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SUBJECT 1/721 Fire Control - Double Sear

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Objective: To determine the functional performance, endurance, and safety characteristics of a double sear for M/721 Fire Control.

Conclusion: This test shows that the Double Sear used perform satisfactorily during 10,000 dry cycles under dust conditions.

That the manual Safety will withstand 10,000 dry cycle operations without appreciable wear.

Test of Safe y wear	Method 5,000 dry cycle <u>safety</u> operations without oil	Measurezent between Trigger Connector and Sear	Near on Safety C.33ª
	5,000 dry cycles with dust conditions	Same	.0006" Change0062"
Test of Sear and "rigger Connector wear	· ·	- -	Wear on Sear
	10,000 dry cycle bolt operations with dust conditions	Sear shoulder en- gaged by trigger connector	

O Cycles A =.0573" B = .0417" 10,000 Cycles A -.0666" B[#]= .0426"

Changes .0093" .0009"

*Note - "B" dimension enlarged because Trigger Connector forced metal to the leading edge of the Sear Shoulder. Bolt Cocking Cam and Cocking Piece showed an upset and was honed at 7000 cycles.

Hounds Fired after dry oycle tests

60

Remarks

Gun would not fire in a partially unlocked condition. Difficulty was encountered in functioning the Manual Safety.

W. E. Leek Test Engineer

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