

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	
													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 - 9.7

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R.T. No.	Rounds Fired	Malfunctions												Remarks	
		Firing	Unlocking	Primary Extraction	Secondary Extraction	Ejection	Cocking	Feeding	Loading	Locking	Breakages	Replacements	Gun Failures	Adjustments	
Safety Mechanism Function Test #23 OK															
Safety Lock Mechanism Test #25 OK															
Length of Springs															
															Sear Spring .485"
															Bolt Release " .314"
															Ejector Spring 1.2"
															Trigger Pin Spring 6.24"
1. Take down Inspection Test #11															
2. Head Space Test															
															.153 " 20
															.154 " 2290
3. Previously performed															
4. Safety Operation Test #31															
5. Jam Off Test #21															
6. Cleaning & Oiling - Type III															
7. Previously performed															
8. - previously performed															
9. - " "															
10. previously performed															
11. Product Inspection															
12. See Accuracy data															

Model _____

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R.T. No.	Rounds Fired	Malfunctions											Remarks
		Pirng	Unlocking	Primary Extraction	Secondary Extraction	Ejection	Cocking	Feeding	Loading	Locking	Breakages	Replacements	
													180 500 mch 6340
													5730 R137 H
13	571-590	OK											
	591-610	OK											
14	611-630	OK											notes
	631-650	OK											
	651-670	OK											
	671-690	OK											
16	691-710	OK											
	711-730	OK											
	731-750	OK											
	751-770	OK											
	771-790	OK											
	791-810	OK											
	811-830	OK											
	831-850	OK											
	851-870	OK											
	871-890	OK											
	891-910	OK											
	911-930	OK											
	931-950	OK											
	951-970	OK											
	971-990	OK											
	991-1050	OK											

1,000

Date _____

3104 ¹¹ ~~mm~~ $3\frac{1}{2}$ ~~mm~~ ~~mm~~

~~Air Gauge~~

Treggio Pull #6

3096"	-	End of muzzle
310	-	4" from muzzle
3096'	-	8" from muzzle

6[#] - 90
6-120

6-6
6-1
7-3

Finishing Pen Indent
Protrusion Test
Protrusion or
Bolt Opening Test #

✓ .0189" - .019" - .019"
 .020" - .0198"

 Avg. .0193"

$1\frac{1}{2}$
 $9\frac{1}{2}$
 $8\frac{1}{2}$
 10
 11
 10 # ~~avg~~

Head Space

.153" Go
.154" No Go

Model

721

Date

8/7/47

S.T. No.	Rounds Fired	Malfunctions											Remarks
		Firing	Unlocking	Primary Extraction	Secondary Extraction	Ejection	Cocking	Feeding	Loading	Locking	Breakages	Replacements	
18	1051- 1070	OK											
19	1071- 1072												
20	1073- 1090 1091- 1130	OK											
	1131- 1170	OK											
	1171- 1210	OK											
	1211- 1250	OK											
	1251- 1290	OK											
	1291- 1330	OK											
	1331- 1370	OK											
	1371- 1410	OK											
	1411- 1450	OK											
	1451- 1490	OK											
	1491- 1530	OK											
	1531- 1570	OK											
	1571- 1610	OK											
	1611- 1650	OK											
	1651- 1690	OK											
	1691- 1730	OK											
	1731- 1770	OK											

Model 221

Date 8/8/47

R.T. No.	Rounds Fired	Malfunctions											Remarks	
		Firing	Unlocking	Primary Extraction	Secondary Extraction	Ejection	Cocking	Feeding	Loading	Locking	Breakages	Replacements		Gun Failures
	711-1910	OK												
	811-1850	OK												
	831-1840	OK												
	1541-1920	OK												
21	1921-1960	OK												
21	1961-2000	OK												
22	2001-2060	OK												
8/11/47														
Air gauge - Bare Arm.											Inside muzzle 310"			
											4" .3098"			
											8" .309"			
											Max. 3104" 3 1/2"			
											from muzzle			
Clear														
Head space Test #3											.153 OK .154 No Go			
											(1537)			
Trigger Pull Test #6											7# -			
											7# 6.3			
											6# 6.0			
											6# 10.0			
											6# 4.0			
											6# 11.6			

