

C6587703

MODEL 700™ M24

Model **SMS**™

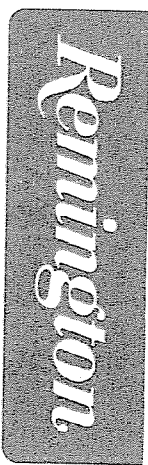
Action

Barrel Length

Capacity

Order No. **5716**

* Includes 1 in chamber.



RECEIVING AND ESTIMATING REPORT

BARBER - M24 0025549

COMMENTS

ORDER
R 94-18375

INITIAL FDC	CUSTOMER ORDER NO. DAAA09-92-C-0834	W/10X SCOPE, M-24 SNIPER, W/DEPLOYMENT KIT ATTN: FRED MARTIN <i>SCOPE 91-0159</i>			
DATE RECEIVED 06/11/94	DATE OPENED 06/11/94	DATE CODE	SERIAL NUMBER C6587703	NEW SERIAL NUMBER	MODEL AND GRADE 700 7.62 NATO
ACCESSORIES SLING STRAP		HARD CASE		SCOPE MNTS	SCOPE BASE

FROM:

SHIP TO:

COMMANDER (W52H09413BH226)
DEFENSE DIST DEPOT ANNISTON
ATTN DDAA-UR BLDG 112
ANNISTON

AL 36201-5025

COMMANDER (W52H09413BH226)
DEFENSE DIST DEPOT ANNISTON
ATTN DDAA-UR BLDG 112
ANNISTON

AL
36201-5025

CUST NO: 098397 C.O.D L

ACCOUNT NUMBER	ACCOUNT NUMBER N/C	WRITE ☐	PROM. DATE	ESTIMATED	VIA FRT
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GUN CONDITION

- ☐ NEW
- ☐ LIGHTLY WORN
- ☐ WORN
- ☐ VERY WORN
- ☐ UNREPAIRABLE
- ☐ MARRED

REPAIR CHARGE

EXCISE

TAX

INSURANCE

UPS

PARCEL POST

TOTAL

CUSTOMER CONCERN	AMMO	FUNCTION	FINISH	ACCURACY	FIT	INSPECT
CYCLE	A1	B1				
TRIGGER GROUP		B2			E1	F1
BOLT ASSY.		B3			E2	F2
BARREL ASSY.		B4		D1	E3	F3
REC. ASSY.		B5		D2	E4	F4
WOOD			C1	D3	E5	F5
METAL			C2			

MAIN FAULT

PARTS

COMMENTS

New Barrel
Trigger Assy
Stock & Firing Pin
Front & Rear Sight Assy

REPAIRMAN	PROOF	CLEAN	TEST	TARGET	PATTERN
GALLERY TESTER	DATE	DATE	DATE	DATE	DATE
			3/23/96	3/23/96	

OFFICE COPY

RD6925 REV. 1/94

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

BARBER - M24 0025549

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# + .50#

3.00# + .75#

4.00# + 1.00#

SERIAL NO. C6587903DATE 3-11-96TESTER DA

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.63	2.74	2.65		MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.66	2.73	2.53		
PULL #3	2.59	2.64	2.60		
PULL #4	2.61	2.66	2.64		
PULL #5	2.50	2.76	2.76		
TOTAL	12.99	13.53	13.18		
AVG.	2.59	2.70	2.63		

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.11	3.00		
PULL #2	3.14	3.00		
PULL #3	3.16	3.10		
PULL #4	3.05	3.01		
PULL #5	3.00	3.03		
TOTAL	15.46	15.14		
AVG.	3.09	3.02		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.20	4.24		4.12
PULL #2	4.04	4.07		4.17
PULL #3	4.29	4.20		4.11
PULL #4	4.00	4.19		4.13
PULL #5	4.24	4.14		4.11
TOTAL	20.86	20.84		20.64
AVG.	4.17	4.16		4.12

