

C6225463

MODEL 700™ M24

Model **700 M24™**

Action _____

Barrel Length _____

Capacity _____

Order No. **5716**

*Includes 1 in chamber.



M2400061455

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: RE00135892

Serial: C6225463 Model M24 SWS Center Fire
Caliber: 7.62 NATO Produced: 10/26/1988

Repairman:

Verify Repair

Status:

Closed 10/26/2007 8:26:09 AM

Address Information

Customer:

☒ Received From

Return To:

☐ Received From

Name: US ARDEC RDECOM

US ARDEC RDECOM

Address 1: ROUTE 15 (973-724-4031)

ROUTE 15 (973-724-4031)

Address 2: BLDG. 34 NORTH

PO Box:

BLDG. 34 NORTH

PO Box:

City: PICATINNY ARSENAL

PICATINNY ARSENAL

State: NJ

Zip Code: 07806

Country: US

State: NJ

Zip Code: 07806

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

10/29/2007

10:57 AM

CAPS

NUM

INS

SCRL



10:57 AM

Serial Number:

C6225463

Model: M24 SWS



RE00135892

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6225463.___0
FILE DATE AND TIME: 12/12/2007 12:48

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	0.046
The Average Y Centroid of the Five Target Set:	0.004
The Average Point of Impact of the Five Target Set:	0.046
The Average Mean Radius of the Five Target Set:	0.692
The Distance from POA to Centroid Target #1:	0.058
The Distance from Centroid Target #2 to Centroid Target #1:	0.066
The Distance from Centroid Target #3 to Centroid Target #1:	0.047
The Distance from Centroid Target #4 to Centroid Target #1:	0.268
The Distance from Centroid Target #5 to Centroid Target #1:	0.190

