

C6225488

MODEL 700™ M24

Model **SMS**™

Action

Barrel Length

Capacity

Order No. **5716**

*Includes 1 in chamber.



RECEIVING AND ESTIMATING REPORT

BARBER M24 0061857

COMMENTS

ORDER
R 94-18200

INITIAL FDC
CUSTOMER ORDER NO. DAAA09-92-C-0834

W/10X SCOPE, M-24 SNIPER, W/DEPLOYMENT KIT
ATTN: FRED MARTIN

Scope # S/N 90-0560

DATE RECEIVED 06/10/94 DATE OPENED 06/10/94 DATE CODE
SERIAL NUMBER C6225488 NEW SERIAL NUMBER
MODEL AND GRADE 700 7-62 NATO
ACCESSORIES SLING STRAP HARD CASE SCOPE MNTS SCOPE BASE

FROM:

SHIP TO:

COMMANDER (W52H094138H226)
DEFENSE DIST DEPOT ANNISTON
ATTN DDAA-UR BLDG 112
ANNISTON

AL 36201-5025

COMMANDER (W52H094138H226)
DEFENSE DIST DEPOT ANNISTON
ATTN DDAA-UR BLDG 112
ANNISTON

AL

36201-5025

CUST NO: 098397 CJO.DL

ACCOUNT NUMBER

ACCOUNT NUMBER N/C

WRITE ☐

PROM. DATE

ESTIMATED

VIA

FRT

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

✓ Barrel 1
✓ Stock
✓ Trigger Assy
✓ Firing Pin Assy
✓ Front & Rear Sight Assy

REPAIRMAN	PROOF	CLEAN	TEST	TARGET	PATTERN
GALLERY TESTER	DATE	DATE	DATE	DATE	DATE

OFFICE COPY

RD6925 REV. 1/94

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

BARBER - M24 0061857

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# + .50#

3.00# + .75#

4.00# + 1.00#

SERIAL NO. 06225488

DATE 3-25-90

TESTER DA

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.76	2.70	2.78		MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.54	2.76	2.41		
PULL #3	2.77	2.83	2.68		
PULL #4	2.68	2.74	2.65		
PULL #5	2.74	2.69	2.73		
TOTAL	1349	1372	1325		
AVG.	2.69	2.74	2.65		

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.28	3.08		
PULL #2	3.08	3.00		
PULL #3	3.15	3.00		
PULL #4	3.16	3.06		
PULL #5	3.12	3.14		
TOTAL	1579	1528		
AVG.	3.15	3.05		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.29	4.34		4.12
PULL #2	4.26	4.00		4.10
PULL #3	4.01	4.25		4.11
PULL #4	4.28	4.32		4.14
PULL #5	4.27	4.28		4.11
TOTAL	2111	2119		2058
AVG.	4.22	4.23		4.11

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6225488
11 Feb 1980

CENTROIDAL DISTANCES

0 TO	1	.775006
1 TO	2	.544737
1 TO	3	.485474
1 TO	4	.367583
1 TO	5	.25316

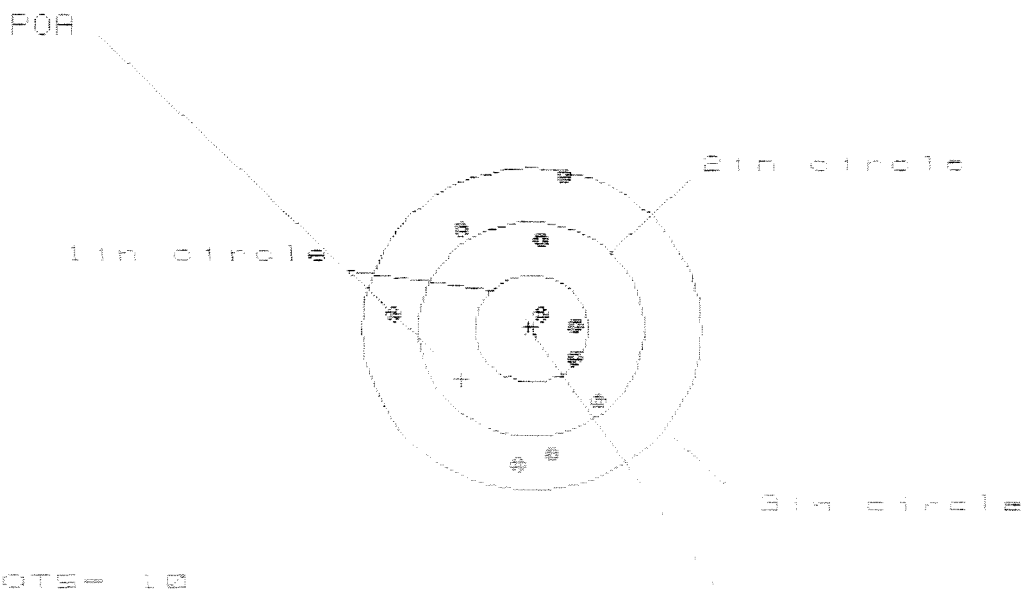
$\frac{0}{1} + \frac{1}{2} + \frac{1}{3} + \frac{1}{4} + \frac{1}{5}$ --- FOR

