

C6587620

MODEL 700TM M24

Model **SMS** TM

Action

Barrel Length

Capacity

Order No. **5716**

*Includes 1 in chamber.

Remington

Repair Inquiry

Repair Number: **RE00127548**

Serial: C6587620 Model M24 SWS Center Fire

Repairman:

Verify Repair

Status:

New 4/3/2007 6:59:02 AM

Address Information

Customer:

☒ Received From

Return To:

☐ Received From

Name: **RAMON VELAZQUEZ STTD**

RAMON VELAZQUEZ STTD

Address 1: **1401 ARTILLERY CIRCLE**

1401 ARTILLERY CIRCLE

Address 2: **ATTN: SUPPLY BLDG 978**

PO Box:

ATTN: SUPPLY BLDG 978

PO Box:

City: **FT LEONARD WOOD**

FT LEONARD WOOD

State: **MD**

Zip Code: **206473**

Country: **US**

State: **MD**

Zip Code: **206473**

Country: **US**

FFL:

Contact / Condition

Problems

Estimate

History / Status

Shipping / Billing

Contact Information

Phone: **573 596 3420**

Fax:

Email:

Comments:

Received Condition

Fair

Condition

Notes:

CSR

Notes:

Accessories Received

Code	Desc	Qty
A007	With Stud	3
A010	Hard Case	1
A017	Scope Base	1
A045	Bi Pod	1
A057	Fit and Rear Sgt Base	2

Repair Search

Refresh

Close

naglej

4/3/2007

7:26 AM

DAPS

NUM

INS

SCRL

Serial Number: **C6587620**

Model: **M24 SWS**



RE00127548

Factory Repair Instructions

(NOTE: Please print and complete this form, and then include it with your firearm.)

Model Number: <u>M24A1</u>		Serial Number: <u>C6587620</u>	
Are you the original owner?: ☒ YES ☐ NO <u>Contract # DAAE20-02-C-0149</u>			
Name: <u>US Army MPS-STTD</u>		Date of Purchase: <u>unknown</u>	
Address (no PO Boxes): <u>1401 Artillery Center</u>			
<u>BLDG 978</u>			
ATTN: <u>Ramon Velazquez</u>			
City: <u>FT. Leonard Wood</u>		State: <u>MO</u>	Zip: <u>65473</u>
Phone (Daytime): <u>(573) 596-0131 x6-3420</u>		Fax: <u>(573) 596-0747</u>	
E-mail Address:			
☐ I would like to receive future e-mail updates from Remington.			
Please describe your problem and date of occurrence:			
<u>- crack in bolt (on lip above extractor)</u>			
<u>- crack in stock (below bolt handle)</u>			
Ammunition Information:			
Manufacturer: <u>Military (Lake City)</u>		Type: <u>M118 MATCH B91</u>	
Other (i.e. bullet weight/type, shot size, powder):			
Handload Information:			
Powder Used:		Powder Weight:	
Case/Hull Used:		Primer Used:	
Bullet Type/Shot Size:		Reloader Used:	
Firearms Care (Cleaning and Lubrication):			
Brand of cleaning solution used:			
How often do you clean the bore? (Months or Number of rounds)			
How often do you clean the action? (Months or Number of rounds)			
How often do you clean the trigger assembly? (Months or Number of rounds)			
Brand of lubricant used:			
How often do you lubricate the bore? (Months or Number of rounds)			
How often do you lubricate the action? (Months or Number of rounds)			
How often do you lubricate the trigger assembly? (Months or Number of rounds)			
Have you reviewed the cleaning and maintenance recommendations on our web site or in our owners manual? ☐ YES ☐ NO			

M-24 INSPECTION CHECKLIST
CONTRACT #: DAAE-20-02-C-0149

R & E NUMBER <u>127548</u>			
SERIAL NUMBER <u>C6587620</u>			
LOG-IN DATE <u>4-3-07</u>			
OPERATION #	OPERATION NAME	DATE	INITIAL
500	DIS-ASSEMBLE GUN	4-26-07	RJR
505	RE-BARREL	Replace Stock	5-14-07 RJR
560	ASSEMBLE		
600	PROOF		
605	CHECK HEADSPACE		
610	DIS-ASSEMBLE GUN		
612	MAGNAFLUX		
510	DRILL AND TAP		
615	ROLLMARK CALIBER		
618	ROTO-BLAST		
620	APPLY COATINGS		
625	FINAL ASSEMBLY		
640	FUNCTION TEST AND	PASS <u>N/A</u> FAIL	RJR
650	TARGET	PASS <u>N/A</u> FAIL	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
670	FINAL INSPECTION		5/15/07
	A) HEADSPACE	<u>PASS</u> FAIL	5/15/07
	B) TRIGGER PULL	+/- .5 LBS MIN 2.50 LBS MAX 4.0 LBS	
	F) SAFETY ON FORCE	2 LBS MIN 10 LBS MAX	
	G) SAFETY OFF FORCE	2 LBS MIN	
	I) FIRING PIN INDENT	.020	
690	PACK		5-17-07 RA

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: **RE00103099** Serial: C6587620 Model: M24 SWS Center Fire Caliber: 7.62 NATO Produced: 12/18/1990 Repairman: Status: Closed 11/1/2005 3:10:20 PM

Verify Repair: [REDACTED]

Address Information

Customer: ☒ Received From Return To: ☐ Received From

Name: **JERRY NELSON STTD**

Address 1: **1401 ARTILLERY CIRCLE**

Address 2: **ATTN SUPPLY BLDG 978** PO Box: [REDACTED]

City: **FORT LEONARD WOOD**

State: **MO** Zip Code: **65473** Country: **US**

FFL: [REDACTED]

Contact / Condition Problems Estimate History / Status Shipping / Billing

Contact Information: Phone: **800 243 9700** Fax: [REDACTED] Email: [REDACTED] Comments: [REDACTED]

Received Condition: Felt: [REDACTED] Condition Notes: [REDACTED] CSR Notes: [REDACTED]

Accessories Received:

Code	Desc	Qty
A007	With Stud	3
A009	Soft Case	1
A017	Scope Base	1
A045	Bi Pod	1
A052	Frt and Rear Sgt Base	1

Repair Search Refresh Close

start 2 5 3

Serial Number: **C6587620**

Model: **M24 SWS**



RE00103099

(NOTE: Please print and complete this form, and then include it with your firearm.)

