

SHOTGUNS - contd.MODEL 870, 28-410 GAUGEMODEL 1100, 20-28-410 GAUGE - contd.

Relative endurance of 28 and 410 gauge and 12 gauge comparisons have been made on the major parts (Receiver, Breech Bolt, Locking Block and Barrel Extension section of the Barrel). Tests indicate that endurance of the Receiver and Barrel Extension will exceed the life expectancy of the 12 gauge. For other parts, the expected life equals the corresponding 12 gauge parts.

R & D expects to have twenty-six (26) 28 and 410 gauge skeet guns (with weight attachment) for field test in July. Plant pilot parts are being used where available.

Malfunction rates on model guns has been averaging approximately 1% in R & D tests. It is believed this will be reduced in the prototypes having all design changes. Expected average malfunction performance of the 28 and 410 gauge autoloading gun should be 1% or less. For the 410 gauge, the two lengths of shells and variations in loads affects gun performance. 83

As previously indicated, there is a flash bloom when firing the Model 1100 guns. This is characteristic of all autoloading guns. While not desirable, the bloom is comparable with the 12 gauge but seems to occur more frequently. Tests indicate there is no danger to the shooter.

R & D indicated that endurance of the 20 gauge light weight guns will not be comparable with the other small gauges but probably will equal the 12 gauge.

Production reported that design revisions have been made to the Barrel, Slide Block, Locking Block, Breech Bolt, Ejector, 410 gauge Extractor, Model 1100 Operating Handle, Model 1100 Action Bar and Model 1100 Action Bar Sleeve. The significant changes which affect all models and the schedule are the Barrel, Locking Block and Breech Bolt.