

C6611492

MODEL 700TM M24

Model **SMS**TM

Action

Barrel Length

Capacity

Order No. **5716**

*Includes 1 in chamber.

Remington

Remington

RECEIVING AND ESTIMATING REPORT

COMMENTS

ORDER
R 94-18337INITIAL
FDC CUSTOMER ORDER NO.
DAAA09-92-C-0834W/10X SCOPE, M-24 SNIPER, W/DEPLOYMENT KIT
ATTN: FRED MARTIN

SCOPE 91-0430

DATE RECEIVED
06/11/94 DATE OPENED
06/11/94 DATE CODESERIAL NUMBER
C6611492

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 C.O.D.L.

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

Trigger 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

M2400077802

SWS TRIGGER PULL TEST

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS
2.50# ± .50#
3.00# ± .75#
4.00# ± 1.00#

SERIAL NO. C6611492DATE 2-27-96TESTER DA

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.61	2.33	2.70		MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.30	2.46	2.55		
PULL #3	2.53	2.49	2.63		
PULL #4	2.33	2.47	2.27		
PULL #5	2.49	2.63	2.81		
TOTAL	1226	1238	1296		
AVG.	2.45	2.47	2.59		

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.03	3.00		
PULL #2	3.06	2.90		
PULL #3	3.12	2.96		
PULL #4	3.07	2.92		
PULL #5	3.13	3.09		
TOTAL	1541	1487		
AVG.	3.08	2.97		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.25	4.17		4.09
PULL #2	4.31	4.23		4.02
PULL #3	4.19	4.30		4.00
PULL #4	4.35	4.37		4.03
PULL #5	4.30	4.38		4.07
TOTAL	2140	2145		2021
AVG.	4.28	4.29		4.04

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C 6611492

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. #	OP. NAME	READINGS					DATE	INIT
525 cont.	F) Safety On Force	6	6	6			2/27/96	WB
	G) Safety Off Force	3	3	3			2/27/96	WB
	H) Trigger Pull Test & Retainability							
	I) Firing Pin Indent							
	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	2.56	2.48	2.50	2.47	2.55	2/27/96	WB
	C) Function							
660	Pack							

Remington®



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

MODEL 700™ M24

SERIAL NO.
C6611492

ORDER NO.
5716

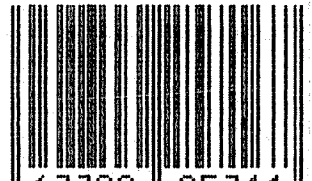
MADE IN ILION, N.Y. U.S.A. Reg. U.S. Pat & Tm. Off, Marca Registrada Marque Deposee.

20



5716 C6611492

UPC



0 47700 25716 7

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

M2400077806

INTERCHANGEABILITY

M-24

Repaired St.

CONTRACT # DAAA21-87-C-0086

GUN SERIAL #

C 6611492

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	QUALITY AUDIT	2/1/91	KA
600	Proof		2/1/91	KA
607	Check Headspace		2/1/91	KA
610	Dis-assemble Gun		2/1/91	KA
612	Magnaflux Barrel Action		2 11 91	KCD
	Magnaflux Bolt		2 11 91	KCD
615	Rollmark Caliber		2 11 91	GS
617	Drill and Tap Sight Holes		2 13 91	FB
618	Polish Barrel RAB		2 13 91	WB
620	Apply Coatings (Barrel Action)		5-12-91	KA
	Apply Coating (Bolt)			
625	Final Assembly		3/20/91	KS
	A) Clean inside of Bolt Assembly			
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		3/20/91	KS
	C) Inspect Ejector Hole for Chamfer		3/20/91	KS
	D) Oil Firing Pin Ass'y		3/20/91	KS
	E) Adjust Trigger Pull to Min Setting and Stake		4/1/91	KA

op. #	OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	5	4 $\frac{3}{4}$	5			4-2-91	DH
	G) Safety Off Force	2	2	2			4-2-91	DH
	H) Trigger Pull Test & Retainability						4/1/91	8/
	I) Firing Pin Indent	.021	.022	.022			4-3-91	DH
	J) Assemble Stock						4/5/91	KS
	K) Assemble Swivel Studs						4-11-91	DH
	L) Attach Front and Rear Sight Assemblies						4/5/91	KS
	M) Iron Sight Alignment						4/5/91	KS
	N) Detach Front & Rear Sights & place in numbered container						4/5/91	KS
	O) Attach Scope to Rifle						4/5/91	KS
	P) Detach & Attach Scope 20 Times						4/5/91	KS
640	Gallery Target & Test						4-8-91	AC
	A) Time						4-8-91	AC
	B) Malfunctions						4-8-91	AC
	C) Pierced Primers						4-8-91	AC
	D) Optical Clarity of Scope						4-8-91	AC
645	Inspect for Live Ammo						4-8-91	AC
655	Final Inspection							
	A) Headspace						4-11-91	DH
	B) Trigger Pull	2.60	2.54	2.56	2.45	2.54	4/10/91	8/
	C) Function						4-11-91	DH
660	Pack						6-19-91	VF