M2400023939

Comments:
When was the last time that your firearm was serviced by a Remington authorized repairman/gunsmith?
What were the services performed?
Ship your INSURED firearm by either UPS or Parcel Post to: Remington Arms Co., Inc. Attn: Arms Service Division 14 Hoefler Avenue Ilion, NY 13357
ⓘ WARNING: DO NOT SEND LIVE OR SPENT SHELLS IN YOUR FIREARM OR IN THE SAME BOX WITH THE FIREARM. THIS IS A VIOLATION OF FEDERAL LAW. IF YOU FEEL YOU MUST SEND SPENT SHELLS PLEASE SEND THEM IN A SEPARATE PACKAGE AND INCLUDE NAME, ADDRESS (WITH ZIP CODE), TELEPHONE AND MODEL AND SERIAL NUMBER OF YOUR FIREARM. :: Record the serial number of your firearm before sending it. :: Pack your firearm for safety and to prevent further damage in shipping and handling. Preferably, ship in a firearm box. (Note: Original boxes may not be returned.) :: Remove all accessories from your firearm to prevent loss or damage. :: Provide a return address on both the outside and inside the box. Shipments without a proper return address will be refused. :: Ship your INSURED firearm by either UPS or Parcel Post. Remington is not responsible for damage or loss during shipment, so you may elect to purchase insurance from your carrier. Charge repairs will be processed using the following guidelines: :: Repairs \$75.00 and under will be completed and returned to you C.O.D. (To avoid C.O.D. Charges, please include your credit card number and expiration date with your gun) :: For Repairs over \$75.00, you will receive a written estimate detailing the nature of the repair, applicable taxes and shipping. You will have 30 days to approve the repair estimate. Repairs can be paid by check, money order, or credit card (American Express, Discover, MasterCard, or VISA). If you wish, you can expedite repairs over \$75.00 by setting a pre-authorized amount that can be billed to your credit card.

DA FORM 2407, JUL 94

M2400023941

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50 LBS (plus or minus 0.50 LBS)
3.00 LBS (plus or minus 0.75 LBS)
4.00 LBS (plus or minus 1.00 LBS)

SERIAL NO. _____

DATE 11-8-05

TESTER R.P.

	2.50 LBS INITIAL	2.50 LBS AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50 LBS		COMMENTS
PULL #1	2.52	2.46		2.44	
PULL #2	2.61	2.35		2.50	
PULL #3	2.57	2.52		2.47	
PULL #4	2.56	2.48		2.52	
PULL #5	2.58	2.44		2.49	
TOTAL	12.84	12.25		12.42	
AVERAGE	2.56	2.45		2.48	

	3.00 LBS INITIAL	3.00 LBS AFTER 20 CYCLES		COMMENTS
PULL #1	3.08	3.08		
PULL #2	2.94	3.09		
PULL #3	3.03	3.13		
PULL #4	3.06	3.06		
PULL #5	3.13	3.18		
TOTAL	15.24	15.54		
AVERAGE	3.04	3.10		

	4.00 LBS INITIAL	4.00 LBS AFTER 20 CYCLES	MAX SETTING GREATER THAN 4 LBS	RESET TO 4 LBS FOR TARGET & ACCURACY
PULL #1	4.12	4.03		4.00
PULL #2	4.19	4.00		4.13
PULL #3	4.02	3.97		4.13
PULL #4	4.16	4.03		4.07
PULL #5	4.10	3.96		4.05
TOTAL	20.59	19.99		20.38
AVERAGE	4.11	3.99		4.07

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6587620.___0

FILE DATE AND TIME: 11/17/2005 15:16

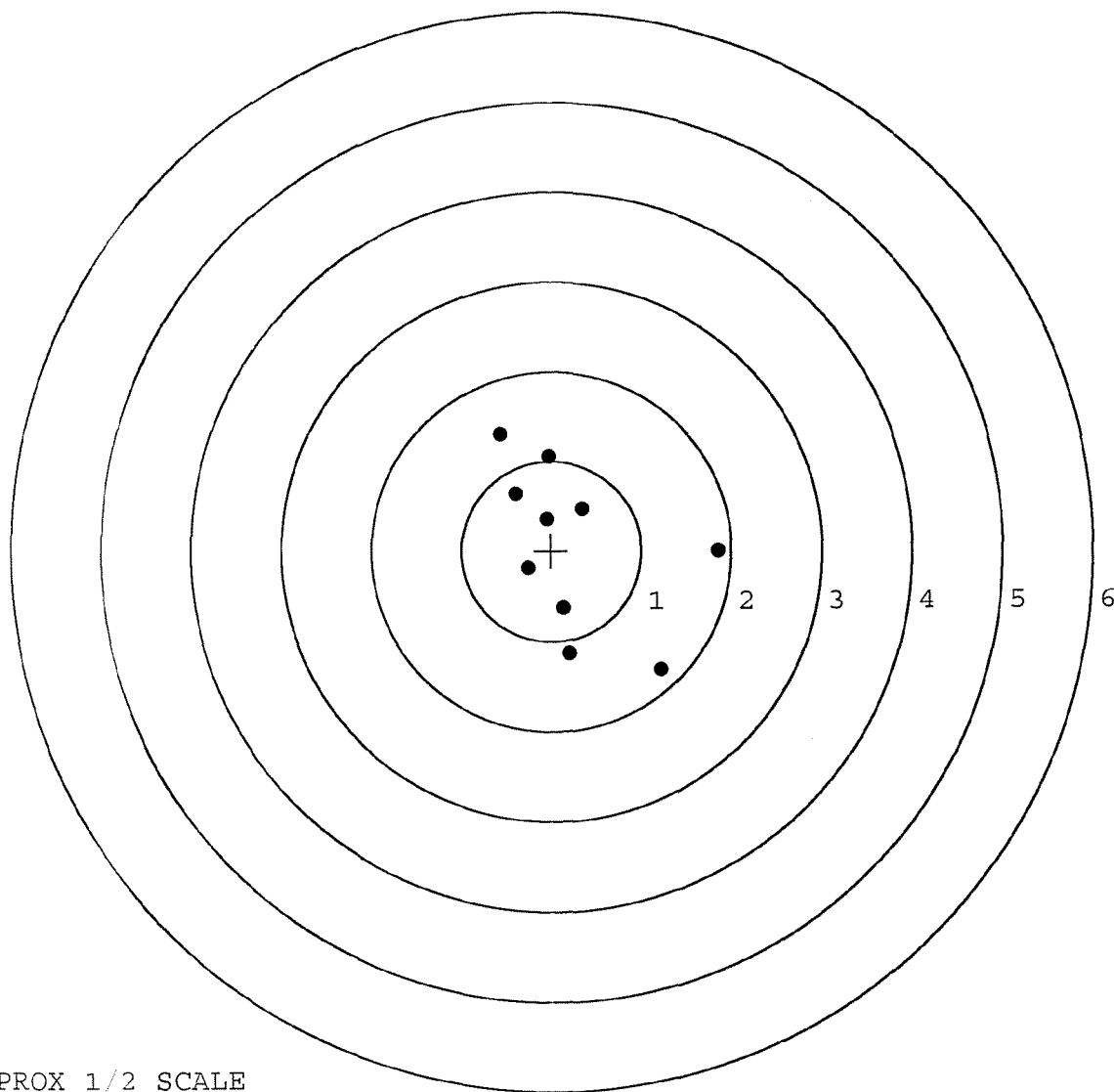
THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	0.061
The Average Y Centroid of the Five Target Set:	0.008
The Average Point of Impact of the Five Target Set:	0.062
The Average Mean Radius of the Five Target Set:	0.732
The Distance from POA to Centroid Target #1:	0.252
The Distance from Centroid Target #2 to Centroid Target #1:	0.180
The Distance from Centroid Target #3 to Centroid Target #1:	0.242
The Distance from Centroid Target #4 to Centroid Target #1:	0.238
The Distance from Centroid Target #5 to Centroid Target #1:	0.372

