## Remington Arms Company, Inc. Ilion Research Division

TO: J. P. LINDE

## WORK SCHEDULE

Priority Code

AA ) - Top Priority, Urgent Need (list completion date)

A - Current Project, 1st Priority (list completion date)

B - Current Project, 2nd Priority
C - Future Project
P - Follow-up of Completed Projects

	Com	pleti on		
		ate	Responsibility	Priorit
ODEL 870 TRAP GOUN PROGRAM	ş			
		- 19		
Super Trap Gin Design		Service Control	Control State	
a) Determine gun parameters	<b>4-</b> ]	5-77	P. Nasypany	A
			24.	
b) Two (2) Prototype Models being made; one with star	ndard 5	1.77		
32" Vent Rib Barrel, and one with the adjustable rib	(item c) 🖟	A MON		
1. Design work completed except for Fore-end	Assm. 5.	1-77		7
2. Drawings made and parts being received from		7		17.0
Model Shop	K by same at the con-			Ser.
				N.
3. Drawings and parts needed for piston velocity	y	1-77		
measurements being made	No har			
A Decad at Till Trible in				
4. Function and Field Tests to be made.	5-1	0-77	ring ang Artagraph Project - Barton Lin	
5. Piston velocity and shoulder force measurem	ente 5-1	5-77		
to be taken.				
		4		
6Endurance testing.	<b>ó-</b>	1-77		
				re. Fantan

			Completion		— <del>—</del>
	•	•	Date	Responsibility	Priority
MODEL 870 TRAP GUN PROGRAM	- Cont'd.	• • • • •	A STATE OF THE STA		
1. Super Trap Gun Design - Cont'd				- 10 m	
N. W.					
c) Adjustable Rib				D. R. Lewis	. A
1. Preliminary design wo	ork to adapt 320	00 Single Barrel	5-1-77		. <i>:</i> .
Trap Adjustable Sighti	ing Rib design.	The initial			•
design has been compl in the Model Shop.	eted. Parts al	e being made			
2. The first model will b A field test will also	e shot for point be conducted to	détermine			*
the endurance and per	formance of th	e Sighting	4.		
System.					
3. Design work will cont	inue to improv	the appear-			
ance and any weaknes	ses that may a	ppear during			
					· · · · · · · · · · · · · · · · · · ·
d) Super Trap Chokes					
			completed	D. E. Bullis	A.V.A.
The new long "Super" Choke Model 870 SBT prototype be	has been attac	hed to two		D. E. Blins	AA
1. Pattern and Point-of-	mpact		5-1-77	D.R.Lewis	
e) <u>Investigating Adjustable Sto</u>	ck Drop		5-3-77	D. R. Bullis	<b></b>
A method of adjusting stock	drop by movin	g the bearing			
plate back and forth is being tests should be completed b	r investigated.	Preliminary			
testo bilotti a					nata. Seria (Salaha)
	12				
		•	•		•
	erakan men				
					(±),
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		5 4			• 4
			200		

				Completion Date	Responsibility	Priorit
MODE	L 870 TRAP GUN PROGR	RAM - Cont'd.	• •	•		
		111				
1. <u>Sur</u>	er Trap Gun Design - C	Cont'd.				
Ŋ	High Stock		•	4-15-77	D.R. Lewis	A
• "	<u> </u>					
	A High Stock has been o					***
	Sighting System. A pri for the Stock Blank. The					•
	Stock will be done by L		and unitamized of the			
<i>:</i> ,				40.00		
g)	Fire Control		de la companya de la	6-1-77	D.R.Lewis	A
	Investigating the possil	bility of making	a two-snot Fire			
·	Control	(g. 1805)				
-		A			## 20 July 25 1	
. • '					Art of the second	
22 A	UTOLOADER.				4	
I. E	stablish firing loads.			5-30-77	E. J. Young	, A
2 F	stablish bolt mass, spri	ne loads, and be	it velocities	5-30-77	R.J. Young	A
						``` <b>-</b> :
	Thu Re-	ALC: C				20.00
. <del></del>	The second secon					
						· •
MOD	BL 700					100
Q					F.E. Martin	F.
omitti ,	Rem. Magnum				P. B. Matun	. 33. · ·
T	his caliber is presently	in the midst of	production run.			- 1
· A	Stock breakage problem	n has been noted	and cause			
đ	etermined. A solution f	or this breakage	has been offered			73 k
	nd is being evaluated. I		e live round			
e	jection has been reached	1.		<i>:</i>		
					•	
•						
	• •	·	•			
		- 0		•	•	

