

REMINGTON ARMS COMPANY, INC.

INTER-DEPARTMENTAL CORRESPONDENCE



*E-157*  
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"CONFINE YOUR LETTER TO ONE SUBJECT ONLY" \_\_\_\_\_

Ilion, New York  
June 8, 1983

TO: R.E. FIELITZ  
FROM: C.B. WORKMAN *CBW*  
SUBJECT: HIGHLIGHTS FOR STAFF MEETING

Model Seven Lightweight

Twenty five rifles in .308 Caliber have been assembled using thicker material for the Floor Plate Base Assembly, a heavier Latch Spring, and an altered Latch to increase engagement. The rifles were assembled using the sensitivity analysis criteria established from previous tests. The rifles are in test now with approximately 750 function and endurance rounds on each rifle.

The Floor Plate cover on one rifle came open toward the end of the testing. It was fired from the jack another 40 rounds and it came open three more times. None of the rifles had been adjusted from the beginning of the test. At this time the assembly screws were checked and found to be snug but with zero torque load. The screws were tightened and there have been no more floor plate cover openings on this rifle. In checking thread engagement it was found that there were approximately two threads engaged. This was caused during initial assembly when shim stock was used to adjust for proper latch and cover engagement. This will be allowed for in final dimensioning. Testing is continuing on all twenty five rifles.

Drawings have been completed for the various parts that will be made from the thicker material. A tolerance analysis is being made to determine the final dimensioning required for proper latch engagement.

Testing and dimension analysis will be complete June 10.

To: R.E. Fielitz

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#### Model 1100 Special Shotgun

Research effort on prevention of cracking in the M/1100 Special fore-ends has been concentrated on two primary designs.

Both designs utilize a new detent system retained in the magazine tube. Plastic molds for this system have been ordered. Scheduled date for this design is July 15, 1983. The prototype molds can be used to support production through the end of this year.

The first design is a buffered fore-end having an elastomer sleeve retained in the fore-end. Sample molded parts are expected by June 30.

The second contingency design utilizes an extension on the magazine cap which separates the fore-end from the internal loads caused by the barrel. Parts for this system will be ready for test June 22, 1983.

Three back up designs are being worked on:

- o Epoxy impregnation of the wood
  - Samples ready for test June 10, 1983
- o Black plastic fore-end tip
  - Samples ready for test June 20, 1983
- o A double buffer system and a plastic fore-end liner
  - Samples ready for test June 30, 1983

#### Injection Molded Metal and Ceramic Components

A pilot run of our first commercial part (lyophilization stoppers for West Co.) has begun. Delivery of samples to West Co. is scheduled for August.

Sandia National Laboratories has submitted a request for quote for 200 PZT (lead zirconia titanate) samples. It has been forwarded to Bridgeport for review.

To: R.E. Fielitz

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Cut Checkering Machine Development

A purchase requisition has been issued to a CO.RE.MA CNC Machine for checkering sanded wood. Machine delivery is expected in November.

Runoff of Bostomatic Machine, for checkering pressed wood, is scheduled for the week of June 27.

CBW:js