

C6349100

74

MODEL 760TM M24

Model **SMS** TM

Action

Barrel Length

Capacity

Order No. **5716**

*Includes 1 in chamber.

Remington

Serial Number: C6349100

Model: M24 SWS



RE00085018

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6349100.___0
FILE DATE AND TIME: 10/06/2004 11:03

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	0.065
The Average Y Centroid of the Five Target Set:	-0.005
The Average Point of Impact of the Five Target Set:	0.065
The Average Mean Radius of the Five Target Set:	0.667
The Distance from POA to Centroid Target #1:	0.152
The Distance from Centroid Target #2 to Centroid Target #1:	0.210
The Distance from Centroid Target #3 to Centroid Target #1:	0.155
The Distance from Centroid Target #4 to Centroid Target #1:	0.161
The Distance from Centroid Target #5 to Centroid Target #1:	0.287

SERIAL NUMBER: C6349100.___0

TARGET NUMBER: 1

FILE DATE: 10/06/2004

FILE TIME: 11:03

POINT#	X	Y
1:	0.754	1.456
2:	0.719	0.378
3:	0.878	-0.076
4:	-0.882	0.131
5:	-0.867	0.038
6:	-0.186	-0.467
7:	-0.344	-0.015
8:	-0.141	0.004
9:	0.284	0.153
10:	0.205	-0.142

