

CB523445

MODEL 700™ M24

Model **SMS**™

Action

Barrel Length

Capacity

Order No. **5716**

*Includes 1 in chamber.

Remington

Repair Inquiry

Repair Number: RE00127456

Serial: C6523446 Model M24 SWS Center Fire

Repairman:

Verify Repair

Caliber: 308 WIN

Status:

Closed 3/30/2007 9:59:22 AM

Address Information

Customer:

Received From

Return To:

Received From

Name: CO C1ST / 20TH S.F.G.

CO C1ST / 20TH S.F.G.

Address 1: MASSACHUSETTS ARMY NATIONAL GUARD

MASSACHUSETTS ARMY NATIONAL GUARD

Address 2: 1505 ROOSEVELT AVENUE PO Box:

1505 ROOSEVELT AVENUE PO Box:

City: SPRINGFIELD

SPRINGFIELD

State: MA

Zip Code: 01109-2438

Country: US

State: MA

Zip Code: 01109-2438

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	Qt
A006	Sling Strap	1
A007	With Stud	3
A010	Hard Case	1
A017	Scope Base	1
A026	Scope	1
A045	Bi Pod	1
B000	FRONT/REAR BASE	1
R001	DEFI OYMENT KIT	1

Repair Search

Refresh

Close

naglej

3/30/2007

11:12 AM

CAPS

NUM

INS

SCRL



11:12 AM

Serial Number: C6523446

Model: M24 SWS



RE00127456

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6523446.__0

FILE DATE AND TIME: 05/08/2007 12:42

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	-0.047
The Average Y Centroid of the Five Target Set:	0.099
The Average Point of Impact of the Five Target Set:	0.110
The Average Mean Radius of the Five Target Set:	0.914
The Distance from POA to Centroid Target #1:	0.606
The Distance from Centroid Target #2 to Centroid Target #1:	0.798
The Distance from Centroid Target #3 to Centroid Target #1:	0.294
The Distance from Centroid Target #4 to Centroid Target #1:	0.778
The Distance from Centroid Target #5 to Centroid Target #1:	0.653

BARBER - M24 0028266

SERIAL NUMBER: C6523446. __0

TARGET NUMBER: 1

FILE DATE: 05/08/2007

FILE TIME: 12:42

POINT#	X	Y
1:	0.293	-1.008
2:	0.700	-0.302
3:	-0.220	-0.559
4:	-0.468	-0.528
5:	-1.368	-0.680
6:	-0.162	1.198
7:	-0.248	1.683
8:	-0.951	1.339
9:	-0.806	1.796
10:	0.588	2.520

