

676738632  
Replaces  
C622-5331

## Arms Services Repair &amp; Estimate System

File Add Repair Estimate Repair Expedite Repair Inquiry Repair Tools CSR Tools Reports Table Maintenance System Maintenance Help

## Repair Inquiry

Repair Number: RE00147673

Serial: C6225331 Model M24 SWS Center Fire  
Caliber: 7.62 NATO

Repairman:

Verify Repair

Status:

Closed 7/17/2008 6:23:08 AM

## Address Information

Customer:

Received From

Return To:

Received From

Name: PBO 1/75 RANGER REGIMENT

PBO 1/75 RANGER REGIMENT

Address 1: ATTN: WD1 CURTIS B MATHIS

ATTN: WD1 CURTIS B MATHIS

Address 2: 1036 LIBERATOR RD

PO Box:

1036 LIBERATOR RD

PO Box:

City: HUNTER AAF

HUNTER AAF

State: GA

Zip Code: 31409

Country: US

State: GA

Zip Code: 31409

Country: US

FFL:

## Contact / Condition

Problems

Estimate

History / Status

Shipping / Billing

## Contact Information

Phone: NN

Fax:

Email:

Comments:

## Received Condition

Fair

Condition

Notes:

CSR

Notes:

## Accessories Received

| Code | Desc                  | Qty |
|------|-----------------------|-----|
| A007 | With Stud             | 3   |
| A017 | Scope Base            | 1   |
| A057 | Fit and Rear Sgt Base | 1   |

Repair Search

Refresh

Close

nagletj

7/17/2008

8:09 AM

C&amp;PS

NUM

INS

SCRL

start

10 Micro...

Excite Mail...

8 Micros...

Arms Servi...

Part Searc...

8:09 AM

G 673 8632 New

Number: ~~C6225331~~

Model: M24 SWS



RE00147673

Reset

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: G6738632.\_\_\_0  
FILE DATE AND TIME: 10/17/2008 05:25

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

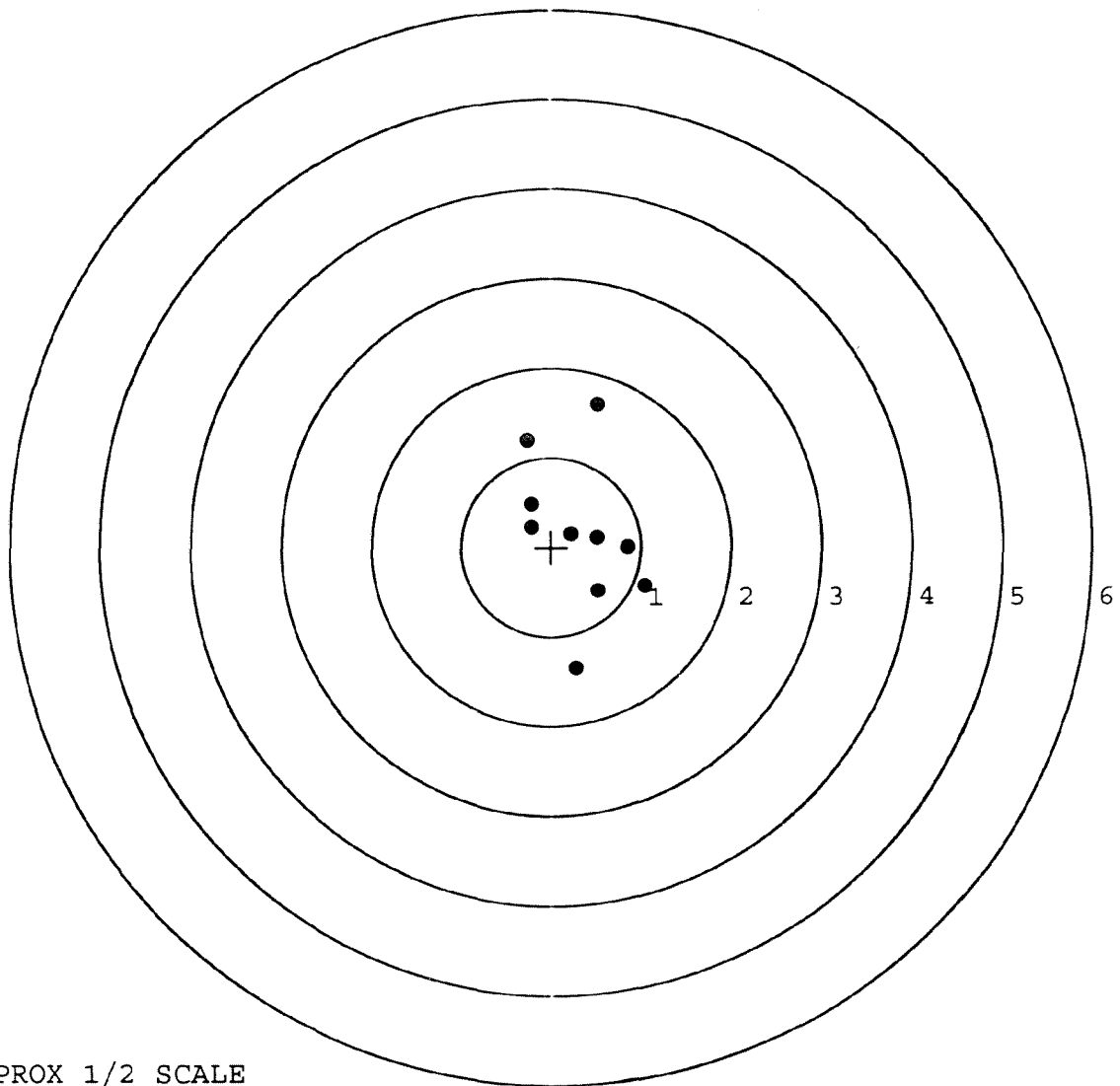
|                                                             |        |
|-------------------------------------------------------------|--------|
| The Average X Centroid of the Five Target Set:              | 0.180  |
| The Average Y Centroid of the Five Target Set:              | -0.138 |
| The Average Point of Impact of the Five Target Set:         | 0.227  |
| The Average Mean Radius of the Five Target Set:             | 0.631  |
| The Distance from POA to Centroid Target #1:                | 0.356  |
| The Distance from Centroid Target #2 to Centroid Target #1: | 0.341  |
| The Distance from Centroid Target #3 to Centroid Target #1: | 0.333  |
| The Distance from Centroid Target #4 to Centroid Target #1: | 0.316  |
| The Distance from Centroid Target #5 to Centroid Target #1: | 0.698  |

**BARBER - M24 0001354**

SERIAL NUMBER: G6738632. \_\_0  
 TARGET NUMBER: 1  
 FILE DATE: 10/17/2008  
 FILE TIME: 05:25

| POINT# | X      | Y      |
|--------|--------|--------|
| 1:     | 0.522  | 1.587  |
| 2:     | -0.261 | 1.190  |
| 3:     | 0.280  | -1.360 |
| 4:     | 0.524  | -0.489 |
| 5:     | 1.043  | -0.431 |
| 6:     | 0.850  | 0.002  |
| 7:     | 0.508  | 0.110  |
| 8:     | 0.224  | 0.150  |
| 9:     | -0.225 | 0.476  |
| 10:    | -0.221 | 0.223  |

X CENTROID: 0.324  
 Y CENTROID: 0.146  
 POA TO CENTROID: 0.356  
 HORZ SPREAD: 1.304  
 VERT SPREAD: 2.947  
 GROUP SPREAD: 2.957  
 MIN RADIUS: 0.100  
 MAX RADIUS: 1.506  
 MEAN RADIUS: 0.777  
 # IN 1 IN DIAMETER: 2  
 # IN 2 IN DIAMETER: 7  
 # in 3 IN DIAMETER: 9



TARGET APPROX 1/2 SCALE

**BARBER - M24 0001355**

SERIAL NUMBER: G6738632. \_\_0

TARGET NUMBER: 2

FILE DATE: 10/17/2008

FILE TIME: 05:25

| POINT# | X      | Y      |
|--------|--------|--------|
| 1:     | 0.861  | -0.707 |
| 2:     | 0.347  | -0.550 |
| 3:     | 0.528  | -0.183 |
| 4:     | 0.336  | -0.073 |
| 5:     | 0.357  | 0.080  |
| 6:     | 0.374  | 0.230  |
| 7:     | 0.133  | 0.261  |
| 8:     | -0.069 | -0.255 |
| 9:     | -0.250 | -0.296 |
| 10:    | -0.386 | -0.308 |

