

K.W. Soucy
8-23-78

Research Progress Report

Model 1100 weighted 17.20, 28 and 910 Skeet Guns

Compens. to for both new systems
are due from the model 5 days by
9-15-78.

XSG

Two DuPont Vespel formulations, SP
polyimide and K5 aramid resins, have
been tried for use as gas system
pistons. Both were unsuccessful.
DuPont experts feel that breakage
is due to internal stresses caused by
high surface temperatures and
low thermal conductivity of the
materials. Further work on metalized
pistons will not be done until
more promising materials become
available.

New compens. for the #3
vibrator piston gun system will be
due from the model 5 days by 9-15-78.
The other compens. for the #3
vibrator piston gun system will be due from the
model 5 days by 9-15-78. A stronger vibrator
system and experimental 5-days (new
model 5 days)

Model 870 All Pages - Word Cramatics.

Drawings are complete. They will be checked and transmitted by 8-30-78

Model 3200 Sheet Set.

A "Barrel Assembly, 11" dia" drawing was prepared and transmitted. It specifies the fitting operations necessary to match extra barrel assemblies to frames. Its primary purpose, however, is to provide separate part and order numbers for extra sheet barrel assemblies for cost allocation purposes and avoidance of income tax.

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Models 7200 - 7600

We are continuing to work on the design of the new frame. Several potential issues have been identified and are being resolved. The design of the new frame is being completed and will be transmitted all of the

(A) The first Trial and Pilot set was tested and targeted on 5-23-78. There were no significant problems during assembly, fitting or testing operations. All barrels targeted within specification. Four more sets are to be completed within the next few days.

was some wear on the corners of the handle and actuation was felt to be inconvenient. These problems will be corrected on a subsequent set of parts. The scope mount exhibited no mechanical problems and shot much better groups than did control sample receiver mounts. Point of impact was found to vary as a function of number of rounds, or rather the guns. This was found to be due to "walking" of the scope adjustment screws and occurred in the control guns also. Remington's promotional scopes (Universal) were used for the test.

Model 1100 and 870 Improvements

The batch of 50 m/870 latches (spring retained) were incorrectly heat treated and will have to be re-treated.

The upper receiver of Model 1100 was found to be defective and was replaced and retested for functionality. It was found that the receiver was defective.