	Completion	·	
	Date	Responsibility	Priori
MODEL 700 - Cont'd.			
	6 is an	9. 9. 9. 36	
Fire Control	6-15-77	F.E. Martin	A
A program has been started to revise and redesign the Model		:	•
700 Fire Control. We want to provide the shooter with a means of unloading the rifle while on "Safe". It is still undecided	3		•
whether to have a three position Safety or to have a two position	1		
with a separate Bolt Lock. The design is planned to parallel	- ,		
the present Fire Control cost and quality.			
Trigger Guard - BDL	5-15-77	F.E. Martin	A
		•	
An interference between the Trigger Guard and Magazine			
Follower exists. It has been determined that it is caused by the Trigger Guard. It is planned to redimension the		•	
drawing to eliminate this. The yendor has also been		•	
requested to quote on an alteration to provide clearance for	• .	•	
the Magazine Follower.			
Magazine Components	8-1-77	F.E. Martin	
Wile Service Company		. , 2,	
An extensive evaluation of all components in the M/700			. •
feeding system is being undertaken to ease assembly	1		
problems and reduce the number of gallery rejects due to feeding. A screw length change has been transmitted.			
recting. A series length change has been transmitted.		•	
A new magazine box is being worked on for the 7mm Rem.			
Magnum ADL and is ready for test.			
Work on the Follower to reduce the weight and cost and			
to improve appearance has been done. Several models of			,
a new Model 700 Magazine Follower have been made and	•		
are ready for testing. Also, Powder Metal has been asked		•	
to supply us with samples of powder aluminum for evalu-			
ation. It is hoped that we can press this new Follower and chrome plate it.			
and chrome plate ic.			-
		•	
	.*.		
" <b>-</b>	-		

			Completion Date	Responsibility	Priorit
MODEL 700 - Cont'd.				Υ	
2.11				F. R. Martin	С
Scope Base Problem		, ·		1, 1, 2, 14,22	•
Several instances of cus	ntomers having diffic	culty mounting	٠.		
both Redfield and Leupo have been reported. In	ld one-piece hases	on Model 700s			
its cause and to notify t	he vendor of this pro	oblem area.			,
115 00000	•	٠.			
••	٠,			D.E.Bullis	A
Scope Mounts			*	D.E.Billis	Α.
New mounts have been	iesigned to mount a	hunting scope			
directly to the receiver	instead of to bases.	•	•		
			Completed	•	
<ul><li>a) Model for viewing</li><li>b) Test for endurance</li></ul>	and nos		5-15-77		
c) Approval of Market			6-30-77	T	
	*				
				•	
				•	,
MODEL 600					
					• .
1. Fire Control				F.E. Martin	F
Dandwitten complete	for this model are e	wnected in			**
iune 1977. Testing	will be done immed	lately and			
acceptance noted.	ار معنی افغان از استان		and the second s		
					; · ·
					•
MODEL 788					
					-
1. Firing Pin Heads				E.J. Young D. E. Bullis	F
This was a Devidens	ed Metal part which	hao haon radacion	ed	D. E. SHIRS	
as a Formed Bar St		rwa neem terrestRin			
4 vamos bes 01		•			
. •	· · · · · · · · · · · · · · · · · · ·				

Manual Firearms Design Group Work Schedule April 22, 1977 Completion Responsibility Priority Date MODEL 700 Contid. D. E. Bullis M/700 Stock Investigate Cheekpiece placement. 5-31-77 Assist Plant in altering fixture. Model 700 Classic D. E. Bullis 4-30-77 Make new Stock drawing;. Completed - Being Altered 4-30-77 New Parts List. Completed Make Stock with small brown Recoil Pad. Model 700 "C" Grade completed D. E. Bullis New Parts List. Complete needed drawings Transmit.

	Completion	نمان م	
	Date	Responsibility	Priori
ODEL 788 - Cont'd.			
ODEL 766 Cont. C.		;·	
Model 788 & 580 Series Safettes			
a) 580 & 788 Current Safety	•	E.J. Young	, <b>A</b>
	€.	•	
The 580 Safety Lever is being redesigned to eliminate high safety "on" force.			
1. Model Shop - Production Quantity	4-15-77	٠.	
2. Production Test	5-16-77 5-16-77	<u>.</u> .	
3. Transmit Drawings	5-16-77		
	•	• •	
MODEL 580 SERIES		:	
. Step Sear		• • • •	•
	2 20 37	n P Pullin	· A
a) Awaiting test results for drawing transmittal.	4-30-77	D. B. Bullis	
	.• .		
2. Bolt Body Lock Up Clearance		E.J. Young	В
a) The Bolt of the 580 Series may operate more smoothly	:.		
if the clearance between the Bolt Body (at the Locking			
Lugs) and the Receiver is increased.			·· .
Control of the contro		A STATE OF THE STA	
3. 20-Round Metal Magazine		E.J. Young	С
To Roth Mean Magazine	•		•
		A ALCOHOLOGICA	172
4. Cocking Piece		E.J. Young	F
4. Cocking Piece		E.J. Young	F
		E.J. Young	F
4. Cocking Piece  a) This was a powdered metal part which has been		E.J. Young	F
4. Cocking Piece  a) This was a powdered metal part which has been		E. J. Young	F
4. Cocking Piece  a) This was a powdered metal part which has been		E.J. Young	F
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4. Cocking Piece  a) This was a powdered metal part which has been		E.J. Young	F
4. Cocking Piece  a) This was a powdered metal part which has been		E.J. Young	F
4. Cocking Piece  a) This was a powdered metal part which has been		E.J. Young	F