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6587783
22 Jan 1988

CENTROIDAL DISTANCES

0 TO 1	.837558
1 TO 2	.0621772
1 TO 3	.324992
1 TO 4	.28821
1 TO 5	.214441

34

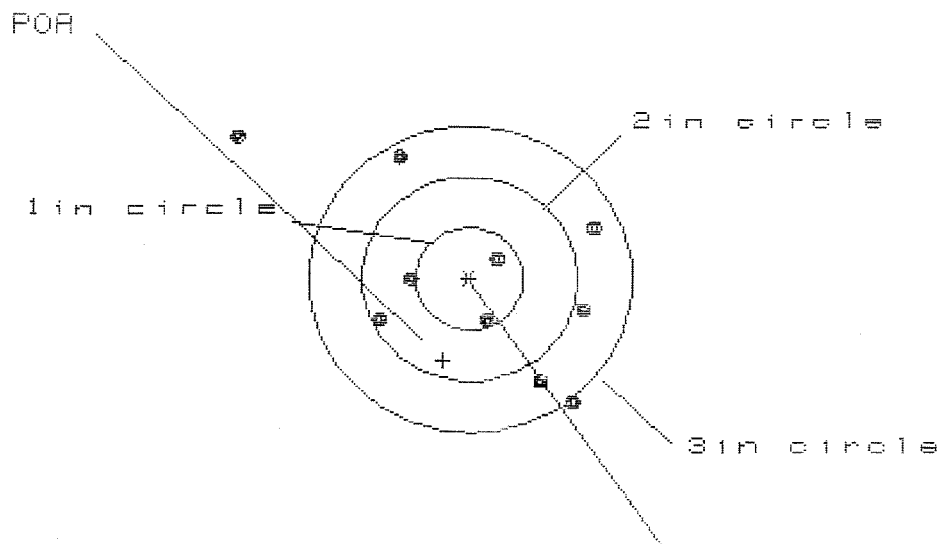
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THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .4832
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .7856
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .883628
THE AMR FOR THIS RIFLE IS: 1.126

22 Jan 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C8587703

CENTERFIRE PATTERNS # 1



OF SHOTS = 10

IN CIR

1 in = 2

2 in = 4

3 in = 8

HS = 3.369

VS = 2.609

GS = 4.039

CENTROID *

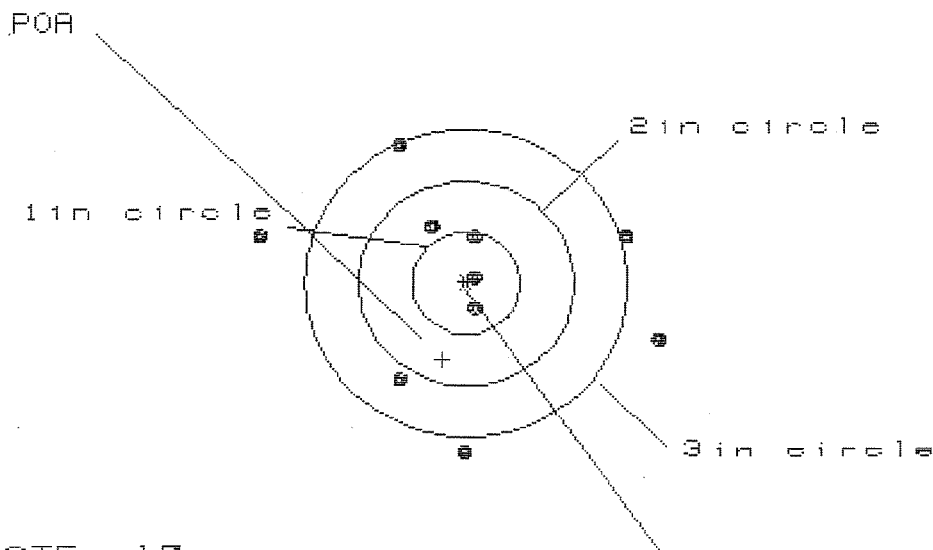
PATTERN #

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.191	.949	1.032
MINIMUM X	-2.178	-1.079	-.996
MAXIMUM Y	1.402	1.340	1.209
MINIMUM Y	-1.207	-1.052	-1.013
CENTROID X	.248	.490	.407
CENTROID Y	.800	.645	.776
POA TO CENTROID in.	.838	.810	.876
MIN RADIUS	.364	.222	.289
MEAN RADIUS	1.126	.922	.880
MAX RADIUS	2.590	1.593	1.438
HORIZONTAL SPREAD	3.369	2.028	2.028
VERTICAL SPREAD	2.609	2.392	2.222
EXTREME SPREAD	4.039	2.836	2.543
NUMBER IN ONE INCH CIRCLE =		2	
NUMBER IN TWO INCH CIRCLE =		4	
NUMBER IN THREE INCH CIRCLE =		8	

