

REMINGTON ARMS COMPANY, INC.

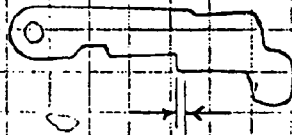
ENGINEERING DEPARTMENT **CHROM** COMPUTATION SHEET

SHEET NO. 1

PROJECT: M600 POWDER METAL SEAR  
 CHROME PLATED POWDER METAL SEAR  
 DATA FOR DROP TESTING COMPUTER A/HI

DATE 6-9-66

| SEAR NUMBER | TOTAL NUMBER OF DRY CYCLES | SEAR RADIUS AT CONNECTOR EDGE | SEAR COMPONENT WEIGHT & HARDNESS | Avg. TRIG. PHLL AT BEGINNING AND END OF TEST |
|-------------|----------------------------|-------------------------------|----------------------------------|----------------------------------------------|
| 1           | 0                          | .0034                         | 9.3900 gr.<br>48 RC SCALE        | 5.77 - 5.60                                  |
| 2           | 0                          | .0039                         | 9.3705 gr.<br>51 RC SCALE        | 6.25 - 5.30                                  |
| 3           | 0                          | .0042                         | 9.3655 gr.<br>53 RC SCALE        | 5.45 - 5.70                                  |
| 4           | 0                          | .0039                         | 9.4176 gr.<br>51.5 RC SCALE      | 5.00 - 4.85                                  |
| 5           | 0                          | .004                          | 9.4423 gr.<br>53 RC SCALE        | 5.50 - 5.05                                  |
| 6           | 0                          | .0005 <sup>+</sup>            | 9.5337 gr.<br>44.5 RC SCALE      | 5.50 - 5.50                                  |
| 7           | 0                          | .000 <sup>+</sup>             | 9.5182 gr.<br>46.5 RC SCALE      | 5.90 - 5.70                                  |
| 8           | 0                          | .0012                         | 9.4955 grams<br>45.0 RC SCALE    | 5.25 - 5.50                                  |



SEAR RADIUS AT CONNECTOR EDGE MEASURED ON THE OPTICAL COMPARATOR.

WAIST HIGH IS TAKEN AS 45 INCHES.

M 600 POWDER METAL SEAR  
 DRD P TEST RESULT WITH M600  
 PM SEAR TESTING

PROD NO

WORKS

COMPUTED AAH.

DATE 6-14-66 19

| TYPE OF SEAR TESTED | NUMBER OF FAILURES | DROP TEST STEP NO. | NUMBER OF SEARS TESTED | TEST GUN SERIAL NO. | COMMENTS |
|---------------------|--------------------|--------------------|------------------------|---------------------|----------|
| STANDARD PROD.      | 1                  | VI-2               | 2                      | 20344               |          |
| STANDARD PROD.      | 1                  | VI-4               | 2                      | 20344               |          |
| FIRST PM.           | 0                  |                    | 1                      |                     |          |
| LARGE CON. RAD.     | 1                  | VI-4               | 4                      | 1167                |          |
| LAST SHARP SEARS    | 1                  | VI-3               | 3                      | 1167                |          |
| LAST SHARP SEARS    | 1                  | VI-2               | 3                      | 20344               |          |

# VI JAR OFF TEST

A. DROP GUN "WAIST HIGH" ON SOLID WOOD SURFACE WITH SAFETY "OFF".

1. BUTT DOWN
2. MUZZLE DOWN
3. TOP SIDE DOWN
4. BOTTOM SIDE DOWN

B. TRIGGER SHALL BE TRIED AFTER EACH DROP TO DETERMINE WHETHER THE SAFETY HAS RELEASED ANY MECHANISM WHICH MAY ALLOW FIRING.

C. THREE DROPS PER POSITION.

"WAIST HIGH" IS TAKEN AS 45 INCHES.

### CHRONOLOGICAL RECORD OF TESTING

|                     |        |                         |                  |
|---------------------|--------|-------------------------|------------------|
| MODEL & DESCRIPTION | m/600  | New P.M. seas.          |                  |
| CALIBER or GAUGE    | 308    | <del>7.62 mm</del>      | (LATEST - SHARP) |
| DATE                | 6-3-66 | TEST P.M. Sl. Drop Test | (re-test) TESTER |
|                     |        |                         | FACE NO.         |
|                     |        |                         | J. Hennings.     |

Barrels - 11079 20344 were used placing different sears  
in these two barrels only (3 sears)

Isi- I- Trigger pulls 4 firing pin indents (on sep. sheets.)

Test: II - No malfunctions noticed.

Test - III - (butt down) gear # 2 had a total of 3 drops in which the safety was jarred to the "<sup>ON</sup>~~OFF~~" pos.

Test - IV - No malfunctions noticed.

Test IV - (muzzle down) sensors 1, 2, 3 had a total of 7 drops in which the saffoy was jarr'd to the "OFF" pos.

Test - VI - (buck down) - gear 1 - on all three drops the  
safety was jurred to the "ON" pos.

(muzzle down) - Star #3: on second drop gun fired.

top-side down - near #2 on first drop gun fired.

CHRONOLOGICAL RECORD OF TESTING

MODEL & DESCRIPTION M/600 New P.M. sears.

CALIBER or GAUGE 308 (LARGE RAP. SEAR

DATE 6-2-66 TEST P.M. Sear Drop Test

TESTER

PAGE NO.

J. Hennings.

Barrels # 1169 + 20344 were used placing different sears in these two barrels only.

Test - I- Trigger pulls + firing pin indents (on sep. sheets)

Test - II- No malfunctions noticed.

Test III- (muzzle down) - sears # 1+2 had a total of 5 drops in which safety jarred to "ON" position.

Test - IV- No malfunctions noticed.

Test - V- (butt down) - sears # 3,3,4,5 had a total of 13 drops in which safety jarred to "OFF" position.

Test - VI- (muzzle down) - sears # 2,3,4 had a total of 9 drops in which safety was jarred to "ON" position.  
(top side down) - sear # 2 - on third drop bolt jarred open.

(bottom side down) - sear # 4 on second drop the jar fired the firing pin.

NOTE! ON BOTH ACTIONS- PIN HOLE WAS TIGHT CAUSING SEAR TO BIND!

CHRONOLOGICAL RECORD OF TESTING

MODEL & DESCRIPTION *m/600 std. rear drop test*  
 CALIBER or GAUGE *308* PRESENT PRODUCTION (2 pieces)  
 DATE TEST TESTER PAGE NO.

*6-13-66 661-A " 1167 & 20344 308 cal. m/600  
 were dropped from various pos. with  
 std. rear in fire-control.*

*" 1167 all tests ok except Test V. muzzle-down  
 waist high the safe jammed to "off" pos. on all 3 drops*

*" 20344 Tests I-IV ok*

*Test II - (butt down  
 waist high) → safe jammed to "off" pos. on all 3 drops*

*Test III → (muzzle-down  
 waist high) on 1st drop gun fired*

*Test IV → (bottom-side down)  
 waist high - on 3rd drop gun fired*

*Test V → (butt down  
 waist high) → safe jammed to "on" pos. on 3rd drop*