

C6636222

MODEL 700™ M24

Model **SMS**™

Action

Barrel Length

Capacity

Order No. **5716**

*Includes 1 in chamber.



BARBER - M24 0031893

Remington



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

MODEL 700™ M24

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

20

SERIAL NO.
C6636222

ORDER NO.
5716



5716 C6636222

UPC



0 47700 25716 7

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

BARBER - M24 00318931932

CONTRACT # DAAA21-87-C-0086

GUN SERIAL #

C6636222

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock		5/3/91	KS
600	Proof		5/3/91	KS
607	Check Headspace		5/3/91	KS
610	Dis-assemble Gun		5/3/91	KS
612	Magnaflux Barrel Action	5 6 9 1		KCD
	Magnaflux Bolt	5 6 9 1		KCD
615	Rollmark Caliber	5 6 9 1		GL
617	Drill and Tap Sight Holes	5 15 9 1		LB
618	Polish Barrel	5 15 9 1		WB
620	Apply Coatings (Barrel Action)		5-29-91	
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		4/4/91	KS
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		4/4/91	KS
	C) Inspect Ejector Hole for Chamfer		4/4/91	KS
	D) Oil Firing Pin Ass'y		4/4/91	KS
	E) Adjust Trigger Pull to Min Setting and Stake		6/6/91	WB

op. #	BARBER - M24 0031895	READINGS					DATE	INIT
625 cont.	F) Safety On Force	6 1/2	6 1/2	6 1/2			6/6/91	WB
	G) Safety Off Force	7 1/2	7 1/2	7 1/2			6/6/91	WB
	H) Trigger Pull Test & Retainability						6/6/91	WB
	I) Firing Pin Indent	.0205	.020	.020			6/6/91	WB
	J) Assemble Stock						4/4/91	KS
	K) Assemble Swivel Studs						6-8-91	D/H
	L) Attach Front and Rear Sight Assemblies						4/4/91	KS
	M) Iron Sight Alignment						4/4/91	KS
	N) Detach Front & Rear Sights & place in numbered container						4/4/91	KS
	O) Attach Scope to Rifle						4/4/91	KS
	P) Detach & Attach Scope 20 Times						4/4/91	KS
640	Gallery Target & Test						6/7/91	KT
	A) Time						"	KT
	B) Malfunctions						"	KT
	C) Pierced Primers						"	KT
	D) Optical Clarity of Scope						"	KT
645	Inspect for Live Ammo						6/7/91	KT
655	Final Inspection							
	A) Headspace						6-8-91	D/H
	B) Trigger Pull	2.24	2.40	2.27	2.38	2.36	6-8-91	KS
	C) Function						6-8-91	D/H
660	Pack						6-20-91	KS

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

SERIAL NO. C6636222
DATE 6/6/91
TESTER WB

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.49	2.48	2.43	2.24	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.43	2.50	2.29	2.40	
PULL #3	2.52	2.60	2.34	2.27	
PULL #4	2.52	2.49	2.29	2.38	
PULL #5	2.55	2.63	2.33	2.36	
TOTAL	12.51	12.70	11.68		
AVG.	2.50	2.54	2.34		

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.76	3.30		
PULL #2	2.95	3.11		
PULL #3	3.18	3.41		
PULL #4	3.19	3.31		
PULL #5	3.11	3.05		
TOTAL	15.59	16.18		
AVG.	3.12	3.23		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.30	4.29		3.98
PULL #2	4.34	4.30		3.80
PULL #3	4.36	4.37		3.93
PULL #4	4.33	4.19		3.92
PULL #5	4.33	4.40		3.98
TOTAL	21.66	21.53		19.61
AVG.	4.33	4.31		3.92

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6636222
7 Jun 1991

CENTROIDAL DISTANCES

0 TO	1	.0693542
1 TO	2	.297545
1 TO	3	.137594
1 TO	4	.094578
1 TO	5	.147462

POA <----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .0392
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .0346
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .0522858
THE AMR FOR THIS RIFLE IS: .86

7 Jun 1991

FILE:/PATTERNING/CENTERFIRE_PATT/06636222

CENTERFIRE PATTERNS # 1

POA

1 in circle

2 in circle

3 in circle

OF SHOTS- 10

IN CIR

1 in = 5

2 in = 8

3 in = 9

HS= 1.502

VS= 3.227

GS= 3.313

CENTROID #

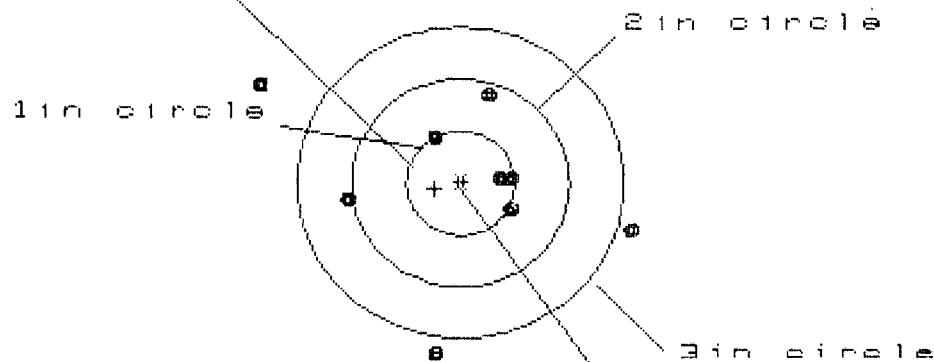
PATTERN #	:	1	2	3
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.602	.502	.471
MINIMUM X	:	-.900	-.357	-.389
MAXIMUM Y	:	1.008	.761	.612
MINIMUM Y	:	-2.219	-.630	-.534
CENTROID X	:	-.061	.039	.071
CENTROID Y	:	.033	.280	.184
POA TO CENTROID in.	:	.069	.282	.197
MIN RADIUS	:	.141	.079	.084
MEAN RADIUS	:	.687	.472	.409
MAX RADIUS	:	2.395	.801	.725
HORIZONTAL SPREAD	:	1.502	.859	.859
VERTICAL SPREAD	:	3.227	1.391	1.146
EXTREME SPREAD	:	3.313	1.394	1.235
NUMBER IN ONE INCH CIRCLE	=	5		
NUMBER IN TWO INCH CIRCLE	=	8		
NUMBER IN THREE INCH CIRCLE	=	9		

