

C6611613

MODEL 700TM M24

Model **SMS** TM

Action

Barrel Length

Capacity

Order No. **5716**

*Includes 1 in chamber.

Remington

Serial Number: C6611613

Model: 700



RE00037087

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6611613.___0
FILE DATE AND TIME: 12/21/2001 02:31

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

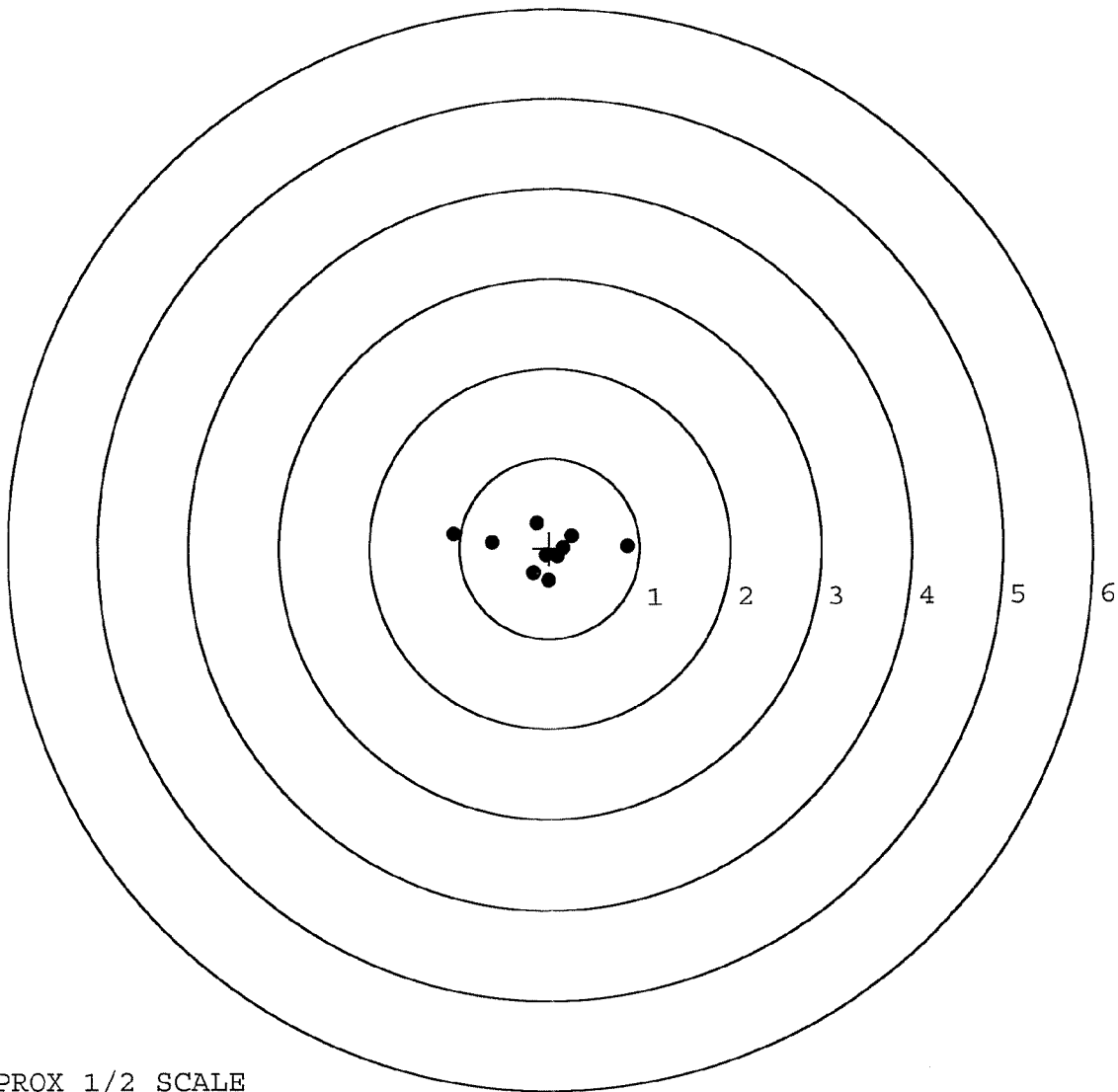
The Average X Centroid of the Five Target Set:	0.030
The Average Y Centroid of the Five Target Set:	0.060
The Average Point of Impact of the Five Target Set:	0.067
The Average Mean Radius of the Five Target Set:	0.510
The Distance from POA to Centroid Target #1:	0.074
The Distance from Centroid Target #2 to Centroid Target #1:	0.294
The Distance from Centroid Target #3 to Centroid Target #1:	0.124
The Distance from Centroid Target #4 to Centroid Target #1:	0.302
The Distance from Centroid Target #5 to Centroid Target #1:	0.196

