

C6522262

MODEL 700™ M24

Model **SMS**™

Action

Barrel Length

Capacity

Order No. **5716**

*Includes 1 in chamber.



TEST INIT. ACTION TO CORRECT		ASSEM. #
PROOF	9/12/90 ≠	KT
TEST		
TGT		
PROOF	9/12/90 OK	KT
TEST		
TGT		
PROOF	ENGINEER	
TEST		
TGT		
PROOF	ENGINEER	
TEST		
TGT		

MOD. _____		GA. CAL. _____	GUN # _____
# TEST	DATE	MALFUNCTION/DEFECT	ASSEM. #
	1st	Mag box loads here 5th Rb	KS (R.W.)
	2nd	chg'd STK FL. PLATE	9/10/90 KS
	3rd		
	4th		

FUNCTION _____ RD 6654 Rev 1

M-24

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C 6522262

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock		8/1/90	KS
600	Proof		8/1/90	KS
607	Check Headspace		8/1/90	KS
610	Dis-assemble Gun		8/1/90	KS
612	Magnaflux Barrel Action		8/7/90	KR
	Magnaflux Bolt		8/7/90	KR
615	Rollmark Caliber		8/7/90	LS
617	Drill and Tap Sight Holes		8/10/90	LB
618	Polish Barrel <i>LB</i>		8/14/90	WB
620	Apply Coatings (Barrel Action)		8-22-90	JA
	Apply Coating (Bolt)			
625	Final Assembly			
	A) Clean inside of Bolt Assembly			
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head			
	C) Inspect Ejector Hole for Chamfer			
	D) Oil Firing Pin Ass'y			
	E) Adjust Trigger Pull to Min Setting and Stake		9/7/90	WB

BARBER - M24 0002056

op. #	OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	5	5	5			9/7/90	WB
	G) Safety Off Force	2 3/4	2 3/4	2 3/4			9/7/90	WB
	H) Trigger Pull Test & Retainability						9/7/90	WB
	I) Firing Pin Indent	.023	.0225	.0225			9/7/90	WB
	J) Assemble Stock						9/7/90	KS
	K) Assemble Swivel Studs						9/15/90	JS
	L) Attach Front and Rear Sight Assemblies						9/7/90	KS
	M) Iron Sight Alignment						9/7/90	KS
	N) Detach Front & Rear Sights & place in numbered container						9/7/90	KS
	O) Attach Scope to Rifle						9/7/90	KS
	P) Detach & Attach Scope 20 Times						9/7/90	KS
640	Gallery Target & Test						9-10-90	AC
	A) Time						9-10-90	AC
	B) Malfunctions						9-10-90	AC
	C) Pierced Primers						9-10-90	AC
	D) Optical Clarity of Scope						9-10-90	AC
645	Inspect for Live Ammo						9-10-90	AC
655	Final Inspection							
	A) Headspace						9/15/90	JS
	B) Trigger Pull	2.41	2.26	2.23	2.15	2.16	9-14-90	JS
	C) Function						9/15/90	JS
660	Pack						9/19/90	AF

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# ± .50#

3.00# ± .75#

4.00# ± 1.00#

SERIAL NO. C6522262

DATE 9/7/90

TESTER WB

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.39	2.32	2.38	2.41	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.25	2.24	2.39	2.26	
PULL #3	2.23	2.27	2.47	2.23	
PULL #4	2.30	2.25	2.46	2.15	
PULL #5	2.20	2.23	2.48	2.16	
TOTAL	11.37	11.31	12.18	11.21	
AVG.	2.27	2.26	2.43	2.242	

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.20	3.30		
PULL #2	3.20	3.27		
PULL #3	3.24	3.29		
PULL #4	3.23	3.23		
PULL #5	3.27	3.27		
TOTAL	16.14	16.36		
AVG.	3.23	3.27		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.04	4.07		4.12
PULL #2	4.05	4.09		4.12
PULL #3	4.08	4.10		4.18
PULL #4	4.09	4.06		4.22
PULL #5	4.09	4.10		4.25
TOTAL	20.35	20.42		20.89
AVG.	4.07	4.08		4.14