X CENTROID: 0.223

Y CENTROID: -0.180

POA TO CENTROID: 0.287

HORZ SPREAD: 1.247

VERT SPREAD: 0.968

GROUP SPREAD: 1.309

MIN RADIUS: 0.156

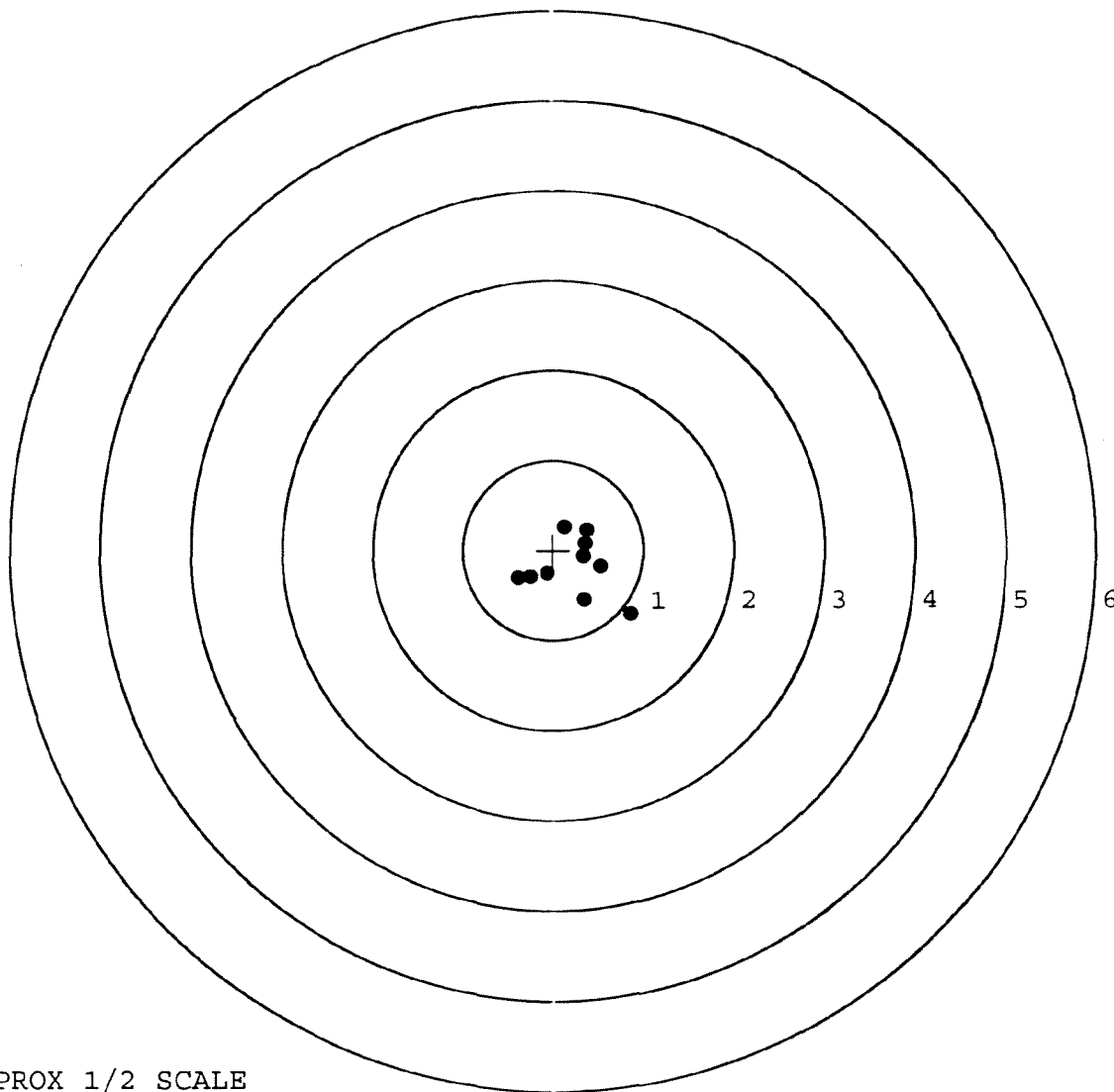
MAX RADIUS: 0.827

MEAN RADIUS: 0.427

# IN 1 IN DIAMETER: 8

# IN 2 IN DIAMETER: 10

# in 3 IN DIAMETER: 10



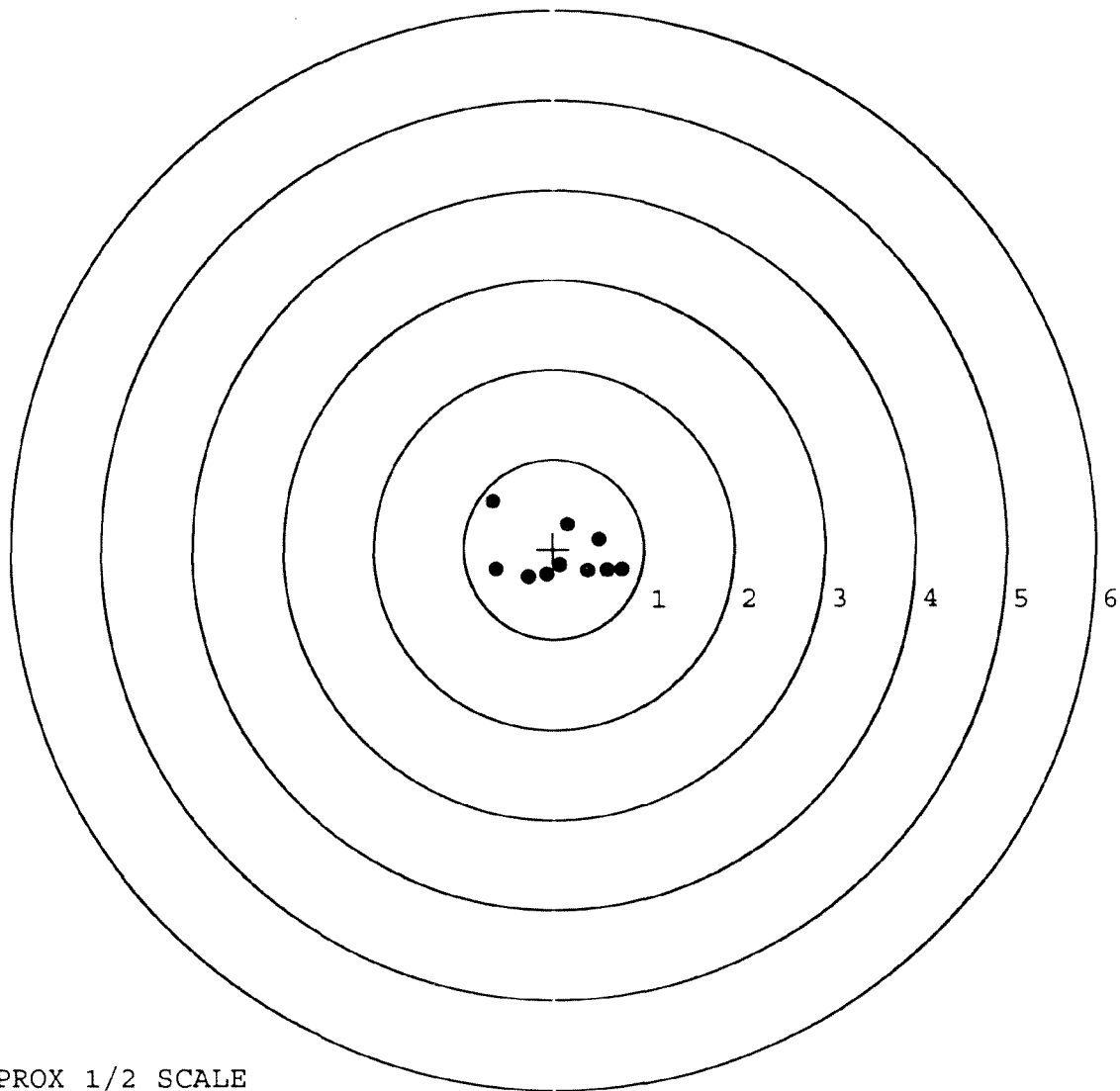
TARGET APPROX 1/2 SCALE

**BARBER - M24 0001356**

SERIAL NUMBER: G6738632. \_\_0  
 TARGET NUMBER: 3  
 FILE DATE: 10/17/2008  
 FILE TIME: 05:25

| POINT# | X      | Y      |
|--------|--------|--------|
| 1:     | -0.679 | 0.531  |
| 2:     | -0.636 | -0.232 |
| 3:     | -0.275 | -0.319 |
| 4:     | -0.079 | -0.290 |
| 5:     | 0.080  | -0.185 |
| 6:     | 0.381  | -0.244 |
| 7:     | 0.598  | -0.236 |
| 8:     | 0.765  | -0.232 |
| 9:     | 0.504  | 0.109  |
| 10:    | 0.157  | 0.274  |

X CENTROID: 0.082  
 Y CENTROID: -0.082  
 POA TO CENTROID: 0.116  
 HORZ SPREAD: 1.444  
 VERT SPREAD: 0.850  
 GROUP SPREAD: 1.633  
 MIN RADIUS: 0.103  
 MAX RADIUS: 0.977  
 MEAN RADIUS: 0.491  
 # IN 1 IN DIAMETER: 6  
 # IN 2 IN DIAMETER: 10  
 # in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

**BARBER - M24 0001357**

SERIAL NUMBER: G6738632. \_\_0

TARGET NUMBER: 4

FILE DATE: 10/17/2008

FILE TIME: 05:25

| POINT# | X      | Y      |
|--------|--------|--------|
| 1:     | -1.047 | -0.392 |
| 2:     | -0.792 | 0.603  |
| 3:     | 1.135  | 0.510  |
| 4:     | 0.571  | 0.247  |
| 5:     | 0.438  | 0.354  |
| 6:     | 0.238  | -0.048 |
| 7:     | 0.128  | -0.165 |
| 8:     | 0.006  | -0.305 |
| 9:     | 0.017  | -0.483 |
| 10:    | -0.073 | -0.632 |