X CENTROID: -0.264

Y CENTROID: 0.546

POA TO CENTROID: 0.606

HORZ SPREAD: 2.068

VERT SPREAD: 3.528

GROUP SPREAD: 3.750

MIN RADIUS: 0.660

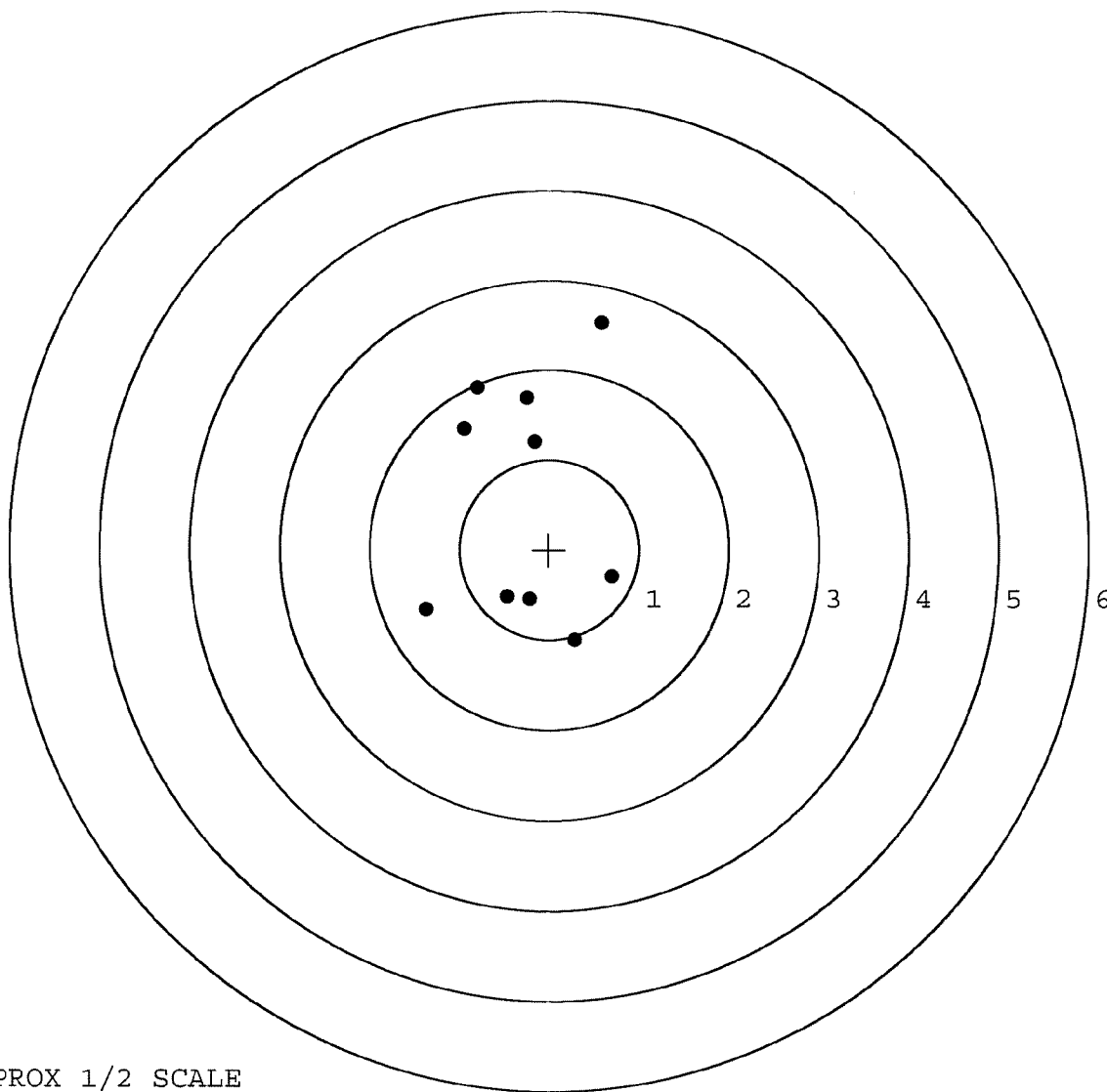
MAX RADIUS: 2.150

MEAN RADIUS: 1.314

IN 1 IN DIAMETER: 0

IN 2 IN DIAMETER: 1

in 3 IN DIAMETER: 7



TARGET APPROX 1/2 SCALE

BARBER - M24 0028267

SERIAL NUMBER: C6523446. 0

TARGET NUMBER: 2

FILE DATE: 05/08/2007

FILE TIME: 12:42

POINT#	X	Y
1:	0.926	-0.100
2:	0.416	-0.593
3:	-0.421	-1.822
4:	-0.707	-0.526
5:	-0.546	0.047
6:	-0.271	-0.130
7:	0.131	0.121
8:	-0.049	0.000
9:	0.037	0.337
10:	-0.252	0.375

