

C6594598

MODEL 700TM M24

Model **SMS**TM

Action

Barrel Length

Capacity

Order No. **571E**

*Includes 1 in chamber.

Remington

Model: 700



RE00038545

M-24 INSPECTION CHECKLIST
CONTRACT #: DAAE-20-97-C-242

R & E NUMBER 38545

SERIAL NUMBER C6594598

LOG-IN DATE 1-2-01

INSPECT AND VERIFY:			
OPERATION #	OPERATION NAME	DATE	INITIAL
550	DIS-ASSEMBLE GUN	1-2-02	RL
560 A	RE-BARREL AT CUSTOM SHOP	1-3-02	BWT
B	DRILL AND TAP	1-3-02	BWT
C	POLISH		
575	ASSEMBLE		
600	PROOF	MAGNA-02 INSPECTED 1-4-02	AC
605	CHECK HEADSPACE	JAN 1-4-02	AC
610	DIS-ASSEMBLE GUN	1-4-02	AC
612	MAGNAFLUX	OPERATOR RL	
615	ROLLMARK CALIBER	1-7-02	B
618	ROTO-BLAST	1/7	KO
620	APPLY COATINGS	1/7	HP
625 A	FINAL ASSEMBLY	1/8/02	RW
B	TRIGGER PULL TEST	N/C	
C	SAFETY "ON" FORCE	N/C	
D	SAFETY "OFF" FORCE	N/C	
E	FIRING PIN INDENT	N/C	
640	TARGET	1-9-02	AC
655	FINAL INSPECT	1-10-02	B.L.
660	PACK	1-10-02	DA
		SHIP DATE	
		QAR INSPECTION DATE	

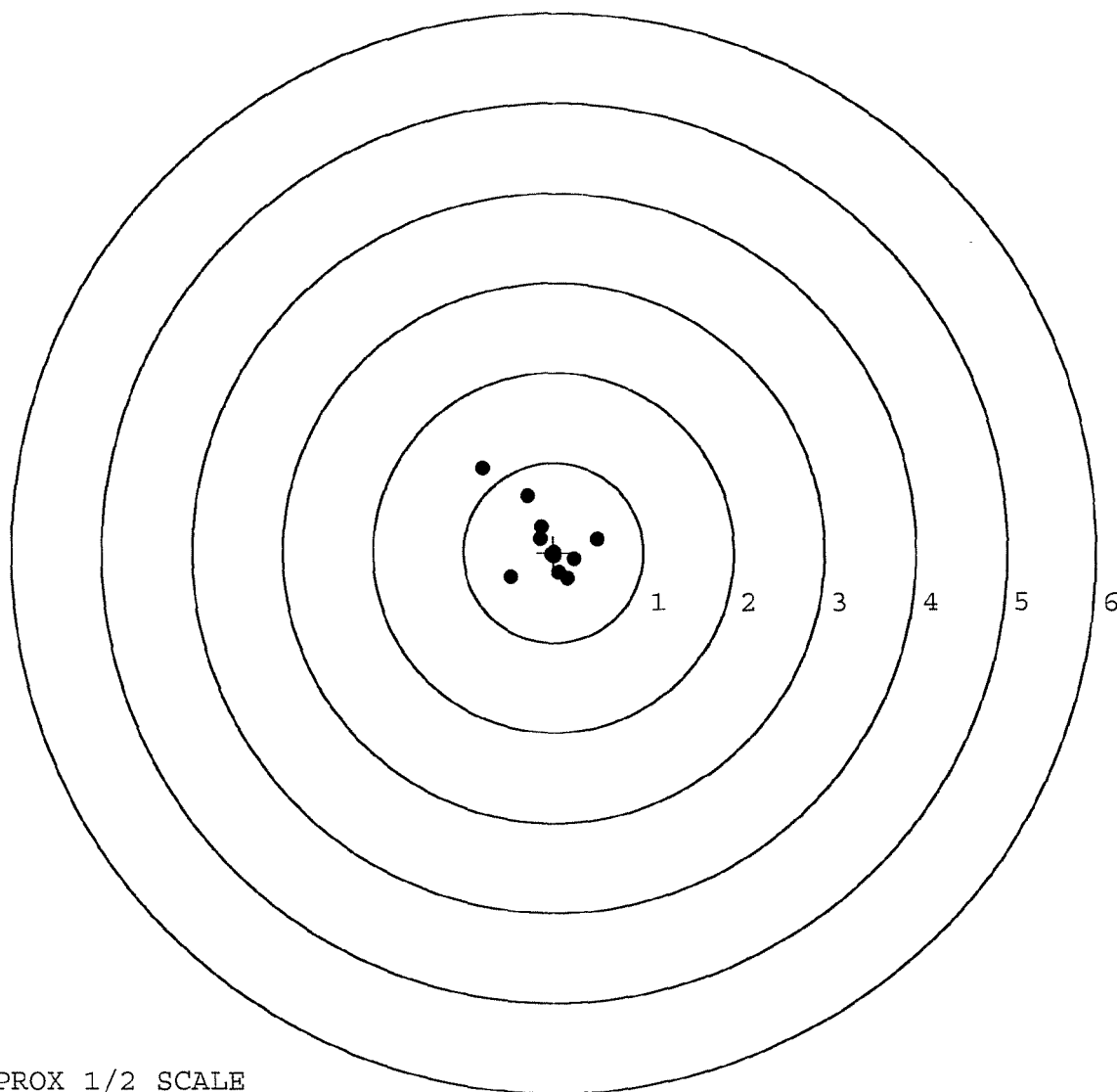
SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6594598.___0
FILE DATE AND TIME: 01/09/2002 02:25