22 Jan 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C6587703

CENTERFIRE PATTERNS # 2



OF SHOTS = 10

IN CIR

1 in = 3

2 in = 4

3 in = 5

HS = 3.722

VS = 3.001

GS = 3.857

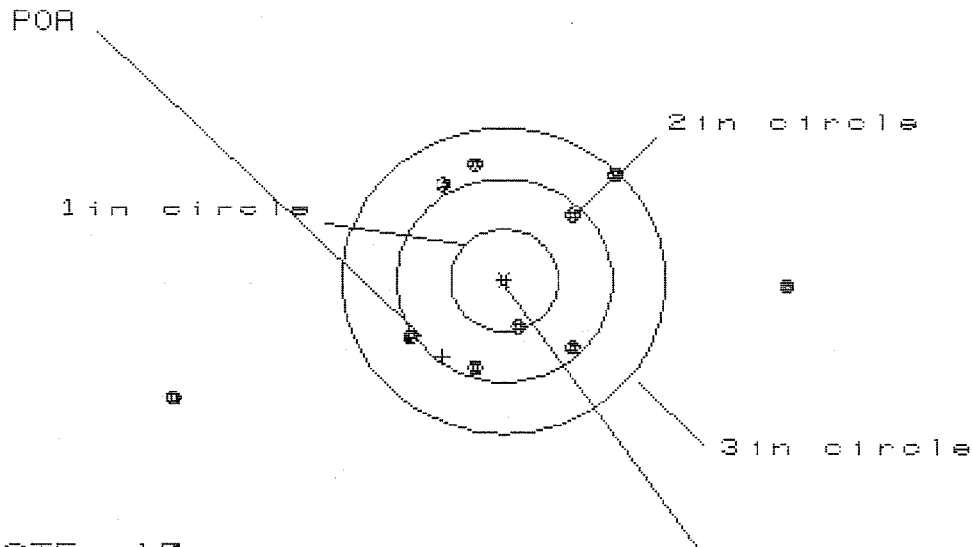
CENTROID *

PATTERN #	10	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.779	1.563	1.454
MINIMUM X	-1.943	-1.801	-1.606
MAXIMUM Y	1.383	1.434	1.371
MINIMUM Y	-1.618	-1.567	-1.630
CENTROID X	.219	.435	.240
CENTROID Y	.745	.694	.757
POA TO CENTROID in.	.776	.819	.794
MIN RADIUS	.073	.172	.049
MEAN RADIUS	1.111	1.025	.904
MAX RADIUS	1.996	1.643	1.631
HORIZONTAL SPREAD	3.722	2.364	2.060
VERTICAL SPREAD	3.001	3.001	3.001
EXTREME SPREAD	3.857	3.057	3.051
NUMBER IN ONE INCH CIRCLE =	3		
NUMBER IN TWO INCH CIRCLE =	4		
NUMBER IN THREE INCH CIRCLE =	5		

