

MODEL 552

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552 May 3-56*

Design is essentially complete.

Drawings have been turned over to M&S and PEAC for the economics of this current design.

TESTING

The field grade model has been fired 16,000 rounds with the following results:

1. Breakages

Extractor spring at 10,000 rounds.

The bolt expanded at the hammer slot causing difficulty in disassembling gun. Present heat treat calls for cyaniding. It is believed that carborizing will correct this trouble.

It was necessary to adjust the trigger in fire control at 13,000 rounds due to elongation of the hammer and sear pin holes in the casting affecting the connector and sear engagement.

2. Function

Feeding problems experienced earlier in the test have been corrected.

Ejection on 22 cal. longs is the current problem and is being investigated.

The gallery version has been fired 11,000 rounds to date. There have been no breakages and function appears to be satisfactory.

HLH:B 4/30/56

