



Elion, New York  
October 22, 1959

V. G. DE REUS - W. A. BEST

MODEL 721 ACCURACY DEVICE

At your request I have estimated what I think would be necessary to produce an accuracy device or make adjustments to the present device to accommodate the M/721 rifle with the new sporter stock which includes a cheek piece. The following estimate is broken down into three phases:

- 1) Would be to cut the left support of the carriage and patch with an extension which would accommodate the cheek piece of the stock,
- 2) Would involve a top carriage only,
- 3) Would be to design a machine to properly fit the M/721 and would involve new carriage, base and stand.

It must be remembered that in designing an accuracy device, although the principles are rather secure, there are still oddities in experimentation to actually make the gun shoot comparable with a man's shooting without adjustment from shot to shot, and still not interfering with the vibrations of the barrel or warping of the stock through its holding mechanism. Therefore it must be expected that a considerable amount of trial and error work will be necessary to make the gun shoot accurately from an alternate machine.

Phases 1 and 2 are not recommended. It is estimated that Phase 1 would cost approximately \$2,000, Phase 2 would cost approximately \$6,000, and Phase 3 about \$25,000.

The writer would not be interested in development work if involved with Phases 1 or 2 as I do not think it is practical approach and there is a good chance of failure in accomplishment. The present machine is worn out; the elevating and traversing mechanism is so worn it takes two or three shots from each gun to take up the slack in the mechanism --- at a great waste to Remington. The top carriage is too heavy, although it is as light as can be made in its present design. Therefore any copy or alteration to it, utilizing the same base, would involve weight difficulties which tend to damage stocks by driving butt plates through the stock section, and causing inaccuracies.

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It is recommended that Phase 3 be the program Remington should follow in development of a machine for the M/721, and that it be assigned to the Machine Development Group. I will be glad at any time to assist in furnishing basic information as to what is necessary to make these machines function; however, it is not felt that its development falls within our present scope of work.

  
W. E. Leek, Supervisor  
Arms Design Section

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