MOD.		GA. CAL.	GUN #	1452
# TEST	DATE	MALFUNCTION/DEFECT		ASSEM. #
	1st	check cross hair alignment		KS
	2nd	Re-aligned sight		KS 48-91
	3rd			
	4th			
		FUNCTION		RD 6654 Rev 1

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

M2400077809

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. C6611492 250DATE 4/1/91TESTER [Signature]

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.45	2.30	2.50	2.60	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.45	2.24	2.38	2.54	
PULL #3	2.17	2.50	2.25	2.56	
PULL #4	2.34	2.20	2.50	2.45	
PULL #5	2.35	2.51	2.48	2.54	
TOTAL					
AVG.					

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.47	3.44		
PULL #2	3.40	3.27		
PULL #3	3.39	3.28		
PULL #4	3.34	3.23		
PULL #5	3.32	3.38		
TOTAL				
AVG.				

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.29	4.32		4.27
PULL #2	4.24	4.43		4.24
PULL #3	4.25	4.33		4.27
PULL #4	4.25	4.15		4.37
PULL #5	4.35	4.35		4.43
TOTAL				
AVG.				

INTERCHANGEABILITY

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6611492
23 May 1991

CENTROIDAL DISTANCES

Ø TO	1	.322568
1 TO	2	.263782
1 TO	3	.34754
1 TO	4	.34442
1 TO	5	.14758

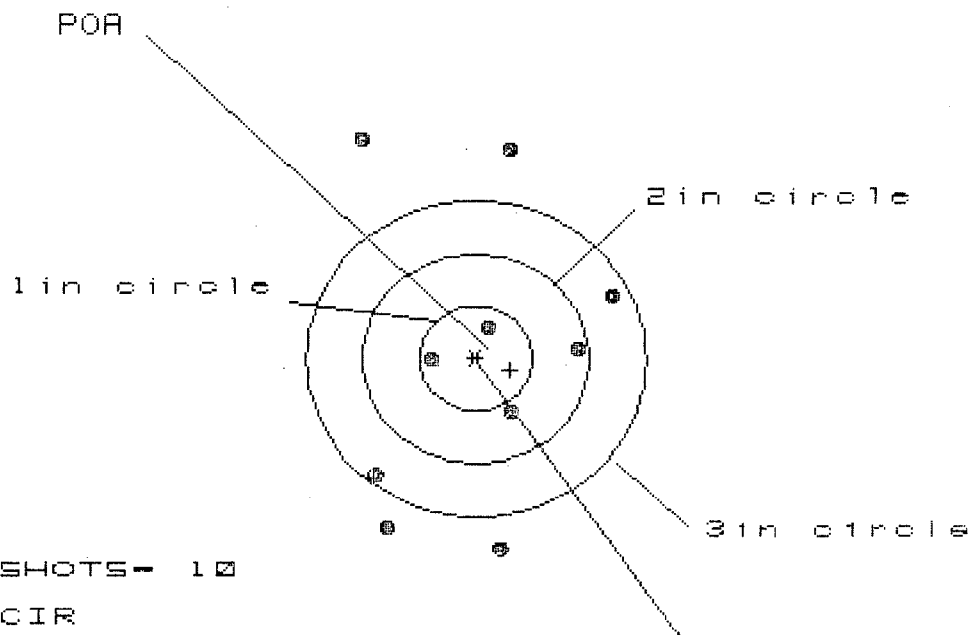
✱ <----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.1008
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .1428
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .174793
THE AMR FOR THIS RIFLE IS: .9858

