

G-623 6218

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

Remington®

M/24 7.62 NATO S.W.S. (COMPLETE SYSTEM)
BOLT ACTION CENTERFIRE RIFLE
24" BARREL 7.62 NATO

46

Made in Illinois, NY Reg. U.S. Pat. & tm. Off. Marca Registrada. Marque Deposee.

SERIAL NO. J
G6236218

ORDER NO.
25716

06XW

5716 G6236218

ORDER 25716
M/24 7.62 NATO S.W.S. (COMPLETE SYST

UPC



ORDER 25716
M/24 7.62 NATO S.W.S. (COMPLETE SYST

UPC



SERIAL NO.



M/24 7.62 NATO S.W.S. (COMPLETE SYSTEM)
BOLT ACTION CENTERFIRE RIFLE
24" BARREL 7.62 NATO

- INSTRUCTION BOOK 3518

46 FORM

proof of purchase



owner registration sticker



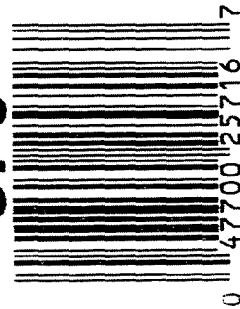
ORDER NO. **25716**

BARREL LENGTH **24"**

CAPACITY **6**

G6236218

UPC



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: RE00173415

Serial: G6236218 Model M24 SWS Center Fire
Caliber: 7.62 NATO Produced: 12/06/2002

Repairman:

Status:

New 8/19/2009 3:06 44 PM

Verify Repair

Address Information

Customer:

☒ Received From

Return To:

☐ Received From

Name: FE4626 341 SUPS

FE4626 341 SUPS

Address 1: 580 TH STREET BLDG 400

580 TH STREET BLDG 400

Address 2: CRAIG STEPHENS SSGT TRF

PO Box:

CRAIG STEPHENS SSGT TRF

PO Box:

City: MAMSTRON AFB

MAMSTRON AFB

State: MT

Zip Code: 59402

Country: US

State: MT

Zip Code: 59402

Country: US

FFL

Contact / Condition

Problems

Estimate

History / Status

Shipping / Billing

Contact Information

Phone: 406 731 2346

Fax:

Email: christopher.stephens@malmstrom.af.mil

Comments:

Received Condition

Fair

Condition:

Notes:

CSR

Notes:

Accessories Received

Code	Desc	Qty
A007	With Stud	2
A010	Hard Case	1
A026	Scope	1
A057	Frt Sgt Bases	1
C000	MARS RAIL	1

Refresh

Close

Repair Search

Refresh

Close

naglej

8/20/2009

7:45 AM

CAPS

NUM

INS

SCRL

Serial Number: **G6236218**Model: **M24 SWS****RE00173415**

M-24

INSPECTION CHECKLIST - REPAIRS

CONTRACT #: W52H09-07-C-0207

ISSUED 10/1/2007

R & E NUMBER

173415

SERIAL NUMBER

G6236218

LOG-IN DATE

8-19-09

OPERATION #	OPERATION NAME	DATE	INITIAL
500	DIS-ASSEMBLE GUN	9-10-09	RTL
505	RE BARREL		
420	ASSEMBLE		
440	PROOF		
460	CHECK HEADSPACE		
470	DIS-ASSEMBLE GUN		
480	MAGNAFLUX		
510	DRILL AND TAP		
500	ROLLMARK CALIBER		
520	GOFF BLAST BBL / REC		
530 & 540	APPLY COATINGS		
560	FINAL ASSEMBLY		
640	FUNCTION TEST AND	PASS FAIL	9-28-09 RP
650	TARGET	PASS FAIL	9-28-09 RP
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
670	FINAL INSPECTION		
	A) HEADSPACE	PASS FAIL	
	B) TRIGGER PULL		
		+/- .5 LBS MIN 2.50 LBS MAX 4.0 LBS	
680	F) SAFETY ON FORCE		
		2 LBS MIN 10 LBS MAX	
	G) SAFETY OFF FORCE		
		2 LBS	
	I) FIRING PIN INDENT		
		.020	
690	PACK		

F006 REV 1/2009



LEUPOLD®
AMERICA'S OPTICS AUTHORITY™

Dear Customer:

The services that have been performed on your product are explained below.

- X **Mechanical Inspection** To insure total travel for windage and elevation adjustment in your scope, we use a calibration instrument called a "Collimator." The windage and elevation adjustments were completely cycled and we have verified that they have total travel. A specialist in our service department has checked your scope for image jump and drift, loss of motion, parallax, and image quality. All tests show your scope is mechanically sound.
- X **Complete Internal Inspection** To return your scope to an "as new" condition, a specialist in our service department has removed all internal parts. The specialist has checked cam followers, screws, lens and pivot tube slots. After careful inspection your scope has been reassembled to an as new condition.
- X **Visual Inspection** Our experienced specialist has carefully inspected your scope for any irregularities inside and outside. This inspection includes a thorough lens inspection. Your scope was found to be completely sound and functional.

Yours truly,
L&S Technical Service Specialist

Kupka, Colleen S CTR USAF AFSPC 341 LRS/LGRMSE

From: Stephens, Christopher T SSgt USAF AFSPC 341 SFG/TRF
Sent: Tuesday, August 04, 2009 1:44 PM
To: Kupka, Colleen S CTR USAF AFSPC 341 LRS/LGRMSE
Subject: FW: Malmstrom M24 repair
Signed By: christopher.stephens@malmstrom.af.mil

Colleen,

These are the instructions that I have for shipping this broken M24 back to Remington arms, can I bring it down to you today or tomorrow or do we have to wait on paperwork?

-----Original Message-----

From: Brann, Michael D MSgt USAF AFSPC AFSPC/A7SX
Sent: Thursday, July 30, 2009 12:46 PM
To: Stephens, Christopher T SSgt USAF AFSPC 341 SFG/TRF
Subject: FW: Malmstrom M24 repair

//SIGNED//

MICHAEL D. BRANN, MSgt, USAF

AFSPC Combat Arms Program Manager

HQ AFSPC/A7SXC

DSN: 692-5581

FAX: 692-3983

-----Original Message-----

From: Owens, Travy T CTR USAF AFMC 575 CBSS/GBLC
Sent: Thursday, July 30, 2009 12:44 PM
To: Brann, Michael D MSgt USAF AFSPC AFSPC/A7SX
Subject: RE: Malmstrom M24 repair

MSgt Brann,

Please have them use the below instructions.

Follow the instructions below and return 1 each unserviceable NSN 1005012402136GG, M24 Sniper Rifle, serial number G6236218 for repair to Remington Arms Company INC, Ilion, NY. Assets are to be shipped through your Base Supply for accountability and audit purpose. Please verify serial numbers when weapons are returned to the unit. If lower receivers are replaced please update account and contact Mr. Larry LaPine with updates.

Special Instructions

1. AFTO Form 105 must accompany weapons. Also enclose copies of the signed

Weapons Inspection Results letter if available.

2. Asset must be tag with proper identification (Unserviceable (F) or Serviceable (A) Tag).

3. Ship weapon to: XR Remington Arms Company Inc, 14 Hoeflger Ave, Ilion NY 13357-1816. DODAAC: CMA0DC

4. Use Unit O&M funds to pay for shipment.

Questions concerning this disposition order can be directed to me.

Thank you,
Travy

-----Original Message-----

From: Brann, Michael D MSgt USAF AFSPC AFSPC/A7SX
[mailto:michael.brann@peterson.af.mil]
Sent: Thursday, July 30, 2009 2:20 PM
To: Owens, Travy T CTR USAF AFMC 575 CBSS/GBLC
Subject: FW: Malmstrom M24 repair

Travy,

Can I get disposition instructions for this?

