

C6225228

MODEL 700TM M24

Model **SMS** TM

Action

Barrel Length

Capacity

Order No. **5716**

*Includes 1 in chamber.



Arms Services Repair & Estimate System

File Add Repair Estimate Repair Expedite Repair Inquiry Repair Tools CSR Tools Reports Table Maintenance System Maintenance Help

Repair Inquiry

Repair Number: **RE00087055** Serial: C6225228 Model: M24 SWS Center Fire Caliber: 7.62 NATO Repairman: Status: Closed 10/27/2004 8:28:29 AM

Verify Repair

Address Information

Customer: Received From: Return To: Received From:

Name: **ELECTRONIC MAIN SHOP GSC 10TH DIV** **ELECTRONIC MAIN SHOP GSC 10TH DIV**

Address 1: **ATTN MSG BARTRON SPC LAUBAUGH** **ATTN MSG BARTRON SPC LAUBAUGH**

Address 2: **BLDG 7426 RM 203 BAD TOELZ** **BLDG 7426 RM 203 BAD TOELZ** PO Box:

City: **FORT CARSON** **FORT CARSON**

State: **CO** Zip Code: **80913** Country: **US** State: **CO** Zip Code: **80913** Country: **US**

FFL:

Contact / Condition Problems Estimate History / Status Shipping / Billing

Contact Information: Phone: Fax: Email: Comments:

Received Condition: Good Condition Notes: CSR Notes:

Accessories Received:

Code	Desc	Qty
A007	With Stud	3
C000	F AND R SGT BASES	2

Repair Search Refresh Close

negletj 10/27/2004 10:19 AM CAPS NUM INS SCPL

start 3 2 CM

Serial Number: **C6225228**

Model: **M24 SWS**



RE00087055

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6225228.___0
FILE DATE AND TIME: 11/12/2004 09:15

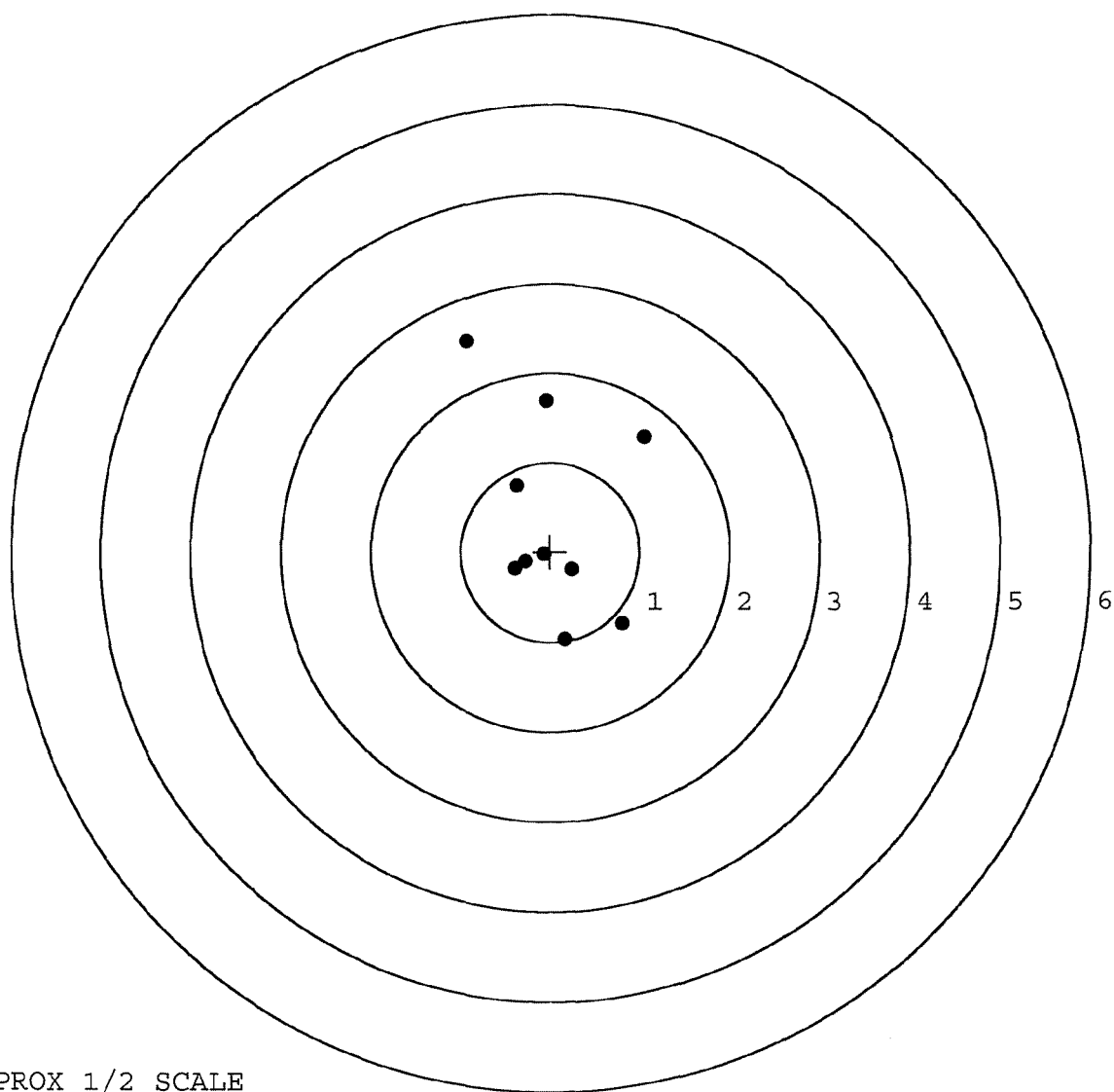
THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	0.010
The Average Y Centroid of the Five Target Set:	0.092
The Average Point of Impact of the Five Target Set:	0.093
The Average Mean Radius of the Five Target Set:	0.747
The Distance from POA to Centroid Target #1:	0.377
The Distance from Centroid Target #2 to Centroid Target #1:	0.389
The Distance from Centroid Target #3 to Centroid Target #1:	0.279
The Distance from Centroid Target #4 to Centroid Target #1:	0.278
The Distance from Centroid Target #5 to Centroid Target #1:	0.480