23 May 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6B11492.1

CENTERFIRE PATTERNS # 1



OF SHOTS- 10

IN CIR

1in = 2

2in = 4

3in = 6

HS= 2.248

VS= 3.881

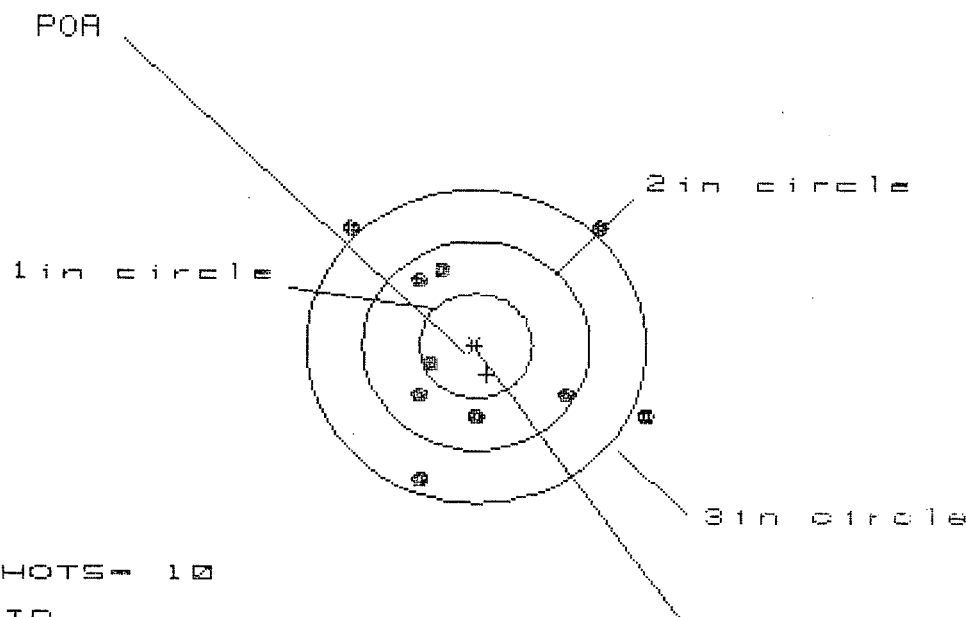
GS= 4.078

PATTERN #	:	1		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.220	1.106	1.134
MINIMUM X	:	-1.028	-.979	-.951
MAXIMUM Y	:	2.087	2.265	1.060
MINIMUM Y	:	-1.794	-1.562	-1.279
CENTROID X	:	-.305	-.191	-.219
CENTROID Y	:	.105	-.127	-.410
POA TO CENTROID in.	:	.322	.229	.465
MIN RADIUS	:	.279	.385	.242
MEAN RADIUS	:	1.297	1.165	1.018
MAX RADIUS	:	2.327	2.276	1.552
HORIZONTAL SPREAD	:	2.248	2.085	2.085
VERTICAL SPREAD	:	3.881	3.827	2.339
EXTREME SPREAD	:	4.078	3.829	2.943
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		4	
NUMBER IN THREE INCH CIRCLE	=		6	