Thanks

//SIGNED//

MICHAEL D. BRANN, MSgt, USAF

AFSPC Combat Arms Program Manager

HQ AFSPC/A7SXC

DSN: 692-5581

FAX: 692-3983

-----Original Message-----

From: Stephens, Christopher T SSgt USAF AFSPC 341 SFG/TRF
Sent: Thursday, July 30, 2009 12:17 PM
To: Brann, Michael D MSgt USAF AFSPC AFSPC/A7SX
Cc: Ruelas, Robert C TSgt USAF AFSPC 341 SFG/TRF; Morris, Derrik A SSgt USAF AFSPC 341 SFG/TRF; Baumgartner, Jeffrey A SSgt USAF AFSPC 341 SFG/TRF; Hunter, Joseph D SSgt USAF AFSPC 341 SFG/TRF; Vorhies, Timothy M A1C USAF AFSPC 341 SFG/TRF
Subject: Malmstrom M24 repair

MSgt Brann,

One of our M24s s/n G6236218 requires repair because the objective lens of the optic is chipped and some of the lenses in the center of the scope are loose. We will be needing to send this back to Remington. Could you please coordinate with depot so that we may do so.

V/R
SSgt Chris Stephens
341 Tactical Response Force/ Equipment Custodian

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: RE00131314

Serial: G6236218 Model M24 SWS Center Fire
Produced: 12/06/2002

Repairman:

Status:

Closed 7/12/2007 11:14:53 AM

Verify Repair

Address Information

Customer:

Received From

Return To:

Received From

Name: 341 SFG/TRF

341 SFG/TRF

Address 1: 77TH ST. SOUTH BLDG.581

77TH ST. SOUTH BLDG.581

Address 2:

PO Box:

MALMSTROM AFB

PO Box:

City: MALMSTROM AFB

MALMSTROM AFB

State: MT

Zip Code: 59402

Country: US

State: MT

Zip Code: 59402

Country: US

FFL:

Contact / Condition

Problems

Estimate

History / Status

Shipping / Billing

Contact Information

Phone: NA

Fax:

Email:

Comments:

Received Condition

Fair

Condition
Notes:CSR
Notes:

Accessories Received

Code	Desc	Qty
A006	Sling Strap	1
A007	With Stud	3
A017	Scope Base	1
A026	Scope	1
A057	Fit and Rear Sgt Base	1

Repair Search

Refresh

Close

nagletj

7/13/2007

8:25 AM

CAPS

NUM

INS

SCRL



4 Microsoft Of...

5 Internet Exp...

6 Microsoft Off...

Arms Services R...

8:25 AM

Serial Number: G6236218

Model: M24 SWS



RE00131314

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: G6236218.___0
FILE DATE AND TIME: 08/17/2007 10:19

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	0.099
The Average Y Centroid of the Five Target Set:	-0.036
The Average Point of Impact of the Five Target Set:	0.105
The Average Mean Radius of the Five Target Set:	0.697
The Distance from POA to Centroid Target #1:	0.082
The Distance from Centroid Target #2 to Centroid Target #1:	0.152
The Distance from Centroid Target #3 to Centroid Target #1:	0.101
The Distance from Centroid Target #4 to Centroid Target #1:	0.059
The Distance from Centroid Target #5 to Centroid Target #1:	0.157

SERIAL NUMBER: G6236218. __0

TARGET NUMBER: 1

FILE DATE: 08/17/2007

FILE TIME: 10:19

POINT#	X	Y
1:	1.553	-0.400
2:	1.134	-0.535
3:	0.307	-0.399
4:	0.008	1.084
5:	-0.135	-0.378
6:	-0.693	-0.434
7:	-0.484	-0.200
8:	-0.399	0.010
9:	-0.325	0.255
10:	-0.562	0.279

