

REMINGTON ARMS COMPANY, INC.

INTER-DEPARTMENTAL CORRESPONDENCE



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"CONFINE YOUR LETTER TO ONE SUBJECT ONLY" _____

Ilion, New York
November 26, 1973

TO: C. B. WORKMAN *CBW*
FROM: A. A. HUGICK
DATE: NOVEMBER 21, 1973
SUBJECT: M/700 - 270 CAL. ADL
DESIGN CONFORMATION TESTING
TEST PERIOD: NOV. 15, 1973 - NOV. 21, 1973
WORK ORDER: 88809

INTRODUCTION:

Eight (8) M/700 - 270 Caliber ADL rifles were selected from the pilot production sample lot for design conformation testing by Research. The major improvements are the Bolt Anti-Bind System and Cast Magazine Follower.

TEST OBJECTIVE:

Conduct design conformation testing of the improved ADL M/700 rifles.

TEST OBSERVATIONS:

- (1) Test gun #4 has a magazine box capacity of only three (3) rounds.
- (2) Test gun #2 magazine is critical for placement of the rounds in the box. If not placed back and loaded with care the bolt will not close over four (4) in the box.
- (3) Bolt stroke operation is satisfactory.
- (4) The press checkering quality does not compare with the cut checkering quality of the BDL grade rifles.

RECOMMENDATIONS:

The M/700 ADL grade rifle magazine capacity be reviewed based on finding of this test.

The M/700 ADL be considered satisfactory.

AAH:bd AA*
Measurement/Test Lab
Illion Research Division
Attach.

TEST FUNCTION	ONE	TWO	THREE	FOUR	FIVE	SIX	SEVEN	EIGHT	SPECS.
SERIAL NUMBER	6688212	6686683	6686664	6686640	6688486	6688563	6688844	6687402	—
HEADSPACE - MINUT (AS REC'D)	1.003 IN	1.005	1.002	1.005	1.002	1.001	1.001	1.003	.009 1.005
TRIGGER Pull	5.50 LBS	5.75	4.50	4.50	4.25	5.00	5.00	5.00	3.00 5.00
TRIGGER Pin INCHES	.0235	.0230	.0225	.0240	.0240	.0225	.0225	.0235	.0180 1.0260
SWITCH L.A.-OR.	7LB-403	7-5	7-0	7-3	7-4	6-15	7-3	7.6	7.5 AVE
SW LENGTH - IN	42 1/2 IN	42 1/2	42 1/2	42 1/2	42 1/2	42 1/2	42 1/2	42 1/2	
HOSE, P.O.I., AS REC'D 100 YD.	—	0.52	—	6.0 L	—	2.0 R	—	4.0 L	
VERT. P.O.I., AS REC'D	—	6.0 L	—	12.0 L	—	7.0 L	—	9.5 L	
4022. P.O.I. MAX.	—	18.0 H	—	18.0 H	—	19.0 H	—	19.0 H	
4022. P.O.I. MIN	—	10.0 L	—	12.0 L	—	7.0 L	—	9.5 L	
GROUP SIZE 3X35 NOT (80 PIP)	—	1.66 IN	—	1.78	—	1.32	—	1.66	3.5 max.
4022. GROUP SIZE	—	1.52	—	1.30	—	0.98	—	1.17	
4022. GROUP SIZE	—	1.00	—	1.38	—	1.10	—	1.17	

TEST FUNCTION	ONE	TWO	THREE	FOUR	FIVE	SIX	SEVEN	EIGHT	SPECS.
STOCK DIMEN.									
PITCH	3	3 1/8	3 1/8	3 1/8					2 7/8
DULL	13 5/16	13 3/16	13 9/16	13 3/16					13 9/16
DROP AT HEEL	1 5/16	1 5/16	1 9/16	1 7/16					1 5/16
DROP AT COMB.	10 1/16	10 1/16	12 1/16	10 1/16					11 1/16
TRIGGER-TO-GRIP	3 1/4	3 1/4	3 1/4	3 1/4					3 3/8
TRIGGER-TO-COMB.	4 4/16	4 1/16	4 3/16	4 3/16					—
BACK TEST FUNCTION - RPS.	70	70	70	70	70	70	70	70	—
VAL FUNCTIONS.	0	0	0	0	0	0	0	0	—
MAGAZINE CAPACITY	4	4	4	3	4	4	4	4	—
TOTAL ENOUR.	—	—	250	—	250	—	250	—	—
10000 MAL FUNS.	—	—	0	—	0	—	0	—	—