SERIAL NUMBER: C6225463. __0

TARGET NUMBER: 1

FILE DATE: 12/12/2007

FILE TIME: 12:48

POINT#	X	Y
--------	---	---

1:	-0.301	-0.784
----	--------	--------

2:	-0.401	-0.634
----	--------	--------

3:	0.431	-0.732
----	-------	--------

4:	1.021	0.821
----	-------	-------

5:	0.541	0.121
----	-------	-------

6:	0.160	0.230
----	-------	-------

7:	0.092	0.563
----	-------	-------

8:	-0.452	-0.149
----	--------	--------

9:	-0.767	0.397
----	--------	-------

10:	-0.716	0.598
-----	--------	-------

X CENTROID: -0.039

Y CENTROID: 0.043

POA TO CENTROID: 0.058

HORZ SPREAD: 1.788

VERT SPREAD: 1.605

GROUP SPREAD: 2.079

MIN RADIUS: 0.273

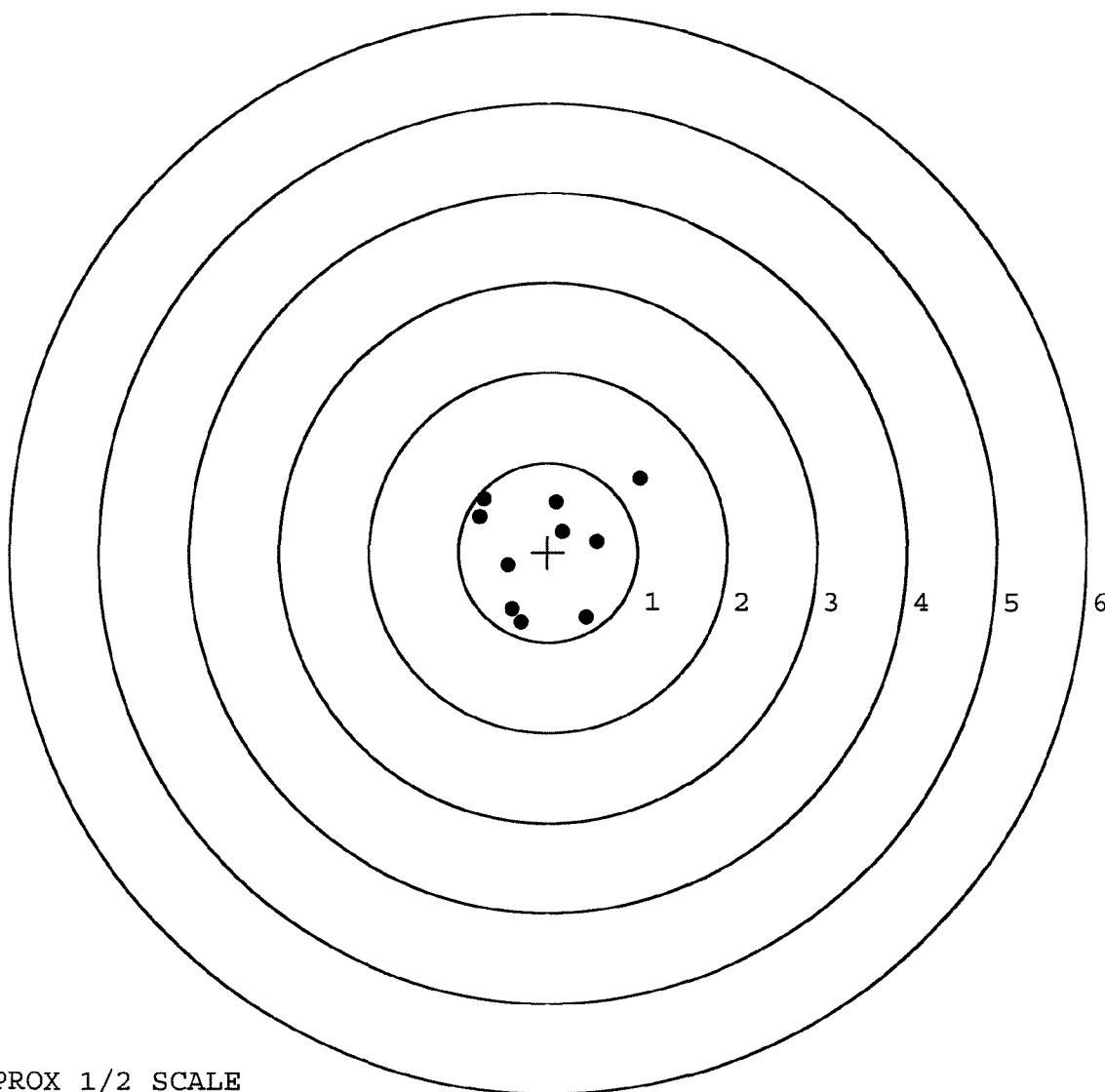
MAX RADIUS: 1.315

MEAN RADIUS: 0.739

IN 1 IN DIAMETER: 2

IN 2 IN DIAMETER: 9

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6225463. __0

TARGET NUMBER: 2

FILE DATE: 12/12/2007

FILE TIME: 12:48

POINT#	X	Y
--------	---	---

1:	0.346	0.919
----	-------	-------

2:	0.291	0.585
----	-------	-------

