

DAILY PROGRESS REPORTDate 3/26/67SUBJECT: M/721 PRE-PILOT TESTING

Bolt Lugs and Bolt Handle shear testing has been resumed with results as follows:

<u>Rounds Fired</u>	<u>Grams of Proof Powder</u>	<u>Remarks</u>
0-1	2.0	Normal Bolt Head.
1-2	2.9	1/4 contact surface brazed to Bolt Body.
2-3	3.0	Bolt Head came loose from Bolt Body.

Bolt Head - half heat treated - 1/2 contact surface brazed to Bolt Body.

0-1	2.0	
1-2	2.9	
2-3	3.0	Blown Primer.
3-4	3.1	Inlet ring on Bolt Head swelled.
4-5	3.2	Bolt Handle came off at brazed section during manual functioning of gun.

Further testing is being contemplated using:

1. A bolt with normally hardened lugs adjusted to max. head space and shimmed to take the load on the bolt handle will be subjected to the firing of a standard load.
2. A bolt containing "dead soft" locking lugs.

R. S. Lock
Test Engineer

RE:MC