X CENTROID: 0.042

Y CENTROID: 0.146

POA TO CENTROID: 0.152

HORZ SPREAD: 1.760

VERT SPREAD: 1.923

GROUP SPREAD: 2.154

MIN RADIUS: 0.232

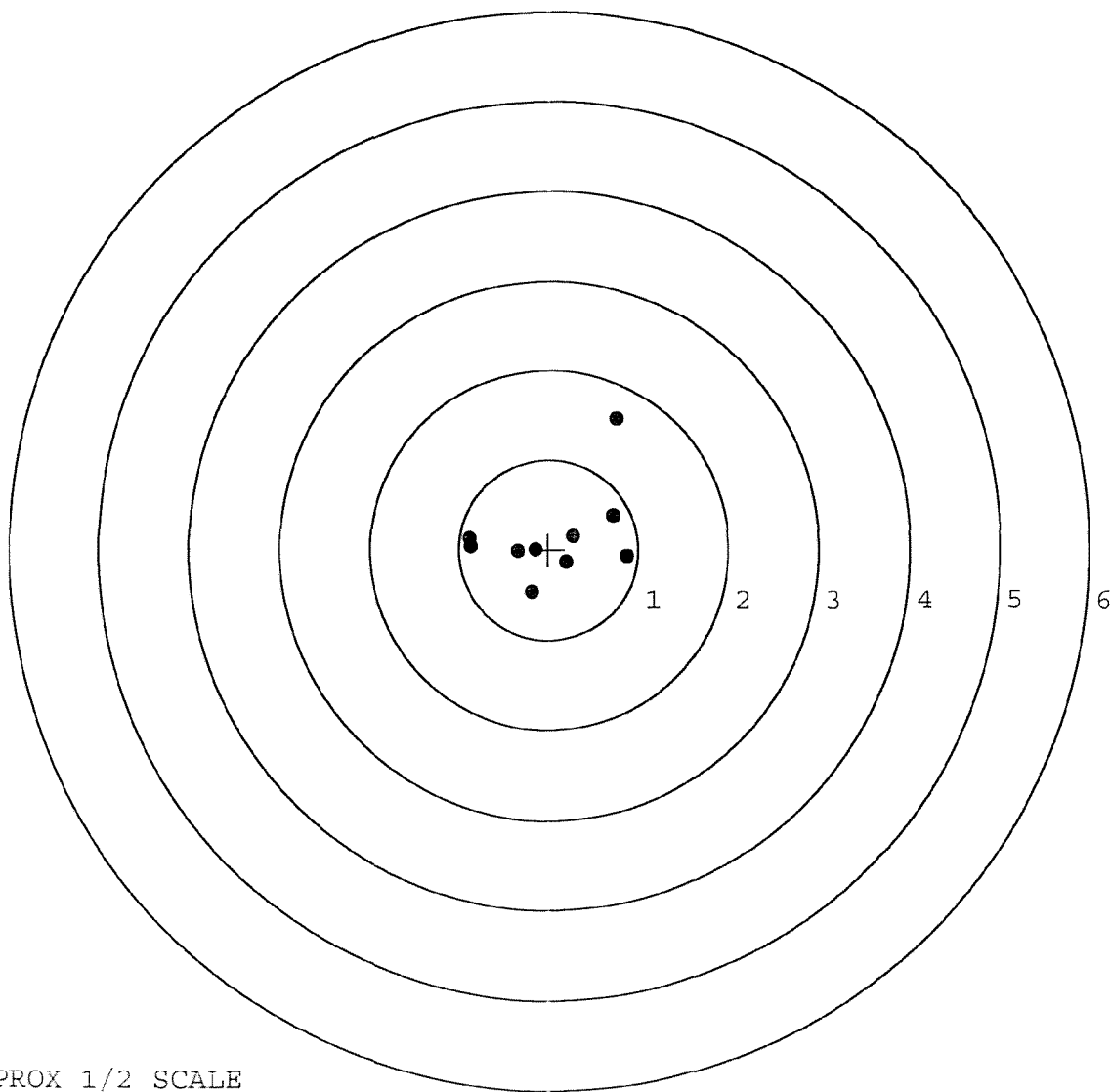
MAX RADIUS: 1.491

MEAN RADIUS: 0.679

IN 1 IN DIAMETER: 4

IN 2 IN DIAMETER: 9

in 3 IN DIAMETER: 10

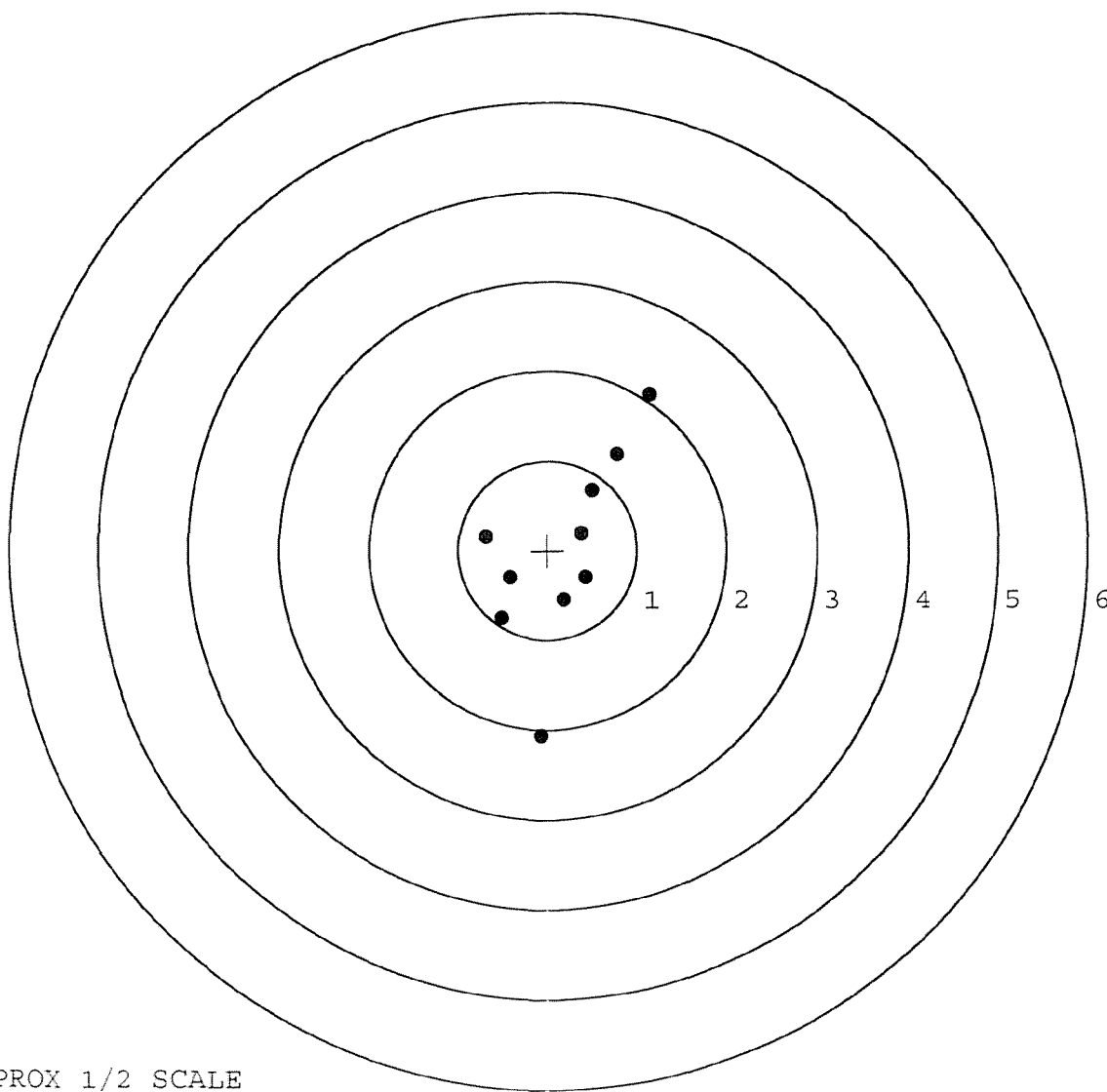


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6349100. __0
TARGET NUMBER: 2
FILE DATE: 10/06/2004
FILE TIME: 11:03

POINT#	X	Y
1:	-0.067	-2.078
2:	-0.514	-0.761
3:	-0.426	-0.313
4:	-0.690	0.152
5:	0.186	-0.556
6:	0.431	-0.307
7:	0.374	0.187
8:	0.495	0.670
9:	0.774	1.071
10:	1.141	1.734