BARBER - M24 0079611

SERIAL NUMBER: C6611613. __0
 TARGET NUMBER: 1
 FILE DATE: 12/21/2001
 FILE TIME: 02:31

POINT#	X	Y
1:	0.865	0.018
2:	0.249	0.138
3:	-0.145	0.285
4:	-0.634	0.071
5:	-1.063	0.173
6:	-0.186	-0.279
7:	-0.019	-0.364
8:	0.088	-0.099
9:	0.158	0.002
10:	-0.042	-0.084

X CENTROID: -0.073
 Y CENTROID: -0.014
 POA TO CENTROID: 0.074
 HORZ SPREAD: 1.928
 VERT SPREAD: 0.649
 GROUP SPREAD: 1.934
 MIN RADIUS: 0.077
 MAX RADIUS: 1.008
 MEAN RADIUS: 0.431
 # IN 1 IN DIAMETER: 7
 # IN 2 IN DIAMETER: 9
 # in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6611613. 0

TARGET NUMBER: 2

FILE DATE: 12/21/2001

FILE TIME: 02:31

X CENTROID: -0.105

Y CENTROID: 0.278

POA TO CENTROID: 0.297

HORZ SPREAD: 1.310

VERT SPREAD: 1.796

GROUP SPREAD: 1.803

MIN RADIUS: 0.115

MAX RADIUS: 1.243

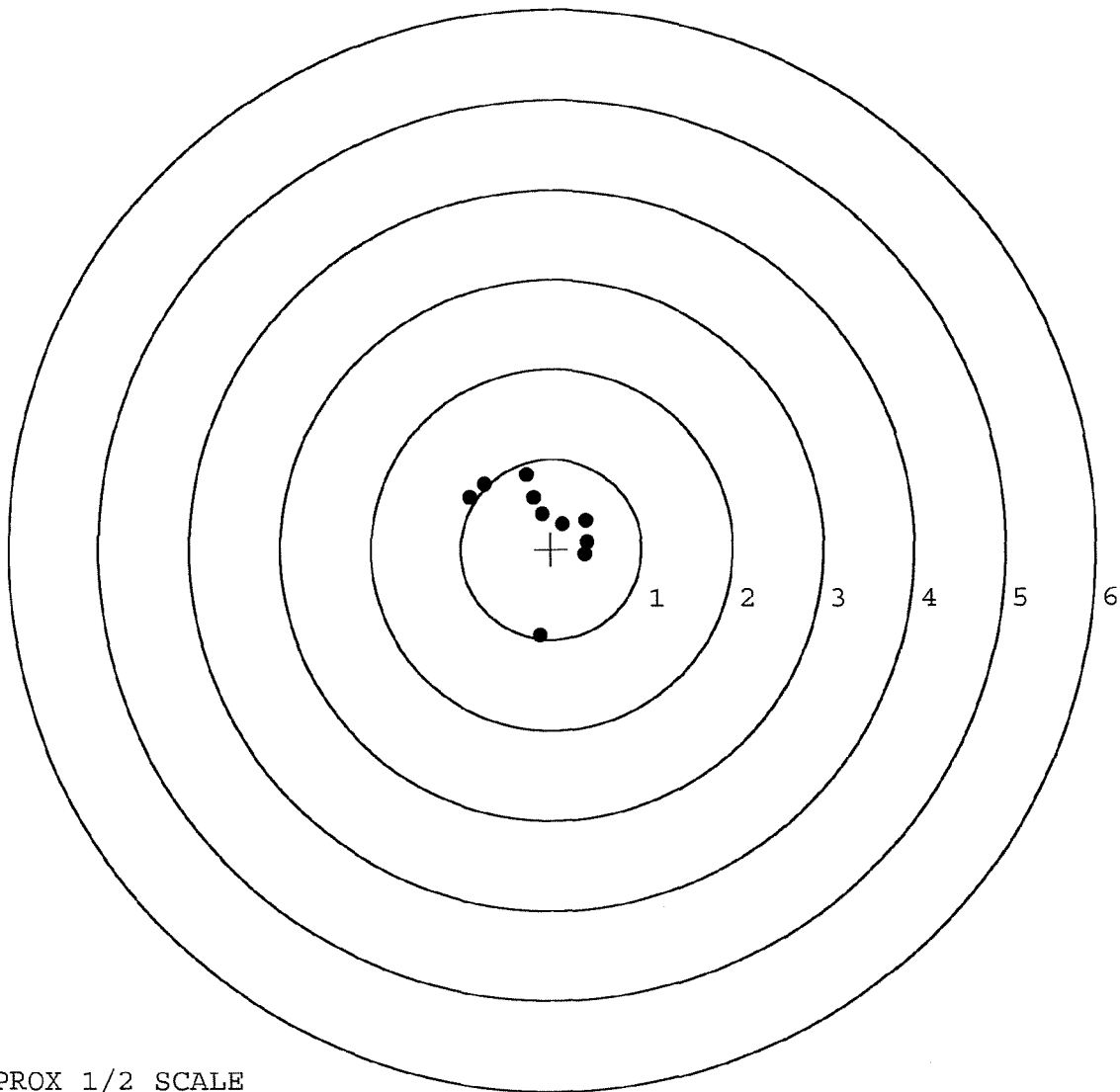
MEAN RADIUS: 0.573

IN 1 IN DIAMETER: 4

IN 2 IN DIAMETER: 9

in 3 IN DIAMETER: 10

POINT#	X	Y
1:	-0.127	-0.965
2:	-0.904	0.586
3:	-0.738	0.731
4:	-0.276	0.831
5:	-0.194	0.576
6:	-0.102	0.393
7:	0.123	0.279
8:	0.386	0.322
9:	0.374	-0.054
10:	0.406	0.082