SERIAL NUMBER: C6225228. __0
TARGET NUMBER: 1
FILE DATE: 11/12/2004
FILE TIME: 09:15

POINT#	X	Y
1:	0.801	-0.800
2:	0.165	-0.977
3:	0.243	-0.205
4:	-0.068	-0.027
5:	-0.275	-0.113
6:	-0.397	-0.192
7:	-0.379	0.743
8:	1.057	1.284
9:	-0.050	1.693
10:	-0.938	2.357

X CENTROID: 0.016
Y CENTROID: 0.376
POA TO CENTROID: 0.377
HORZ SPREAD: 1.995
VERT SPREAD: 3.334
GROUP SPREAD: 3.604
MIN RADIUS: 0.412
MAX RADIUS: 2.198
MEAN RADIUS: 1.052
IN 1 IN DIAMETER: 1
IN 2 IN DIAMETER: 5
in 3 IN DIAMETER: 9

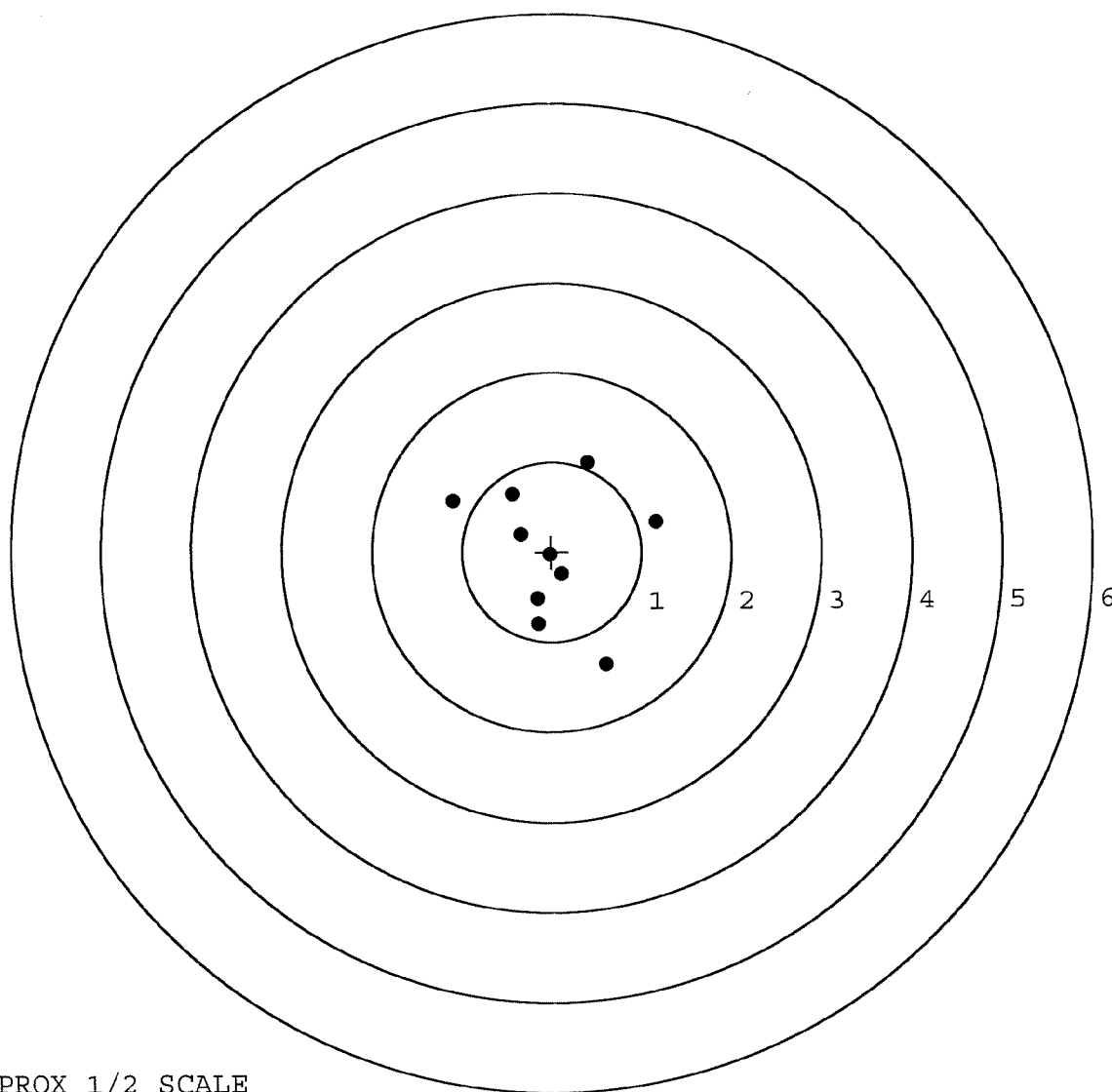


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6225228.___0
TARGET NUMBER: 2