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .4494
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .34
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .563525
THE AMR FOR THIS RIFLE IS: 1.016

11 Feb 1988

FILE:/PATTERNING/CENTERFIRE_PATT/06225488

CENTERFIRE PATTERNS # 1



OF SHOTS= 10

IN CIR

1 in = 3

2 in = 5

3 in = 10

HS= 1.737

VS= 2.678

GS= 2.714

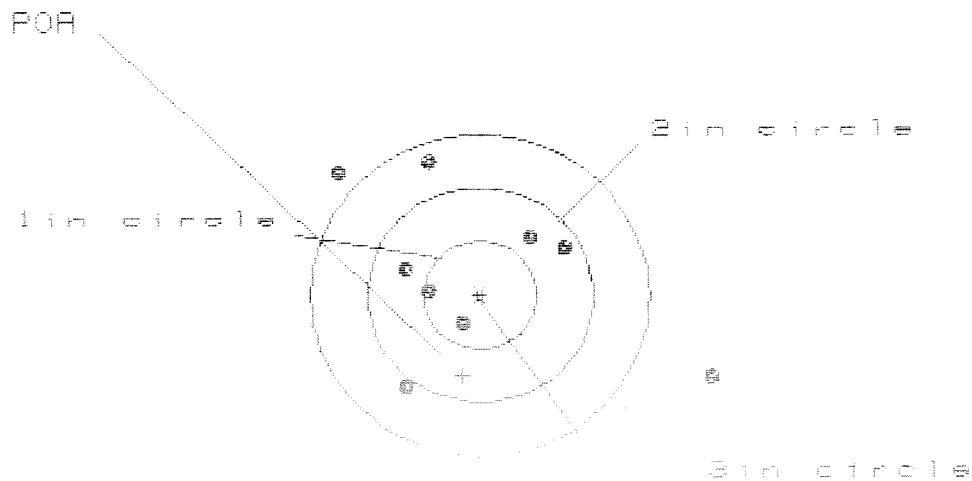
CENTROID #

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.546	.581	.565
MINIMUM X	-1.191	-1.156	-1.172
MAXIMUM Y	1.424	1.115	.979
MINIMUM Y	-1.246	-1.088	-1.179
CENTROID X	.619	.584	.600
CENTROID Y	.468	.310	.446
POA TO CENTROID in.	.776	.661	.748
MIN RADIUS	.167	.324	.196
MEAN RADIUS	.900	.843	.791
MAX RADIUS	1.459	1.277	1.205
HORIZONTAL SPREAD	1.737	1.737	1.737
VERTICAL SPREAD	2.678	2.203	2.158
EXTREME SPREAD	2.714	2.333	2.333
NUMBER IN ONE INCH CIRCLE =	3		
NUMBER IN TWO INCH CIRCLE =	5		
NUMBER IN THREE INCH CIRCLE =	10		