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	-0.031
The Average Y Centroid of the Five Target Set:	-0.012
The Average Point of Impact of the Five Target Set:	0.033
The Average Mean Radius of the Five Target Set:	0.369
The Distance from POA to Centroid Target #1:	0.128
The Distance from Centroid Target #2 to Centroid Target #1:	0.205
The Distance from Centroid Target #3 to Centroid Target #1:	0.256
The Distance from Centroid Target #4 to Centroid Target #1:	0.129
The Distance from Centroid Target #5 to Centroid Target #1:	0.359

SERIAL NUMBER: C6594598. 0	POINT#	X	Y
TARGET NUMBER: 1	1:	0.000	0.000
FILE DATE: 01/09/2002	2:	-0.030	-0.029
FILE TIME: 02:25	3:	0.488	0.152
	4:	0.230	-0.078
X CENTROID: -0.080	5:	0.155	-0.295
Y CENTROID: 0.100	6:	-0.475	-0.274
POA TO CENTROID: 0.128	7:	-0.791	0.935
HORZ SPREAD: 1.279	8:	-0.293	0.627
VERT SPREAD: 1.230	9:	-0.141	0.280
GROUP SPREAD: 1.552	10:	-0.158	0.152
MIN RADIUS: 0.094	11:	-0.002	-0.046
MAX RADIUS: 1.097	12:	0.059	-0.221
MEAN RADIUS: 0.389			
# IN 1 IN DIAMETER: 8			
# IN 2 IN DIAMETER: 11			
# in 3 IN DIAMETER: 12			



