

C6611655

MODEL 700™ M24

Model **SMS**™

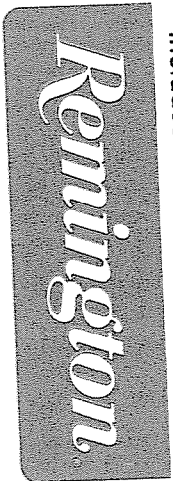
Action

Barrel Length

Capacity

Order No. **5716**

\* Includes 1 in chamber.



**Remington**<sup>®</sup>

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

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

**MODEL 700<sup>TM</sup> M24**

**SERIAL NO.**  
C6611655

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

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

20



5716 C6611655



CONTRACT # DAAA21-87-C-0086

GUN SERIAL #

C 6611655

| OP. #     | OP. NAME                                                 | READINGS | DATE    | INIT |
|-----------|----------------------------------------------------------|----------|---------|------|
| 575 & 580 | Assemble Action and Stock                                |          | 1/25/91 | KS   |
| 600       | Proof                                                    |          | 1/15/91 | KS   |
| 607       | Check Headspace                                          |          | 1/15/91 | KS   |
| 610       | Dis-assemble Gun                                         |          | 1/14/91 | KS   |
| 612       | Magnaflux Barrel Action                                  | 1 18     | 91      | KR   |
|           | Magnaflux Bolt                                           | 1 18     | 91      | KR   |
| 615       | Rollmark Caliber                                         | 1 18     | 91      | YB   |
| 617       | Drill and Tap Sight Holes                                | 1 24     | 91      | LB   |
| 618       | Polish Barrel                                            | 1 24     | 91      | WB   |
| 620       | Apply Coatings (Barrel Action)                           |          | 1-15-91 | HA   |
|           | Apply Coating (Bolt)                                     |          |         | HA   |
| 625       | Final Assembly<br>A) Clean inside of Bolt Assembly       |          | 3/8/91  | KA   |
|           | B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head |          | 3/8/91  | KA   |
|           | C) Inspect Ejector Hole for Chamfer                      |          | 3/8/91  | KA   |
|           | D) Oil Firing Pin Ass'y                                  |          | 3/8/91  | KA   |
|           | E) Adjust Trigger Pull to Min Setting and Stake          |          | 3-22-91 | RW   |

| op. #        | BARBER - M24 0033843<br>OP. NAME                            | READINGS                 |       |       |      |      | DATE    | INIT |
|--------------|-------------------------------------------------------------|--------------------------|-------|-------|------|------|---------|------|
| 625<br>cont. | F) Safety On Force                                          | 4                        | 4     | 4     |      |      | 3-22-91 | KS   |
|              | G) Safety Off Force                                         | 2 1/4                    | 2 1/2 | 2 1/4 |      |      | 3-22-91 | KS   |
|              | H) Trigger Pull Test & Retainability                        |                          |       |       |      |      | 3-22-91 | RW   |
|              | I) Firing Pin Indent                                        | <del>.025</del><br>.0255 | .021  | .021  |      |      | 3-22-91 | KS.  |
|              | J) Assemble Stock                                           |                          |       |       |      |      | 3/25/91 | KS   |
|              | K) Assemble Swivel Studs                                    |                          |       |       |      |      | 4-8-91  | NH   |
|              | L) Attach Front and Rear Sight Assemblies                   |                          |       |       |      |      | 3/25/91 | KS   |
|              | M) Iron Sight Alignment                                     |                          |       |       |      |      | 3/25/91 | KS   |
|              | N) Detach Front & Rear Sights & place in numbered container |                          |       |       |      |      | 3/25/91 | KS   |
|              | O) Attach Scope to Rifle                                    |                          |       |       |      |      | 3/25/91 | KS   |
|              | P) Detach & Attach Scope 20 Times                           |                          |       |       |      |      | 3/25/91 | KS   |
| 640          | Gallery Target & Test                                       |                          |       |       |      |      | 4/4/91  | KJ   |
|              | A) Time                                                     |                          |       |       |      |      | 4/4/91  | KJ   |
|              | B) Malfunctions                                             |                          |       |       |      |      | 4/4/91  | KJ   |
|              | C) Pierced Primers                                          |                          |       |       |      |      | 4/4/91  | KJ   |
|              | D) Optical Clarity of Scope                                 |                          |       |       |      |      | 4/4/91  | KJ   |
| 645          | Inspect for Live Ammo                                       |                          |       |       |      |      | 4/4/91  | KJ   |
| 655          | Final Inspection                                            |                          |       |       |      |      | 4-8-91  | NH   |
|              | A) Headspace                                                |                          |       |       |      |      | 4-8-91  | NH   |
|              | B) Trigger Pull                                             | 2.26                     | 2.40  | 2.39  | 2.45 | 2.43 | 4/5/91  | OK   |
|              | C) Function                                                 |                          |       |       |      |      | 4-8-91  | NH   |
| 660          | Pack                                                        |                          |       |       |      |      | 6-17-91 | NF   |