11 Feb 1900

FILE:/PATTERNING/CENTERFIRE_PATT/08225488

CENTERFIRE PATTERNS # 2



OF SHOTS= 10

IN CIR

1 in = 2

2 in = 5

3 in = 7

HS= 3.317

VS= 2.997

GS= 3.820

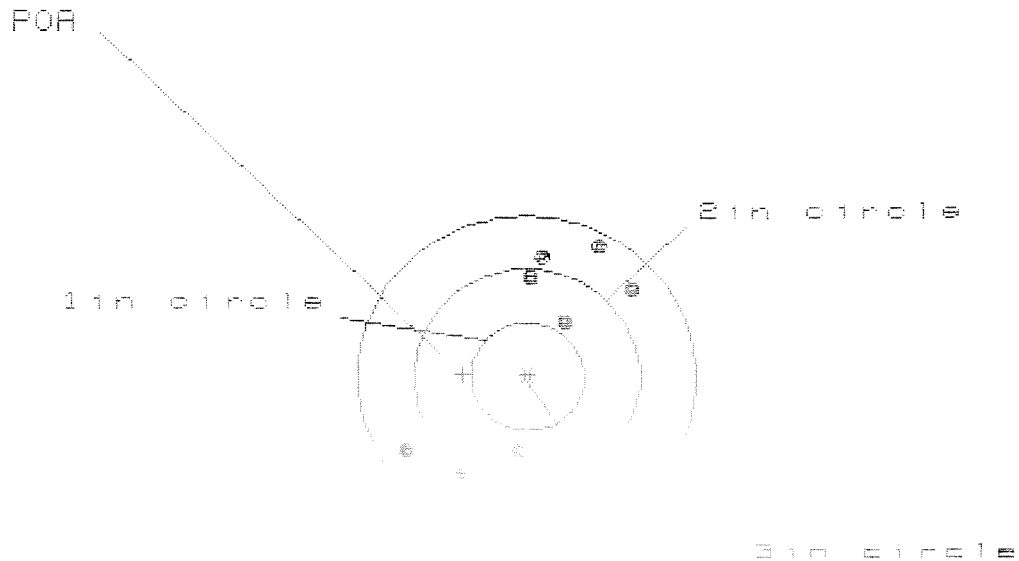
CENTROID +

PATTERN #	2	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	2.093	.933	.994
MINIMUM X	-1.224	-.991	-.930
MAXIMUM Y	1.285	1.197	.972
MINIMUM Y	-1.712	-1.800	-1.144
CENTROID X	.156	-.077	-.138
CENTROID Y	.755	.843	1.068
POA TO CENTROID in.	.771	.847	1.077
MIN RADIUS	.293	.261	.331
MEAN RADIUS	1.093	.923	.801
MAX RADIUS	2.238	1.867	1.219
HORIZONTAL SPREAD	3.317	1.924	1.924
VERTICAL SPREAD	2.997	2.997	2.116
EXTREME SPREAD	3.820	3.182	2.124
NUMBER IN ONE INCH CIRCLE =	2		
NUMBER IN TWO INCH CIRCLE =	5		
NUMBER IN THREE INCH CIRCLE =	7		

