

Model M/721 Pre-PilotDate 1/21/47

R. T. No.	Rounds Fired	Malfunctions											Remarks
		Firing	Unlocking	Primary Extraction	Secondary Extraction	Ejection	Cocking	Feeding	Loading	Locking	Breakages	Replacements	
1.													<i>Satisfactory</i>
2.													Between Min. and Max.
3.	0-1												Satisfactory <i>Proved + stamped</i>
4.													Satisfactory
5.													"
6.													Cleaned and oiled.
7.													Between Min. and Max.
8.	2-130												
9.	131-230					(2)							<i>Using</i> Winch. Super X 180 gr.
10.	231-280												Shooters - M. H. Walker, W. E. Leek.
													Average Extreme Spread - 4.6" (100 yds <i>accuracy at 200 yds</i>)
													Conditions: 20 power scope; bench rest.
													180 gr. Soft Point Mushroom.
11.	281-340												Satisfactory.
12.	341-400												Position with respect to shooter:
													Rate of Angle with <i>Distance</i> Functioning respect to <i>from</i> shooter <i>shooter</i>
													Slow 3:20 o'clock 26-1/2"
													Med. 4:00 " 40-1/2"
													East 5:00 53-1/2"
13.	401-420												<i>Impossible to feed the nose of a round from the primer of a Chamber</i>
14.	421-440												"
15.	441-460												Split cases - Handled satisfactory. ?
													7 " heads - " <i>has generated by</i>
													Annealed Extractor. Due to defective <i>ammunition.</i>
													Continued firing without Extractor.
													Drilled heads not satisfactory.

Date _____

~~M. [redacted] pertaining to~~
~~Air. Sec. [redacted] [redacted] Safety~~
~~3d Div. [redacted] 10 Div. [redacted]~~

-3- (M/721 Pre-Pilot)

R. T.
No.

Condition		Grams of	Condition	Results
Rounds Fired	Proof Powder			
23 Objective: Determine strength of a Carburized Bolt Head				
1	2.0		Carburized Bolt Head	
1	2.9		"	
1	3.0		"	Satisfactory
1	3.1		"	Blown Primer. Bolt Head swelled
1	3.2		"	Split Stock. Broken Bolt handle
24 Objective: Determine if 1/4 brazed bolt head will remain attached to Bolt Body				
1	2.0		Normal Bolt Head	Inletted Bolt Head, swelled
1	2.9		1/4 brazed to Bolt Body	Satisfactory
1	3.0		Body.	Head came loose from Bolt Body.
25 Objective: Determine if Bolt Handle will withstand the force of a load containing 2.0 gms proof powder				
1	2.0		Normal Bolt Head adjusted to 1.970" Head Space max. Normally brazed Bolt Handle. Bolt Handle shimmed to take load.	Bolt Handle broke at brazed joint. No evidence of upset on bolt lugs.
26 Objective: Determine if a half heat treated Bolt Head will upset under abnormal pressure				
1	2.0		Bolt Head half heat treated	
1	2.9		"	Blown primer
1	3.0		"	Bolt Head swelled.
1	3.1		"	Bolt Handle broke off at braze during extraction.
1	3.2		"	No evidence of upset lugs was noted
27 Objective: To determine if one half brazed Bolt Head containing 1/2 bronze will break from Bolt Head during firing.				
1	3.5		Normal Bolt Head. Bolt Head not brazed to Body. Bolt head in locked position	
1		Proof load	Normal brazed Bolt Handle.	
1			Objective: To determine if Bolt Body moved rearward during firing with sufficient force to break the brazed Bolt Body Handle.	
1				No evidence of Bolt Body moving rearward during firing
28 Objective: To determine if one half brazed Bolt Head containing 1/2 bronze will break from Bolt Head during firing.				
1		Proof		No Evidence of braze breaking but not sufficient to allow Bolt Head to move with respect to Bolt Body. Extractor rim on Bolt Head broken.
29 Objective: To determine the advance in H.S. by proof firing of a Bolt Head containing dead soft lugs. Normally brazed to Bolt Body.				
1		Proof	Bolt head containing dead soft lugs. Normally brazed to Bolt Body	Head space - .158"
1				.160
1				.1605