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6594598. 0

TARGET NUMBER: 2

FILE DATE: 01/09/2002

FILE TIME: 02:25

X CENTROID: 0.116

Y CENTROID: 0.038

POA TO CENTROID: 0.122

HORZ SPREAD: 1.260

VERT SPREAD: 0.405

GROUP SPREAD: 1.291

MIN RADIUS: 0.073

MAX RADIUS: 0.872

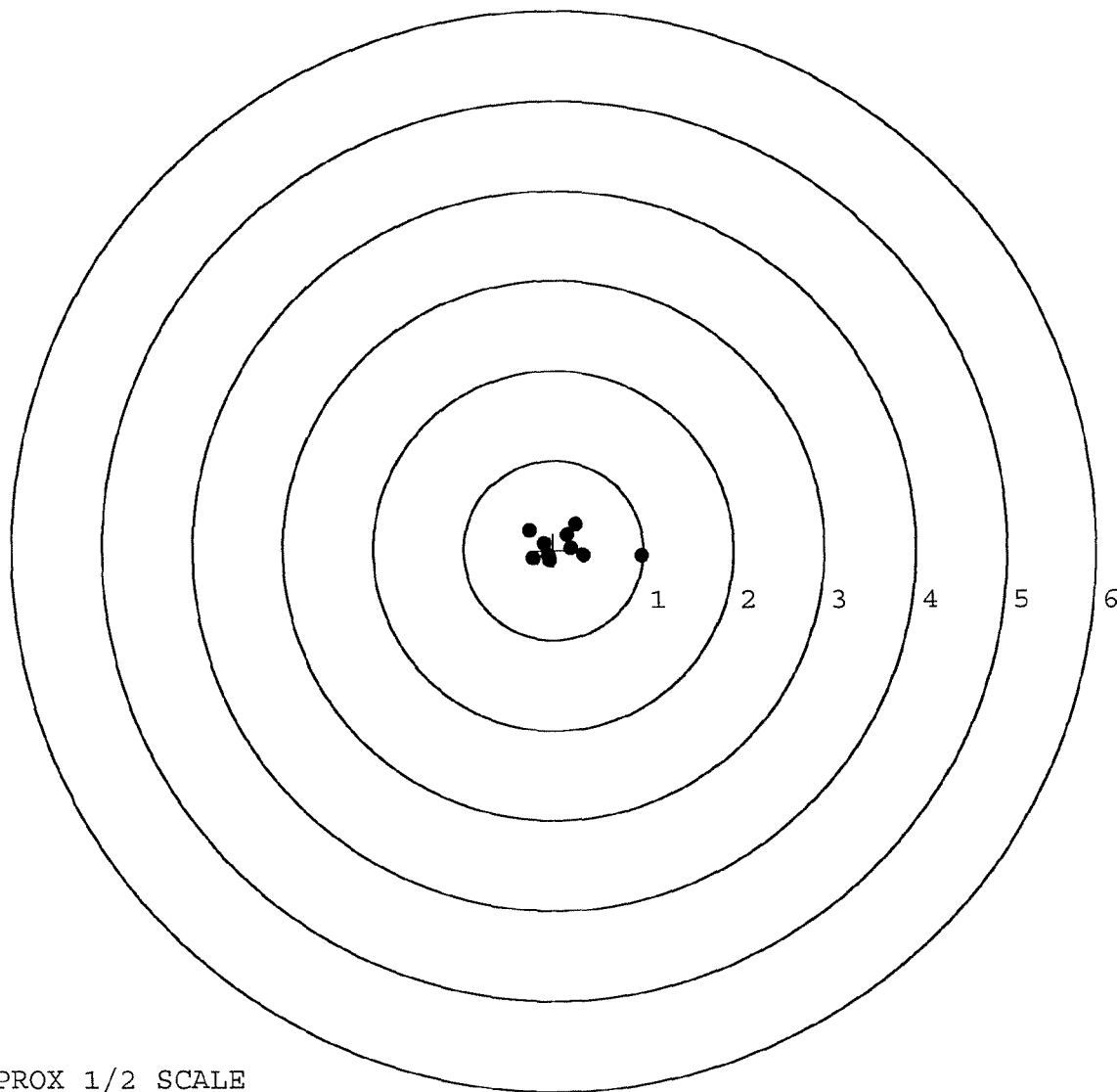
MEAN RADIUS: 0.307

IN 1 IN DIAMETER: 9

IN 2 IN DIAMETER: 10

in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.982	-0.063
2:	0.246	0.289
3:	-0.278	0.219
4:	-0.233	-0.094
5:	-0.063	-0.066
6:	0.328	-0.058
7:	0.150	0.170
8:	-0.111	0.079
9:	-0.052	-0.116
10:	0.187	0.022



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6594598. 0

TARGET NUMBER: 3

FILE DATE: 01/09/2002

FILE TIME: 02:25

X CENTROID: -0.049

Y CENTROID: -0.153

POA TO CENTROID: 0.161

HORZ SPREAD: 1.173

VERT SPREAD: 1.222

GROUP SPREAD: 1.303

MIN RADIUS: 0.036

MAX RADIUS: 0.702

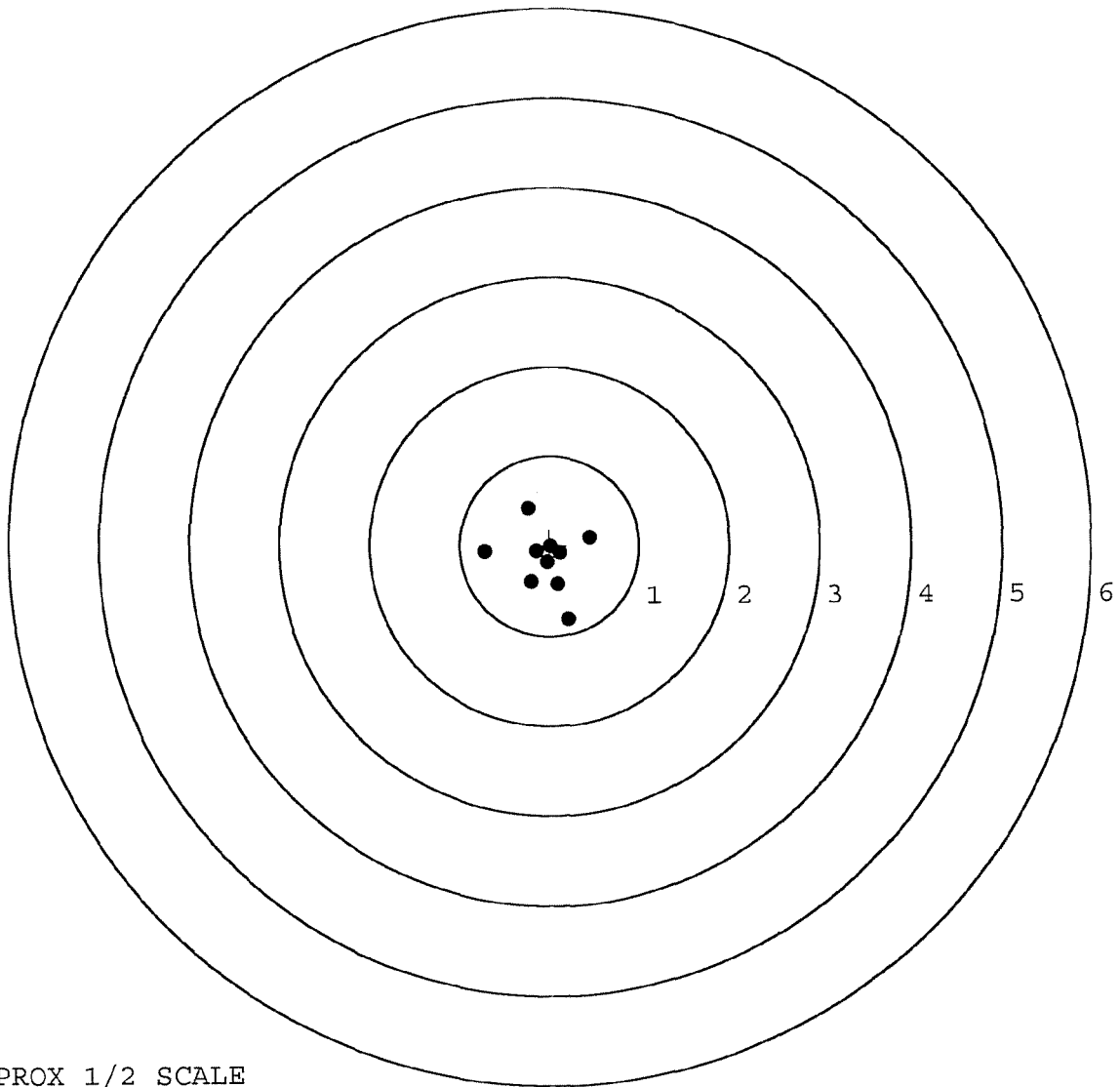
MEAN RADIUS: 0.365

IN 1 IN DIAMETER: 6

IN 2 IN DIAMETER: 10

in 3 IN DIAMETER: 10

POINT#	X	Y
1:	-0.246	0.414
2:	-0.722	-0.061
3:	0.205	-0.808
4:	-0.209	-0.405
5:	0.087	-0.429
6:	-0.147	-0.061
7:	0.114	-0.086
8:	0.451	0.099
9:	0.013	-0.012
10:	-0.032	-0.185