FILE DATE: 11/12/2004
FILE TIME: 09:15

X CENTROID: 0.007
Y CENTROID: -0.013
POA TO CENTROID: 0.015
HORZ SPREAD: 2.263
VERT SPREAD: 2.244
GROUP SPREAD: 2.499
MIN RADIUS: 0.037
MAX RADIUS: 1.377
MEAN RADIUS: 0.776
IN 1 IN DIAMETER: 3
IN 2 IN DIAMETER: 6
in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.602	-1.255
2:	1.166	0.329
3:	0.411	0.989
4:	-0.439	0.642
5:	-1.097	0.578
6:	-0.341	0.199
7:	-0.154	-0.803
8:	-0.163	-0.525
9:	0.113	-0.248
10:	-0.024	-0.032

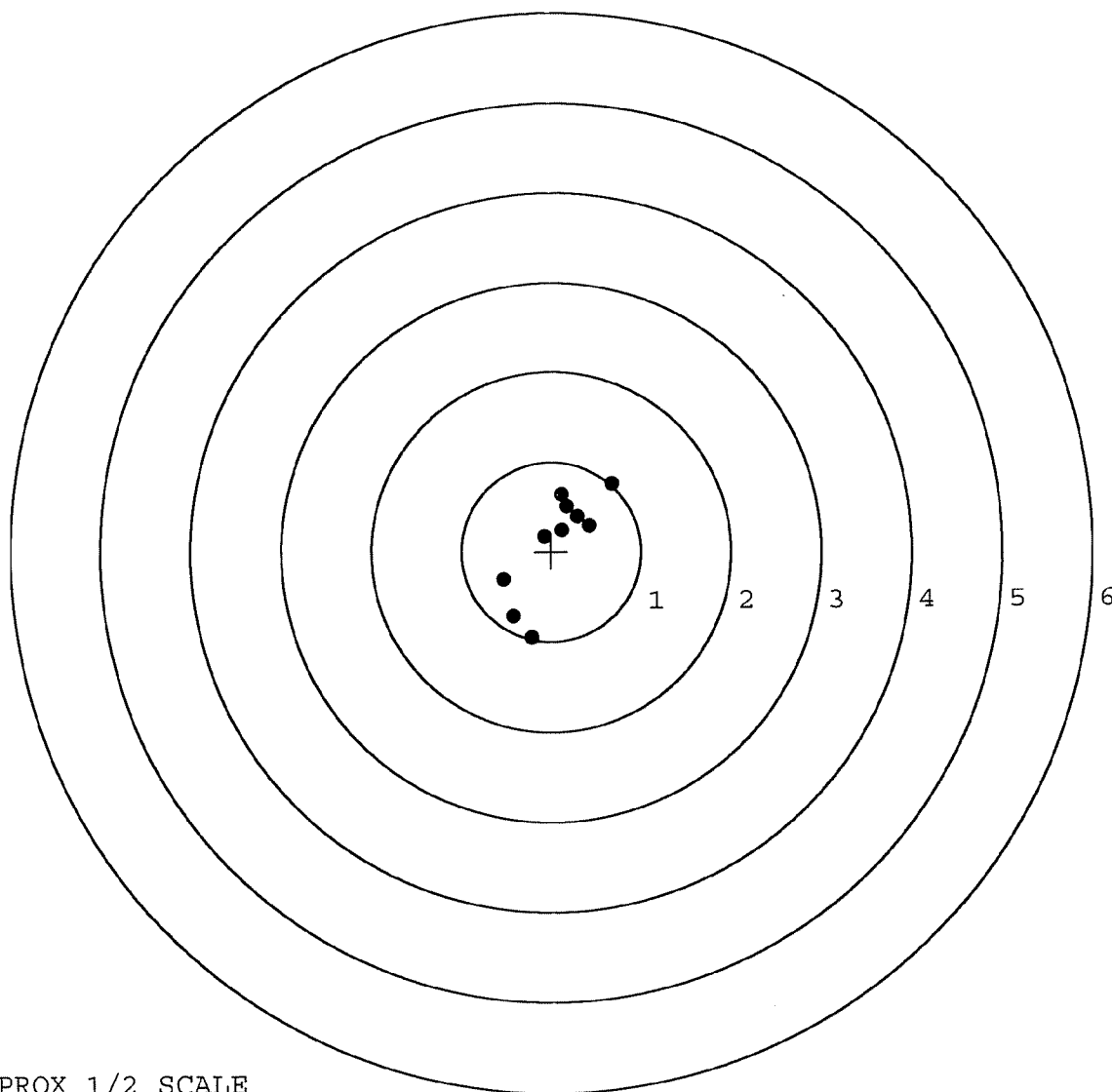


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6225228.___0
TARGET NUMBER: 3
FILE DATE: 11/12/2004
FILE TIME: 09:15