3:	-0.404	0.455
----	--------	-------

4:	-0.492	0.100
----	--------	-------

5:	-0.771	-0.035
----	--------	--------

6:	-1.170	-0.710
----	--------	--------

7:	-0.150	-0.131
----	--------	--------

8:	0.355	-0.381
----	-------	--------

9:	0.807	-0.546
----	-------	--------

10:	1.053	-0.431
-----	-------	--------

X CENTROID: -0.014

Y CENTROID: -0.018

POA TO CENTROID: 0.022

HORZ SPREAD: 2.223

VERT SPREAD: 1.629

GROUP SPREAD: 2.240

MIN RADIUS: 0.178

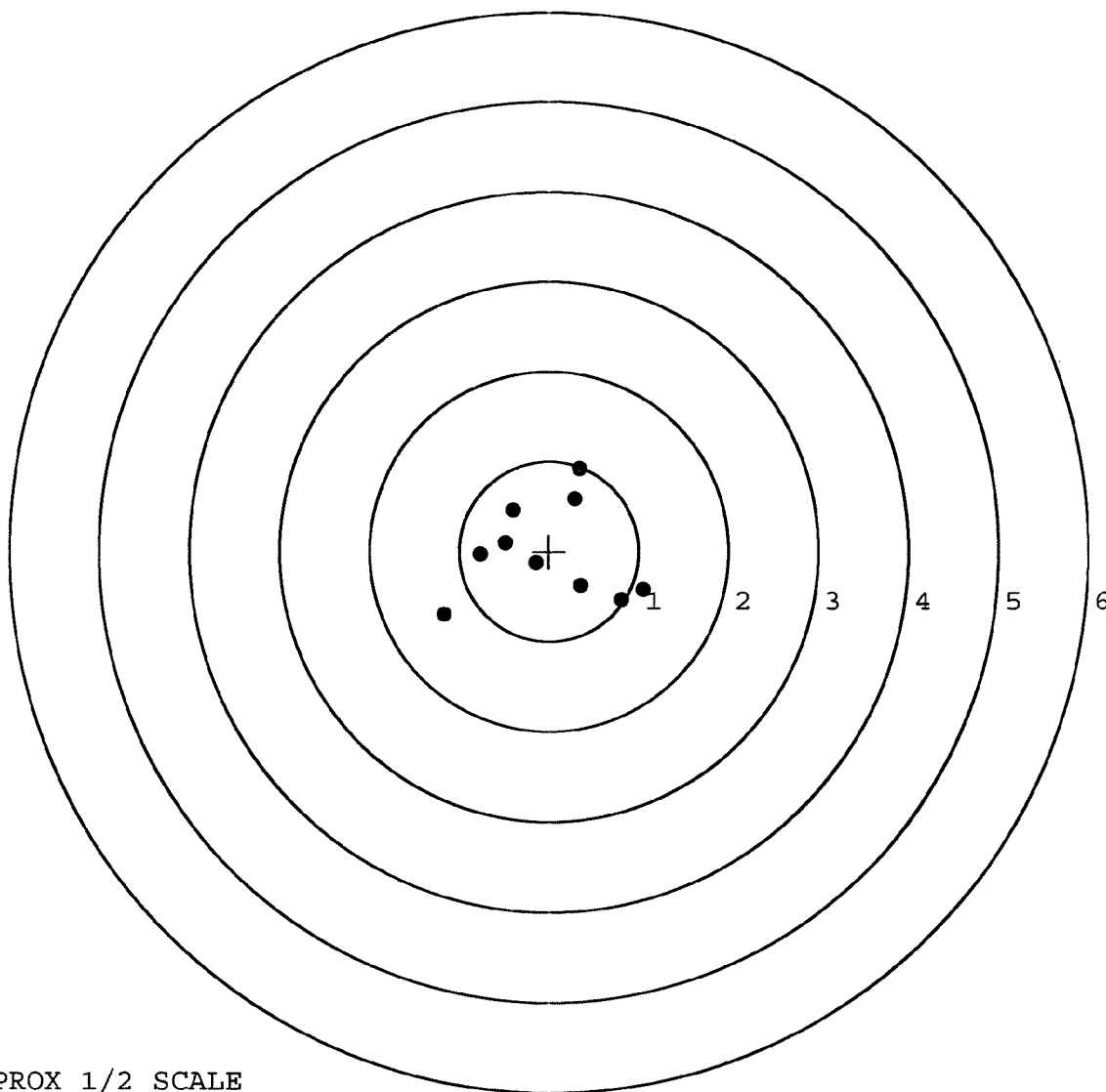
MAX RADIUS: 1.348

MEAN RADIUS: 0.770

IN 1 IN DIAMETER: 2

IN 2 IN DIAMETER: 7

in 3 IN DIAMETER: 10

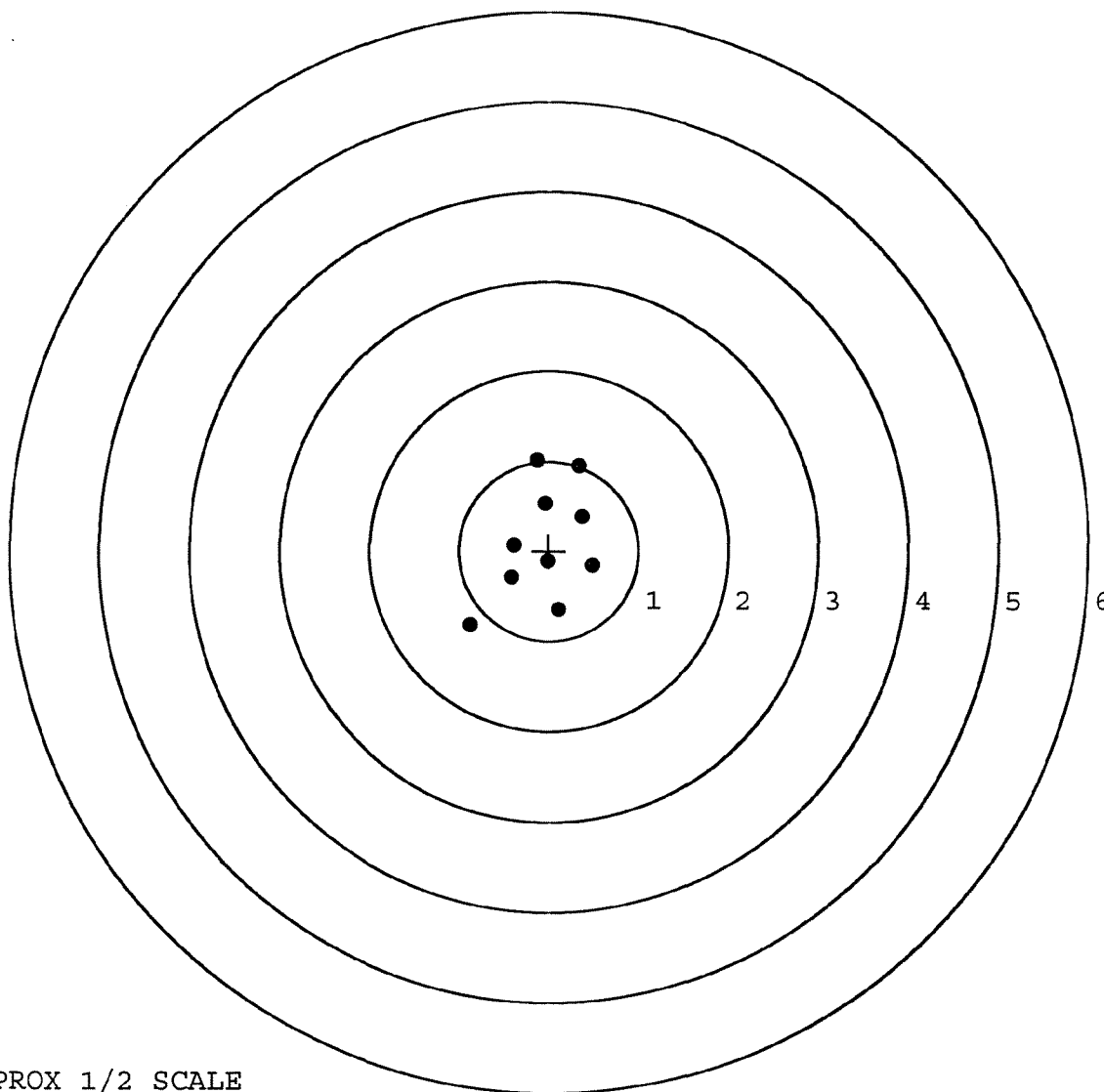


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6225463.____0
TARGET NUMBER: 3
FILE DATE: 12/12/2007
FILE TIME: 12:48

X CENTROID: -0.057
Y CENTROID: 0.087
POA TO CENTROID: 0.104
HORZ SPREAD: 1.366
VERT SPREAD: 1.840
GROUP SPREAD: 2.159
MIN RADIUS: 0.209
MAX RADIUS: 1.232
MEAN RADIUS: 0.649
IN 1 IN DIAMETER: 3
IN 2 IN DIAMETER: 9
in 3 IN DIAMETER: 10

