

C6649059

MODEL 700™ M24

Model **SMS**™

Action

Barrel Length

Capacity

Order No. **5716**

\*Includes 1 in chamber.

*Remington*

*Smith*

**Remington**  
REG. U.S. PAT. & TM. OFF.

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

**MODEL 700<sup>TM</sup> H24**

**SERIAL NO.**  
C6649059

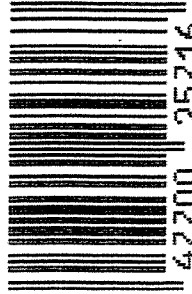
**ORDER NO.**  
**5716**

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



5716 C6649059

UPC



0 47700 25716 7

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6649059

| OP. #        | OP. NAME                                                       | READINGS | DATE       | INIT |
|--------------|----------------------------------------------------------------|----------|------------|------|
| 575 &<br>580 | Assemble Action<br>and Stock                                   | 6 25     | 9 1        | RW   |
| 600          | Proof                                                          | 6 25     | 9 1        | RW   |
| 607          | Check Headspace                                                | 6 25     | 9 1        | RW   |
| 610          | Dis-assemble Gun                                               | 6 25     | 9 1        | RW   |
| 612          | Magnaflux Barrel<br>Action                                     |          | JUL 1 1991 | KR   |
|              | Magnaflux Bolt                                                 |          | JUL 1 1991 | KR   |
| 615          | Rollmark Caliber                                               |          | JUL 1 1991 | YG   |
| 617          | Drill and Tap Sight Holes                                      |          | JUL 1 1991 | LB   |
| 618          | Polish Barrel                                                  |          | JUL 2 1991 | LB   |
| 620          | Apply Coatings<br>(Barrel Action)                              |          | 8/27/91    | TH   |
|              | Apply Coating (Bolt)                                           |          |            |      |
| 625          | Final Assembly                                                 |          |            |      |
|              | A) Clean inside of<br>Bolt Assembly                            |          | 8/29/91    | RW   |
|              | B) Inspect Rear Firing<br>Pin Hole for Chamfer<br>in Bolt Head |          | 8/29/91    | RW   |
|              | C) Inspect Ejector Hole<br>for Chamfer                         |          | 8/29/91    | RW   |
|              | D) Oil Firing Pin Ass'y                                        |          | 8/29/91    | RW   |
|              | E) Adjust Trigger Pull to<br>Min Setting and Stake             |          | 9/6/91     | DH   |

| op. #        | BARBER - M24 0031176                                        | READINGS |      |       |      |      | DATE    | INIT |
|--------------|-------------------------------------------------------------|----------|------|-------|------|------|---------|------|
| 625<br>cont. | F) Safety On Force                                          | 6        | 6    | 6     |      |      | 9-6-91  | DH   |
|              | G) Safety Off Force                                         | 3        | 3    | 2 3/4 |      |      | 9-6-91  | DH   |
|              | H) Trigger Pull Test & Retainability                        |          |      |       |      |      | 9-6-91  | DH   |
|              | I) Firing Pin Indent                                        | 1020     | 1020 | 1021  |      |      | 9-6-91  | DH   |
|              | J) Assemble Stock                                           |          |      |       |      |      | 9/6/91  | RW   |
|              | K) Assemble Swivel Studs                                    |          |      |       |      |      | 9-11-91 | DH   |
|              | L) Attach Front and Rear Sight Assemblies                   |          |      |       |      |      | 9/11/91 | RW   |
|              | M) Iron Sight Alignment                                     |          |      |       |      |      | 9/11/91 | RW   |
|              | N) Detach Front & Rear Sights & place in numbered container |          |      |       |      |      | 9/11/91 | RW   |
|              | O) Attach Scope to Rifle                                    |          |      |       |      |      | 9/11/91 | RW   |
|              | P) Detach & Attach Scope 20 Times                           |          |      |       |      |      | 9/11/91 | RW   |
| 640          | Gallery Target & Test                                       |          |      |       |      |      | 9-11-91 | AF   |
|              | A) Time                                                     |          |      |       |      |      | "       | AF   |
|              | B) Malfunctions                                             |          |      |       |      |      | "       | AF   |
|              | C) Pierced Primers                                          |          |      |       |      |      | "       | AF   |
|              | D) Optical Clarity of Scope                                 |          |      |       |      |      | "       | AF   |
| 645          | Inspect for Live Ammo                                       |          |      |       |      |      | 9-11-91 | AF   |
| 655          | Final Inspection                                            |          |      |       |      |      |         |      |
|              | A) Headspace                                                |          |      |       |      |      | 9-12-91 | DH   |
|              | B) Trigger Pull                                             | 2.32     | 2.24 | 2.40  | 2.36 | 2.22 | 9-12-91 | JCP  |
|              | C) Function                                                 |          |      |       |      |      | 9-12-91 | DH   |
| 660          | Pack                                                        |          |      |       |      |      | 9-11-91 | AF   |