X CENTROID: 0.170
Y CENTROID: -0.020
POA TO CENTROID: 0.172
HORZ SPREAD: 1.831
VERT SPREAD: 3.812
GROUP SPREAD: 3.999
MIN RADIUS: 0.290
MAX RADIUS: 2.072
MEAN RADIUS: 0.985
IN 1 IN DIAMETER: 2
IN 2 IN DIAMETER: 6
in 3 IN DIAMETER: 8

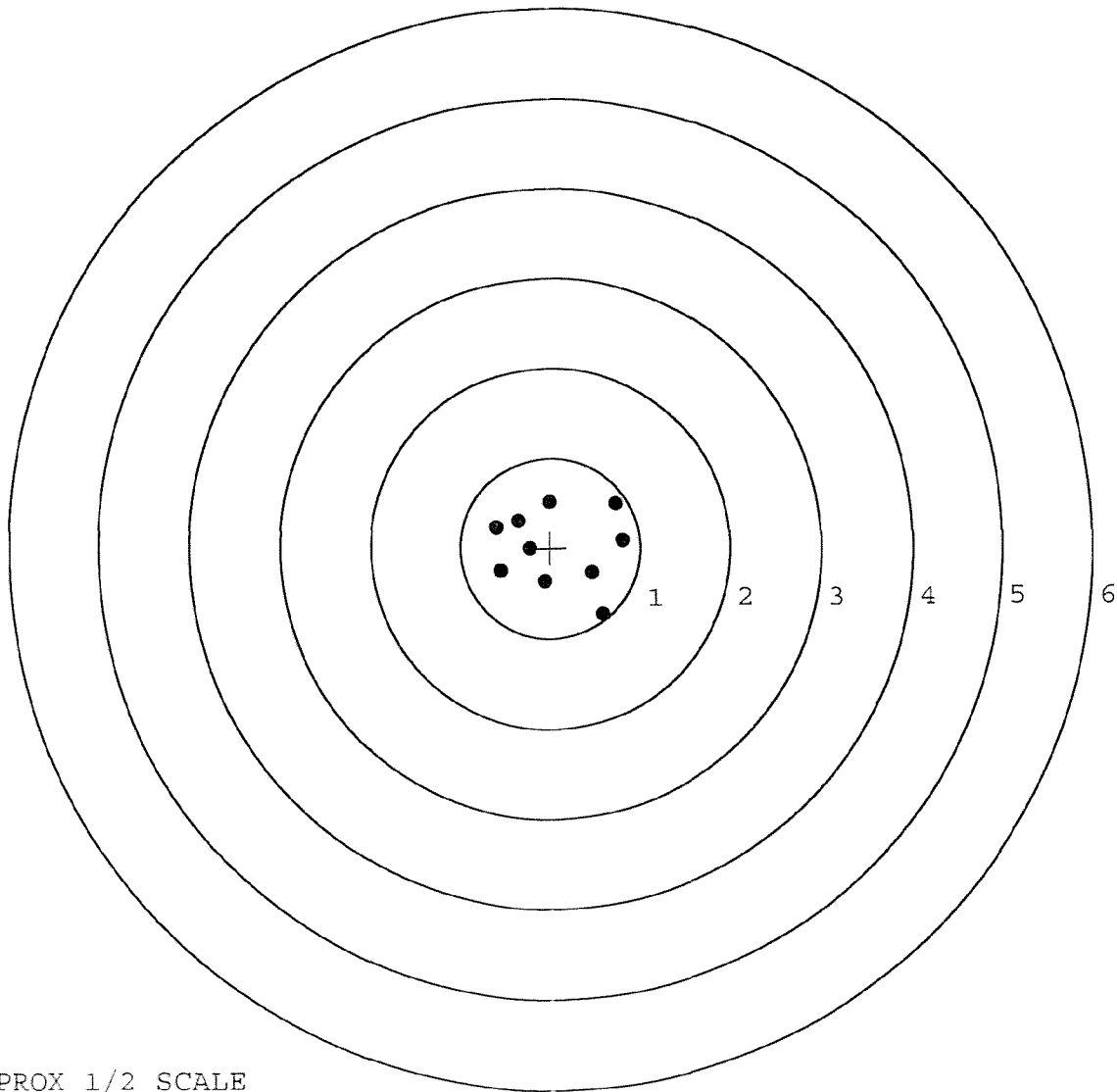


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6349100.___0
TARGET NUMBER: 3
FILE DATE: 10/06/2004
FILE TIME: 11:03

X CENTROID: 0.080
Y CENTROID: -0.005
POA TO CENTROID: 0.080
HORZ SPREAD: 1.402
VERT SPREAD: 1.255
GROUP SPREAD: 1.531
MIN RADIUS: 0.310
MAX RADIUS: 0.893
MEAN RADIUS: 0.608
IN 1 IN DIAMETER: 3
IN 2 IN DIAMETER: 10
in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.584	-0.742
2:	0.463	-0.283
3:	0.805	0.082
4:	0.738	0.490
5:	0.003	0.513
6:	-0.557	-0.255
7:	-0.064	-0.377
8:	-0.230	-0.013
9:	-0.349	0.304
10:	-0.597	0.233