AVERAGE PULL FORCE BETWEEN  
INITIAL & CYCLE TESTS

2.50# ± .50#

3.00# ± .75#

4.00# ± 1.00#

SERIAL NO. C6611655

DATE 3/22/91

TESTER Rw

|         | 2.50#<br>INITIAL | 2.50# AFTER<br>50 CYCLES | FINAL TEST &<br>TO RESET 2.50# |      | COMMENTS                                                               |
|---------|------------------|--------------------------|--------------------------------|------|------------------------------------------------------------------------|
| PULL #1 | 2.38             | 2.59                     | 2.54                           | 2.26 | MIN. SETTING,<br>NO AVG. OF 5<br>READINGS ACCEPT-<br>ABLE LESS THAN 2# |
| PULL #2 | 2.32             | 2.49                     | 2.41                           | 2.40 |                                                                        |
| PULL #3 | 2.27             | 2.48                     | 2.52                           | 2.39 |                                                                        |
| PULL #4 | 2.29             | 2.49                     | 2.51                           | 2.45 |                                                                        |
| PULL #5 | 2.19             | 2.49                     | 2.61                           | 2.43 |                                                                        |
| TOTAL   | 11.45            | 12.54                    | 12.57                          |      |                                                                        |
| AVG.    | 2.29             | 2.51                     | 2.51                           |      |                                                                        |

|         | 3.00#<br>INITIAL | 3.00# AFTER<br>20 CYCLES |  | COMMENTS |
|---------|------------------|--------------------------|--|----------|
| PULL #1 | 3.20             | 3.17                     |  |          |
| PULL #2 | 3.05             | 3.32                     |  |          |
| PULL #3 | 3.06             | 3.21                     |  |          |
| PULL #4 | 3.11             | 3.30                     |  |          |
| PULL #5 | 3.19             | 3.42                     |  |          |
| TOTAL   | 15.61            | 16.42                    |  |          |
| AVG.    | 3.12             | 3.28                     |  |          |

|         | 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 | 4.04             | 4.03                     |                                | 4.10                                 |
| PULL #2 | 4.21             | 4.23                     |                                | 4.04                                 |
| PULL #3 | 4.12             | 4.28                     |                                | 4.22                                 |
| PULL #4 | 4.22             | 4.42                     |                                | 4.39                                 |
| PULL #5 | 4.26             | 4.11                     |                                | 4.44                                 |
| TOTAL   | 20.85            | 21.07                    |                                | 21.19                                |
| AVG.    | 4.17             | 4.22                     |                                | 4.24                                 |

CENTROIDAL DISTANCE CALCULATIONS  
FOR RIFLE # C6611655  
5 Apr 1991

CENTROIDAL DISTANCES

|      |   |         |
|------|---|---------|
| 0 TO | 1 | .2449   |
| 1 TO | 2 | .263471 |
| 1 TO | 3 | .461532 |
| 1 TO | 4 | .239376 |
| 1 TO | 5 | .463228 |

POI <----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .0194  
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .0418  
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .0460825  
THE AMP FOR THIS RIFLE IS: .7026

