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TO: A. A. HUGES *9.74*

FROM: R. E. NIGHTINGALE - W. M. CURRY

LOCK TIME OF M/580 and M/788

At your request lock time of the M/580 and M/788 was measured and comparisons made with M/700, M/600 and Winchester M/70 lock times.

The following results were measured using a photonic sensor to record firing pin motion on an empty chamber. Measured time is from initial motion to terminal motion of the firing pin.

	M/580	M/788	M/600	M/700	M/70
Gun Ser. No.	Pilot Line #37	Exp. Gun	5382	166793	56021
Caliber	22 rim fire	222	35 Rem.	22/250	22 Hornet
Time #1	1.80 millise.	2.40 millise.	3.00 ms.	3.00 ms.	4.30 ms.
Time #2	1.80	2.30	3.00	3.30	4.00
Time #3	1.70	2.40	2.95	3.18	4.20
Time #4	1.70	2.40	2.95	3.20	4.00
Time #5	1.70	2.30	2.80	3.20	4.20
Avg. Time	1.74	2.36	2.94	3.17	4.14
Max. Time	1.80	2.40	3.00	3.30	4.30
Min. Time	1.70	2.30	2.80	3.00	4.00
E.V.	0.10	0.10	0.20	0.30	0.30
Firing Pin Assembly Wt.	.86 oz.	1.12 oz.	3.48 oz.	3.80 oz.	4.51 oz.
Cocked Spg. Load	19.5 lbs.	21 lbs.	27 lbs.	23 lbs.	21 lbs.
Fired Spg. Load	16 lbs.	18 lbs.	24 lbs.	20 lbs.	12 lbs.
Striker Travel	.225 in.	.275 in.	.300 in.	.275 in.	.375 in.