POINT#	X	Y
1:	-0.223	-0.960
2:	-0.433	-0.721
3:	-0.534	-0.309
4:	-0.079	0.172
5:	0.124	0.638
6:	0.683	0.754
7:	0.296	0.390
8:	0.431	0.291
9:	0.123	0.238
10:	0.178	0.506

X CENTROID: 0.057
Y CENTROID: 0.100
POA TO CENTROID: 0.115
HORZ SPREAD: 1.217
VERT SPREAD: 1.714
GROUP SPREAD: 1.939
MIN RADIUS: 0.153
MAX RADIUS: 1.096
MEAN RADIUS: 0.575
IN 1 IN DIAMETER: 5
IN 2 IN DIAMETER: 9
in 3 IN DIAMETER: 10

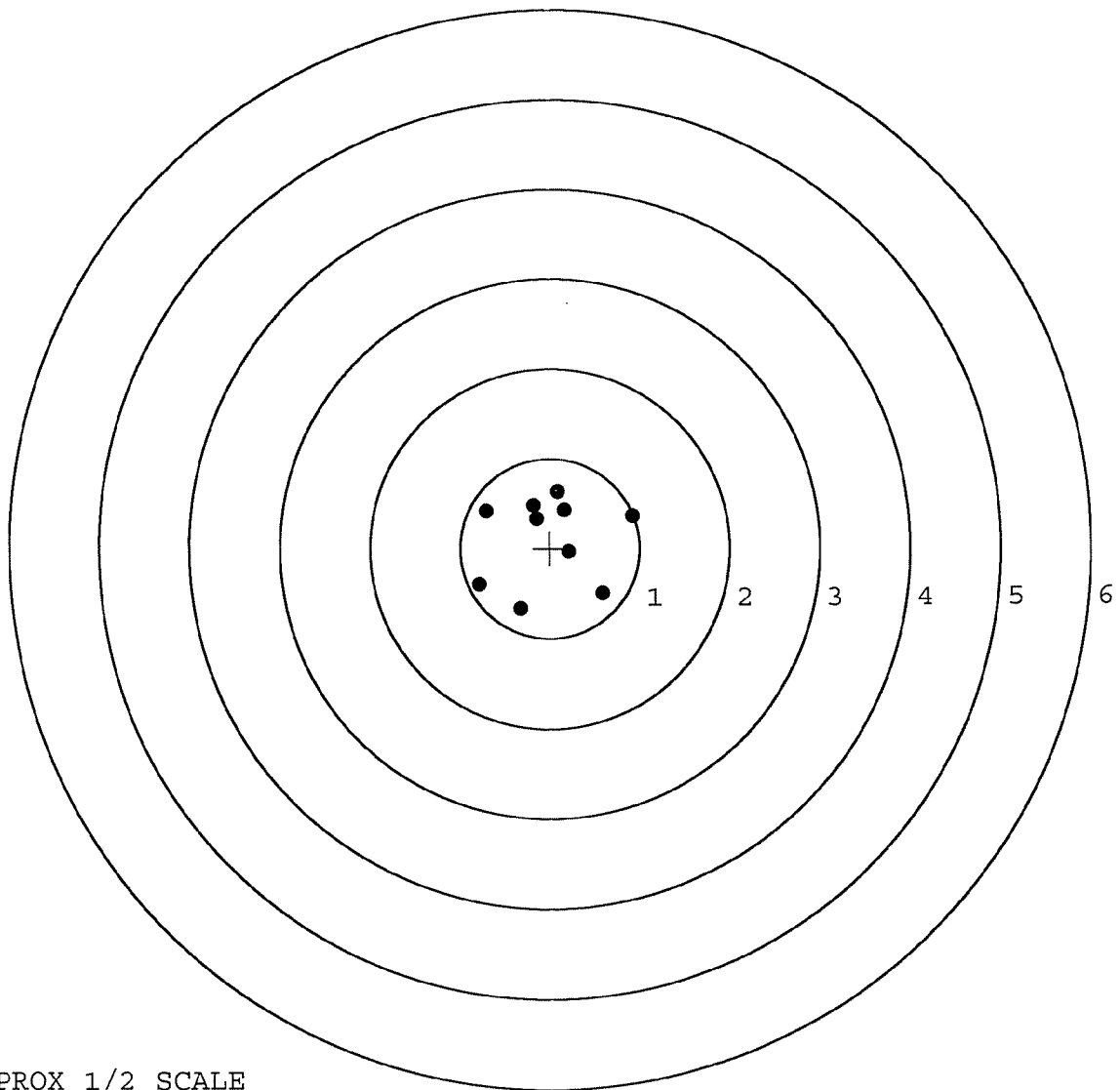


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6225228. __0
TARGET NUMBER: 4
FILE DATE: 11/12/2004
FILE TIME: 09:15