7 Jun 1991

FILE:/PATTERNING/CENTERFIRE_PATT/06636222

CENTERFIRE PATTERNS # 2

POA



OF SHOTS - 10

IN CIR

1in = 3

2in = 5

3in = 7

HS = 3.383

VS = 2.575

GS = 3.672

CENTROID #

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.544	1.340	1.281
MINIMUM X	:	-1.839	-1.222	-1.281
MAXIMUM Y	:	.936	.993	.801
MINIMUM Y	:	-1.639	-1.535	-.580
CENTROID X	:	.236	.441	.500
CENTROID Y	:	.051	-.053	.139
POA TO CENTROID in.	:	.242	.444	.519
MIN RADIUS	:	.334	.206	.071
MEAN RADIUS	:	.952	.778	.610
MAX RADIUS	:	2.063	1.606	1.406
HORIZONTAL SPREAD	:	3.383	2.562	2.562
VERTICAL SPREAD	:	2.575	2.528	1.381
EXTREME SPREAD	:	3.672	2.584	2.582
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		6	
NUMBER IN THREE INCH CIRCLE	=		7	

7 Jun 1991

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CENTERFIRE PATTERNS # 3

POA

1 in circle

2 in circle

3 in circle

OF SHOTS - 10

IN CIR

1 in = 3

2 in = 6

3 in = 10

HS = 2.230

VS = 2.067

GS = 2.394

CENTROID *

PATTERN #	3
SHOTS (BEST OF)	10
MAXIMUM X	1.492
MINIMUM X	-.738
MAXIMUM Y	.853
MINIMUM Y	-1.214
CENTROID X	.055
CENTROID Y	-.041
POA TO CENTROID in.	.069
MIN RADIUS	.239
MEAN RADIUS	.809
MAX RADIUS	1.498
HORIZONTAL SPREAD	2.230
VERTICAL SPREAD	2.067
EXTREME SPREAD	2.394
NUMBER IN ONE INCH CIRCLE =	3
NUMBER IN TWO INCH CIRCLE =	6
NUMBER IN THREE INCH CIRCLE =	10

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FILE:/PATTERNING/CENTERFIRE_PATT/06636222

CENTERFIRE PATTERNS # 4

POA

1in circle

2in circle

3in circle

OF SHOTS - 10

IN CIR

1in = 0

2in = 6

3in = 7

HS = 2.398

VS = 2.957

GS = 3.236

CENTROID *

PATTERN #	:	14	15	16
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.120	1.098	1.195
MINIMUM X	:	-1.278	-1.300	-1.203
MAXIMUM Y	:	1.120	.915	.704
MINIMUM Y	:	-1.837	-1.694	-.616
CENTROID X	:	-.009	.013	-.084
CENTROID Y	:	-.046	.159	.370
POA TO CENTROID in.	:	.046	.159	.380
MIN RADIUS	:	.606	.423	.302
MEAN RADIUS	:	1.091	.969	.823
MAX RADIUS	:	1.848	1.863	1.387
HORIZONTAL SPREAD	:	2.398	2.398	2.398
VERTICAL SPREAD	:	2.957	2.609	1.320
EXTREME SPREAD	:	3.236	2.858	2.483
NUMBER IN ONE INCH CIRCLE	=	0		
NUMBER IN TWO INCH CIRCLE	=	6		
NUMBER IN THREE INCH CIRCLE	=	7		

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FILE:/PATTERNING/CENTERFIRE_PATT/C6636222

CENTERFIRE PATTERNS # 5

POA

1 in circle

2 in circle

3 in circle

OF SHOTS- 10

IN CIR

1 in = 2

2 in = 8

3 in = 9

HS= 2.234

VS= 1.964

GS= 2.890

CENTROID #

PATTERN #	5
SHOTS (BEST OF)	10
MAXIMUM X	.961
MINIMUM X	-1.273
MAXIMUM Y	1.262
MINIMUM Y	-.702
CENTROID X	-.025
CENTROID Y	.176
POA TO CENTROID in.	.178
MIN RADIUS	.203
MEAN RADIUS	.761
MAX RADIUS	1.587
HORIZONTAL SPREAD	2.234
VERTICAL SPREAD	1.964
EXTREME SPREAD	2.890
NUMBER IN ONE INCH CIRCLE	2
NUMBER IN TWO INCH CIRCLE	8
NUMBER IN THREE INCH CIRCLE	9