X CENTROID: 0.040

Y CENTROID: -0.072

POA TO CENTROID: 0.082

HORZ SPREAD: 2.246

VERT SPREAD: 1.619

GROUP SPREAD: 2.246

MIN RADIUS: 0.353

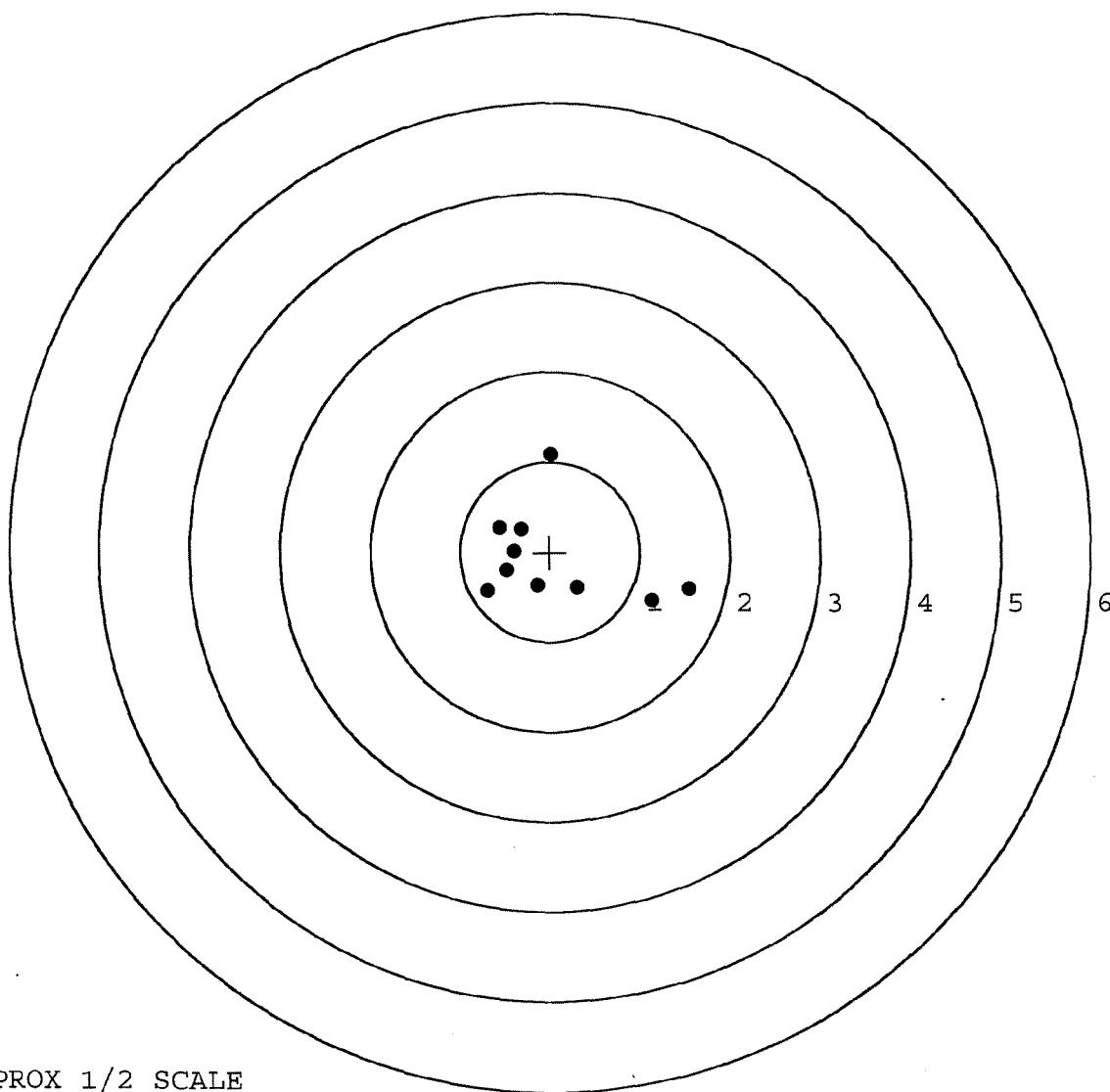
MAX RADIUS: 1.548

MEAN RADIUS: 0.766

IN 1 IN DIAMETER: 4

IN 2 IN DIAMETER: 7

in 3 IN DIAMETER: 9

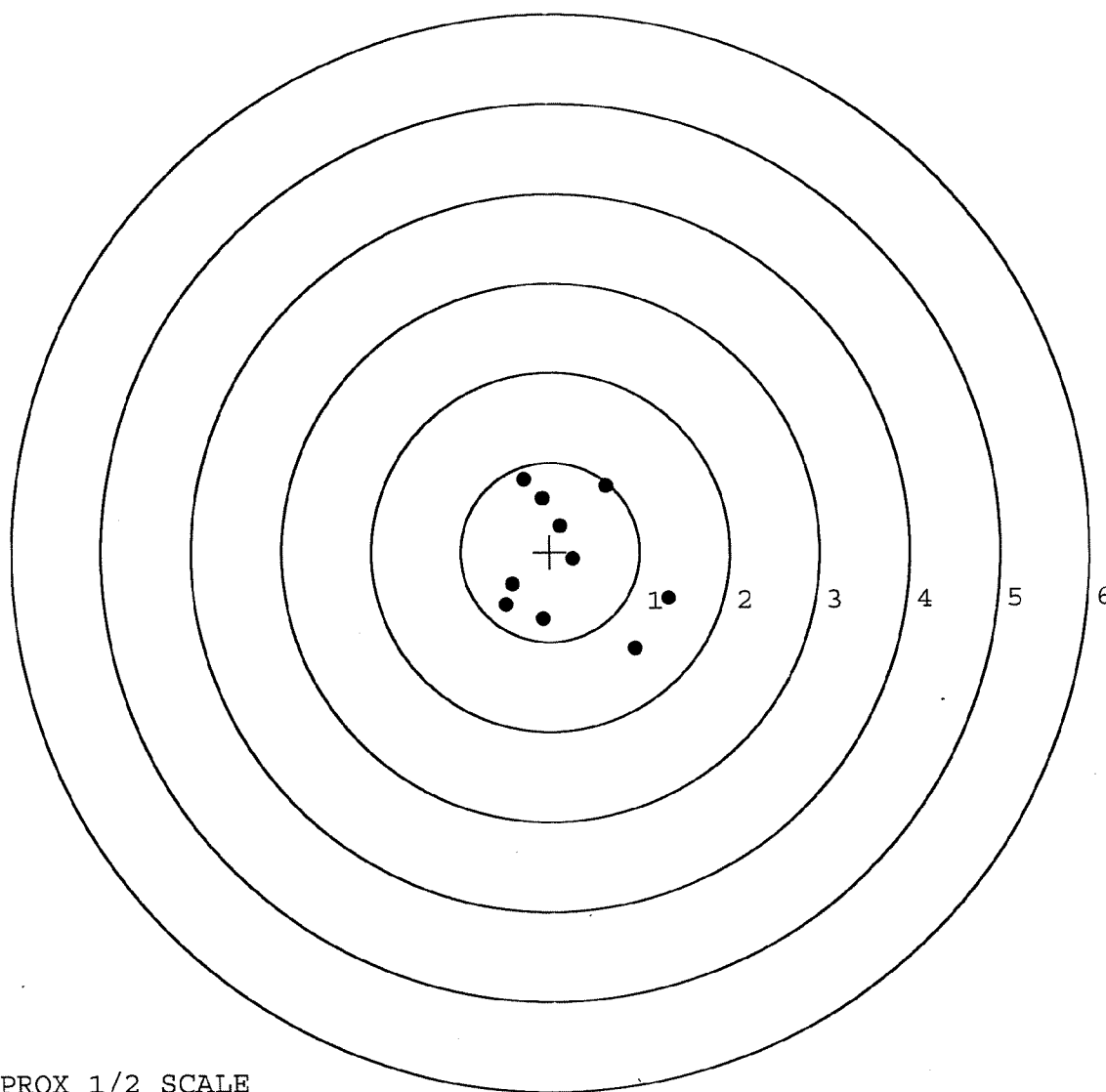


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: G6236218. __0
TARGET NUMBER: 2
FILE DATE: 08/17/2007
FILE TIME: 10:19

POINT#	X	Y
1:	0.942	-1.082
2:	1.319	-0.527
3:	-0.085	-0.747
4:	0.260	-0.084
5:	0.633	0.731
6:	0.119	0.289
7:	-0.081	0.597
8:	-0.287	0.810
9:	-0.421	-0.365
10:	-0.494	-0.588

X CENTROID: 0.190
Y CENTROID: -0.097
POA TO CENTROID: 0.214
HORZ SPREAD: 1.813
VERT SPREAD: 1.892
GROUP SPREAD: 2.256
MIN RADIUS: 0.071
MAX RADIUS: 1.239
MEAN RADIUS: 0.783
IN 1 IN DIAMETER: 2
IN 2 IN DIAMETER: 7
in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: G6236218. __0

TARGET NUMBER: 3

FILE DATE: 08/17/2007

FILE TIME: 10:19

POINT#	X	Y
1:	1.071	0.553
2:	0.904	0.128
3:	0.412	-0.429
4:	0.315	-0.259
5:	-0.007	-0.021
6:	-0.511	-0.688
7:	-0.312	0.236
8:	-0.369	-0.120
9:	-0.795	0.031
10:	-0.051	0.826