SERIAL NUMBER: C6587620. __0
TARGET NUMBER: 1
FILE DATE: 11/17/2005
FILE TIME: 15:16

X CENTROID: 0.247
Y CENTROID: 0.052
POA TO CENTROID: 0.252
HORZ SPREAD: 2.421
VERT SPREAD: 2.616
GROUP SPREAD: 3.163
MIN RADIUS: 0.418
MAX RADIUS: 1.677
MEAN RADIUS: 0.998
IN 1 IN DIAMETER: 2
IN 2 IN DIAMETER: 5
in 3 IN DIAMETER: 8

POINT#	X	Y
1:	1.216	-1.316
2:	1.859	0.006
3:	0.201	-1.137
4:	0.136	-0.637
5:	-0.256	-0.200
6:	0.343	0.467
7:	-0.398	0.639
8:	-0.024	1.048
9:	-0.562	1.300
10:	-0.048	0.349

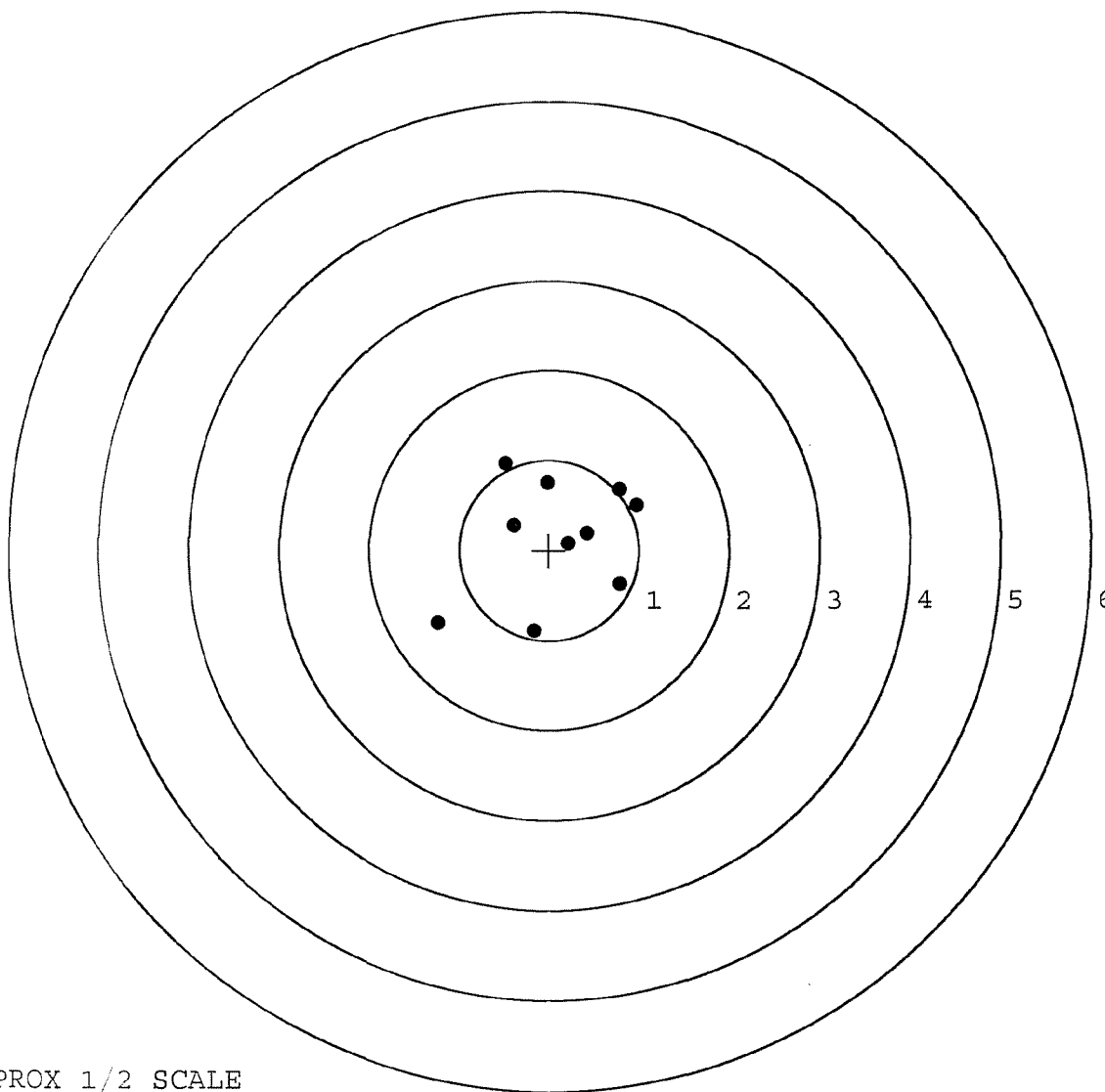


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6587620. __0
TARGET NUMBER: 2
FILE DATE: 11/17/2005
FILE TIME: 15:16

POINT#	X	Y
1:	-0.170	-0.896
2:	0.789	-0.378
3:	0.215	0.076
4:	0.414	0.193
5:	0.976	0.501
6:	0.791	0.674
7:	-0.026	0.750
8:	-0.398	0.275
9:	-0.482	0.964
10:	-1.237	-0.809

X CENTROID: 0.087
Y CENTROID: 0.135
POA TO CENTROID: 0.161
HORZ SPREAD: 2.213
VERT SPREAD: 1.860
GROUP SPREAD: 2.572
MIN RADIUS: 0.141
MAX RADIUS: 1.626
MEAN RADIUS: 0.801
IN 1 IN DIAMETER: 2
IN 2 IN DIAMETER: 7
in 3 IN DIAMETER: 9

