



C6522156

MODEL 700™ M24

Model **SMS**™

Action

Barrel Length

Capacity

Order No. **5716**

*Includes 1 in chamber.



Arms Services Repair & Estimate System

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

Repair Inquiry

Repair Number: RE00151235

Serial: C6522156 Model M24 SWS Center Fire
Caliber: 7.62 NATO

Repairman:

Status:

Closed 9/16/2008 2:28:54 PM

Verify Repair

Address Information

Customer:

☒ Received From

Return To:

☐ Received From

Name: ISD ARMSROOM

ISD ARMSROOM

Address 1: 8TH DESERT STORM

8TH DESERT STORM

Address 2: BLDG 5210 BAY DOOR #30

PO Box:

BLDG 5210 BAY DOOR #30

PO Box:

City: FORT CAMPBELL

FORT CAMPBELL

State: KY

Zip Code: 42223

Country: US

State: KY

Zip Code: 42223

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
D000	FRT SGT BASE	1

Repair Search

Refresh

Close

nagletj

9/16/2008

3:28 PM

CAPS

NUM

INS

SCRL



Serial Number: C6522156

Model M24 SWS

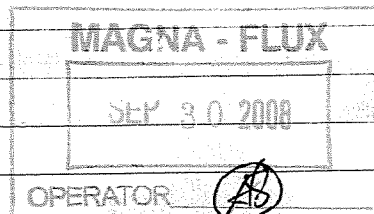


RE00151235

M-24 INSPECTION CHECKLIST
CONTRACT DAAE-20-02-C-0149

PART NUMBER 151235
 SERIAL NUMBER C6522156
 LOG-IN DATE 9-16-08

OPERATION #	OPERATION NAME	DATE	INITIAL
500	DIS-ASSEMBLE GUN	9-18-08	RTZ
505	RE-BARREL	9-22-08	RTZ
560	ASSEMBLE	9-22-08	RTZ
600	PROOF	9-22-08	SPD
605	CHECK HEADSPACE	9-22-08	SPD
610	DIS-ASSEMBLE GUN	9-22-08	SPD
612	MAGNAFLUX	9/20/08	(RB)
510	DRILL AND TAP	9-23-08	JP
615	ROLLMARK CALIBER	9/30/08	RT
618	ROTO-BLAST		
620	APPLY COATINGS	10/1	✓
625	FINAL ASSEMBLY	10-7-08	RTZ
640	FUNCTION TEST AND	10-9-08	TL
650	TARGET	10-9-08	TL
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
670	FINAL INSPECTION	10-9-08	L 92
	A) HEADSPACE	10-22-08	L 91
		10-22-08	L 92
	B) TRIGGER PULL	2.67 2.56 2.57 2.62 2.57	10/16/08 FM
	C) SAFETY ON FORCE	4.0 4.5 4.5	10-22-08 L 92
	D) SAFETY OFF FORCE	4.0 4.0 4.5	10-22-08 L 92
	E) FIRING PIN INDENT	.025 .025 .025	10-22-08 L 92
690	PACK	10/31/08	FM



PASS FAIL
 PASS FAIL

N/A

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6522156.___0

FILE DATE AND TIME: 10/09/2008 15:38

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	-0.150
The Average Y Centroid of the Five Target Set:	-0.024
The Average Point of Impact of the Five Target Set:	0.152
The Average Mean Radius of the Five Target Set:	0.692
The Distance from POA to Centroid Target #1:	0.256
The Distance from Centroid Target #2 to Centroid Target #1:	0.164
The Distance from Centroid Target #3 to Centroid Target #1:	0.257
The Distance from Centroid Target #4 to Centroid Target #1:	0.142
The Distance from Centroid Target #5 to Centroid Target #1:	0.171

SERIAL NUMBER: C6522156. __0

TARGET NUMBER: 1

FILE DATE: 10/09/2008

FILE TIME: 15:38

POINT#	X	Y
1:	-0.603	1.130
2:	-0.619	-0.634
3:	1.168	-0.380
4:	0.802	-0.577
5:	0.398	-0.306
6:	0.061	0.334
7:	-1.243	0.127
8:	-1.036	0.239
9:	-0.725	-0.145
10:	-0.749	-0.092