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # 06522262
13 Sep 1990

CENTROIDAL DISTANCES

0 TO	1	.0657343
1 TO	2	.310026
1 TO	3	.104957
1 TO	4	.175824
1 TO	5	.269186

24 ⁵ <----POA

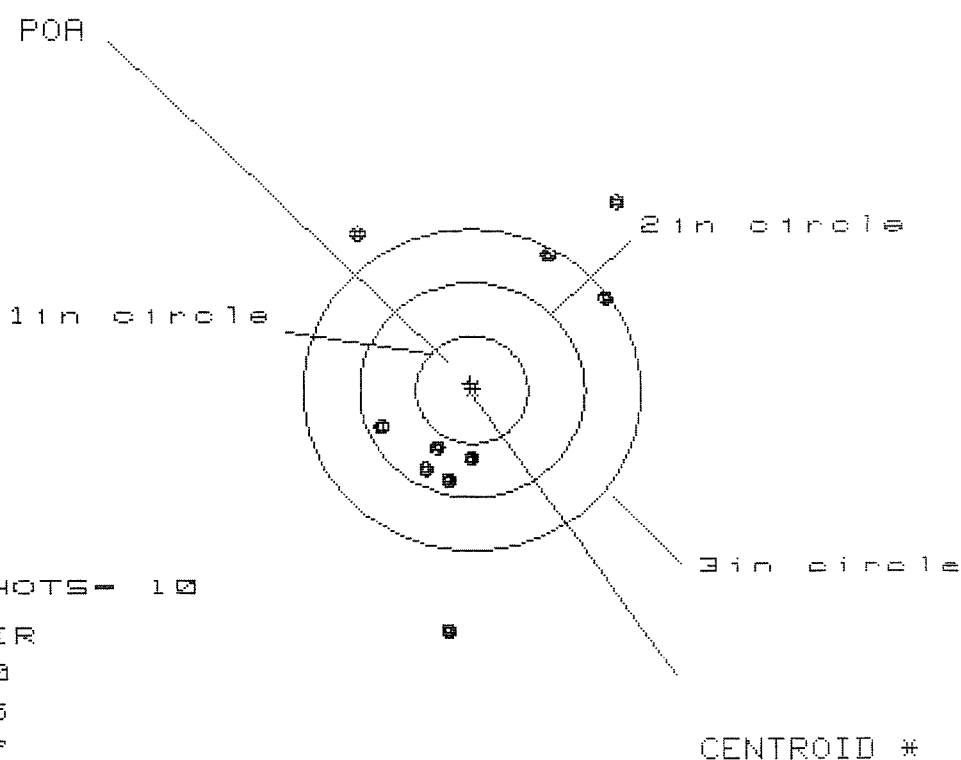
THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.0724
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .0396
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .0825222
THE AMR FOR THIS RIFLE IS: 1.114

12 Sep 1998

FILE:/PATTERNING/CENTERFIRE_PATT/06522262.1

CENTERFIRE PATTERNS

1



OF SHOTS- 10

IN CIR

1in = 0

2in = 5

3in = 7

HS= 2.281

VS= 4.005

GS= 4.250

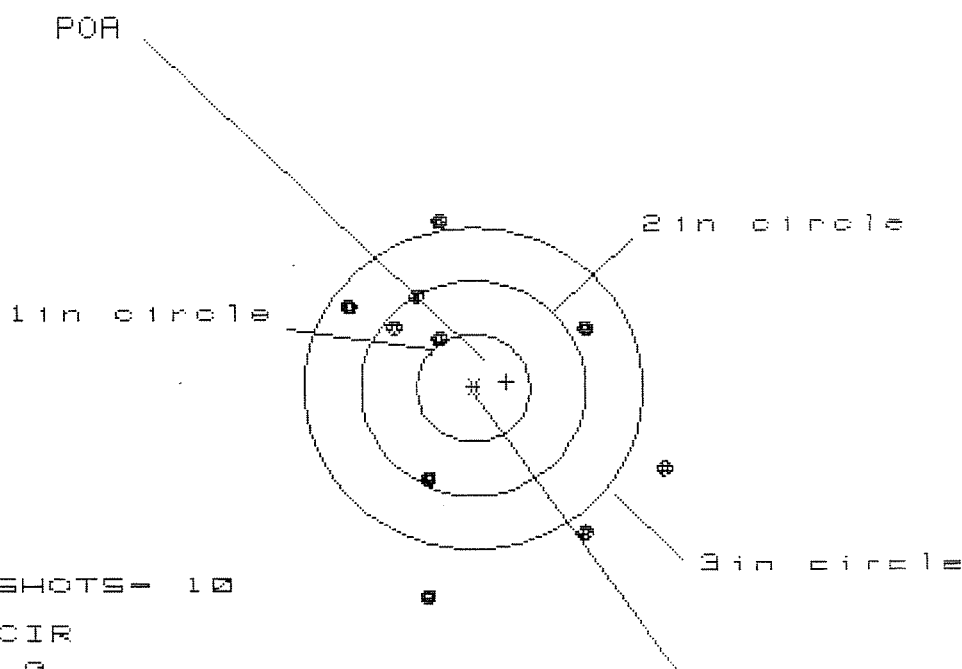
PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.239	1.219	1.300
MINIMUM X	-1.042	-1.062	-0.909
MAXIMUM Y	1.741	1.489	1.370
MINIMUM Y	-2.264	-1.072	-0.885
CENTROID X	.015	.036	-.116
CENTROID Y	-.064	.188	.001
POA TO CENTROID in.	.066	.191	.117
MIN RADIUS	.615	.848	.620
MEAN RADIUS	1.295	1.222	1.065
MAX RADIUS	2.271	1.925	1.644
HORIZONTAL SPREAD	2.281	2.281	2.210
VERTICAL SPREAD	4.005	2.561	2.255
EXTREME SPREAD	4.250	3.023	2.412
NUMBER IN ONE INCH CIRCLE =	0		
NUMBER IN TWO INCH CIRCLE =	5		
NUMBER IN THREE INCH CIRCLE =	7		