X CENTROID: -0.074

Y CENTROID: -0.229

POA TO CENTROID: 0.241

HORZ SPREAD: 1.633

VERT SPREAD: 2.197

GROUP SPREAD: 2.207

MIN RADIUS: 0.221

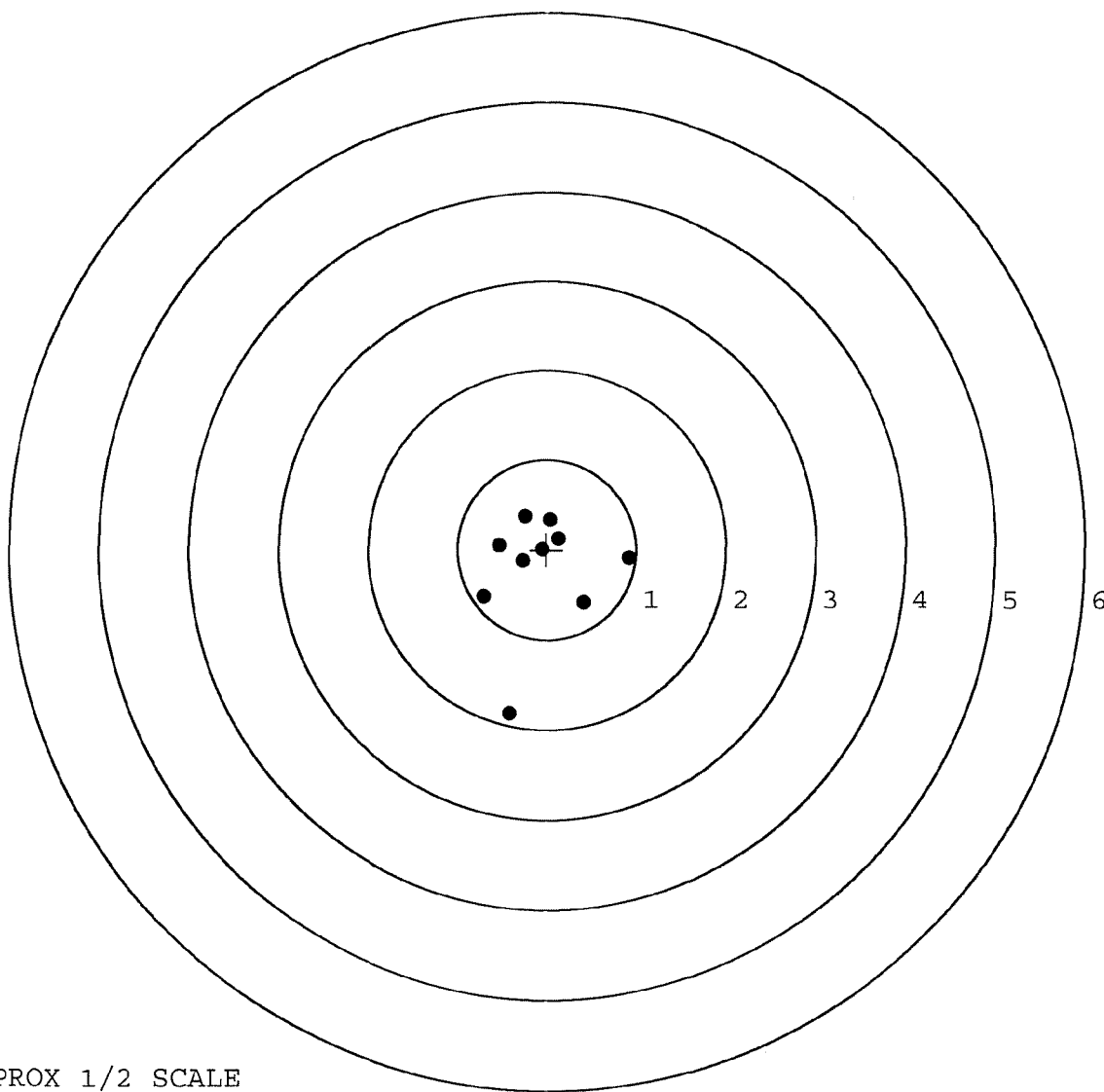
MAX RADIUS: 1.630

MEAN RADIUS: 0.656

IN 1 IN DIAMETER: 3

IN 2 IN DIAMETER: 8

in 3 IN DIAMETER: 9



TARGET APPROX 1/2 SCALE

BARBER - M24 0028268

SERIAL NUMBER: C6523446. __0

TARGET NUMBER: 3

FILE DATE: 05/08/2007

FILE TIME: 12:42

POINT#	X	Y
1:	0.335	-0.726
2:	0.413	-0.279
3:	0.229	-0.378
4:	0.021	-0.523
5:	-0.235	-0.615
6:	-0.483	-0.397
7:	0.584	0.507
8:	-0.568	1.092
9:	-0.894	1.426
10:	-0.614	2.778