X CENTROID: -0.018
Y CENTROID: 0.100
POA TO CENTROID: 0.102
HORZ SPREAD: 1.714
VERT SPREAD: 1.303
GROUP SPREAD: 1.873
MIN RADIUS: 0.263
MAX RADIUS: 0.977
MEAN RADIUS: 0.621
IN 1 IN DIAMETER: 4
IN 2 IN DIAMETER: 10
in 3 IN DIAMETER: 10

POINT#	X	Y
1:	-0.333	-0.676
2:	-0.789	-0.400
3:	0.590	-0.510
4:	0.925	0.356
5:	0.213	-0.045
6:	-0.707	0.420
7:	-0.149	0.329
8:	-0.186	0.479
9:	0.166	0.422
10:	0.087	0.627

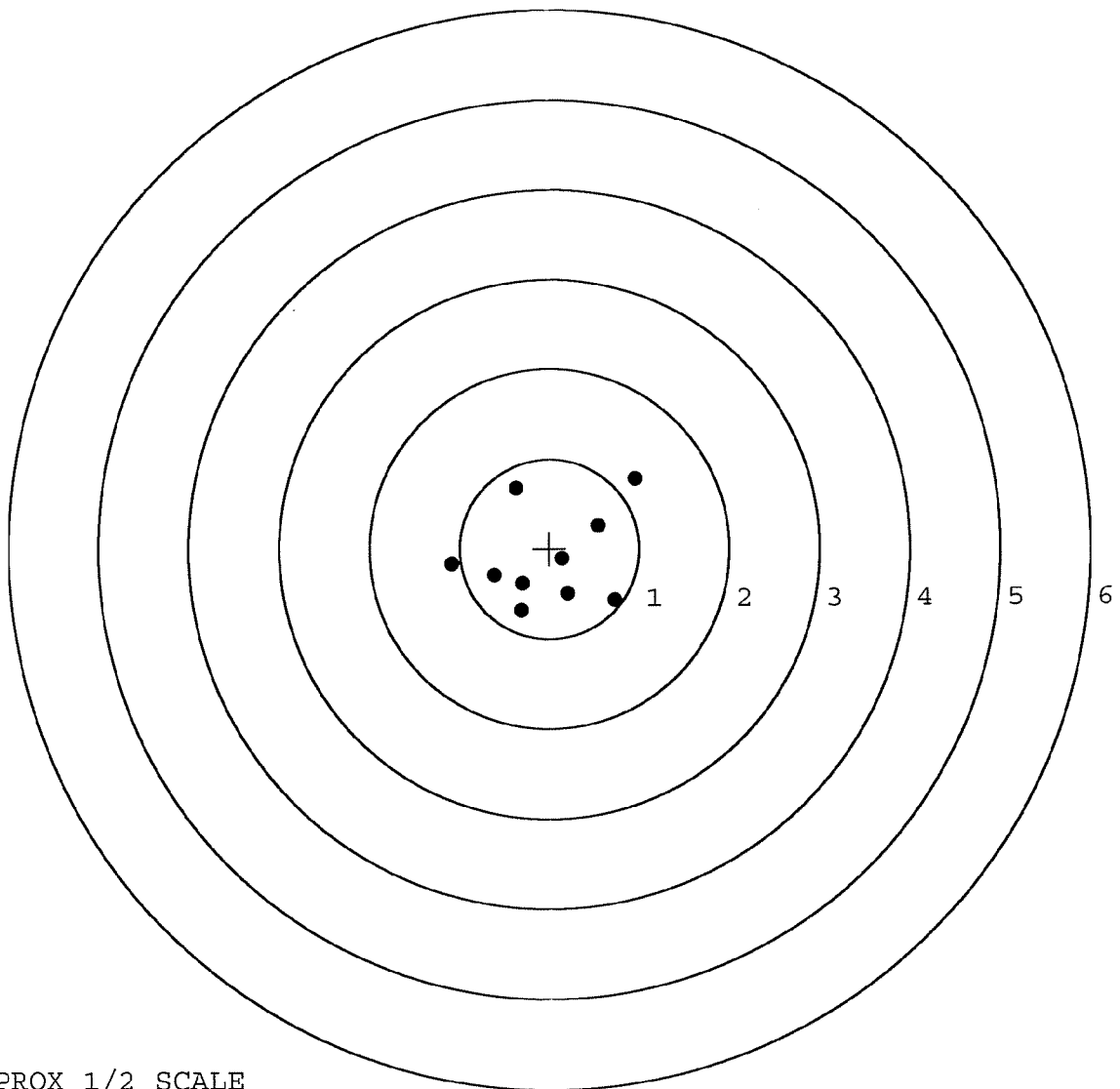


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6225228.___0
 TARGET NUMBER: 5
 FILE DATE: 11/12/2004
 FILE TIME: 09:15

POINT#	X	Y
1:	0.958	0.778
2:	0.548	0.257
3:	-0.367	0.674
4:	0.143	-0.114
5:	0.200	-0.503
6:	0.731	-0.576
7:	-1.092	-0.170
8:	-0.618	-0.295
9:	-0.306	-0.392
10:	-0.319	-0.688