X CENTROID: 0.066

Y CENTROID: 0.026

POA TO CENTROID: 0.071

HORZ SPREAD: 1.866

VERT SPREAD: 1.514

GROUP SPREAD: 2.011

MIN RADIUS: 0.086

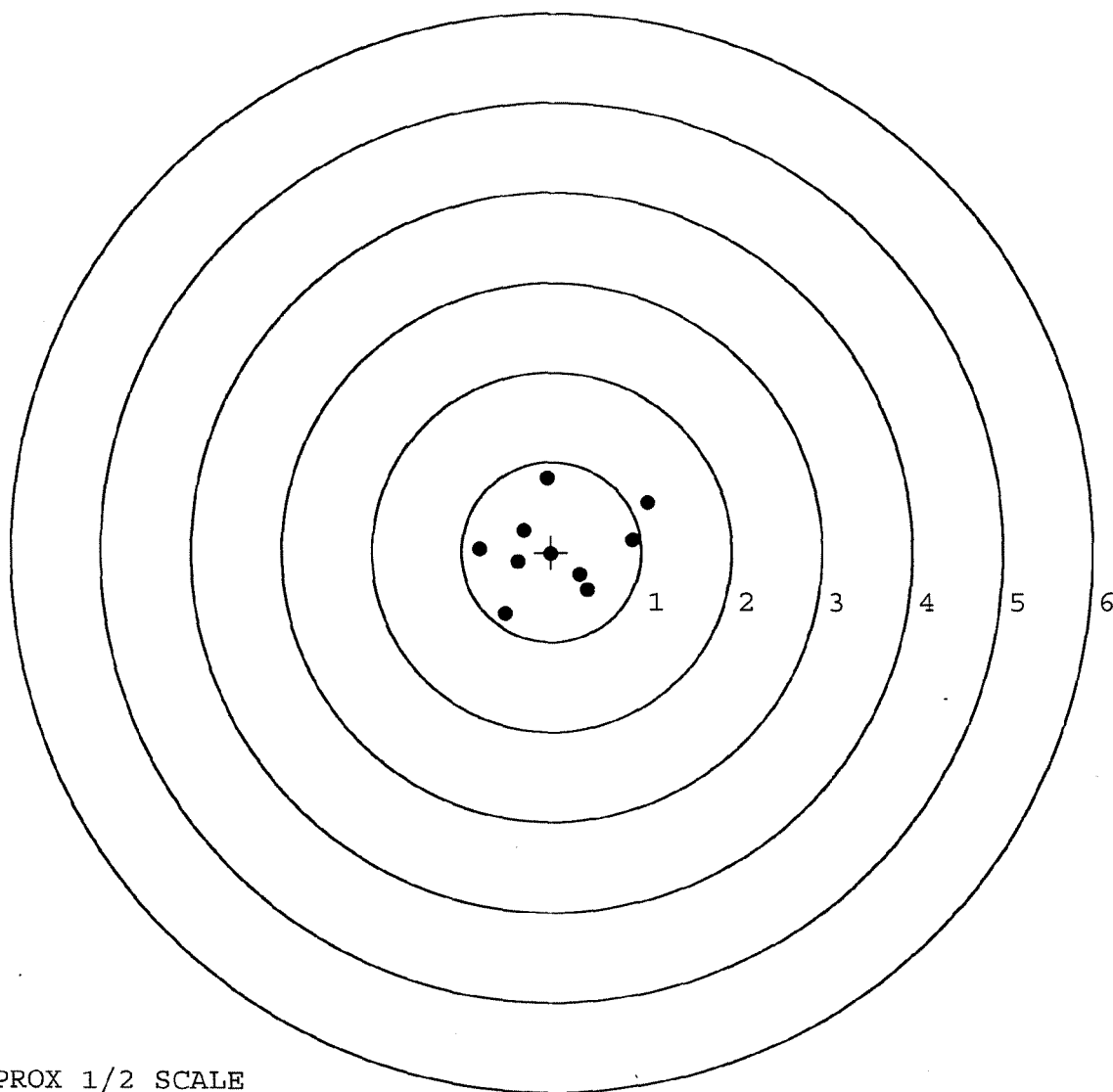
MAX RADIUS: 1.135

MEAN RADIUS: 0.649

IN 1 IN DIAMETER: 4

IN 2 IN DIAMETER: 9

in 3 IN DIAMETER: 10

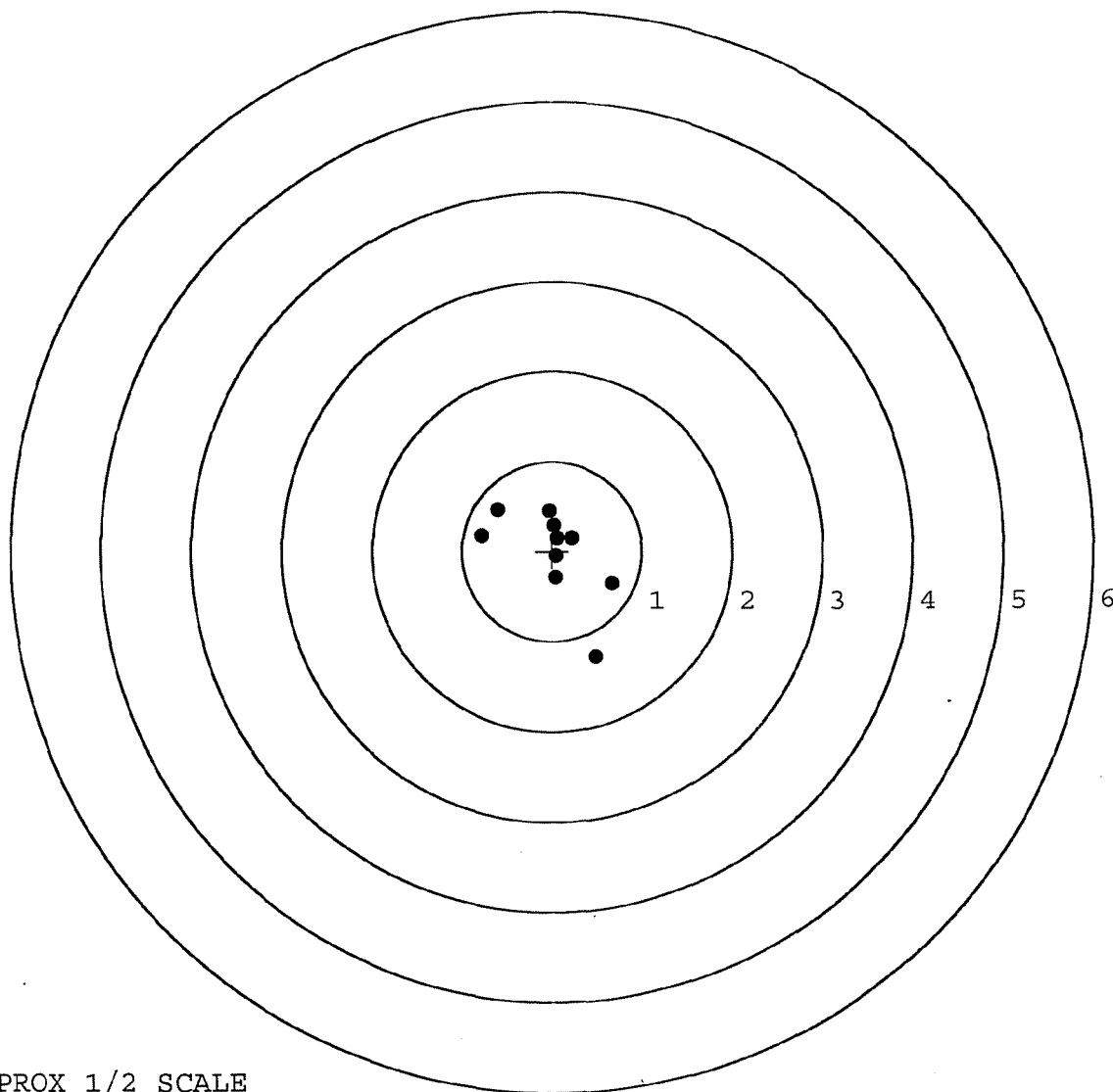


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: G6236218. __0
TARGET NUMBER: 4
FILE DATE: 08/17/2007
FILE TIME: 10:19

POINT#	X	Y
1:	0.487	-1.175
2:	0.673	-0.365
3:	0.043	-0.296
4:	0.046	-0.057
5:	0.220	0.151
6:	0.026	0.292
7:	-0.031	0.450
8:	0.056	0.148
9:	-0.786	0.183
10:	-0.606	0.467

X CENTROID: 0.013
Y CENTROID: -0.020
POA TO CENTROID: 0.024
HORZ SPREAD: 1.459
VERT SPREAD: 1.642
GROUP SPREAD: 1.973
MIN RADIUS: 0.050
MAX RADIUS: 1.248
MEAN RADIUS: 0.516
IN 1 IN DIAMETER: 6
IN 2 IN DIAMETER: 9
in 3 IN DIAMETER: 10