X CENTROID: -0.121

Y CENTROID: 0.289

POA TO CENTROID: 0.313

HORZ SPREAD: 1.478

VERT SPREAD: 3.504

GROUP SPREAD: 3.630

MIN RADIUS: 0.738

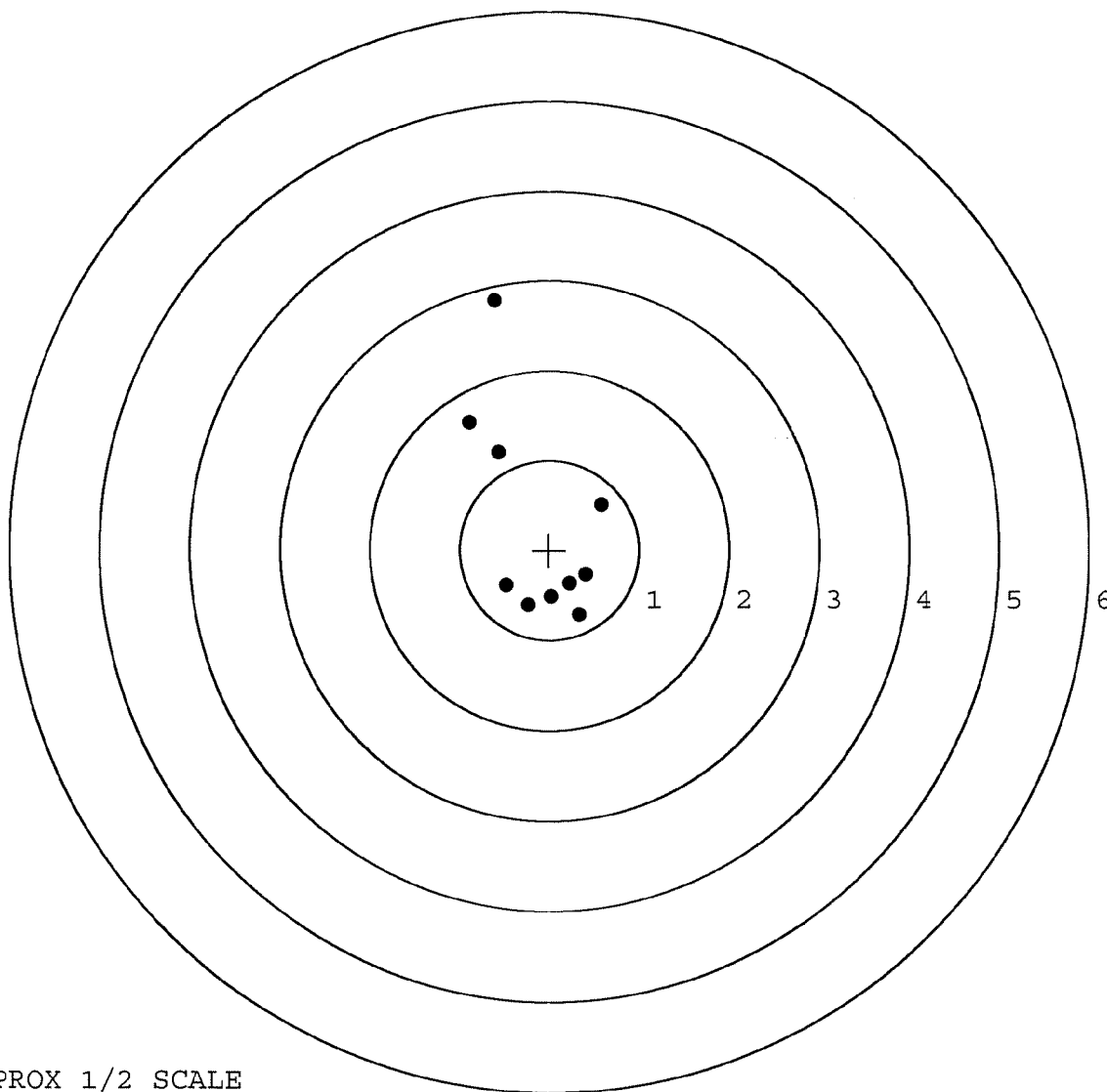
MAX RADIUS: 2.538

MEAN RADIUS: 1.072

IN 1 IN DIAMETER: 0

IN 2 IN DIAMETER: 7

in 3 IN DIAMETER: 9



TARGET APPROX 1/2 SCALE

BARBER - M24 0028269

SERIAL NUMBER: C6523446. __0

TARGET NUMBER: 4

FILE DATE: 05/08/2007

FILE TIME: 12:42

POINT#	X	Y
1:	0.163	-1.531
2:	0.956	-0.333
3:	0.430	-0.098
4:	0.412	-0.471
5:	0.054	-0.438
6:	-0.597	-0.443
7:	-0.470	-0.172
8:	-0.235	0.261
9:	-0.226	0.707
10:	0.103	0.896

X CENTROID: 0.059

Y CENTROID: -0.162

POA TO CENTROID: 0.173

HORZ SPREAD: 1.553

VERT SPREAD: 2.427

GROUP SPREAD: 2.428

MIN RADIUS: 0.276

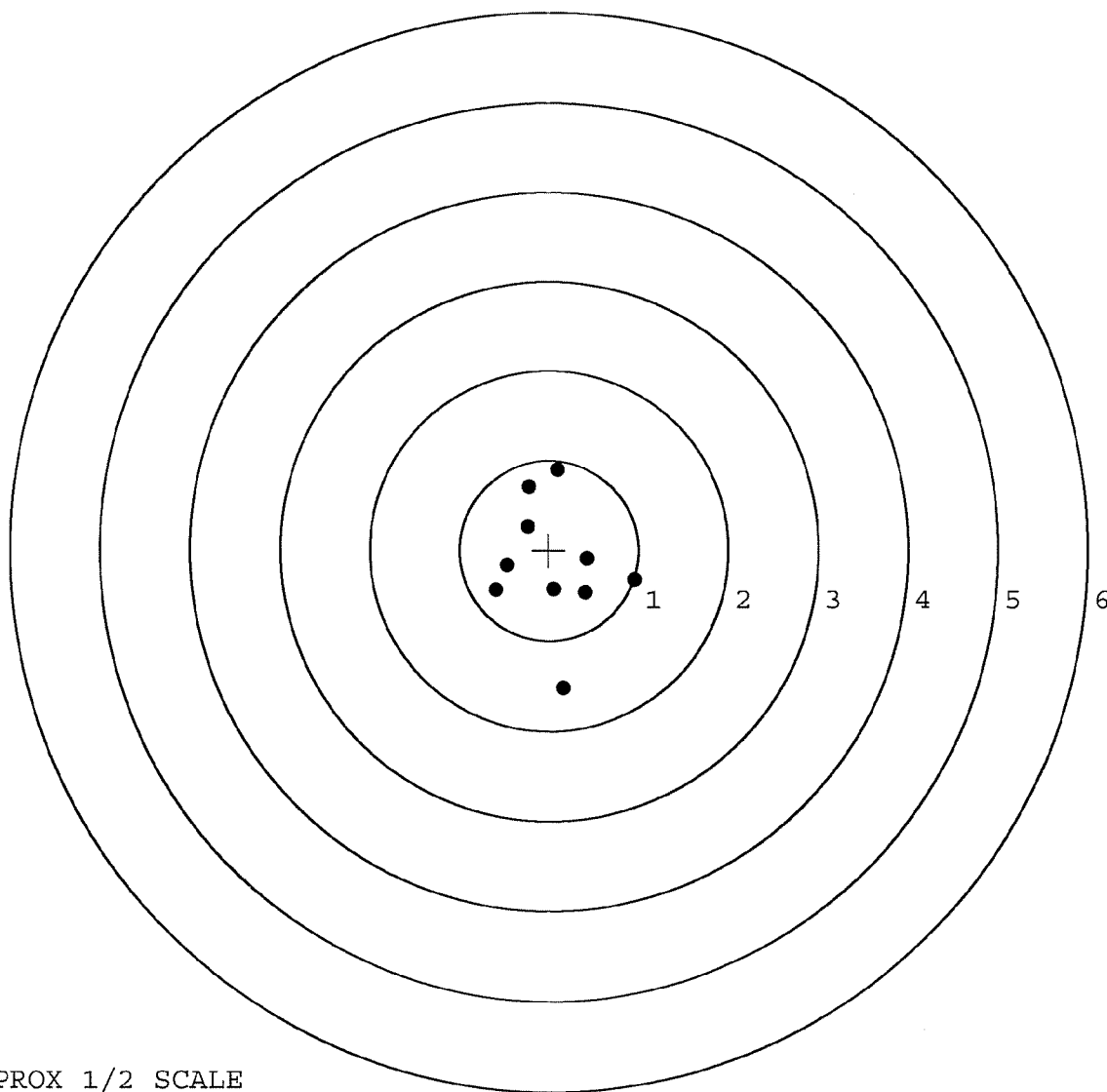
MAX RADIUS: 1.373

MEAN RADIUS: 0.714

IN 1 IN DIAMETER: 3

IN 2 IN DIAMETER: 8

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

BARBER - M24 0028270

SERIAL NUMBER: C6523446. __0

TARGET NUMBER: 5

FILE DATE: 05/08/2007

FILE TIME: 12:42

POINT#	X	Y
1:	-0.205	-1.041
2:	-0.373	-0.520
3:	0.132	-0.290
4:	-1.666	-0.346
5:	0.156	0.426
6:	0.283	0.447
7:	0.801	0.139
8:	0.738	0.451
9:	0.908	0.484
10:	0.855	0.767