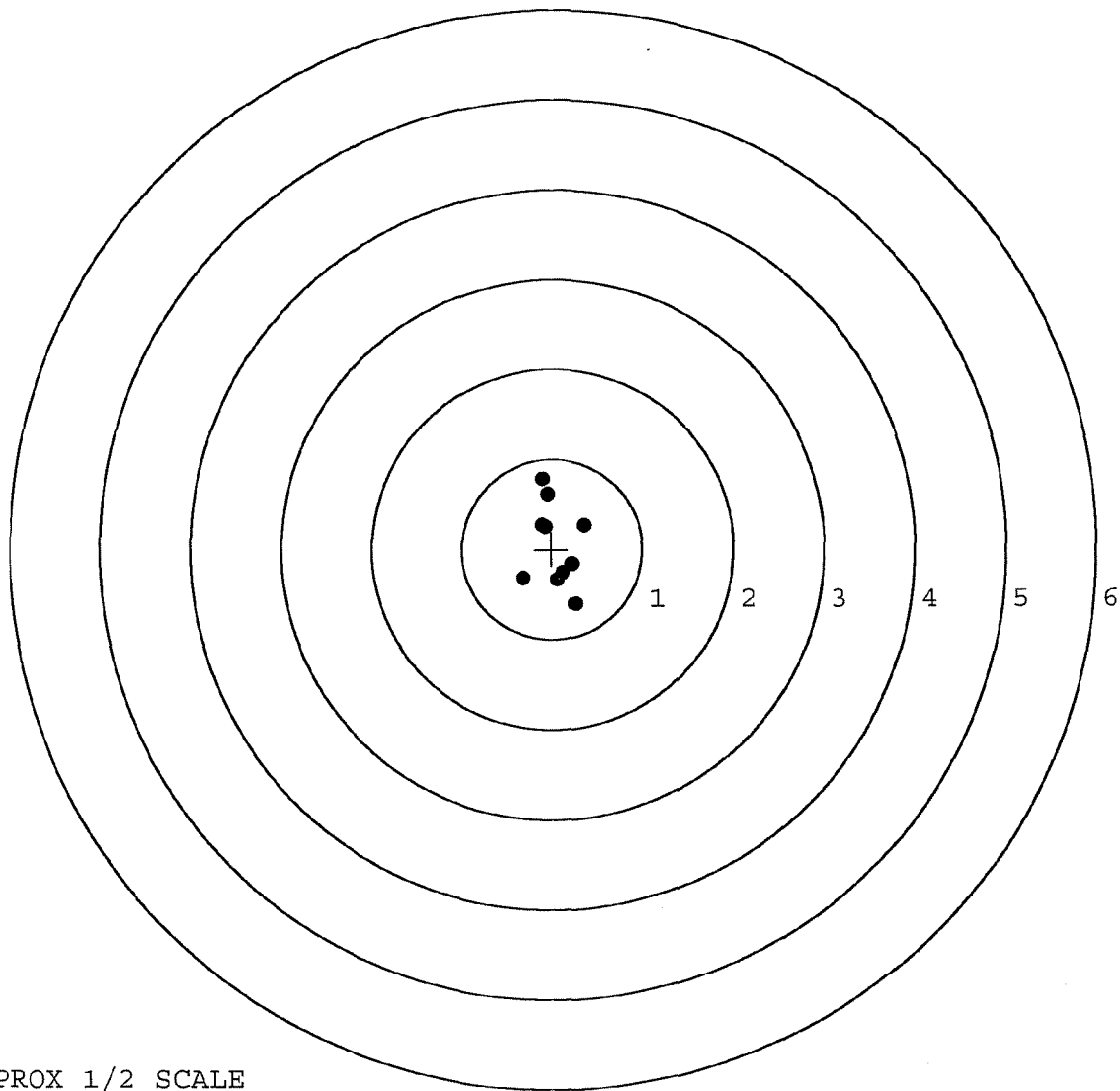


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6611613. 0
 TARGET NUMBER: 3
 FILE DATE: 12/21/2001
 FILE TIME: 02:31

