

RD-55-B

REMINGTON ARMS COMPANY, INC.

INTER-DEPARTMENTAL CORRESPONDENCE

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"CONFINE YOUR LETTER TO ONE SUBJECT ONLY" _____

Ilion, New York
April 7, 1983

TO: C.B. WORKMAN
FROM: C.E. RITCHIE *C.E. Ritchie*
SUBJECT: MODEL SEVEN NEW STYLE TRIGGER EVALUATION

The purpose of the evaluation was to analyze the effect of removing material from both sides of the trigger to allow additional trigger clearance. Three analyses were performed as follows:

1. John Brooks, Supervisor Current Firearms Design evaluated the effects of stack-up of dimensional tolerances;
2. Scott Franz and Ed Yetter, Jr. Basic Systems Research Group evaluated the theoretical aspects of the new trigger compared to old style trigger during a drop jar-off test and
3. The Research Test Lab performed a physical drop/jar-off test on both the old and new style triggers.

Results of these analyses are as follows:

1. With the new style trigger cuts an additional .0135" per side is achieved.

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2. The theoretical calculations indicated there is a 10% greater moment of inertia with the new style trigger over the old style trigger.
3. Drop and jar-off tests indicate the new style trigger to be as good "as the old style". The new style trigger also meets or surpasses SAAMI jar-off test requirements.

Overall results indicate the new style trigger should be a satisfactory replacement for the old style trigger.

If additional information is needed of test or evaluation reports, please contact me.

CER:js