

xc: File-NBAR

REMINGTON ARMS COMPANY, INC.

INTER-DEPARTMENTAL CORRESPONDENCE

Remington
RUMFORD

PETERS
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JW BOWER
RS MURPHY

NBAR Testing

A test request was issued to function test NBAR firing pin and extractor designs and compare performance with the current designs.

Three NBAR's were tested against three controls, M/700's. Outline of the test is as follows:

- Take firing pin indents on all 6 guns
- Dry fire 2500 cycles
- Live fire 500 rounds with live load, unload 5 rounds every 50 rounds.
- Repeat for a total of 7,500 dry firings and 1,500 live firings.
- Live fire 1 NBAR and 1 control to 3,000 rounds total each.
- Take firing pin indents after test and record all malfunctions and/or breakages.

A summary of the results showed:

- No firing pin or extractor breakages or malfunctions for either design.
- All malfunctions were magazine related.
- Inspection of the firing pins, after test, showed no unusual wear or galling. NBAR 3,000 round pin still had a spherical point where as the M/700 3,000 round pin had a flat spot on the point.
- Extractors from 2 NBAR's (serial #B6697275 and #B6622677) were removed and inspected, and also show no signs of unusual wear or failure.
- Brass shavings do collect in the extractor hole (NBAR) to some extent, but they do not effect performance or function.

NBAR designed firing pins and extractors proved to be as good as M/700 designed components and acceptance of these parts should proceed.

Test lab results attached.

FHSmith:sps
Attach.