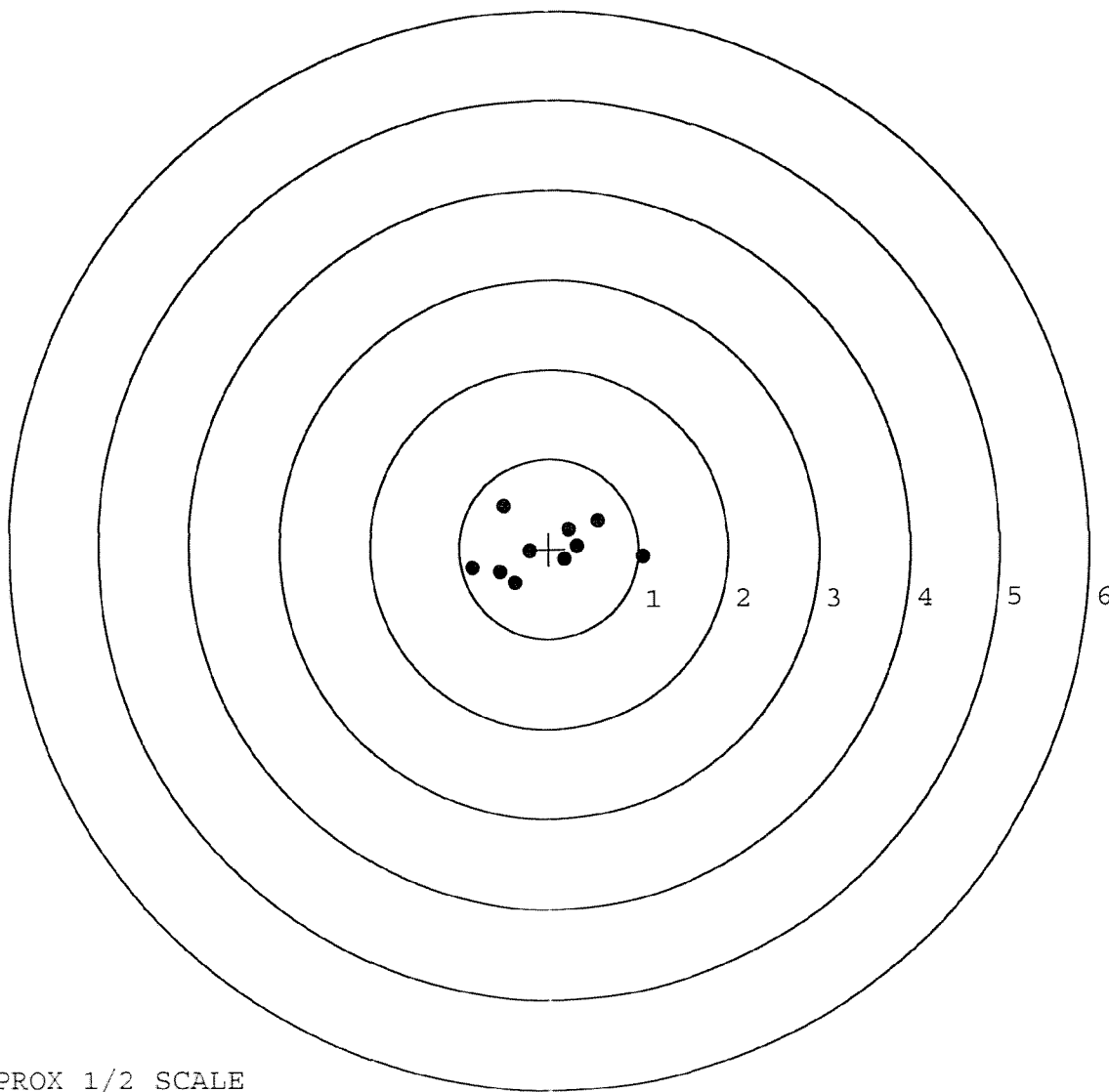


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6349100.___0
TARGET NUMBER: 4
FILE DATE: 10/06/2004
FILE TIME: 11:03

X CENTROID: -0.017
Y CENTROID: -0.004
POA TO CENTROID: 0.017
HORZ SPREAD: 1.902
VERT SPREAD: 0.851
GROUP SPREAD: 1.907
MIN RADIUS: 0.201
MAX RADIUS: 1.067
MEAN RADIUS: 0.547
IN 1 IN DIAMETER: 4
IN 2 IN DIAMETER: 9
in 3 IN DIAMETER: 10

