

C6587670

MODEL 700™ M24

Model **SMS**™

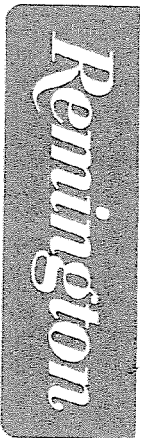
Action

Barrel Length

Capacity

Order No. **5716**

\*Includes 1 in chamber.



**Smead®**

No. 2-152-5L

# Remington



VERY IMPORTANT  
Instruction Book  
enclosed to assure  
safe use of this  
firearm.

MODEL 700<sup>TM</sup> H24

SERIAL NO.  
C6587670

ORDER NO.  
5716

MADE IN ILION, N.Y. U.S.A. Reg. U.S. Pat & Tm. Off, Marca Registrada Marque Deposee.

01



5716 C6587670

UPC



0 47700 25716 7

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER  
KINZER V. REMINGTON

M2400024950

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6587670

| OP. #     | OP. NAME                                                 | READINGS | DATE     | INIT |
|-----------|----------------------------------------------------------|----------|----------|------|
| 575 & 580 | Assemble Action and Stock                                | 10 9     | 90       | Rw   |
| 600       | Proof                                                    | 10 9     | 90       | Rw   |
| 607       | Check Headspace                                          | 10 9     | 90       | Rw   |
| 610       | Dis-assemble Gun                                         | 10 9     | 90       | Rw   |
| 612       | Magnaflux Barrel Action                                  |          | 10/11/90 | KR   |
|           | Magnaflux Bolt                                           |          | 10/11/90 | KR   |
| 615       | Rollmark Caliber                                         |          | 10/11/90 | LG   |
| 617       | Drill and Tap Sight Holes                                |          | 10/11/90 | KB   |
| 618       | Polish Barrel RW                                         |          | 10/12/90 | WB   |
| 620       | Apply Coatings (Barrel Action)                           |          | 10-18-90 | TH   |
|           | Apply Coating (Bolt)                                     |          |          |      |
| 625       | Final Assembly                                           |          |          |      |
|           | A) Clean inside of Bolt Assembly                         |          | 10/22/90 | Rw   |
|           | B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head |          | 10/22/90 | Rw   |
|           | C) Inspect Ejector Hole for Chamfer                      |          | 10/22/90 | Rw   |
|           | D) Oil Firing Pin Ass'y                                  |          | 10/22/90 | Rw   |
|           | E) Adjust Trigger Pull to Min Setting and Stake          |          | 11-6-90  | MI   |

| op. #        | OP. NAME                                                    | READINGS |       |       |          | DATE | INIT     |     |
|--------------|-------------------------------------------------------------|----------|-------|-------|----------|------|----------|-----|
| 625<br>cont. | F) Safety On Force                                          | 3 1/2    | 3 1/2 | 3 1/2 | 11/6/90  | WLB  |          |     |
|              | G) Safety Off Force                                         | 2 1/4    | 2 1/2 | 2 1/4 | 11/6/90  | WLB  |          |     |
|              | H) Trigger Pull Test & Retainability                        |          |       |       | 11/6/90  | XI   |          |     |
|              | I) Firing Pin Indent                                        | .0205    | .021  | .021  | 11/6/90  | WLB  |          |     |
|              | J) Assemble Stock                                           |          |       |       | 11/6/90  | RW   |          |     |
|              | K) Assemble Swivel Studs                                    |          |       |       | 11-20-90 | 928  |          |     |
|              | L) Attach Front and Rear Sight Assemblies                   |          |       |       | 11/6/90  | RW   |          |     |
|              | M) Iron Sight Alignment                                     |          |       |       | 11/6/90  | RW   |          |     |
|              | N) Detach Front & Rear Sights & place in numbered container |          |       |       | 11/6/90  | RW   |          |     |
|              | O) Attach Scope to Rifle                                    |          |       |       | 11/6/90  | RW   |          |     |
|              | P) Detach & Attach Scope 20 Times                           |          |       |       | 11/6/90  | RW   |          |     |
| 640          | Gallery Target & Test                                       |          |       |       | 11-8-90  | DH   |          |     |
|              | A) Time                                                     |          |       |       | 11-8-90  | DH   |          |     |
|              | B) Malfunctions                                             |          |       |       | 11-8-90  | DH   |          |     |
|              | C) Pierced Primers                                          |          |       |       | 11-8-90  | DH   |          |     |
|              | D) Optical Clarity of Scope                                 |          |       |       | 11-8-90  | DH   |          |     |
| 645          | Inspect for Live Ammo                                       |          |       |       | 11-8-90  | DH   |          |     |
| 655          | Final Inspection                                            |          |       |       |          |      |          |     |
|              | A) Headspace                                                |          |       |       | 11-20-90 | 928  |          |     |
|              | B) Trigger Pull                                             | 262      | 266   | 264   | 263      | 268  | 11-20-90 | 928 |
|              | C) Function                                                 |          |       |       |          |      | 11-20-90 | 928 |
| 660          | Pack                                                        |          |       |       |          |      | 12/12/90 | NF  |