AVERAGE PULL FORCE BETWEEN  
INITIAL & CYCLE TESTS

2.50# ± .50#

3.00# ± .75#

4.00# ± 1.00#

SERIAL NO. C6649059

DATE 9-6-91

TESTER DH

|         | 2.50#<br>INITIAL | 2.50# AFTER<br>50 CYCLES | FINAL TEST &<br>TO RESET 2.50# |      | COMMENTS                                                               |
|---------|------------------|--------------------------|--------------------------------|------|------------------------------------------------------------------------|
| PULL #1 | 2.57             | 2.36                     | 2.65                           | 2.32 | MIN. SETTING,<br>NO AVG. OF 5<br>READINGS ACCEPT-<br>ABLE LESS THAN 2# |
| PULL #2 | 2.38             | 2.35                     | 2.69                           | 2.24 |                                                                        |
| PULL #3 | 2.30             | 2.32                     | 2.62                           | 2.40 |                                                                        |
| PULL #4 | 2.46             | 2.36                     | 2.70                           | 2.36 |                                                                        |
| PULL #5 | 2.35             | 2.27                     | 2.71                           | 2.22 |                                                                        |
| TOTAL   |                  |                          |                                |      |                                                                        |
| AVG.    |                  |                          |                                |      |                                                                        |

|         | 3.00#<br>INITIAL | 3.00# AFTER<br>20 CYCLES |  | COMMENTS |
|---------|------------------|--------------------------|--|----------|
| PULL #1 | 3.16             | 3.41                     |  |          |
| PULL #2 | 3.24             | 3.32                     |  |          |
| PULL #3 | 3.26             | 3.35                     |  |          |
| PULL #4 | 3.27             | 3.32                     |  |          |
| PULL #5 | 3.28             | 3.39                     |  |          |
| TOTAL   |                  |                          |  |          |
| AVG.    |                  |                          |  |          |

|         | 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 | 4.07             | 4.38                     |                                | 4.06                                 |
| PULL #2 | 4.12             | 4.18                     |                                | 4.04                                 |
| PULL #3 | 4.10             | 4.15                     |                                | 4.00                                 |
| PULL #4 | 4.15             | 4.08                     |                                | 3.98                                 |
| PULL #5 | 4.17             | 4.10                     |                                | 4.03                                 |
| TOTAL   |                  |                          |                                |                                      |
| AVG.    |                  |                          |                                |                                      |

CENTROIDAL DISTANCE CALCULATIONS  
FOR RIFLE # C6649859  
12 Sep 1991

CENTROIDAL DISTANCES

|      |   |         |
|------|---|---------|
| 0 TO | 1 | .138636 |
| 1 TO | 2 | .201556 |
| 1 TO | 3 | .249616 |
| 1 TO | 4 | .117346 |
| 1 TO | 5 | .239266 |

←-----POA

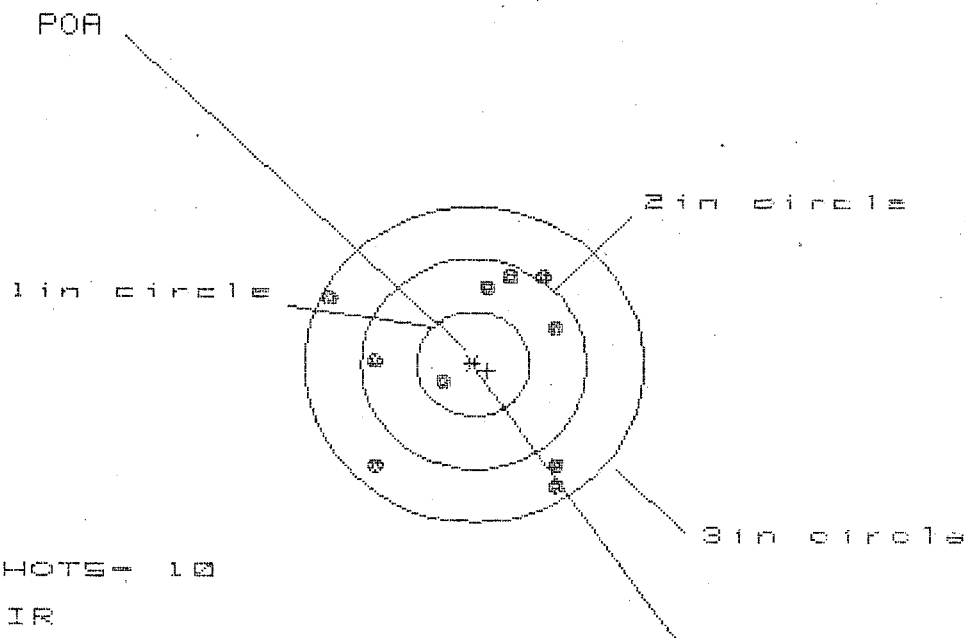
THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.0208  
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.0466  
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .0510314