X CENTROID: 0.062

Y CENTROID: -0.031

POA TO CENTROID: 0.069

HORZ SPREAD: 2.182

VERT SPREAD: 1.235

GROUP SPREAD: 2.361

MIN RADIUS: 0.149

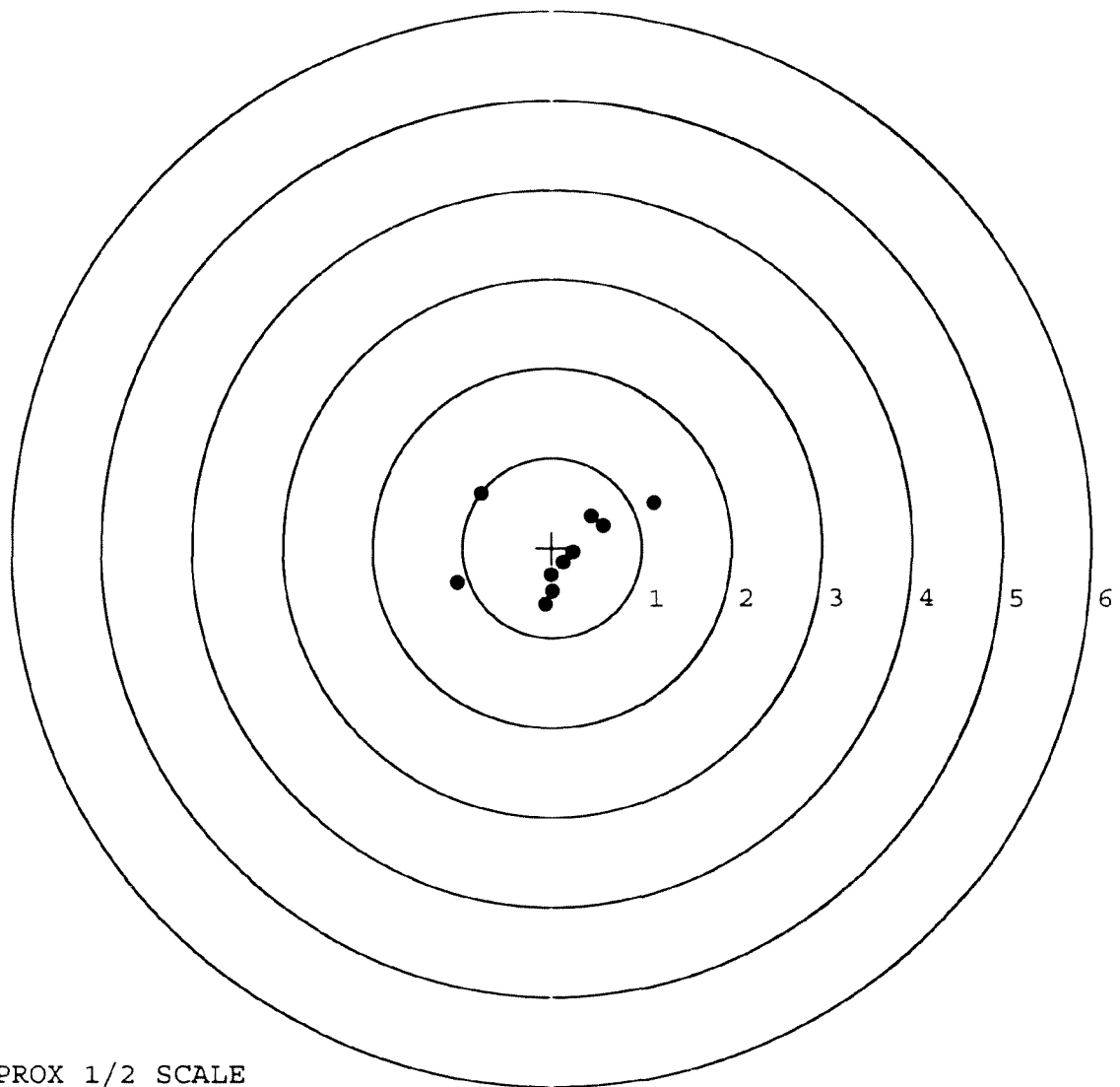
MAX RADIUS: 1.202

MEAN RADIUS: 0.623

# IN 1 IN DIAMETER: 4

# IN 2 IN DIAMETER: 7

# in 3 IN DIAMETER: 10



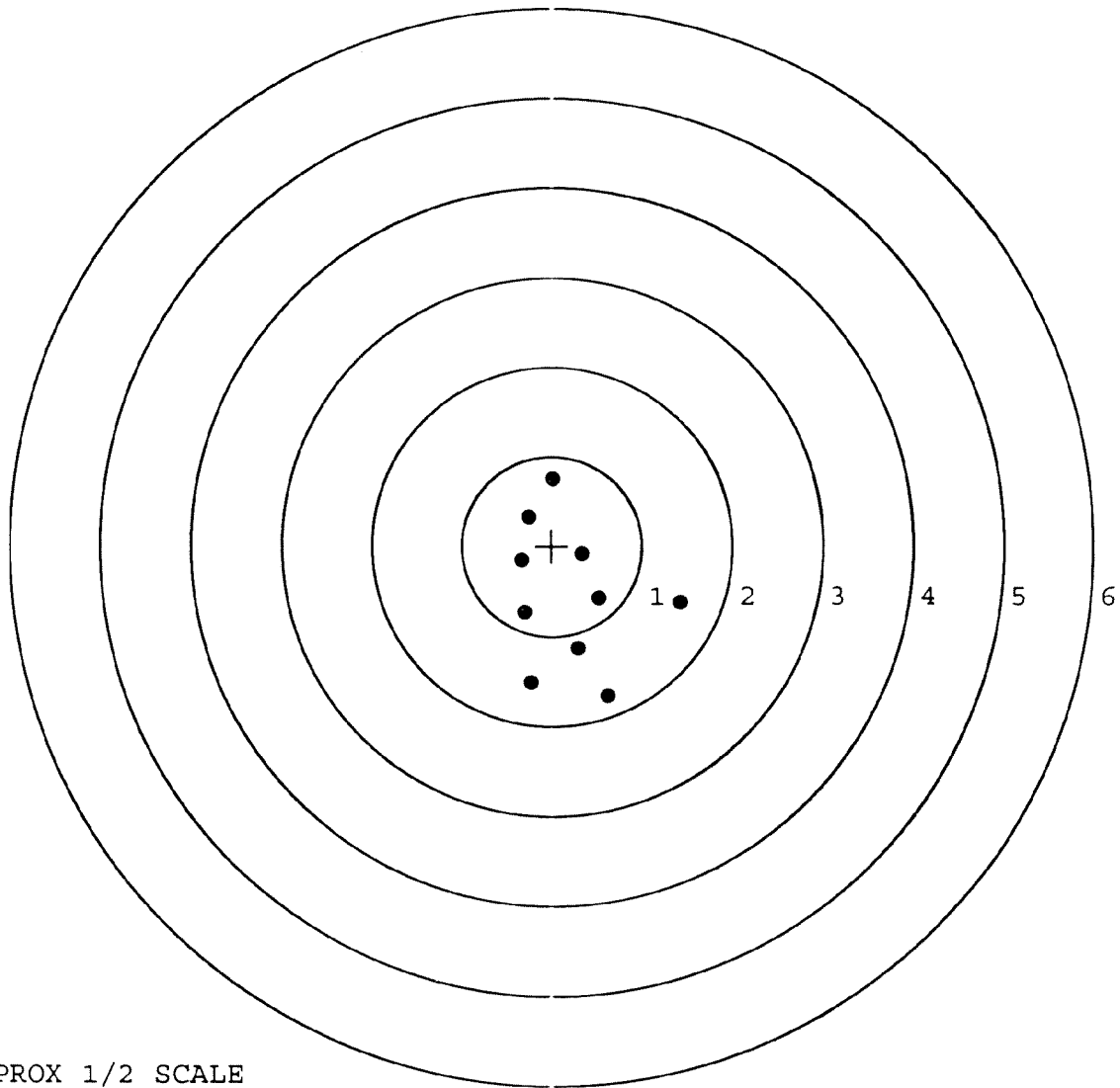
TARGET APPROX 1/2 SCALE

**BARBER - M24 0001358**

SERIAL NUMBER: G6738632. \_\_0  
 TARGET NUMBER: 5  
 FILE DATE: 10/17/2008  
 FILE TIME: 05:25

| POINT# | X      | Y      |
|--------|--------|--------|
| 1:     | 1.425  | -0.623 |
| 2:     | 0.622  | -1.663 |
| 3:     | -0.229 | -1.514 |
| 4:     | 0.294  | -1.135 |
| 5:     | 0.524  | -0.575 |
| 6:     | 0.334  | -0.087 |
| 7:     | -0.306 | -0.735 |
| 8:     | -0.339 | -0.165 |
| 9:     | -0.259 | 0.322  |
| 10:    | 0.018  | 0.747  |

X CENTROID: 0.208  
 Y CENTROID: -0.543  
 POA TO CENTROID: 0.581  
 HORZ SPREAD: 1.764  
 VERT SPREAD: 2.410  
 GROUP SPREAD: 2.485  
 MIN RADIUS: 0.317  
 MAX RADIUS: 1.304  
 MEAN RADIUS: 0.837  
 # IN 1 IN DIAMETER: 2  
 # IN 2 IN DIAMETER: 6  
 # in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

~~06225331~~

7-17-08

G6738632 (New)

| OPERATION # | OPERATION NAME      |            |      |      | DATE     | TIME   |
|-------------|---------------------|------------|------|------|----------|--------|
| 500         | DIS-ASSEMBLE GUN    |            |      |      | 9-25-08  | RTZ    |
| 505         | PE-BARREL           |            |      |      | 9-30-08  | RTZ    |
| 560         | ASSEMBLE            |            |      |      | 9-30-08  | RTZ    |
| 600         | PROOF               |            |      |      | 10-2-08  | L.P.D. |
| 605         | CHECK HEADSPACE     |            |      |      | 10-2-08  | L.P.D. |
| 610         | DIS-ASSEMBLE GUN    |            |      |      | 10-2-08  | L.P.D. |
| 612         | MAGNAFLUX           |            |      |      | 10/8/08  | (H)    |
| 510         | DRILL AND TAP       |            |      |      | 10-6-08  | JP     |
| 615         | ROLLMARK CALIBER    |            |      |      | 10/8/08  | RT     |
| 616         | ROTO-BLAST          |            |      |      |          |        |
| 620         | APPLY COATINGS      |            |      |      | 10/11    |        |
| 625         | FINAL ASSEMBLY      |            |      |      | 10-15-08 | RTZ    |
| 640         | FUNCTION TEST AND   | PASS       | FAIL |      | 10-17-08 | TC     |
| 650         | TARGET              | PASS       | FAIL |      | 10-15-08 | TC     |
|             | MALFUNCTION BAC     | CORRECTION |      |      | 10-17-08 | TC     |
|             | MALFUNCTION         | CORRECTION |      |      |          |        |
|             | MALFUNCTION         | CORRECTION |      |      |          |        |
|             | MALFUNCTION         | CORRECTION |      |      | 10-16-08 | L.P.D. |
| 670         | FINAL INSPECTION    |            |      |      | 10-22-08 | L.P.D. |
|             | A) HEADSPACE        | PASS       | FAIL |      | 10-22-08 | L.P.D. |
|             | B) TRIGGER PIN      | 2.75       | 2.73 | 2.65 | 2.67     | 2.62   |
|             | C) SAFETY ON FORCE  | 5.0        | 5.0  | 5.0  | 5.0      | 5.0    |
|             | D) SAFETY OFF FORCE | 6.0        | 6.0  | 5.0  | 5.0      | 5.0    |
|             | E) SPRING PIN IN/DN | .020       | .021 | .021 | .021     | .021   |

M-24

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6225331

| OP.#         | OP. NAME                                                       | READINGS | DATE     | INITIAL |
|--------------|----------------------------------------------------------------|----------|----------|---------|
| 575 &<br>580 | Assemble Action<br>and stock                                   | 8        | 9/88     | FB      |
| 600          | Proof                                                          | 9        | 7/88     | Ru      |
| 607          | Check Headspace                                                | 9        | 7/88     | RW      |
| 610          | Dis-assemble gun                                               | 1        | 1/88     | Ru      |
| 612          | Magnaflux Barrel<br>Action                                     |          | 9-14-88  | RFL     |
|              | Magnaflux Bolt                                                 |          | 9-14-88  | RFL     |
| 615          | Rollmark Caliber                                               |          | 10/12    | WC      |
| 617          | Drill & Tap Sight Holes                                        |          | 10/12    | FB      |
| 618          | Polish Barrel                                                  |          | 10/20    | WT      |
| 620          | Apply Coatings<br>(Barrel Action)                              |          | 10-31-88 | TJA     |
|              | Apply Coatings (Bolt)                                          |          | 10-31-88 | TJA     |
| 625          | Final Assembly<br>A) Clean inside of<br>Bolt Assembly          |          | 11/2/88  | Ru      |
|              | B) Inspect Rear Firing<br>Pin Hole for Chamfer<br>in Bolt Head |          | 11/2/88  | Ru      |
|              | C) Inspect Ejector Hole<br>for Chamfer                         |          | 11/2/88  | Ru      |

OVER

| OP. # |                                                             | READINGS           | DATE      | INITIAL |
|-------|-------------------------------------------------------------|--------------------|-----------|---------|
| 625   | D) Oil Firing Pin Ass'y                                     |                    | 11/7/88   | RW      |
| cont. | E) Adjust Trigger Pull to Min. Setting and Stake            |                    | 8/10/88   | JU      |
|       | F) Safety on Force                                          | 5 : 5 : 5          | 8/10/88   | MS      |
|       | G) Safety off Force                                         | 3 : 3 : 3          | 8/10/88   | JS      |
|       | H) Trigger Pull Test & Retainability                        |                    | 7/10/88   | JU      |
|       | I) Firing Pin Indent                                        | .020 : .020 : .020 | 8/10/88   | JS      |
|       | J) Assemble Stock                                           |                    | 11/16/88  | RW      |
|       | K) Attach Front & Rear Sight Assemblies                     |                    | 11/16/88  | RW      |
|       | L) Iron Sight Alignment                                     |                    | 11/16/88  | RW      |
|       | M) Detach Front & Rear Sights & place in numbered container |                    | 11/16/88  | RW      |
|       | N) Attach Scope to Rifle                                    |                    | 11/18/88  | WB      |
|       | O) Detach & Attach Scope 20 times                           |                    | 11/18/88  | WB      |
| 640   | Gallery Target & Test                                       | 57 R 98 L          | 11-28-88  | AC      |
|       | A) Optical Clarity of Scope                                 | OK                 | 11-28-88  | AC      |
| 645   | Inspect for Live Ammo                                       | NONE               | 11-28-88  | AC      |
| 655   | Final Inspection<br>A) Headspace                            |                    | 5 Dec 88  | JS      |
|       | B) Trigger Pull                                             | 260 : 257 : 253    | 252 : 250 | JS      |
|       | C) Function                                                 |                    | 5 Dec 88  | JS      |
|       | D) Assemble Swivel Studs                                    |                    | 5 Dec 88  | JS      |
| 660   | Pack                                                        |                    | 15 Dec 88 | JS      |