4 Apr 1991

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## CENTERFIRE PATTERNS

# 1

POA

1in circle

2in circle

3in circle

CENTROID #

# OF SHOTS- 10

# IN CIR

1in = 3

2in = 6

3in = 9

HS= 2.370

VS= 2.406

GS= 2.879

| PATTERN #                   | : | 10     | 9      | 8     |
|-----------------------------|---|--------|--------|-------|
| SHOTS (BEST OF)             | : | 10     | 9      | 8     |
| MAXIMUM X                   | : | 1.420  | .627   | .687  |
| MINIMUM X                   | : | -.950  | -.792  | -.732 |
| MAXIMUM Y                   | : | 1.086  | .939   | .738  |
| MINIMUM Y                   | : | -1.320 | -1.108 | -.991 |
| CENTROID X                  | : | .126   | -.032  | -.092 |
| CENTROID Y                  | : | -.210  | -.063  | -.180 |
| POA TO CENTROID in.         | : | .244   | .071   | .202  |
| MIN RADIUS                  | : | .334   | .305   | .208  |
| MEAN RADIUS                 | : | .824   | .668   | .607  |
| MAX RADIUS                  | : | 1.939  | 1.140  | 1.013 |
| HORIZONTAL SPREAD           | : | 2.370  | 1.419  | 1.419 |
| VERTICAL SPREAD             | : | 2.406  | 2.047  | 1.729 |
| EXTREME SPREAD              | : | 2.879  | 2.179  | 1.816 |
| NUMBER IN ONE INCH CIRCLE   | = |        | 3      |       |
| NUMBER IN TWO INCH CIRCLE   | = |        | 6      |       |
| NUMBER IN THREE INCH CIRCLE | = |        | 9      |       |

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## CENTERFIRE PATTERNS # 2

POA

1in circle

2in circle

3in circle

# OF SHOTS= 10

# IN CIR

1in = 3

2in = 8

3in = 10

HS= 1.639

VS= 1.772

GS= 2.230

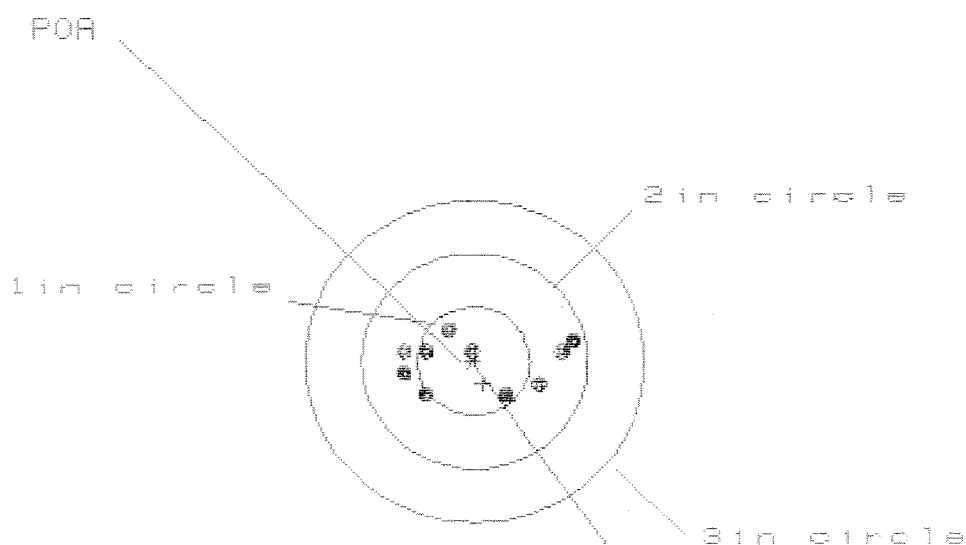
CENTROID \*

| PATTERN #                   | : | 2      |       |       |
|-----------------------------|---|--------|-------|-------|
| SHOTS (BEST OF)             | : | 10     | 9     | 8     |
| MAXIMUM X                   | : | .982   | 1.001 | .955  |
| MINIMUM X                   | : | -.737  | -.638 | -.684 |
| MAXIMUM Y                   | : | .753   | .422  | .305  |
| MINIMUM Y                   | : | -1.019 | -.935 | -.579 |
| CENTROID X                  | : | .090   | -.009 | .037  |
| CENTROID Y                  | : | .051   | -.033 | .084  |
| POA TO CENTROID in.         | : | .103   | .034  | .092  |
| MIN RADIUS                  | : | .155   | .042  | .163  |
| MEAN RADIUS                 | : | .693   | .629  | .578  |
| MAX RADIUS                  | : | 1.166  | 1.065 | .987  |
| HORIZONTAL SPREAD           | : | 1.639  | 1.639 | 1.639 |
| VERTICAL SPREAD             | : | 1.772  | 1.357 | .884  |
| EXTREME SPREAD              | : | 2.230  | 1.885 | 1.835 |
| NUMBER IN ONE INCH CIRCLE   | = |        | 3     |       |
| NUMBER IN TWO INCH CIRCLE   | = |        | 8     |       |
| NUMBER IN THREE INCH CIRCLE | = |        | 10    |       |