11 Feb 1988

FILE:/PATTERNING/CENTERFIRE_PATT/062254B8

CENTERFIRE PATTERNS # 3



OF SHOTS- 10

IN CIR

1in = 0

2in = 3

3in = 10

HS= 1.844

VS= 2.484

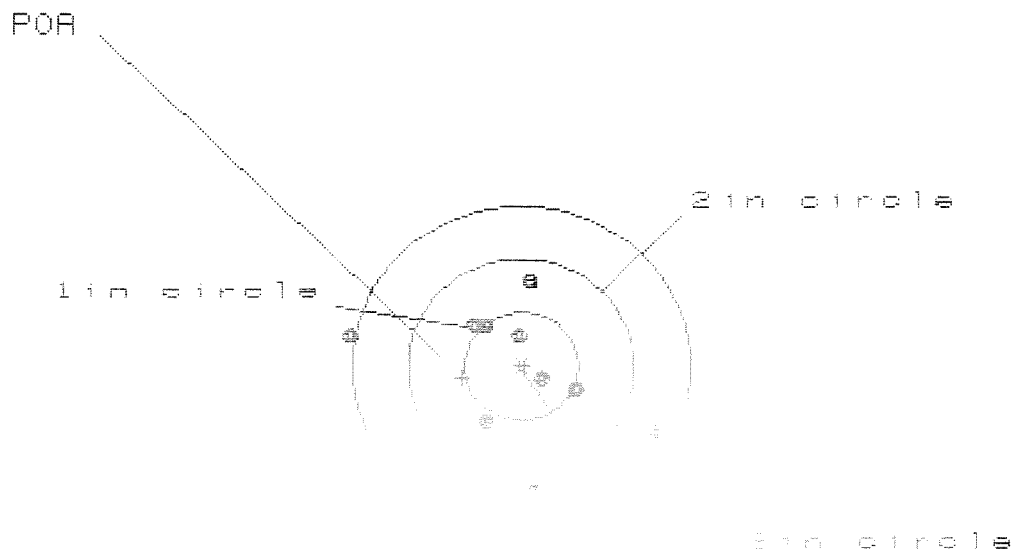
GS= 2.786

PATTERN #	1	3	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.924	.998	.932
MINIMUM X	-1.020	-.946	-1.012
MAXIMUM Y	1.238	1.283	1.144
MINIMUM Y	-1.246	-1.108	-1.054
CENTROID X	.570	.496	.562
CENTROID Y	-.016	-.154	-.015
POA TO CENTROID in.	.570	.520	.562
MIN RADIUS	.590	.588	.594
MEAN RADIUS	1.070	1.020	.990
MAX RADIUS	1.404	1.395	1.252
HORIZONTAL SPREAD	1.944	1.944	1.944
VERTICAL SPREAD	2.484	2.391	2.198
EXTREME SPREAD	2.786	2.582	2.457
NUMBER IN ONE INCH CIRCLE =		0	
NUMBER IN TWO INCH CIRCLE =		3	
NUMBER IN THREE INCH CIRCLE =		10	

11 Feb 1968

FILE:/PATTERNING/CENTERFIRE_PATT/C6225488

CENTERFIRE PATTERNS # 4



OF SHOTS- 10

IN CIR

1in = 3

2in = 8

3in = 9

HS= 2.665

VS= 1.403

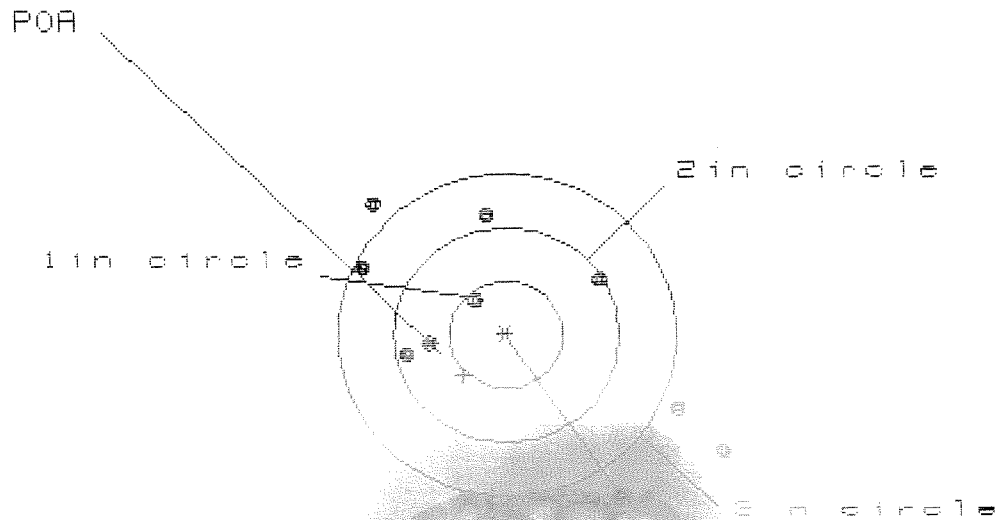
GS= 2.793

PATTERN #	4	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.175	1.010	.658
MINIMUM X	-1.490	-.619	-.493
MAXIMUM Y	.739	.767	.697
MINIMUM Y	-.664	-.636	-.706
CENTROID X	.520	.686	.560
CENTROID Y	.114	.086	.156
POA TO CENTROID in.	.533	.691	.581
MIN RADIUS	.244	.098	.235
MEAN RADIUS	.733	.633	.558
MAX RADIUS	1.510	1.155	.965
HORIZONTAL SPREAD	2.665	1.629	1.151
VERTICAL SPREAD	1.403	1.403	1.403
EXTREME SPREAD	2.793	1.893	1.552
NUMBER IN ONE INCH CIRCLE =		3	
NUMBER IN TWO INCH CIRCLE =		8	
NUMBER IN THREE INCH CIRCLE =		9	