23 May 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6B11492.1

CENTERFIRE PATTERNS # 2



OF SHOTS- 10

IN CIR

1 in = 1

2 in = 5

3 in = 7

HS= 2.612

VS= 2.390

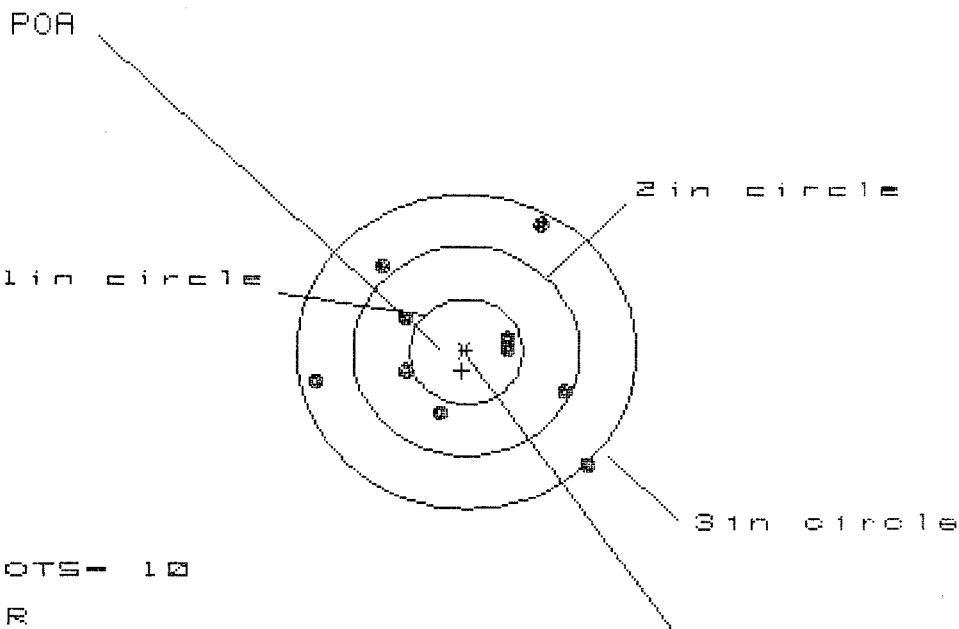
GS= 3.174

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.484	1.358	1.127
MINIMUM X	:	-1.128	-.635	-.465
MAXIMUM Y	:	1.166	1.243	1.179
MINIMUM Y	:	-1.224	-1.094	-1.158
CENTROID X	:	-.100	.026	-.144
CENTROID Y	:	.271	.141	.205
POA TO CENTROID in.	:	.289	.144	.250
MIN RADIUS	:	.447	.544	.385
MEAN RADIUS	:	1.033	.964	.871
MAX RADIUS	:	1.623	1.569	1.631
HORIZONTAL SPREAD	:	2.612	1.993	1.592
VERTICAL SPREAD	:	2.390	2.337	2.337
EXTREME SPREAD	:	3.174	2.828	2.828
NUMBER IN ONE INCH CIRCLE =			1	
NUMBER IN TWO INCH CIRCLE =			6	
NUMBER IN THREE INCH CIRCLE =			7	

23 May 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6611492.1

CENTERFIRE PATTERNS # 3



OF SHOTS- 10

IN CIR

1 in = 2

2 in = 6

3 in = 9

HS= 2.444

VS= 2.345

GS= 2.719

PATTERN #	:	3	9	8
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.095	.968	1.069
MINIMUM X	:	-1.349	-1.227	-1.126
MAXIMUM Y	:	1.218	1.093	.865
MINIMUM Y	:	-1.126	-.699	-.562
CENTROID X	:	.035	-.087	-.188
CENTROID Y	:	.177	.303	.166
POA TO CENTROID in.	:	.181	.315	.251
MIN RADIUS	:	.376	.449	.292
MEAN RADIUS	:	.898	.819	.733
MAX RADIUS	:	1.571	1.362	1.167
HORIZONTAL SPREAD	:	2.444	2.195	2.195
VERTICAL SPREAD	:	2.345	1.792	1.427
EXTREME SPREAD	:	2.719	2.554	2.197
NUMBER IN ONE INCH CIRCLE =	:	2		
NUMBER IN TWO INCH CIRCLE =	:	6		
NUMBER IN THREE INCH CIRCLE =	:	9		