POINT#	X	Y
1:	-0.127	1.010
2:	0.345	0.948
3:	0.367	0.384
4:	-0.053	0.527
5:	0.487	-0.162
6:	0.110	-0.658
7:	-0.879	-0.830
8:	-0.416	-0.297
9:	-0.387	0.065
10:	-0.015	-0.118



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6225463. __0

TARGET NUMBER: 4

FILE DATE: 12/12/2007

FILE TIME: 12:48

POINT#	X	Y
1:	0.701	-0.968
2:	0.811	-0.278
3:	0.590	-0.005
4:	0.268	0.554
5:	-0.164	0.385
6:	-0.470	-0.228
7:	-0.005	-0.300
8:	0.001	-0.051
9:	0.295	0.295
10:	0.145	0.233

X CENTROID: 0.217

Y CENTROID: -0.036

POA TO CENTROID: 0.220

HORZ SPREAD: 1.281

VERT SPREAD: 1.522

GROUP SPREAD: 1.606

MIN RADIUS: 0.217

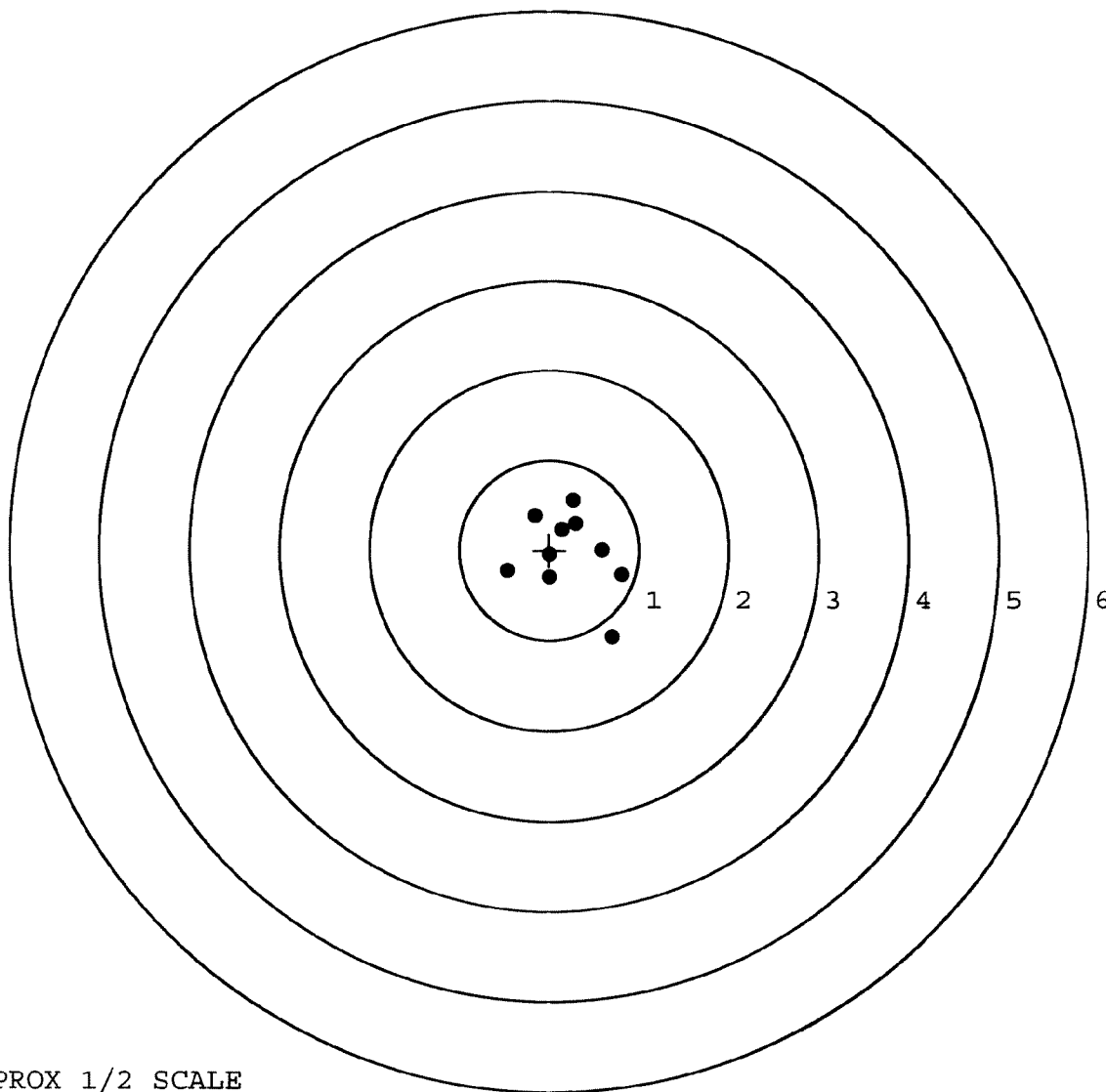
MAX RADIUS: 1.050

MEAN RADIUS: 0.512

IN 1 IN DIAMETER: 5

IN 2 IN DIAMETER: 9

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6225463. __0

TARGET NUMBER: 5

FILE DATE: 12/12/2007

FILE TIME: 12:48

POINT#	X	Y
1:	-0.464	-1.197
2:	0.985	-1.112
3:	1.118	-0.414
4:	-0.514	-0.093
5:	-0.721	0.031
6:	-0.257	0.489
7:	0.122	0.260
8:	0.323	0.450
9:	0.276	0.586
10:	0.356	0.425