X CENTROID: 0.037
 Y CENTROID: 0.044
 POA TO CENTROID: 0.057
 HORZ SPREAD: 0.670
 VERT SPREAD: 1.385
 GROUP SPREAD: 1.433
 MIN RADIUS: 0.228
 MAX RADIUS: 0.744
 MEAN RADIUS: 0.439
 # IN 1 IN DIAMETER: 6
 # IN 2 IN DIAMETER: 10
 # in 3 IN DIAMETER: 10

POINT#	X	Y
1:	-0.104	0.774
2:	-0.052	0.608
3:	-0.103	0.263
4:	0.347	0.263
5:	-0.323	-0.325
6:	0.264	-0.611
7:	0.065	-0.342
8:	0.223	-0.169
9:	0.125	-0.272
10:	-0.068	0.246



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6611613. 0

TARGET NUMBER: 4

FILE DATE: 12/21/2001

FILE TIME: 02:31

X CENTROID: 0.210

Y CENTROID: -0.118

POA TO CENTROID: 0.241

HORZ SPREAD: 1.616

VERT SPREAD: 1.636

GROUP SPREAD: 1.728

MIN RADIUS: 0.322

MAX RADIUS: 0.917

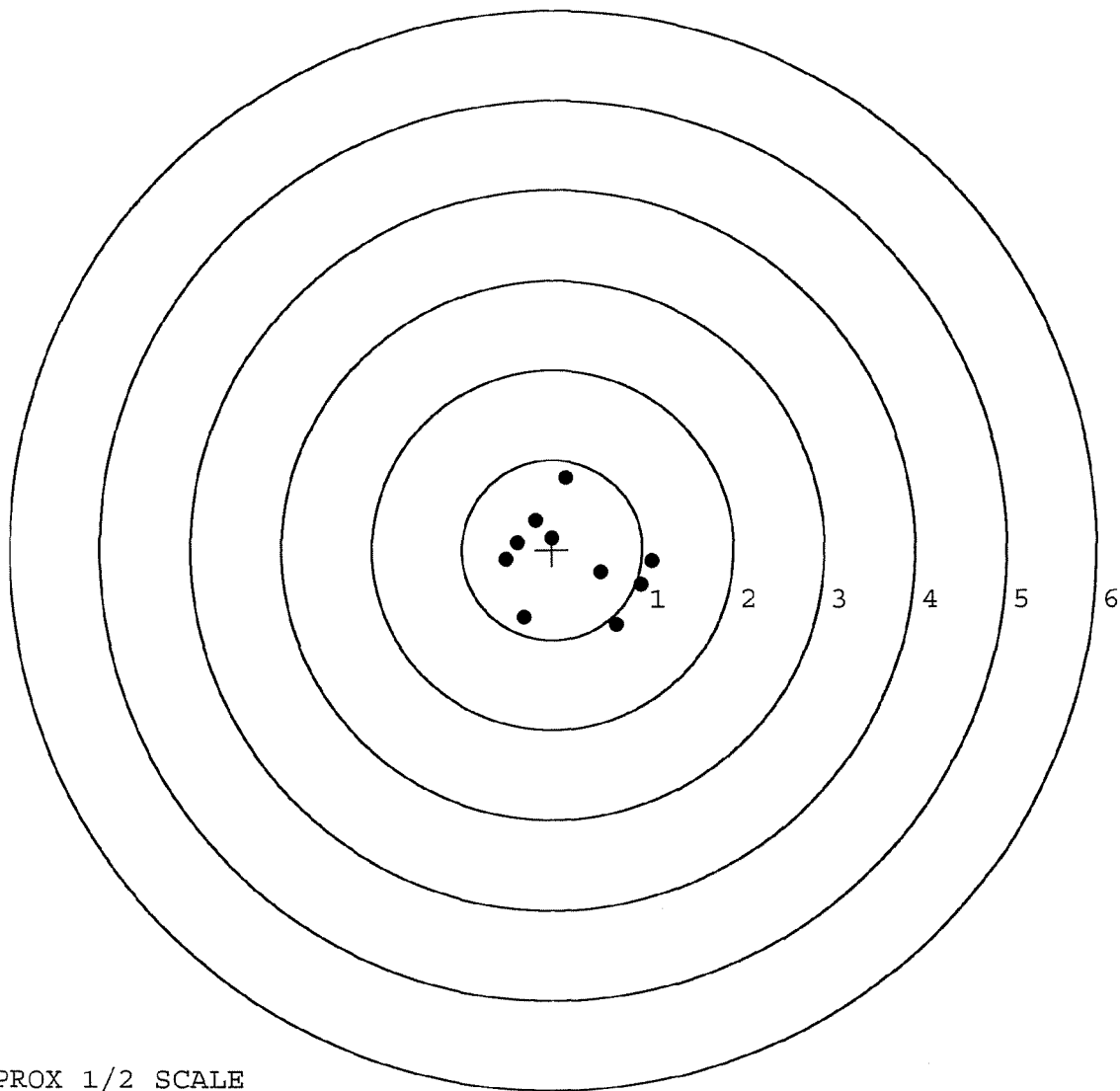
MEAN RADIUS: 0.696

IN 1 IN DIAMETER: 2

IN 2 IN DIAMETER: 10

in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.158	0.798
2:	-0.003	0.123
3:	-0.191	0.322
4:	-0.380	0.075
5:	-0.513	-0.116
6:	-0.314	-0.755
7:	0.713	-0.838
8:	0.986	-0.397
9:	1.103	-0.138
10:	0.542	-0.254