23 May 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6611492.1

CENTERFIRE PATTERNS

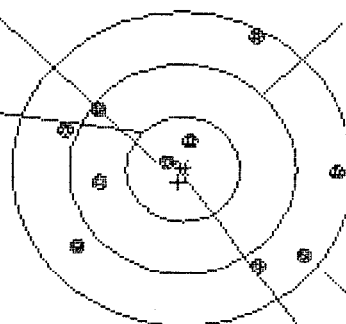
4

POA

1in circle

2in circle

3in circle



OF SHOTS = 10

IN CIR

1in = 2

2in = 4

3in = 10

HS = 2.387

VS = 2.185

GS = 2.517

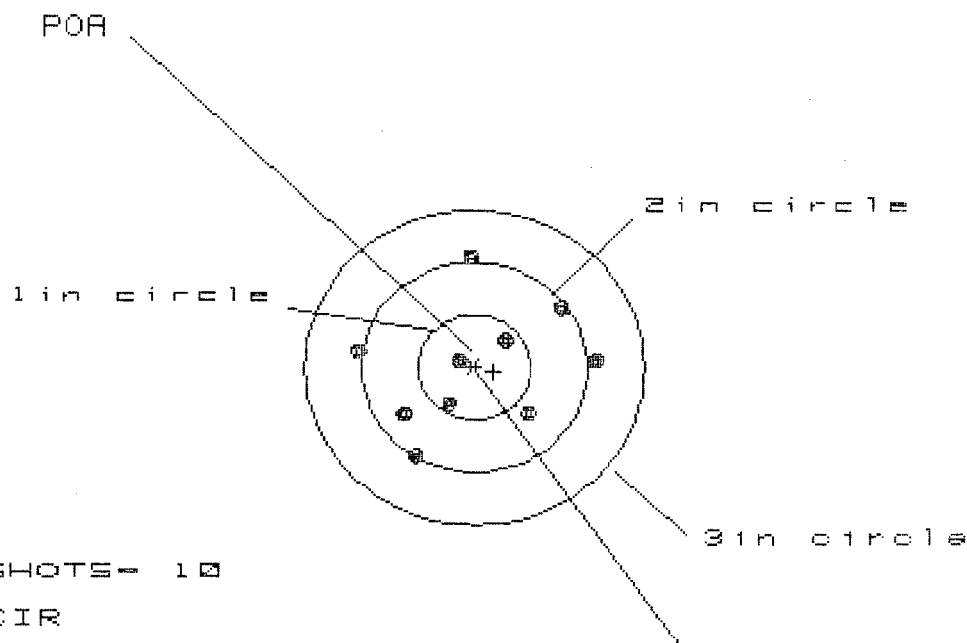
CENTROID #

PATTERN #	:	4	9	8
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.369	1.438	1.288
MINIMUM X	:	-1.018	-.949	-.770
MAXIMUM Y	:	1.259	.669	.689
MINIMUM Y	:	-.926	-.786	-.766
CENTROID X	:	.039	-.030	-.209
CENTROID Y	:	.122	-.018	-.038
POA TO CENTROID in.	:	.128	.035	.213
MIN RADIUS	:	.186	.215	.215
MEAN RADIUS	:	.966	.916	.820
MAX RADIUS	:	1.403	1.447	1.431
HORIZONTAL SPREAD	:	2.387	2.387	2.057
VERTICAL SPREAD	:	2.185	1.455	1.455
EXTREME SPREAD	:	2.517	2.433	2.347
NUMBER IN ONE INCH CIRCLE	=	2		
NUMBER IN TWO INCH CIRCLE	=	4		
NUMBER IN THREE INCH CIRCLE	=	10		

23 May 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6611492.1

CENTERFIRE PATTERNS # 5



OF SHOTS- 10

IN CIR

1 in - 3

2 in - 7

3 in - 10

HS- 2.103

VS- 1.846

GS- 2.106

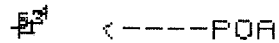
CENTROID *

PATTERN #	5	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.041	.923	.785
MINIMUM X	-1.062	-.729	-.614
MAXIMUM Y	1.021	1.038	1.046
MINIMUM Y	-.825	-.808	-.800
CENTROID X	-.173	-.055	-.170
CENTROID Y	.039	.022	.014
POA TO CENTROID in.	.177	.059	.171
MIN RADIUS	.098	.217	.109
MEAN RADIUS	.735	.698	.654
MAX RADIUS	1.074	1.056	1.049
HORIZONTAL SPREAD	2.103	1.652	1.399
VERTICAL SPREAD	1.846	1.846	1.846
EXTREME SPREAD	2.106	1.896	1.896
NUMBER IN ONE INCH CIRCLE =	3		
NUMBER IN TWO INCH CIRCLE =	7		
NUMBER IN THREE INCH CIRCLE =	10		

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6611492
8 Apr 1991

CENTROIDAL DISTANCES

0 TO	1	.237565
1 TO	2	.138279
1 TO	3	.200025
1 TO	4	.356587
1 TO	5	.19238

 <----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .247
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .1626
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .295716