X CENTROID: 0.122

Y CENTROID: -0.058

POA TO CENTROID: 0.135

HORZ SPREAD: 1.839

VERT SPREAD: 1.783

GROUP SPREAD: 2.054

MIN RADIUS: 0.318

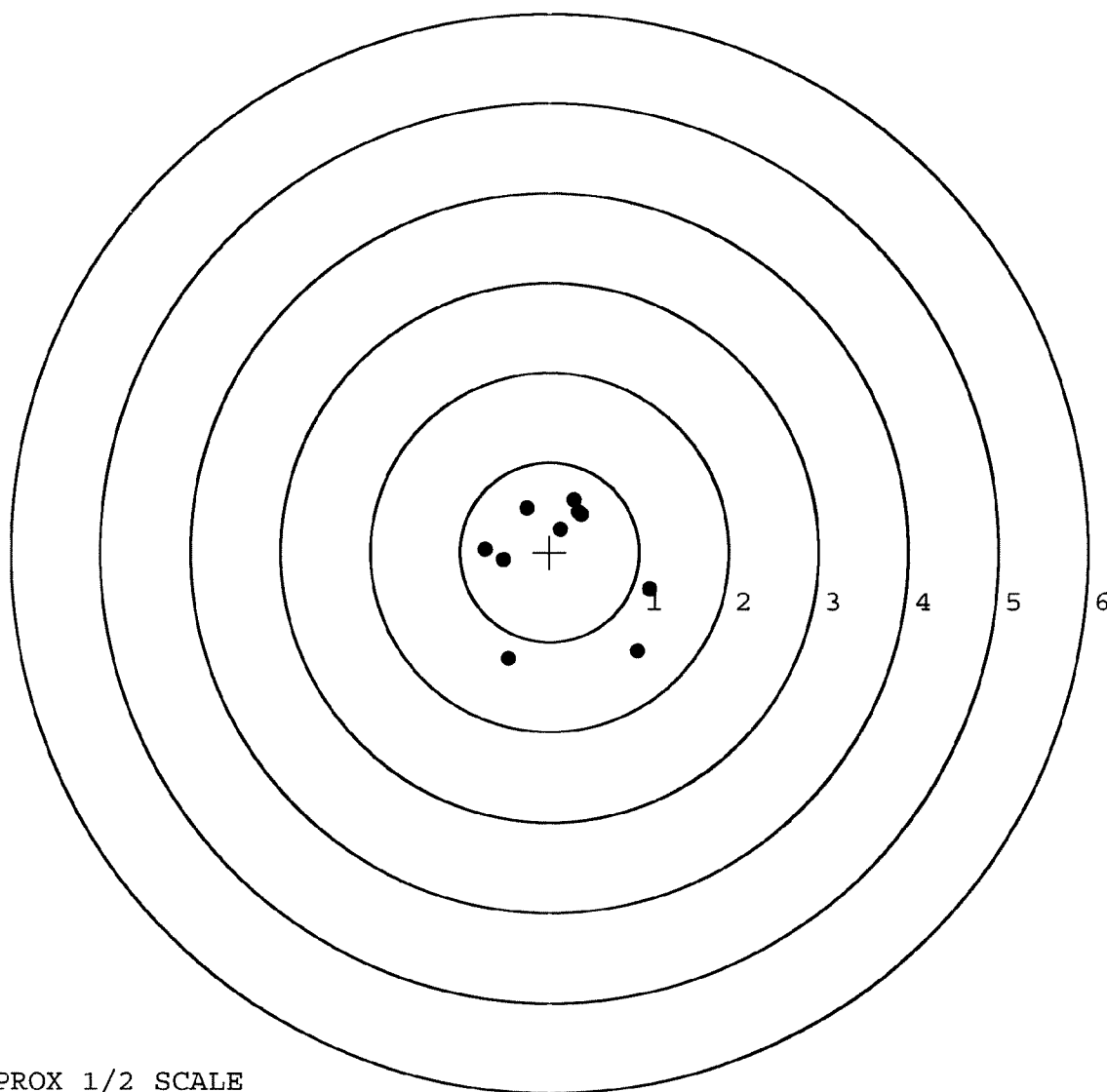
MAX RADIUS: 1.362

MEAN RADIUS: 0.791

IN 1 IN DIAMETER: 1

IN 2 IN DIAMETER: 7

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

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

R & E NUMBER		135892		
SERIAL NUMBER		C6225463		
LOG-IN DATE		10-26-09		
OPERATION #	OPERATION NAME	DATE	INITIAL	
500	DIS-ASSEMBLE GUN	11-14-07	APD	
505	RE-BARREL	11-27-07	APD	
560	ASSEMBLE	11-27-07	APD	
600	PROOF	11-27-07	TRW	
605	CHECK HEADSPACE	11-27-07	TRW	
610	DIS-ASSEMBLE GUN			
612	MAGNAFLUX	12-04-07	JB	
510	DRILL AND TAP	12-3-07	TRW	
615	ROLLMARK CALIBER	12-3-07	CW	
618	ROTO-BLAST	12-5-07	LY	
620	APPLY COATINGS	12-8-07	CW	
625	FINAL ASSEMBLY	12-11-07	TR	
640	FUNCTION TEST AND	PASS FAIL	12-12-07	TRW
650	TARGET	PASS FAIL	12-12-07	TRW
	MALFUNCTION	CORRECTION		
	MALFUNCTION	CORRECTION		
	MALFUNCTION	CORRECTION		
	MALFUNCTION	CORRECTION	12-12-07	FM
670	FINAL INSPECTION		12-13-07	DA
	A) HEADSPACE	PASS FAIL	12-13-07	DA
	B) TRIGGER PULL	+/- .5 LBS MIN 2.50 LBS MAX 4.0 LBS	2.53 2.54 2.54 2.54 2.55	12-13-07 DA
680	F) SAFETY ON FORCE	2 LBS MIN 10 LBS MAX	5.2 4.5 4.5	12-13-07 DA
	G) SAFETY OFF FORCE	2 LBS MIN	2.5 2.5 2.5	12-13-07 DA
	I) FIRING PIN INDENT	.020	.022 .021 .021	12-13-07 DA
690	PACK		12-13-08	FM

00299

M2400061464

M-24

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C 6225463

OPERATION		DATE	INT
#	NAME		
575-580	ASSEMBLY 2	26	FB
600	PROOF 2	29	RW
615	MAGNAFLUX BARREL	5/13/88	Pfl.
	MAGNAFLUX BOLT	5/13/88	Pfl.
620	COATING	8/11/88	TA
625-630	FINAL ASSEMBLY		
635	TEST		
640	TARGET		
	FIRING PIN INDENT		
660	PACK		

SCOPE # 1060

M-24

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6225463

OP. #	OP. NAME	READINGS	DATE	INITIAL
575 & 580	Assemble Action and stock			
600	Proof			
607	Check Headspace			
610	Dis-assemble gun			
612	Magnaflux Barrel Action			
	Magnaflux Bolt			
615	Rollmark Caliber			
617	Drill & Tap Sight Holes			