22 Jan 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C6587783

CENTERFIRE PATTERNS # 3



OF SHOTS- 10

IN CIR

1 in = 1

2 in = 5

3 in = 8

HS= 5.628

VS= 2.291

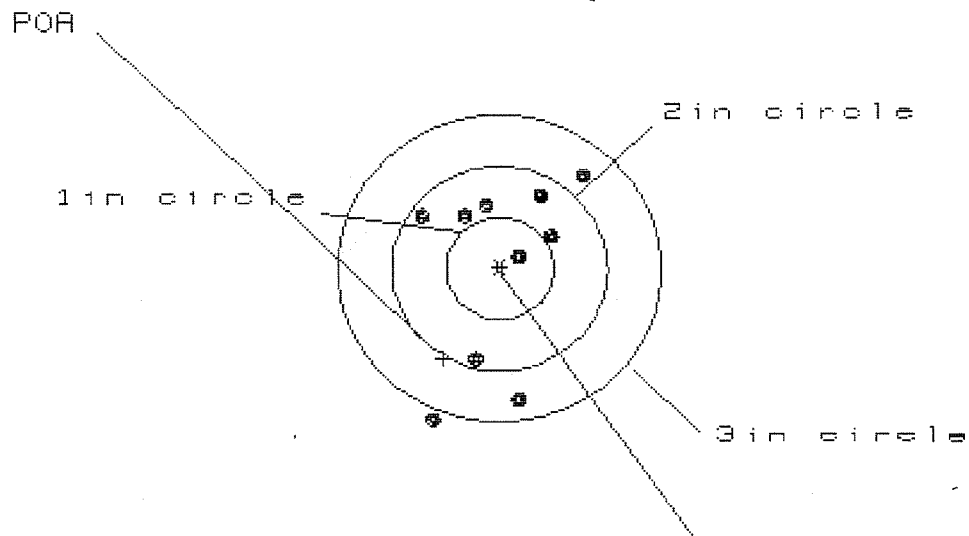
GS= 5.744

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	2.602	2.266	1.007
MINIMUM X	-3.026	-1.183	-.900
MAXIMUM Y	1.109	.978	.957
MINIMUM Y	-1.182	-.963	-.984
CENTROID X	.570	.906	.623
CENTROID Y	.756	.887	.908
POA TO CENTROID in.	.947	1.268	1.101
MIN RADIUS	.490	.545	.628
MEAN RADIUS	1.367	1.143	.978
MAX RADIUS	3.249	2.272	1.328
HORIZONTAL SPREAD	5.628	3.449	1.907
VERTICAL SPREAD	2.291	1.941	1.941
EXTREME SPREAD	5.744	3.483	2.451
NUMBER IN ONE INCH CIRCLE =	1		
NUMBER IN TWO INCH CIRCLE =	5		
NUMBER IN THREE INCH CIRCLE =	8		

22 Jan 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C8587783

CENTERFIRE PATTERNS # 4



OF SHOTS= 10

IN CIR

1 in = 1

2 in = 7

3 in = 9

CENTROID #

HS= 1.514

VS= 2.420

GS= 2.781

PATTERN

	10	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.787	.722	.731
MINIMUM X	-.727	-.792	-.783
MAXIMUM Y	.900	.731	.546
MINIMUM Y	-1.520	-1.483	-1.259
CENTROID X	.524	.589	.580
CENTROID Y	.883	1.052	1.237
POA TO CENTROID in.	1.027	1.206	1.367
MIN RADIUS	.234	.101	.218
MEAN RADIUS	.876	.732	.597
MAX RADIUS	1.629	1.485	1.294
HORIZONTAL SPREAD	1.514	1.514	1.514
VERTICAL SPREAD	2.420	2.214	1.805
EXTREME SPREAD	2.781	2.307	2.077
NUMBER IN ONE INCH CIRCLE =		1	
NUMBER IN TWO INCH CIRCLE =		7	
NUMBER IN THREE INCH CIRCLE =		9	

22 Jan 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C6587703

CENTERFIRE PATTERNS

5

POA

1in circle

2in circle

3in circle

OF SHOTS- 10

IN CIR

1in = 2

2in = 4

3in = 8

HS= 3.172

VS= 2.960

GS= 3.466

CENTROID *

PATTERN #

SHOTS (BEST OF)

	10	8	8
MAXIMUM X	1.034	1.755	.814
MINIMUM X	-2.138	-1.523	-1.505
MAXIMUM Y	1.382	1.288	1.079
MINIMUM Y	-1.578	-1.672	-1.069
CENTROID X	.455	.698	.675
CENTROID Y	.744	.838	1.047
POA TO CENTROID in.	.872	.877	1.246
MIN RADIUS	.325	.160	.282
MEAN RADIUS	1.148	.975	.886
MAX RADIUS	2.300	1.678	1.530
HORIZONTAL SPREAD	3.172	2.319	2.319
VERTICAL SPREAD	2.960	2.960	2.148
EXTREME SPREAD	3.466	2.962	2.458
NUMBER IN ONE INCH CIRCLE	=	2	
NUMBER IN TWO INCH CIRCLE	=	4	
NUMBER IN THREE INCH CIRCLE	=	8	