11 Feb 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C6225488

CENTERFIRE PATTERNS # 5



OF SHOTS- 10

IN CIR

1 in = 1

2 in = 4

3 in = 6

HS= 3.123

VS= 3.006

GS= 3.805

CENTROID #

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.888	1.712	1.766
MINIMUM X	:	-1.235	-1.025	-1.970
MAXIMUM Y	:	1.214	1.094	.855
MINIMUM Y	:	-1.792	-1.912	-1.077
CENTROID X	:	.382	.172	.117
CENTROID Y	:	.379	.499	.738
POA TO CENTROID in.	:	.538	.528	.747
MIN RADIUS	:	.450	.234	.040
MEAN RADIUS	:	1.283	1.113	.952
MAX RADIUS	:	2.173	1.961	2.069
HORIZONTAL SPREAD	:	3.123	2.737	2.737
VERTICAL SPREAD	:	3.006	3.006	1.932
EXTREME SPREAD	:	3.805	3.307	3.282
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		4	
NUMBER IN THREE INCH CIRCLE	=		6	

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # *C6225488*

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. #	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	.024	.024			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	2.45	2.66	2.40	2.57	2.57	5/4/96	JW
	C) Function							
660	Pack							

Remington



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

MODEL 700TM M24

SERIAL NO.
C6225488

ORDER NO.
5716

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

20



5716 C6225488

UPC



0 47700 25716 7



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#4

221

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6225488

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	12 9	88	RW
600	Proof	12 9	88	RW
607	Check Headspace	12 9	88	RW
610	Dis-assemble Gun	12 9	88	RW
612	Magnaflux Barrel Action		12-22-88	RW
	Magnaflux Bolt		1-3-89	RW
615	Rollmark Caliber		12/22/88	MBC
617	Drill and Tap Sight Holes	1 3	89	FB
618	Polish Barrel	12 2	88	WJ
620	Apply Coatings (Barrel Action)		1-12-89	JA
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		1/20/89	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		1/20/89	RW
	C) Inspect Ejector Hole for Chamfer		1/20/89	RW
	D) Oil Firing Pin Ass'y		1/20/89	RW
	E) Adjust Trigger Pull to Min Setting and Stake		20 Jan 89	JS

op. #	OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	7	6	6			25 Jan 89	JS
	G) Safety Off Force	3	3	3			25 Jan 89	JS
	H) Trigger Pull Test & Retainability						20 Jan 89	JS
	I) Firing Pin Indent	.020	.0205	.021			25 Jan 89	JS
	J) Assemble Stock						1/26/89	RW
	K) Assemble Swivel Studs						1/26/89	JS
	L) Attach Front and Rear Sight Assemblies						1/26/89	RW
	M) Iron Sight Alignment						1/26/89	RW
	N) Detach Front & Rear Sights & place in numbered container						1/26/89	RW
	O) Attach Scope to Rifle						1/27/89	JS
	P) Detach & Attach Scope 20 Times						27 Jan 89	JS
640	Gallery Target & Test	55 R	96 L				1/30/89	DA
	A) Time					OK	1/30/89	DA
	B) Malfunctions					OK	1/30/89	DA
	C) Pierced Primers					OK	1/30/89	DA
	D) Optical Clarity of Scope						1/30/89	DA
645	Inspect for Live Ammo						1/30/89	DA
655	Final Inspection							
	A) Headspace						1 Feb 89	JS
	B) Trigger Pull	2.11	2.15	2.31	2.03	2.11	1 Feb 89	JS
	C) Function						1 Feb 89	JS
660	Pack						27 Jan 89	JS

BARBER - M24 0061871

SWS TRIGGER PULL TEST

CG225488

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# ± .50#

3.00# ± .75#

4.00# ± 1.00#

SERIAL NO. 66348729DATE 11/2/89TESTER WB

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.45	2.30	2.39	2.53	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.45	2.35	2.36	2.73	
PULL #3	2.45	2.36	2.31	2.81	
PULL #4	2.44	2.36	2.35	2.61	
PULL #5	2.51	2.41	2.33	2.69	
TOTAL	12.30	11.78	11.74	13.37	
AVG.	2.46	2.35	2.35	2.674	

