

SHOTGUNS - contd.Formed Receiver - Brazed Insert (Model 870) - contd.

developed in two of the three samples in under 7000 rounds of testing. Analysis indicates the stress concentration at the ejection port may be overcome by increasing the coverage of the brazed top insert to match the ejection port.

Laboratory equipment to ultrasonic test the braze has been used in the development. This equipment would not be practical for production. The discussion brought out that for an acceptable process, a 100% test of all brazed parts would be required.

The appearance of the sample was acceptable to Marketing.

Assuming the development of adequate strength, the field reaction to changing from a solid steel Receiver to a formed shell with brazed inserts still has to be evaluated. All competitive guns and Remington have emphasized the solid steel as a desirable feature.

The results of a blowup of the two constructions would also be a factor in making a decision.

Committee Action:

R & D is to review the status and further work and expenditure to continue the development.
R & D will determine the advisability of continuing the development for future and present gun manufacture.

Receiver

R & D has made preliminary investigations of welding the two studs in the Receiver to fasten the Ejector and Spring to the Receiver. The indications are the dimensional control necessary cannot be accomplished by available welding techniques. For the present, the use of rivets will have to be continued.