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C 6587703

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 and Tap Sight Holes			
618	Polish Barrel			
620	Apply Coatings (Barrel Action)			
	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			

op. #	BARBER - M24 0025519 OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	8	8	8			5/4/96	JW
	G) Safety Off Force	4	4	4			5/4/96	JW
	H) Trigger Pull Test & Retainability							
	I) Firing Pin Indent	.0235	.023	.0235			5/4/96	JW
	J) Assemble Stock							
	K) Assemble Swivel Studs							
	L) Attach Front and Rear Sight Assemblies							
	M) Iron Sight Alignment							
	N) Detach Front & Rear Sights & place in numbered container							
	O) Attach Scope to Rifle							
	P) Detach & Attach Scope 20 Times							
640	Gallery Target & Test							
	A) Time							
	B) Malfunctions							
	C) Pierced Primers							
	D) Optical Clarity of Scope							
645	Inspect for Live Ammo							
655	Final Inspection							
	A) Headspace							
	B) Trigger Pull	2.74	2.83	2.89	2.83	2.83	5/4/96	JW
	C) Function							
660	Pack							

 		VERY IMPORTANT Instruction Book enclosed to assure safe use of this firearm.
MODEL 700™ M24		SERIAL NO. C6587703
MADE IN ILION, N.Y. U.S.A. Reg. U.S. Pat & Tm. Off, Marca Registrada Marque Deposee.		ORDER NO. 5716



5716 C6587703



0 47700 25716 7

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6587703

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	1019	90	RW
600	Proof	1019	90	RW
607	Check Headspace	1019	90	RW
610	Dis-assemble Gun	1019	90	RW
612	Magnaflux Barrel Action		10/23/90	KR
	Magnaflux Bolt		10/23/90	KR
615	Rollmark Caliber		10/23/90	GL
617	Drill and Tap Sight Holes		10/26/90	WB
618	Polish Barrel RB		10/29/90	WB
620	Apply Coatings (Barrel Action)		11-7-90	TH
	Apply Coating (Bolt)			
625	Final Assembly			
	A) Clean inside of Bolt Assembly		11/12/90	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		11/12/90	RW
	C) Inspect Ejector Hole for Chamfer		11/12/90	RW
	D) Oil Firing Pin Ass'y		11/12/90	RW
	E) Adjust Trigger Pull to Min Setting and Stake		11/27/90	GL

op. #	NAME	READINGS				DATE	INIT	
625 cont.	F) Safety On Force	3 3/4	3 3/4	3 3/4	11/27/90	WB		
	G) Safety Off Force	2	2	2	11/27/90	WB		
	H) Trigger Pull Test & Retainability				11/27/90	HL		
	I) Firing Pin Indent	.0235	.0235	.0235	11/27/90	WB		
	J) Assemble Stock				12/7/90	RW		
	K) Assemble Swivel Studs				12-8-90	JS		
	L) Attach Front and Rear Sight Assemblies				12/7/90	RW		
	M) Iron Sight Alignment				12/7/90	RW		
	N) Detach Front & Rear Sights & place in numbered container				12/7/90	RW		
	O) Attach Scope to Rifle				12/7/90	RW		
	P) Detach & Attach Scope 20 Times				12/7/90	RW		
640	Gallery Target & Test				12-7-90	DH		
	A) Time				12-7-90	DH		
	B) Malfunctions				12-7-90	DH		
	C) Pierced Primers				12-7-90	DH		
	D) Optical Clarity of Scope				12-7-90	DH		
645	Inspect for Live Ammo				12-7-90	DH		
655	Final Inspection							
	A) Headspace				12-8-90	JS		
	B) Trigger Pull	230	245	246	242	240	12-8-90	JS
	C) Function						12-8-90	JS
660	Pack						12/19/90	VF

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# ± .50#

3.00# ± .75#

4.00# ± 1.00#

SERIAL NO. 06587703

DATE 11-27-90

TESTER JY.

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.44	2.29	2.21	2.30	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.39	2.29	2.26	2.45	
PULL #3	2.31	2.18	2.22	2.46	
PULL #4	2.28	2.25	2.23	2.42	
PULL #5	2.29	2.26	2.19	2.40	
TOTAL					
AVG.					

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.43	3.21		
PULL #2	3.30	3.20		
PULL #3	3.36	3.16		
PULL #4	3.29	3.18		
PULL #5	3.32	3.13		
TOTAL				
AVG.				

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.35	4.41		4.36
PULL #2	4.33	4.35		4.44
PULL #3	4.41	4.32		4.38
PULL #4	4.31	4.35		4.48
PULL #5	4.34	4.38		4.48
TOTAL				
AVG.				