SWS TRIGGER PULL TEST

AVERAGE PULL FORCE BETWEEN  
INITIAL & CYCLE TESTS  
2.50# + .50#  
3.00# + .75#  
4.00# + 1.00#

SERIAL NO. C6587670

DATE 11-6-90

TESTER JLL

|         | 2.50#<br>INITIAL | 2.50# AFTER<br>50 CYCLES | FINAL TEST &<br>TO RESET 2.50# |     | COMMENTS                                                               |
|---------|------------------|--------------------------|--------------------------------|-----|------------------------------------------------------------------------|
| PULL #1 | 2.27             | 2.27                     | 2.26                           | 262 | MIN. SETTING,<br>NO AVG. OF 5<br>READINGS ACCEPT-<br>ABLE LESS THAN 2# |
| PULL #2 | 2.22             | 2.28                     | 2.21                           | 266 |                                                                        |
| PULL #3 | 2.20             | 2.28                     | 2.23                           | 264 |                                                                        |
| PULL #4 | 2.21             | 2.27                     | 2.16                           | 273 |                                                                        |
| PULL #5 | 2.32             | 2.28                     | 2.25                           | 268 |                                                                        |
| TOTAL   | 11.22            | 11.38                    | 11.11                          |     |                                                                        |
| AVG.    | 2.244            | 2.276                    | 2.222                          |     |                                                                        |

|         | 3.00#<br>INITIAL | 3.00# AFTER<br>20 CYCLES |  | COMMENTS |
|---------|------------------|--------------------------|--|----------|
| PULL #1 | 3.25             | 3.29                     |  |          |
| PULL #2 | 3.35             | 3.35                     |  |          |
| PULL #3 | 3.32             | 3.20                     |  |          |
| PULL #4 | 3.35             | 3.33                     |  |          |
| PULL #5 | 3.31             | 3.30                     |  |          |
| TOTAL   | 16.58            | 16.47                    |  |          |
| AVG.    | 3.316            | 3.294                    |  |          |

|         | 4.00#<br>INITIAL | 4.00# AFTER<br>20 CYCLES | MAX SETTING<br>GREATER THAN 4# | RESET TO 4# FOR<br>TARGET & ACCURACY |
|---------|------------------|--------------------------|--------------------------------|--------------------------------------|
| PULL #1 | 4.47             | 4.46                     |                                | 4.40                                 |
| PULL #2 | 4.17             | 4.42                     |                                | 4.41                                 |
| PULL #3 | 4.45             | 4.45                     |                                | 4.41                                 |
| PULL #4 | 4.41             | 4.41                     |                                | 4.32                                 |
| PULL #5 | 4.26             | 4.33                     |                                | 4.41                                 |
| TOTAL   | 21.76            | 22.07                    |                                | 21.95                                |
| AVG.    | 4.352            | 4.414                    |                                | 4.39                                 |

CENTROIDAL DISTANCE CALCULATIONS  
FOR RIFLE # C6587670  
8 Nov 1990

CENTROIDAL DISTANCES

|      |   |          |
|------|---|----------|
| 0 TO | 1 | .358437  |
| 1 TO | 2 | .261205  |
| 1 TO | 3 | .0349857 |
| 1 TO | 4 | .171058  |
| 1 TO | 5 | .369005  |