POINT#	X	Y
1:	1.048	-0.083
2:	-0.496	0.475
3:	-0.854	-0.216
4:	-0.550	-0.259
5:	-0.380	-0.376
6:	-0.216	-0.026
7:	0.176	-0.114
8:	0.231	0.218
9:	0.560	0.307
10:	0.316	0.033

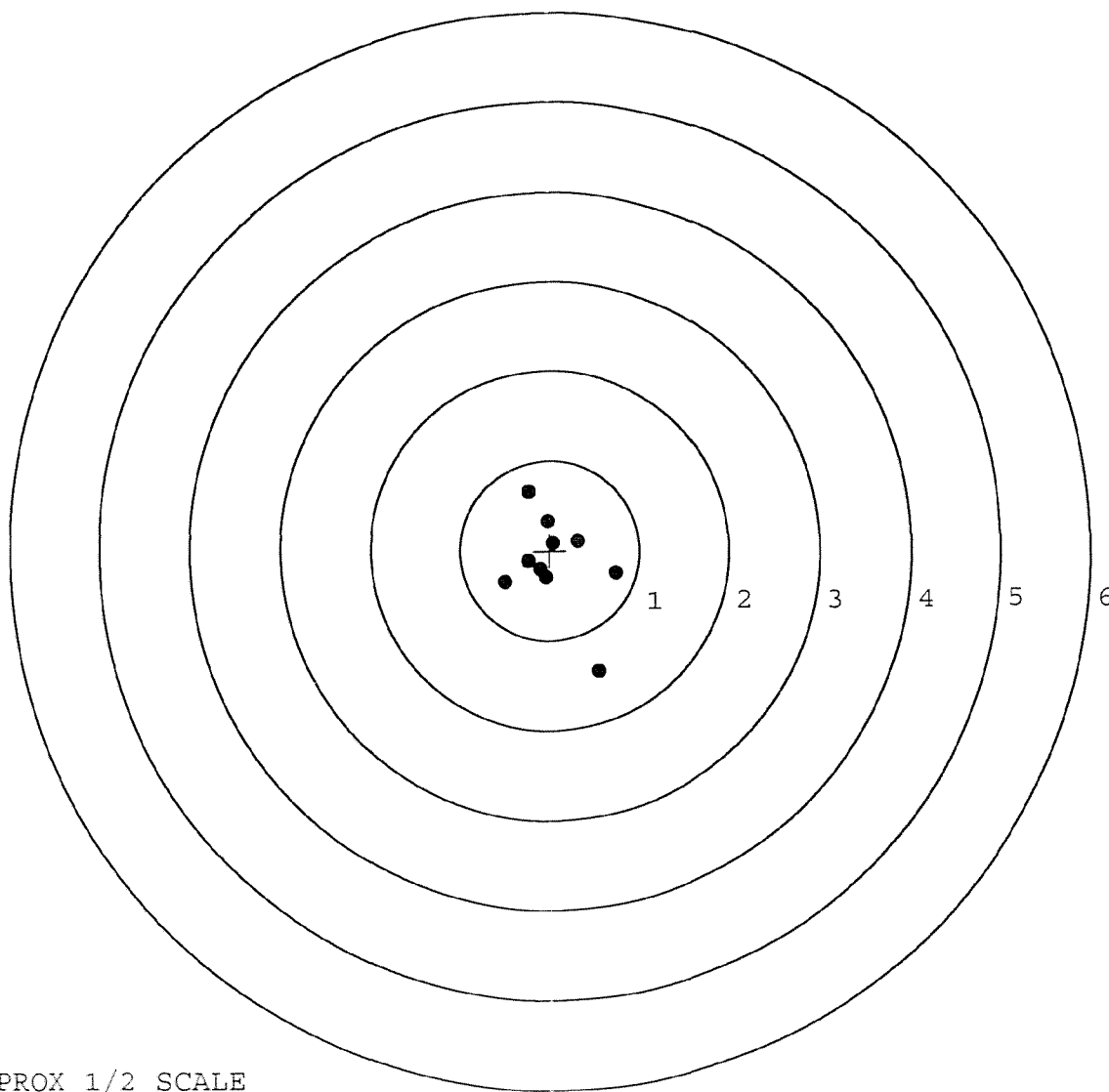


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6349100.___0
TARGET NUMBER: 5
FILE DATE: 10/06/2004
FILE TIME: 11:03

X CENTROID: 0.049
Y CENTROID: -0.141
POA TO CENTROID: 0.150
HORZ SPREAD: 1.239
VERT SPREAD: 2.005
GROUP SPREAD: 2.151
MIN RADIUS: 0.173
MAX RADIUS: 1.307
MEAN RADIUS: 0.515
IN 1 IN DIAMETER: 6
IN 2 IN DIAMETER: 9
in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.549	-1.349
2:	0.738	-0.253
3:	-0.230	0.656
4:	-0.016	0.322
5:	0.315	0.106
6:	-0.501	-0.347
7:	-0.041	-0.304
8:	-0.244	-0.120
9:	0.035	0.083
10:	-0.110	-0.208