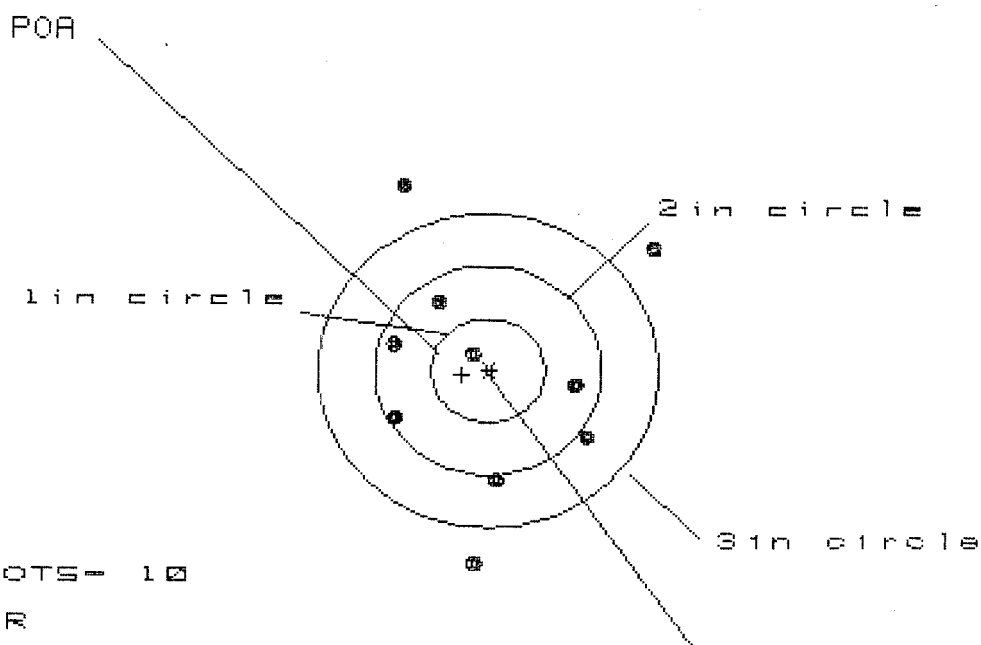
THE AMR FOR THIS RIFLE IS: 1.025

8 Apr 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6611492

CENTERFIRE PATTERNS

1



OF SHOTS- 10

IN CIR

1 in = 1

2 in = 5

3 in = 7

HS= 2.297

VS= 3.638

GS= 3.693

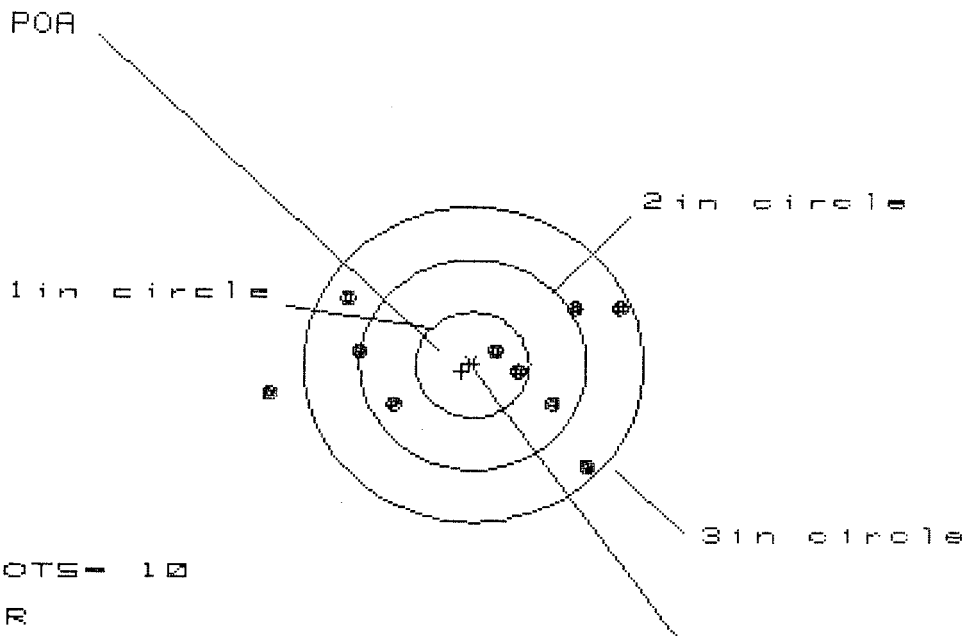
CENTROID #

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.456	1.376	1.355
MINIMUM X	-.841	-.921	-.942
MAXIMUM Y	1.782	1.323	1.116
MINIMUM Y	-1.856	-1.658	-1.023
CENTROID X	.234	.314	.335
CENTROID Y	.041	-.157	.050
POA TO CENTROID in.	.237	.351	.338
MIN RADIUS	.243	.451	.313
MEAN RADIUS	1.134	1.045	.953
MAX RADIUS	1.923	1.909	1.756
HORIZONTAL SPREAD	2.297	2.297	2.297
VERTICAL SPREAD	3.638	2.981	2.139
EXTREME SPREAD	3.693	3.356	2.775
NUMBER IN ONE INCH CIRCLE =	1		
NUMBER IN TWO INCH CIRCLE =	5		
NUMBER IN THREE INCH CIRCLE =	7		

