

REMINGTON ARMS COMPANY, INC.

INTER-DEPARTMENTAL CORRESPONDENCE

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RESEARCH TEST AND MEASUREMENT REPORT

REPORT# 881281

MAY 24, 1988

MODEL 700 (NO V-BLOCK RYNITE STOCK INSERT) DESIGN VERIFICATION

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ABSTRACT:

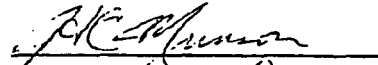
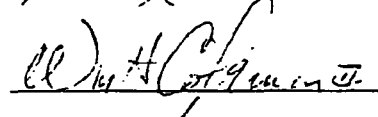
The Test and Measurement Laboratory finds the Design Verification of the Model 700, Rynite stock insert without the V-block, to be acceptable. The testing consisted of 100 yard accuracy, comparing the results of the actions shot in the "No V-block" experimental Rynite stocks to the results of the same actions shot previously in test 880611.

Five rifles were used for the Design Verification test. The accuracy was shot by J.E. Selan in the Research and Development 100 yard range. All the rifles tested were within the Remington 100 yard accuracy specifications.

Prepared by: F.L. Supry
Date Prepared: May 24, 1987

proofread and cleared by:

H.C. MUNSON, Quality Resource

W.H. COLEMAN, II
New Products Research Lab Director

RP# 881281

WO# 480257-001800

To: H.C. Munson
From: F.L. Supry

INTRODUCTION:

A request was received from L.B. Bosquet on May 07, 1988 to conduct a design verification test on the Model 700 30-06 caliber Rifles assembled in Rynite stocks with experimental "No V-block" barrel alignment inserts. The experimental barrel alignment inserts were attached to the stocks by Remington personnel. If the barrel alignment inserts are successful, Choate will incorporate them in the mold for the Rynite stocks instead of the inserts from test 880611.

SCOPE OF TEST:

To determine if the Model 700 rifles assembled in the experimental stocks would meet the Remington 100 yard accuracy specifications. And, to make a direct comparison of those accuracy results to the results of previously shooting the same actions in test 880611.

TEST RESULTS:

All the rifles tested were within Remington specifications for 100 yard accuracy. The following average group sizes were established:

STOCK TYPE	REMINGTON SPECIFICATIONS	ACCURACY RESULTS
RYNITE NO V-BLOCK INSERT	3.5 inches	1.662 inches
RYNITE W/INSERTS (880611)	3.5 inches	1.941 inches
WOOD (880611)	3.5 inches	1.949 inches

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REPORT TEXT:

Five rifles were shot, with three groups shot for each rifle consisting of five shots per group.

Remington 180 grain bronze point ammunition (R30066 code H20 MC2825) was used throughout the test.

Individual accuracy results are listed in the appendix of this report.

TEST PROCEDURE:

The accuracy was shot by J.E. Selan in the R&D 100 yard range, located in building 52-1.

Standard long action Leupold bases and Leupold rings were used, in conjunction with a 20X All-American scope.

A total of three, five shot groups, were shot for each rifle. The rifles were cooled and cleaned between each group, and one fouling shot fired before the next group was shot.

The targets were analyzed for group size, using the HP 9000 computer and digitizing tablet.

APPENDIX

MODEL 700 (NO V-BLOCK RYNITE STOCK INSERT) DESIGN VERIFICATION

SERIAL NUMBER	TYPE OF STOCK	GROUP 1 (in.)	GROUP 2 (in.)	GROUP 3 (in.)	AVERAGE (in.)
B6889601	NO V	1.198	1.636	1.478	1.437
	R	1.939	2.223	3.141	2.438
	W	2.356	0.898	1.625	1.626
B6887819	NO V	2.253	2.563	2.270	2.362
	R	0.916	1.290	2.536	1.581
	W	1.951	1.606	4.528	2.695
B6889880	NO V	1.114	0.985	0.955	1.018
	R	2.150	1.516	1.924	1.763
	W	2.962	2.004	2.194	2.387
B6889538	NO V	0.986	2.144	1.551	1.563
	R	1.848	1.992	1.567	1.802
	W	1.268	1.850	1.242	1.453
C6204413	NO V	2.645	1.542	1.613	1.933
	R	1.639	1.556	0.885	1.360
	W	1.712	1.939	1.727	1.793
OVERALL AVERAGE:					
	NO V	-----	-----	-----	1.663
	R	-----	-----	-----	1.941
	W	-----	-----	-----	1.949