

REMINGTON ARMS COMPANY, INC.

INTER-DEPARTMENTAL CORRESPONDENCE



xc: J. P. Linde
Lab File

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"CONFINE YOUR LETTER TO ONE SUBJECT ONLY" _____

Ilion, New York
August 25, 1975

TO: W. E. LEEK ←
FROM: A. A. HUGICK
DATE: August 23, 1975
SUBJECT: M/788 SAFETY EVALUATION - REPORT #7
WORK ORDER: E 0275

INTRODUCTION:

Two experimental M/788 fire controls with new dimension cams (Vendor parts) and new dimension safety detent dimensions were assembled into two (2) lab dry cycle test rifles.

TEST OBJECTIVE:

Dry cycle test the two (2) experimental Fire control assemblies for endurance and function.

TEST RESULTS & OBSERVATIONS

- 1A. M/788 - 22/250 Cal. - A6047744 - Gun No. 25 - Second fire Control
- 1B. M/788 - 22/250 Cal. - A6047781 - Gun No. 31 - Second fire control

- 1A. Test Activity - Original test fire control removed (#25)
- Experiment safety with "New" safety detent dimension installed.
- Solid Sear Pin
- Safety retaining screw - Loctite
- Cam made to new dimension (Prod).
- 50,000 Safe ON/Safe OFF cycles.
- 10,000 Cock and Dry fire cycles.
- WD 40 lubrication.

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TEST RESULTS & OBSERVATIONS - Contd.

- 1A. Test Results
 - Safe ON sear lift decreased from .0084 to .0034 in this test.
 - Safe ON force remained fairly uniform at approximately 6.0 lbs.
 - Safe OFF force remained fairly uniform around 2-3 lbs.
 - No visible wear was noted in fire control parts and parts appeared to be in good condition

- 1B. Test Activity
 - Original test fire control removed (#31)
 - Experimental Safety with "New" safety detent dimension installed
 - Solid sear pin
 - Loctite on Safety retaining screw
 - Cam made to new dimension (Prod.)
 - 50,000 Safe ON/Safe OFF cycles
 - 10,000 Cock & Dry Fire cycles
 - WD 40 Lubrication
 - Replaced safety thumb piece section failed by dropping gun.

- 1B. Test Results
 - Safety was replaced due to dropping.
 - Sear lift remained fairly uniform at approx. .008 - .009 inches.
 - Safe ON force varied between 6.0 and 8.0 lbs.
 - Safe OFF force varied between 2.0 and 4.0 lbs
 - No visible wear was noted in fire control parts.
 - Parts appearance was considered good.
 - Firing pin gross pin failed and was lodged in fire control.

AAH:bd
 Measurement/Test Lab
 Ilion Research Division