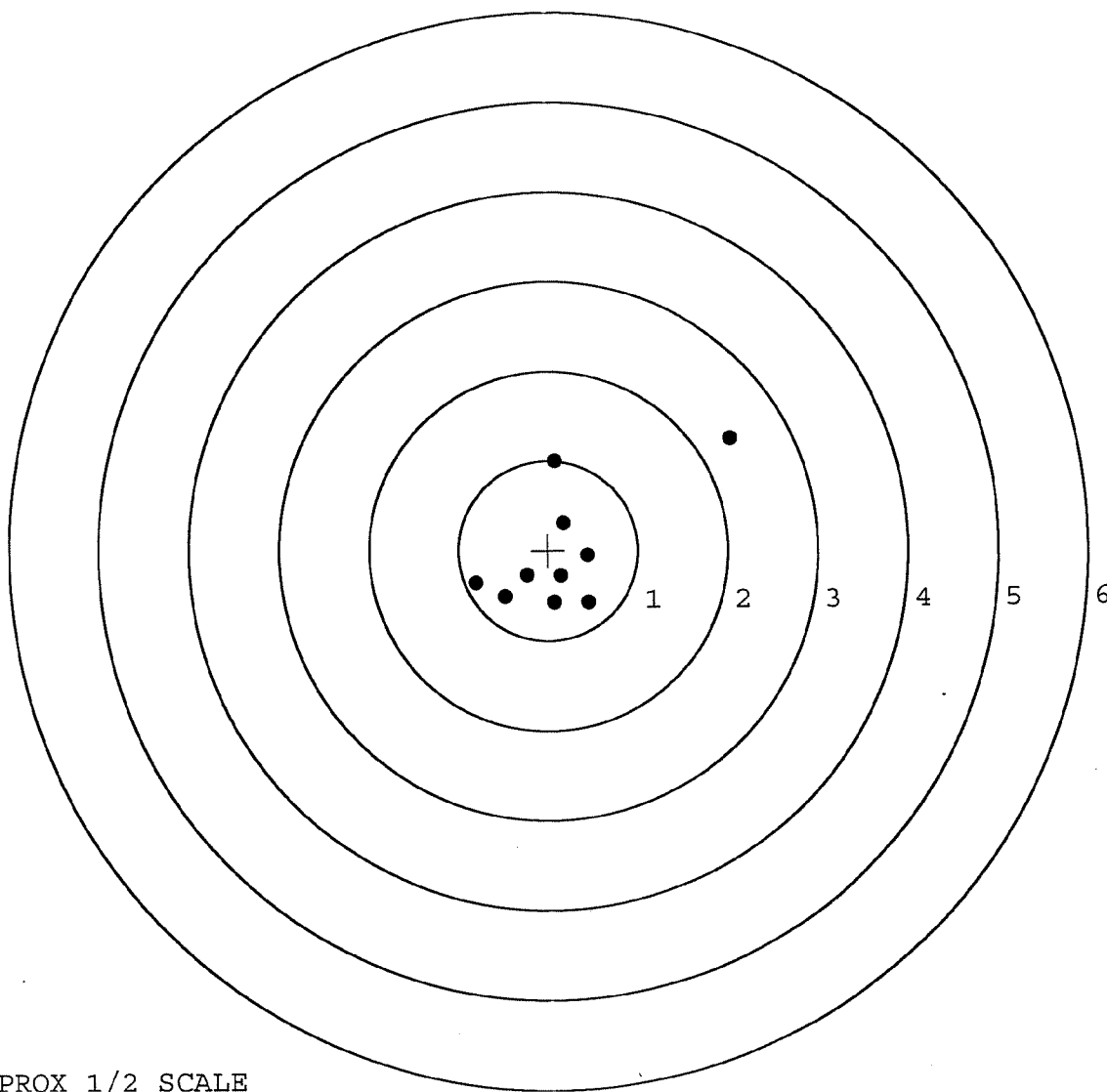


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: G6236218. __0
TARGET NUMBER: 5
FILE DATE: 08/17/2007
FILE TIME: 10:19

X CENTROID: 0.187
Y CENTROID: -0.015
POA TO CENTROID: 0.188
HORZ SPREAD: 2.839
VERT SPREAD: 1.823
GROUP SPREAD: 3.262
MIN RADIUS: 0.261
MAX RADIUS: 2.230
MEAN RADIUS: 0.771
IN 1 IN DIAMETER: 3
IN 2 IN DIAMETER: 7
in 3 IN DIAMETER: 9

POINT#	X	Y
1:	2.031	1.240
2:	0.081	0.994
3:	0.179	0.304
4:	0.443	-0.063
5:	0.453	-0.583
6:	0.146	-0.287
7:	0.068	-0.583
8:	-0.238	-0.284
9:	-0.485	-0.519
10:	-0.808	-0.366



TARGET APPROX 1/2 SCALE

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

R & E NUMBER 131314
SERIAL NUMBER G6236218
LOG-IN DATE 7-12-07

OPERATION #	OPERATION NAME	DATE	INITIAL
500	DIS-ASSEMBLE GUN	8-7-07	RTZ
505	RE-BARREL	8-8-07	RTZ
560	ASSEMBLE	8-8-07	RTZ
600	PROOF	8-9-07	mm
605	CHECK HEADSPACE	8-9-07	mm
610	DIS-ASSEMBLE GUN	8-9-07	SD
612	MAGNAFLUX	8-14-07	NAS
510	DRILL AND TAP	8-10-07	TRW
615	ROLLMARK CALIBER	8-10-07	CW
618	ROTO-BLAST	8-14-07	LY
620	APPLY COATINGS	8-15-07	RB
625	FINAL ASSEMBLY	8-16-07	RTZ
640	FUNCTION TEST AND	8-17-07	TRW
650	TARGET	8-17-07	TRW
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
670	FINAL INSPECTION	8-17-07	Fm
	A) HEADSPACE	8-18-07	mm
	B) TRIGGER PULL	2.32 2.25 2.24 2.36 2.59	8/18/07 mm
680	F) SAFETY ON FORCE	5.0 4.75 5.25	8/18/07 mm
	G) SAFETY OFF FORCE	2.50 3.0 2.50	8/18/07 mm
	I) FIRING PIN INDENT	.023 .023 .023	8/18/07 mm
690	PACK	8-21-07	RTZ

M-24
INSPECTION CHECKLIST-NEW GUNS

GUN SERIAL # G623 6218

OP #	OPERATION NAME	READINGS	DATE	INITIAL
575 & 580	ASSEMBLE ACTION AND STOCK		9/5/02	RL
600	PROOF			
607	CHECK HEADSPACE	MAGFLUX - FLUX INSPECTED	9/9/02	RL
610	DIS-ASSEMBLE GUN	SEP 10 2002	9/9/02	RL
612	MAGNAFLUX BBL ACTION MAGNAFLUX BOLT	OPERATOR <u>RL</u>		
615	ROLLMARK CALIBER		9/10	BS
617	DRILL AND TAP SIGHT HOLES		9-11-02	AC
620	APPLY COATINGS (BARREL ACTION)		9-18	TA
	(BOLT)		9-18	TA
625	FINAL ASSEMBLY A) CLEAN INSIDE OF BOLT ASSEMBLY		9-20-02	RW
	B) INSPECT REAR FIRING PIN HOLE FOR CHAMFER IN BOLT HEAD		9-20-02	RW
	C) INSPECT EJECTOR HOLE FOR CHAMFER		9-20-02	RW
	D) OIL FIRING PIN ASSEMBLY		9-20-02	RW
	E) ADJUST TRIGGER PULL TO MIN. SETTING AND STAKE 2.50 LBS +/- .5 LBS		12-3-02	RL

OP #	OPERATION NAME	READINGS	DATE	INITIAL
625	F) SAFETY ON FORCE 2 LBS MIN 10 LBS MAX	<u>5.5</u> <u>5.5</u> <u>5.5</u>	10-3-02	OA
CONT.	G) SAFETY OFF FORCE 2 LBS MIN	<u>3.5</u> <u>2.5</u> <u>2.5</u>	10-3-02	OA
	H) TRIGGER PULL TEST AND RETAINABILITY		12-3-02	RL
	I) FIRING PIN INDENT .020 MIN	<u>.022</u> <u>.023</u> <u>.022</u>	10-3-02	OA
	J) ASSEMBLE STOCK		9-27-02	RW
	K) ASSEMBLE SWIVEL STUDS		12-3-02	RL
	L) ATTACH FRONT AND REAR SIGHT ASSY'S		10/29/02	RL
	M) IRON SIGHT ALIGNMENT		10/29/02	RL
	N) DETACH FRONT AND REAR SIGHTS AND PLACE IN NUMBERED CONTAINER		10/29/02	RL
640	GALLERY TEST AND TARGET	PASS FAIL	9/30/02	TRW
	MALFUNCTION	CORRECTION	9/30/02	TRW
	MALFUNCTION	CORRECTION	9/30/02	TRW
	MALFUNCTION	CORRECTION	9/30/02	TRW
	MALFUNCTION	CORRECTION	9/30/02	TRW
645	INSPECT FOR LIVE AMMO		9/30/02	TRW
655	FINAL INSPECTION A) HEADSPACE		12-3-02	RL
	B) TRIGGER PULL +/- .5 LBS MIN 2.50 LBS MAX 4.0 LBS	<u>2.72</u> <u>2.80</u> <u>2.70</u> <u>2.72</u> <u>2.74</u>	10/3/02	RL
	C) FUNCTION		12-3-02	RL
660	PACK		10-3-02	OA

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

DATE 9-27-02

TESTER TRW

66236218

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#	COMMENTS
PULL #1	2.45	2.41	2.62	MIN. SETTING,
PULL #2	2.66	2.35	2.64	NO AVG. OF 5
PULL #3	2.62	2.38	2.73	READINGS ACCEPT-
PULL #4	2.57	2.37	2.47	ABLE LESS THAN 2
PULL #5	2.25	2.62	2.74	
TOTAL	12.55	12.13	13.20	
AVG.	2.51	2.42	2.64	

	3.00# INITIAL	3.00# AFTER 20 CYCLES	COMMENTS
PULL #1	3.44	3.42	
PULL #2	3.17	3.18	
PULL #3	3.24	3.28	
PULL #4	3.21	3.32	
PULL #5	3.29	3.31	
TOTAL	16.35	16.51	
AVG.	3.27	3.30	

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCUR
PULL #1	4.15	4.36		4.05
PULL #2	4.29	4.13		4.03
PULL #3	4.24	4.20		4.05
PULL #4	4.13	4.19		4.33
PULL #5	4.20	4.28		4.17
TOTAL	21.01	21.16		20.63
AVG.	4.20	4.23		4.12