TARGET APPROX 1/2 SCALE

M-24 INSPECTION CHECKLIST
CONTRACT #: DAAE-20-02-D-0127

R & E NUMBER			
SERIAL NUMBER	C10349100		
LOG-IN DATE	9-16-04		
INSPECT AND VERIFY:			
OPERATION #	OPERATION NAME	DATE	INITIAL
550	DIS-ASSEMBLE GUN	9-21-04	RTZ
560 A	RE-BARREL	9-22-04	RTZ
B	DRILL AND TAP	9-22-04	TRW
575	ASSEMBLE	9-22-04	RTZ
600	PROOF	9-23-04	RTZ
605	CHECK HEADSPACE	9-23-04	RTZ
610	DIS-ASSEMBLE GUN	9-23-04	RTZ
612	MAGNAFLUX		OPERATOR <i>[Signature]</i>
615	ROLLMARK CALIBER	9/24/04	B
618	ROTO-BLAST	9/27	SJC
620	APPLY COATINGS	9/28	HP
625 A	FINAL ASSEMBLY	10-4-04	RTZ
B	TRIGGER PULL TEST		
C	SAFETY "ON" FORCE		
D	SAFETY "OFF" FORCE		
E	FIRING PIN INDENT		
640	TARGET	10-6-04 9-24-04	RTZ TRW
655	FINAL INSPECT	10-7-04	RTZ
660	PACK	10-8-04	WA
		SHIP DATE	
	QAR INSPECTION DATE		




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

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

MODEL 700™ H24

SERIAL NO.
C6349100

ORDER NO.
5716

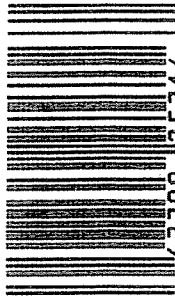
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5716 C6349100

LPC



0 47700 25716 7

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6349100

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	3 31	90	RW
600	Proof	3 31	90	RW
607	Check Headspace	3 31	90	RW
610	Dis-assemble Gun	3 31	90	RW
612	Magnaflux Barrel Action	4-2-90		KCR
	Magnaflux Bolt	4-2-90		KCR
615	Rollmark Caliber	4-2-90		SL
617	Drill and Tap Sight Holes		4/1/90	FB
618	Polish Barrel RWB		4/1/90	WB
620	Apply Coatings (Barrel Action)		4-9-90	TA
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		4/18/90	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		4/18/90	RW
	C) Inspect Ejector Hole for Chamfer		4/18/90	RW
	D) Oil Firing Pin Ass'y		4/18/90	RW
	E) Adjust Trigger Pull to Min Setting and Stake		4/30/90	SL

op. #	OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	4	4	4			5/1/90	JL
	G) Safety Off Force	2	2	2			5/1/90	JL
	H) Trigger Pull Test & Retainability						4/30/90	JL
	I) Firing Pin Indent	.0215	.022	.022			5/1/90	JL
	J) Assemble Stock						5/4/90	RW
	K) Assemble Swivel Studs						5/8/90	WB
	L) Attach Front and Rear Sight Assemblies						5/4/90	RW
	M) Iron Sight Alignment						5/4/90	RW
	N) Detach Front & Rear Sights & place in numbered container						5/4/90	RW
	O) Attach Scope to Rifle						5/4/90	JL
	P) Detach & Attach Scope 20 Times						5/4/90	JL
640	Gallery Target & Test						5-4-90	DH
	A) Time						5-4-90	DH
	B) Malfunctions						5-4-90	DH
	C) Pierced Primers						5-4-90	DH
	D) Optical Clarity of Scope						5-4-90	DH
645	Inspect for Live Ammo						5-4-90	DH
655	Final Inspection						5/8/90	WB
	A) Headspace							
	B) Trigger Pull	2.54	2.52	2.46	2.52	2.49	5/7/90	WB
	C) Function						5/8/90	WB
660	Pack						6/9/90	DH

SWS TRIGGER PULL TEST

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

SERIAL NO. 66349100

DATE 4/30/90

TESTER gcl.

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.42	2.23	2.34	2.54	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.43	2.24	2.34	2.52	
PULL #3	2.40	2.37	2.32	2.46	
PULL #4	2.37	2.37	2.31	2.52	
PULL #5	2.32	2.35	2.37	2.49	
TOTAL	11.94	11.56	11.68		
AVG.	2.388	2.312	2.336		

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.38	3.41		
PULL #2	3.43	3.43		
PULL #3	3.30	3.45		
PULL #4	3.37	3.41		
PULL #5	3.42	3.40		
TOTAL	16.90	17.10		
AVG.	3.38	3.42		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.37	4.27		4.49
PULL #2	4.30	4.28		4.42
PULL #3	4.40	4.35		4.41
PULL #4	4.34	4.27		4.42
PULL #5	4.33	4.41		4.38
TOTAL	21.64	21.58		22.12
AVG.	4.328	4.316		4.424