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## CENTERFIRE PATTERNS # 3



# OF SHOTS- 10

# IN CIR

1in = 4

2in = 10

3in = 10

HS= 1.529

VS= .659

GS= 1.565

CENTROID #

| PATTERN #                   | : | 3     |       |       |
|-----------------------------|---|-------|-------|-------|
| SHOTS (BEST OF)             | : | 10    | 9     | 8     |
| MAXIMUM X                   | : | .883  | .859  | .733  |
| MINIMUM X                   | : | -.646 | -.548 | -.441 |
| MAXIMUM Y                   | : | .341  | .364  | .376  |
| MINIMUM Y                   | : | -.319 | -.295 | -.283 |
| CENTROID X                  | : | -.078 | -.176 | -.283 |
| CENTROID Y                  | : | .204  | .181  | .169  |
| POA TO CENTROID in.         | : | .219  | .252  | .330  |
| MIN RADIUS                  | : | .103  | .129  | .207  |
| MEAN RADIUS                 | : | .548  | .494  | .432  |
| MAX RADIUS                  | : | .907  | .864  | .746  |
| HORIZONTAL SPREAD           | : | 1.529 | 1.407 | 1.174 |
| VERTICAL SPREAD             | : | .659  | .659  | .659  |
| EXTREME SPREAD              | : | 1.565 | 1.421 | 1.196 |
| NUMBER IN ONE INCH CIRCLE   | = |       | 4     |       |
| NUMBER IN TWO INCH CIRCLE   | = |       | 10    |       |
| NUMBER IN THREE INCH CIRCLE | = |       | 10    |       |

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## CENTERFIRE PATTERNS # 4

POA

1in circle

2in circle

3in circle

# OF SHOTS= 10

# IN CIR

1in = 2

2in = 10

3in = 10

HS= 1.460

VS= 1.542

GS= 1.702

CENTROID #

| PATTERN #                   | : | 4     |       |       |
|-----------------------------|---|-------|-------|-------|
| SHOTS (BEST OF)             | : | 10    | 9     | 8     |
| MAXIMUM X                   | : | .738  | .781  | .696  |
| MINIMUM X                   | : | -.723 | -.679 | -.682 |
| MAXIMUM Y                   | : | .729  | .639  | .687  |
| MINIMUM Y                   | : | -.813 | -.600 | -.552 |
| CENTROID X                  | : | -.075 | -.118 | -.033 |
| CENTROID Y                  | : | -.080 | .010  | -.038 |
| POA TO CENTROID in.         | : | .109  | .118  | .050  |
| MIN RADIUS                  | : | .407  | .389  | .466  |
| MEAN RADIUS                 | : | .684  | .655  | .636  |
| MAX RADIUS                  | : | .902  | .801  | .794  |
| HORIZONTAL SPREAD           | : | 1.460 | 1.460 | 1.378 |
| VERTICAL SPREAD             | : | 1.542 | 1.239 | 1.239 |
| EXTREME SPREAD              | : | 1.702 | 1.560 | 1.466 |
| NUMBER IN ONE INCH CIRCLE   | = |       | 2     |       |
| NUMBER IN TWO INCH CIRCLE   | = |       | 10    |       |
| NUMBER IN THREE INCH CIRCLE | = |       | 10    |       |

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## CENTERFIRE PATTERNS # 5

POR

1 in circle

2 in circle

3 in circle

# OF SHOTS= 10

# IN CIR

1 in = 2

2 in = 7

3 in = 10

HS= 1.716

VS= 1.872

GS= 2.281

CENTROID #

| PATTERN #                     | 5      | 9     | 8     |
|-------------------------------|--------|-------|-------|
| SHOTS (BEST OF)               | 10     | 9     | 8     |
| MAXIMUM X                     | .948   | 1.032 | 1.113 |
| MINIMUM X                     | -.768  | -.684 | -.603 |
| MAXIMUM Y                     | .861   | .749  | .774  |
| MINIMUM Y                     | -1.011 | -.877 | -.784 |
| CENTROID X                    | .034   | -.050 | -.131 |
| CENTROID Y                    | .244   | .356  | .263  |
| POR TO CENTROID in.           | .246   | .360  | .293  |
| MIN RADIUS                    | .163   | .023  | .137  |
| MEAN RADIUS                   | .764   | .679  | .632  |
| MAX RADIUS                    | 1.266  | 1.115 | 1.160 |
| HORIZONTAL SPREAD             | 1.716  | 1.716 | 1.716 |
| VERTICAL SPREAD               | 1.872  | 1.626 | 1.558 |
| EXTREME SPREAD                | 2.281  | 1.928 | 1.928 |
| NUMBER IN ONE INCH CIRCLE =   | 2      |       |       |
| NUMBER IN TWO INCH CIRCLE =   | 7      |       |       |
| NUMBER IN THREE INCH CIRCLE = | 10     |       |       |