

Efficiency Details

Model 721
Date 8/4/47

30'06 PL

No.	Rounds Fired	Malfunctions												Remarks			
		Firing	Unlocking	Primary Extraction	Secondary Extraction	Ejection	Cocking	Feeding	Loading	Locking	Breakages	Replacements	Gun Failures		Adjustments		
																	Barrel Cleaned
																	Air Gauge - Base Dimensions .3096 mm
																	Trigger Pull Test #4
																	5 # 9.03 mm
																	5 12
																	5 14
																	5 15 mm
																	5 13
																	5 14.6 mm avg
																	10. 9
																	Fixing Pin Indent Test .019 mm
																	# Protrusion Test #48 .0195
																	Protrusion OK .020 mm
																	.0198
																	.0195
																	5 178 .0196 mm
																	01956
																	Bolt Opening Test #10
																	10
																	11 mm
																	8 mm
																	9
																	10 1/2
																	5 148 5
																	avg - 9.9

3)

Model _____
Date _____

R.T. No.	Rounds Fired	Malfunctions										Replacements	Gun Failures	Adjustments	Remarks	
		Firing	Unlocking	Primary Extraction	Secondary Extraction	Ejection	Cocking	Feeding	Loading	Locking	Breakages					
																180 500 mch 6340
																5730 R137 H
13	575-590	OK														
	590-610	OK														
14	610-630	OK														notes
	630-650	OK														
	650-670	OK														
	670-690	OK														
16	690-710	OK														
	710-730	OK														
	730-750	OK														
	750-770	OK														
	770-790	OK														
	790-810	OK														
	810-830	OK														
	830-850	OK														
	850-870	OK														
	870-890	OK														
	890-910	OK														
	910-930	OK														
	930-950	OK														
	950-970	OK														
	970-990	OK														
	990-1050	OK														990-1050 OK

51

Model

721

Date

8/7/47

No.	Rounds Fired	Malfunctions										Remarks		
		Firing	Unlocking	Primary Extraction	Secondary Extraction	Ejection	Cocking	Feeding	Loading	Locking	Breakages		Replacements	Gun Failures
18	10651-	OK												
	1070													
19	1071-													
	1072													
20	1073	OK												
	1074													
	1075													
	1076													
	1077													
	1078													
	1079													
	1080													
	1081													
	1082													
	1083													
	1084													
	1085													
	1086													
	1087													
	1088													
	1089													
	1090													
	1091													
	1092													
	1093													
	1094													
	1095													
	1096													
	1097													
	1098													
	1099													
	1100													

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER

KINZER V. REMINGTON

R2501105

6)

Model 721
Date 8/8/47

[illegible]

Model 721
Date 8/11/47

[illegible]

Model

Date

2/14/47

T. No.	Rounds Fired	Malfunctions												Remarks	
		Firing	Unlocking	Primary Extraction	Secondary Extraction	Ejection	Cocking	Feeding	Loading	Locking	Breakages	Replacements	Gun Failures	Adjustments	
3061-3062	3062														3000 rounds
3063-3082	3082														3082
(BOLT OVER INDOOR EDGE)															
Clean & Lubricate															
Air Gauge															
Tension Pull Test #6															
5 14															
5 12															
5 10															
6 8															
6 4															
5# 1443															
Test #8															
.017"															
.0163"															
.0165"															
.0163"															
.017"															
.0178" Avg															
8															
9															
10 1/2															
10 1/2 Avg. 9.3#															
5 1465															
Bolt Opening Test #10															
Head Space Test #3															
2 Takes .154"															
Does not take .155"															

Model 7.21
 Date 8/14/47

T. No.	Rounds Fired	Malfunctions											Remarks
		Firing	Unlocking	Primary Extraction	Secondary Extraction	Ejection	Cocking	Feeding	Loading	Locking	Breakages	Replacements	
33	308 ¹ -	OK											
	312 ¹ -	OK											
	316 ¹ -	OK											
	316 ¹ -	OK											
	320 ¹ -	OK											
	324 ¹ -	OK											
	328 ¹ -	OK											
	332 ¹ -	OK											
	336 ¹ -	OK											
	340 ¹ -	OK											
	344 ¹ -	OK											
	348 ¹ -	OK											
	352 ¹ -	OK											
	356 ¹ -	OK											180 gr. bronze pt
	360 ¹ -	OK											
	364 ¹ -	OK											
	368 ¹ -	OK											
	372 ¹ -	OK											
	376 ¹ -	OK											
	380 ¹ -	OK											
	384 ¹ -	OK											
	388 ¹ -	OK											
	392 ¹ -	OK											
	396 ¹ -	OK											
34	398 ¹ -	OK											
	4000	OK											Final Test