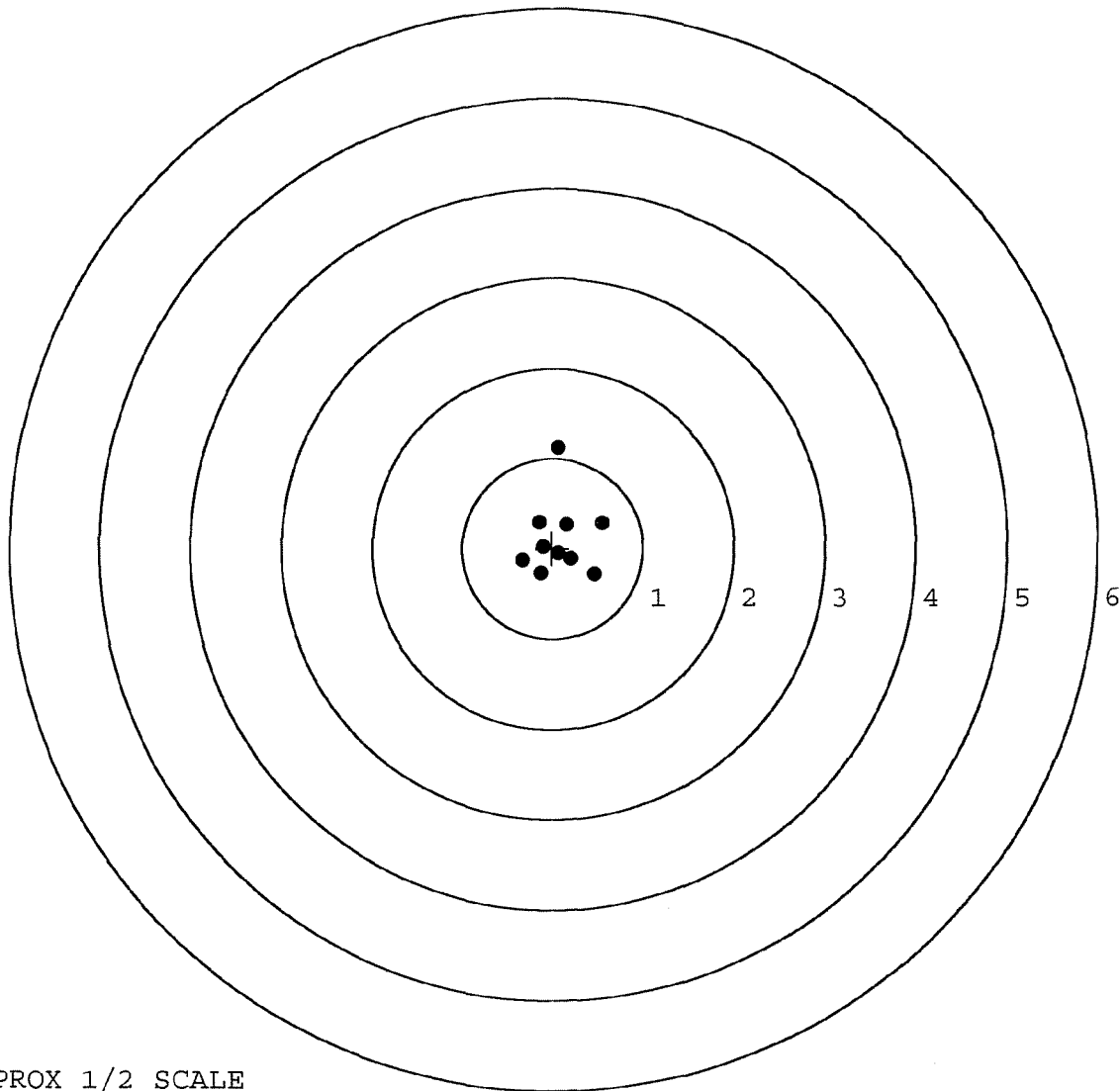


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6611613. __0
 TARGET NUMBER: 5
 FILE DATE: 12/21/2001
 FILE TIME: 02:31

X CENTROID: 0.081
 Y CENTROID: 0.108
 POA TO CENTROID: 0.135
 HORZ SPREAD: 0.876
 VERT SPREAD: 1.406
 GROUP SPREAD: 1.461
 MIN RADIUS: 0.165
 MAX RADIUS: 1.008
 MEAN RADIUS: 0.409
 # IN 1 IN DIAMETER: 8
 # IN 2 IN DIAMETER: 9
 # in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.071	1.116
2:	0.549	0.284
3:	0.468	-0.290
4:	-0.327	-0.138
5:	-0.131	-0.283
6:	0.213	-0.122
7:	0.156	0.262
8:	-0.153	0.290
9:	-0.106	0.016
10:	0.073	-0.057