618	Polish Barrel			
620	Apply Coatings (Barrel Action)			
	Apply Coatings (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		8/29/88	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		8/29/88	RW
	C) Inspect Ejector Hole for Chamfer		8/29/88	RW

OVER

C-6225463

OP.#		READINGS	DATE	INITIAL
625 cont.	D) Oil Firing Pin Ass'y		8/29/88	RW
	E) Adjust Trigger Pull to Min. Setting and Stake		29aug88	JU. + RS.
	F) Safety on Force	7 6.5 7	29aug88	JU. + RS.
	G) Safety off Force	4 4 4	29aug88	JU. + RS.
	H) Trigger Pull Test & Retainability		29aug88	JU. + RS.
	I) Firing Pin Indent	.022 .022 .0215	29aug88	JU. + RS.
	J) Assemble Stock		9/26/88	RW
	K) Assemble Swivel Studs		10-10-88	RS.
	L) Attach Front & Rear Sight Assemblies		9/26/88	RW
	M) Iron Sight Alignment		9/26/88	RW
	N) Detach Front & Rear Sights & place in numbered container		9/26/88	RW
	O) Attach Scope to Rifle		10/3/88	RW
	P) Detach & Attach Scope 20 times		10/4/88	RS.
640	Gallery Target & Test	57 R 98 L	10-7-88	AC
	A) Optical Clarity of Scope	OK	10-7-88	AC
645	Inspect for Live Ammo	none	10-7-88	AC
655	Final Inspection			
	A) Headspace		10-10-88	RS.
	B) Trigger Pull		10-10-88	RS.
	C) Function		10-10-88	RS.
660	Pack			

SWS TRIGGER PULL TEST

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS
2.50# + .50#
3.00# + .75#
4.00# + 1.00#

SERIAL NO. C6225463

DATE 29 Aug 88

TESTER J.D. + R.S.

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.61	2.46	2.85	2.71	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.41	2.51	2.81	2.64	
PULL #3	2.59	2.51	2.81	2.64	
PULL #4	2.43	2.48	2.85	2.66	
PULL #5	2.56	2.46	2.88	2.69	
TOTAL	12.60	12.42	14.20	13.34	
AVG.	2.52	2.484	2.84	2.668	

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.02	3.22		
PULL #2	3.01	3.20		
PULL #3	2.94	3.19		
PULL #4	3.05	3.24		
PULL #5	3.07	3.19		
TOTAL	15.09	16.04		
AVG.	3.018	3.208		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.21	4.23		4.01
PULL #2	4.21	4.26		4.02
PULL #3	4.19	4.29		4.02
PULL #4	4.18	4.33		3.95
PULL #5	4.25	4.36		3.95
TOTAL	21.04	21.47		19.95
AVG.	4.208	4.294		3.99