AVERAGE PULL FORCE BETWEEN  
INITIAL & CYCLE TESTS

2.50# + .50#

3.00# + .75#

4.00# + 1.00#

SERIAL NO. C.6225331

DATE 11-7-88

TESTER JL

|         | 2.50#<br>INITIAL | 2.50# AFTER<br>50 CYCLES | FINAL TEST &<br>TO RESET 2.50# |       | COMMENTS                                                               |
|---------|------------------|--------------------------|--------------------------------|-------|------------------------------------------------------------------------|
| PULL #1 | 2.54             | 2.43                     | 2.64                           | 2.60  | MIN. SETTING,<br>NO AVG. OF 5<br>READINGS ACCEPT-<br>ABLE LESS THAN 2# |
| PULL #2 | 2.43             | 2.48                     | 2.65                           | 2.57  |                                                                        |
| PULL #3 | 2.49             | 2.57                     | 2.64                           | 2.53  |                                                                        |
| PULL #4 | 2.52             | 2.47                     | 2.64                           | 2.52  |                                                                        |
| PULL #5 | 2.51             | 2.44                     | 2.62                           | 2.50  |                                                                        |
| TOTAL   | 12.49            | 12.44                    | 13.19                          | 12.72 |                                                                        |
| AVG.    | 2.498            | 2.488                    | 2.638                          | 2.544 |                                                                        |

|         | 3.00#<br>INITIAL | 3.00# AFTER<br>20 CYCLES |  | COMMENTS |
|---------|------------------|--------------------------|--|----------|
| PULL #1 | 3.36             | 3.34                     |  |          |
| PULL #2 | 3.38             | 3.37                     |  |          |
| PULL #3 | 3.37             | 3.37                     |  |          |
| PULL #4 | 3.37             | 3.36                     |  |          |
| PULL #5 | 3.38             | 3.38                     |  |          |
| TOTAL   | 16.86            | 16.82                    |  |          |
| AVG.    | 3.372            | 3.364                    |  |          |

|         | 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 | 4.30             | 4.21                     |                                | 4.00                                 |
| PULL #2 | 4.30             | 4.26                     |                                | 4.15                                 |
| PULL #3 | 4.28             | 4.26                     |                                | 4.11                                 |
| PULL #4 | 4.28             | 4.28                     |                                | 4.10                                 |
| PULL #5 | 4.29             | 4.30                     |                                | 4.11                                 |
| TOTAL   | 21.45            | 21.31                    |                                | 20.47                                |
| AVG.    | 4.29             | 4.262                    |                                | 4.094                                |

CENTROIDAL DISTANCE CALCULATIONS  
FOR RIFLE # C6225331

CENTROIDAL DISTANCES

|   |    |   |         |
|---|----|---|---------|
| 0 | TO | 1 | .802297 |
| 1 | TO | 2 | .895056 |
| 1 | TO | 3 | .860277 |
| 1 | TO | 4 | 1.09216 |
| 1 | TO | 5 | .711079 |

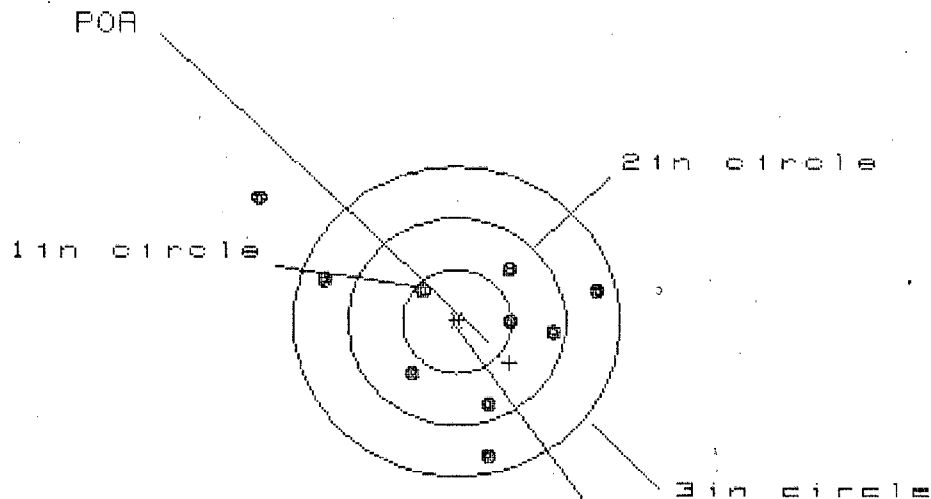
4  
5  
1 2 <----FOR

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.2786  
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .1258  
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .305685  
THE AMR FOR THIS RIFLE IS: .9056

29 May 1988

FILE:/PATTERNING/CENTERFIRE\_PATT/C6225331

## CENTERFIRE PATTERNS # 5



# OF SHOTS- 10

# IN CIR

1in = 2

2in = 6

3in = 9

HS= 3.027

VS= 2.533

GS= 3.246

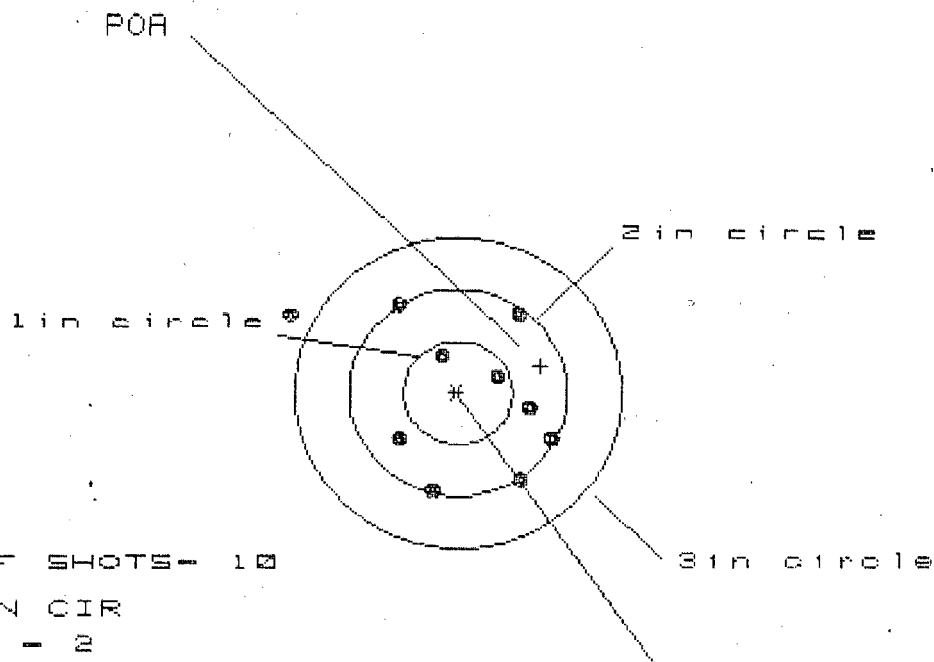
CENTROID #

| PATTERN #                     | 5      | 5      | 5      |
|-------------------------------|--------|--------|--------|
| SHOTS (BEST OF)               | 10     | 9      | 8      |
| MAXIMUM X                     | 1.263  | 1.067  | 1.076  |
| MINIMUM X                     | -1.764 | -1.412 | -1.403 |
| MAXIMUM Y                     | 1.216  | .593   | .446   |
| MINIMUM Y                     | -1.317 | -1.182 | -.802  |
| CENTROID X                    | -.487  | -.291  | -.300  |
| CENTROID Y                    | .397   | .262   | .409   |
| POA TO CENTROID in.           | .628   | .391   | .507   |
| MIN RADIUS                    | .440   | .278   | .253   |
| MEAN RADIUS                   | 1.007  | .843   | .789   |
| MAX RADIUS                    | 2.143  | 1.502  | 1.450  |
| HORIZONTAL SPREAD             | 3.027  | 2.479  | 2.479  |
| VERTICAL SPREAD               | 2.533  | 1.775  | 1.248  |
| EXTREME SPREAD                | 3.246  | 2.481  | 2.481  |
| NUMBER IN ONE INCH CIRCLE =   |        | 2      |        |
| NUMBER IN TWO INCH CIRCLE =   |        | 6      |        |
| NUMBER IN THREE INCH CIRCLE = |        | 9      |        |

29 Nov 1988

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CENTERFIRE PATTERNS # 1



# OF SHOTS - 10

# IN CIR

1 in = 2

2 in = 8

3 in = 9

HS = 2.417

VS = 1.733

GS = 2.720

| PATTERN #                   | : | 10     | 9     | 8     |
|-----------------------------|---|--------|-------|-------|
| SHOTS (BEST OF)             | : | 10     | 9     | 8     |
| MAXIMUM X                   | : | .902   | .733  | .534  |
| MINIMUM X                   | : | -1.515 | -.754 | -.662 |
| MAXIMUM Y                   | : | .814   | .903  | .859  |
| MINIMUM Y                   | : | -.919  | -.830 | -.874 |
| CENTROID X                  | : | -.759  | -.590 | -.682 |
| CENTROID Y                  | : | -.260  | -.349 | -.305 |
| POA TO CENTROID in.         | : | .802   | .686  | .747  |
| MIN RADIUS                  | : | .377   | .278  | .324  |
| MEAN RADIUS                 | : | .873   | .751  | .744  |
| MAX RADIUS                  | : | 1.716  | 1.137 | 1.047 |
| HORIZONTAL SPREAD           | : | 2.417  | 1.487 | 1.196 |
| VERTICAL SPREAD             | : | 1.733  | 1.733 | 1.733 |
| EXTREME SPREAD              | : | 2.720  | 1.967 | 1.967 |
| NUMBER IN ONE INCH CIRCLE   | = |        | 2     |       |
| NUMBER IN TWO INCH CIRCLE   | = |        | 8     |       |
| NUMBER IN THREE INCH CIRCLE | = |        | 9     |       |