$\frac{28}{54}$  <----FOR

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .268  
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .0786  
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .279288

THE AMR FOR THIS RIFLE IS: .7858

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FILE:/PATTERNING/CENTERFIRE\_PATT/06587670

# CENTERFIRE PATTERNS

# 1

POA

1in circle

2in circle

3in circle

# OF SHOTS - 10

# IN CIR

1in = 4

2in = 10

3in = 10

HS= 1.531

VS= 1.631

GS= 1.853

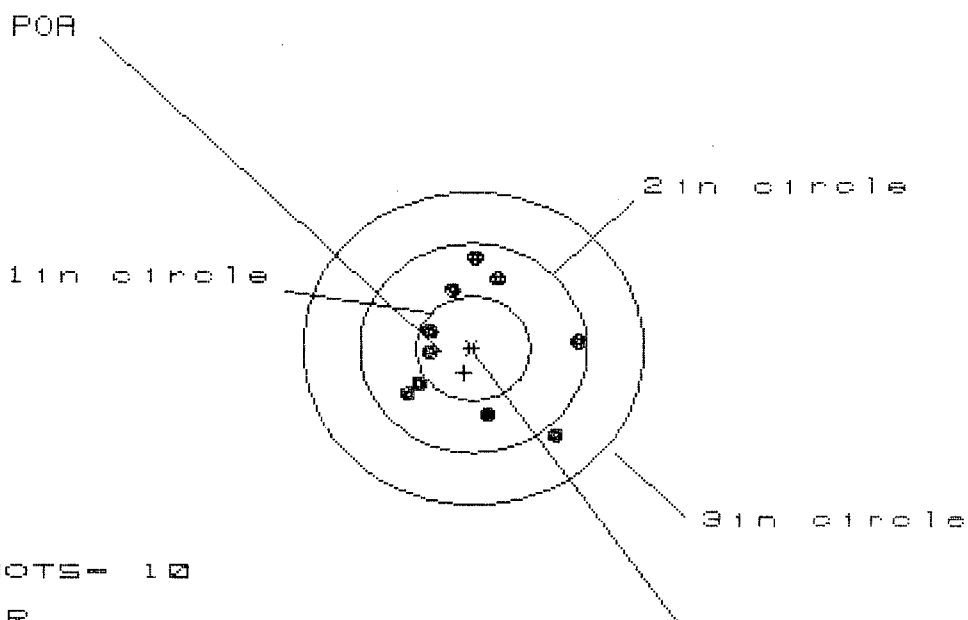
CENTROID \*

| PATTERN #                   | : | 1     | 9     | 8     |
|-----------------------------|---|-------|-------|-------|
| SHOTS (BEST OF)             | : | 10    | 9     | 8     |
| MAXIMUM X                   | : | .708  | .616  | .592  |
| MINIMUM X                   | : | -.823 | -.587 | -.611 |
| MAXIMUM Y                   | : | .893  | .950  | .485  |
| MINIMUM Y                   | : | -.738 | -.681 | -.562 |
| CENTROID X                  | : | .326  | .418  | .442  |
| CENTROID Y                  | : | .149  | .092  | -.027 |
| POA TO CENTROID in.         | : | .359  | .428  | .443  |
| MIN RADIUS                  | : | .224  | .238  | .271  |
| MEAN RADIUS                 | : | .613  | .564  | .512  |
| MAX RADIUS                  | : | .970  | .969  | .771  |
| HORIZONTAL SPREAD           | : | 1.531 | 1.203 | 1.203 |
| VERTICAL SPREAD             | : | 1.631 | 1.631 | 1.047 |
| EXTREME SPREAD              | : | 1.853 | 1.660 | 1.369 |
| NUMBER IN ONE INCH CIRCLE   | = | 4     |       |       |
| NUMBER IN TWO INCH CIRCLE   | = | 10    |       |       |
| NUMBER IN THREE INCH CIRCLE | = | 10    |       |       |