7 Oct 1986

FILE:/PATTERNING/CENTERFIRE_PATT/C6225463

CENTERFIRE PATTERNS # 1

POA

1 in circle

2 in circle

3 in circle

OF SHOTS- 10

IN CIR

1 in = 1

2 in = 4

3 in = 6

HS= 3.645

VS= 3.162

GS= 3.701

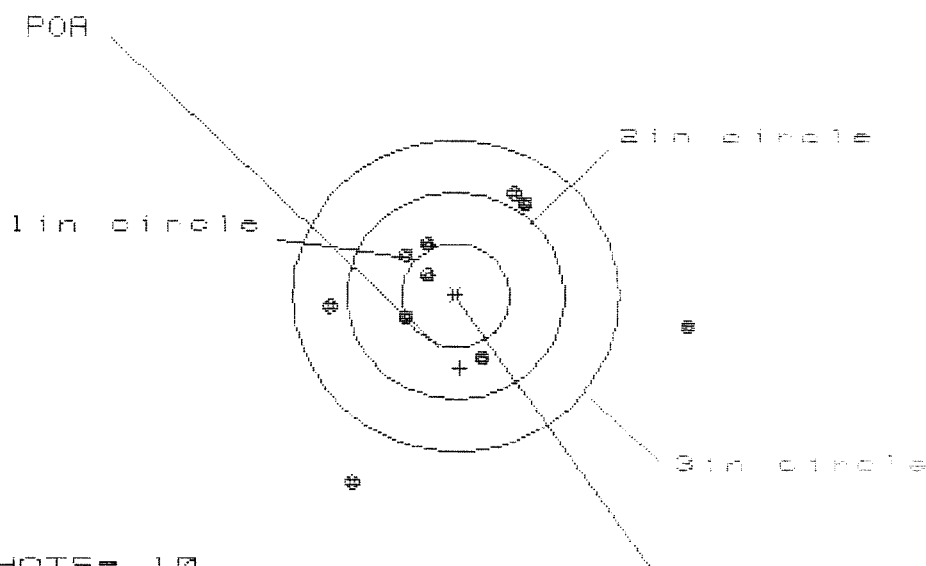
CENTROID *

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.784	1.578	1.622
MINIMUM X	-1.861	-.994	-.951
MAXIMUM Y	1.840	1.786	1.133
MINIMUM Y	-1.322	-1.376	-1.152
CENTROID X	-.079	.127	.083
CENTROID Y	-.768	-.714	-.938
POA TO CENTROID in.	.773	.725	.941
MIN RADIUS	.353	.565	.490
MEAN RADIUS	1.253	1.190	1.100
MAX RADIUS	1.923	1.820	1.653
HORIZONTAL SPREAD	3.645	2.572	2.572
VERTICAL SPREAD	3.162	3.162	2.286
EXTREME SPREAD	3.701	3.275	2.801
NUMBER IN ONE INCH CIRCLE =	1		
NUMBER IN TWO INCH CIRCLE =	4		
NUMBER IN THREE INCH CIRCLE =	6		

7 Oct 1988

FILE:/PATTERNING/CENTERFIRE_PATT/08285463

CENTERFIRE PATTERNS # 2



OF SHOTS- 10

IN CIR

1 in = 2

2 in = 5

3 in = 8

HS= 3.297

VS= 2.851

GS= 3.399

CENTROID +

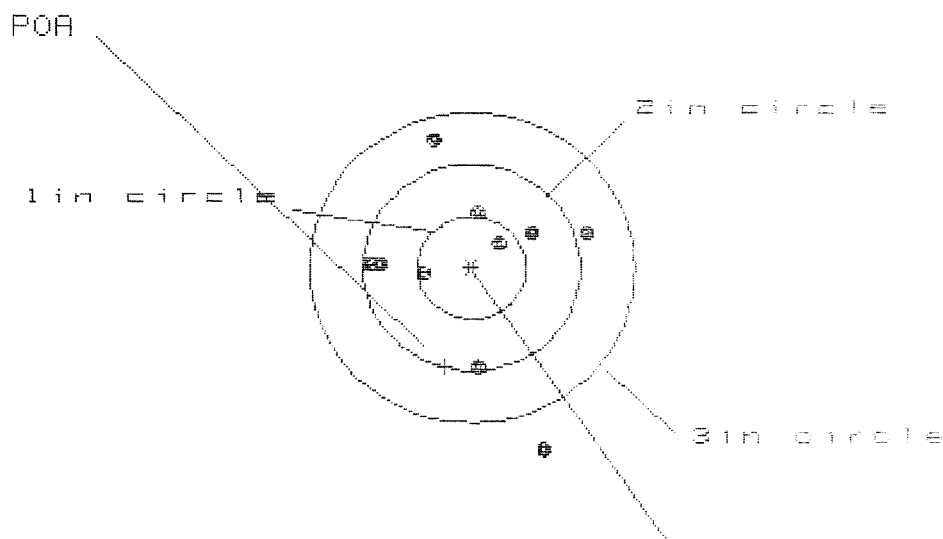
PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	2.111	.871	.781
MINIMUM X	:	-1.185	-.951	-1.041
MAXIMUM Y	:	1.040	1.001	.770
MINIMUM Y	:	-1.811	-1.850	-.838
CENTROID X	:	-.042	-.276	-.186
CENTROID Y	:	.702	.741	.972
POA TO CENTROID in.	:	.703	.790	.990
MIN RADIUS	:	.302	.152	.119
MEAN RADIUS	:	1.019	.835	.662
MAX RADIUS	:	2.140	1.985	1.098
HORIZONTAL SPREAD	:	3.297	1.822	1.822
VERTICAL SPREAD	:	2.851	2.851	1.608
EXTREME SPREAD	:	3.399	3.216	2.052
NUMBER IN ONE INCH CIRCLE =	:		2	