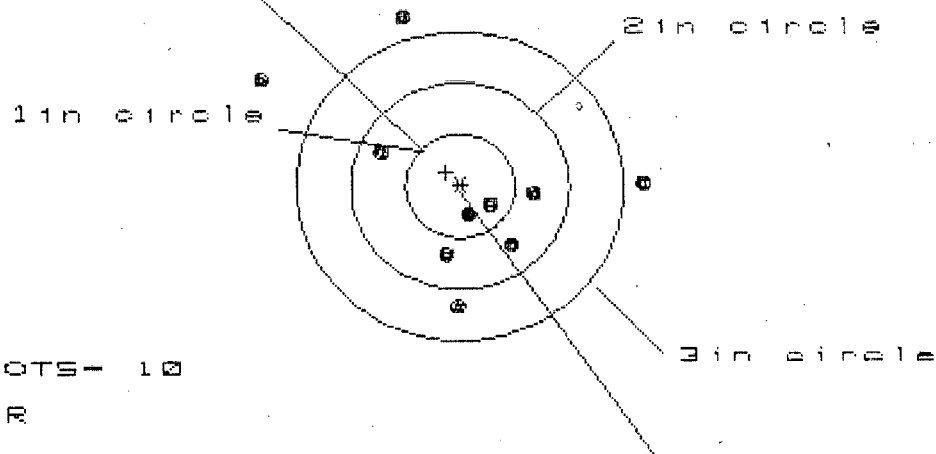
29 Nov 1986

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## CENTERFIRE PATTERNS

# 2

POA



# OF SHOTS- 10

# IN CIR

1in = 2

2in = 6

3in = 7

HS= 3.461

VS= 2.785

GS= 3.609

CENTROID \*

| PATTERN #                   | : | 2      | 9      | 8      |
|-----------------------------|---|--------|--------|--------|
| SHOTS (BEST OF)             | : | 10     | 9      | 8      |
| MAXIMUM X                   | : | 1.676  | 1.477  | 1.387  |
| MINIMUM X                   | : | -1.785 | -.928  | -1.018 |
| MAXIMUM Y                   | : | 1.614  | 1.729  | .621   |
| MINIMUM Y                   | : | -1.171 | -1.056 | -.840  |
| CENTROID X                  | : | .127   | .326   | .416   |
| CENTROID Y                  | : | -.133  | -.248  | -.464  |
| POA TO CENTROID in.         | : | .184   | .409   | .623   |
| MIN RADIUS                  | : | .283   | .122   | .139   |
| MEAN RADIUS                 | : | 1.014  | .828   | .652   |
| MAX RADIUS                  | : | 2.062  | 1.872  | 1.428  |
| HORIZONTAL SPREAD           | : | 3.461  | 2.405  | 2.405  |
| VERTICAL SPREAD             | : | 2.785  | 2.785  | 1.461  |
| EXTREME SPREAD              | : | 3.609  | 2.824  | 2.421  |
| NUMBER IN ONE INCH CIRCLE   | = | 2      |        |        |
| NUMBER IN TWO INCH CIRCLE   | = | 6      |        |        |
| NUMBER IN THREE INCH CIRCLE | = | 7      |        |        |

29 Nov 1988

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## CENTERFIRE PATTERNS # 3

POA

1in circle

2in circle

3in circle

CENTROID \*

# OF SHOTS- 10

# IN CIR

1in = 3

2in = 7

3in = 9

HS= 1.455

VS= 2.725

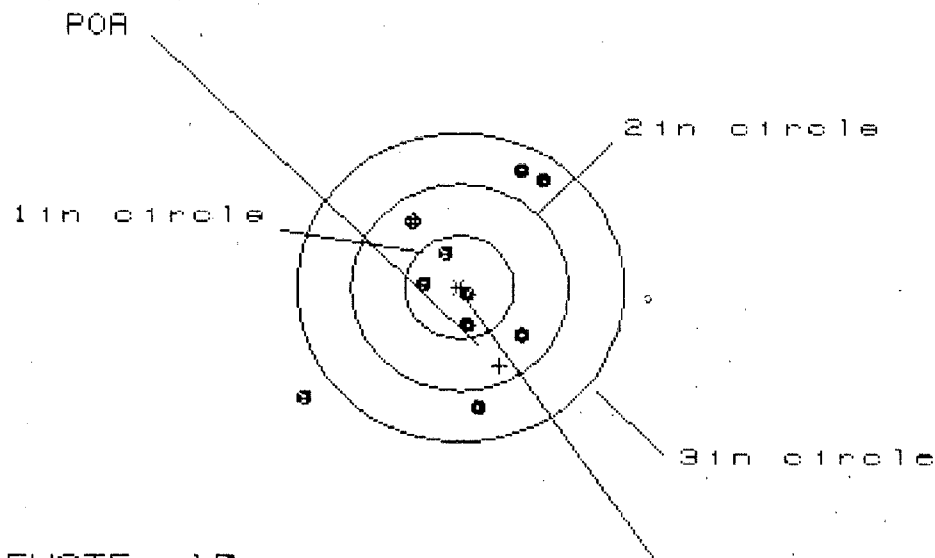
GS= 2.729

| PATTERN #                   | : | 3      | 9     | 8     |
|-----------------------------|---|--------|-------|-------|
| SHOTS (BEST OF)             | : | 10     | 9     | 8     |
| MAXIMUM X                   | : | .791   | .786  | .797  |
| MINIMUM X                   | : | -.664  | -.669 | -.571 |
| MAXIMUM Y                   | : | 1.212  | 1.043 | 1.155 |
| MINIMUM Y                   | : | -1.514 | -.608 | -.496 |
| CENTROID X                  | : | .092   | .097  | -.001 |
| CENTROID Y                  | : | -.134  | .035  | -.077 |
| POA TO CENTROID in.         | : | .162   | .103  | .077  |
| MIN RADIUS                  | : | .278   | .419  | .277  |
| MEAN RADIUS                 | : | .820   | .766  | .671  |
| MAX RADIUS                  | : | 1.514  | 1.189 | 1.170 |
| HORIZONTAL SPREAD           | : | 1.455  | 1.455 | 1.368 |
| VERTICAL SPREAD             | : | 2.725  | 1.651 | 1.651 |
| EXTREME SPREAD              | : | 2.729  | 2.010 | 1.749 |
| NUMBER IN ONE INCH CIRCLE   | = | 3      |       |       |
| NUMBER IN TWO INCH CIRCLE   | = | 7      |       |       |
| NUMBER IN THREE INCH CIRCLE | = | 9      |       |       |

29 Nov 1988

FILE:/PATTERNING/CENTERFIRE\_PATT/C6225331

## CENTERFIRE PATTERNS # 4



# OF SHOTS- 10

# IN CIR

1 in = 4

2 in = 6

3 in = 9

HS= 2.236

VS= 2.247

GS= 3.082

CENTROID \*

| PATTERN #                   | : | 4      |        |        |
|-----------------------------|---|--------|--------|--------|
| SHOTS (BEST OF)             | : | 10     | 9      | 8      |
| MAXIMUM X                   | : | .786   | .625   | .486   |
| MINIMUM X                   | : | -1.450 | -.576  | -.498  |
| MAXIMUM Y                   | : | 1.136  | 1.015  | 1.128  |
| MINIMUM Y                   | : | -1.111 | -1.232 | -1.119 |
| CENTROID X                  | : | -.366  | -.285  | -.283  |
| CENTROID Y                  | : | .759   | .880   | .767   |
| POA TO CENTROID in.         | : | .843   | .904   | .818   |
| MIN RADIUS                  | : | .140   | .206   | .094   |
| MEAN RADIUS                 | : | .814   | .713   | .630   |
| MAX RADIUS                  | : | 1.815  | 1.233  | 1.211  |
| HORIZONTAL SPREAD           | : | 2.236  | 1.201  | .984   |
| VERTICAL SPREAD             | : | 2.247  | 2.247  | 2.247  |
| EXTREME SPREAD              | : | 3.082  | 2.268  | 2.268  |
| NUMBER IN ONE INCH CIRCLE   | = |        | 4      |        |
| NUMBER IN TWO INCH CIRCLE   | = |        | 6      |        |
| NUMBER IN THREE INCH CIRCLE | = |        | 9      |        |

RECEIVING BARBER M24 0001369

COMMENTS

ORDER

R93-29341

INITIAL CUSTOMER ORDER NO.

W/LEOPOLD 10X SCOPE &amp; BI-POD

M-24 SNIPERATTN FRED MARTIN

T IN

| DATE RECEIVED                           | DATE OPENED | DATE CODE | SERIAL NUMBER | NEW SERIAL NUMBER | MODEL AND GRADE |
|-----------------------------------------|-------------|-----------|---------------|-------------------|-----------------|
| 12/27/93                                | 12/29/93    | DI 9-88   | C6225331      |                   | 700 7.62 SWS    |
| ACCESSORIES W/STUDS HARD CASE SOFT CASE |             |           |               |                   |                 |

FROM:

SHIP TO:

DEPT. OF THE ARMY  
A CO. 1/75 RGR REGT  
HAAF

GA 31409

DEPT. OF THE ARMY  
A CO. 1/75 RGR REGT  
HAAF

GA

31409

ACCOUNT NUMBER

ACCOUNT NUMBER N/C

CUST NO: 087736 C.O.D

PROM. DATE

ESTIMATED

VIA

WRITE ☐

R410454067

GUN CONDITION

- ☐ NEW  
☐ LIGHTLY WORN  
☐ WORN  
☐ VERY WORN  
☐ UNREPAIRABLE  
☐ MARRED

REPAIR CHARGE

EXCISE

TAX

INSURANCE

UPS

PARCEL POST

TOTAL

| CUSTOMER CONCERN | AMMO | FUNCTION | FINISH | ACCURACY | FIT | INSPECT |
|------------------|------|----------|--------|----------|-----|---------|
| CYCLE            | A1   | B1       |        |          |     |         |
| TRIGGER GROUP    |      | B2       |        |          | E1  | F1      |
| BOLT ASSY.       |      | B3       |        |          | E2  | F2      |
| BARREL ASSY.     |      | B4       |        | D1       | E3  | F3      |
| REC. ASSY.       |      | B5       |        | D2       | E4  | F4      |
| WOOD             |      |          | G1     | D3       | E5  | F5      |
| METAL            |      |          | G2     |          |     |         |

MAIN FAULT

Replace Barrel Assy, Scope Sun Shade Cross-Threaded, Screw missing from Bipod leg, Stock needs Finish & Soft Case Zipper Broken

PARTS

COMMENTS

Barrel Assy - 96003 Reinc - Scope Base, Scope Rings,  
Stock Assy - 96018 & Swivel Studs.  
Soft Rifle Carrying Case - 96076 Repowder Coat - Floor Plate, Arch  
Scope Sun Shade - 96049 Trigger Guard, Front & Rear Sight  
Bases.  
Repair Bipod.