X CENTROID: -0.255

Y CENTROID: -0.030

POA TO CENTROID: 0.256

HORZ SPREAD: 2.411

VERT SPREAD: 1.764

GROUP SPREAD: 2.464

MIN RADIUS: 0.482

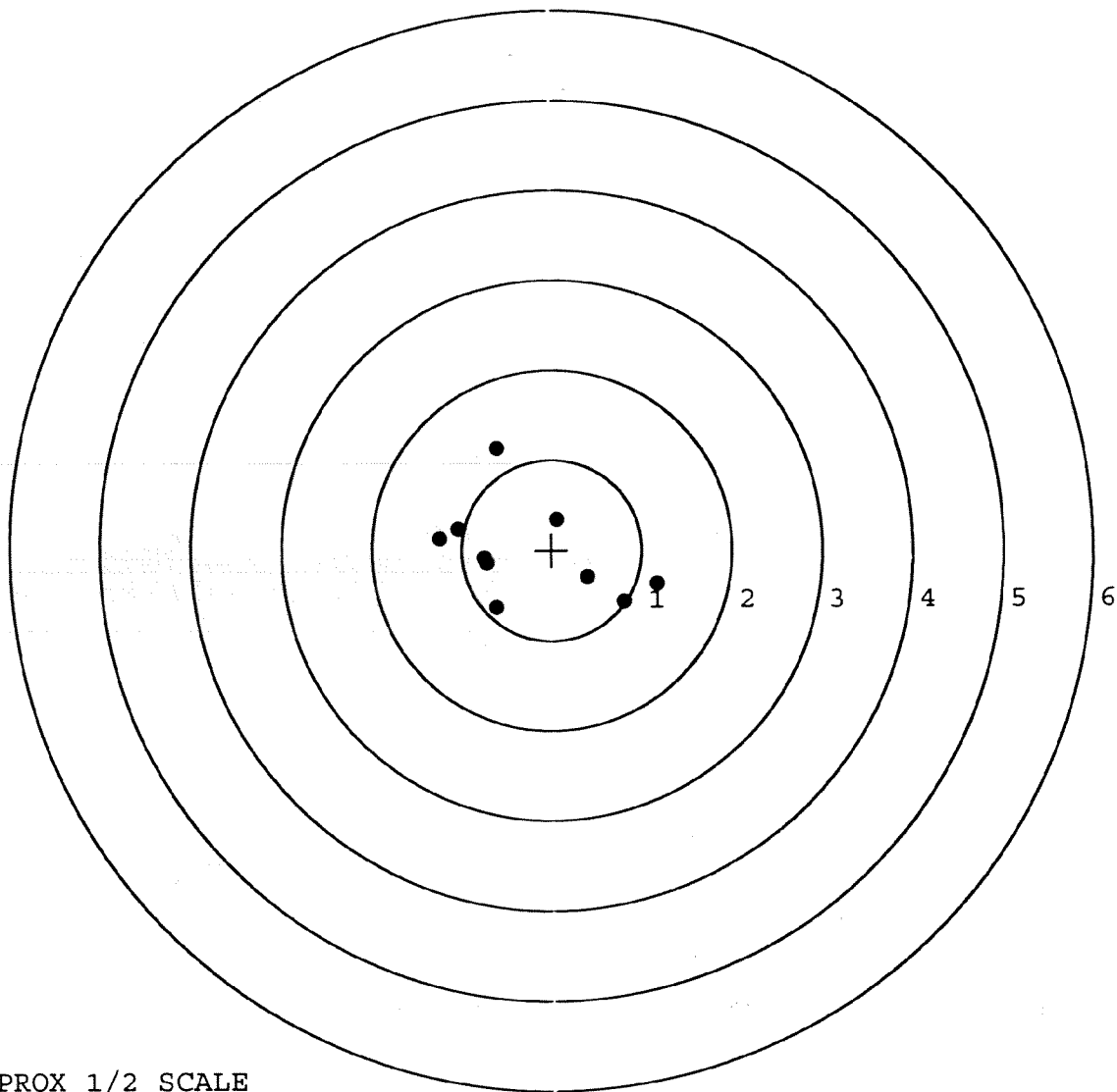
MAX RADIUS: 1.465

MEAN RADIUS: 0.857

IN 1 IN DIAMETER: 3

IN 2 IN DIAMETER: 6

in 3 IN DIAMETER: 10



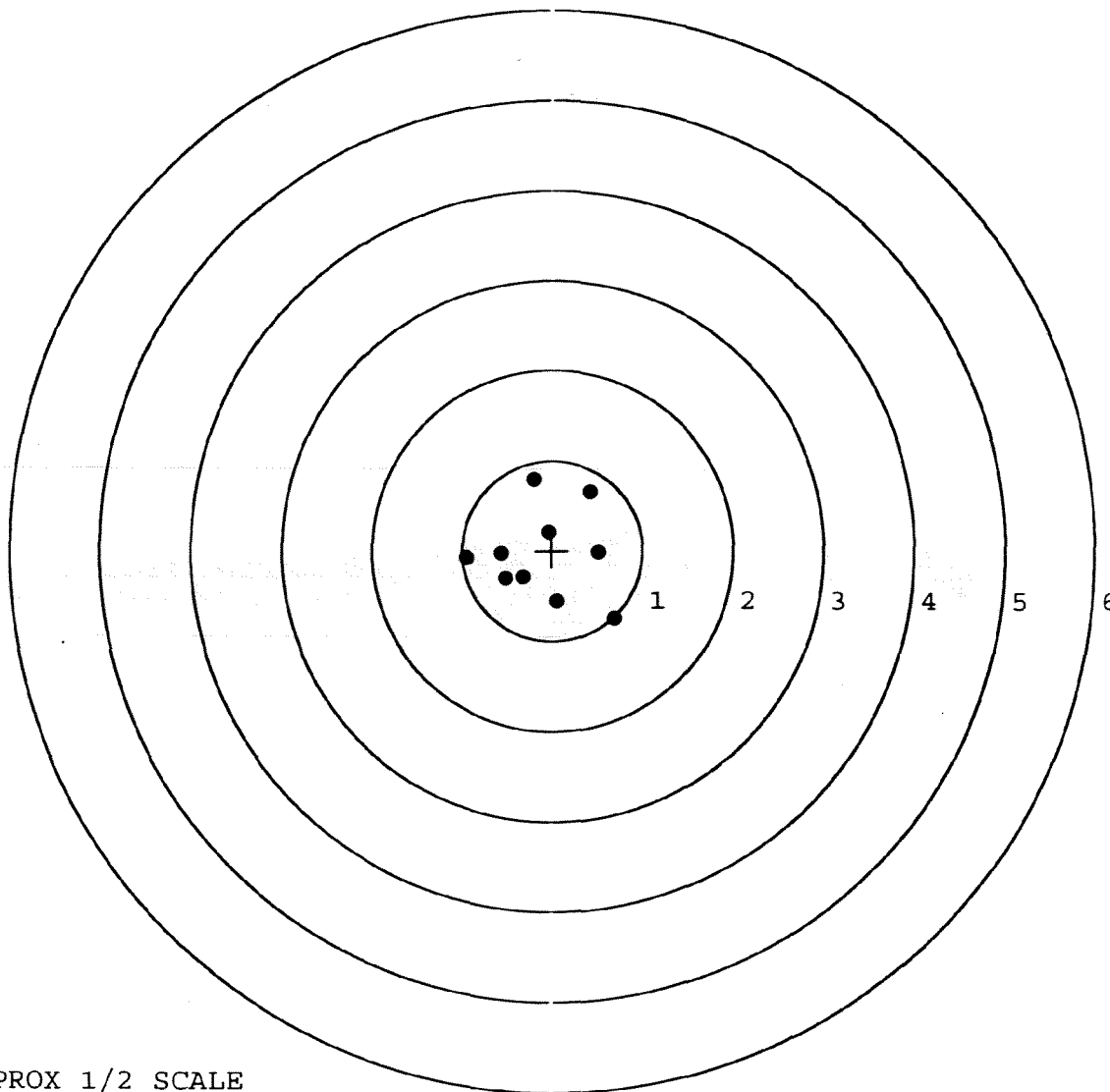
TARGET APPROX 1/2 SCALE

BARBER - M24 0003810

SERIAL NUMBER: C6522156. __0
 TARGET NUMBER: 2
 FILE DATE: 10/09/2008
 FILE TIME: 15:38

POINT#	X	Y
1:	0.691	-0.754
2:	-0.204	0.791
3:	0.424	0.659
4:	0.514	-0.015
5:	-0.034	0.205
6:	-0.953	-0.084
7:	0.057	-0.572
8:	-0.566	-0.027
9:	-0.514	-0.312
10:	-0.321	-0.295

X CENTROID: -0.091
 Y CENTROID: -0.040
 POA TO CENTROID: 0.099
 HORZ SPREAD: 1.644
 VERT SPREAD: 1.545
 GROUP SPREAD: 1.786
 MIN RADIUS: 0.252
 MAX RADIUS: 1.058
 MEAN RADIUS: 0.636
 # IN 1 IN DIAMETER: 3
 # IN 2 IN DIAMETER: 9
 # in 3 IN DIAMETER: 10