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6587703
7 Dec 1990

CENTROIDAL DISTANCES

0 TO 1	.44273
1 TO 2	.402244
1 TO 3	.189763
1 TO 4	.415482
1 TO 5	.610161

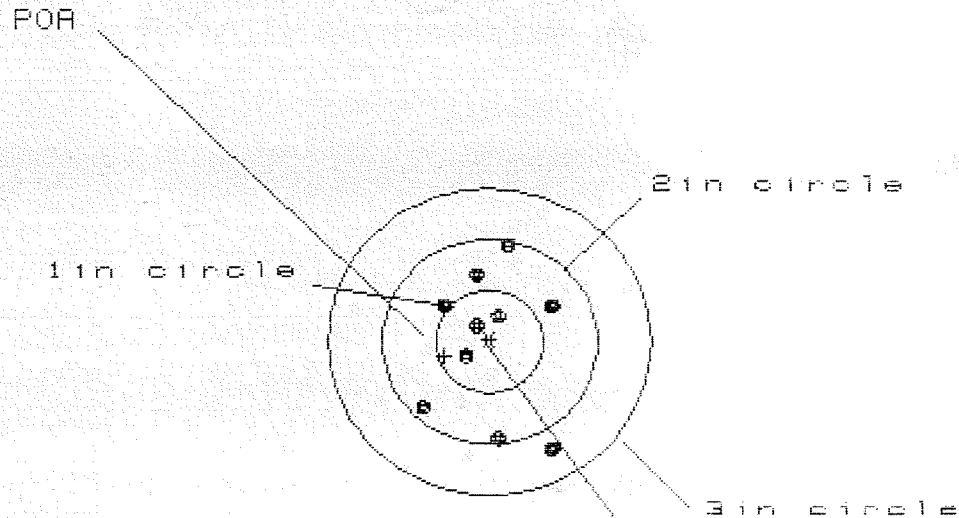
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THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .1164
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .0776
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .140006
THE AMR FOR THIS RIFLE IS: .921

7 Dec 1998

FILE:/PATTERNING/CENTERFIRE_PATT/06587703

CENTERFIRE PATTERNS # 1



OF SHOTS = 10

IN CIR

1in = 3

2in = 9

3in = 10

HS = 1.199

VS = 1.908

GS = 1.942

CENTROID *

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.571	.631	.653
MINIMUM X	-.628	-.568	-.546
MAXIMUM Y	.914	.803	.673
MINIMUM Y	-.994	-1.040	-.842
CENTROID X	.419	.359	.337
CENTROID Y	.143	.254	.384
POA TO CENTROID in.	.443	.440	.511
MIN RADIUS	.140	.027	.131
MEAN RADIUS	.639	.551	.480
MAX RADIUS	1.131	1.055	1.003
HORIZONTAL SPREAD	1.199	1.199	1.199
VERTICAL SPREAD	1.908	1.843	1.515
EXTREME SPREAD	1.942	1.844	1.717
NUMBER IN ONE INCH CIRCLE =	3		
NUMBER IN TWO INCH CIRCLE =	9		
NUMBER IN THREE INCH CIRCLE =	10		

