.250	4.235	4.305	4.217
A4	4.570	4.200	4.400	4.225	4.265	4.332
A5	6.740	6.615	6.475	6.690	6.455	6.595
A6	5.985	5.925	5.555	5.565	5.385	5.683
A7	4.420	4.195	4.155	4.210	4.210	4.238
A8	4.795	4.745	4.630	4.740	4.790	4.740
A9	6.230	5.820	6.015	5.840	5.935	5.968
A10	6.310	6.140	6.470	6.270	6.464	6.331
A11	5.770	5.625	5.865	5.725	5.475	5.692
A12	8.160	8.110	8.480	8.375	8.270	8.279

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TW + SW

4/24/03

SAFETY ON FORCES

AVG.

A1	6.505	6.710	6.485	6.435	6.715	6.570
A2	6.615	6.815	6.245	6.090	6.180	6.389
A3	6.780	6.580	6.580	6.450	6.715	6.541
A4	6.695	6.580	7.020	6.690	6.585	6.714
A5	7.445	7.200	6.960	6.750	6.805	7.032
A6	6.520	6.360	6.080	6.020	6.000	6.196
A7	7.165	7.065	7.345	7.380	7.090	7.209
A8	5.860	6.020	5.875	5.910	5.835	5.900
A9	5.780	5.465	5.520	5.740	5.420	5.585
A10	4.925	4.750	4.670	4.650	4.735	4.746
A11	5.655	5.690	5.785	5.700	5.840	5.744
A12	6.305	6.300	6.200	6.265	6.130	6.240

SAFETY OFF FORCES

AVG.

A1	5.755	5.955	6.040	5.690	5.870	5.862
A2	6.550	6.505	6.850	6.460	6.110	6.495
A3	4.805	4.090	4.250	4.235	4.305	4.217
A4	4.570	4.200	4.400	4.325	4.265	4.332
A5	6.740	6.615	6.475	6.690	6.455	6.595
A6	5.985	5.925	5.555	5.565	5.385	5.683
A7	4.420	4.195	4.155	4.210	4.210	4.238
A8	4.795	4.745	4.630	4.740	4.790	4.740
A9	6.230	5.820	6.015	5.840	5.935	5.968
A10	6.310	6.140	6.470	6.270	6.465	6.331
A11	5.770	5.625	5.865	5.725	5.475	5.692
A12	8.160	8.110	8.480	8.375	8.270	8.279

8.160

ET19959