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.05	3.13		
PULL #2	3.11	3.12		
PULL #3	3.15	3.13		
PULL #4	3.09	3.15		
PULL #5	3.11	3.16		
TOTAL	15.51	15.69		
AVG.	3.10	3.14		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.21	4.03		4.22
PULL #2	4.21	4.00		4.15
PULL #3	4.22	4.04		4.15
PULL #4	4.18	4.03		4.15
PULL #5	4.15	4.09		4.12
TOTAL	20.97	20.19		20.79
AVG.	4.19	4.04		4.16

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # 06225488
2 Feb 1989

CENTROIDAL DISTANCES

0 TO	1	.23858
1 TO	2	.511893
1 TO	3	.0917061
1 TO	4	.778525
1 TO	5	.16887

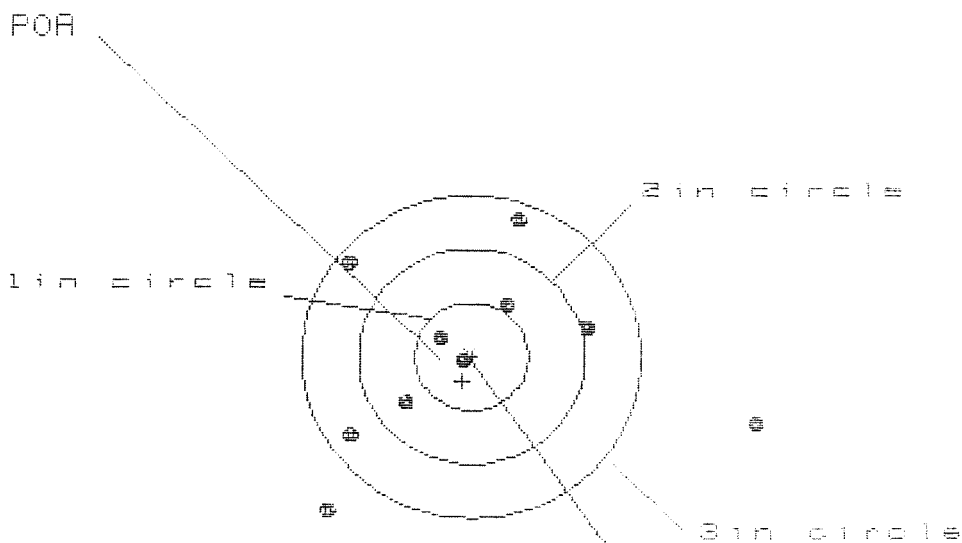
$\frac{3}{4} \times 2$ <----POA
4

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .2028
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.002
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .20281
THE AMR FOR THIS RIFLE IS: 1.097