W52H094011H528

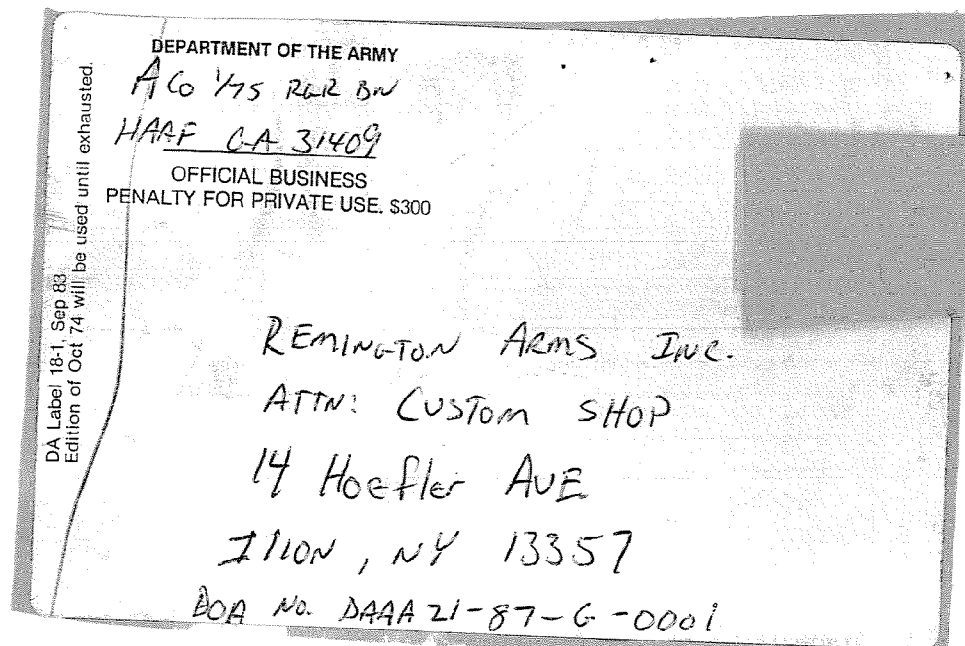
| REPAIRMAN      | PROOF    | CLEAN  | TEST   | TARGET | PATTERN |
|----------------|----------|--------|--------|--------|---------|
| RW             | ✓        | ✓      | ✓      | ✓      |         |
| GALLERY TESTER | DATE     | DATE   | DATE   | DATE   | DATE    |
| RW             | 12/28/93 | 1/4/94 | 1/4/94 | 1/4/94 |         |

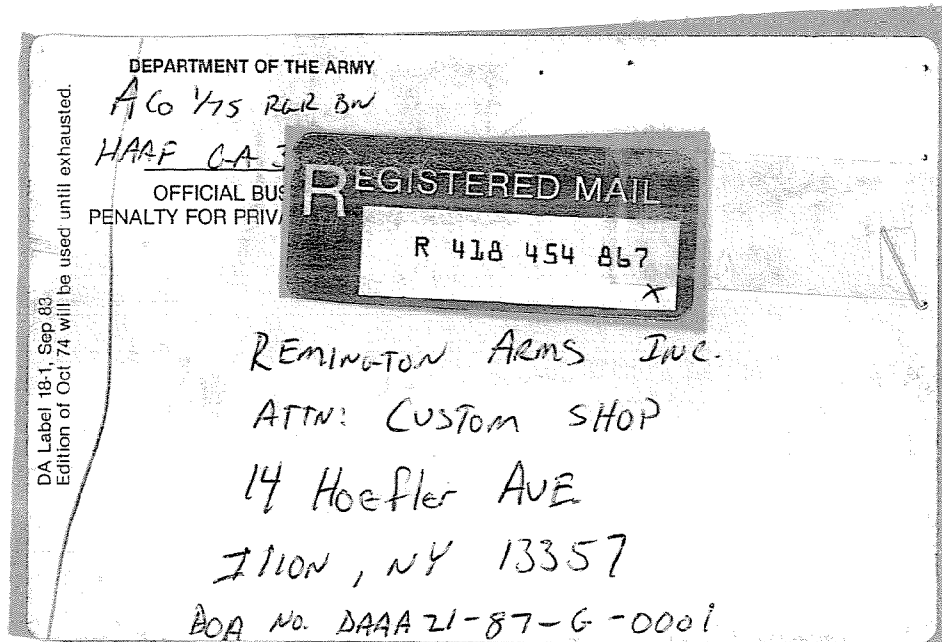
OFFICE COPY

RD6925 REV. 1/92

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER  
KINZER V. REMINGTON

BARBER - M24 000136901408





65 lbs  
47.20



| MAINTENANCE REPORT                                                                                                                          |                        |                      |                                                                                                                                                                                    |                       |                                        |                                                                                                                                                         |                    |                                                     |                       |
|---------------------------------------------------------------------------------------------------------------------------------------------|------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------------------------------------|-----------------------|
| For use of this form, see PAM 138-150; the proponent agency is DA Form 5504                                                                 |                        |                      |                                                                                                                                                                                    |                       |                                        |                                                                                                                                                         |                    |                                                     |                       |
| SECTION I - CUSTOMER DATA                                                                                                                   |                        |                      |                                                                                                                                                                                    |                       | SECTION II - MAINTENANCE ACTIVITY DATA |                                                                                                                                                         |                    |                                                     |                       |
| 1a. UIC CUSTOMER                                                                                                                            | 1b. CUSTOMER UNIT NAME | 1c. PHONE NO.        | 1d. WORK ORDER NUMBER (WON)                                                                                                                                                        | 1e. SHOP              | 1f. PHONE NO.                          |                                                                                                                                                         |                    |                                                     |                       |
| 2a. IF INTRANSIT CUSTOMER, ENTER DATA IN BLOCKS 7b. AND 7c.                                                                                 | 2b. SAMS-2 UIC         | 2c. UTILIZATION CODE | 4a. UIC SUPPORT                                                                                                                                                                    | 4b. SUPPORT UNIT NAME |                                        |                                                                                                                                                         |                    |                                                     |                       |
| SECTION III - EQUIPMENT DATA                                                                                                                |                        |                      |                                                                                                                                                                                    |                       |                                        |                                                                                                                                                         |                    |                                                     |                       |
| 5. TYPE MNT REQ CODE                                                                                                                        | 6. ID                  | 7. NSN               | 15. FAILURE DETECTED DURING (Select one use $\checkmark$ or X)                                                                                                                     |                       |                                        |                                                                                                                                                         |                    |                                                     |                       |
| 8. MODEL                                                                                                                                    | 9. NOUN                |                      | 15a. <input type="checkbox"/> Scheduled Maintenance <input type="checkbox"/> Test <input type="checkbox"/> Storage <input type="checkbox"/> Flight <input type="checkbox"/> Collis |                       |                                        |                                                                                                                                                         |                    |                                                     |                       |
| 10a. ORG WON                                                                                                                                |                        |                      | 10b. EIC                                                                                                                                                                           |                       |                                        | 15b. <input type="checkbox"/> Handling <input checked="" type="checkbox"/> Normal Op <input type="checkbox"/> Inspection <input type="checkbox"/> Other |                    |                                                     |                       |
| 11. SERIAL NUMBER                                                                                                                           |                        |                      | 12. QTY                                                                                                                                                                            |                       |                                        | 15c. <input type="checkbox"/> MI <input type="checkbox"/> KM                                                                                            |                    |                                                     |                       |
| 14. MALFUNCTION DESCRIPTION (for DSU/GSU use)                                                                                               |                        |                      | 16d. LANDINGS                                                                                                                                                                      |                       |                                        | 16e. AUTO-ROTATIONS                                                                                                                                     |                    | 17. PROJECT CODE (if assigned)                      |                       |
| 24. DESCRIBE DEFICIENCIES OR SYMPTOMS ON THE BASIS OF COMPLETE CHECKOUT AND DIAGNOSTIC PROCEDURE IN EQUIPMENT TM (Do not prescribe repairs) |                        |                      | 19. IN WARRANTY? (enter Y or N)                                                                                                                                                    |                       |                                        | 20. LEVEL OF WORK (Select one - use $\checkmark$ or X)                                                                                                  |                    | 18. ACCOUNT PROCESSING CODE                         |                       |
| 24a. REMARKS                                                                                                                                |                        |                      | 21. BUMPER NO./TAIL NO.                                                                                                                                                            |                       |                                        | 22. REIMBURSABLE CUSTOMER? (if Intransit Customer, enter Y or N)                                                                                        |                    | 23. PD AUTHENTICATING SIGNATURE (Payroll Signature) |                       |
| 24b. REMARKS                                                                                                                                |                        |                      | 24c. REMARKS                                                                                                                                                                       |                       |                                        |                                                                                                                                                         |                    |                                                     |                       |
| SECTION IV - REPORTABLE DATA                                                                                                                |                        |                      |                                                                                                                                                                                    |                       |                                        |                                                                                                                                                         |                    |                                                     |                       |
| 25a. STA                                                                                                                                    | 25b. ORD DATE          | 25c. MIL TIME        | 25a. STA                                                                                                                                                                           | 25b. ORD DATE         | 25c. MIL TIME                          | 26. TECHNICAL REFERENCES                                                                                                                                |                    |                                                     |                       |
|                                                                                                                                             |                        |                      |                                                                                                                                                                                    |                       |                                        |                                                                                                                                                         |                    |                                                     |                       |
|                                                                                                                                             |                        |                      |                                                                                                                                                                                    |                       |                                        |                                                                                                                                                         |                    |                                                     |                       |
|                                                                                                                                             |                        |                      |                                                                                                                                                                                    |                       |                                        |                                                                                                                                                         |                    |                                                     |                       |
| SECTION V - TASK REQUIREMENTS DATA                                                                                                          |                        |                      |                                                                                                                                                                                    |                       |                                        |                                                                                                                                                         |                    |                                                     |                       |
| 27a. FILE INPUT ACT CD                                                                                                                      | 27b. TASK NO.          | 27c. ACT ROD         | 27d. TASK DESCRIPTION                                                                                                                                                              | 27e. QTY TO BE RPR    | 27f. WORK CENTER                       | 27g. FAILURE CODE                                                                                                                                       | 27h. MIN RMIN/PROJ |                                                     |                       |
|                                                                                                                                             |                        |                      |                                                                                                                                                                                    |                       |                                        |                                                                                                                                                         |                    |                                                     |                       |
|                                                                                                                                             |                        |                      |                                                                                                                                                                                    |                       |                                        |                                                                                                                                                         |                    |                                                     |                       |
|                                                                                                                                             |                        |                      |                                                                                                                                                                                    |                       |                                        |                                                                                                                                                         |                    |                                                     |                       |
|                                                                                                                                             |                        |                      |                                                                                                                                                                                    |                       |                                        |                                                                                                                                                         |                    |                                                     |                       |
| SECTION VI - PART REQUIREMENTS                                                                                                              |                        |                      |                                                                                                                                                                                    |                       |                                        |                                                                                                                                                         |                    |                                                     |                       |
| 28a. FILE INPUT ACT CD                                                                                                                      | 28b. TASK NO.          | 28c. ID              | 28d. ROD NSN OR PART NUMBER                                                                                                                                                        | 28e. SFR CD           | 28f. QTY RQD                           | 28g. QTY ISSUED                                                                                                                                         | 28h. NM CS         | 28i. FAILURE CODE                                   | 28j. STORAGE LOCATION |
|                                                                                                                                             |                        |                      |                                                                                                                                                                                    |                       |                                        |                                                                                                                                                         |                    |                                                     |                       |
|                                                                                                                                             |                        |                      |                                                                                                                                                                                    |                       |                                        |                                                                                                                                                         |                    |                                                     |                       |
|                                                                                                                                             |                        |                      |                                                                                                                                                                                    |                       |                                        |                                                                                                                                                         |                    |                                                     |                       |
|                                                                                                                                             |                        |                      |                                                                                                                                                                                    |                       |                                        |                                                                                                                                                         |                    |                                                     |                       |
|                                                                                                                                             |                        |                      |                                                                                                                                                                                    |                       |                                        |                                                                                                                                                         |                    |                                                     |                       |
| SECTION VII - COMPLETION DATA                                                                                                               |                        |                      |                                                                                                                                                                                    |                       |                                        |                                                                                                                                                         |                    |                                                     |                       |
| 29. QTY RPR                                                                                                                                 | 30. QTY CONDEMN        | 31. QTY NRTS         | 32. EVAC WON                                                                                                                                                                       | 33. EVAC UNIT NAME    |                                        |                                                                                                                                                         |                    |                                                     |                       |
|                                                                                                                                             |                        |                      |                                                                                                                                                                                    |                       |                                        |                                                                                                                                                         |                    |                                                     |                       |
| SECTION VIII - ACTION SIGNATURES                                                                                                            |                        |                      |                                                                                                                                                                                    |                       |                                        |                                                                                                                                                         |                    |                                                     |                       |
| 34a. SUBMITTED BY                                                                                                                           | 35a. ACCEPTED BY       | 36a. WORK STARTED BY | 37a. INSPECTED BY                                                                                                                                                                  | 38a. PICKED UP BY     |                                        |                                                                                                                                                         |                    |                                                     |                       |
| 34b. ORD DATE                                                                                                                               | 35b. STA               | 35c. ORD DATE        | 35d. MIL TIME                                                                                                                                                                      | 36b. STA              | 36c. ORD DATE                          | 36d. MIL TIME                                                                                                                                           | 37b. STA           | 37c. ORD DATE                                       | 37d. MIL TIME         |
| 38b. STA                                                                                                                                    | 38c. ORD DATE          | 38d. MIL             | 38e. STA                                                                                                                                                                           | 38f. ORD DATE         | 38g. MIL                               | 38h. STA                                                                                                                                                | 38i. ORD DATE      | 38j. MIL                                            | 38k. MIL              |