8 Apr 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6611492

CENTERFIRE PATTERNS # 2



OF SHOTS- 10

IN CIR

1 in = 2

2 in = 4

3 in = 9

HS= 3.130

VS= 1.574

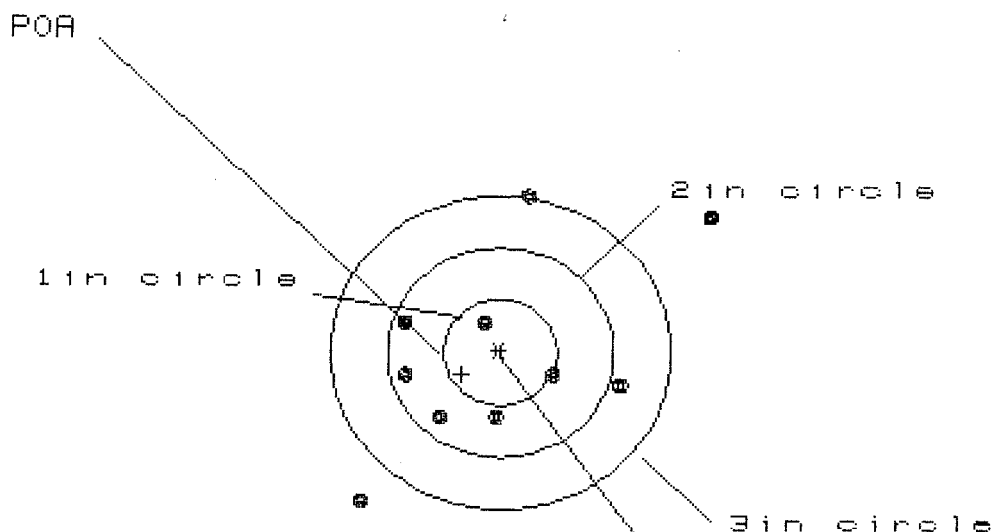
GS= 3.239

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.346	1.148	.912
MINIMUM X	:	-1.784	-1.248	-1.105
MAXIMUM Y	:	.612	.580	.645
MINIMUM Y	:	-.962	-.994	-.929
CENTROID X	:	.098	.296	.153
CENTROID Y	:	.066	.098	.033
POA TO CENTROID in.	:	.118	.312	.156
MIN RADIUS	:	.268	.122	.248
MEAN RADIUS	:	1.007	.869	.841
MAX RADIUS	:	1.807	1.376	1.302
HORIZONTAL SPREAD	:	3.130	2.396	2.017
VERTICAL SPREAD	:	1.574	1.574	1.574
EXTREME SPREAD	:	3.239	2.558	2.558
NUMBER IN ONE INCH CIRCLE =			2	
NUMBER IN TWO INCH CIRCLE =			4	
NUMBER IN THREE INCH CIRCLE =			9	

8 Apr 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6611492

CENTERFIRE PATTERNS # 3



OF SHOTS- 10

IN CIR

1in = 1

2in = 5

3in = 8

HS= 3.039

VS= 2.872

GS= 4.086

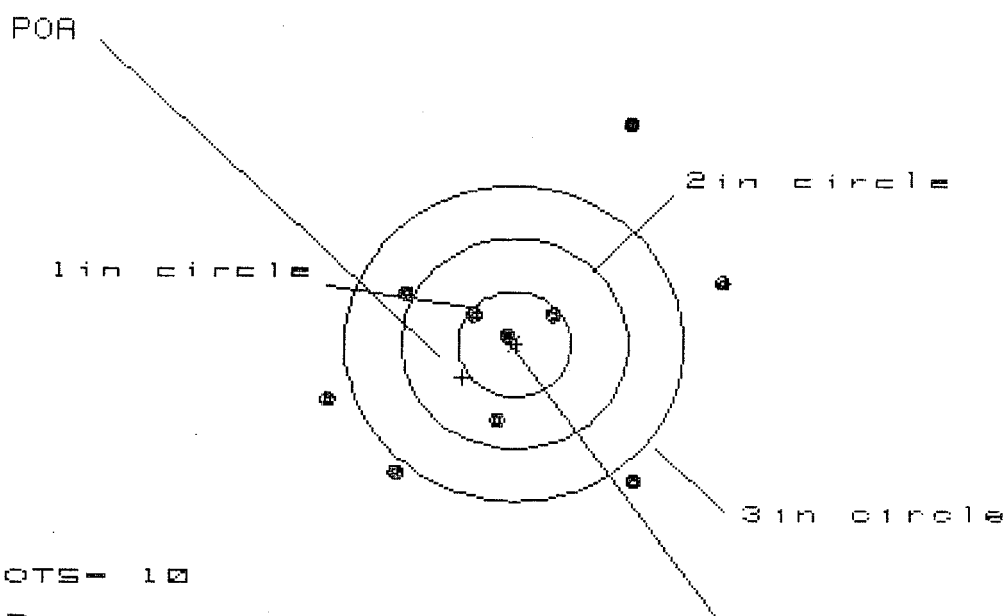
CENTROID *

PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.816	1.268	1.141
MINIMUM X	:	-1.223	-1.022	-.777
MAXIMUM Y	:	1.475	1.624	1.468
MINIMUM Y	:	-1.397	-1.248	-.656
CENTROID X	:	.341	.140	.267
CENTROID Y	:	.210	.061	.217
POR TO CENTROID in.	:	.401	.153	.345
MIN RADIUS	:	.325	.465	.301
MEAN RADIUS	:	1.080	.915	.830
MAX RADIUS	:	2.254	1.681	1.499
HORIZONTAL SPREAD	:	3.039	2.290	1.918
VERTICAL SPREAD	:	2.872	2.872	2.124
EXTREME SPREAD	:	4.086	3.220	2.244
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		6	
NUMBER IN THREE INCH CIRCLE	=		8	