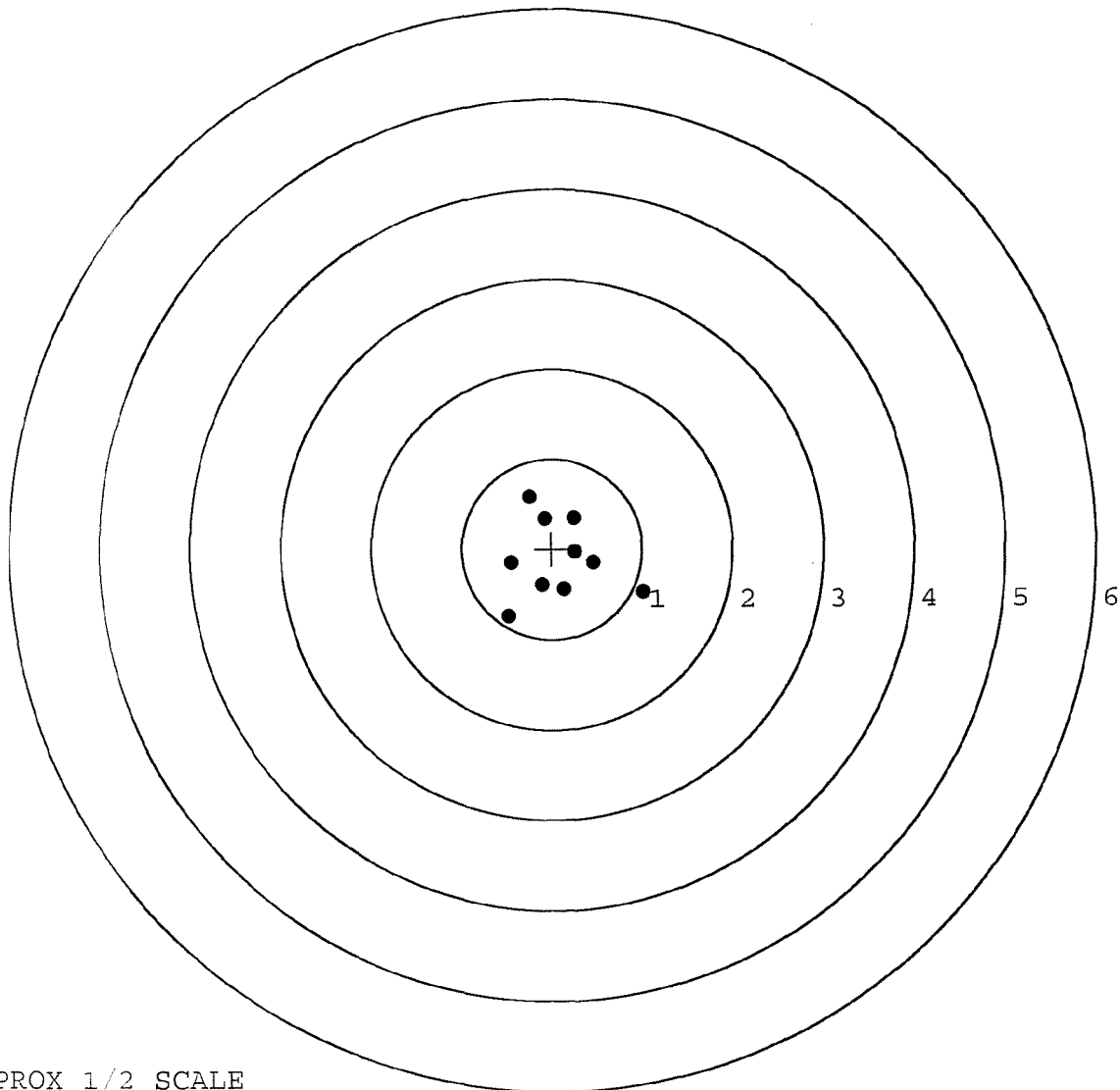


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6587620. __0
TARGET NUMBER: 3
FILE DATE: 11/17/2005
FILE TIME: 15:16

X CENTROID: 0.073
Y CENTROID: -0.116
POA TO CENTROID: 0.137
HORZ SPREAD: 1.495
VERT SPREAD: 1.325
GROUP SPREAD: 1.646
MIN RADIUS: 0.200
MAX RADIUS: 1.006
MEAN RADIUS: 0.538
IN 1 IN DIAMETER: 6
IN 2 IN DIAMETER: 9
in 3 IN DIAMETER: 10

POINT#	X	Y
1:	1.011	-0.479
2:	-0.484	-0.750
3:	0.138	-0.451
4:	-0.108	-0.404
5:	-0.448	-0.158
6:	0.460	-0.147
7:	0.255	-0.034
8:	0.242	0.351
9:	-0.086	0.339
10:	-0.253	0.575



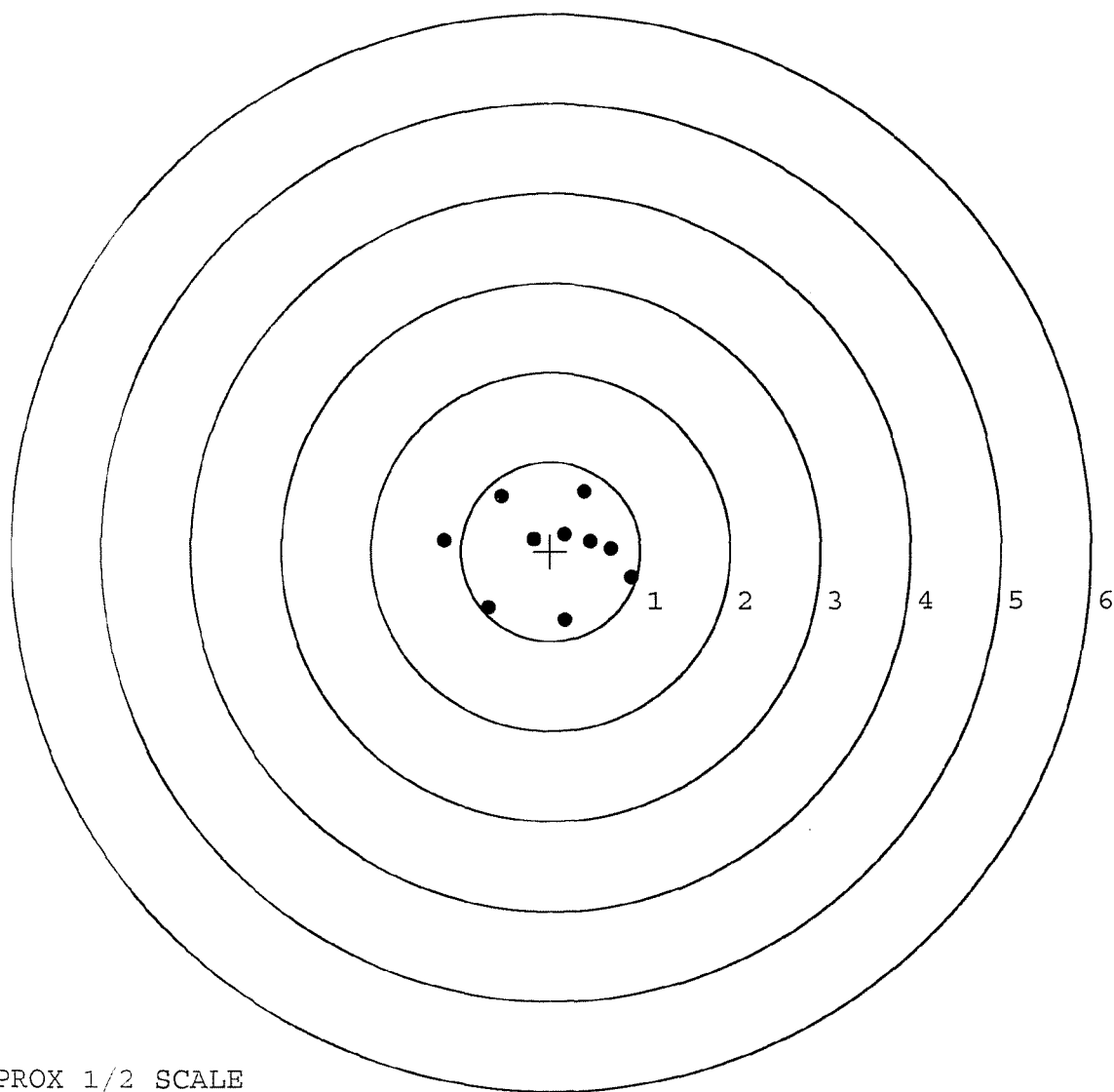
TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6587620. __0
TARGET NUMBER: 4
FILE DATE: 11/17/2005
FILE TIME: 15:16

