REMINGTON ARMS COMPANY, INC.

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RESEARCH TEST AND MEASUREMENT REPORT - Report No. 842560

M/700 NEW EXTRACTOR AND BOLT SCHROUD GEOMETRY EVALUATION
TEST RESULTS ONLY

Prepared by: R.W. HOWE

Date Prepared: 11/15/R4

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REMINGTON ARMS CO., INC. Firearms Research Division

Report No. 842560 Page 1

November 15, 1984

TO:

R. NIGHTINGALE

FROM:

R.W. HOWE

REPORT TITLE:

M/700 NEW EXTRACTOR AND BOLT SCHROUD

GEOMETRY EVALUATION

TEST RESULTS ONLY

REASON FOR TEST

To determine the effect on the proposed new M/700 extractor and bolt schroud geometry when seating five 220 gr. bullets ahead of a round loaded with 52.4 gr. of #4198 powder and a 220 gr. bullet and firing.

TEST PROCEDURE

The M/700, 30-06 cal., Ser. #B6471579, supplied was taken to the Test Lab, dry-cycle room where five 220 gr. bullets were forced into the chamber end of the barrel with a steel rod and hammer to a depth just far enough to clear a chambered round loaded with 52.4 gr. of #4198 powder and a sixth 220 gr. bullet, for a total of 1,320 grains of lead.

It was then taken to the Measurements Lab firing range and placed in the "Iron Lung" device to be fired by lanyard from a safe position outside the range. After firing the gun was taken to the Model Shop for disassembly and visual inspection. Then it was taken to the Photo Lab for pictures of the components.

Pictures appear in Appendix "A" of this report.

M/700 New Extractor and Bolt Schroud Geometry Evaluation Report No. 842560 Page 2

TEST RESULTS

After firing the test rifle showed no apparent physical damage although the bolt could not be opened without forcing. Upon disassembly it was discovered there was a small crack in the bolt schroud at the extractor hole location and also a very slight bulge in the Barrel at the location of the chamber. The cartridge was difficult to remove and was very distorted at the rear although the extractor and ejector were still functional.

See Appendix "A" for pictures.

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APPENDTY "A"

Report No.	842560
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research test & measurement Lab work request

Developmental Design Acceptance Pre-Pilot Pilot Production Acceptance FIREARM STAT'S. MODEL: M-7cc CAL or GAGE: -30-06	Safety Related Competitive Evalue New Design Design Change Plant Assistance REPORT REQ'D. FORMAL	Litigation Litigation Warehouse Audit Cost Reduction Stake Other DATE REQUESTED: 7 / / - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 - 5 - 6 / 7 / 7 -
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GUNS REQUIRED: To Be Supplied M/700 - 30-06 SERT	F B6471579	
NOTE: NO firearms or parts will be tested in the Labs unless they are accompanied by a Work Request, and both are delivered to the Labs by the designer or engineer. All Work Requests are to be filled out in detail. No Exceptions.		TEST COMPLETED BY: () SOUTH