THE AMR FOR THIS RIFLE IS: 1.148

11 Sep 1991

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## CENTERFIRE PATTERNS # 1



# OF SHOTS= 10

# IN CIR

1 in = 1

2 in = 5

3 in = 10

HS= 2.060

VS= 2.034

GS= 2.760

CENTROID \*

| PATTERN #                     | 1      | 2      | 3      |
|-------------------------------|--------|--------|--------|
| SHOTS (BEST OF)               | 10     | 9      | 8      |
| MAXIMUM X                     | .765   | .622   | .698   |
| MINIMUM X                     | -1.294 | -1.066 | -.990  |
| MAXIMUM Y                     | .829   | .900   | .759   |
| MINIMUM Y                     | -1.205 | -1.134 | -1.061 |
| CENTROID X                    | -.124  | .019   | -.057  |
| CENTROID Y                    | .062   | -.009  | .132   |
| POA TO CENTROID in.           | .139   | .021   | .144   |
| MIN RADIUS                    | .307   | .399   | .404   |
| MEAN RADIUS                   | 1.004  | .953   | .887   |
| MAX RADIUS                    | 1.447  | 1.370  | 1.417  |
| HORIZONTAL SPREAD             | 2.060  | 1.688  | 1.688  |
| VERTICAL SPREAD               | 2.034  | 2.034  | 1.820  |
| EXTREME SPREAD                | 2.760  | 2.354  | 2.354  |
| NUMBER IN ONE INCH CIRCLE =   | 1      |        |        |
| NUMBER IN TWO INCH CIRCLE =   | 5      |        |        |
| NUMBER IN THREE INCH CIRCLE = | 10     |        |        |