12 Sep 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6522262.1

CENTERFIRE PATTERNS

2



OF SHOTS= 10

IN CIR

1 in = 0

2 in = 4

3 in = 6

HS= 2.813

VS= 3.536

GS= 3.538

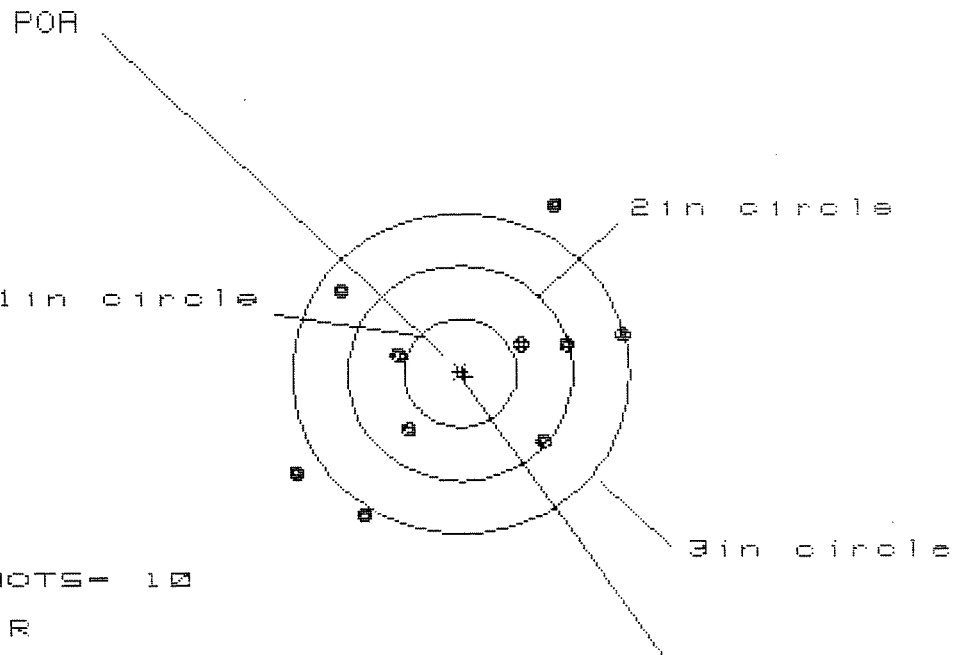
CENTROID #

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.789	1.666	1.171
MINIMUM X	:	-1.104	-1.147	-.939
MAXIMUM Y	:	1.595	1.379	1.263
MINIMUM Y	:	-1.941	-1.528	-1.644
CENTROID X	:	-.295	-.252	-.461
CENTROID Y	:	-.060	.156	.272
POA TO CENTROID in.	:	.301	.297	.535
MIN RADIUS	:	.610	.481	.247
MEAN RADIUS	:	1.294	1.181	1.010
MAX RADIUS	:	1.979	1.906	1.988
HORIZONTAL SPREAD	:	2.813	2.813	2.109
VERTICAL SPREAD	:	3.536	2.907	2.907
EXTREME SPREAD	:	3.538	3.171	3.156
NUMBER IN ONE INCH CIRCLE	=		0	
NUMBER IN TWO INCH CIRCLE	=		4	
NUMBER IN THREE INCH CIRCLE	=		6	