DA FORM 5504, APR 87

DA FORM 5504 (TEST), DEC 65, MAY BE USED

COI

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6225331

| OP. #        | OP. NAME                                                       | READINGS | DATE     | INITIAL |
|--------------|----------------------------------------------------------------|----------|----------|---------|
| 575 &<br>580 | Assemble Action<br>and Stock                                   |          | 12/28/93 | RW      |
| 600          | Proof                                                          |          | 12/28/93 | RW      |
| 607          | Check Headspace                                                |          | 12/28/93 | RW      |
| 610          | Dis-assemble Gun                                               |          | 12/28/93 | RW      |
| 612          | Magnaflux Barrel<br>Action                                     |          |          |         |
|              | Magnaflux Bolt                                                 |          |          |         |
| 615          | Rollmark Caliber                                               |          |          |         |
| 617          | Drill and Tap Sight Holes                                      |          |          |         |
| 618          | Polish Barrel                                                  |          |          |         |
| 620          | Apply Coatings<br>(Barrel Action)                              |          |          |         |
|              | Apply Coating (Bolt)                                           |          |          |         |
| 625          | Final Assembly<br>A) Clean inside of<br>Bolt Assembly          |          | 1/4/94   | RW      |
|              | B) Inspect Rear Firing<br>Pin Hole for Chamfer<br>in Bolt Head |          | 1/4/94   | RW      |
|              | C) Inspect Ejector Hole<br>for Chamfer                         |          | 1/4/94   | RW      |
|              | D) Oil Firing Pin Ass'y                                        |          | 1/4/94   | RW      |
|              | E) Adjust Trigger Pull to<br>Min Setting and Stake             |          |          |         |

| op. #       | OP. NAME                                                    | READINGS |      |      |      |      | DATE   | INIT |
|-------------|-------------------------------------------------------------|----------|------|------|------|------|--------|------|
| 65<br>Cont. | F) Safety On Force                                          |          |      |      |      |      |        |      |
|             | G) Safety Off Force                                         |          |      |      |      |      |        |      |
|             | H) Trigger Pull Test & Retainability                        |          |      |      |      |      |        |      |
|             | I) Firing Pin Indent                                        |          |      |      |      |      |        |      |
|             | J) Assemble Stock                                           |          |      |      |      |      | 1/4/94 | RW   |
|             | K) Assemble Swivel Studs                                    |          |      |      |      |      | 1/4/94 | RW   |
|             | L) Attach Front and Rear Sight Assemblies                   |          |      |      |      |      |        |      |
|             | M) Iron Sight Alignment                                     |          |      |      |      |      |        |      |
|             | N) Detach Front & Rear Sights & place in numbered container |          |      |      |      |      |        |      |
|             | O) Attach Scope to Rifle                                    |          |      |      |      |      |        |      |
|             | P) Detach & Attach Scope 20 Times                           |          |      |      |      |      |        |      |
| 640         | Gallery Target & Test                                       |          |      |      |      |      | 1/4/94 | RW   |
|             | A) Time                                                     |          |      |      |      |      |        |      |
|             | B) Malfunctions                                             |          |      |      |      |      |        |      |
|             | C) Pierced Primers                                          |          |      |      |      |      |        |      |
|             | D) Optical Clarity of Scope                                 |          |      |      |      |      |        |      |
| 645         | Inspect for Live Ammo                                       |          |      |      |      |      | 1/4/94 | RW   |
| 655         | Final Inspection                                            |          |      |      |      |      |        |      |
|             | A) Headspace                                                |          |      |      |      |      | 1/4/94 | RW   |
|             | B) Trigger Pull                                             | 2.56     | 2.64 | 2.44 | 2.58 | 2.49 | 1/4/94 | RW   |
|             | C) Function                                                 |          |      |      |      |      | 1/4/94 | RW   |
| 660         | Pack                                                        |          |      |      |      |      |        |      |

CENTROIDAL DISTANCE CALCULATIONS  
FOR RIFLE # C6225331  
11 Jan 1994

CENTROIDAL DISTANCES

|      |   |         |
|------|---|---------|
| 0 TO | 1 | .387386 |
| 1 TO | 2 | .549845 |
| 1 TO | 3 | .715969 |
| 1 TO | 4 | 1.28536 |
| 1 TO | 5 | .547814 |

2 1  
3 5  
4

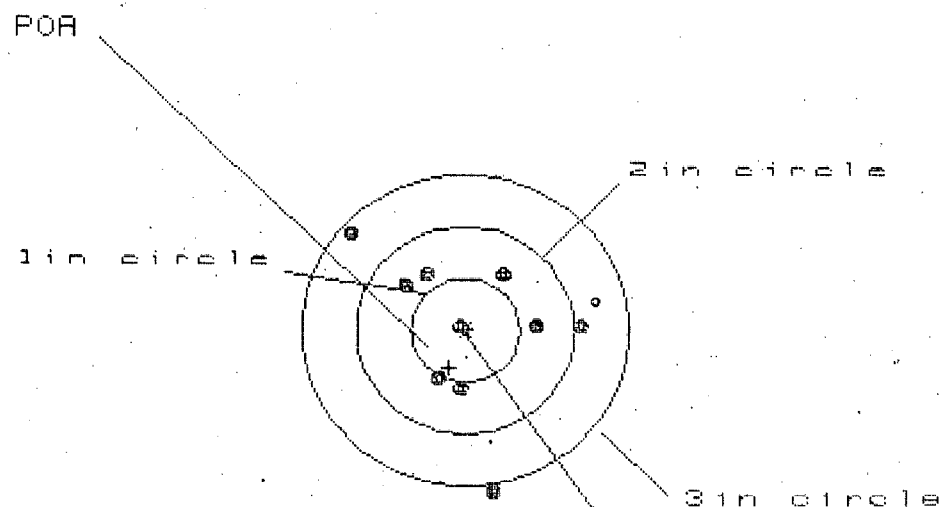
<----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.37  
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .0872  
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .380137  
THE AMR FOR THIS RIFLE IS: .9096

11 Jan 1994

FILE:/PATTERNING/CENTERFIRE\_PATT/C6225331

## CENTERFIRE PATTERNS # 1



# OF SHOTS - 10

# IN CIR

1in = 1

2in = 7

3in = 9

HS = 2.089

VS = 2.545

GS = 2.860

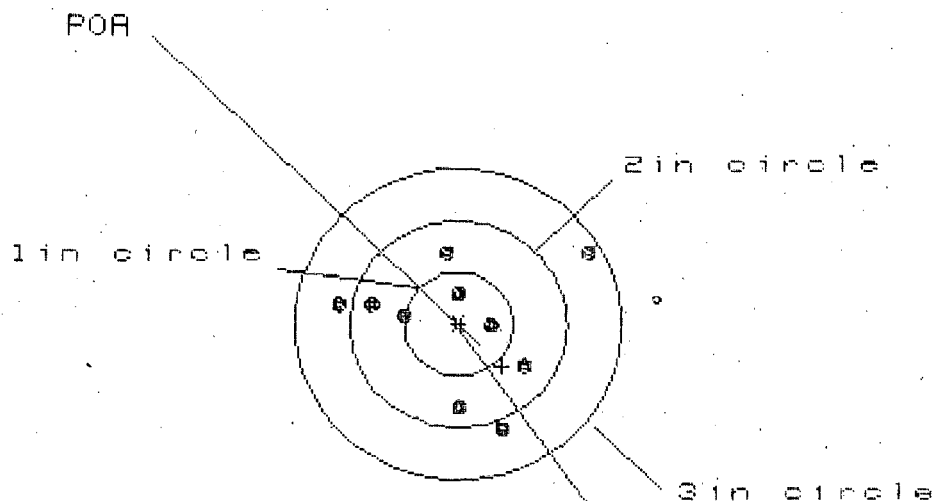
CENTROID #

| PATTERN #                     | 1      | 2      | 3     |
|-------------------------------|--------|--------|-------|
| SHOTS (BEST OF)               | 10     | 9      | 8     |
| MAXIMUM X                     | 1.058  | 1.088  | .963  |
| MINIMUM X                     | -1.031 | -1.001 | -.660 |
| MAXIMUM Y                     | .987   | .813   | .495  |
| MINIMUM Y                     | -1.558 | -.716  | -.614 |
| CENTROID X                    | .148   | .118   | .243  |
| CENTROID Y                    | .358   | .532   | .430  |
| POR TO CENTROID in.           | .388   | .545   | .494  |
| MIN RADIUS                    | .079   | .176   | .186  |
| MEAN RADIUS                   | .789   | .697   | .616  |
| MAX RADIUS                    | 1.582  | 1.290  | .963  |
| HORIZONTAL SPREAD             | 2.089  | 2.089  | 1.623 |
| VERTICAL SPREAD               | 2.545  | 1.529  | 1.109 |
| EXTREME SPREAD                | 2.860  | 2.284  | 1.662 |
| NUMBER IN ONE INCH CIRCLE =   | 1      |        |       |
| NUMBER IN TWO INCH CIRCLE =   | 7      |        |       |
| NUMBER IN THREE INCH CIRCLE = | 9      |        |       |