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6594598. 0

TARGET NUMBER: 4

FILE DATE: 01/09/2002

FILE TIME: 02:25

X CENTROID: -0.016

Y CENTROID: 0.212

POA TO CENTROID: 0.213

HORZ SPREAD: 0.962

VERT SPREAD: 1.231

GROUP SPREAD: 1.299

MIN RADIUS: 0.034

MAX RADIUS: 0.800

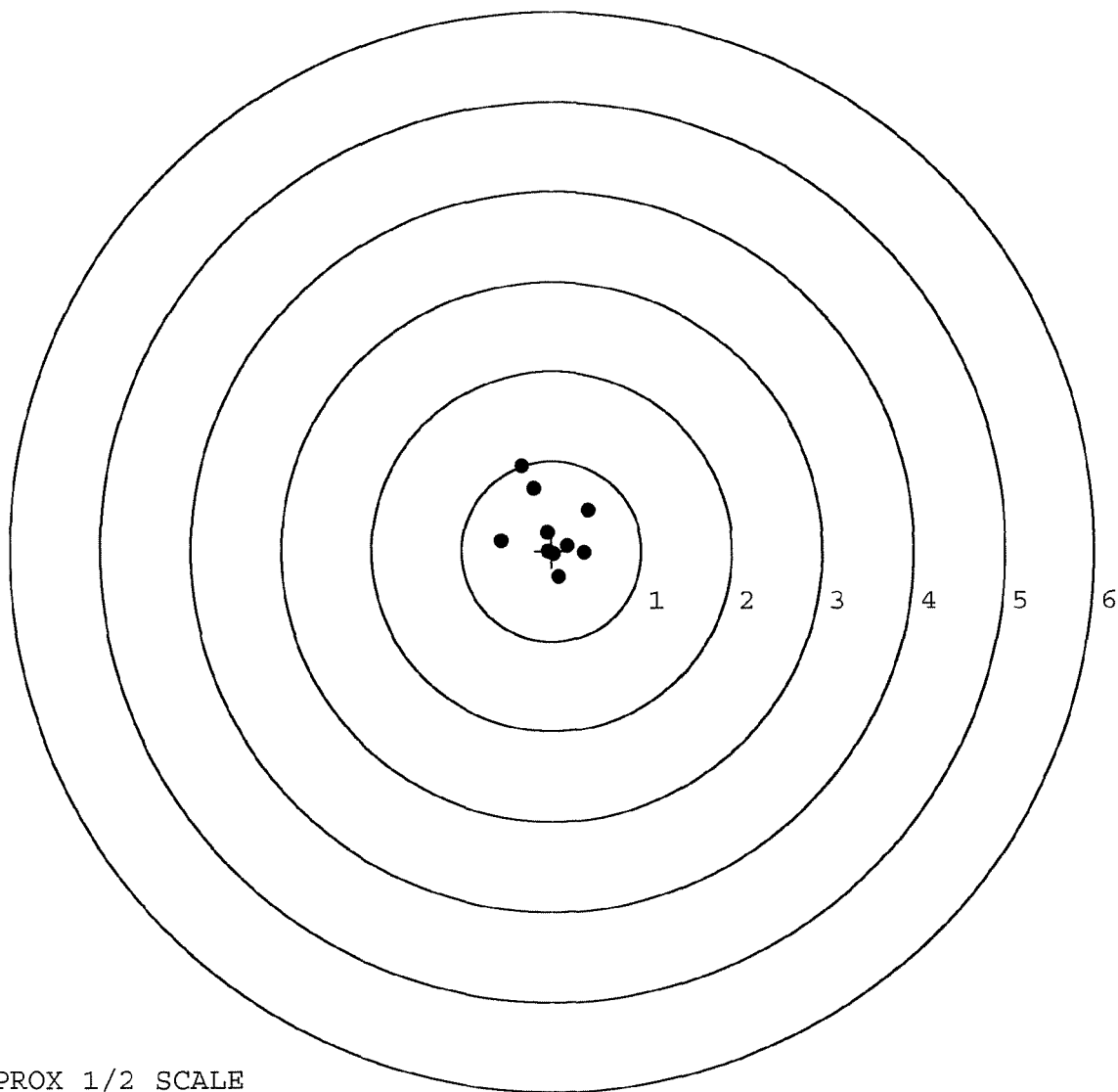
MEAN RADIUS: 0.406

IN 1 IN DIAMETER: 6

IN 2 IN DIAMETER: 10

in 3 IN DIAMETER: 10

POINT#	X	Y
1:	-0.338	0.944
2:	-0.206	0.691
3:	-0.561	0.118
4:	0.078	-0.287
5:	0.363	-0.018
6:	0.401	0.457
7:	-0.048	0.202
8:	-0.043	-0.008
9:	0.176	0.060
10:	0.022	-0.037