NUMBER IN TWO INCH CIRCLE = 5
 NUMBER IN THREE INCH CIRCLE = 8

7 Oct 1988

FILE:/PATTERNING/CENTERFIRE_PATT/082254B3

CENTERFIRE PATTERNS # 3



OF SHOTS= 10

IN CIR

1in = 2

2in = 7

3in = 9

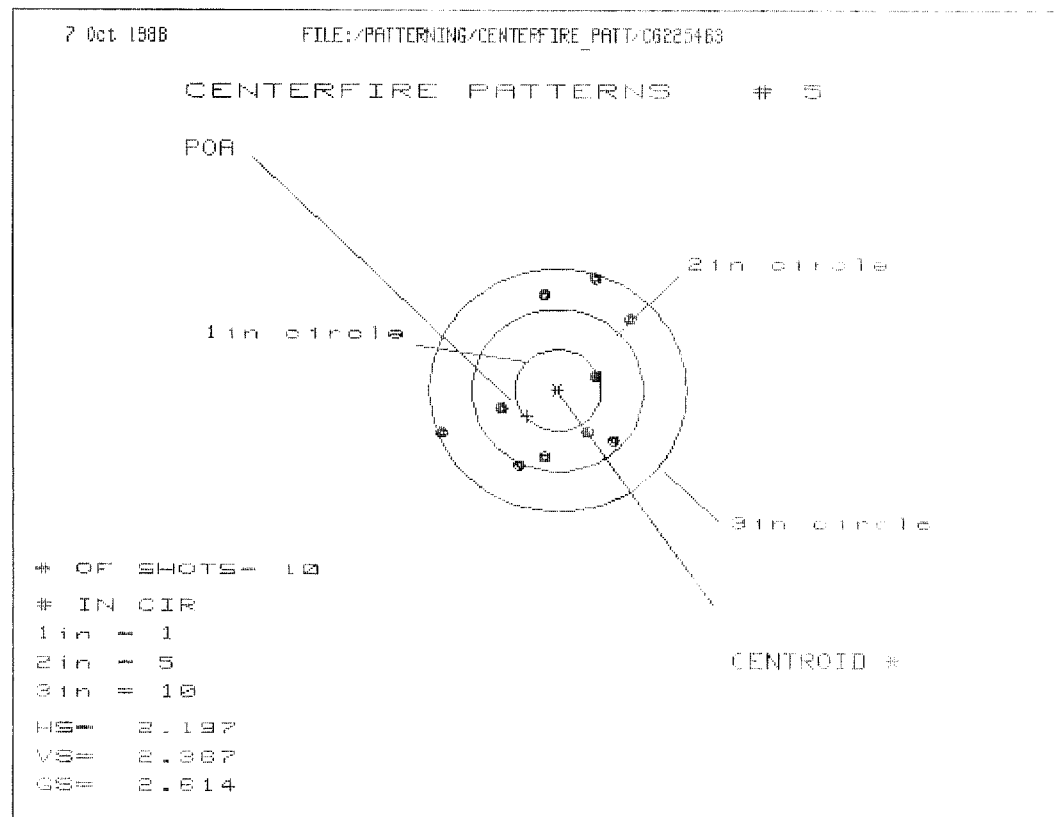
HS= 2.057

VS= 3.064

GS= 3.242

PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.067	1.140	1.100
MINIMUM X	:	-.990	-.917	-.957
MAXIMUM Y	:	1.265	1.065	.503
MINIMUM Y	:	-1.799	-1.156	-1.023
CENTROID X	:	.247	.174	.214
CENTROID Y	:	.957	1.157	1.024
POA TO CENTROID in.	:	.989	1.170	1.046
MIN RADIUS	:	.365	.373	.362
MEAN RADIUS	:	.918	.775	.732
MAX RADIUS	:	1.918	1.161	1.134
HORIZONTAL SPREAD	:	2.057	2.057	2.057

MAX RADIUS :	2.323	1.973	1.625
HORIZONTAL SPREAD :	4.206	3.546	2.762
VERTICAL SPREAD :	2.306	2.113	2.113
EXTREME SPREAD :	4.226	3.836	3.235
NUMBER IN ONE INCH CIRCLE =		2	
NUMBER IN TWO INCH CIRCLE =		4	
NUMBER IN THREE INCH CIRCLE =		5	



PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.846	.894	.731
MINIMUM X	:	-1.351	-1.303	-1.762
MAXIMUM Y	:	1.420	1.373	1.331
MINIMUM Y	:	-.947	-.789	-.831
CENTROID X	:	.357	.309	.472
CENTROID Y	:	.321	.163	.245
POA TO CENTROID in.	:	.480	.350	.515
MIN RADIUS	:	.454	.523	.413
MEAN RADIUS	:	.990	.910	.839
MAX RADIUS	:	1.484	1.375	1.351
HORIZONTAL SPREAD	:	2.197	2.197	1.493
VERTICAL SPREAD	:	2.367	2.162	2.162
EXTREME SPREAD	:	2.614	2.567	2.204
NUMBER IN ONE INCH CIRCLE =			1	
NUMBER IN TWO INCH CIRCLE =			5	
NUMBER IN THREE INCH CIRCLE =			10	

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # 06225463

CENTROIDAL DISTANCES

0 TO	1	.772052
1 TO	2	1.47047
1 TO	3	1.75553
1 TO	4	1.96664
1 TO	5	1.17304

4
2
+ 5 <----FOR
1

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .0538
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .4812
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .484198

THE AMR FOR THIS RIFLE IS: 1.087