30 Jan 1989

FILE:/PATTERNING/CENTERFIRE_PATT/08225488

CENTERFIRE PATTERNS # 1



OF SHOTS = 10

IN CIR

1 in = 2

2 in = 4

3 in = 8

HS = 3.806

VS = 2.697

GS = 3.924

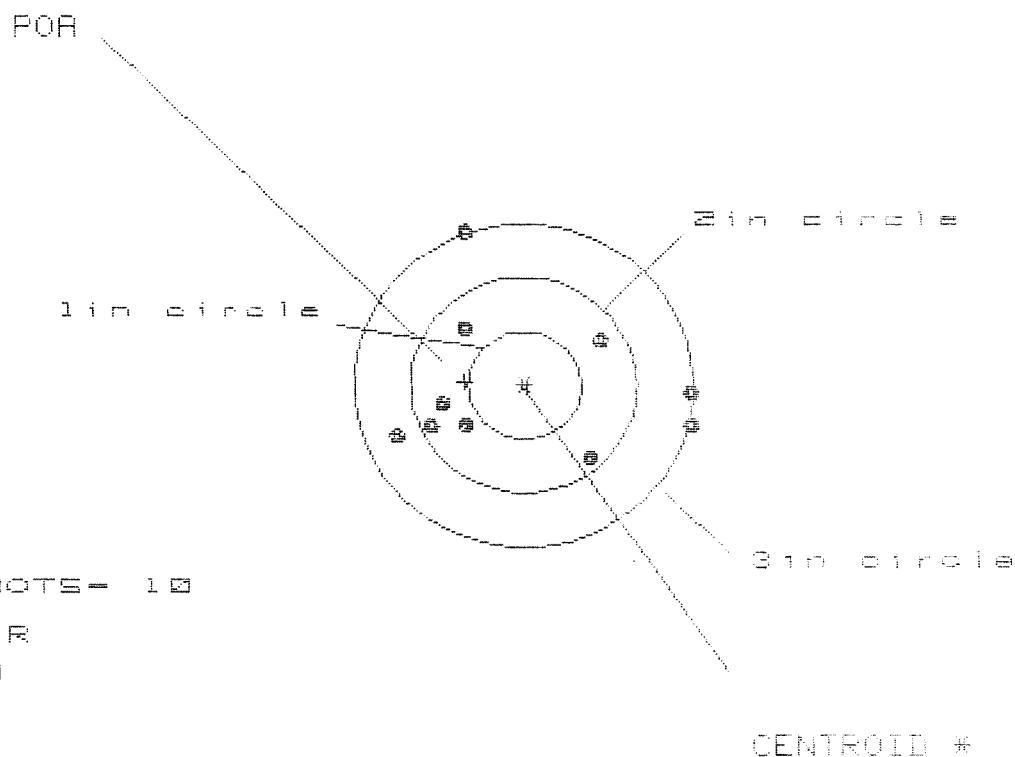
CENTROID #

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	2.546	1.345	1.223
MINIMUM X	-1.260	-0.977	-0.913
MAXIMUM Y	1.301	1.230	1.047
MINIMUM Y	-1.396	-1.467	-0.948
CENTROID X	.079	-.204	-.082
CENTROID Y	.223	.294	.477
FOR TO CENTROID in.	.237	.358	.484
MIN RADIUS	.131	.098	.151
MEAN RADIUS	1.143	.934	.831
MAX RADIUS	2.624	1.762	1.311
HORIZONTAL SPREAD	3.806	2.322	2.136
VERTICAL SPREAD	2.697	2.697	1.995
EXTREME SPREAD	3.924	3.186	2.498
NUMBER IN ONE INCH CIRCLE =	2		
NUMBER IN TWO INCH CIRCLE =	4		
NUMBER IN THREE INCH CIRCLE =	8		

30 Jan 1989

FILE:/PATTERNING/CENTERFIRE_PATT/06225488

CENTERFIRE PATTERNS # 2



OF SHOTS- 10

IN CIR

1 in = 0

2 in = 6

3 in = 8

HS= 2.577

VS= 2.158

GS= 2.712

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.495	1.439	1.617
MINIMUM X	:	-1.082	-1.138	-.961
MAXIMUM Y	:	1.467	.705	.677
MINIMUM Y	:	-.691	-.528	-.555
CENTROID X	:	.524	.580	.402
CENTROID Y	:	-.030	-.193	-.166
POA TO CENTROID in.	:	.524	.611	.435
MIN RADIUS	:	.625	.604	.451
MEAN RADIUS	:	1.053	.991	.893
MAX RADIUS	:	1.552	1.442	1.618
HORIZONTAL SPREAD	:	2.577	2.577	2.577
VERTICAL SPREAD	:	2.158	1.233	1.233
EXTREME SPREAD	:	2.712	2.604	2.604
NUMBER IN ONE INCH CIRCLE	=		0	
NUMBER IN TWO INCH CIRCLE	=		6	
NUMBER IN THREE INCH CIRCLE	=		8	

30 Jan 1989

FILE:/PATTERNING/CENTERFIRE_PATT/08225488

CENTERFIRE PATTERNS # 3

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= 3.254

VS= 1.458

GS= 3.297

CENTROID *

PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	2.026	1.137	1.012
MINIMUM X	:	-1.228	-1.003	-.882
MAXIMUM Y	:	.561	.521	.404
MINIMUM Y	:	-.896	-.937	-.535
CENTROID X	:	-.004	-.229	-.104
CENTROID Y	:	.262	.303	.420
POA TO CENTROID in.	:	.263	.380	.433
MIN RADIUS	:	.249	.113	.098
MEAN RADIUS	:	.884	.720	.617
MAX RADIUS	:	2.059	1.373	1.038
HORIZONTAL SPREAD	:	3.254	2.140	1.894
VERTICAL SPREAD	:	1.458	1.458	.939
EXTREME SPREAD	:	3.297	2.496	1.898
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		7	
NUMBER IN THREE INCH CIRCLE	=		8	

