

REMINGTON ARMS COMPANY, INC.

INTER-DEPARTMENTAL CORRESPONDENCE

Remington



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RESEARCH TEST AND MEASUREMENT REPORT
REPORT# 880611
MARCH 15, 1988

MODEL 700 (RYNITE STOCK INSERT) DESIGN VERIFICATION

RP# 880611

WO# 480257-001800

MODEL 700 (RYNITE STOCK INSERT) DESIGN VERIFICATION

ABSTRACT:

The Test and Measurement Laboratory finds the Design Verification of the Model 700, Rynite stock insert, to be acceptable. The testing consisted of 100 yard accuracy, comparing the results of the actions shot in the experimental Rynite stocks to the results of the same actions shot in a standard wood stock.

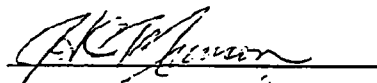
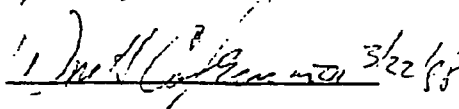
Ten rifles were used for the Design Verification test. The accuracy was shot by D.R. Thomas and J.E. Selan. All the rifles tested were within Remington 100 yard accuracy specifications.

Prepared by: F.L. Supry
Date Prepared: March 15, 1987

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H.C. MUNSON, Quality Resource

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New Products Research Lab Director

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

INTRODUCTION:

A request was received from B.L. Bosquet on March 01, 1988 to conduct a design verification test on the Model 700 30-06 caliber Rifles assembled in Rynite stocks with experimental 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.

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 shooting the same actions assembled in a standard wood stock.

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 W/INSERTS	3.5 inches	1.941 inches
WOOD	3.5 inches	1.949 inches

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REPORT TEXT:

Ten 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 D.R. Thomas and 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. After three groups were shot with the rifle in the Rynite stock, the action was removed and reassembled in the wood stock and the accuracy procedure repeated.

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

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APPENDIX

MODEL 700 (RYNITE STOCK INSERT) DESIGN VERIFICATION

SERIAL NUMBER	TYPE OF STOCK	GROUP 1 (in.)	GROUP 2 (in.)	GROUP 3 (in.)	AVERAGE (in.)
B6889568	R	2.597	1.664	2.003	2.088
	W	2.485	1.346	1.172	1.668
B6889854	R	2.434	1.580	1.458	1.824
	W	2.135	2.902	2.280	2.439
B6889601	R	1.939	2.223	3.141	2.438
	W	2.356	0.898	1.625	1.626
B6887819	R	0.916	1.290	2.536	1.581
	W	1.951	1.606	4.528	2.695
B6889548	R	2.265	2.121	2.108	2.165
	W	1.625	1.473	1.215	1.438
B6889880	R	2.150	1.516	1.924	1.763
	W	2.962	2.004	2.194	2.387
B6889562	R	2.193	2.371	1.929	2.164
	W	1.619	2.212	2.104	1.978
B6889478	R	1.686	3.156	1.839	2.227
	W	2.068	1.590	2.369	2.009
B6889538	R	1.848	1.992	1.567	1.802
	W	1.268	1.850	1.242	1.453
C6204413	R	1.639	1.556	0.885	1.360
	W	1.712	1.939	1.727	1.793
OVERAGE AVERAGE	R	-----	-----	-----	1.941
	W	-----	-----	-----	1.949