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6594598. 0

TARGET NUMBER: 5

FILE DATE: 01/09/2002

FILE TIME: 02:25

X CENTROID: -0.128

Y CENTROID: -0.256

POA TO CENTROID: 0.286

HORZ SPREAD: 0.602

VERT SPREAD: 1.440

GROUP SPREAD: 1.531

MIN RADIUS: 0.150

MAX RADIUS: 1.200

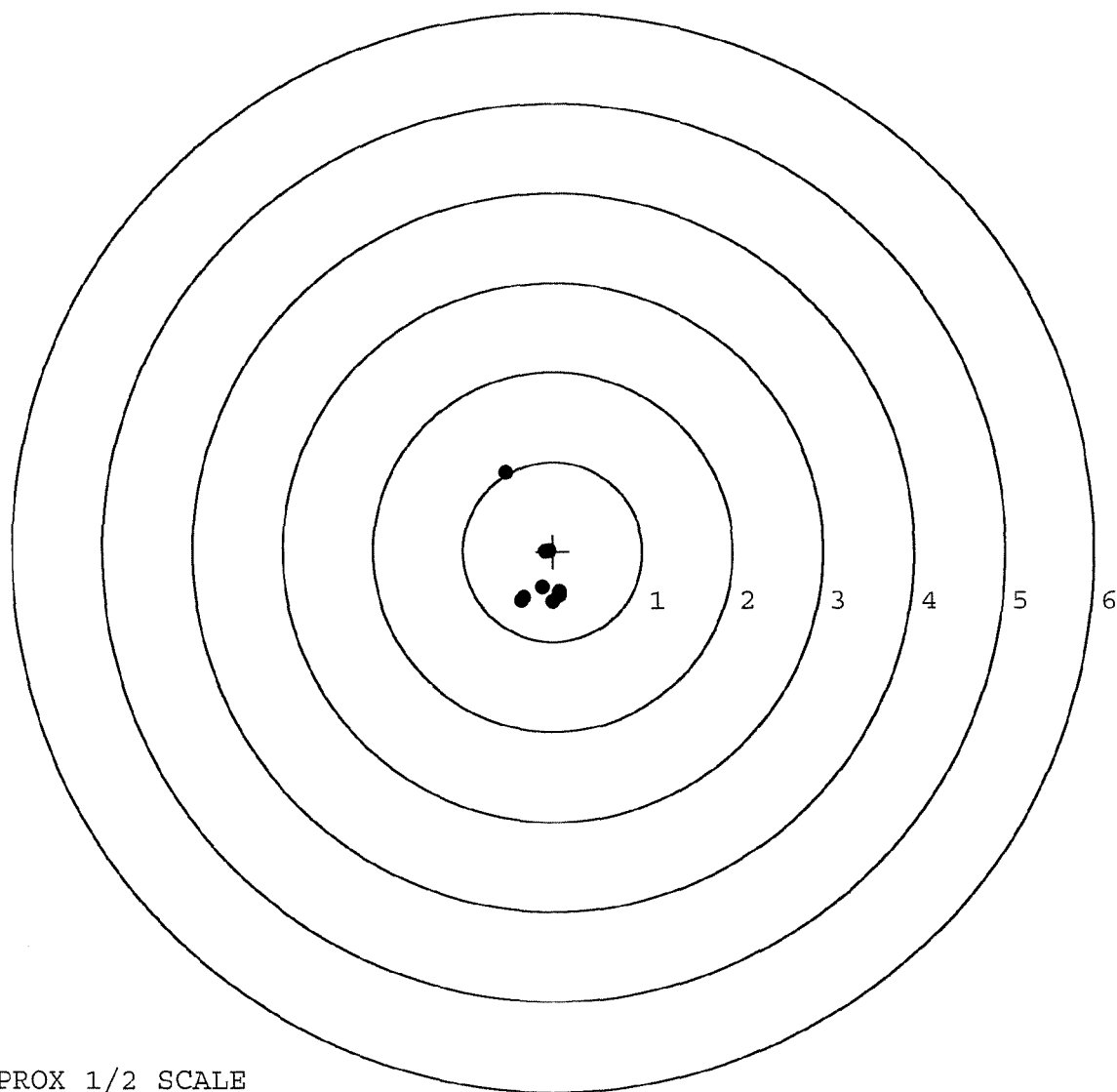
MEAN RADIUS: 0.379

IN 1 IN DIAMETER: 9

IN 2 IN DIAMETER: 9

in 3 IN DIAMETER: 10

POINT#	X	Y
1:	-0.333	-0.515
2:	-0.356	-0.553
3:	0.072	-0.487
4:	-0.043	0.013
5:	-0.011	-0.565
6:	-0.123	-0.406
7:	0.066	-0.467
8:	-0.089	-0.002
9:	0.070	-0.450
10:	-0.530	0.875



TARGET APPROX 1/2 SCALE

 		VERY IMPORTANT: Instruction Book enclosed to assure safe use of this firearm.
MODEL 700™ M24		SERIAL NO. C6594598
MADE IN ILION, N.Y. U.S.A. Reg. U.S. Pat & Tm. Off. Marca Registrada Marque Deposee.		ORDER NO. 5716