Model

Date _____

721

8/11/97 (cont)

[illegible]

Model 721
Date 8/11/47

R.T. No.	Rounds Fired	Malfunctions												
		Firing	Unlocking	Primary Extraction	Secondary Extraction	Ejection	Cocking	Feeding	Loading	Locking	Breakages	Replacements	Gun Failures	Adjustments
26	3													
27	3													
	20													
	22													
28														
	2207-													
	2300													
	2540	X												
	2541-													
	2380													
	2541-													
	2420	X												
	2541-													
	2540	X												
	2541-													
	2540	X												
	2541-													
	2620	X												
	2660	X												
	2700	X												
	2740	X												
	2780	X												
	2820	X												
	2860	X												
	2900	X												
	2940	X												
	2980	X												
	3000	X												
	3060	X												

See item B Appendix

Model _____

Date 2/14/47

T. No.	Rounds Fired	Malfunctions										Remarks
		Firing	Unlocking	Primary Extraction	Secondary Extraction	Ejection	Cocking	Feeding	Loading	Locking	Breakages	
3061- 3062												3000 rounds
3063- 3082							(2)					FIRED 1000 (BOLT OVER 1000) EDGE
Clean & Lubricate Air Gauge												.30975" MAX. 3100 4" .3099" $3\frac{1}{2}"$ from muzzle
Tripin Pull Test #6												9 muzzle .3098" 5 14 5 12 5 10 6 8 6 4 5# 1443
Test #8												.017" .0163" .0165" .0163" .017" Avg. 9.3#
Bolt Opening Test #10												.017" .0163" .0165" .0163" .017" Avg. 9.3#
Head Space Test #3												2 Takes .154" Does not take .155"

Model

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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											
	398 ¹ -	OK											
	400 ¹ -	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
													6 - 0
													6 - 6
	Firing Pin Test #7												.021
	Extraction Test #8												.020
													.020
													.021
	Back Opening Test #10												.020
	Avg 9#												avg 10202
	Head Space												avg 10202
													with intake .155
													to H5. 154

Model 721Date 8/20

T. No.	Rounds Fired	Malfunctions											Remarks
		Firing	Unloading	Primary Extraction	Secondary Extraction	Ejection	Cocking	Feeding	Loading	Locking	Breakages	Replacements	
40	4143-	OK											
	4180	OK											
	4181-												
	4220	OK											
	4221-												
	4260	OK											
	4300	OK											
	4301-												
	4340	OK											
	4380	OK											
	4381-												
	4420	OK											
	4421-												
	4460	OK											
	4461-												
	4500	OK											
	4501-												
	4540	OK											
	4541-												
	4580	OK											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											
	5001-												
41	5001-5060												

BARBER - PRESALE R 0100125 R2501113

Model

Date

8/25

between 243

T. No.	Rounds Fired	Malfunctions												Remarks
		Firing	Unlocking	Primary Extraction	Secondary Extraction	Ejection	Cocking	Feeding	Loading	Locking	Breakages	Replacements	Can Failures	
42	5061-5065													8 1/2 at 23"
43	5101-5105													10 at 32" 30'clock
44	5101-5105													42 at 35" 50'clock
	5140	OK												
	5180	OK												
	5180	OK												
	5211-5215	OK												
	5261-5265	OK												
	5301-5305	OK												(111) Stock broke
	5341-5345	OK												
	5381-5385	OK												
	5421-5425	OK												
	5461-5465	OK												
	5501-5505	OK												
	5541-5545	OK												
	5581-5585	OK												
	5621-5625	OK												
	5661-5665	OK												
	5701-5705	OK												
	5741-5745	OK												
	5781-5785	OK												
	5821-5825	OK												
	5861-5865	OK												
	5901-5905	OK												

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