12 Sep 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C8522262.1

CENTERFIRE PATTERNS # 3



OF SHOTS - 10

IN CIR

1 in = 0

2 in = 5

3 in = 7

HS= 2.830

VS= 2.926

GS= 3.399

CENTROID *

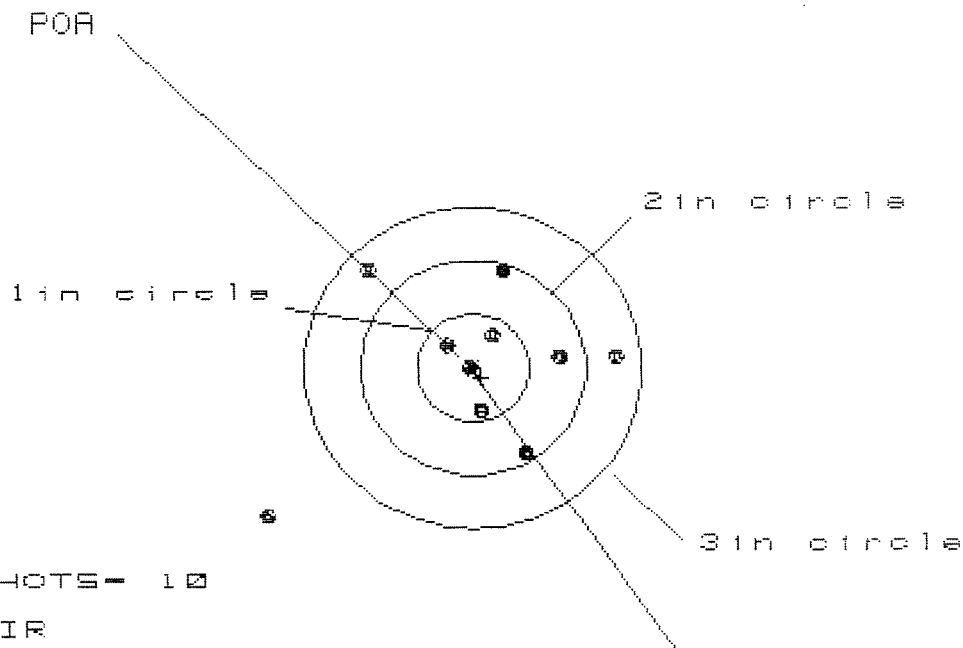
PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.393	1.491	1.323
MINIMUM X	:	-1.437	-1.339	-1.144
MAXIMUM Y	:	1.551	.956	.867
MINIMUM Y	:	-1.375	-1.203	-1.292
CENTROID X	:	-.039	-.137	.031
CENTROID Y	:	.026	-.146	-.057
POA TO CENTROID in.	:	.047	.200	.065
MIN RADIUS	:	.568	.533	.554
MEAN RADIUS	:	1.168	1.090	1.021
MAX RADIUS	:	1.783	1.592	1.586
HORIZONTAL SPREAD	:	2.830	2.830	2.467
VERTICAL SPREAD	:	2.926	2.159	2.159
EXTREME SPREAD	:	3.399	3.101	2.852
NUMBER IN ONE INCH CIRCLE	=		0	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		7	

12 Sep 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C8522262.1

CENTERFIRE PATTERNS

4



OF SHOTS - 10

IN CIR

1in = 4

2in = 7

3in = 9

HS= 3.139

VS= 2.329

GS= 3.456

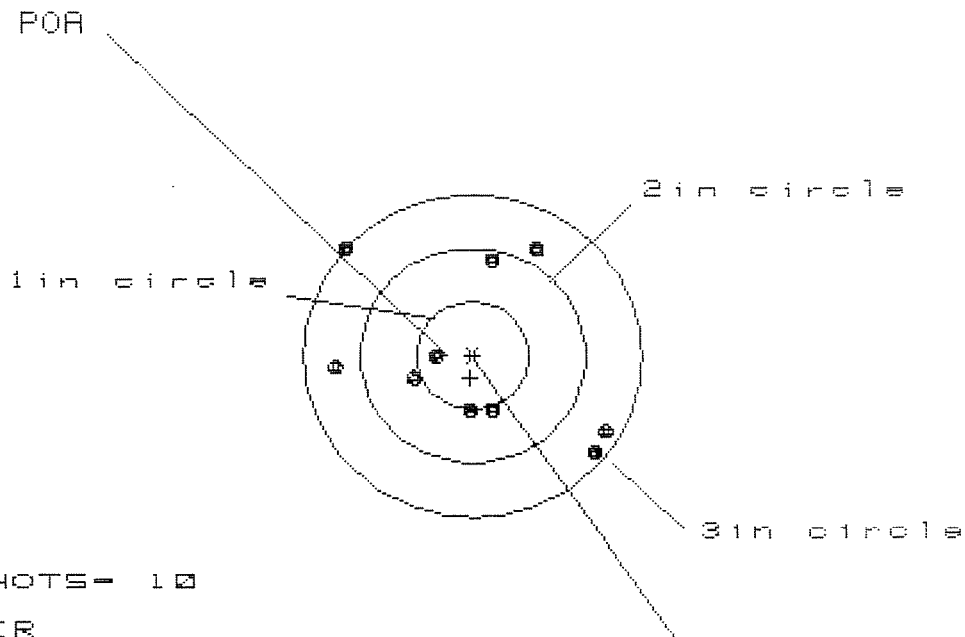
CENTROID #

PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.281	1.074	.927
MINIMUM X	:	-1.858	-1.176	-.537
MAXIMUM Y	:	.951	.798	.897
MINIMUM Y	:	-1.378	-.982	-.883
CENTROID X	:	-.068	.139	.286
CENTROID Y	:	.091	.244	.145
POA TO CENTROID in.	:	.113	.281	.320
MIN RADIUS	:	.082	.161	.313
MEAN RADIUS	:	.883	.706	.625
MAX RADIUS	:	2.313	1.416	.927
HORIZONTAL SPREAD	:	3.139	2.250	1.464
VERTICAL SPREAD	:	2.329	1.780	1.780
EXTREME SPREAD	:	3.456	2.415	1.803
NUMBER IN ONE INCH CIRCLE	=		4	
NUMBER IN TWO INCH CIRCLE	=		7	
NUMBER IN THREE INCH CIRCLE	=		9	