CONTRACT # DAAA21-87-C-0086

GUN SERIAL #

C 6594598

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock		12/24/30	K.S.
600	Proof		12/24/30	K.S.
607	Check Headspace		12/24/30	K.S.
610	Dis-assemble Gun		12/24/30	K.S.
612	Magnaflux Barrel Action		1-7-91	KR
	Magnaflux Bolt		1-7-91	KR
615	Rollmark Caliber		1-7-91	LG
617	Drill and Tap Sight Holes	1	10 91	FB
618	Polish Barrel	1	10 91	WB
620	Apply Coatings (Barrel Action)		1-26-91	JA
	Apply Coating (Bolt)		1-26-91	JA
625	Final Assembly A) Clean inside of Bolt Assembly		2/6/91	KJ
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		2/6/91	KJ
	C) Inspect Ejector Hole for Chamfer		2/6/91	KJ
	D) Oil Firing Pin Ass'y		2/6/91	KJ
	E) Adjust Trigger Pull to Min Setting and Stake		2/7/91	JK

op. #	BARBER - M24 0020030 OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	5	5	5			2/7/91	WB
	G) Safety Off Force	3 1/2	3 1/2	3 1/2			2/7/91	WB
	H) Trigger Pull Test & Retainability						2/7/91	JF
	I) Firing Pin Indent	.0205	.020	.0205			2/7/91	WB
	J) Assemble Stock						2/7/91	KJ
	K) Assemble Swivel Studs						2-25-91	K
	L) Attach Front and Rear Sight Assemblies						2/7/91	KJ
	M) Iron Sight Alignment						2/7/91	KJ
	N) Detach Front & Rear Sights & place in numbered container						2/7/91	KJ
	O) Attach Scope to Rifle						2/7/91	KJ
P) Detach & Attach Scope 20 Times						2/7/91	KJ	
640	Gallery Target & Test						2-8-91	AC
	A) Time						2-8-91	AC
	B) Malfunctions						2-8-91	AC
	C) Pierced Primers						2-8-91	AC
	D) Optical Clarity of Scope						2-8-91	AC
645	Inspect for Live Ammo						2-8-91	AC
655	Final Inspection						2-25-91	AC
	A) Headspace							
	B) Trigger Pull	2.35	2.34	2.36	2.34	2.40	2/25/91	JF
	C) Function						2-25-91	K
660	Pack						3-14-91	NF

MOD. _____		GA. CAL. _____	GUN # _____
#	DATE	MALFUNCTION/DEFECT	ASSEM. #
	1st	Creep in trigger	KS
	2nd	Chips in stock	2/13/91
	3rd	Repaired stock	91
		NEW	
		F/C 2/18/91	KS
	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		

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# ± .50#

3.00# ± .75#

4.00# ± 1.00#

SERIAL NO. C6594598

DATE 7/12/91

TESTER JEL

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.26	2.20	2.28	2.35	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.35	2.29	2.20	2.34	
PULL #3	2.33	2.22	2.31	2.36	
PULL #4	2.25	2.27	2.20	2.34	
PULL #5	2.32	2.18	2.23	2.40	
TOTAL					
AVG.					

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.49	3.40		
PULL #2	3.50	3.37		
PULL #3	3.27	3.50		
PULL #4	3.49	3.31		
PULL #5	3.28	3.32		
TOTAL				
AVG.				

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.22	4.12		4.26
PULL #2	4.22	4.17		4.46
PULL #3	4.25	4.39		4.35
PULL #4	4.19	4.34		4.34
PULL #5	4.23	4.42		4.33
TOTAL				
AVG.				

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6594598
8 Feb 1991

CENTROIDAL DISTANCES

0 TO	1	.153118
1 TO	2	.29129
1 TO	3	.450362
1 TO	4	.540856
1 TO	5	.565106

H₃ <----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .2026
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .084
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .219323