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CENTERFIRE PATTERNS # 4



OF SHOTS- 10

IN CIR

1in = 3

2in = 4

3in = 5

HS= 3.500

VS= 3.411

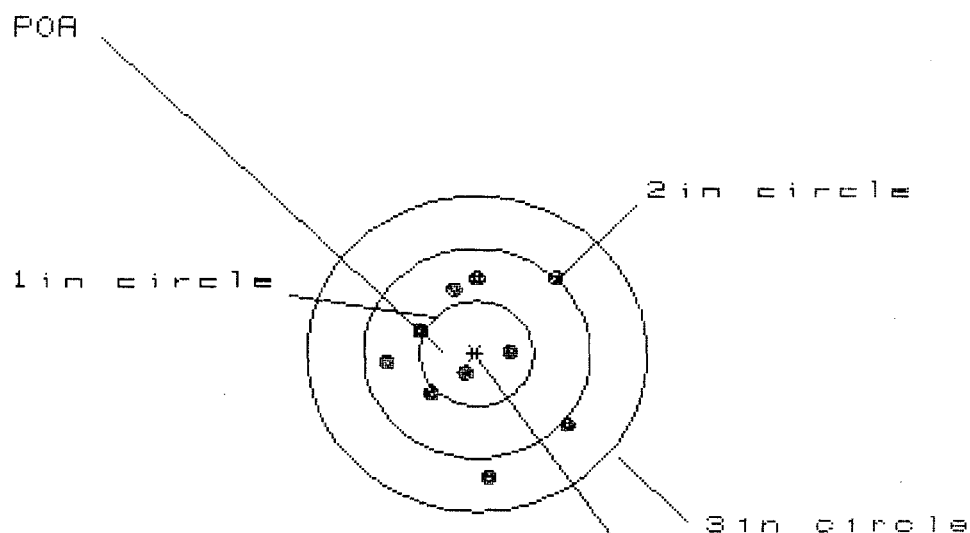
GS= 3.910

PATTERN #	:	4	9	8
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.819	1.936	1.404
MINIMUM X	:	-1.681	-1.564	-1.322
MAXIMUM Y	:	2.097	.808	.772
MINIMUM Y	:	-1.314	-1.081	-.980
CENTROID X	:	.461	.344	.102
CENTROID Y	:	.316	.083	-.018
POA TO CENTROID in.	:	.559	.354	.104
MIN RADIUS	:	.086	.276	.412
MEAN RADIUS	:	1.207	1.082	.951
MAX RADIUS	:	2.346	2.097	1.712
HORIZONTAL SPREAD	:	3.500	3.500	2.726
VERTICAL SPREAD	:	3.411	1.889	1.752
EXTREME SPREAD	:	3.910	3.663	2.843
NUMBER IN ONE INCH CIRCLE =	:	3		
NUMBER IN TWO INCH CIRCLE =	:	4		
NUMBER IN THREE INCH CIRCLE =	:	5		

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CENTERFIRE PATTERNS # 5



OF SHOTS- 10

IN CIR

1 in - 2

2 in - 8

3 in - 10

HS- 1.597

VS- 1.936

GS- 1.973

PATTERN #	5	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.819	.833	.783
MINIMUM X	-.779	-.764	-.660
MAXIMUM Y	.767	.637	.538
MINIMUM Y	-1.169	-.793	-.564
CENTROID X	.101	.086	-.018
CENTROID Y	.180	.310	.409
POA TO CENTROID in.	.206	.321	.409
MIN RADIUS	.157	.279	.362
MEAN RADIUS	.696	.638	.562
MAX RADIUS	1.176	1.150	.931
HORIZONTAL SPREAD	1.597	1.597	1.443
VERTICAL SPREAD	1.936	1.430	1.102
EXTREME SPREAD	1.973	1.711	1.640
NUMBER IN ONE INCH CIRCLE =	2		
NUMBER IN TWO INCH CIRCLE =	8		
NUMBER IN THREE INCH CIRCLE =	10		