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: G6236218.___0
FILE DATE AND TIME: 10/01/2002 12:12

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	-0.145
The Average Y Centroid of the Five Target Set:	0.061
The Average Point of Impact of the Five Target Set:	0.158
The Average Mean Radius of the Five Target Set:	0.748
The Distance from POA to Centroid Target #1:	0.408
The Distance from Centroid Target #2 to Centroid Target #1:	0.354
The Distance from Centroid Target #3 to Centroid Target #1:	0.312
The Distance from Centroid Target #4 to Centroid Target #1:	0.277
The Distance from Centroid Target #5 to Centroid Target #1:	0.423

SERIAL NUMBER: G6236218.___0

TARGET NUMBER: 1

FILE DATE: 10/01/2002

FILE TIME: 12:12

POINT#	X	Y
1:	0.219	-0.915
2:	0.143	-0.814
3:	0.329	-0.391
4:	-0.725	-1.411
5:	0.014	0.233
6:	-0.245	0.443
7:	-0.623	0.172
8:	-0.684	0.446
9:	-1.029	1.441
10:	-1.260	2.126

X CENTROID: -0.386

Y CENTROID: 0.133

POA TO CENTROID: 0.408

HORZ SPREAD: 1.589

VERT SPREAD: 3.537

GROUP SPREAD: 3.577

MIN RADIUS: 0.240

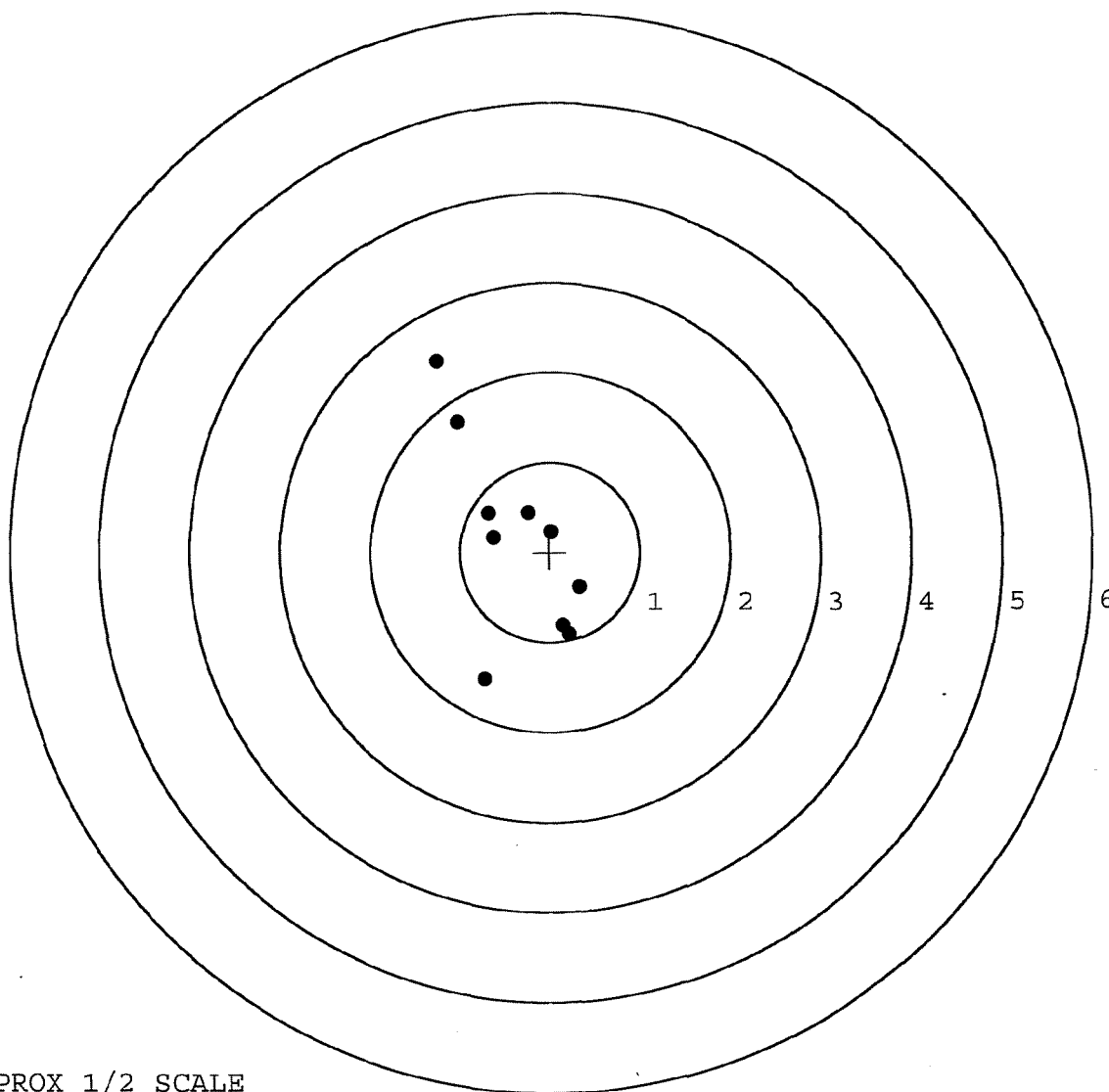
MAX RADIUS: 2.176

MEAN RADIUS: 0.982

IN 1 IN DIAMETER: 4

IN 2 IN DIAMETER: 5

in 3 IN DIAMETER: 8



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: G6236218. 0

TARGET NUMBER: 2

FILE DATE: 10/01/2002

FILE TIME: 12:12

POINT#	X	Y
1:	0.096	-0.969
2:	0.038	-0.565
3:	0.401	-0.288
4:	0.138	0.210
5:	-0.980	-0.070
6:	-0.654	0.619
7:	-0.456	0.605
8:	0.045	1.020
9:	0.308	1.036
10:	0.066	-2.352

