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RESEARCH TE	ST AND MEASUREM	ENT REPORT - Report	: No	
M/700 N	EW EXTRACTOR AN	D BOLT SCHROUD GEOM	ETRY EVALUATION	
	TEST R	ESULTS ONLY		
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		Prepared by:	R.W. HOWE	
		Date Prepared:	11/15/84	•
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Proofread a	nd Cleared by:			•-
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J.R. Snedeker, Research Supervisor Testing, Measurement & Mech. Analysis Lab

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

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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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Report No.	842560	

RESEARCH TEST & MEASUREMENT LAB WORK REQUEST

Developmental	ARE	A OF TESTING
	Safety Related	Litigation
Design Acceptance	Competitive Evalu	ation Warehouse Audit
Pre-Pilot	New Design	Cost Reduction
Pliet	Design Change	Stake
Production Acceptance	Plant Assistance	Other
FIREARM STATS. MODEL: M. 700 CAL or GAGE: .30.06 BARREL TYPE: PROOFED: YESNO	FORMAL TEST RESULTS ONLY TEST TYPE	DATE REQUESTED:
Function Test Environm	tion Test Dny Gycle T nental Test Measuremen v Complaint Endurance `	Other
EXPLAIN IN DETAIL THE REASON FOR TO DETERMINE THE PLEW EXTRACTOR - SENT YBUSIETS IN BAL- I LOAD EL LOMB. ASZ. 9 9 9. Se mi sigo tet. Pl.	Freet Or Insi The Change In	Bout Sonkers Gernothy
GUNS REQUIRED:		•