

REMINGTON ARMS COMPANY, INC.

INTERDEPARTMENTAL CORRESPONDENCE

Remington
-121111

PETERS
-121111

Distribution: C. B. Workman
J. S. Martin
C. E. Ritchie
R. S. Murphy

"CONFINE YOUR LETTER TO ONE SUBJECT ONLY" _____

RESEARCH TEST and MEASUREMENT REPORT - Report No. 822773

M/788 SAFETY "ON" - "OFF" FORCES EVALUATION

Prepared by: R. Howe

Date Prepared: 10-7-82

Reviewed and Cleared By:

J.H. Hennings, / R.E. Nightingale,
Foreman-Test Lab / Foreman-Measurement Lab

[Signature]
Signature

11-15-82
Date

C.E. Ritchie,
Sr. Supervisor - Testing,
Mater. & Mech. Analysis Lab

[Signature]
Signature

11/15/82
Date

TEST & MEASUREMENT LAB REPORT

REPORT NUMBER: 822773
REPORT TITLE: M/788 SAFETY "ON" - "OFF" FORCES EVALUATION
MODEL(S): 788
GAUGE OR CALIBER: 22-250
DATE: 10-7-82
WORK ORDER NO.: C-1806-000Y
PART NAME: Safety
DESIGNER/ENGINEER: R. S. Murphy

TEST TYPE:

1. PHOTO LAB
2. STRENGTH TEST - NO. OF GUNS TESTED _____
3. FUNCTION TEST - NO. OF GUNS TESTED 19
4. ACCURACY TEST - NO. OF GUNS TESTED _____
5. MEASUREMENTS - TYPE: Safe On-Off (L.Bs.)
6. ENVIRONMENTAL TEST
7. AMMUNITION TESTING & EVALUATION - TYPE: _____
8. VISUAL EVALUATION - _____ OUT OF _____ GUN SAMPLE
9. ENDURANCE - NO. OF GUNS TESTED: _____

NO. OF ROUNDS PER GUN: _____

TOTAL ROUNDS FIRED IN TEST: _____

AMMO TYPE: MAGS _____; TARGET: _____

RIM FIRE _____ CENTER FIRE _____

October 7, 1982

TO: J. H. Hennings
FROM: R. Howe
REPORT TITLE: M/788 SAFETY ON/OFF FORCES EVALUATION

ABSTRACT

Nineteen M/788 Rifles with the new Safety Lever Assembly were received from R. S. Murphy, Design, for evaluation.

All nineteen rifles were checked for safety On/Off pound forces. With Sear Lift and Engagement Measurements taken of five of the samples picked at random. Rifles originated from M/788 production area.

SCOPE OF TEST

To determine if safety On/Off forces fall in an acceptable range as received from production.

TEST RESULTS

Of nineteen samples tested nine were above the present Remington standards (for previous safety arm assembly) to move to the "On" Safe position. "See Appendix A".

REPORT TEXT

Five of the nineteen samples tested, were difficult to put in the "On" Safe Mode resulting in forces of 8.1 to 10.6 lbs.

These readings being arrived at as an average of three (3) readings.

NOTE: There are no present Remington Standards written for Safe On/Off forces for these new safety assemblies.

Remington Standards for the "Old Style" production M/788 Safety Lever was Safe On/Off - 4 to 8 lbs.

TEST PROCEDUREA. Measurements

1. The following measurements were taken on all nineteen samples:
Safe On/Off pound forces
2. The following measurements were taken on five of the nineteen samples:
Sear Lift }
Sear Engagement } .000 inch

B. Test Conditions

All nineteen guns with the "New Style" safety assembly were checked for Safe On/Off forces with Chatillon Spring Scale Model IN-10.

Then the stocks were removed from five samples (picked at random) and Sear Lift and Engagement were checked in thousandths of one inch on Visual Comparator.

Five marked by * in Appendix "A".

" APPENDIX " A "
CALCULATIONS

M1788 SAFETY "ON" - "OFF" FORCES EVALUATION

OCT 7, 1982

R. HOWE

	M-788 SERIAL #	SAFETY (LBS.)		SEAR LIFT	SEAR ENGAGEMENT	5	6
		ON	OFF				
1							
2	B6145233	73	47				
3							
4	* B6145383	86	55	021	018		
5							
6	B6145228	72	27				
7							
8	* B6145249	77	55	0145	017		
9							
10	B6145372	81	83				
11							
12	* B6145404	106	45	018	019		
13							
14	B6145378	91	48				
15							
16	* B6145235	96	55	0175	018		
17							
18	B6145304	85	40				
19							
20	B6145354	75	45				
21							
22	* B6145230	85	42	0155	018		
23							
24	B6145154	70	45				
25							
26	B6145237	88	52				
27							
28	B6145353	74	45				
29							
30	B6145272	72	49				
31							
32	B6145239	66	45				
33							
34	B6145271	79	40				
35							
36	B6145284	73	45				
37							
38	B6145218	90	59				
39							
40							

PREFER REM STANDARDS FOR
SEAR LIFT + ENGAGEMENT ARE
→ LIFT 1009 MIN "NO" MAX
→ ENG "NO STANDARD"