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6349100
7 May 1990

CENTROIDAL DISTANCES

0 TO	1	.315075
1 TO	2	.429516
1 TO	3	.701747
1 TO	4	.633676
1 TO	5	.328435

$\bar{x}_c$ <----POA

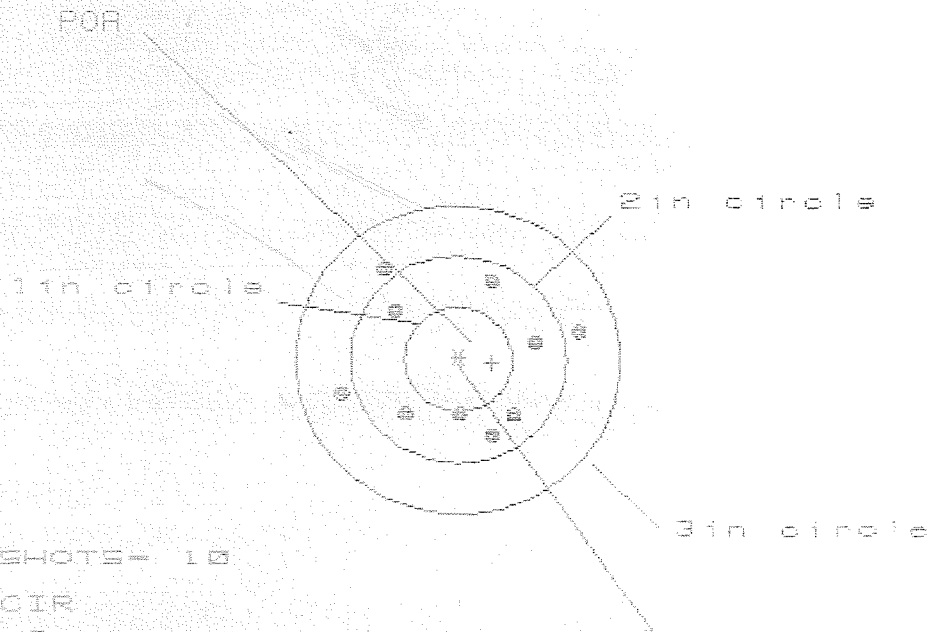
THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .0642
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.0882
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .149091

THE ANR FOR THIS RIFLE IS: .8398

7 May 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6949100.1

CENTERFIRE PATTERNS # 1



OF SHOTS= 10

IN CIR

1in = 0

2in = 7

3in = 10

HS= 2.226

VS= 1.564

GS= 2.303

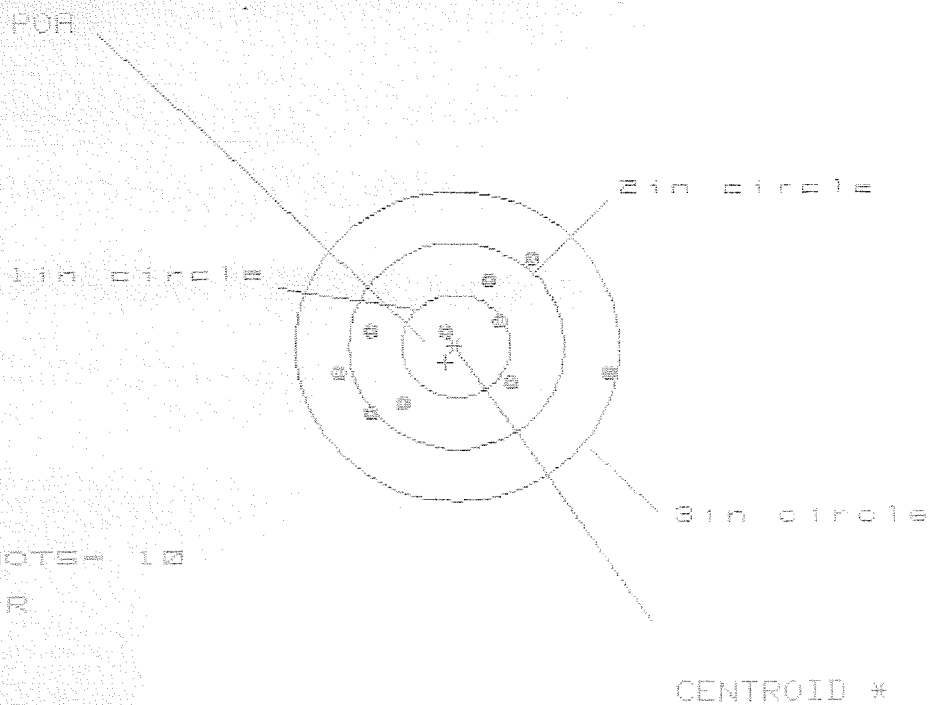
CENTROID *

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.117	.993	.694
MINIMUM X	-1.110	-.806	-.682
MAXIMUM Y	.840	.802	.828
MINIMUM Y	-.724	-.762	-.736
CENTROID X	-.314	-.190	-.314
CENTROID Y	.026	.064	.038
POR TO CENTROID IN.	.315	.201	.317
MIN RADIUS	.503	.547	.515
MEAN RADIUS	.843	.799	.767
MAX RADIUS	1.162	1.137	1.072
HORIZONTAL SPREAD	2.226	1.799	1.376
VERTICAL SPREAD	1.564	1.564	1.564
EXTREME SPREAD	2.303	1.894	1.849
NUMBER IN ONE INCH CIRCLE	=	0	
NUMBER IN TWO INCH CIRCLE	=	7	
NUMBER IN THREE INCH CIRCLE	=	10	