12 Sep 1998

FILE:/PATTERNING/CENTERFIRE_PATT/06522262.1

CENTERFIRE PATTERNS # 5



OF SHOTS- 10

IN CIR

1 in = 3

2 in = 5

3 in = 9

HS= 2.344

VS= 1.936

GS= 2.926

CENTROID *

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.169	1.043	1.161
MINIMUM X	:	-1.175	-1.301	-1.183
MAXIMUM Y	:	.992	1.101	.997
MINIMUM Y	:	-.944	-.835	-.650
CENTROID X	:	.025	.151	.033
CENTROID Y	:	.205	.096	.200
POA TO CENTROID in.	:	.207	.179	.203
MIN RADIUS	:	.299	.351	.308
MEAN RADIUS	:	.929	.860	.796
MAX RADIUS	:	1.501	1.301	1.330
HORIZONTAL SPREAD	:	2.344	2.344	2.344
VERTICAL SPREAD	:	1.936	1.936	1.647
EXTREME SPREAD	:	2.926	2.408	2.408
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		9	

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6522262
10 Sep 1990

CENTROIDAL DISTANCES

0 TO 1	.184708
1 TO 2	.676471
1 TO 3	.3159
1 TO 4	.441131
1 TO 5	.336363

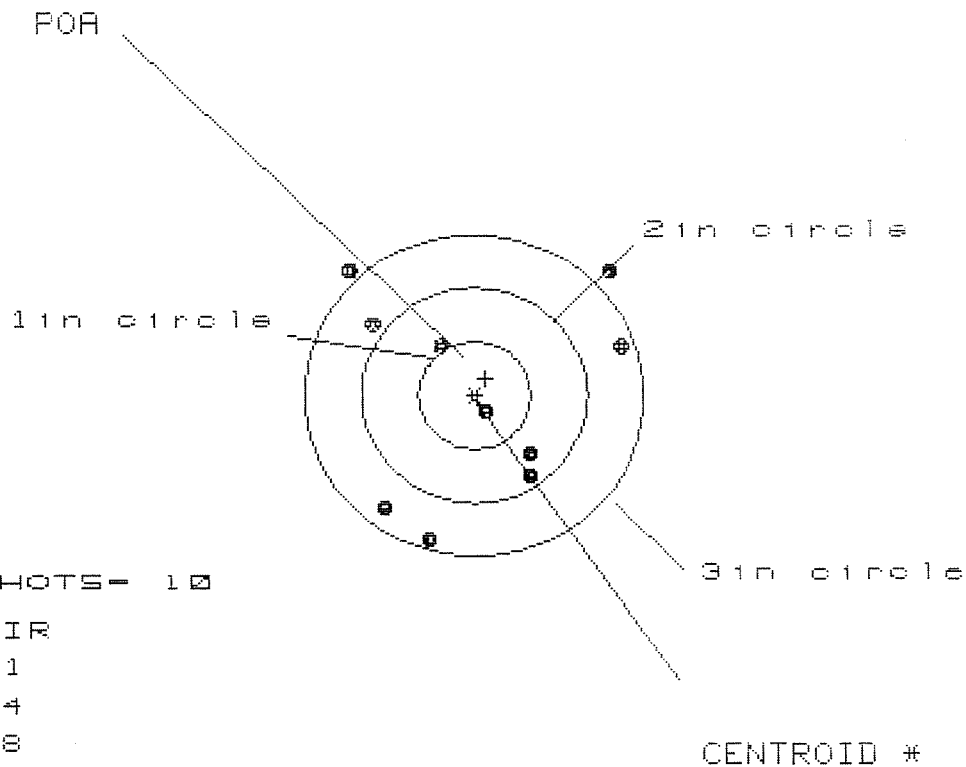
$\frac{2}{25}$ <----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.3978
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.1454
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .42354
THE AMR FOR THIS RIFLE IS: .9654