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# CENTERFIRE PATTERNS # 2



# OF SHOTS= 10

# IN CIR

1in = 2

2in = 9

3in = 10

HS= 1.484

VS= 1.683

GS= 1.825

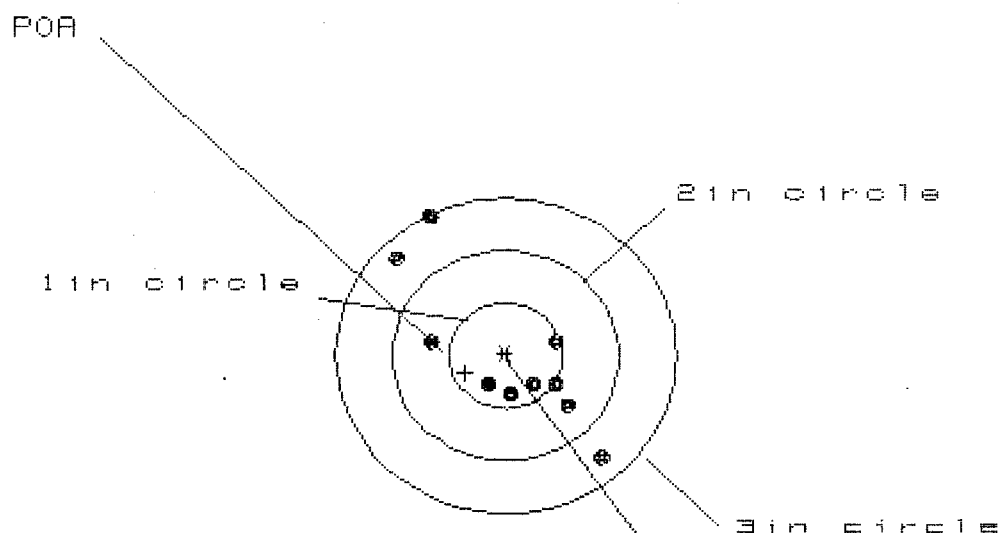
CENTROID #

| PATTERN #                   | : | 2     |       |       |
|-----------------------------|---|-------|-------|-------|
| SHOTS (BEST OF)             | : | 10    | 9     | 8     |
| MAXIMUM X                   | : | .923  | 1.003 | .384  |
| MINIMUM X                   | : | -.560 | -.481 | -.355 |
| MAXIMUM Y                   | : | .844  | .751  | .747  |
| MINIMUM Y                   | : | -.839 | -.754 | -.758 |
| CENTROID X                  | : | .078  | -.001 | -.127 |
| CENTROID Y                  | : | .231  | .324  | .328  |
| POA TO CENTROID in.         | : | .244  | .324  | .352  |
| MIN RADIUS                  | : | .420  | .342  | .226  |
| MEAN RADIUS                 | : | .698  | .628  | .551  |
| MAX RADIUS                  | : | 1.105 | 1.004 | .841  |
| HORIZONTAL SPREAD           | : | 1.484 | 1.484 | .739  |
| VERTICAL SPREAD             | : | 1.683 | 1.505 | 1.505 |
| EXTREME SPREAD              | : | 1.825 | 1.575 | 1.512 |
| NUMBER IN ONE INCH CIRCLE   | = |       | 2     |       |
| NUMBER IN TWO INCH CIRCLE   | = |       | 9     |       |
| NUMBER IN THREE INCH CIRCLE | = |       | 10    |       |

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# CENTERFIRE PATTERNS # 3



# OF SHOTS- 10

# IN CIR

1in = 5

2in = 7

3in = 9

HS= 1.796

VS= 2.307

GS= 2.733

CENTROID #

|                             |   |       |        |       |
|-----------------------------|---|-------|--------|-------|
| PATTERN #                   | : | 3     |        |       |
| SHOTS (BEST OF)             | : | 10    | 9      | 8     |
| MAXIMUM X                   | : | .810  | .737   | .604  |
| MINIMUM X                   | : | -.986 | -1.059 | -.823 |
| MAXIMUM Y                   | : | 1.365 | 1.118  | .431  |
| MINIMUM Y                   | : | -.942 | -.791  | -.651 |
| CENTROID X                  | : | .356  | .429   | .561  |
| CENTROID Y                  | : | .167  | .016   | -.124 |
| POA TO CENTROID in.         | : | .394  | .429   | .575  |
| MIN RADIUS                  | : | .321  | .180   | .036  |
| MEAN RADIUS                 | : | .744  | .602   | .437  |
| MAX RADIUS                  | : | 1.514 | 1.540  | .929  |
| HORIZONTAL SPREAD           | : | 1.796 | 1.796  | 1.427 |
| VERTICAL SPREAD             | : | 2.307 | 1.909  | 1.082 |
| EXTREME SPREAD              | : | 2.733 | 2.621  | 1.791 |
| NUMBER IN ONE INCH CIRCLE   | = |       | 5      |       |
| NUMBER IN TWO INCH CIRCLE   | = |       | 7      |       |
| NUMBER IN THREE INCH CIRCLE | = |       | 9      |       |