Model 1-1

Date _____

T. No.	Rounds Fired	Malfunctions											Remarks
		Firing	Unlocking	Primary Extraction	Secondary Extraction	Ejection	Cocking	Feeding	Loading	Locking	Breakages	Replacements	
35	4001- 4060	OK											
36	4061- 4062												
37	Head Space Test #3												
38	4063- 4082	OK											Excess Lub
39	4083- 4142												① It was found that the diam. of the bolt was .010" under min. from muzzle - Muzzle - .3098-4" = .310-5" from muzzle - .5097" muzzle MAX. .3104-3 1/2" from muzzle
	Air Gun												
	Trigger Pull Test #6												6 - 0 6 - 1 6 - 4 avg #2, 2, 3 6 - 0 6 - 6
	Firing Pin Test #7												.021
	Extraction Test #8												.020
													.020
													.021
	Back Opening Test #10												.020
	Aug 9#												avg 10202
	Head Space												with intake .155 to H5. .154

Model 721
 Date 8/20

T. No.	Rounds Fired	Malfunctions											Remarks
		Firing	Unlocking	Primary Extraction	Secondary Extraction	Ejection	Cocking	Feeding	Loading	Locking	Breakages	Replacements	
40	4143- 4180	OK											
	4181- 4220	OK											
	4221- 4260	OK											
	4301- 4340	OK											
	4381- 4420	OK											
	4421- 4460	OK											
	4461- 4500	OK											
	4501- 4540	OK											
	4541- 4580	OK					(1)						Bolt over - side
	4581- 4620	OK											
	4621- 4660	OK											
	4661- 4700	OK											
	4701- 4740	OK											
	4741- 4780	OK											
	4781- 4820	OK											
	4821- 4860	OK											
	4861- 4900	OK											
	4901- 4940	OK											
	4941- 4980	OK											
	4981- 5000	OK											
41	5001-5060												

Model 7K1
 Date 8/21

T. No.	Rounds Fired	Malfunctions											Remarks
		Firing	Unlocking	Primary Extraction	Secondary Extraction	Ejection	Cocking	Feeding	Loading	Locking	Breakages	Replacements	
													5000 Rm
													Had Head .156
													Firing pin Impact — .019
													Protrusion Test #8 .020
													Protrusion # .021
													avg .020" .020
													Protrusion Test #6 .020
													7-14
													#200 6-7
													6-13
													7-4
													7-9
													Air Gauge —
													.3098 - MIN
													.30985 - Half Wt
													.3098 - full Lgt
													.3104 - MAX
													.3098 - MIN
													Ball Bearing Test #10
													9
													9
													8
													10
													8
													5144
													avg 8.8 #

8/25

between 2 & 3⁴ hrs.

DATE	TIME	REMARKS
Aug 10	8 1/2	at 23 30' clock
Aug 10	at 32"	30' clock
Aug 10	at 35"	50' clock

Stack broke

Model 7K1Date 7/27

6000 RNDs.

Zoller

No.	Rounds Fired	Malfunctions											Remarks				
		Firing	Unlocking	Primary	Extraction	Secondary	Extraction	Ejection	Cocking	Feeding	Loading	Locking		Breakages	Replacements	Gun Failures	Adjustments
																	Firing pin spring - 6" EJECTOR " - 1.78 SEAR " - .48 BOLT RELEASE SPR. - .311
	Air Gauge																MUZZLE-3012 & 3098 WAY IN-3094 MIN MAX-3104
	Trigger Pull																7-6 7-9 7-10 6-5 7-10 7-4.8
	Giving Pin Incident & Penetration Test #6																.020
																	.0198" .020
	Penetration OK																.020
																	51090 .0195
																	498 .0195
	Bolt opening																8
																	8
																	8
																	8
																	8
																	8
	Head space																TAKES -.153" with mark .156" (over)

DAILY PROGRESS REPORT

Date 9/16/47

SUBJECT: TESTING M/721 REINFORCED STOCKS

One M/721 Stock (previously split in web section) was reinforced by a Fore End Screwed Pin, (Part 74 - M/30 Gun) and subjected to 500 rounds of firing. Results of the test show that the reinforcement prevented further splitting of the stock from the web section.

It should be understood that the results of this test are based on the firing of one gun.

W. E. Leek
Test Engineer

WEL:MC