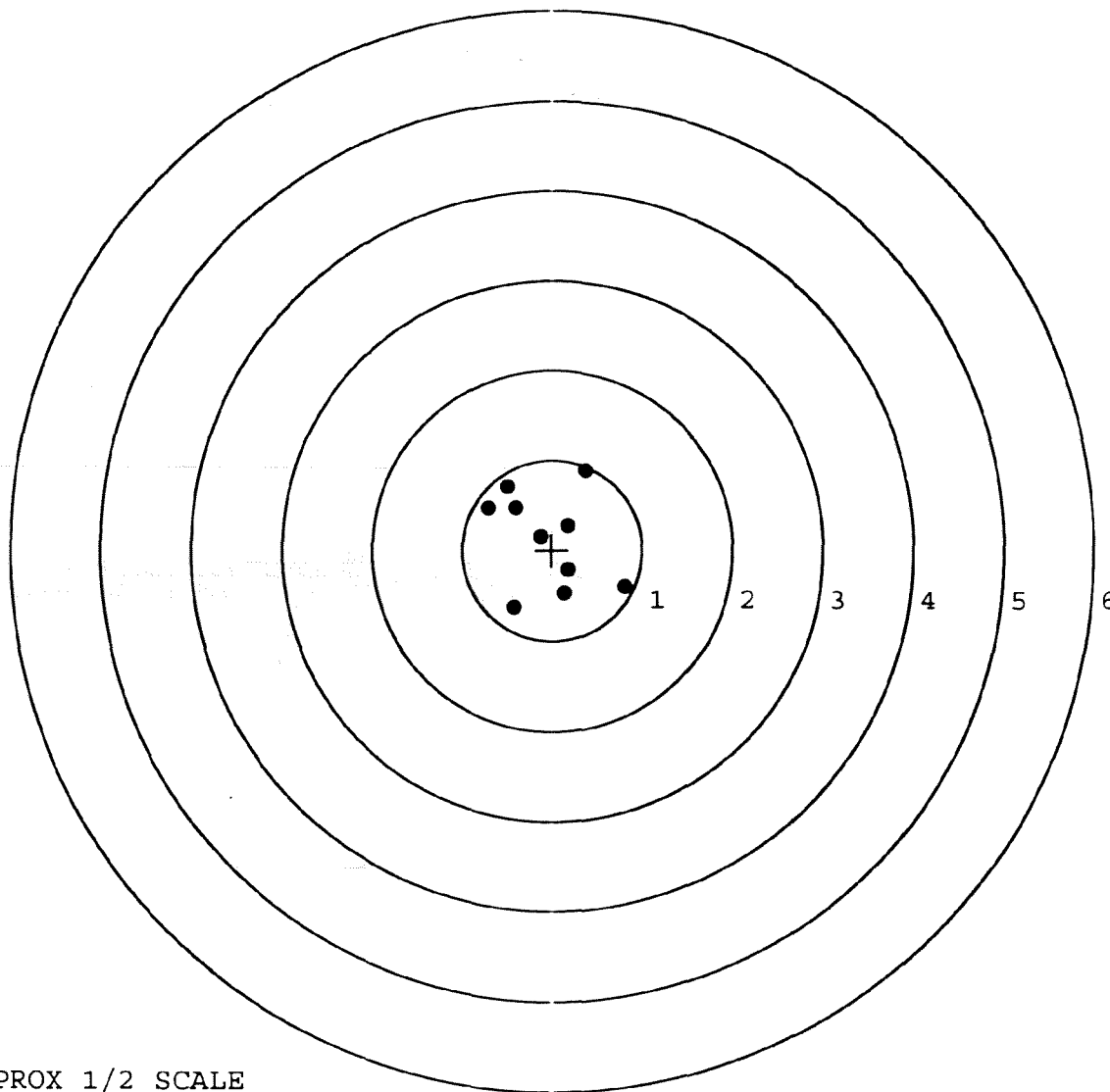
TARGET APPROX 1/2 SCALE

BARBER - M24 0003811

SERIAL NUMBER: C6522156. __0
 TARGET NUMBER: 3
 FILE DATE: 10/09/2008
 FILE TIME: 15:38

POINT#	X	Y
1:	0.380	0.883
2:	-0.425	-0.639
3:	-0.498	0.704
4:	-0.709	0.472
5:	0.813	-0.409
6:	0.139	-0.481
7:	-0.405	0.471
8:	0.183	-0.221
9:	-0.124	0.150
10:	0.178	0.272

X CENTROID: -0.047
 Y CENTROID: 0.120
 POA TO CENTROID: 0.129
 HORZ SPREAD: 1.522
 VERT SPREAD: 1.522
 GROUP SPREAD: 1.759
 MIN RADIUS: 0.083
 MAX RADIUS: 1.010
 MEAN RADIUS: 0.612
 # IN 1 IN DIAMETER: 3
 # IN 2 IN DIAMETER: 9
 # in 3 IN DIAMETER: 10

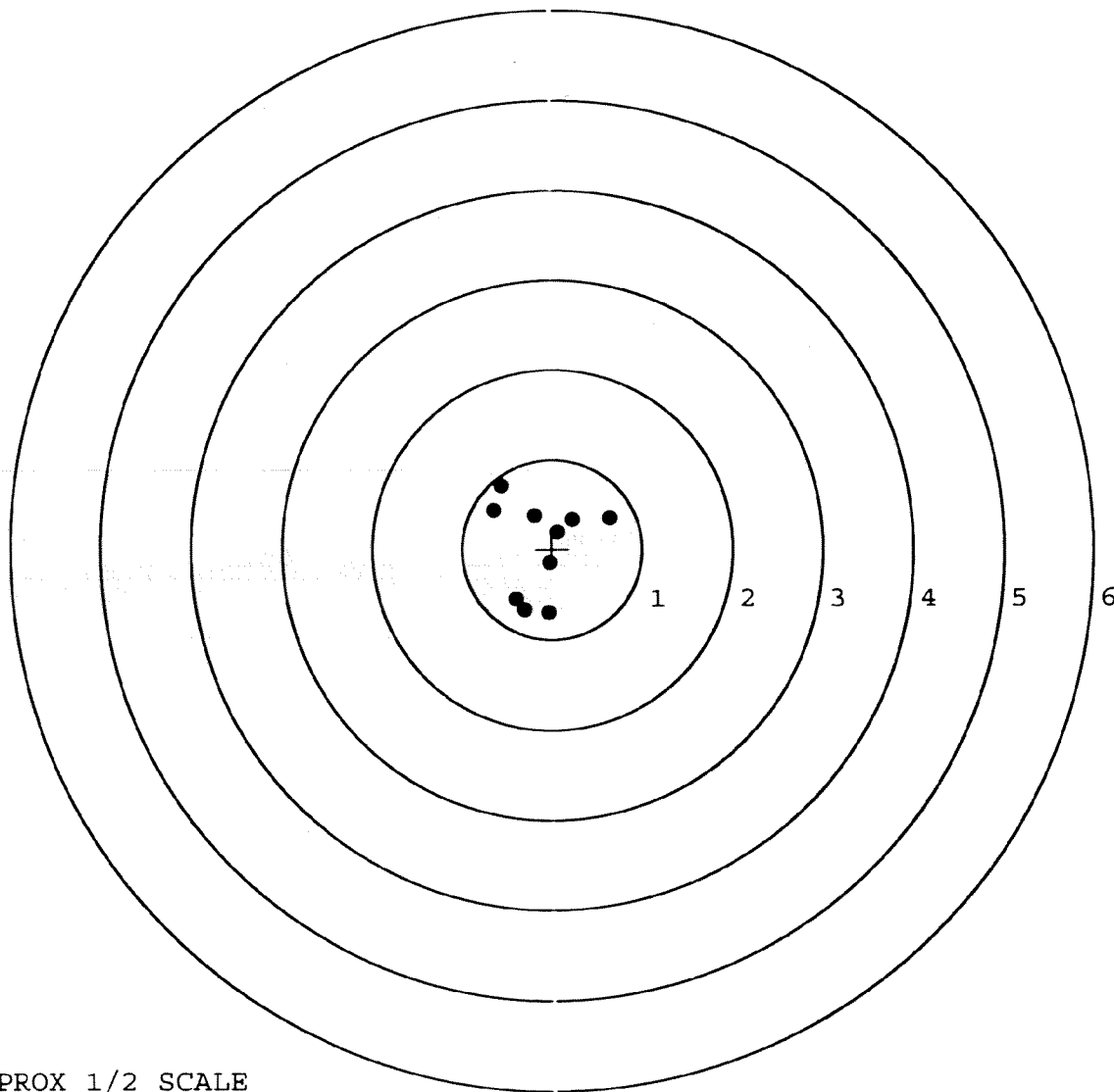


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6522156. __0
 TARGET NUMBER: 4
 FILE DATE: 10/09/2008
 FILE TIME: 15:38

