

DATE

9-5-44

SUBJECT OF EXPT.

Assembly of m-721 & m-722

Two of the four models were assembled complete 9-5-44. The bolt heads were turned on and pinned to determine the actual strength requirements.

m-721	300 H&H	m-722	300 H&H
*headspace before	max. + .005"		min
After 5 proof loads	max. + .0035"	10 proof loads	min

The m-721 showed very high pressure on proofing.

The m-722 showed only ordinary pressure on proofing.

The m-722 bolt head had broken loose before firing. Only the pin was holding it. However it held quite satisfactorily for proofing.

A .45" chamber was cut in the bolt body of the 722 and the bolt head broke out.

Considerable trouble was experienced with the softags. Carter checked one and found it would not meet the drawing. The safety surface was .005" under rim and .030" misplaced.

EXPERIMENTER

WITNESS

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