X CENTROID: -0.100

Y CENTROID: -0.075

POA TO CENTROID: 0.125

HORZ SPREAD: 1.381

VERT SPREAD: 3.388

GROUP SPREAD: 3.397

MIN RADIUS: 0.371

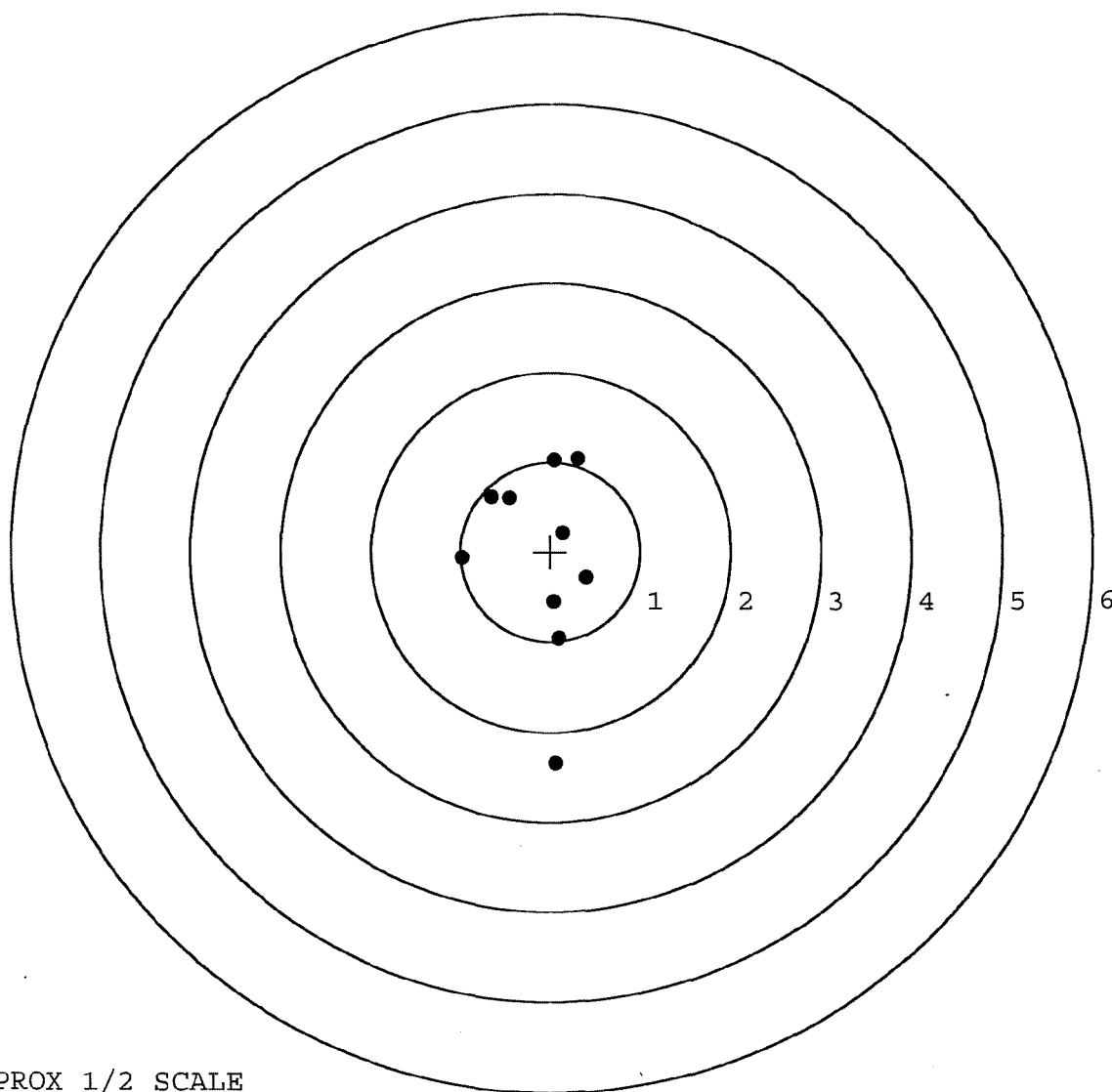
MAX RADIUS: 2.283

MEAN RADIUS: 0.945

IN 1 IN DIAMETER: 1

IN 2 IN DIAMETER: 7

in 3 IN DIAMETER: 9

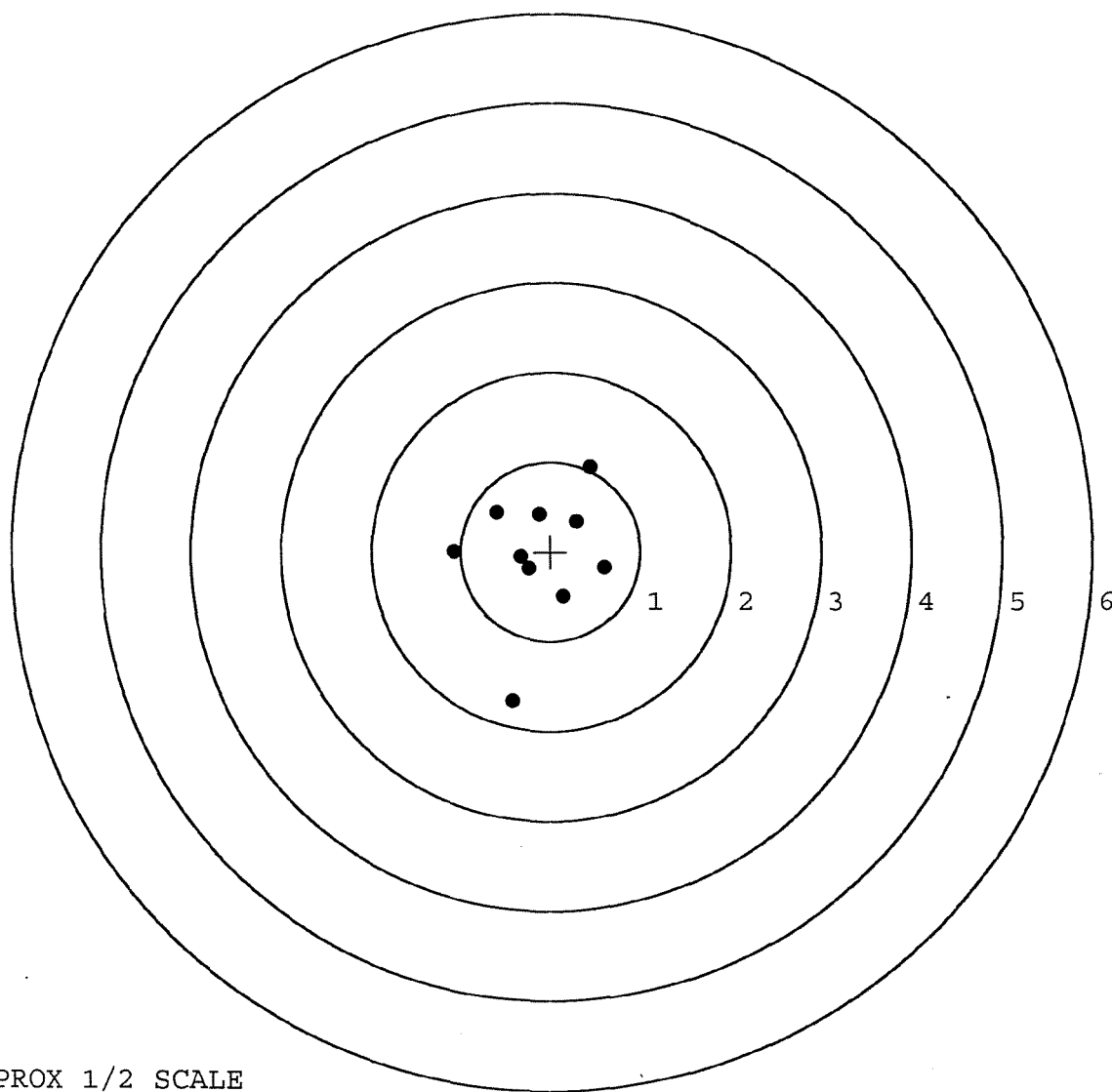


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: G6236218. 0
TARGET NUMBER: 3
FILE DATE: 10/01/2002
FILE TIME: 12:12

POINT#	X	Y
1:	0.604	-0.184
2:	0.143	-0.506
3:	-0.242	-0.196
4:	-0.333	-0.061
5:	-1.076	0.002
6:	-0.603	0.437
7:	-0.129	0.417
8:	0.290	0.338
9:	0.441	0.945
10:	-0.415	-1.679

X CENTROID: -0.132
Y CENTROID: -0.049
POA TO CENTROID: 0.141
HORZ SPREAD: 1.680
VERT SPREAD: 2.624
GROUP SPREAD: 2.760
MIN RADIUS: 0.184
MAX RADIUS: 1.655
MEAN RADIUS: 0.713
IN 1 IN DIAMETER: 3
IN 2 IN DIAMETER: 8
in 3 IN DIAMETER: 9



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: G6236218. __0

TARGET NUMBER: 4

FILE DATE: 10/01/2002

FILE TIME: 12:12

POINT#	X	Y
1:	0.042	-0.996
2:	0.015	-0.621
3:	0.678	0.620
4:	0.135	0.507
5:	0.101	0.250
6:	-0.064	0.160
7:	-0.529	0.486
8:	-0.463	0.729
9:	-0.725	0.644
10:	-0.553	0.739