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# CENTERFIRE PATTERNS

# 4

POA

1 in circle

2 in circle

3 in circle

CENTROID \*

# OF SHOTS- 10

# IN CIR

1 in = 1

2 in = 5

3 in = 9

HS= 1.785

VS= 2.376

GS= 2.581

|                             |   |        |        |       |
|-----------------------------|---|--------|--------|-------|
| PATTERN #                   | : | 4      |        |       |
| SHOTS (BEST OF)             | : | 10     | 9      | 8     |
| MAXIMUM X                   | : | .926   | 1.016  | .970  |
| MINIMUM X                   | : | -.859  | -.769  | -.816 |
| MAXIMUM Y                   | : | 1.037  | .888   | .734  |
| MINIMUM Y                   | : | -1.339 | -1.233 | -.866 |
| CENTROID X                  | : | .436   | .346   | .393  |
| CENTROID Y                  | : | .018   | .167   | .321  |
| POA TO CENTROID in.         | : | .436   | .384   | .507  |
| MIN RADIUS                  | : | .487   | .572   | .435  |
| MEAN RADIUS                 | : | .950   | .862   | .782  |
| MAX RADIUS                  | : | 1.564  | 1.288  | 1.190 |
| HORIZONTAL SPREAD           | : | 1.785  | 1.785  | 1.785 |
| VERTICAL SPREAD             | : | 2.376  | 2.121  | 1.600 |
| EXTREME SPREAD              | : | 2.581  | 2.274  | 2.010 |
| NUMBER IN ONE INCH CIRCLE   | = |        | 1      |       |
| NUMBER IN TWO INCH CIRCLE   | = |        | 5      |       |
| NUMBER IN THREE INCH CIRCLE | = |        | 9      |       |

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# CENTERFIRE PATTERNS

# 5

POA

1in circle

2in circle

3in circle

CENTROID #

# OF SHOTS= 10

# IN CIR

1in = 2

2in = 5

3in = 10

HS= 2.295

VS= 2.748

GS= 2.776

|                             |   |        |        |        |
|-----------------------------|---|--------|--------|--------|
| PATTERN #                   | : | 5      |        |        |
| SHOTS (BEST OF)             | : | 10     | 9      | 8      |
| MAXIMUM X                   | : | 1.200  | 1.185  | 1.215  |
| MINIMUM X                   | : | -1.095 | -1.110 | -1.080 |
| MAXIMUM Y                   | : | 1.470  | .790   | .650   |
| MINIMUM Y                   | : | -1.278 | -1.114 | -.925  |
| CENTROID X                  | : | .144   | .159   | .129   |
| CENTROID Y                  | : | -.172  | -.336  | -.196  |
| POA TO CENTROID in.         | : | .224   | .372   | .235   |
| MIN RADIUS                  | : | .336   | .279   | .353   |
| MEAN RADIUS                 | : | .924   | .854   | .808   |
| MAX RADIUS                  | : | 1.477  | 1.323  | 1.226  |
| HORIZONTAL SPREAD           | : | 2.295  | 2.295  | 2.295  |
| VERTICAL SPREAD             | : | 2.748  | 1.904  | 1.575  |
| EXTREME SPREAD              | : | 2.776  | 2.392  | 2.392  |
| NUMBER IN ONE INCH CIRCLE   | = |        | 2      |        |
| NUMBER IN TWO INCH CIRCLE   | = |        | 5      |        |
| NUMBER IN THREE INCH CIRCLE | = |        | 10     |        |