

CC:

H. A. Brown } Is
 G. H. Alvis } Turn
 V. DeFries
 J. Hammond
 W. Holloway
 P. B. Rutherford
 E. H. Smith
 File 100.800

September 17th, 1946

RECEIVED
 SEP 20 1946
 W. HOLLOWAY

TO: E. J. Hackman

FROM: W. T. Lammox

SUBJECT: ESTIMATED MANUFACTURING COST MODEL 721 RIFLE .222 CALIBER
 ESTIMATE 409N-17

Per request we have prepared a high spot cost estimate of material and labor to manufacture the Model 721 rifle in .222 caliber. W. H. Palmer furnished information as to those parts which differ from Standard A grade and are as follows:

	Material	Cost Per 100	Labor
1. Magazine Filler Piece - a rectangular 1/8" x 1/2" x 1/4" shaped piece to act as filler in magazine opening.	\$ 5.00	\$ -	-
2. Magazine Spring - similar to A grade only narrower.	-	-	-
3. Magazine - similar to A grade only shorter -	-	-	-
4. Magazine Follower - similar to A grade only shorter.	-	-	-
5. Barrel - same as A grade except bore - which will be same as .224 caliber and chambered for .222 caliber.	-	-	-
6. Bolt Body - same as standard except counterbore altered to provide groove for extractor collar.	-	-	-
7. Extractor - similar to standard	-	-	-
8. Extractor Collar - new part.	2.60	-	-
9. Bolt Stop Block - new part.	.30	1.75	-
10. Receiver A grade altered to provide additional clearance at front end of ejection port.	-	-	1.50

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	Cost Per 100	
	Material	Labor
11. Bolt Head - same as A grade except eliminate recess at front end and add a turned groove on O.D. Provide mill cut for extractor.	\$ -	\$.70
	<u>\$ 7.30</u>	<u>\$ 3.95</u>
Safety Factor*	<u>8.00</u>	<u>2.00</u>
Grand Total	<u>\$15.30</u>	<u>\$ 5.95</u>
Cost Per Each	\$.15	\$.06

- * The normal year forecast production of the .222 caliber rifle is 1000. Therefore, it is questionable whether these components comparable to the standard rifle can be purchased at same cost. To cover this possibility and also the lack of a complete design picture, the safety factor is shown unusually high.



W. T. Lennon
Engineering Section
Technical Department

WTL:HIF