TARGET APPROX 1/2 SCALE

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

R & E NUMBER 37087			
SERIAL NUMBER C6611613			
LOG-IN DATE 12-5-01			
INSPECT AND VERIFY:			
OPERATION #	OPERATION NAME	DATE	INITIAL
550	DIS-ASSEMBLE GUN	12-6-01	RTH
560 A	RE-BARREL AT CUSTOM SHOP	12/6/01	BWT
B	DRILL AND TAP	12/6/01	BWT
C	POLISH	12-7-01	XPK
575	ASSEMBLE	12-7-01	RTH
600	PROOF MAGNA - FLUX	12-7-01	RTH
605	CHECK HEADSPACE INSPECTED	12-7-01	RTH
610	DIS-ASSEMBLE GUN DEC 11 2001	12-7-01	RTH
612	MAGNAFLUX OPERATOR JRS		
615	ROLLMARK CALIBER	12-7-01	RTH
618	ROTO-BLAST	12/12	NO
620	APPLY COATINGS	12-20	TA
625 A	FINAL ASSEMBLY	12-21-01	RTH
B	TRIGGER PULL TEST 2.67 / 2.56 / 2.55 / 2.34 / 2.34		1/2/02 B.M
C	SAFETY "ON" FORCE 4.5 4.0 4.0 4.0		1-2-02 OA
D	SAFETY "OFF" FORCE 2.2 2.2 2.2		1-2-02 OA
E	FIRING PIN INDENT .021 .021 .021		1-2-02 OA
640	TARGET	12-21-01	AC
655	FINAL INSPECT	12-31-01	RW
660	PACK	1-2-02	OA
		SHIP DATE	
		QAR INSPECTION DATE	

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# + .50#
3.00# + .75#
4.00# + 1.00#

SERIAL NO C661 1613DATE 12/20/01TESTER D.M.

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.63	2.37		2.30	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.45	2.11		2.21	
PULL #3	2.40	2.19		2.21	
PULL #4	2.20	2.24		2.20	
PULL #5	2.36	2.19		2.23	
TOTAL	12.04	11.10		11.45	
AVG.	2.41	2.22		2.23	

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.13	3.43		
PULL #2	3.02	3.07		
PULL #3	3.19	3.37		
PULL #4	3.35	3.21		
PULL #5	3.36	3.37		
TOTAL	16.05	16.45		
AVG.	3.21	3.29		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.21	4.11		4.22
PULL #2	4.08	4.32		4.12
PULL #3	4.20	4.26		4.03
PULL #4	4.28	4.29		3.81
PULL #5	4.14	4.38		3.88
TOTAL	20.91	21.36		20.06
AVG.	4.18	4.27		4.01

CONTRACT # DAAA21-87-C-0086

GUN SERIAL #

C6611613

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	2 1 91		RW
600	Proof	2 1 91		RW
607	Check Headspace	2 1 91		RW
610	Dis-assemble Gun	2 1 91		RW
612	Magnaflux Barrel Action	2 1 1 91		Ked
	Magnaflux Bolt	2 1 1 91		Ked
615	Rollmark Caliber	2 1 1 91		CS
617	Drill and Tap Sight Holes	2 1 3 91		CB
618	Polish Barrel RAB	2 1 3 91		CB
620	Apply Coatings (Barrel Action)		3-12-91	TS
	Apply Coating (Bolt)			
625	Final Assembly			
	A) Clean inside of Bolt Assembly		3/25/91	WB
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		3/25/91	WB
	C) Inspect Ejector Hole for Chamfer		3/25/91	WB
	D) Oil Firing Pin Ass'y		3/25/91	WB
	E) Adjust Trigger Pull to Min Setting and Stake		4/9/91	JS

op. #	OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	5	5	5			4/9/91	JL
	G) Safety Off Force	3	3	3			4/9/91	JL
	H) Trigger Pull Test & Retainability						4/9/91	JL
	I) Firing Pin Indent	.021	.0215	.0215			4/9/91	JL
	J) Assemble Stock						4/9/91	RW
	K) Assemble Swivel Studs						4/10/91	D/H
	L) Attach Front and Rear Sight Assemblies						4/9/91	RW
	M) Iron Sight Alignment						4/9/91	RW
	N) Detach Front & Rear Sights & place in numbered container						4/9/91	RW
	O) Attach Scope to Rifle						4/9/91	RW
	P) Detach & Attach Scope 20 Times						4/9/91	RW
640	Gallery Target & Test						4-9-91	NF
	A) Time						"	NF
	B) Malfunctions						"	NF
	C) Pierced Primers						"	NF
	D) Optical Clarity of Scope						"	NF
645	Inspect for Live Ammo						4-9-91	NF
655	Final Inspection						4/10/91	D/H
	A) Headspace							
	B) Trigger Pull	2.16	2.18	2.15	2.16	2.15	4/10/91	JL
	C) Function						4/10/91	D/H
660	Pack						6-17-91	NF

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# ± .50#

3.00# ± .75#

4.00# ± 1.00#

SERIAL NO. C6611613

DATE 4/9/91

TESTER JL.