30 Jan 1989

FILE:/PATTERNING/CENTERFIRE_PATT/C8225488

CENTERFIRE PATTERNS # 4

POA

1in circle

2in circle

3in circle

OF SHOTS= 10

IN CIR

1in = 0

2in = 3

3in = 5

HS= 3.012

VS= 2.941

GS= 3.113

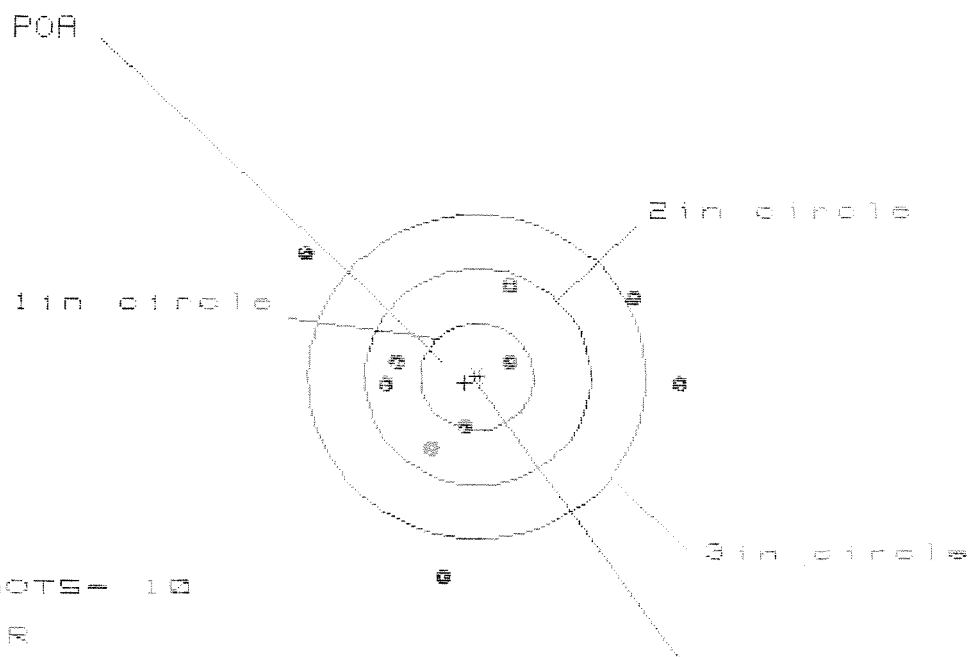
CENTROID *

PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.471	1.299	1.204
MINIMUM X	:	-1.541	-1.186	-1.281
MAXIMUM Y	:	1.639	1.494	1.165
MINIMUM Y	:	-1.302	-.978	-.791
CENTROID X	:	.305	.477	.572
CENTROID Y	:	-.522	-.377	-.564
POA TO CENTROID in.	:	.605	.608	.803
MIN RADIUS	:	.673	.647	.849
MEAN RADIUS	:	1.305	1.221	1.165
MAX RADIUS	:	2.018	1.677	1.377
HORIZONTAL SPREAD	:	3.012	2.485	2.485
VERTICAL SPREAD	:	2.941	2.472	1.956
EXTREME SPREAD	:	3.113	3.111	2.685
NUMBER IN ONE INCH CIRCLE	=		0	
NUMBER IN TWO INCH CIRCLE	=		3	
NUMBER IN THREE INCH CIRCLE	=		5	

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CENTERFIRE PATTERNS # 5



OF SHOTS = 10

IN CIR

1 in = 2

2 in = 6

3 in = 8

HS = 3.226

VS = 2.956

GS = 3.429

CENTROID #

PATTERN #	5	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.759	1.726	1.538
MINIMUM X	-1.467	-1.580	-1.014
MAXIMUM Y	1.116	.912	.788
MINIMUM Y	-1.840	-.900	-.786
CENTROID X	.110	.143	.331
CENTROID Y	.057	.261	.147
POA TO CENTROID in.	.124	.298	.362
MIN RADIUS	.331	.248	.185
MEAN RADIUS	1.101	1.013	.908
MAX RADIUS	1.864	1.755	1.545
HORIZONTAL SPREAD	3.226	3.226	2.552
VERTICAL SPREAD	2.956	1.812	1.574
EXTREME SPREAD	3.429	3.429	2.552
NUMBER IN ONE INCH CIRCLE =	2		
NUMBER IN TWO INCH CIRCLE =	6		
NUMBER IN THREE INCH CIRCLE =	6		