7 May 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6345100.1

CENTERFIRE PATTERNS # 2



OF SHOTS= 10

IN CIR

1in = 2

2in = 6

3in = 10

HS= 2.546

VS= 1.475

GS= 2.546

PATTERN #

2

SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.429	.868	.749
MINIMUM X	-1.117	-.958	-.785
MAXIMUM Y	.863	.838	.804
MINIMUM Y	-.612	-.637	-.670
CENTROID X	.096	-.063	.057
CENTROID Y	.154	.179	.212
POA TO CENTROID in.	.181	.189	.220
MIN RADIUS	.170	.151	.101
MEAN RADIUS	.832	.755	.708
MAX RADIUS	1.446	1.207	1.099
HORIZONTAL SPREAD	2.546	1.826	1.534
VERTICAL SPREAD	1.475	1.475	1.475
EXTREME SPREAD	2.546	2.137	2.117
NUMBER IN ONE INCH CIRCLE =		2	
NUMBER IN TWO INCH CIRCLE =		6	
NUMBER IN THREE INCH CIRCLE =		10	

7 May 1998

FILE:/PATTERNING/CENTERFIRE_PATT/08349100.1

CENTERFIRE PATTERNS # 3

POB

1in circle

2in circle

3in circle

OF SHOTS= 10

IN CIR

1in = 2

2in = 8

3in = 10

HE= 1.733

VS= 1.543

GS= 2.081

CENTROID *

PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.796	.875	.768
MINIMUM X	:	-.937	-.848	-.889
MAXIMUM Y	:	.632	.544	.578
MINIMUM Y	:	-.911	-.999	-.965
CENTROID X	:	.354	.265	.371
CENTROID Y	:	-.189	-.101	-.135
POB TO CENTROID in.	:	.401	.284	.395
MIN RADIUS	:	.063	.106	.104
MEAN RADIUS	:	.696	.642	.597
MAX RADIUS	:	1.121	.999	.973
HORIZONTAL SPREAD	:	1.733	1.723	1.657
VERTICAL SPREAD	:	1.543	1.543	1.543
EXTREME SPREAD	:	2.081	1.727	1.717
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		8	
NUMBER IN THREE INCH CIRCLE	=		10	

7 May 1990

FILE:/PATTERNING/CENTERFIRE_PATT/06949100.1

CENTERFIRE PATTERNS

4

POA

1 in circle

2 in circle

3 in circle

OF SHOTS- 10

IN CIR

1 in = 3

2 in = 5

3 in = 9

ME= 2.448

VS= 1.819

GS= 2.821

CENTROID *

PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.091	.941	1.027
MINIMUM X	:	-1.354	-.891	-.774
MAXIMUM Y	:	1.053	1.134	1.060
MINIMUM Y	:	-.766	-.685	-.758
CENTROID X	:	.187	.337	.220
CENTROID Y	:	-.362	-.443	-.369
POA TO CENTROID in.	:	.407	.557	.430
MIN RADIUS	:	.367	.215	.340
MEAN RADIUS	:	.883	.786	.749
MAX RADIUS	:	1.540	1.211	1.121
HORIZONTAL SPREAD	:	2.445	1.832	1.801
VERTICAL SPREAD	:	1.819	1.819	1.819
EXTREME SPREAD	:	2.821	2.312	2.161
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		9	

7 May 1998

FILE:/PATTERNING/CENTERFIRE_PATT/06349100.1

CENTERFIRE PATTERNS

5

POA

1in circle

2in circle

3in circle

OF SHOTS= 10

IN CIR

1in = 1

2in = 5

3in = 10

HE= 1.989

VS= 2.656

GS= 2.686

CENTROID #

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.977	1.010	1.001
MINIMUM X	:	-1.012	-.979	-.988
MAXIMUM Y	:	1.324	1.176	1.036
MINIMUM Y	:	-1.332	-1.195	-1.048
CENTROID X	:	-.002	-.035	-.026
CENTROID Y	:	-.070	.078	-.069
POA TO CENTROID in.	:	.070	.086	.074
MIN RADIUS	:	.156	.133	.134
MEAN RADIUS	:	.945	.895	.843
MAX RADIUS	:	1.365	1.232	1.249
HORIZONTAL SPREAD	:	1.989	1.989	1.989
VERTICAL SPREAD	:	2.656	2.371	2.084
EXTREME SPREAD	:	2.686	2.382	2.088
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		10	