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.25	2.23	2.30	2.16	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.24	2.33	2.28	2.18	
PULL #3	2.21	2.25	2.35	2.15	
PULL #4	2.30	2.27	2.38	2.16	
PULL #5	2.23	2.33	2.37	2.15	
TOTAL					
AVG.					

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.43	3.19		
PULL #2	3.39	3.18		
PULL #3	3.39	3.15		
PULL #4	3.47	3.13		
PULL #5	3.43	3.20		
TOTAL				
AVG.				

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.32	4.44		4.41
PULL #2	4.45	4.37		4.36
PULL #3	4.46	4.41		4.35
PULL #4	4.44	4.37		4.43
PULL #5	4.45	4.40		4.29
TOTAL				
AVG.				

 		VERY IMPORTANT: Instruction Book enclosed to assure safe use of this firearm.
MODEL 700TM H24		SERIAL NO. C6611613
MADE IN ILION, N.Y. U.S.A. Reg. U.S. Pat & Tm. Off, Marca Registrada Marque Deposee.		ORDER NO. 5716
 5716 C6611613		

UPC



0 47700 25716 7

MOD. _____ GA. CAL. _____ GUN # 1613

# TEST	DATE	MALFUNCTION/DEFECT	ASSEM. #
	1st		
<i>V</i>	<i>4/9</i>	<i>Last Rd. in Mag. SBC</i>	<i>Rw</i>
	2nd		
	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		

MOD. _____ GA. _____ GUN # 1613
 CAL. _____

# TEST	DATE	MALFUNCTION/DEFECT	ASSEM. #
N	1st	Last Rd. in Mag. SBC	Rw
	4/9		
	2nd		
	3rd		
	4th		
		FUNCTION	RD 6654 Rev 1

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6611613
9 Apr 1991

CENTROIDAL DISTANCES

0 TO	1	.255691
1 TO	2	.588986
1 TO	3	.293471
1 TO	4	.19642
1 TO	5	.317355

U₂ <----POA

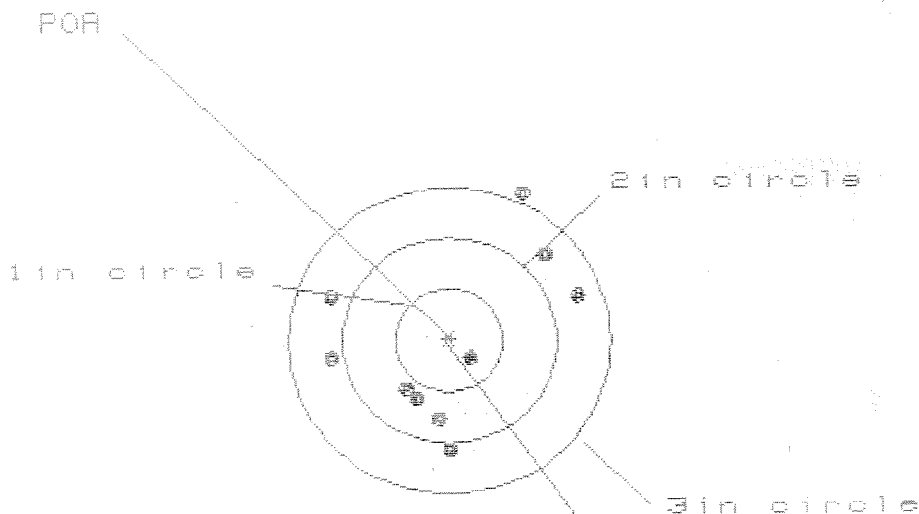
THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .0552
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .0862
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .10236
THE AMR FOR THIS RIFLE IS: .8434

9 Apr 1991

FILE:/PATTERNING/CENTERFIRE_PATT/06611613

CENTERFIRE PATTERNS

1



OF SHOTS- 10

IN CIR

1in = 1

2in = 4

3in = 9

HS= 2.279

VS= 2.457

GS= 2.542

CENTROID #

PATTERN #

	10	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.160	1.235	1.138
MINIMUM X	-1.119	-1.044	-0.890
MAXIMUM Y	1.444	1.000	1.077
MINIMUM Y	-1.013	-0.853	-0.776
CENTROID X	-0.197	-0.272	-0.426
CENTROID Y	0.163	0.003	-0.074
POA TO CENTROID in.	0.256	0.272	0.433
MIN RADIUS	0.305	0.311	0.294
MEAN RADIUS	0.972	0.854	0.750
MAX RADIUS	1.594	1.403	1.567
HORIZONTAL SPREAD	2.279	2.279	2.028
VERTICAL SPREAD	2.457	1.853	1.853
EXTREME SPREAD	2.542	2.369	2.275
NUMBER IN ONE INCH CIRCLE =	1		
NUMBER IN TWO INCH CIRCLE =	4		
NUMBER IN THREE INCH CIRCLE =	9		