POINT#	X	Y
1:	-0.565	0.709
2:	-0.651	0.437
3:	0.646	0.346
4:	-0.406	-0.556
5:	-0.310	-0.675
6:	-0.040	-0.707
7:	-0.031	-0.156
8:	-0.195	0.378
9:	0.228	0.328
10:	0.061	0.190

X CENTROID: -0.126
 Y CENTROID: 0.029
 POA TO CENTROID: 0.130
 HORZ SPREAD: 1.297
 VERT SPREAD: 1.416
 GROUP SPREAD: 1.399
 MIN RADIUS: 0.208
 MAX RADIUS: 0.835
 MEAN RADIUS: 0.570
 # IN 1 IN DIAMETER: 4
 # IN 2 IN DIAMETER: 10
 # in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6522156. __0

TARGET NUMBER: 5

FILE DATE: 10/09/2008

FILE TIME: 15:38

POINT#	X	Y
1:	-0.126	1.646
2:	-0.993	0.239
3:	-0.974	-0.304
4:	-0.725	-0.180
5:	0.471	-1.233
6:	0.229	-1.031
7:	-0.250	-0.865
8:	0.484	0.018
9:	-0.195	-0.010
10:	-0.241	-0.277

X CENTROID: -0.232

Y CENTROID: -0.200

POA TO CENTROID: 0.306

HORZ SPREAD: 1.477

VERT SPREAD: 2.879

GROUP SPREAD: 2.940

MIN RADIUS: 0.078

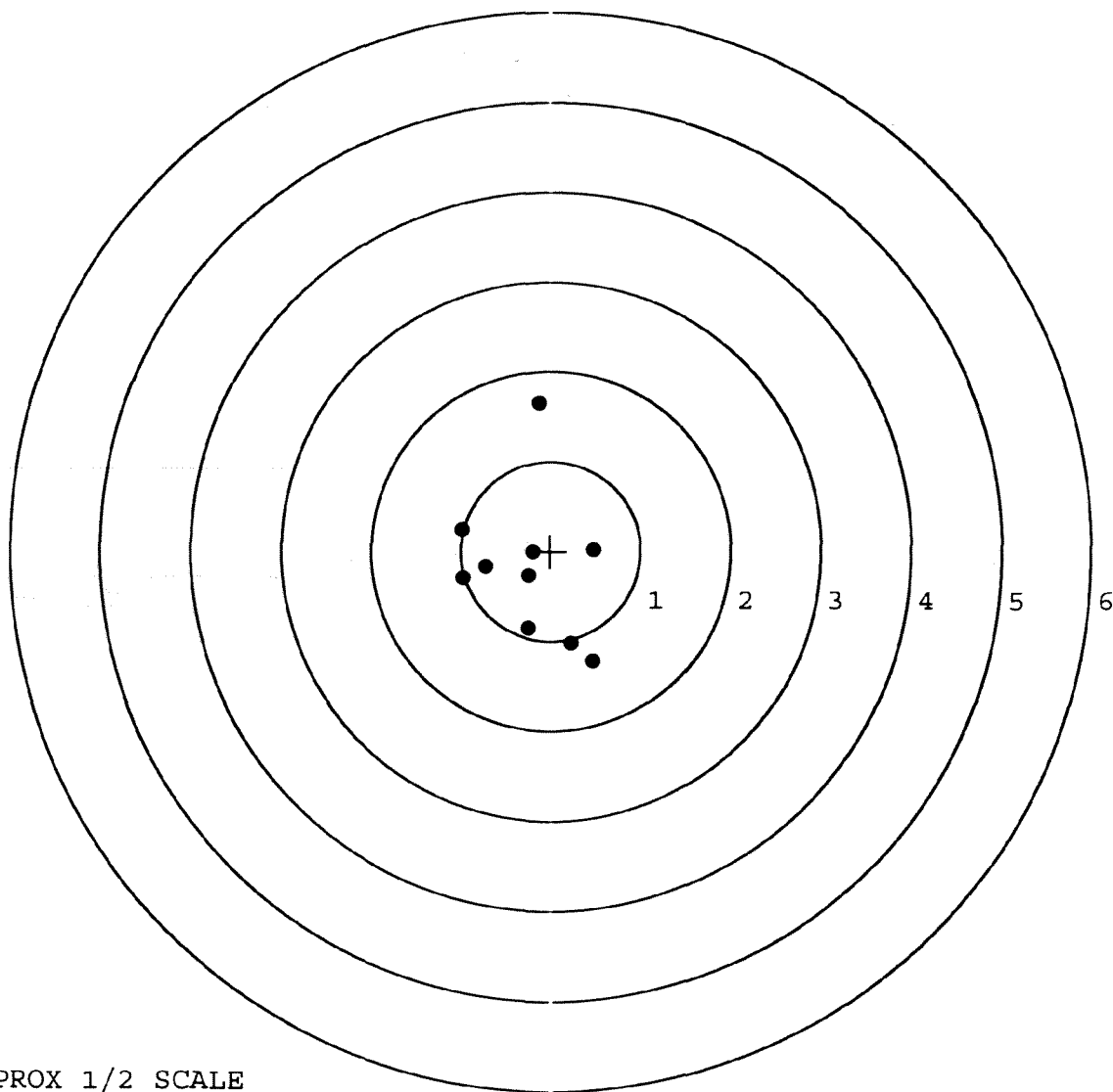
MAX RADIUS: 1.849

MEAN RADIUS: 0.786

IN 1 IN DIAMETER: 3

IN 2 IN DIAMETER: 8

in 3 IN DIAMETER: 9



TARGET APPROX 1/2 SCALE

MOD. _____		GA. CAL. _____	GUN # _____
# TEST	DATE	MALFUNCTION/DEFECT	ASSEM. #
	1st 9/10/90	CG522156 hole in stock	KS
	2nd	Repaired	KS 9/10/90
	3rd		
	4th		

FUNCTION _____ RD 6654 Rev 1

TEST INIT. ACTION TO CORRECT		ASSEM. #
PROOF		
TEST		
TGT		
PROOF		
TEST		
TGT		
PROOF	ENGINEER	
TEST		
TGT		
PROOF	ENGINEER	
TEST		
TGT		

RECEIVED BARBER EN2240003855 REPORT

COMMENTS

ORDER

R 99-09163

INITIAL CUSTOMER ORDER NO.