X CENTROID: 0.011
Y CENTROID: 0.019
POA TO CENTROID: 0.022
HORZ SPREAD: 2.090
VERT SPREAD: 1.436
GROUP SPREAD: 2.130
MIN RADIUS: 0.222
MAX RADIUS: 1.200
MEAN RADIUS: 0.704

POINT#	X	Y
1:	0.905	-0.290
2:	0.166	-0.769
3:	-0.696	-0.629
4:	-1.185	0.119
5:	-0.553	0.616
6:	-0.189	0.135
7:	0.156	0.188
8:	0.450	0.119
9:	0.675	0.038
10:	0.380	0.667

IN 1 IN DIAMETER: 3
IN 2 IN DIAMETER: 9
in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6587620. 0

TARGET NUMBER: 5

FILE DATE: 11/17/2005

FILE TIME: 15:16

POINT#	X	Y
--------	---	---

1:	1.023	0.396
----	-------	-------

2:	0.433	0.069
----	-------	-------

3:	0.271	0.190
----	-------	-------

4:	0.251	-0.347
----	-------	--------

5:	-0.033	-0.451
----	--------	--------

6:	-0.513	-0.118
----	--------	--------

7:	-0.319	-0.032
----	--------	--------

8:	-0.301	0.295
----	--------	-------

9:	-0.565	0.319
----	--------	-------

10:	-1.357	-0.817
-----	--------	--------

X CENTROID: -0.111

Y CENTROID: -0.050

POA TO CENTROID: 0.122

HORZ SPREAD: 2.380

VERT SPREAD: 1.213

GROUP SPREAD: 2.671

MIN RADIUS: 0.209

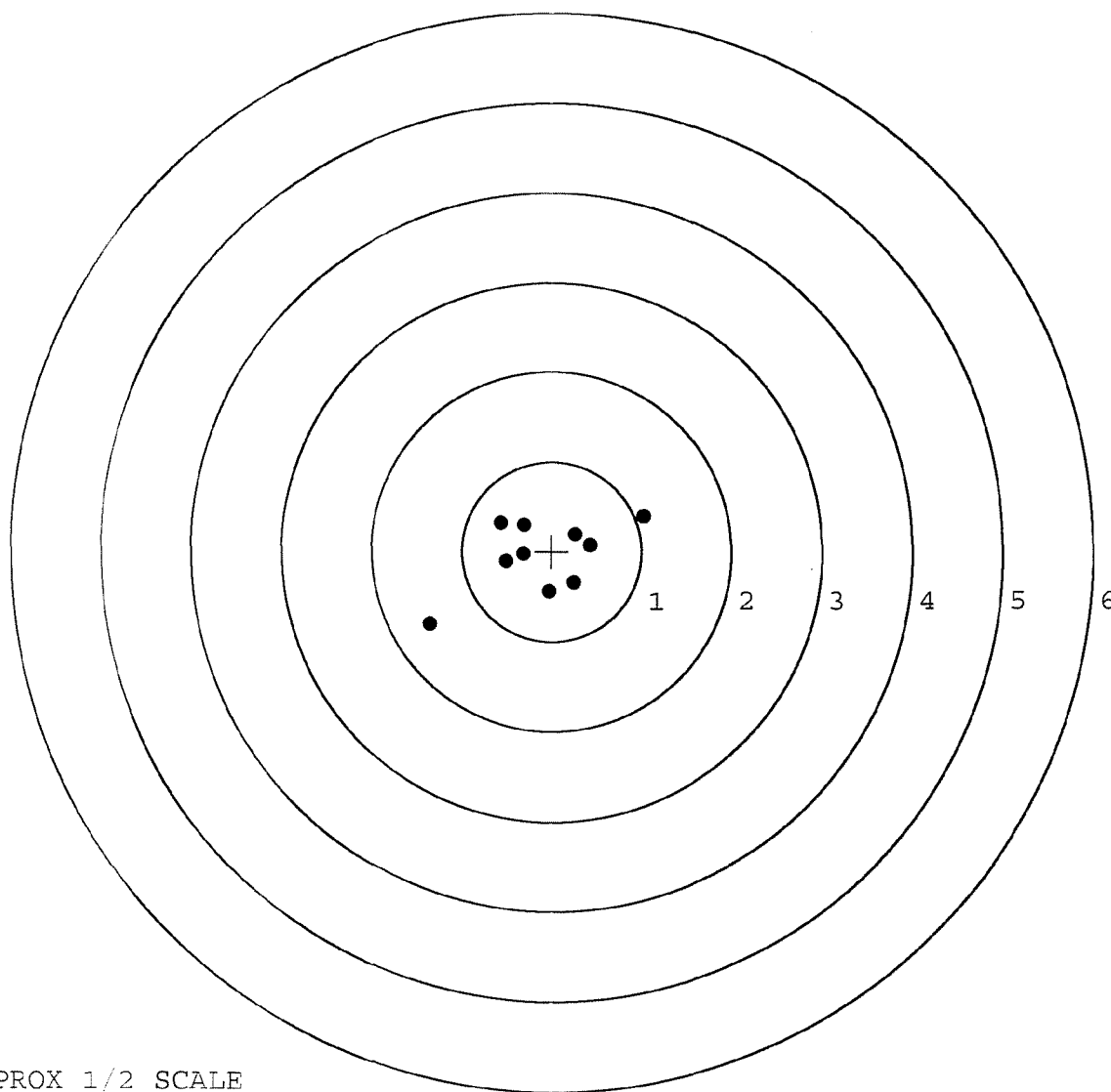
MAX RADIUS: 1.463

MEAN RADIUS: 0.616

IN 1 IN DIAMETER: 6

IN 2 IN DIAMETER: 8

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

M-24 INSPECTION CHECKLIST
CONTRACT #: DAAE-20-02-C-0149

R & E NUMBER	103099			
SERIAL NUMBER	C10587620			
LOG-IN DATE	11-1-05			
OPERATION #	OPERATION NAME		DATE	INITIAL
500	DIS-ASSEMBLE GUN		11-8-05	RTZ
505	RE-BARREL		11-9-05	RTZ
560	ASSEMBLE		11-9-05	CD
600	PROOF	MAGNA-FLUX INSPECTED NOV 10 2005	11-9-05	CD
605	CHECK HEADSPACE		11-9-05	CD
610	DIS-ASSEMBLE GUN		11-9-05	CD
612	MAGNAFLUX	OPERATOR <u>unub</u>	11/10/05	unub
510	DRILL AND TAP		11-10-05	BE
615	ROLLMARK CALIBER		11-10-05	CW
618	ROTO-BLAST		11-14-05	LB
620	APPLY COATINGS		11/15/05	HP
625	FINAL ASSEMBLY		11-16-05	RTZ
640	FUNCTION TEST AND	PASS FAIL	11-17-05	TRW
650	TARGET	PASS FAIL	11-17-05	TRW
	MALFUNCTION	CORRECTION		
	MALFUNCTION	CORRECTION		
	MALFUNCTION	CORRECTION		
	MALFUNCTION	CORRECTION		
670	FINAL INSPECTION		11-17-05	TRW
	A) HEADSPACE	PASS FAIL	12-5-05	RTZ
			12-05/05	RTZ
	B) TRIGGER PULL	+/- .5 LBS MIN 2.50 LBS MAX 4.0 LBS	2.72 2.93 2.59 2.57 2.71	11-21-05 BC
680	F) SAFETY ON FORCE	2 LBS MIN 10 LBS	5.2 5.0 5.5	RTZ
	G) SAFETY OFF FORCE	2 LBS MIN	2.5 2.5 3.0	RTZ
	I) FIRING PIN INDENT	.020	0.23 0.23 0.24	RTZ
690	PACK			12/3/05 DA




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

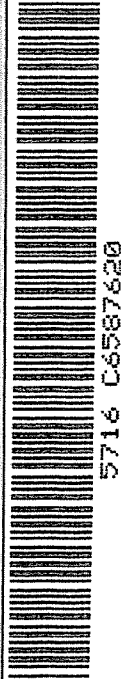
MODEL 700™ M24

SERIAL NO.
C6587620

ORDER NO.
5716

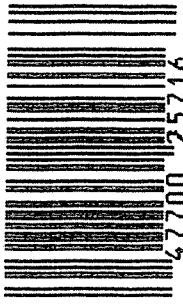