X CENTROID: -0.012
 Y CENTROID: -0.103
 POA TO CENTROID: 0.104
 HORZ SPREAD: 2.050
 VERT SPREAD: 1.466
 GROUP SPREAD: 2.259
 MIN RADIUS: 0.156
 MAX RADIUS: 1.310
 MEAN RADIUS: 0.711
 # IN 1 IN DIAMETER: 3
 # IN 2 IN DIAMETER: 8
 # in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

M-24 INSPECTION CHECKLIST
CONTRACT #: DAAE-20-02-D-0127

R & E NUMBER	87055		
SERIAL NUMBER	C-6225228		
LOG-IN DATE	10-27-04		
INSPECT AND VERIFY:			
OPERATION #	OPERATION NAME	DATE	INITIAL
550	DIS-ASSEMBLE GUN	10/29/04	DA
560 A	RE-BARREL	11-2-04	RTL
B	DRILL AND TAP	11-4-04	TRW
575	ASSEMBLE	11-2-04	RTL
600	PROOF	11-3-04	RTL
605	CHECK HEADSPACE	11-3-04	RTL
610	DIS-ASSEMBLE GUN	11-4-04	RTL
612	MAGNAFLUX		
615	ROLLMARK CALIBER	11/5/04	13
618	ROTO-BLAST	11-6-04	CB
620	APPLY COATINGS	11/9	HP
625 A	FINAL ASSEMBLY	11-12-04	RTL
B	TRIGGER PULL TEST	N/A	N/A
C	SAFETY "ON" FORCE		
D	SAFETY "OFF" FORCE		
E	FIRING PIN INDENT		
640	TARGET	11-12-04	TRW
655	FINAL INSPECT	11-17-04	AC
660	PACK	11-18-04	DA
		SHIP DATE	
		QAR INSPECTION DATE	

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6225228

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	4 21	89	RW
600	Proof	4 21	89	RW
607	Check Headspace	4 21	89	RW
610	Dis-assemble Gun	4 21	89	RW
612	Magnaflux Barrel Action		4/26	KCR
	Magnaflux Bolt		4/27	KCR
615	Rollmark Caliber		4/27	BS
617	Drill and Tap Sight Holes	4 27	89	FB
618	Polish Barrel RB	4 27	89	BT
620	Apply Coatings (Barrel Action)		5/2/89	THA
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		5/17/89	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		5/17/89	RW
	C) Inspect Ejector Hole for Chamfer		5/17/89	RW
	D) Oil Firing Pin Ass'y		5/17/89	RW
	E) Adjust Trigger Pull to Min Setting and Stake		5/24/89	WCB

op. #	OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	4 1/4	4 1/4	4			5/25/89	WB
	G) Safety Off Force	3 1/2	3 1/4	3 3/4			5/25/89	WB
	H) Trigger Pull Test & Retainability						5/24/89	WB
	I) Firing Pin Indent	.0215	.0218	.0217			5/25/89	WB
	J) Assemble Stock						5/25/89	RW
	K) Assemble Swivel Studs						31 May 89	JS
	L) Attach Front and Rear Sight Assemblies						5/25/89	RW
	M) Iron Sight Alignment						5/25/89	RW
	N) Detach Front & Rear Sights & place in numbered container						5/25/89	RW
	O) Attach Scope to Rifle						5/25/89	WB
	P) Detach & Attach Scope 20 Times						5/25/89	WB
640	Gallery Target & Test	62R	89L				5-30-89	AC
	A) Time						"	AC
	B) Malfunctions						"	AC
	C) Pierced Primers						"	AC
	D) Optical Clarity of Scope						"	AC
645	Inspect for Live Ammo						5-30-89	AC
655	Final Inspection							
	A) Headspace						31 May 89	JS
	B) Trigger Pull	2.53	2.50	2.56	2.54	2.53	31 May 89	JS
	C) Function						31 May 89	JS
660	Pack						27 June 89	JS

SWS TRIGGER PULL TEST

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

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

SERIAL NO. 5328
6348754

DATE 20 Oct 89

TESTER JD

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	243	229	218	286	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	234	229	217	277	
PULL #3	234	229	222	288	
PULL #4	235	230	220	281	
PULL #5	231	227	227	268	
TOTAL	1177	1144	1104	1700	
AVG.	2.354	2.288	2.208	2.80	

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	341	342		
PULL #2	339	345		
PULL #3	341	340		
PULL #4	338	334		
PULL #5	339	338		
TOTAL	1701	1699		
AVG.	3.402	3.398		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	398	404		3.88
PULL #2	390	399		3.82
PULL #3	397	399		3.90
PULL #4	395	403		3.88
PULL #5	400	404		3.86
TOTAL	1980	2009		1934
AVG.	3.96	4.018		3.868