11 Jan 1994

FILE:/PATTERNING/CENTERFIRE\_PATT/C6225331

## CENTERFIRE PATTERNS # 2



# OF SHOTS - 10

# IN CIR

1 in - 2

2 in - 7

3 in - 10

HS = 2.244

VS = 1.790

GS = 2.311

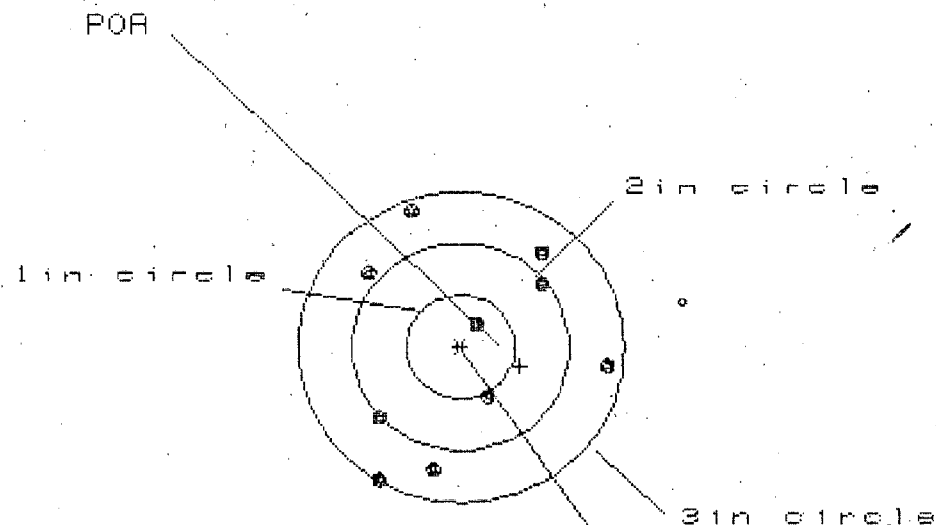
CENTROID #

| PATTERN #                     | 10     | 9     | 8     |
|-------------------------------|--------|-------|-------|
| SHOTS (BEST OF)               | 10     | 9     | 8     |
| MAXIMUM X                     | 1.171  | .777  | .846  |
| MINIMUM X                     | -1.073 | -.943 | -.874 |
| MAXIMUM Y                     | .740   | .788  | .667  |
| MINIMUM Y                     | -1.050 | -.968 | -.814 |
| CENTROID X                    | -.400  | -.530 | -.599 |
| CENTROID Y                    | .403   | .321  | .442  |
| POA TO CENTROID in.           | .568   | .620  | .744  |
| MIN RADIUS                    | .295   | .414  | .304  |
| MEAN RADIUS                   | .782   | .714  | .639  |
| MAX RADIUS                    | 1.386  | 1.113 | .971  |
| HORIZONTAL SPREAD             | 2.244  | 1.720 | 1.720 |
| VERTICAL SPREAD               | 1.790  | 1.756 | 1.481 |
| EXTREME SPREAD                | 2.311  | 1.940 | 1.830 |
| NUMBER IN ONE INCH CIRCLE =   |        | 2     |       |
| NUMBER IN TWO INCH CIRCLE =   |        | 7     |       |
| NUMBER IN THREE INCH CIRCLE = |        | 10    |       |

11 Jan 1994

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## CENTERFIRE PATTERNS # 3



# OF SHOTS- 10

# IN CIR

1in = 1

2in = 3

3in = 10

HS= 2.192

VS= 2.565

GS= 2.587

CENTROID \*

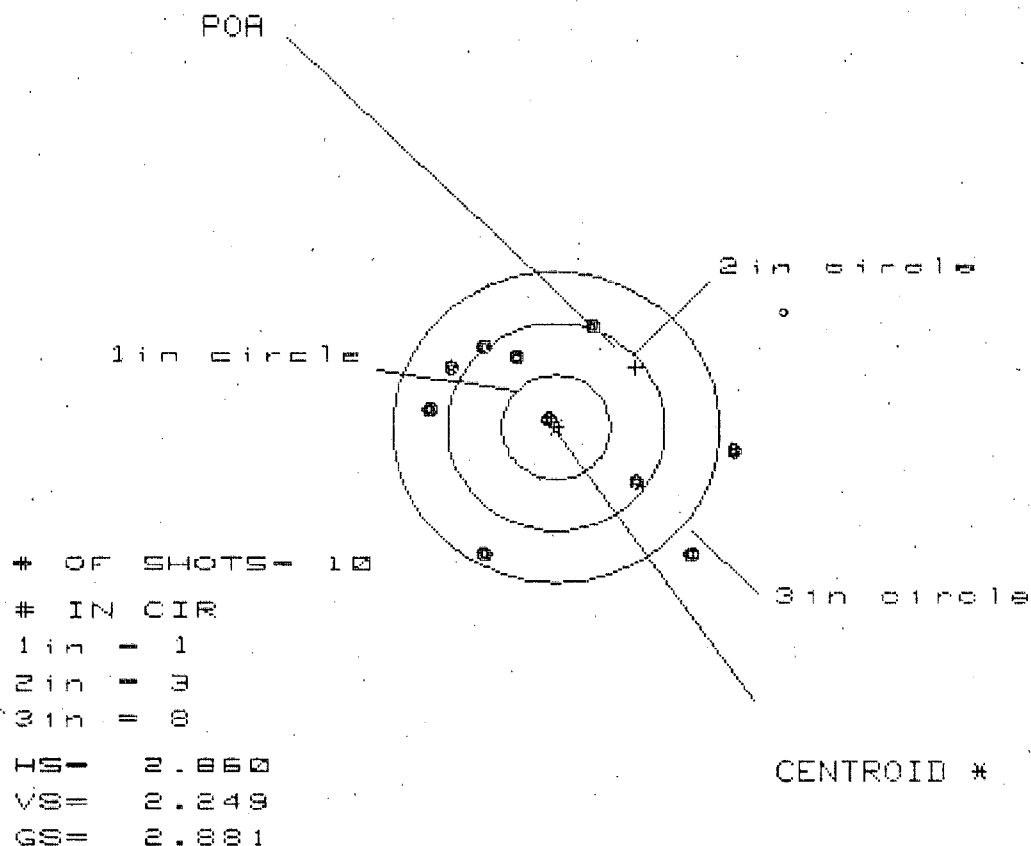
| PATTERN #                     | 3      | 3      | 3      |
|-------------------------------|--------|--------|--------|
| SHOTS (BEST OF)               | 10     | 9      | 8      |
| MAXIMUM X                     | 1.342  | 1.259  | 1.185  |
| MINIMUM X                     | -.850  | -.933  | -1.006 |
| MAXIMUM Y                     | 1.316  | 1.177  | .897   |
| MINIMUM Y                     | -1.249 | -1.280 | -1.132 |
| CENTROID X                    | -.546  | -.463  | -.389  |
| CENTROID Y                    | .182   | .321   | .173   |
| POA TO CENTROID in.           | .575   | .563   | .426   |
| MIN RADIUS                    | .223   | .063   | .216   |
| MEAN RADIUS                   | 1.049  | .979   | .937   |
| MAX RADIUS                    | 1.455  | 1.332  | 1.267  |
| HORIZONTAL SPREAD             | 2.192  | 2.192  | 2.192  |
| VERTICAL SPREAD               | 2.565  | 2.457  | 2.030  |
| EXTREME SPREAD                | 2.587  | 2.466  | 2.391  |
| NUMBER IN ONE INCH CIRCLE =   | 1      |        |        |
| NUMBER IN TWO INCH CIRCLE =   | 3      |        |        |
| NUMBER IN THREE INCH CIRCLE = | 10     |        |        |

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## CENTERFIRE PATTERNS

# 4

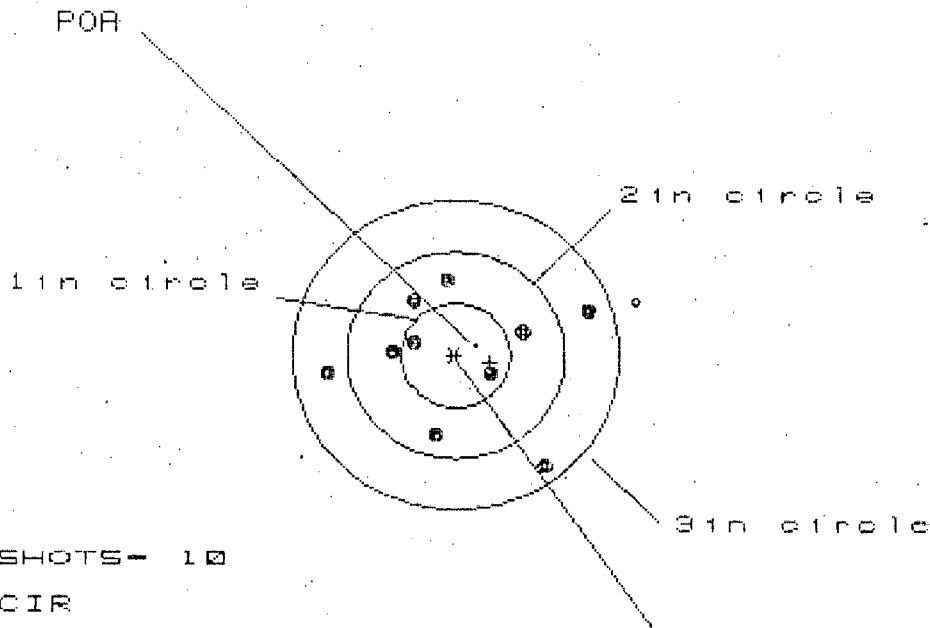


| PATTERN #                     | 10     | 9      | 8      |
|-------------------------------|--------|--------|--------|
| SHOTS (BEST OF)               | 10     | 9      | 8      |
| MAXIMUM X                     | 1.646  | 1.782  | 1.102  |
| MINIMUM X                     | -1.214 | -1.078 | -.855  |
| MAXIMUM Y                     | .977   | .836   | .795   |
| MINIMUM Y                     | -1.272 | -1.413 | -1.454 |
| CENTROID X                    | -.734  | -.870  | 1.093  |
| CENTROID Y                    | -.577  | -.436  | -.395  |
| POA TO CENTROID in.           | .933   | .974   | 1.162  |
| MIN RADIUS                    | .109   | .112   | .296   |
| MEAN RADIUS                   | 1.116  | 1.004  | .876   |
| MAX RADIUS                    | 1.764  | 1.813  | 1.488  |
| HORIZONTAL SPREAD             | 2.860  | 2.860  | 1.957  |
| VERTICAL SPREAD               | 2.249  | 2.249  | 2.249  |
| EXTREME SPREAD                | 2.881  | 2.881  | 2.481  |
| NUMBER IN ONE INCH CIRCLE =   | 1      |        |        |
| NUMBER IN TWO INCH CIRCLE =   | 3      |        |        |
| NUMBER IN THREE INCH CIRCLE = | 6      |        |        |

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## CENTERFIRE PATTERNS # 5



# OF SHOTS- 10

# IN CIR

1in = 2

2in = 7

3in = 10

HS= 2.484

VS= 1.889

GS= 2.565

CENTROID #

| PATTERN #                     | 15     | 16     | 17    |
|-------------------------------|--------|--------|-------|
| SHOTS (BEST OF)               | 10     | 9      | 8     |
| MAXIMUM X                     | 1.253  | 1.342  | .870  |
| MINIMUM X                     | -1.231 | -1.142 | -.975 |
| MAXIMUM Y                     | .724   | .603   | .643  |
| MINIMUM Y                     | -1.086 | -.864  | -.825 |
| CENTROID X                    | -.318  | -.407  | -.574 |
| CENTROID Y                    | .070   | .190   | .151  |
| POR TO CENTROID in.           | .325   | .449   | .594  |
| MIN RADIUS                    | .297   | .340   | .189  |
| MEAN RADIUS                   | .812   | .731   | .623  |
| MAX RADIUS                    | 1.348  | 1.378  | 1.015 |
| HORIZONTAL SPREAD             | 2.484  | 2.484  | 1.945 |
| VERTICAL SPREAD               | 1.889  | 1.467  | 1.467 |
| EXTREME SPREAD                | 2.565  | 2.565  | 1.895 |
| NUMBER IN ONE INCH CIRCLE =   | 2      |        |       |
| NUMBER IN TWO INCH CIRCLE =   | 7      |        |       |
| NUMBER IN THREE INCH CIRCLE = | 10     |        |       |