7 Dec 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C8587703

CENTERFIRE PATTERNS # 2

POA

1 in circle

2 in circle

3 in circle

OF SHOTS = 10

IN CIR

1 in = 3

2 in = 7

3 in = 8

HS = 1.824

VS = 2.698

GS = 2.725

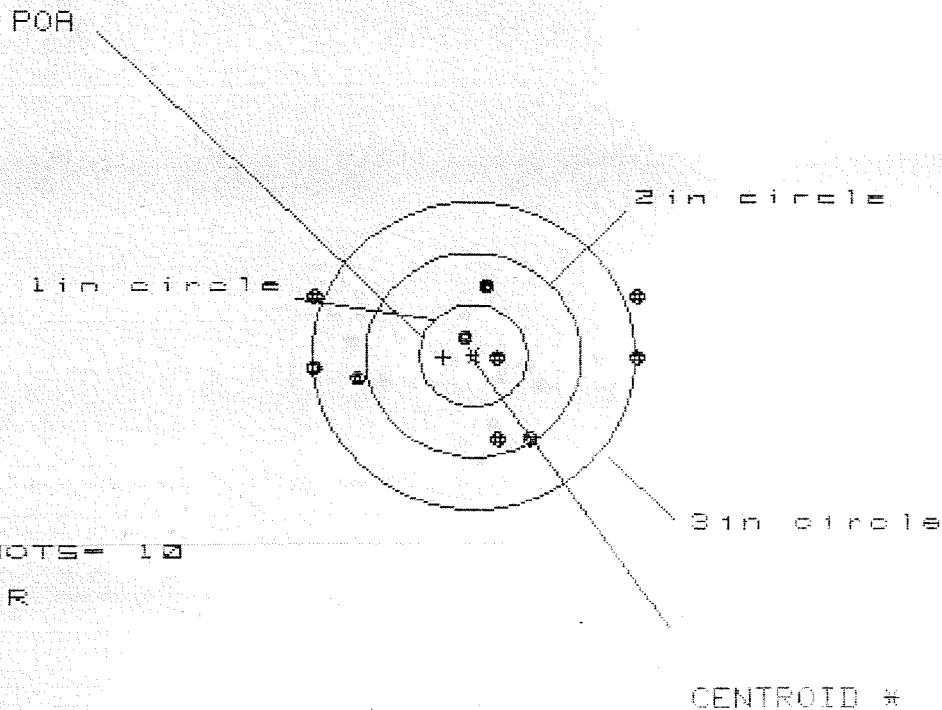
CENTROID #

PATTERN #	2		
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.914	.813	.734
MINIMUM X	-.910	-.629	-.612
MAXIMUM Y	1.285	.999	.840
MINIMUM Y	-1.413	-1.270	-.928
CENTROID X	.037	.138	.217
CENTROID Y	.017	-.126	.033
POA TO CENTROID in.	.041	.187	.219
MIN RADIUS	.199	.031	.171
MEAN RADIUS	.829	.725	.625
MAX RADIUS	1.574	1.418	.945
HORIZONTAL SPREAD	1.824	1.442	1.346
VERTICAL SPREAD	2.698	2.269	1.768
EXTREME SPREAD	2.725	2.285	1.791
NUMBER IN ONE INCH CIRCLE =		3	
NUMBER IN TWO INCH CIRCLE =		7	
NUMBER IN THREE INCH CIRCLE =		8	

7 Dec 1998

FILE:/PATTERNING/CENTERFIRE_PATT/06587703

CENTERFIRE PATTERNS # 3



OF SHOTS = 10

IN CIR

1 in = 2

2 in = 4

3 in = 8

HS = 2.972

VS = 1.537

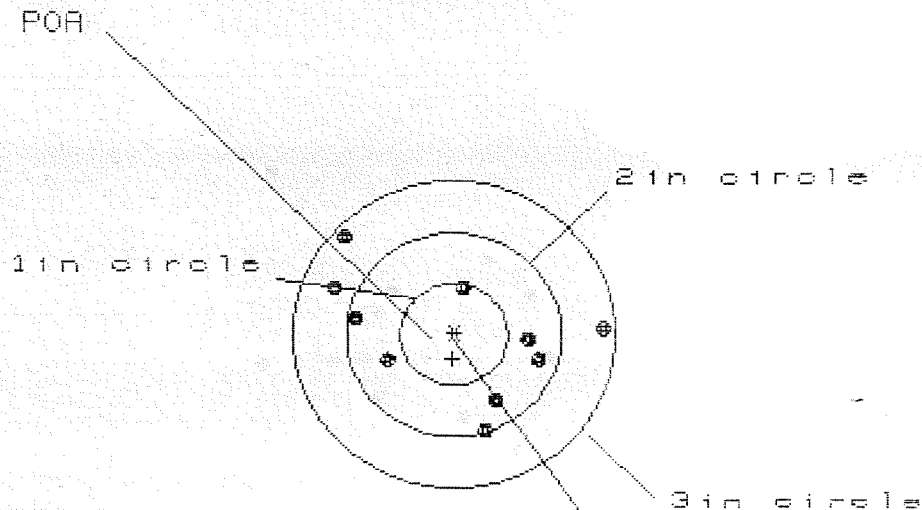
GS = 3.023

PATTERN #	3	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.488	1.324	1.488
MINIMUM X	-1.484	-1.619	-1.455
MAXIMUM Y	.697	.761	.837
MINIMUM Y	-.840	-.776	-.700
CENTROID X	.278	.442	.278
CENTROID Y	.016	-.048	-.124
POA TO CENTROID in.	.278	.445	.305
MIN RADIUS	.174	.064	.222
MEAN RADIUS	1.015	.938	.879
MAX RADIUS	1.593	1.620	1.497
HORIZONTAL SPREAD	2.972	2.943	2.943
VERTICAL SPREAD	1.537	1.537	1.537
EXTREME SPREAD	3.023	3.003	2.946
NUMBER IN ONE INCH CIRCLE =	2		
NUMBER IN TWO INCH CIRCLE =	4		
NUMBER IN THREE INCH CIRCLE =	8		