18 Sep 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6522262

CENTERFIRE PATTERNS # 1



OF SHOTS- 10

IN CIR

1in = 1

2in = 4

3in = 8

HS= 2.320

VS= 2.560

GS= 2.963

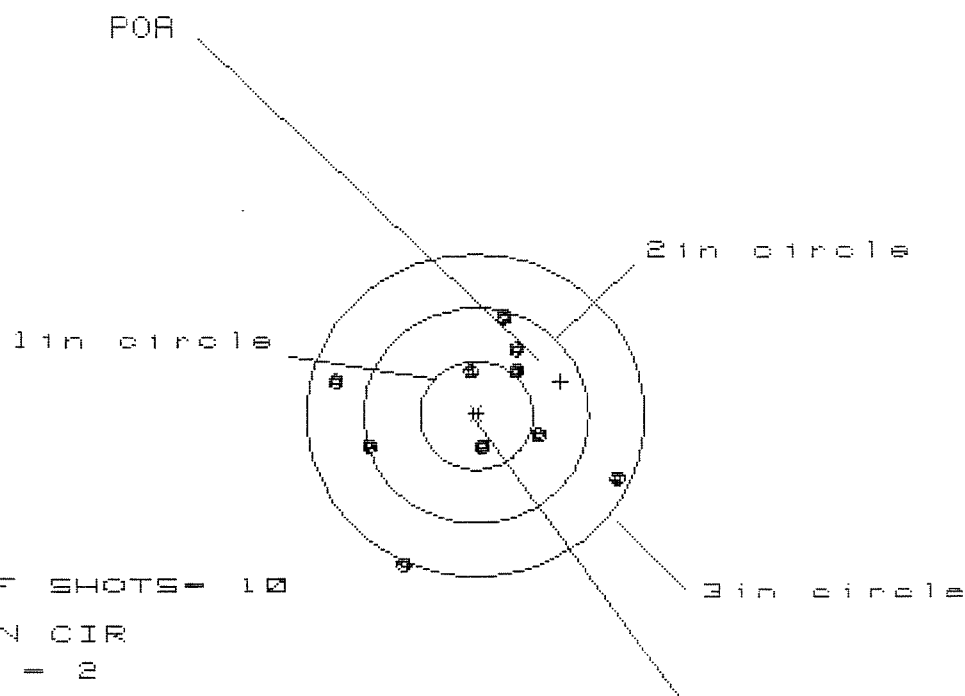
PATTERN #	:	1	9	8
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.254	1.382	1.265
MINIMUM X	:	-1.066	-.938	-.929
MAXIMUM Y	:	1.207	1.337	.942
MINIMUM Y	:	-1.353	-1.223	-1.056
CENTROID X	:	-.094	-.222	-.105
CENTROID Y	:	-.159	-.289	-.456
POA TO CENTROID in.	:	.185	.364	.468
MIN RADIUS	:	.139	.216	.212
MEAN RADIUS	:	1.078	1.010	.905
MAX RADIUS	:	1.641	1.633	1.469
HORIZONTAL SPREAD	:	2.320	2.320	2.194
VERTICAL SPREAD	:	2.560	2.560	1.998
EXTREME SPREAD	:	2.963	2.649	2.541
NUMBER IN ONE INCH CIRCLE	=	1		
NUMBER IN TWO INCH CIRCLE	=	4		
NUMBER IN THREE INCH CIRCLE	=	8		