THE AMR FOR THIS RIFLE IS: .7962

8 Feb 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6594598

CENTERFIRE PATTERNS # 1

POA

1 in circle

2 in circle

3 in circle

OF SHOTS = 10

IN CIR

1 in = 2

2 in = 7

3 in = 10

HS = 1.856

VS = 2.365

GS = 2.472

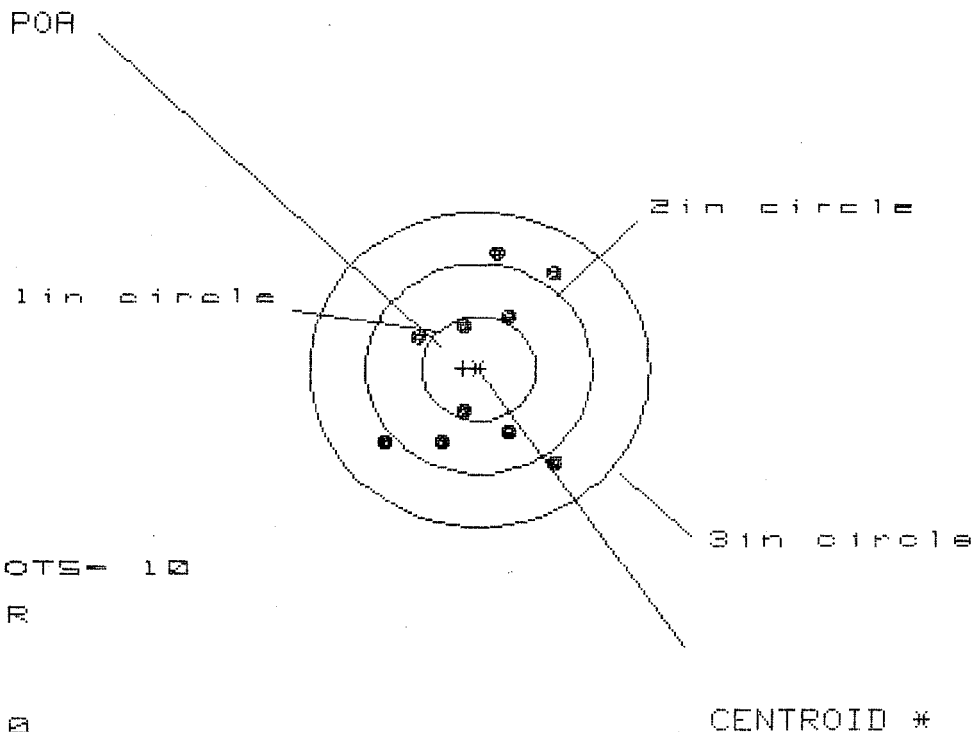
CENTROID #

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.845	.787	.654
MINIMUM X	-1.011	-1.069	-.559
MAXIMUM Y	1.016	.866	.930
MINIMUM Y	-1.349	-.952	-.888
CENTROID X	-.153	-.095	.038
CENTROID Y	.006	.156	.092
POA TO CENTROID in.	.153	.183	.100
MIN RADIUS	.058	.161	.166
MEAN RADIUS	.773	.684	.601
MAX RADIUS	1.445	1.183	.930
HORIZONTAL SPREAD	1.856	1.856	1.213
VERTICAL SPREAD	2.365	1.818	1.818
EXTREME SPREAD	2.472	2.049	1.820
NUMBER IN ONE INCH CIRCLE =	2		
NUMBER IN TWO INCH CIRCLE =	7		
NUMBER IN THREE INCH CIRCLE =	10		

8 Feb 1991

FILE:/PATTERNING/CENTERFIRE_PATT/06594598

CENTERFIRE PATTERNS # 2



OF SHOTS- 10

IN CIR

1 in - 2

2 in - 6

3 in = 10

HS- 1.530

VS= 1.968

GS= 2.254

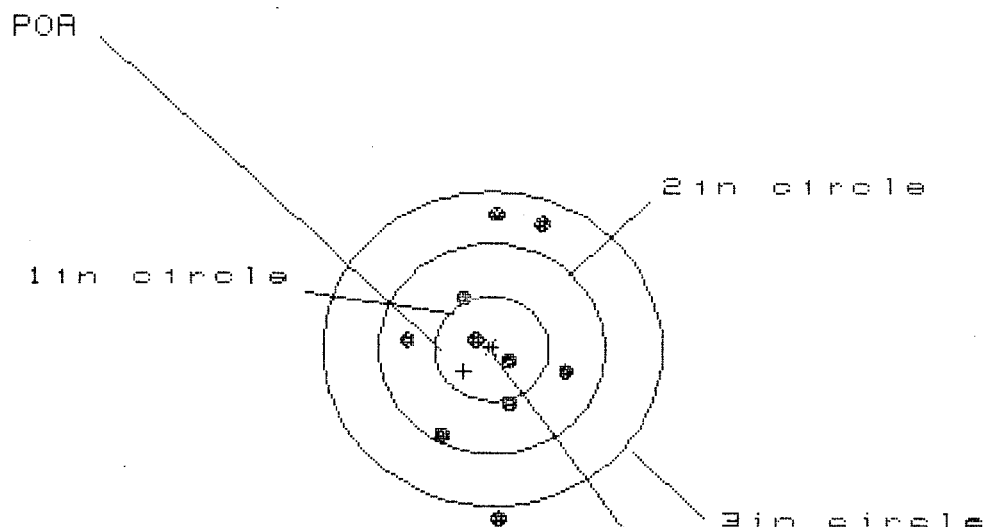
CENTROID #

PATTERN #	:	2	9	8
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.676	.751	.654
MINIMUM X	:	-.854	-.779	-.558
MAXIMUM Y	:	1.101	1.204	1.125
MINIMUM Y	:	-.867	-.764	-.843
CENTROID X	:	.138	.063	.160
CENTROID Y	:	-.007	-.110	-.031
POR TO CENTROID in.	:	.138	.127	.163
MIN RADIUS	:	.378	.263	.378
MEAN RADIUS	:	.787	.732	.702
MAX RADIUS	:	1.145	1.224	1.132
HORIZONTAL SPREAD	:	1.530	1.530	1.212
VERTICAL SPREAD	:	1.968	1.968	1.968
EXTREME SPREAD	:	2.254	2.087	2.039
NUMBER IN ONE INCH CIRCLE	=	2		
NUMBER IN TWO INCH CIRCLE	=	6		
NUMBER IN THREE INCH CIRCLE	=	10		