7 Dec 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C6587783

CENTERFIRE PATTERNS # 4



OF SHOTS - 10

IN CIR

1 in = 1

2 in = 7

3 in = 10

HS = 2.576

VS = 1.903

GS = 2.615

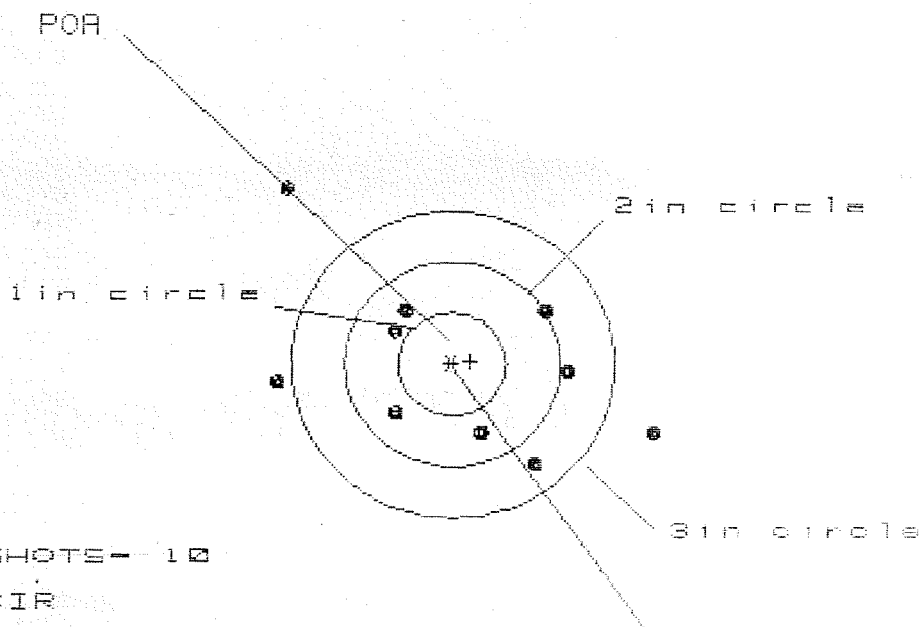
PATTERN #	4	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.423	.924	.816
MINIMUM X	-1.153	-.995	-1.103
MAXIMUM Y	.955	.960	.623
MINIMUM Y	-.948	-.943	-.823
CENTROID X	.015	-.143	-.035
CENTROID Y	.240	.235	.115
POA TO CENTROID in.	.241	.275	.120
MIN RADIUS	.420	.473	.535
MEAN RADIUS	.924	.864	.796
MAX RADIUS	1.424	1.290	1.267
HORIZONTAL SPREAD	2.576	1.919	1.919
VERTICAL SPREAD	1.903	1.903	1.446
EXTREME SPREAD	2.615	2.303	2.051
NUMBER IN ONE INCH CIRCLE =	1		
NUMBER IN TWO INCH CIRCLE =	7		
NUMBER IN THREE INCH CIRCLE =	10		

7 Dec 1998

FILE:/PATTERNING/CENTERFIRE_PATT/06587783

CENTERFIRE PATTERNS

5



OF SHOTS - 10

IN CIR

1 in = 1

2 in = 4

3 in = 5

HS = 3.518

VS = 2.686

GS = 4.110

CENTROID *

PATTERN #	5
SHOTS (BEST OF)	10
MAXIMUM X	1.839
MINIMUM X	-1.679
MAXIMUM Y	1.682
MINIMUM Y	-1.004
CENTROID X	-.167
CENTROID Y	-.027
POA TO CENTROID in.	.169
MIN RADIUS	.636
MEAN RADIUS	1.198
MAX RADIUS	2.290
HORIZONTAL SPREAD	3.518
VERTICAL SPREAD	2.686
EXTREME SPREAD	4.110
NUMBER IN ONE INCH CIRCLE =	1
NUMBER IN TWO INCH CIRCLE =	4
NUMBER IN THREE INCH CIRCLE =	5