18 Sep 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C8522262

CENTERFIRE PATTERNS

2



OF SHOTS= 10

IN CIR

1in = 2

2in = 7

3in = 10

HS= 2.453

VS= 2.245

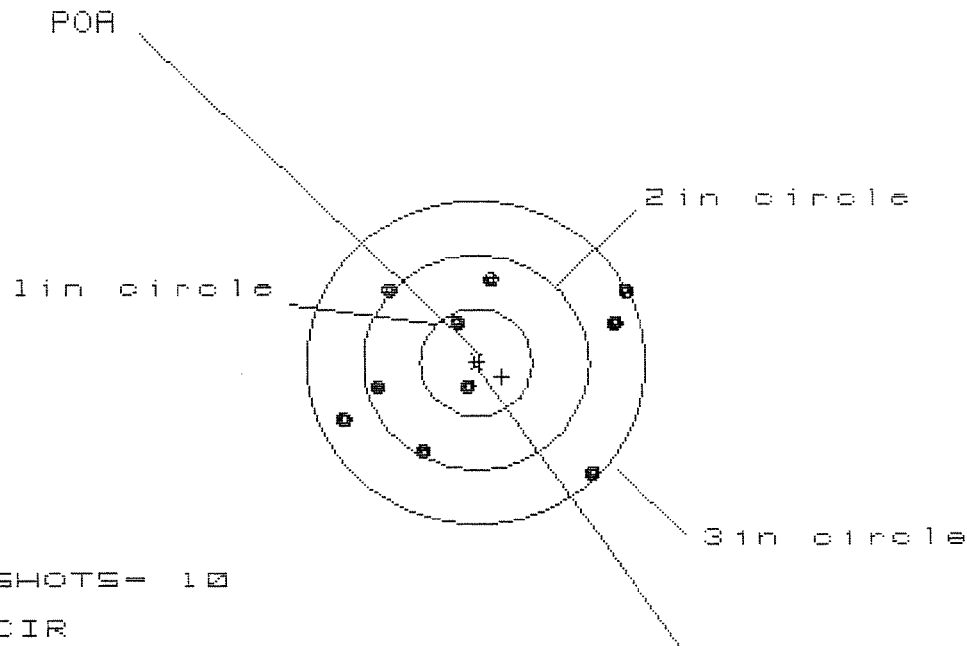
GS= 2.622

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.252	1.185	.596
MINIMUM X	:	-1.201	-1.268	-1.119
MAXIMUM Y	:	.879	.727	.638
MINIMUM Y	:	-1.366	-.714	-.517
CENTROID X	:	-.752	-.685	-.834
CENTROID Y	:	-.316	-.164	-.075
POA TO CENTROID in.	:	.816	.705	.837
MIN RADIUS	:	.290	.280	.161
MEAN RADIUS	:	.842	.736	.655
MAX RADIUS	:	1.492	1.384	1.126
HORIZONTAL SPREAD	:	2.453	2.453	1.715
VERTICAL SPREAD	:	2.245	1.441	1.155
EXTREME SPREAD	:	2.622	2.622	1.797
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		7	
NUMBER IN THREE INCH CIRCLE	=		10	

18 Sep 1998

FILE:/PATTERNING/CENTERFIRE_PATT/06522262

CENTERFIRE PATTERNS # 3



OF SHOTS = 10

IN CIR

1in = 2

2in = 5

3in = 10

HS = 2.492

VS = 1.764

GS = 2.756

CENTROID #

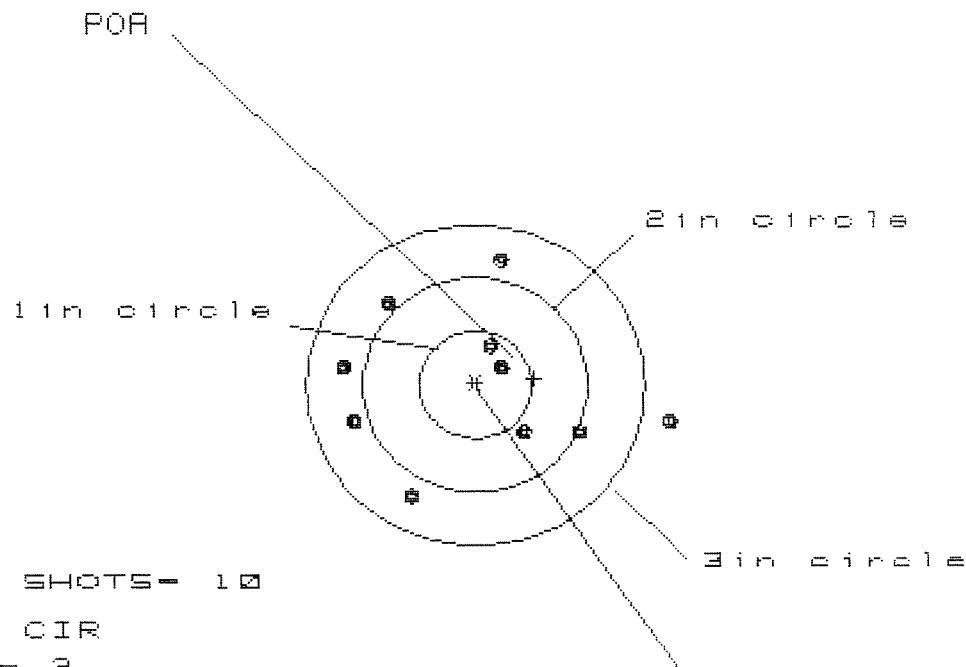
PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.279	1.398	1.494
MINIMUM X	:	-1.213	-1.094	-.920
MAXIMUM Y	:	.757	.645	.710
MINIMUM Y	:	-1.007	-.963	-.898
CENTROID X	:	-.226	-.345	-.519
CENTROID Y	:	.128	.240	.175
POA TO CENTROID in.	:	.260	.420	.548
MIN RADIUS	:	.290	.294	.360
MEAN RADIUS	:	.990	.911	.816
MAX RADIUS	:	1.467	1.490	1.536
HORIZONTAL SPREAD	:	2.492	2.492	2.414
VERTICAL SPREAD	:	1.764	1.608	1.608
EXTREME SPREAD	:	2.756	2.756	2.595
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		10	