8 Feb 1991

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CENTERFIRE PATTERNS # 3



OF SHOTS- 10

IN CIR

1 in = 2

2 in = 7

3 in = 9

HS= 1.434

VS= 2.979

GS= 2.980

CENTROID #

PATTERN #	3	3	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.696	.705	.708
MINIMUM X	-.738	-.729	-.726
MAXIMUM Y	1.324	1.140	1.146
MINIMUM Y	-1.655	-.967	-.825
CENTROID X	.248	.239	.236
CENTROID Y	.211	.395	.253
POA TO CENTROID in.	.326	.462	.346
MIN RADIUS	.197	.173	.165
MEAN RADIUS	.805	.710	.634
MAX RADIUS	1.657	1.140	1.226
HORIZONTAL SPREAD	1.434	1.434	1.434
VERTICAL SPREAD	2.979	2.107	1.971
EXTREME SPREAD	2.980	2.151	2.141
NUMBER IN ONE INCH CIRCLE =	2		
NUMBER IN TWO INCH CIRCLE =	7		
NUMBER IN THREE INCH CIRCLE =	9		

8 Feb 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C8534598

CENTERFIRE PATTERNS

4

POA

1 in circle

2 in circle

3 in circle

CENTROID *

OF SHOTS- 10

IN CIR

1 in = 4

2 in = 7

3 in = 9

HS= 1.581

VS= 2.083

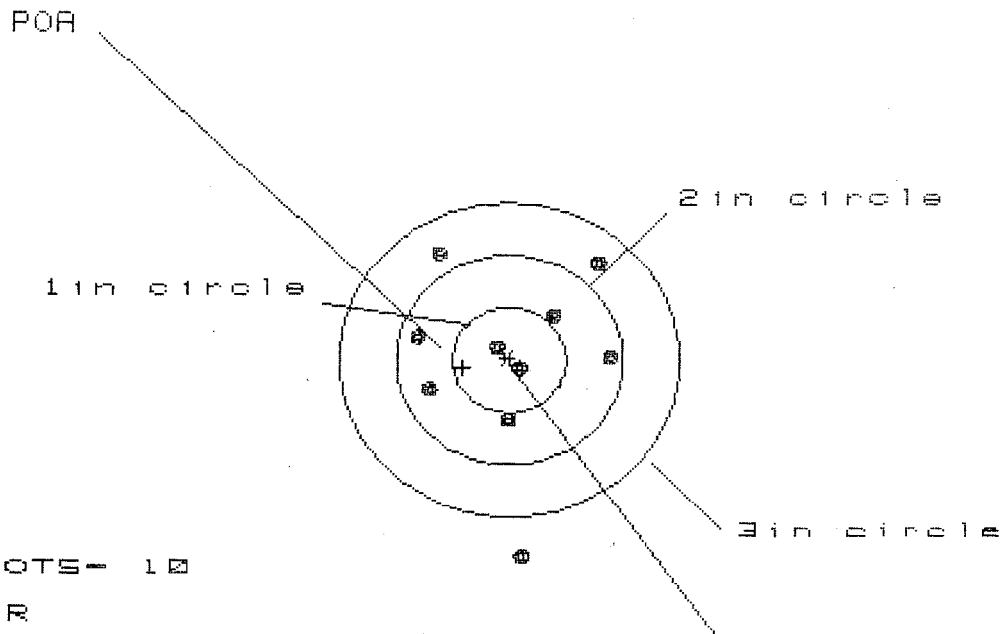
GS= 2.478

PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.502	.382	.333
MINIMUM X	:	-1.079	-.822	-.871
MAXIMUM Y	:	.888	.771	.607
MINIMUM Y	:	-1.195	-1.312	-1.116
CENTROID X	:	.372	.492	.541
CENTROID Y	:	.136	.253	.417
POA TO CENTROID in.	:	.396	.553	.683
MIN RADIUS	:	.280	.120	.143
MEAN RADIUS	:	.807	.671	.559
MAX RADIUS	:	1.507	1.368	1.146
HORIZONTAL SPREAD	:	1.581	1.204	1.204
VERTICAL SPREAD	:	2.083	2.083	1.723
EXTREME SPREAD	:	2.478	2.191	1.942
NUMBER IN ONE INCH CIRCLE	=		4	
NUMBER IN TWO INCH CIRCLE	=		7	
NUMBER IN THREE INCH CIRCLE	=		9	

8 Feb 1991

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CENTERFIRE PATTERNS # 5



OF SHOTS- 10

IN CIR

1 in = 2

2 in = 7

3 in = 9

HS= 1.632

VS= 2.834

GS= 2.917

CENTROID #

PATTERN #	:	5	9	8
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.864	.874	.977
MINIMUM X	:	-.768	-.758	-.655
MAXIMUM Y	:	1.009	.806	.897
MINIMUM Y	:	-1.825	-.752	-.661
CENTROID X	:	.408	.398	.295
CENTROID Y	:	.074	.277	.186
POA TO CENTROID in.	:	.414	.484	.349
MIN RADIUS	:	.122	.103	.045
MEAN RADIUS	:	.809	.694	.625
MAX RADIUS	:	1.827	1.095	1.022
HORIZONTAL SPREAD	:	1.632	1.632	1.632
VERTICAL SPREAD	:	2.834	1.558	1.558
EXTREME SPREAD	:	2.917	1.992	1.755
NUMBER IN ONE INCH CIRCLE =	:	2		
NUMBER IN TWO INCH CIRCLE =	:	7		
NUMBER IN THREE INCH CIRCLE =	:	9		