X CENTROID: 0.163

Y CENTROID: 0.052

POA TO CENTROID: 0.171

HORZ SPREAD: 2.574

VERT SPREAD: 1.808

GROUP SPREAD: 2.756

MIN RADIUS: 0.343

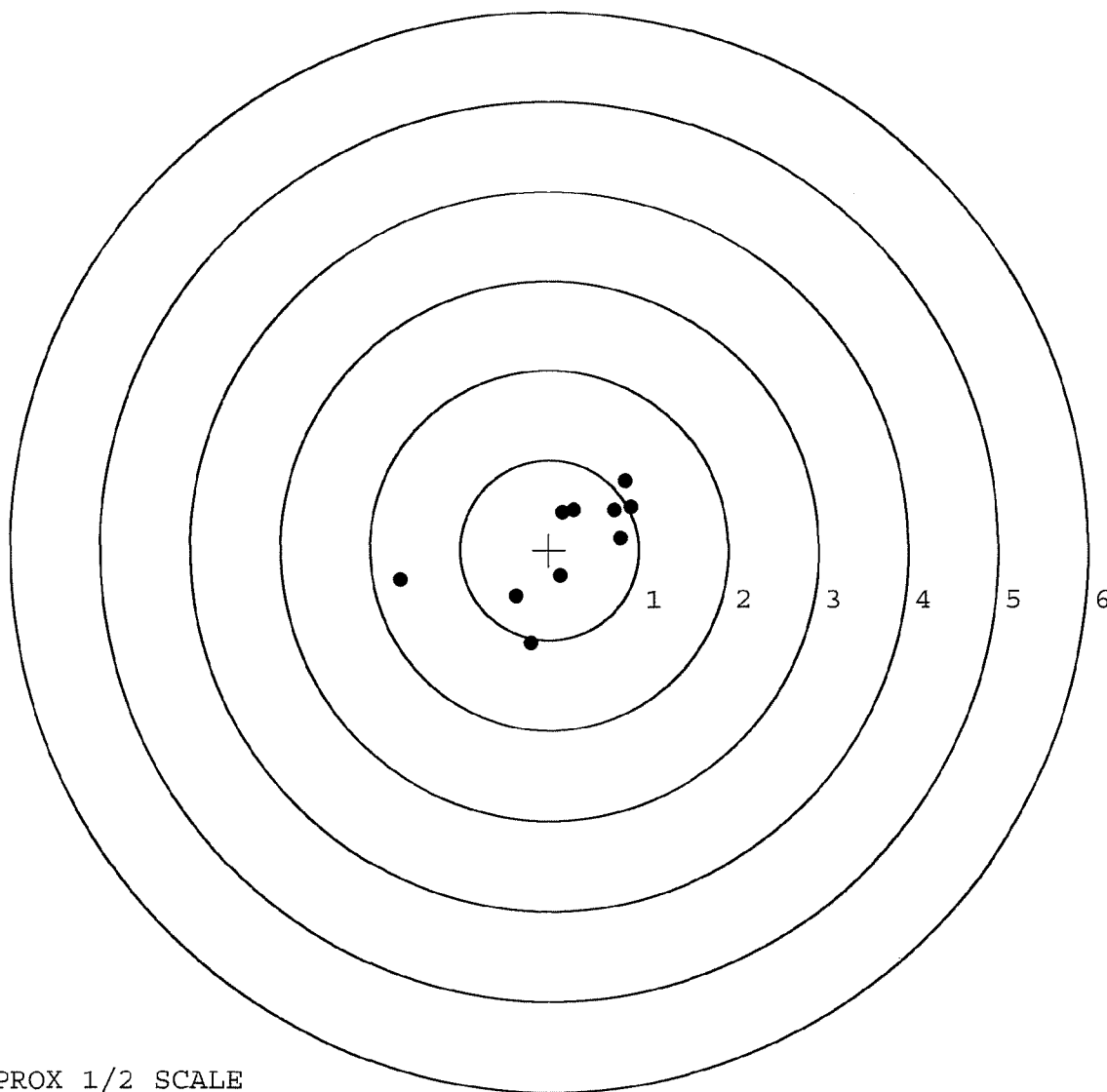
MAX RADIUS: 1.872

MEAN RADIUS: 0.814

IN 1 IN DIAMETER: 3

IN 2 IN DIAMETER: 8

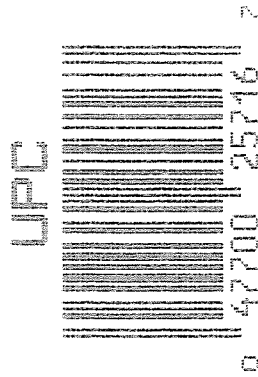
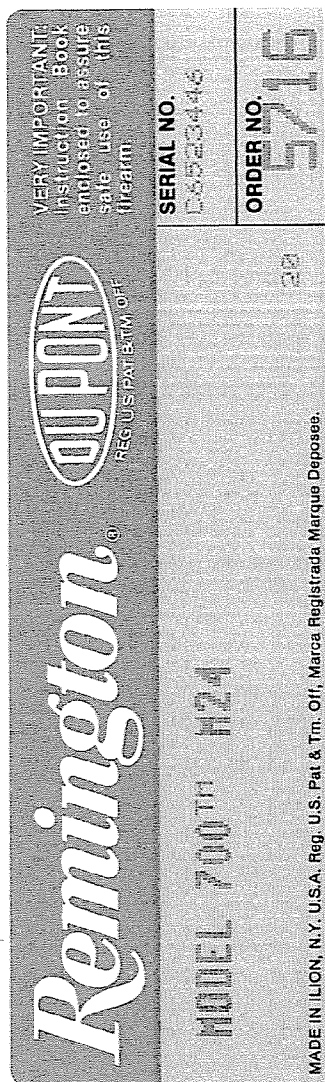
in 3 IN DIAMETER: 9



TARGET APPROX 1/2 SCALE

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

R & E NUMBER	127456		
SERIAL NUMBER	C6523446		
LOG-IN DATE	3-30-07		
OPERATION #	OPERATION NAME	DATE	INITIAL
500	DIS-ASSEMBLE GUN	4-17-07	RTZ
505	RE-BARREL	4-20-07	RTZ
560	ASSEMBLE	4-19-07	TRW
600	PROOF	4-19-07	TRW
605	CHECK HEADSPACE	4-19-07	TRW
610	DIS-ASSEMBLE GUN	4-20-07	RTZ
612	MAGNAFLUX	4/25/07	unsub
510	DRILL AND TAP	4-24-07	TRW
615	ROLLMARK CALIBER	4-24-07	CW
618	ROTO-BLAST	4-24-07	LB
620	APPLY COATINGS	4-27-07	WJ
625	FINAL ASSEMBLY	5-4-07	RTZ
640	FUNCTION TEST AND	PASS FAIL	5/7/07
650	TARGET	PASS FAIL	5/7/07
	MALFUNCTION	CORRECTION	5-14-07
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
670	FINAL INSPECTION		
	A) HEADSPACE	PASS FAIL	
	B) TRIGGER PULL	+/- .5 LBS MIN 2.50 LBS MAX 4.0 LBS	2.70 2.82 2.87 2.88 2.80 5-9-07 TRW
680	F) SAFETY ON FORCE	2 LBS MIN 10 LBS MAX	5.5 5.0 5.5 5-9-07 TRW
	G) SAFETY OFF FORCE	2 LBS MIN	3.75 3.75 3.75 5-9-07 TRW
	I) FIRING PIN INDENT	.020	.0225 .022 .0225 5-9-07 TRW
690	PACK		5-14-07 RA



M-24

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6523446

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	10 9	90	RW
600	Proof	10 9	90	RW
607	Check Headspace	10 9	90	RW
610	Dis-assemble Gun	10 9	90	RW
612	Magnaflux Barrel Action		10/17/90	KR
	Magnaflux Bolt		10/17/90	KR
615	Rollmark Caliber		10/17/90	SL
617	Drill and Tap Sight Holes		10/18/90	FB