18 Sep 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C8522262

CENTERFIRE PATTERNS

4



OF SHOTS- 10

IN CIR

1 in = 2

2 in = 3

3 in = 9

HS= 2.918

VS= 2.184

GS= 2.949

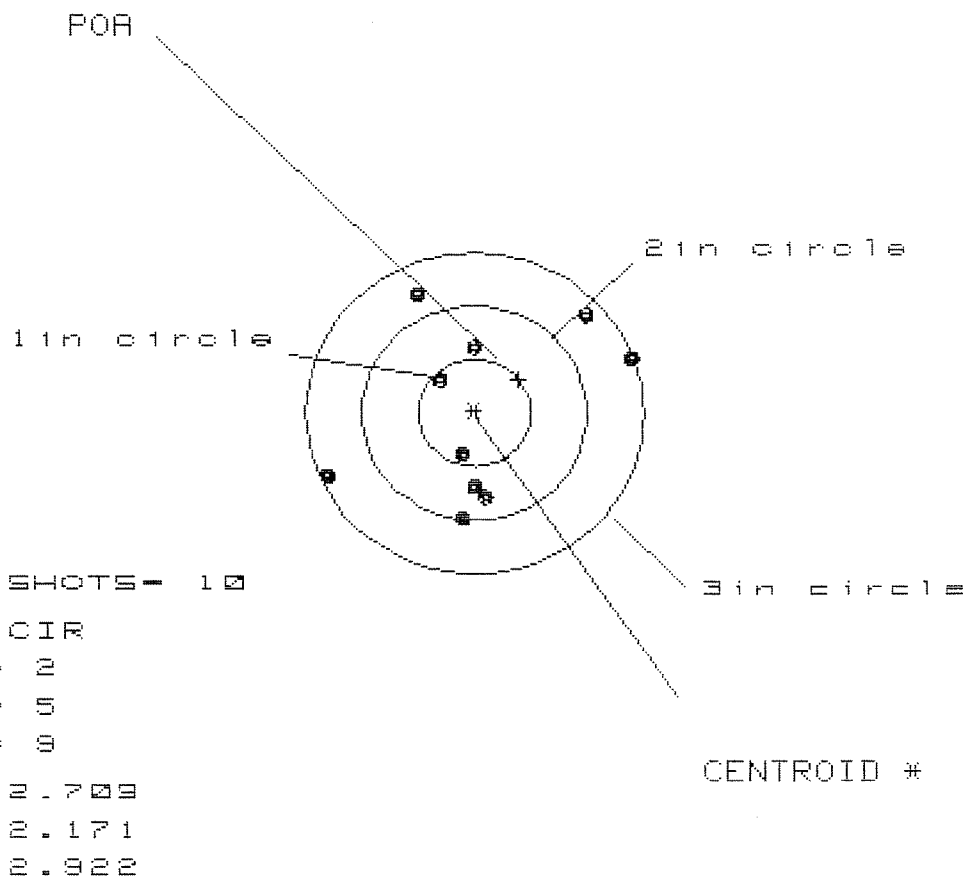
PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.730	1.107	1.159
MINIMUM X	:	-1.188	-.996	-.944
MAXIMUM Y	:	1.179	1.147	.827
MINIMUM Y	:	-1.004	-1.037	-.894
CENTROID X	:	-.525	-.717	-.769
CENTROID Y	:	-.065	-.032	-.175
POA TO CENTROID in.	:	.529	.718	.789
MIN RADIUS	:	.245	.416	.512
MEAN RADIUS	:	.978	.896	.858
MAX RADIUS	:	1.755	1.219	1.209
HORIZONTAL SPREAD	:	2.918	2.103	2.103
VERTICAL SPREAD	:	2.184	2.184	1.721
EXTREME SPREAD	:	2.949	2.339	2.184
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		3	
NUMBER IN THREE INCH CIRCLE	=		9	

18 Sep 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6522262

CENTERFIRE PATTERNS

5



PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.406	1.134	.991
MINIMUM X	:	-1.303	-1.147	-.508
MAXIMUM Y	:	1.161	1.219	1.156
MINIMUM Y	:	-1.010	-.952	-1.015
CENTROID X	:	-.392	-.548	-.405
CENTROID Y	:	-.315	-.373	-.310
POA TO CENTROID in.	:	.503	.663	.510
MIN RADIUS	:	.412	.354	.400
MEAN RADIUS	:	.939	.854	.808
MAX RADIUS	:	1.502	1.477	1.327
HORIZONTAL SPREAD	:	2.709	2.281	1.499
VERTICAL SPREAD	:	2.171	2.171	2.171
EXTREME SPREAD	:	2.922	2.704	2.206
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		9	

Remington
MODEL 700™ H24

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

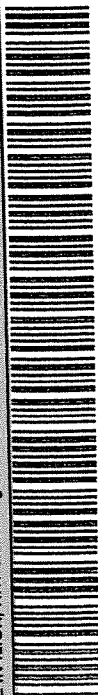
DUPONT
REG. U.S. PAT. & TM. OFF.

SERIAL NO.
C6522262

ORDER NO.
5716

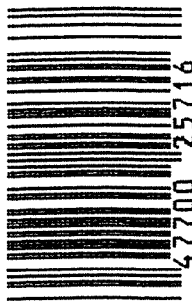
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MADE IN ILION, N.Y. U.S.A. Reg. U.S. Pat. & Tm. Off. Marca Registrada Marque Deposee.



5716 C6522262

UPC



0 47700 25716 7