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## CENTERFIRE PATTERNS # 2

POA

1in circle

2in circle

3in circle

# OF SHOTS- 10

# IN CIR

1in = 2

2in = 5

3in = 9

CENTROID \*

HS= 1.977

VS= 2.707

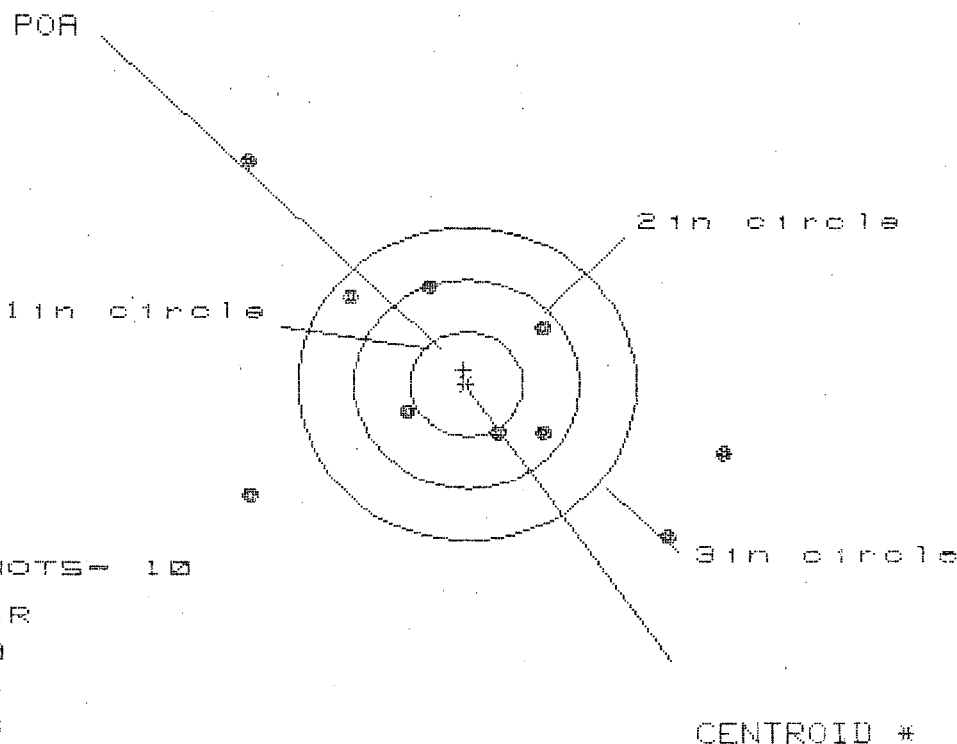
GS= 2.935

| PATTERN #                   | : | 2      |        |        |
|-----------------------------|---|--------|--------|--------|
| SHOTS (BEST OF)             | : | 10     | 9      | 8      |
| MAXIMUM X                   | : | 1.214  | 1.149  | 1.046  |
| MINIMUM X                   | : | -.763  | -.828  | -.670  |
| MAXIMUM Y                   | : | .966   | .773   | .599   |
| MINIMUM Y                   | : | -1.740 | -1.391 | -1.018 |
| CENTROID X                  | : | .061   | .126   | .229   |
| CENTROID Y                  | : | -.018  | .175   | .349   |
| POA TO CENTROID in.         | : | .064   | .215   | .417   |
| MIN RADIUS                  | : | .401   | .273   | .161   |
| MEAN RADIUS                 | : | .983   | .845   | .709   |
| MAX RADIUS                  | : | 1.835  | 1.618  | 1.108  |
| HORIZONTAL SPREAD           | : | 1.977  | 1.977  | 1.716  |
| VERTICAL SPREAD             | : | 2.707  | 2.164  | 1.617  |
| EXTREME SPREAD              | : | 2.935  | 2.548  | 1.960  |
| NUMBER IN ONE INCH CIRCLE   | = |        | 2      |        |
| NUMBER IN TWO INCH CIRCLE   | = |        | 5      |        |
| NUMBER IN THREE INCH CIRCLE | = |        | 9      |        |