MADE IN ILION, N.Y. U.S.A. Reg. U.S. Pat. & Tm. Off. Marca Registrada Marque Deposee.

01



5716 C6587620

UPC



0 47700 25716 7

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C 6587620

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock		10/22/90	KE
600	Proof		10/22/90	KE
607	Check Headspace		10/22/90	KE
610	Dis-assemble Gun		10/22/90	KE
612	Magnaflux Barrel Action		10/24/90	KR
	Magnaflux Bolt		"	KR
615	Rollmark Caliber		"	JS
617	Drill and Tap Sight Holes		10/25/90	W.B
618	Polish Barrel <i>W.B</i>		10/26/90	W.B
620	Apply Coatings (Barrel Action)		11-7-90	HA
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		11/8/90	KS
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		11/8/90	KS
	C) Inspect Ejector Hole for Chamfer		11/8/90	KS
	D) Oil Firing Pin Ass'y		11/8/90	KS
	E) Adjust Trigger Pull to Min Setting and Stake		11-14-90	KE

op. #	OP. NAME	READINGS			DATE	INIT
625 cont.	F) Safety On Force	5 1/2	5 1/2	5 1/4	11/14/90	WB
	G) Safety Off Force	2 1/2	2 1/2	2 1/2	11/14/90	WB
	H) Trigger Pull Test & Retainability				11-14-90	JL
	I) Firing Pin Indent	.024	.024	.024	11/14/90	WB
	J) Assemble Stock				11/14/90	KS
	K) Assemble Swivel Studs				11-20-90	JS
	L) Attach Front and Rear Sight Assemblies				11/14/90	KS
	M) Iron Sight Alignment				11/14/90	KS
	N) Detach Front & Rear Sights & place in numbered container				11/14/90	KS
	O) Attach Scope to Rifle				11/14/90	KS
	P) Detach & Attach Scope 20 Times				11/14/90	KS
640	Gallery Target & Test				11/15/90	NF
	A) Time				"	NF
	B) Malfunctions				"	NF
	C) Pierced Primers				"	NF
	D) Optical Clarity of Scope				"	NF
645	Inspect for Live Ammo				11/15/90	NF
655	Final Inspection					
	A) Headspace				11/20/90	JS
	B) Trigger Pull	250	262	251 258 252	11/20/90	JS
	C) Function				11/20/90	JS
660	Pack				12-17-90	WH

SWS TRIGGER PULL TEST

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# ± .50#

3.00# ± .75#

4.00# ± 1.00#

SERIAL NO: 26587620

DATE 11-14-90

TESTER JL

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.45	2.40	2.38	2.35	MIN. SETTING, NO. AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.47	2.34	2.32	2.62	
PULL #3	2.47	2.24	2.38	2.51	
PULL #4	2.35	2.34	2.41	2.58	
PULL #5	2.44	2.46	2.24	2.52	
TOTAL					
AVG.					

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.31	3.42		
PULL #2	3.35	3.44		
PULL #3	3.28	3.17		
PULL #4	3.46	3.43		
PULL #5	3.42	3.40		
TOTAL				
AVG.				

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.17	4.27		4.22
PULL #2	4.40	4.20		4.28
PULL #3	4.28	4.25		4.22
PULL #4	4.27	4.37		4.30
PULL #5	4.20	4.25		4.24
TOTAL				
AVG.				