SWS 385

DATE RECEIVED

DATE OPENED

DATE CODE

SERIAL NUMBER

NEW SERIAL NUMBER

MODEL AND GRADE

04/07/99

04/08/99

WK 8-90

C6522156

700 7.62

M24

ACCESSORIES

W/STUDS

SCOPE BASE

FROM:

US ARMY
ATTN: JAMES C STARNES JR
GSC 5TH SFG (A)
FORT CAMPBELL

KY 42223

SHIP TO:

US ARMY
ATTN: JAMES C STARNES JR
GSC 5TH SFG (A)
FORT CAMPBELL

KY

42223

CUST NO: 208414 C.O.D.

ACCOUNT NUMBER

ACCOUNT NUMBER N/C

WRITE ☐

PROM. DATE

ESTIMATED

VIA

DOOR

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

C1

D3

E5

F5

METAL

C2

MAIN FAULT

PARTS

COMMENTS

Barrel
Extractor

96003
91816

REPAIRMAN

PROOF

CLEAN

TEST

TARGET

PATTERN

GALLERY TESTER

DATE

DATE

DATE

DATE

DATE

OFFICE COPY

FD6925 REV. 7/97

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

BARBER - M24 0000003855

Receipt Of Firearm(s) Delivered to the Plant for Repair
Firearm Checked For Live Ammunition []

File # 00385

Delivery Date 4/7/99Customer Name (Print) US Army James C Starns JR
Address 55C 5th SFG Ft Campbell State KY Zip 42223
Phone Number (502)-798-2882/7932Firearm Description Model 700 (mag) Cal./ Ga. 7.62Serial Number C6522156

Stock/ Fore-end Condition circle the description

(Excellent; Good; Fair; Poor; Fancy; Plain; Synthetic; Wood)

Comments on Stock/ Fore-end condition _____

Metal Condition circle the description

(Excellent; Good; Fair; Poor; Fancy; Plain Stainless Steel)

Comments on Metal condition _____

Barrel Type (VT. Rib; Plain; Deer; Stainless Steel) Barrel length _____

List additional accessories IE Scope, Sling, Gun case and description; _____

Customer request: Recond/fining

Return Process Return to Clark St. Ent. [] Return via UPS [X]

By signing this receipt the person delivering the firearm understands to be the only person to receive the firearm upon completion of repairs.Signature James C Starns JR Date 4/7/99
person delivering firearmSignature [Signature] Date 4/7/99
security officerSignature Ang [Signature] Date 4/7/99
arms service / CSR

Customer Pick Up Verification

I certify, I am the same person whom delivered the above described firearm to the Remington Ilion plant for repair and may lawfully possess a firearm in New York StateSignature _____ Date ____/____/____
person receiving firearm must be the same whom deliveredSignature _____ Date ____/____/____
security officer or other witness returning the firearmReceipt Of Firearm. Doc
Rev. 12/16/98

ARM SERVICE COPY

BARBER - M24 0003818

Remington Test Lab, Ilion, N.Y.

Centroidal distance calculations for Rifle # c6522156
18 Jun 1999

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.0798

THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.05

THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .0941703

THE AMR FOR THIS RIFLE IS: 1.131

CENTROIDAL DISTANCES

0 TO 1	.197821
1 TO 2	.445315
1 TO 3	.245308
1 TO 4	.332519
1 TO 5	.343837

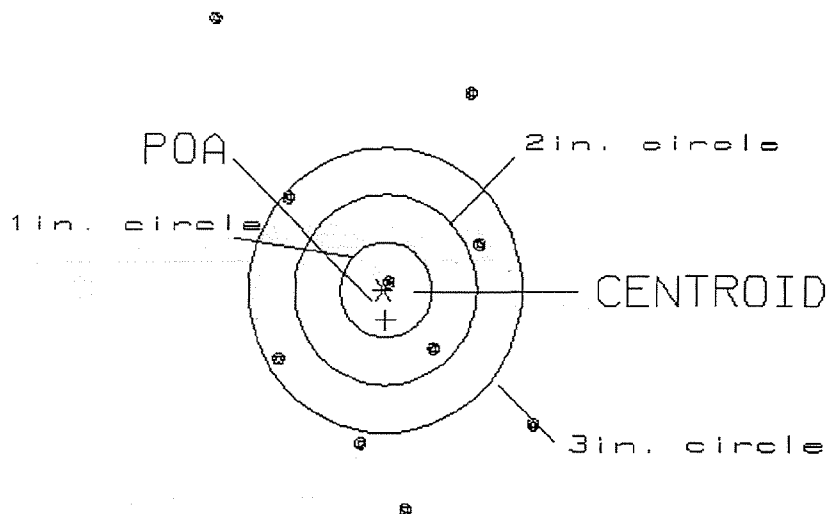
5
1 + 2 <----POA
4 3

PATTERN #: ☐ 1 ☐
 POA TO CENTROID: .319
 MIN RADIUS : .106
 MEAN RADIUS : 1.671
 MAX RADIUS : 3.472
 CENTROID X : -.029
 CENTROID Y : .318

18 Jun 1999

FILE:/Hpbasic/Accuracy/Patterning/Centerfire_Patt/c6522156

CENTERFIRE PATTERN # 1



OF SHOTS= 10

IN CIRCLE

HS=	3.52	1
VS=	5.21	2
GS=	5.61	5

BARBER - M24 0003820

REMINGTON CENTERFIRE ACCURACY TEST

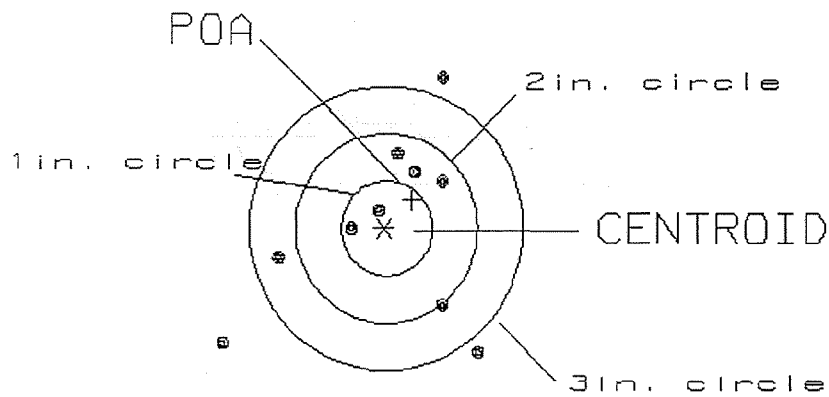
REMINGTON TEST LAB, ILION, N.Y.