9 Apr 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6611613

CENTERFIRE PATTERNS

2

POR

1in circle

2in circle

3in circle

OF SHOTS - 10

IN CIR

1in = 3

2in = 7

3in = 8

HS = 3.560

VS = 1.386

GS = 3.816

CENTROID #

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.661	1.450	.962
MINIMUM X	-1.899	-.975	-.793
MAXIMUM Y	.669	.591	.593
MINIMUM Y	-.717	-.795	-.721
CENTROID X	.379	.590	.408
CENTROID Y	.040	.118	.044
POR TO CENTROID in.	.381	.601	.411
MIN RADIUS	.166	.263	.171
MEAN RADIUS	.861	.731	.600
MAX RADIUS	2.026	1.566	1.072
HORIZONTAL SPREAD	3.560	2.425	1.755
VERTICAL SPREAD	1.386	1.386	1.314
EXTREME SPREAD	3.816	2.793	1.896
NUMBER IN ONE INCH CIRCLE =		3	
NUMBER IN TWO INCH CIRCLE =		7	
NUMBER IN THREE INCH CIRCLE =		8	

9 Apr 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6611613

CENTERFIRE PATTERNS

3

POA

1in circle

2in circle

3in circle

CENTROID *

OF SHOTS- 10

IN CIR

1in = 3

2in = 8

3in = 9

HS= 2.875

VS= 1.229

GS= 3.127

PATTERN #

3

SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.412	1.250	.522
MINIMUM X	:	-1.463	-1.004	-.840
MAXIMUM Y	:	.737	.635	.584
MINIMUM Y	:	-.492	-.410	-.460
CENTROID X	:	.008	.170	.014
CENTROID Y	:	-.047	-.129	-.078
POA TO CENTROID in.	:	.048	.214	.079
MIN RADIUS	:	.254	.134	.226
MEAN RADIUS	:	.736	.602	.522
MAX RADIUS	:	1.638	1.315	.853
HORIZONTAL SPREAD	:	2.875	2.254	1.370
VERTICAL SPREAD	:	1.229	1.045	1.044
EXTREME SPREAD	:	3.127	2.284	1.388
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		8	
NUMBER IN THREE INCH CIRCLE	=		9	

9 Apr 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6611613

CENTERFIRE PATTERNS

4

POA

1in circle

2in circle

3in circle

OF SHOTS = 10

IN CIR

1in = 4

2in = 8

3in = 10

HE = 1.920

VS = 1.599

GS = 2.201

CENTROID *

PATTERN #

4

SHOTS (BEST OF)

10

9

8

MAXIMUM X

1.004

.611

.511

MINIMUM X

-.916

-.805

-.754

MAXIMUM Y

.813

.897

.671

MINIMUM Y

-.786

-.702

-.590

CENTROID X

-.012

-.123

-.023

CENTROID Y

.229

.145

.033

POA TO CENTROID in.

.230

.191

.040

MIN RADIUS

.352

.382

.242

MEAN RADIUS

.737

.683

.585

MAX RADIUS

1.256

1.205

.843

HORIZONTAL SPREAD

1.920

1.416

1.265

VERTICAL SPREAD

1.599

1.599

1.261

EXTREME SPREAD

2.201

1.863

1.645

NUMBER IN ONE INCH CIRCLE =

4

NUMBER IN TWO INCH CIRCLE =

8

NUMBER IN THREE INCH CIRCLE =

10

9 Apr 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6811813

CENTERFIRE PATTERNS

5

POB

1in circle

2in circle

3in circle

OF SHOTS= 10

IN CIR

1in = 1

2in = 7

3in = 10

HS= 2.138

VS= 2.493

GS= 2.670

CENTROID #

PATTERN #

PATTERN #	10	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.189	1.145	1.210
MINIMUM X	-.949	-.993	-.928
MAXIMUM Y	1.202	1.059	.673
MINIMUM Y	-1.291	-.753	-.621
CENTROID X	.098	.142	.077
CENTROID Y	.046	.189	.057
POB TO CENTROID in.	.108	.236	.096
MIN RADIUS	.389	.345	.366
MEAN RADIUS	.911	.847	.802
MAX RADIUS	1.350	1.178	1.216
HORIZONTAL SPREAD	2.138	2.138	2.138
VERTICAL SPREAD	2.493	1.812	1.294
EXTREME SPREAD	2.670	2.172	2.172
NUMBER IN ONE INCH CIRCLE	= 1		
NUMBER IN TWO INCH CIRCLE	= 7		
NUMBER IN THREE INCH CIRCLE	= 10		