

EXPERIMENTAL DETAILS

MODEL 721

The Barrel was cleaned and air gauged per Routing Ticket. Bore dimension - .3096" max.
Trigger Pull: Avg. 5# 10 oz., Min. 5# 0 oz., Max. 5# 15 oz.
Firing Pin Indentation: Avg. .0196", Min. .019", Max. .020".
Bolt Opening: Avg. 9.7#, Min. 8#, Max. 11#.
Length of Springs: Sear Spring .485"
 Bolt Release Spring .314"
 Ejector Spring 1.2"
 Firing Pin Spring 6.24"

Routing
Ticket No.

1. Take Down Inspection Test #11.
- 2.* Head Space - .153" Go; .154" No Go.
3. Previously proofed.
4. Safety Operation Test #31.
5. Jar Off Test #21.
6. Cleaned and oiled.
7. Previously proofed.
8. Previously fired.
9. Previously fired.
10. Previously performed.
11. Product Inspection Test.
12. Accuracy Test #4 - See pg. 2 of the Report.

<u>Rounds Fired</u>	<u>Remarks</u>
13. 371-430	
14. 431-490	Satisfactory
15. 491-990	
16. 991-1050	

Bore Dimension - .3104" max.
Trigger Pull - Avg. 7# 12 oz., Min. 6# 1 oz., Max. 7# 3 oz.
Firing Pin Indentation - Avg. .0193", Min. .0189", Max. .020"
Bolt Opening - Avg. 10#, Min. 8#, Max. 11#.
Head Space - .153" Go; .154" No Go.
Gun cleaned.

18. 1051-1070
19. 1071-1072
20. 1073-1920
21. 1921-2000
22. 2001-2060

Bore dimension - .3104" max.
Trigger Pull - Avg. 6# 11.6 oz., Min. 6# 4 oz., Max. 7# 6 oz.
Firing Pin Indentation - Avg. .0199" Min. .019", Max. .0208".
Bolt Opening - Avg. 9.9#, Min. 9.5#, Max. 11#.
Head Space - .153" Go; .154" No Go.
Gun cleaned.

*Head Space gauge used ranges from .150" min. to .155" max.

EXPERIMENTAL DETAILS

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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	
23.	2061-2062														
24.	2063-2140														
	2141-2180		(1)								(1)	(1)			Bolt would not open. Broke cam on firing pin head when wrench was applied. Evidence shows an old break. Hardness indicates R 15N 81/82, specification is 88/92. Firing Pin (not changed because of assembly replacement).
											1				
											(1)				Firing Pin Head.
	2181-2262														

26.) See Item B, Appendix.

27.)

28.	2262-3000												
29.	3001-3060												
30.	3061-3062												
31.	3063-3082						(2)						Bolt overrode cartridge.

32. Bore Dimension - .3104" max.
 Trigger Pull - Avg. 5# 14.4 oz., Min. 5# 10 oz., Max. 6# 4 oz.
 Firing Pin Indentation - Avg. .0178", Min. .0163" Max. .017"
 Bolt Opening - Avg. 9.3#, Min. 8#, Max. 10.5#.
 Head Space - .154" Go; .155" No Go.
 Gun cleaned.

33. 3083-3980
 34. 3981-4000

Bore Dimension - .3104" max.
 Trigger Pull - Avg. 6# 2.2 oz., Min. 6#, Max. 6# 6 oz.
 Firing Pin Indentation - Avg. .0202" Min. .020", Max. .021".
 Bolt Opening - Avg. 9#, Min. 8#, Max. 10#.
 Head Space - .154" Go.
 Gun cleaned.

35.	4001-4060												
36.	4061-4062												
37.	Head Space - min.												
38.	4063-4082												
39.	4083-4142										(1)		Via. of Bolt ^{Head} .010" under min.
40.	4143-4540												
	4541-4580						(1)						Bolt override.
	4581-5000												

EXPERIMENTAL DETAILS

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Routing Rounds
Test No. Fired

41. 5001-5060

Bore Dimension - .3104" max.
Trigger Pull - Avg. 7# 3 oz., Min. 6# 7 oz., Max. 7# 14 oz.
Firing Pin Indentation - Avg. .020", Min. .019", Max. .021".
Bolt Opening - Avg. 8.8#, Min. 8#, Max. 10#.
Head Space - .155" Max.
Gun cleaned.

42. 5061-5065

43. Head Space - min.

44. 5066-5260

5261-5300

5301-5900

<u>Breakage</u>	<u>Replacement</u>	<u>Gun Failures</u>	<u>Remarks</u>
(1)	(1)	(1)	Stock broke.

Bore Dimension - .3104" max.
Trigger Pull - 7# 4.8 oz., Min. 6# 5 oz., 7# 10 oz.
Firing Pin Indentation - Avg. .0198", Min. .0195", Max. .020".
Bolt Opening - Avg. 8#, Min. 8#, Max. 8#.
Head Space - .155" Go.; .156" No Go.
Length of Springs: Firing Pin Spring 6"
 Ejector Spring 1.18"
 Sear Spring .48"
 Bolt Release Spring .311"