PATTERN #: ☐ 2 ☐
 POA TO CENTROID: .428
 MIN RADIUS : .163
 MEAN RADIUS : 1.070
 MAX RADIUS : 2.200
 CENTROID X : -.312
 CENTROID Y : -.294

18 Jun 1999

FILE:/Hpbasic/Accuracy/Patterning/Centerfire_Patt/c6522156

CENTERFIRE PATTERN # 2



OF SHOTS= 10

IN CIRCLE

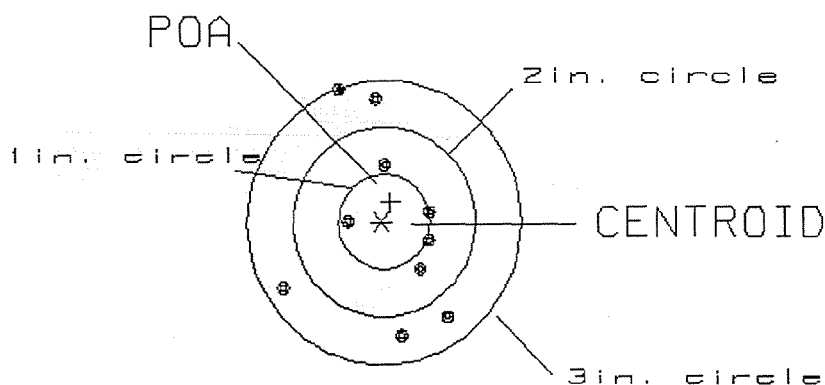
HS=	2.84	2
VS=	2.93	5
GS=	3.75	7

PATTERN #: ☐ 3 ☐
 POA TO CENTROID: .227
 MIN RADIUS : .390
 MEAN RADIUS : .908
 MAX RADIUS : 1.536
 CENTROID X : -.097
 CENTROID Y : -.206

18 Jun 1999

FILE:/Hpbasic/Accuracy/Patterning/Centerfire_Patt/c6522156

CENTERFIRE PATTERN # 3



OF SHOTS= 10

IN CIRCLE

HS= 1.75

3

VS= 2.66

5

GS= 2.76

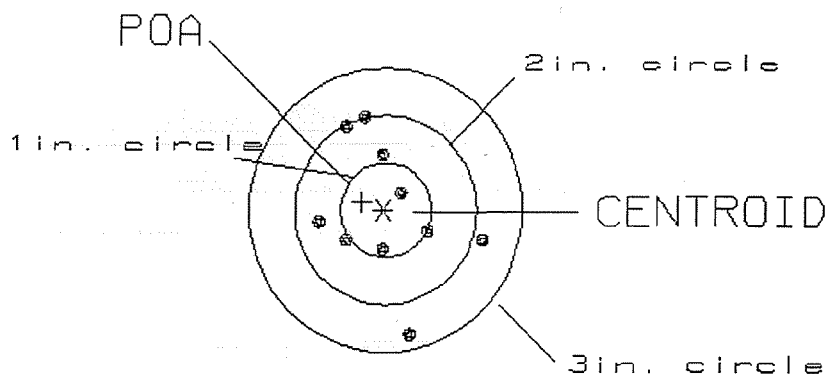
9

PATTERN #: ☐ 4 ☐
 POA TO CENTROID: .251
 MIN RADIUS : .262
 MEAN RADIUS : .763
 MAX RADIUS : 1.376
 CENTROID X : .236
 CENTROID Y : -.086

19 Jun 1999

FILE:/Hpbasic/Accuracy/Patterning/Centerfire_Patt/c6522156

CENTERFIRE PATTERN # 4



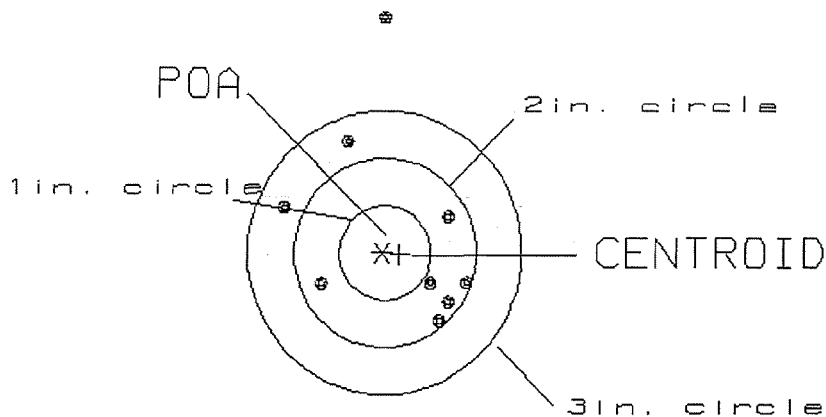
# OF SHOTS= 10	# IN CIRCLE
HS= 1.83	2
VS= 2.34	6
GS= 2.39	10

PATTERN #: ☐ 5 ☐
 POA TO CENTROID: .197
 MIN RADIUS : .579
 MEAN RADIUS : 1.242
 MAX RADIUS : 2.529
 CENTROID X : -.197
 CENTROID Y : .018

18 Jun 1999

FILE:/Hpbasic/Accuracy/Patterning/Centerfire_Patt/c6522156

CENTERFIRE PATTERN # 5



OF SHOTS= 10

IN CIRCLE

HS= 2.02

0

VS= 4.73

6

GS= 4.86

8

M-24

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C 6522156

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock		8/1/90	KS
600	Proof		8/1/90	KS
607	Check Headspace		8/1/90	KS
610	Dis-assemble Gun		8/1/90	KS
612	Magnaflux Barrel Action		8/6/90	KR
	Magnaflux Bolt		8/6/90	KR
615	Rollmark Caliber		8/6/90	SL
617	Drill and Tap Sight Holes		8/10/90	F.B.
618	Polish Barrel <i>WLB</i>		8/14/90	WLB
620	Apply Coatings (Barrel Action)		8-22-90	JA
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly			
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head			
	C) Inspect Ejector Hole for Chamfer			
	D) Oil Firing Pin Ass'y			
	E) Adjust Trigger Pull to Min Setting and Stake		9/6/90	WLB

op. #	OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	5	5	5			9/6/90	WB
	G) Safety Off Force	2 1/2	2 1/2	2 1/2			9/6/90	WB
	H) Trigger Pull Test & Retainability						9/6/90	WB
	I) Firing Pin Indent	1.024	.024	.024			9/6/90	WB
	J) Assemble Stock						9/7/90	KS
	K) Assemble Swivel Studs						9/13/90	KS
	L) Attach Front and Rear Sight Assemblies						9/7/90	KS
	M) Iron Sight Alignment						9/7/90	KS
	N) Detach Front & Rear Sights & place in numbered container						9/7/90	KS
	O) Attach Scope to Rifle						9/7/90	KS
	P) Detach & Attach Scope 20 Times						9/7/90	KS
640	Gallery Target & Test						9-10-90	AC
	A) Time						9-10-90	AC
	B) Malfunctions						9-10-90	AC
	C) Pierced Primers						9-10-90	AC
	D) Optical Clarity of Scope						9-10-90	AC
645	Inspect for Live Ammo						9-10-90	AC
655	Final Inspection							
	A) Headspace						9/13/90	KS
	B) Trigger Pull	2.38	2.30	2.24	2.19	2.17	9-12-90	KS
	C) Function						9/13/90	KS
660	Pack						9/18/90	KS