X CENTROID: -0.136

Y CENTROID: 0.252

POA TO CENTROID: 0.286

HORZ SPREAD: 1.403

VERT SPREAD: 1.735

GROUP SPREAD: 1.834

MIN RADIUS: 0.117

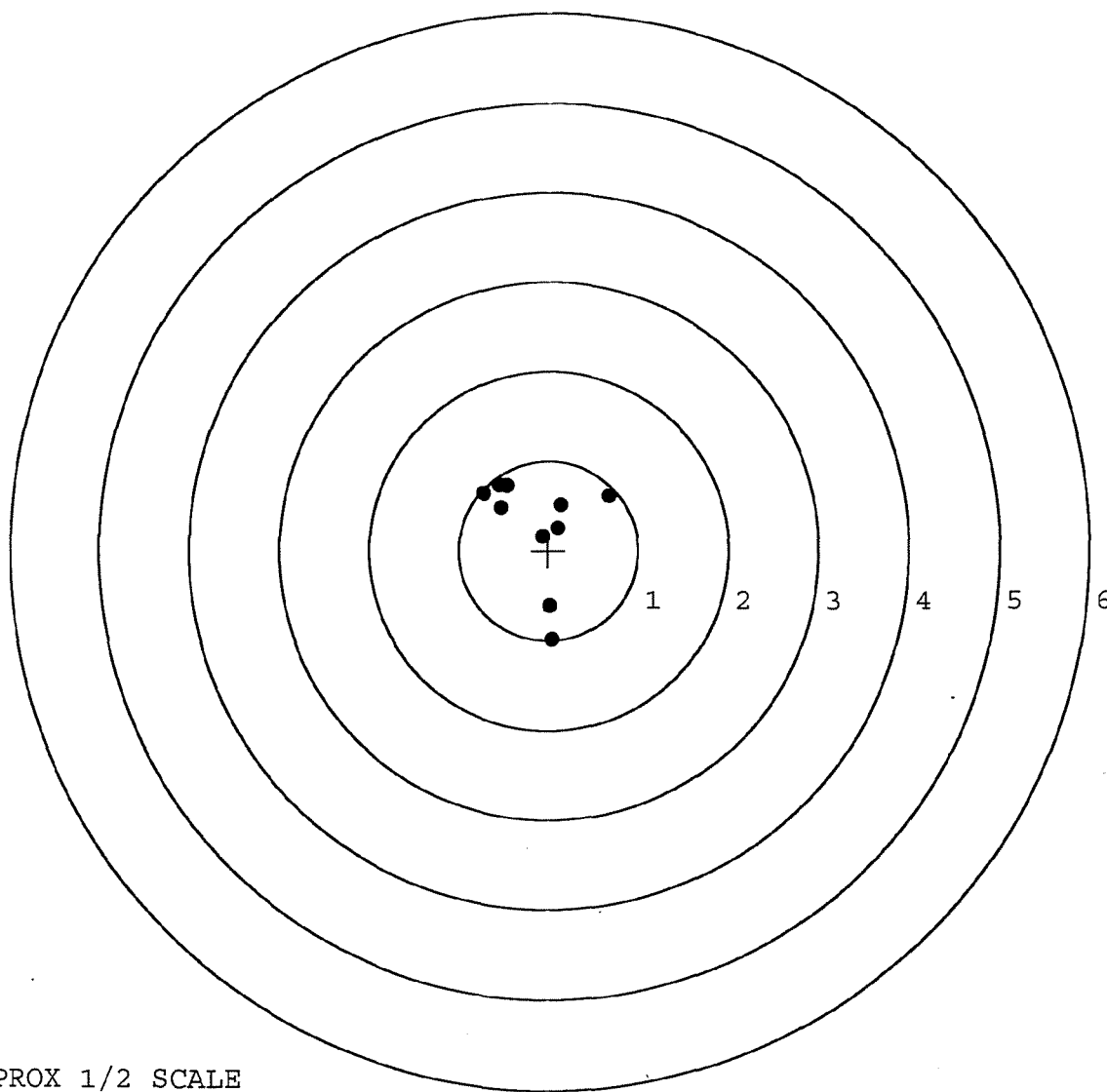
MAX RADIUS: 1.260

MEAN RADIUS: 0.615

IN 1 IN DIAMETER: 4

IN 2 IN DIAMETER: 9

in 3 IN DIAMETER: 10

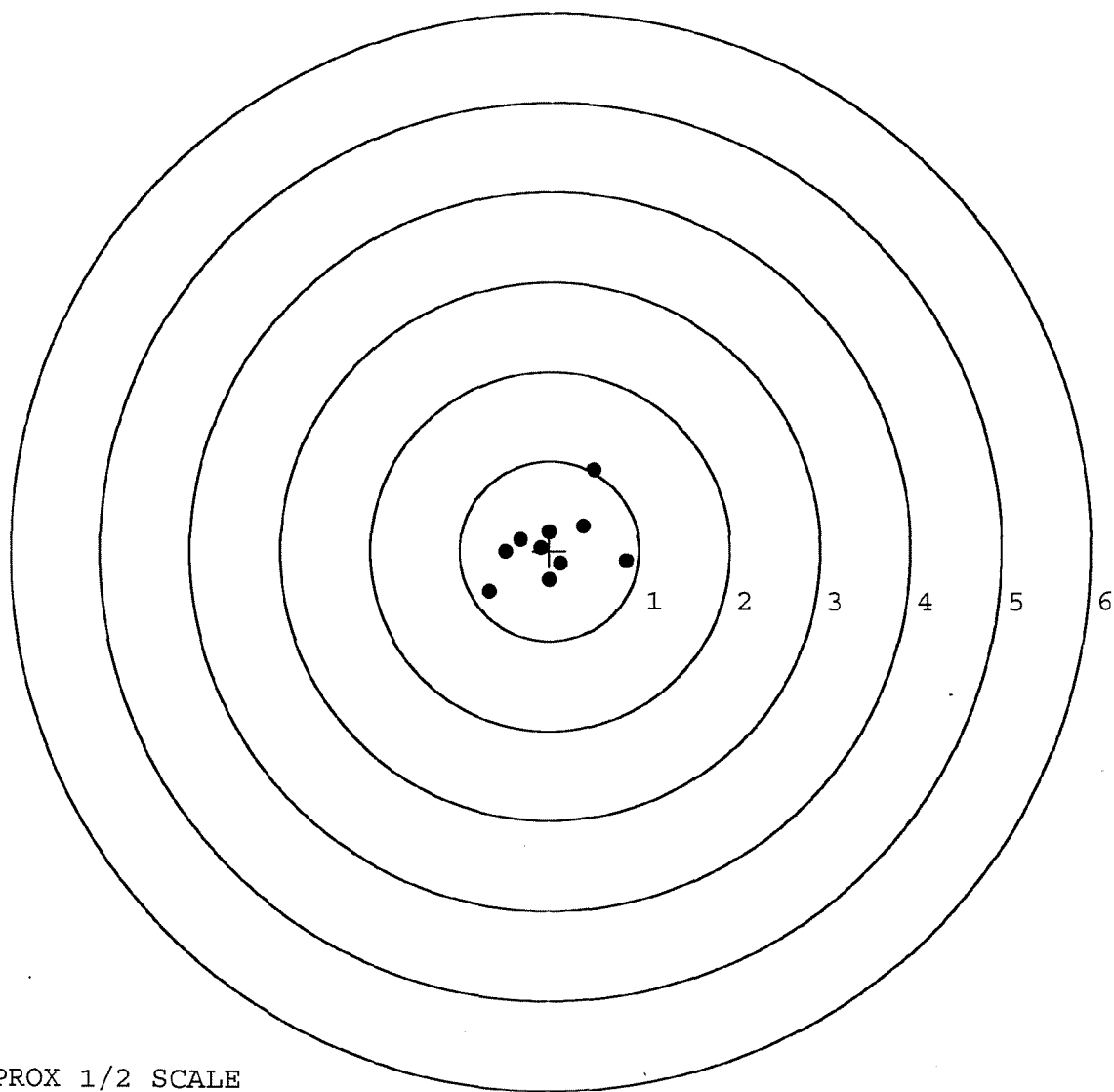


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: G6236218. 0
TARGET NUMBER: 5
FILE DATE: 10/01/2002
FILE TIME: 12:12

X CENTROID: 0.028
Y CENTROID: 0.047
POA TO CENTROID: 0.055
HORZ SPREAD: 1.525
VERT SPREAD: 1.362
GROUP SPREAD: 1.793
MIN RADIUS: 0.123
MAX RADIUS: 0.977
MEAN RADIUS: 0.485
IN 1 IN DIAMETER: 6
IN 2 IN DIAMETER: 10
in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.855	-0.117
2:	0.496	0.904
3:	-0.670	-0.458
4:	0.006	-0.330
5:	0.120	-0.151
6:	-0.487	-0.016
7:	-0.322	0.124
8:	-0.094	0.033
9:	0.002	0.208
10:	0.377	0.270



TARGET APPROX 1/2 SCALE