618	Polish Barrel RB		10/19/90	WB
620	Apply Coatings (Barrel Action)		11-5-90	TH
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		12/12/90	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		12/12/90	RW
	C) Inspect Ejector Hole for Chamfer		12/12/90	RW
	D) Oil Firing Pin Ass'y		12/12/90	RW
	E) Adjust Trigger Pull to Min Setting and Stake		1/18/91	WB

op. #	OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	4	4	4			1/18/91	WB
	G) Safety Off Force	2 3/4	2 3/4	2 3/4			1/18/91	WB
	H) Trigger Pull Test & Retainability						1/18/91	WB
	I) Firing Pin Indent	.0205	.021	.021			1/18/91	WB
	J) Assemble Stock						1/18/91	RW
	K) Assemble Swivel Studs						2-1-91	K
	L) Attach Front and Rear Sight Assemblies						1/18/91	RW
	M) Iron Sight Alignment						1/18/91	RW
	N) Detach Front & Rear Sights & place in numbered container						1/18/91	RW
	O) Attach Scope to Rifle						1/18/91	RW
	P) Detach & Attach Scope 20 Times						1/18/91	RW
640	Gallery Target & Test						1-20-91	DH
	A) Time						1-20-91	DH
	B) Malfunctions						1-20-91	DH
	C) Pierced Primers						1-20-91	DH
	D) Optical Clarity of Scope						1-20-91	DH
645	Inspect for Live Ammo						1-20-91	DH
655	Final Inspection							
	A) Headspace						2-1-91	K
	B) Trigger Pull	2.57	2.28	2.39	2.32	2.44	1-23-91	JY
	C) Function						2-1-91	K
660	Pack						3-19-91	NF

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# + .50#

3.00# + .75#

4.00# + 1.00#

SERIAL NO. C6523446

DATE 1/18/91

TESTER WLB

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.48	2.51	2.55	2.51	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.49	2.57	2.48	2.28	
PULL #3	2.52	2.35	2.38	2.39	
PULL #4	2.53	2.53	2.30	2.32	
PULL #5	2.55	2.59	2.49	2.44	
TOTAL	12.57	12.55	12.20		
AVG.	2.51	2.51	2.44		