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6225228
1 Jun 1989

CENTROIDAL DISTANCES

0 TO	1	.178025
1 TO	2	.133645
1 TO	3	.469473
1 TO	4	.463026
1 TO	5	.484228

$\frac{1}{5}$ <----POA
5⁴

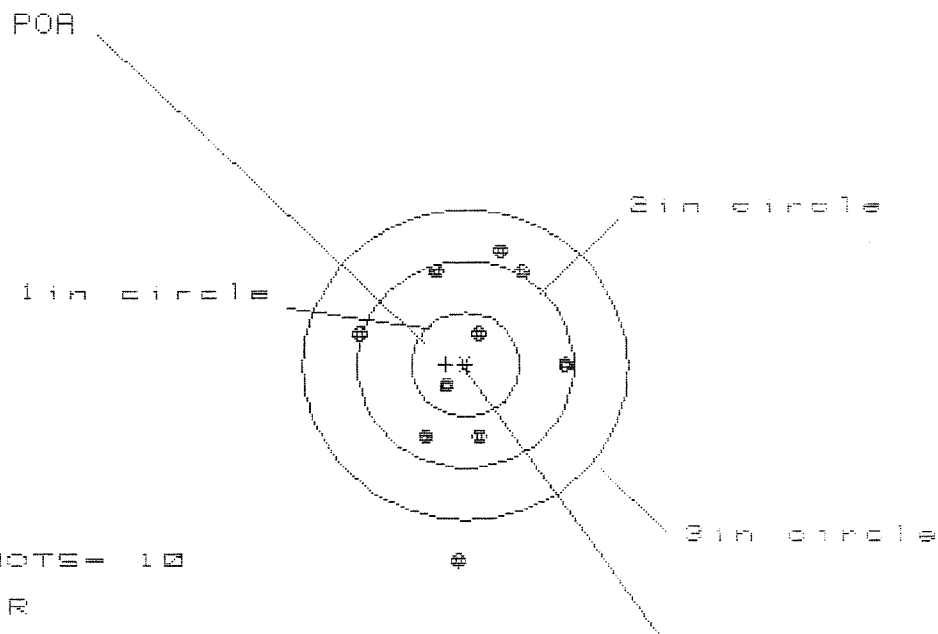
THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .2112
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.2906
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .359241

THE AMR FOR THIS RIFLE IS: .864

30 May 1989

FILE:/PATTERNING/CENTERFIRE_PATT/C6225228

CENTERFIRE PATTERNS # 1



OF SHOTS- 10

IN CIR

1 in - 2

2 in - 6

3 in - 9

HS- 1.955

VS- 3.001

GS- 3.030

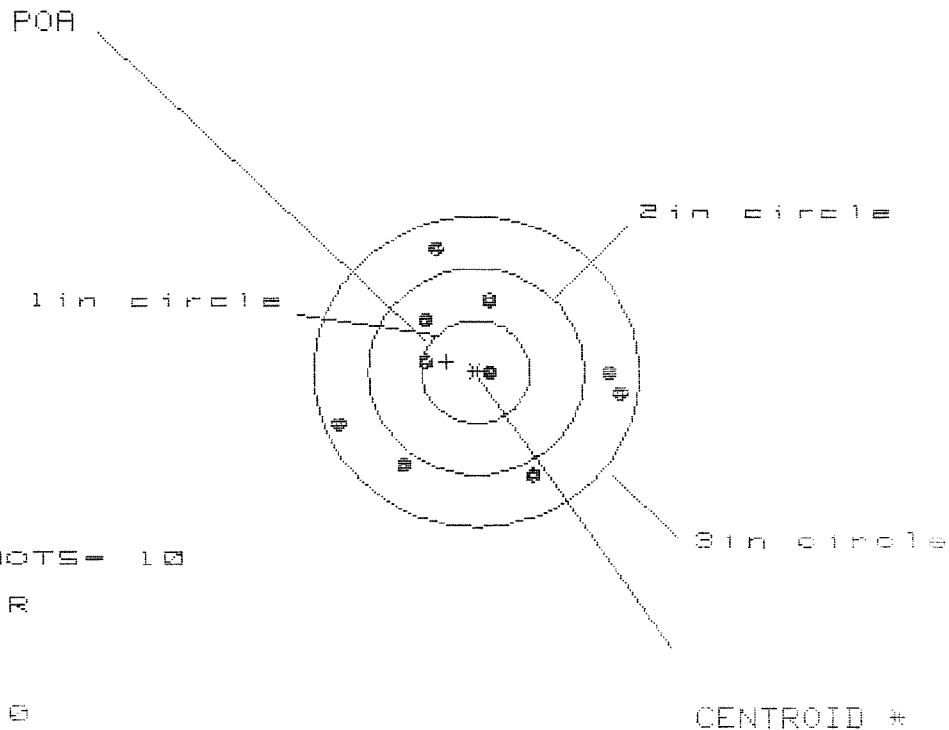
CENTROID *

PATTERN #	:	1		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.931	.919	.956
MINIMUM X	:	-1.024	-1.036	-.999
MAXIMUM Y	:	1.072	.858	.825
MINIMUM Y	:	-1.929	-.949	-.842
CENTROID X	:	.178	.190	.153
CENTROID Y	:	-.003	.211	.104
POA TO CENTROID in.	:	.178	.284	.185
MIN RADIUS	:	.314	.173	.283
MEAN RADIUS	:	.928	.793	.776
MAX RADIUS	:	1.932	1.041	1.020
HORIZONTAL SPREAD	:	1.955	1.955	1.955
VERTICAL SPREAD	:	3.001	1.807	1.667
EXTREME SPREAD	:	3.030	1.978	1.978
NUMBER IN ONE INCH CIRCLE =			2	
NUMBER IN TWO INCH CIRCLE =			6	
NUMBER IN THREE INCH CIRCLE =			9	