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## CENTERFIRE PATTERNS # 3



# OF SHOTS = 10

# IN CIR

1in = 0

2in = 4

3in = 6

HS = 4.240

VS = 3.590

GS = 5.109

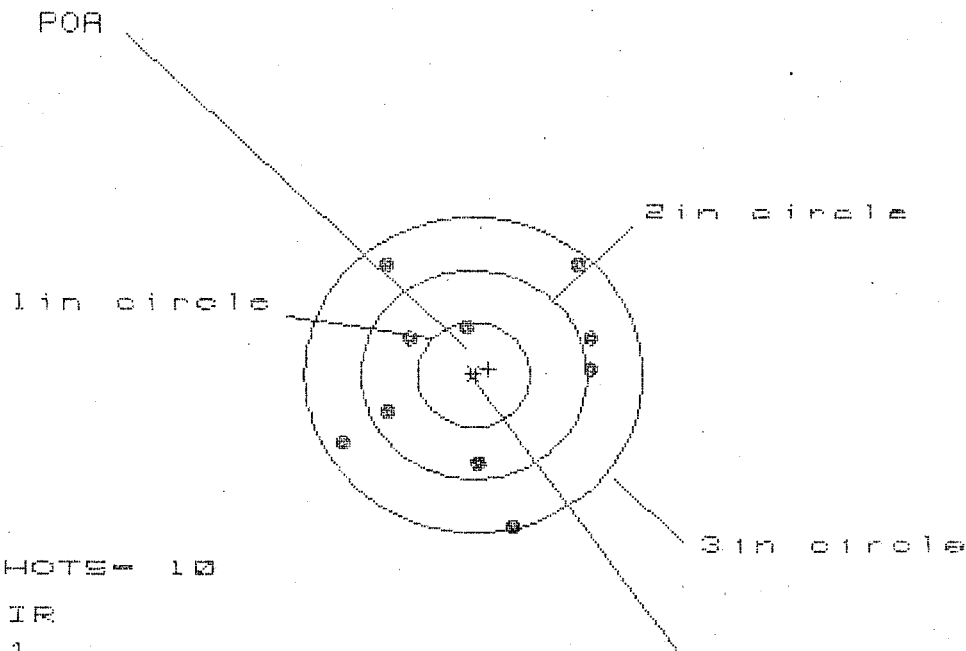
CENTROID #

| PATTERN #                   | : | 3      |        |        |
|-----------------------------|---|--------|--------|--------|
| SHOTS (BEST OF)             | : | 10     | 9      | 8      |
| MAXIMUM X                   | : | 2.307  | 2.098  | 1.807  |
| MINIMUM X                   | : | -1.940 | -2.150 | -1.887 |
| MAXIMUM Y                   | : | 2.106  | 1.208  | 1.158  |
| MINIMUM Y                   | : | -1.484 | -1.250 | -1.300 |
| CENTROID X                  | : | .028   | .238   | -.025  |
| CENTROID Y                  | : | -.136  | -.370  | -.320  |
| POA TO CENTROID in.         | : | .139   | .440   | .321   |
| MIN RADIUS                  | : | .537   | .256   | .412   |
| MEAN RADIUS                 | : | 1.487  | 1.305  | 1.197  |
| MAX RADIUS                  | : | 2.824  | 2.314  | 2.226  |
| HORIZONTAL SPREAD           | : | 4.248  | 4.248  | 3.694  |
| VERTICAL SPREAD             | : | 3.590  | 2.458  | 2.458  |
| EXTREME SPREAD              | : | 5.109  | 4.272  | 3.715  |
| NUMBER IN ONE INCH CIRCLE   | = |        | 0      |        |
| NUMBER IN TWO INCH CIRCLE   | = |        | 4      |        |
| NUMBER IN THREE INCH CIRCLE | = |        | 6      |        |

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## CENTERFIRE PATTERNS # 4



# OF SHOTS- 10

# IN CIR

1 in = 1

2 in = 5

3 in = 10

HS= 2.219

VS= 2.463

GS= 2.703

CENTROID \*

| PATTERN #                   | : | 4      |        |        |
|-----------------------------|---|--------|--------|--------|
| SHOTS (BEST OF)             | : | 10     | 9      | 8      |
| MAXIMUM X                   | : | 1.027  | 1.062  | 1.181  |
| MINIMUM X                   | : | -1.192 | -1.157 | -1.038 |
| MAXIMUM Y                   | : | 1.038  | .880   | .979   |
| MINIMUM Y                   | : | -1.425 | -.954  | -.845  |
| CENTROID X                  | : | -.133  | -.168  | -.287  |
| CENTROID Y                  | : | -.055  | .103   | -.006  |
| POA TO CENTROID in.         | : | .144   | .198   | .287   |
| MIN RADIUS                  | : | .485   | .326   | .452   |
| MEAN RADIUS                 | : | 1.033  | .965   | .914   |
| MAX RADIUS                  | : | 1.461  | 1.414  | 1.254  |
| HORIZONTAL SPREAD           | : | 2.219  | 2.219  | 2.219  |
| VERTICAL SPREAD             | : | 2.463  | 1.834  | 1.824  |
| EXTREME SPREAD              | : | 2.703  | 2.703  | 2.431  |
| NUMBER IN ONE INCH CIRCLE   | = |        | 1      |        |
| NUMBER IN TWO INCH CIRCLE   | = |        | 5      |        |
| NUMBER IN THREE INCH CIRCLE | = |        | 10     |        |

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## CENTERFIRE PATTERNS # 5

POA

1in circle

2in circle

3in circle

# OF SHOTS = 10

# IN CIR

1in = 1

2in = 5

3in = 7

HS = 3.999

VS = 2.253

GS = 4.004

CENTROID #

| PATTERN #                     | 5      | 9      | 8      |
|-------------------------------|--------|--------|--------|
| SHOTS (BEST OF)               | 10     | 9      | 8      |
| MAXIMUM X                     | 2.316  | 2.185  | 1.326  |
| MINIMUM X                     | -1.683 | -1.426 | -1.153 |
| MAXIMUM Y                     | 1.168  | 1.069  | 1.132  |
| MINIMUM Y                     | -1.085 | -1.184 | -1.121 |
| CENTROID X                    | .064   | -.193  | -.466  |
| CENTROID Y                    | -.086  | .013   | -.050  |
| POA TO CENTROID in.           | .107   | .193   | .469   |
| MIN RADIUS                    | .361   | .227   | .232   |
| MEAN RADIUS                   | 1.233  | 1.014  | .813   |
| MAX RADIUS                    | 2.482  | 2.242  | 1.608  |
| HORIZONTAL SPREAD             | 3.999  | 3.611  | 2.479  |
| VERTICAL SPREAD               | 2.253  | 2.253  | 2.253  |
| EXTREME SPREAD                | 4.004  | 3.986  | 2.883  |
| NUMBER IN ONE INCH CIRCLE =   | 1      |        |        |
| NUMBER IN TWO INCH CIRCLE =   | 6      |        |        |
| NUMBER IN THREE INCH CIRCLE = | 7      |        |        |