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.18	3.12		
PULL #2	3.11	3.16		
PULL #3	3.09	3.02		
PULL #4	3.13	3.18		
PULL #5	3.12	3.20		
TOTAL	15.63	15.68		
AVG.	3.12	3.13		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.02	4.09		4.25
PULL #2	4.01	4.10		4.23
PULL #3	4.03	4.00		4.25
PULL #4	4.04	4.11		4.30
PULL #5	4.06	4.13		4.13
TOTAL	20.16	20.43		21.16
AVG.	4.03	4.08		4.23

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6523446
21 Jan 1991

CENTROIDAL DISTANCES

0 TO	1	.391134
1 TO	2	.315826
1 TO	3	.397966
1 TO	4	.306624
1 TO	5	.35195

↓
✱ <----POA

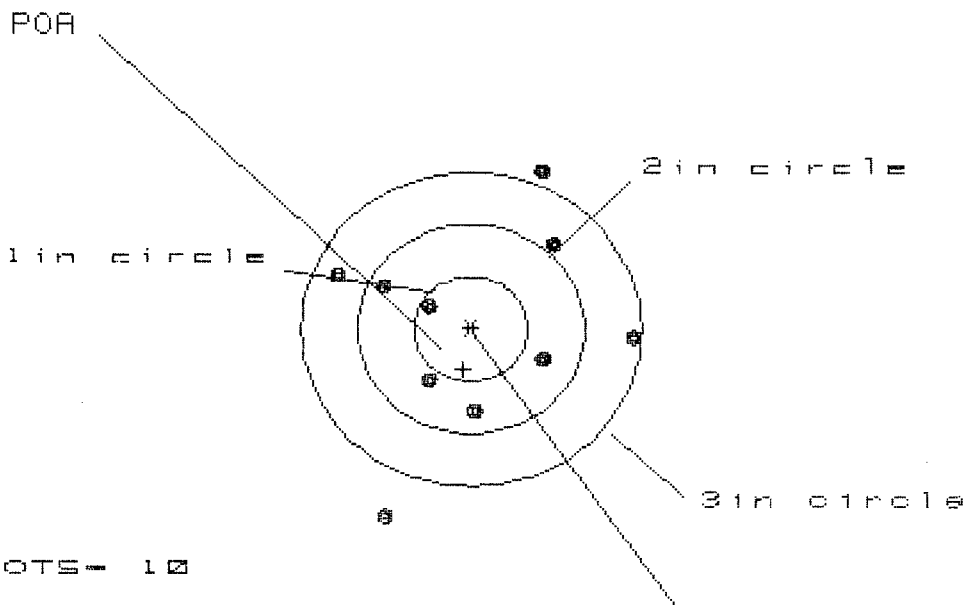
THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .0344
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .118
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .122912

THE AMR FOR THIS RIFLE IS: .932

21 Jan 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6523446

CENTERFIRE PATTERNS # 1



OF SHOTS - 10

IN CIR

1 in = 1

2 in = 5

3 in = 8

HS= 2.501

VS= 3.318

GS= 3.599

CENTROID *

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.432	1.344	1.407
MINIMUM X	-1.169	-1.257	-1.194
MAXIMUM Y	1.540	1.342	.805
MINIMUM Y	-1.778	-.980	-.812
CENTROID X	.069	.157	.094
CENTROID Y	.385	.583	.415
POA TO CENTROID in.	.391	.603	.425
MIN RADIUS	.389	.428	.399
MEAN RADIUS	1.074	.981	.896
MAX RADIUS	1.949	1.435	1.416
HORIZONTAL SPREAD	2.601	2.601	2.601
VERTICAL SPREAD	3.318	2.322	1.617
EXTREME SPREAD	3.599	2.674	2.674
NUMBER IN ONE INCH CIRCLE =	1		
NUMBER IN TWO INCH CIRCLE =	5		
NUMBER IN THREE INCH CIRCLE =	8		