30 May 1989

FILE:/PATTERNING/CENTERFIRE_PATT/06225228

CENTERFIRE PATTERNS # 2



OF SHOTS- 10

IN CIR

1 in = 2

2 in = 4

3 in = 10

HS= 2.597

VS= 2.252

GS= 2.610

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.314	1.171	1.191
MINIMUM X	:	-1.283	-.818	-.672
MAXIMUM Y	:	1.219	1.167	1.136
MINIMUM Y	:	-1.033	-1.085	-1.116
CENTROID X	:	.272	.415	.269
CENTROID Y	:	-.098	-.046	-.015
POA TO CENTROID in.	:	.289	.418	.269
MIN RADIUS	:	.161	.044	.180
MEAN RADIUS	:	.946	.887	.836
MAX RADIUS	:	1.364	1.295	1.238
HORIZONTAL SPREAD	:	2.597	1.989	1.863
VERTICAL SPREAD	:	2.252	2.252	2.252
EXTREME SPREAD	:	2.610	2.444	2.444
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		4	
NUMBER IN THREE INCH CIRCLE	=		10	

30 May 1989

FILE:/PATTERNING/CENTERFIRE_PATT/CG225228

CENTERFIRE PATTERNS # 3

POA

1 in circle

2 in circle

3 in circle

CENTROID *

OF SHOTS- 10

IN CIR

1 in = 2

2 in = 4

3 in = 10

HS= 1.820

VS= 2.510

GS= 2.512

PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.799	.783	.653
MINIMUM X	:	-1.021	-1.037	-1.021
MAXIMUM Y	:	1.404	1.121	1.032
MINIMUM Y	:	-1.106	-.950	-1.039
CENTROID X	:	.121	.137	.267
CENTROID Y	:	-.469	-.625	-.536
POA TO CENTROID in.	:	.484	.640	.599
MIN RADIUS	:	.306	.211	.367
MEAN RADIUS	:	.963	.897	.838
MAX RADIUS	:	1.411	1.284	1.320
HORIZONTAL SPREAD	:	1.820	1.820	1.674
VERTICAL SPREAD	:	2.510	2.071	2.071
EXTREME SPREAD	:	2.512	2.305	2.305
NUMBER IN ONE INCH CIRCLE =			2	
NUMBER IN TWO INCH CIRCLE =			4	
NUMBER IN THREE INCH CIRCLE =			10	

38 May 1989

FILE:/PATTERNING/CENTERFIRE_PATT/06225228

CENTERFIRE PATTERNS

4

POA

1 in circle

2 in circle

3 in circle

OF SHOTS- 10

IN CIR

1 in = 4

2 in = 8

3 in = 10

HS= 1.675

VS= 1.890

GS= 2.033

CENTROID *

PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.771	.671	.633
MINIMUM X	:	-.904	-.925	-.963
MAXIMUM Y	:	1.040	1.113	.468
MINIMUM Y	:	-.850	-.777	-.638
CENTROID X	:	.406	.506	.544
CENTROID Y	:	-.406	-.479	-.618
POA TO CENTROID in.	:	.574	.697	.823
MIN RADIUS	:	.267	.184	.054
MEAN RADIUS	:	.684	.614	.531
MAX RADIUS	:	1.119	1.153	1.009
HORIZONTAL SPREAD	:	1.675	1.596	1.596
VERTICAL SPREAD	:	1.890	1.890	1.106
EXTREME SPREAD	:	2.033	1.903	1.637
NUMBER IN ONE INCH CIRCLE =			4	
NUMBER IN TWO INCH CIRCLE =			8	
NUMBER IN THREE INCH CIRCLE =			10	

30 May 1989

FILE:/PATTERNING/CENTERFIRE_PATT/C6225228

CENTERFIRE PATTERNS # 5

POA

1 in circle

2 in circle

3 in circle

CENTROID *

OF SHOTS = 10

IN CIR

1 in = 3

2 in = 7

3 in = 9

HS = 2.194

VS = 2.171

GS = 2.373

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.016	.885	.841
MINIMUM X	:	-1.178	-.616	-.660
MAXIMUM Y	:	1.238	1.134	.724
MINIMUM Y	:	-.933	-.865	-.723
CENTROID X	:	.079	.210	.254
CENTROID Y	:	-.477	-.373	-.515
POA TO CENTROID in.	:	.484	.428	.574
MIN RADIUS	:	.246	.337	.250
MEAN RADIUS	:	.799	.708	.634
MAX RADIUS	:	1.503	1.193	1.068
HORIZONTAL SPREAD	:	2.194	1.501	1.501
VERTICAL SPREAD	:	2.171	1.999	1.447
EXTREME SPREAD	:	2.373	2.296	1.831
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		7	
NUMBER IN THREE INCH CIRCLE	=		9	




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

MODEL 700TM H24

SERIAL NO.
C6225228

ORDER NO.
5716

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

Ø1

UPC



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