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6587620
15 Nov 1990

CENTROIDAL DISTANCES

0 TO 1	.186424
1 TO 2	.258745
1 TO 3	.103947
1 TO 4	.280573
1 TO 5	.246587

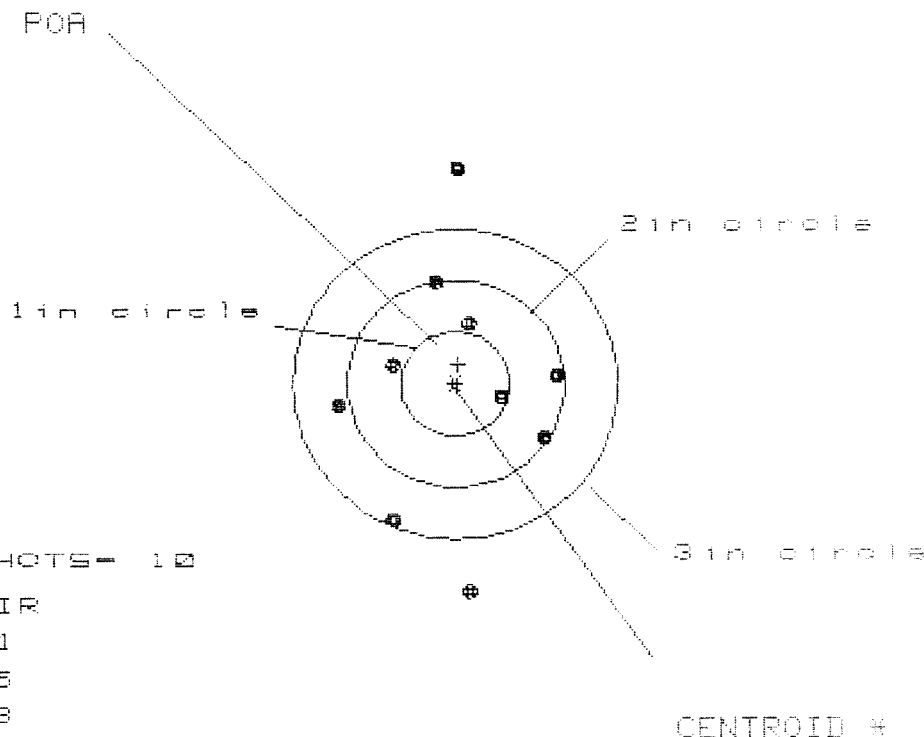
0.000000 <----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .0494
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.0366
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .0614811
THE AMR FOR THIS RIFLE IS: .9462

15 May 1998

FILE:/PATTERNING/CENTERFIRE_PATT/C8587620

CENTERFIRE PATTERNS # 1



OF SHOTS - 10

IN CIR

1in = 1

2in = 5

3in = 8

HS = 2.025

VS = 4.106

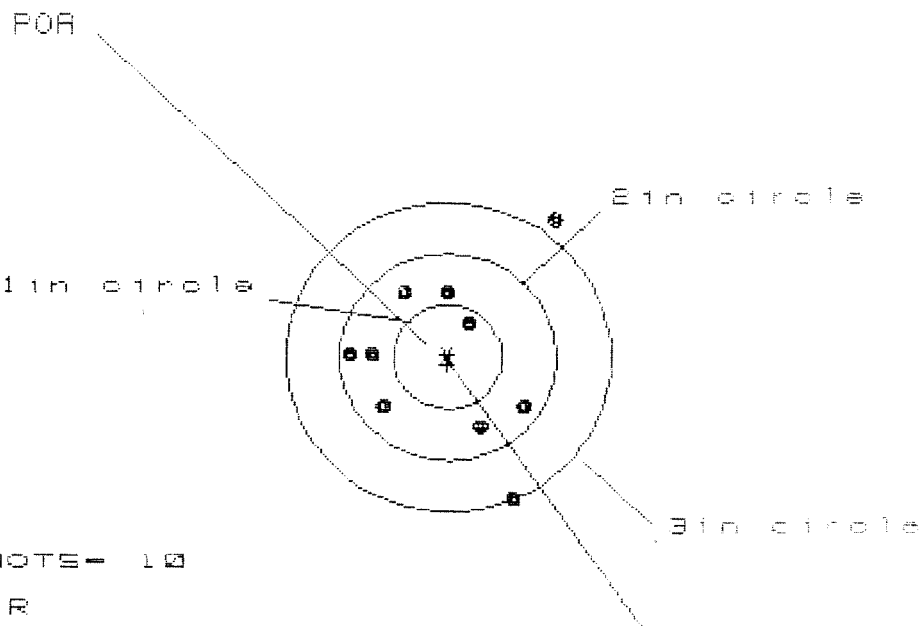
CS = 4.109

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.946	.945	.965
MINIMUM X	-1.079	-1.080	-1.060
MAXIMUM Y	2.132	1.248	1.030
MINIMUM Y	-1.974	-1.737	-1.259
CENTROID X	-.023	-.022	-.042
CENTROID Y	-.185	-.422	-.204
POA TO CENTROID in.	.186	.422	.209
MIN RADIUS	.433	.437	.447
MEAN RADIUS	1.120	1.016	.889
MAX RADIUS	2.132	1.744	1.397
HORIZONTAL SPREAD	2.025	2.025	2.025
VERTICAL SPREAD	4.106	2.985	2.289
EXTREME SPREAD	4.109	3.006	2.328
NUMBER IN ONE INCH CIRCLE =	1		
NUMBER IN TWO INCH CIRCLE =	5		
NUMBER IN THREE INCH CIRCLE =	8		