21 Jan 1991

FILE:/PATTERNING/CENTERFIRE_PATT/06523446

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 = 10

HS= 1.670

VS= 2.049

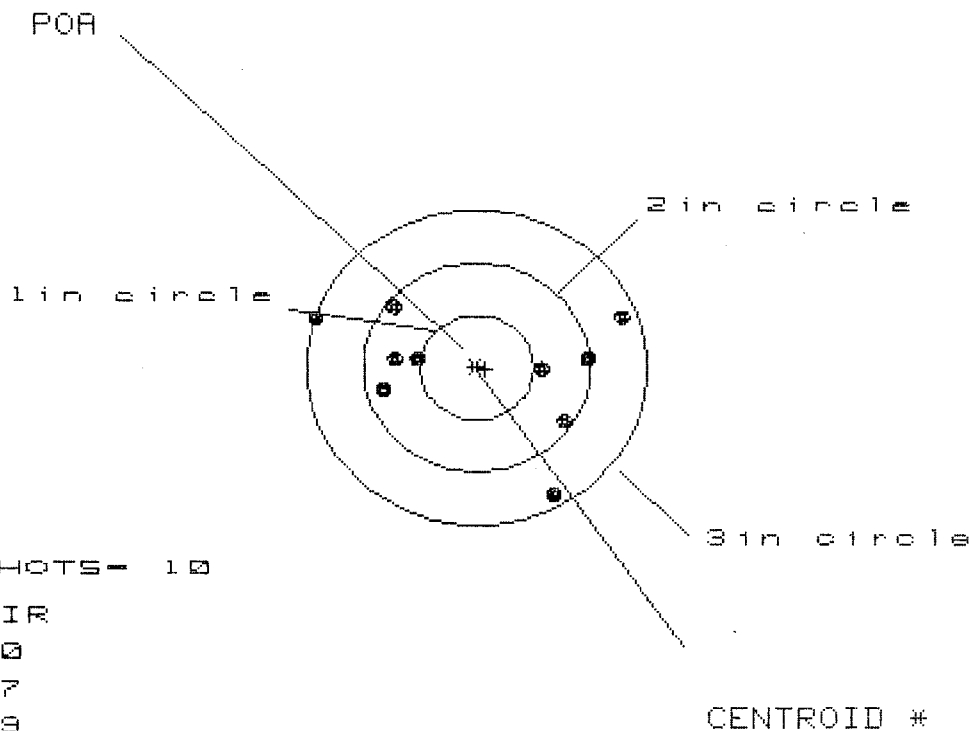
GS= 2.460

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.981	.931	1.039
MINIMUM X	:	-.689	-.739	-.631
MAXIMUM Y	:	1.234	.559	.474
MINIMUM Y	:	-.815	-.678	-.356
CENTROID X	:	.124	.174	.066
CENTROID Y	:	.074	-.063	.022
POA TO CENTROID in.	:	.145	.185	.070
MIN RADIUS	:	.189	.067	.152
MEAN RADIUS	:	.773	.688	.631
MAX RADIUS	:	1.313	1.097	1.039
HORIZONTAL SPREAD	:	1.670	1.670	1.670
VERTICAL SPREAD	:	2.049	1.237	.830
EXTREME SPREAD	:	2.460	1.954	1.734
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		8	
NUMBER IN THREE INCH CIRCLE	=		10	

21 Jan 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6523446

CENTERFIRE PATTERNS # 3



OF SHOTS- 10

IN CIR

1 in = 0

2 in = 7

3 in = 9

HS= 2.722

VS= 1.832

GS= 2.728

PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.278	1.118	1.182
MINIMUM X	:	-1.444	-.998	-.934
MAXIMUM Y	:	.619	.675	.530
MINIMUM Y	:	-1.213	-1.157	-.603
CENTROID X	:	-.075	.085	.021
CENTROID Y	:	.014	-.042	.103
POA TO CENTROID in.	:	.077	.095	.105
MIN RADIUS	:	.517	.436	.513
MEAN RADIUS	:	.996	.929	.879
MAX RADIUS	:	1.530	1.266	1.262
HORIZONTAL SPREAD	:	2.722	2.116	2.116
VERTICAL SPREAD	:	1.832	1.832	1.133
EXTREME SPREAD	:	2.728	2.330	2.253
NUMBER IN ONE INCH CIRCLE	=		0	
NUMBER IN TWO INCH CIRCLE	=		7	
NUMBER IN THREE INCH CIRCLE	=		9	

21 Jan 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C8523446

CENTERFIRE PATTERNS # 4

POA

1 in circle

2 in circle

3 in circle

OF SHOTS= 10

IN CIR

1 in = 1

2 in = 5

3 in = 10

HS= 1.794

VS= 2.422

GS= 2.460

CENTROID #

PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.855	.750	.710
MINIMUM X	:	-.939	-.642	-.682
MAXIMUM Y	:	1.213	1.310	1.133
MINIMUM Y	:	-1.209	-1.112	-.948
CENTROID X	:	.022	.127	.167
CENTROID Y	:	.082	-.015	-.179
POA TO CENTROID in.	:	.085	.128	.244
MIN RADIUS	:	.248	.387	.454
MEAN RADIUS	:	.943	.902	.836
MAX RADIUS	:	1.284	1.348	1.154
HORIZONTAL SPREAD	:	1.794	1.392	1.392
VERTICAL SPREAD	:	2.422	2.422	2.081
EXTREME SPREAD	:	2.460	2.460	2.124
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		6	
NUMBER IN THREE INCH CIRCLE	=		10	

21 Jan 1991

FILE:/PATTERNING/CENTERFIRE_PATT/06523446

CENTERFIRE PATTERNS # 5

POA

1in circle

2in circle

3in circle

CENTROID *

OF SHOTS- 10

IN CIR

1in = 0

2in = 7

3in = 10

HS= 1.879

VS= 2.126

GS= 2.407

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.010	.799	.798
MINIMUM X	:	-.869	-.757	-.758
MAXIMUM Y	:	1.270	1.175	.808
MINIMUM Y	:	-.856	-.863	-.716
CENTROID X	:	.032	-.080	-.079
CENTROID Y	:	.035	.130	-.017
POA TO CENTROID in.	:	.047	.152	.081
MIN RADIUS	:	.566	.426	.450
MEAN RADIUS	:	.874	.803	.748
MAX RADIUS	:	1.324	1.176	1.072
HORIZONTAL SPREAD	:	1.879	1.556	1.556
VERTICAL SPREAD	:	2.126	2.038	1.524
EXTREME SPREAD	:	2.407	2.191	1.805
NUMBER IN ONE INCH CIRCLE	=		0	
NUMBER IN TWO INCH CIRCLE	=		7	
NUMBER IN THREE INCH CIRCLE	=		10	