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# ± .50#

3.00# ± .75#

4.00# ± 1.00#

SERIAL NO. C6572156

DATE 9/6/90

TESTER WB

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.37	2.39	2.47	2.38	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.35	2.30	2.44	2.30	
PULL #3	2.33	2.34	2.47	2.24	
PULL #4	2.34	2.40	2.44	2.19	
PULL #5	2.36	2.31	2.44	2.17	
TOTAL	11.75	11.74	12.25	11.28	
AVG.	2.35	2.35	2.45	2.256	

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.17	3.21		
PULL #2	3.20	3.33		
PULL #3	3.21	3.16		
PULL #4	3.13	3.21		
PULL #5	3.21	3.19		
TOTAL	15.92	16.10		
AVG.	3.18	3.22		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.30	4.21		4.00
PULL #2	4.28	4.23		4.20
PULL #3	4.24	4.26		4.21
PULL #4	4.20	4.24		4.21
PULL #5	4.20	4.29		4.22
TOTAL	21.22	21.23		20.84
AVG.	4.24	4.24		4.17

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6522156
10 Sep 1990

CENTROIDAL DISTANCES

0 TO	1	.610099
1 TO	2	.725383
1 TO	3	.962972
1 TO	4	.554044
1 TO	5	.333096

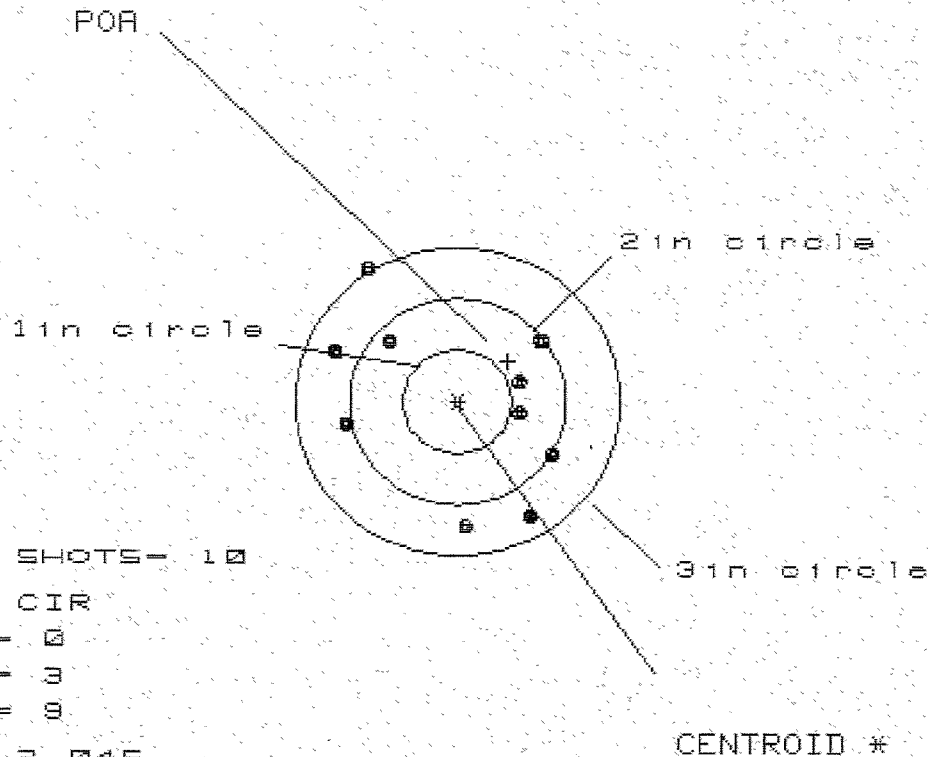
104 123 <----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.1782
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.0408
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .182811
THE AMR FOR THIS RIFLE IS: .8914

18 Sep 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6522156

CENTERFIRE PATTERNS # 1



OF SHOTS- 10

IN CIR

1in = 10

2in = 3

3in = 9

HS= 2.046

VS= 2.529

GS= 2.772

CENTROID *

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.904	.812	.814
MINIMUM X	-1.142	-1.234	-1.232
MAXIMUM Y	1.280	.778	.639
MINIMUM Y	-1.249	-1.107	-1.060
CENTROID X	-.470	-.378	-.380
CENTROID Y	-.389	-.531	-.392
POA TO CENTROID in.	.610	.651	.546
MIN RADIUS	.611	.502	.523
MEAN RADIUS	1.058	.986	.960
MAX RADIUS	1.524	1.365	1.310
HORIZONTAL SPREAD	2.046	2.046	2.046
VERTICAL SPREAD	2.529	1.885	1.699
EXTREME SPREAD	2.772	2.342	2.342
NUMBER IN ONE INCH CIRCLE =	10	9	8
NUMBER IN TWO INCH CIRCLE =	3	3	3
NUMBER IN THREE INCH CIRCLE =	9	9	9

18 Sep 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C8522156

CENTERFIRE PATTERNS

2

POA

1 in circle

2 in circle

3 in circle

CENTROID *

OF SHOTS- 10

IN CIR

1 in = 2

2 in = 8

3 in = 9

HS= 2.309

VS= 1.747

GS= 2.532

PATTERN #	:	2
SHOTS (BEST OF)	:	10
MAXIMUM X	:	.781
MINIMUM X	:	-1.528
MAXIMUM Y	:	.733
MINIMUM Y	:	-1.014
CENTROID X	:	.178
CENTROID Y	:	-.063
POA TO CENTROID in.	:	.189
MIN RADIUS	:	.292
MEAN RADIUS	:	.778
MAX RADIUS	:	1.598
HORIZONTAL SPREAD	:	2.309
VERTICAL SPREAD	:	1.747
EXTREME SPREAD	:	2.532
NUMBER IN ONE INCH CIRCLE	=	2
NUMBER IN TWO INCH CIRCLE	=	8
NUMBER IN THREE INCH CIRCLE	=	9