15 Nov 1998

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CENTERFIRE PATTERNS # 2



OF SHOTS- 10

IN CIR

1 in = 1

2 in = 8

3 in = 9

HS= 1.913

VS= 2.710

GS= 2.738

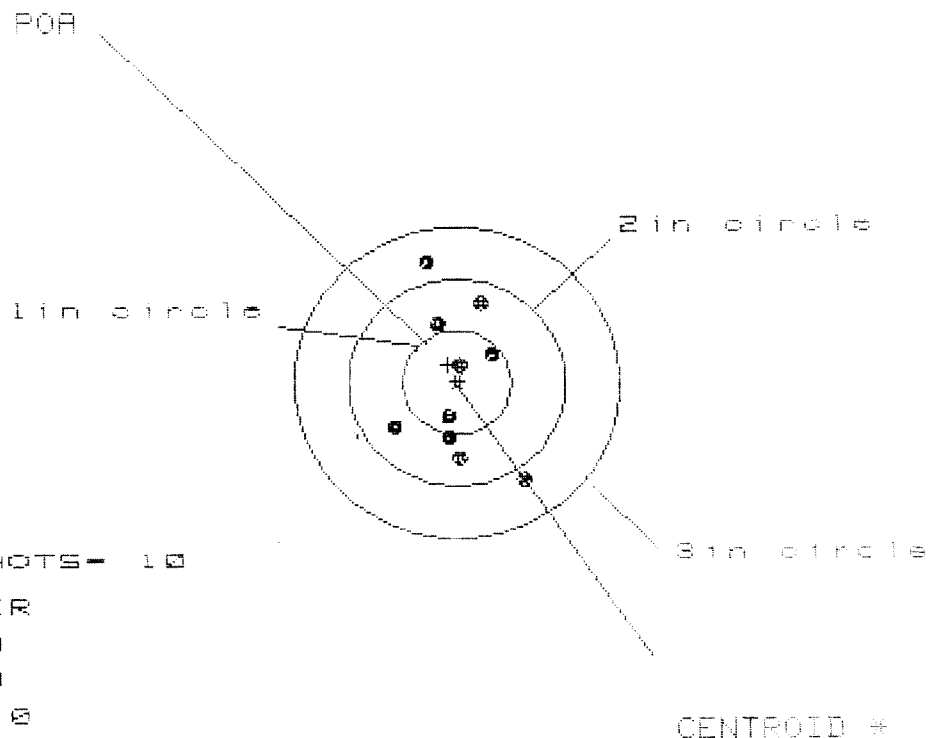
CENTROID *

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.968	.794	.879
MINIMUM X	:	-.945	-.837	-.752
MAXIMUM Y	:	1.343	.801	.648
MINIMUM Y	:	-1.367	-1.217	-.708
CENTROID X	:	.007	-.101	-.186
CENTROID Y	:	.072	-.078	.075
POR TO CENTROID in.	:	.072	.127	.201
MIN RADIUS	:	.411	.595	.481
MEAN RADIUS	:	.898	.806	.703
MAX RADIUS	:	1.656	1.396	1.016
HORIZONTAL SPREAD	:	1.913	1.631	1.631
VERTICAL SPREAD	:	2.710	2.018	1.356
EXTREME SPREAD	:	2.738	2.266	1.711
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		8	
NUMBER IN THREE INCH CIRCLE	=		9	

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CENTERFIRE PATTERNS # 3



OF SHOTS- 10

IN CIR

1 in = 3

2 in = 8

3 in = 10

HS= 1.136

VS= 2.063

GS= 2.246

PATTERN #	3	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.596	.563	.371
MINIMUM X	-.540	-.573	-.502
MAXIMUM Y	1.144	.945	.846
MINIMUM Y	-.919	-.792	-.735
CENTROID X	.080	.113	.042
CENTROID Y	-.171	-.298	-.199
POA TO CENTROID in.	.189	.319	.204
MIN RADIUS	.222	.286	.259
MEAN RADIUS	.678	.614	.563
MAX RADIUS	1.181	.972	.889
HORIZONTAL SPREAD	1.136	1.136	.872
VERTICAL SPREAD	2.063	1.737	1.581
EXTREME SPREAD	2.246	1.775	1.597
NUMBER IN ONE INCH CIRCLE =	3		
NUMBER IN TWO INCH CIRCLE =	8		
NUMBER IN THREE INCH CIRCLE =	10		

15 Nov 1988

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CENTERFIRE PATTERNS # 4

POB

1in circle

2in circle

3in circle

CENTROID #

OF SHOTS- 10

IN CIR

1in = 2

2in = 7

3in = 10

HS= 2.446

VS= 1.601

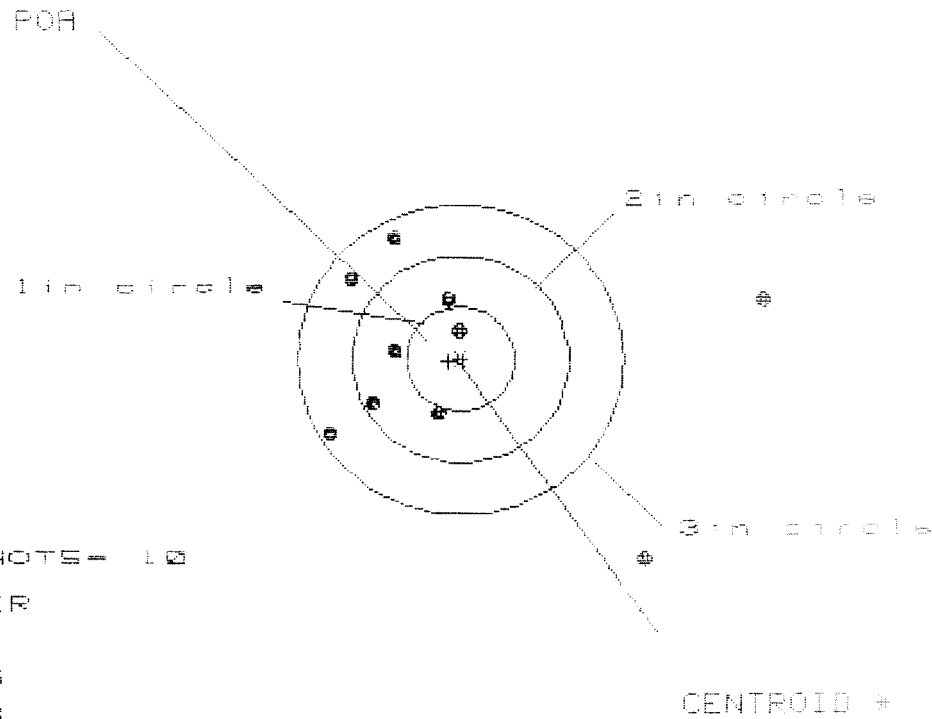
GS= 2.535

PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.173	1.032	.746
MINIMUM X	:	-1.273	-.930	-.801
MAXIMUM Y	:	.743	.794	.814
MINIMUM Y	:	-.858	-.775	-.755
CENTROID X	:	.072	.213	.084
CENTROID Y	:	.079	-.004	-.024
POB TO CENTROID in.	:	.107	.213	.088
MIN RADIUS	:	.173	.151	.070
MEAN RADIUS	:	.790	.705	.647
MAX RADIUS	:	1.474	1.211	1.101
HORIZONTAL SPREAD	:	2.446	1.962	1.547
VERTICAL SPREAD	:	1.601	1.569	1.569
EXTREME SPREAD	:	2.535	2.174	1.888
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		7	
NUMBER IN THREE INCH CIRCLE	=		10	

15 Nov 1998

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CENTERFIRE PATTERNS # 5



OF SHOTS = 10

IN CIR

1 in = 1

2 in = 5

3 in = 8

HS = 4.0332

VS = 3.081

GS = 4.239

PATTERN #	5
SHOTS (BEST OF)	10
MAXIMUM X	2.929
MINIMUM X	-1.203
MAXIMUM Y	1.261
MINIMUM Y	-1.988
CENTROID X	.111
CENTROID Y	.022
POA TO CENTROID in.	.113
MIN RADIUS	.309
MEAN RADIUS	1.245
MAX RADIUS	2.885
HORIZONTAL SPREAD	4.032
VERTICAL SPREAD	3.081
EXTREME SPREAD	4.239
NUMBER IN ONE INCH CIRCLE =	1
NUMBER IN TWO INCH CIRCLE =	5
NUMBER IN THREE INCH CIRCLE =	8