

REMINGTON ARMS COMPANY, INC.

INTER-DEPARTMENTAL CORRESPONDENCE



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Lab file

chron. file
"CONFINE YOUR LETTER TO ONE SUBJECT ONLY" _____Ilion, New York
February 10, 1978

TO: C. B. WORKMAN

FROM: A. A. HUGICK *A. A. H.
2-13-78*

DATE: DECEMBER 20, 1977

SUBJECT: PILOT - M/600 RIFLES ADUSING M/700 TRIGGER HOUSING

WORK ORDER: 80-64

INTRODUCTION:

Twelve Mohawk M/600 rifles with M/700 trigger housings were delivered to the Measurement/Test Lab for pilot evaluation by production. Three rifles were Australian "Export" samples with jam screws at the trigger adjustment screws and nine were domestic samples with Duco cement sealant at the trigger adjustment screws.

TEST OBJECTIVE:

Review pilot sample M/600 rifles adusing M/700 trigger housing.

TEST RESULTS / OBSERVATIONS:

1. The rear stock reinforcement screw interferes with the forward portion of the trigger housing. One thousand rounds of shooting bent gun A6520153 stock reinforcement screw forward approximately .050⁺ inch and damaged the trigger adjustment screw.
2. Gun A653136 sear lift measurement was below the design specifications. (Min. - .007 Max. - .018 inches)

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TEST RESULTS / OBSERVATIONS:

3. Safe On & Off dry cycle testing indicated sear lift variations. This wide variation of lift appears to be the results of sear lift measuring technique via. reflected optical comparator.
4. Rifle A6520135 safety arm failed in safe On & Off dry cycle testing. Inspection of the fracture indicated a possible inclusion per 10x magnification.
5. Bright hand filed clearance for safety arm operation - assembly was noted on the rear of the right side of the trigger housing.
6. Rifle drop test results compare with earlier powder metal sear evaluation results.

TEST CONCLUSIONS:

The test results were reviewed with design and the recommendation made that the pilot test be accepted.

FUTURE WORK:

None planned at this time.

AAHUGICK:bd
Measurement/Test Lab
Ilion Research Division
Attached