18 Sep 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6522156

CENTERFIRE PATTERNS # 3

POA

1in circle

2in circle

3in circle

CENTROID *

OF SHOTS- 10

IN CIR

1in = 3

2in = 5

3in = 10

HS= 2.287

VS= 1.644

GS= 2.817

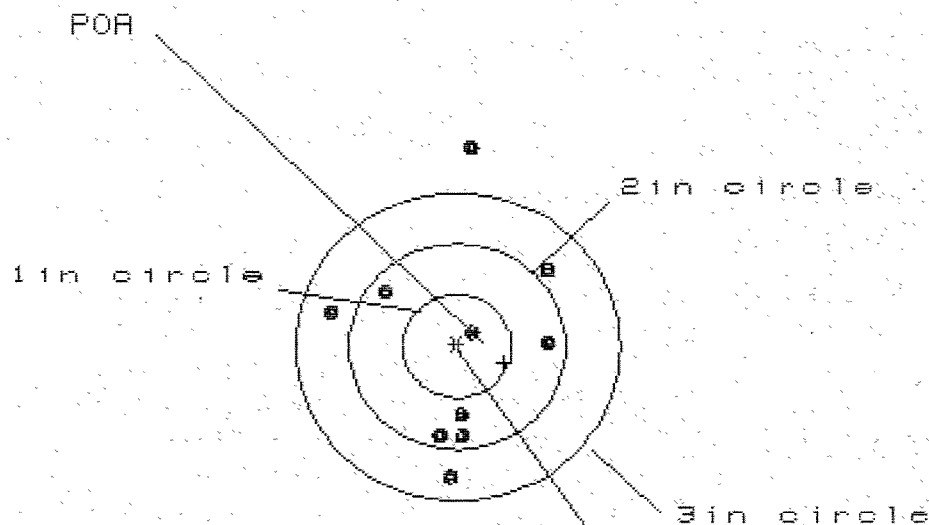
PATTERN #	:	3	9	8
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.141	1.014	1.046
MINIMUM X	:	-1.146	-1.270	-1.144
MAXIMUM Y	:	.833	.604	.514
MINIMUM Y	:	-.810	-.718	-.774
CENTROID X	:	.334	.461	.335
CENTROID Y	:	.141	.048	.138
POA TO CENTROID in.	:	.362	.464	.362
MIN RADIUS	:	.126	.077	.125
MEAN RADIUS	:	.837	.770	.695
MAX RADIUS	:	1.417	1.286	1.218
HORIZONTAL SPREAD	:	2.287	2.284	2.190
VERTICAL SPREAD	:	1.644	1.322	1.288
EXTREME SPREAD	:	2.817	2.342	2.303
NUMBER IN ONE INCH CIRCLE	=	3		
NUMBER IN TWO INCH CIRCLE	=	5		
NUMBER IN THREE INCH CIRCLE	=	10		

10 Sep 1990

FILE:/PATTERNING/CENTERFIRE_PATT/C6522150

CENTERFIRE PATTERNS

4



OF SHOTS= 10

IN CIR

1in = 1

2in = 5

3in = 9

HS= 2.023

VS= 3.216

GS= 3.224

CENTROID #

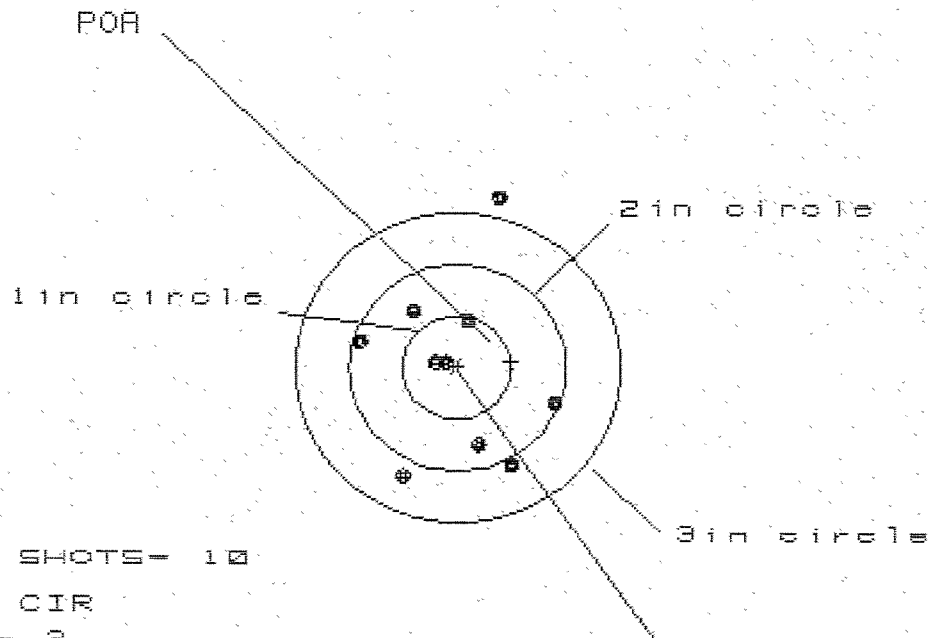
PATTERN #	4	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.860	.876	.867
MINIMUM X	-1.163	-1.147	-1.156
MAXIMUM Y	1.932	.964	.830
MINIMUM Y	-1.284	-1.070	-.818
CENTROID X	-.436	-.452	-.443
CENTROID Y	.164	-.051	.083
POA TO CENTROID in.	.466	.455	.451
MIN RADIUS	.179	.376	.250
MEAN RADIUS	.994	.863	.836
MAX RADIUS	1.937	1.302	1.245
HORIZONTAL SPREAD	2.023	2.023	2.023
VERTICAL SPREAD	3.216	2.034	1.648
EXTREME SPREAD	3.224	2.243	2.056
NUMBER IN ONE INCH CIRCLE =	1		
NUMBER IN TWO INCH CIRCLE =	6		
NUMBER IN THREE INCH CIRCLE =	9		

10 Sep 1990

FILE:/PATTERNING/CENTERFIRE_PATT/C8522156

CENTERFIRE PATTERNS

5



OF SHOTS= 10

IN CIR

1 in = 3

2 in = 7

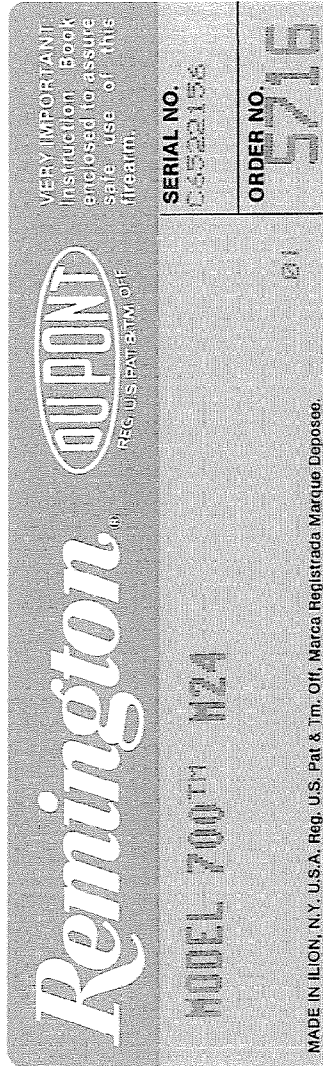
3 in = 9

HS= 1.731

VS= 2.667

GS= 2.792

PATTERN #	5	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.853	.892	.837
MINIMUM X	-.878	-.839	-.894
MAXIMUM Y	1.674	.746	.645
MINIMUM Y	-.993	-.807	-.879
CENTROID X	-.497	-.536	-.481
CENTROID Y	-.057	-.243	-.142
POA TO CENTROID in.	.500	.588	.502
MIN RADIUS	.082	.241	.159
MEAN RADIUS	.790	.701	.651
MAX RADIUS	1.710	.934	.981
HORIZONTAL SPREAD	1.731	1.731	1.731
VERTICAL SPREAD	2.667	1.553	1.524
EXTREME SPREAD	2.792	1.817	1.817
NUMBER IN ONE INCH CIRCLE =	3		
NUMBER IN TWO INCH CIRCLE =	7		
NUMBER IN THREE INCH CIRCLE =	9		



UPC