				Completion Date	Responsibility	Prior
MODEL	580 SEREES	- Cont'd.				:
5. 580 S	eries Safety		•	5-15-77	E.J. Young	A
See N	1/788 Safety - Pa	ige 7	• •			
300 11						
я 580 С	ost Savings	•				•
••				6-1-77	D.E.Bullis	AA
	vestigate possib O Series Stocks.	ility of machine sa	anding	•	∩. ជ. απε	AA
			•.			
	the state of		·• •			
MODEL 5	40X - 541S	* •		•.	•	
MODEL						
1. Modi	fy 540XR Receiv	er for Anschutz S	ights		E. J. Young	С
s) ī	nvesticate dovet	ailing a 540XR Re	ceiver for			
	Inschutz Sights.	•				
	,			•		
2. 540X	-541S Safety	The same of		5-15-77	E. J. Young	A
. ;	See M/788 Salet	y - Page 7				
	4094	Z CRNORD BIR			; ; ; .	
WODEL	, 4UX - 4UX	CENTERFIR			-	
1. 40X	Bedding				D.E.Bullis	В
	nvestigate new n sing a Heat-Pres	nethod of bedding	receiver to stock		:	
131	11119 to 11400 1-01					
•						
2. Feed	ling problem in	this model has bee	en reported and	•	F.E. Martin	С
2. Feed	ling problem in be investigated	this model has been as time permits.	en reported and		F.E.Martin	С

## Manual Firearms Design Group Work Schedule

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	•			Completion Date	Responsibility	Priorit
10D	EL XP-100	•	:		Ÿ	
s	afety Lever		•		F.E.Martin	F
		orked up and is to be te				
		eceived from I.E. and	are to			
	be reviewed by Resear	cn.		•		
			,			
	•				• .	
			•			
OD	BL 3200					
i. <u>1</u>	ore-end Breakage					
	) Investigate location of	hreaks one and nrobable	CBIIGAG		P. Nasypany	В
•	1) Internation for	procuped and brosens			11 Hanlbial	-
1	) Devise new method to	assemble Fore-end from	to.			
	Fore-end Plate.				<b>፣</b>	
		The second second	•			
)						
•	Toot Improvements		ي .	*.		
,, ,	Cost Improvements	- Table Sales Sale				
	) Delete Cam Plates			6-1-77	D.R. Lewis	Α
		All Control of the Co				-
		merless ejection system		The second	• '	
		it frame surfaces instea				
•		jectors. Redesign of ej			•	
٠.	system to eliminate	A parts. Models ready	7 IOT test.			
				.:	· ·	• •
1	b) Cast Bottom Tang Unit		25		D.R. Lewis	F
					4	<del>-</del> 5.
		naisting of bottom tang,				• • •
		ck, to be investment Ca			•	
	=	e is redesigned to elim	inate bottom		2.	
	tang tongue cut. M	locels are in test.	• - •			
				• •	,	
				•	•	
		• • • • • • • • • • • • • • • • • • •	•	: .		
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		THE BEAR OF A	•	• •	•	
		The state of the s				
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		•		•		Completion Date	Responsibility	Prior
ODE	L 3200 -	Cont'd.		•			Ÿ	
Cos	t Improven	ents - Con	t'd.					
c)	Main Ham	mer Plunger	Rod				D. E. Bullis	F
	Variou attemp	s redesigns t to increase	of this part a endurance li	re being to	ried in an .			
						•		
. Re	coil Pad				· .		D.E.Bullis	F
a)	between t	he foam inse	re is no diffe erts and no in	sert or sta	undard			
•	pads now	in use. Plan	ns are to go v er & Plastics	with new de	esign	·• ·•	•	
					· .			
. Sto	ock Breakag	e Eliminatio	n É		·		P. Nasypany	À
<b>a</b> )			grip and tan	1 -		5-1-77	· ···	
•	N	larketing app	roval receiv	ed.				•
			timate receiv re-estimate		negative			
	3. aD	rawing chan	ge transmitte	ed 3-1-77.	PE&C			
	b	as not imple	mented chang	çe as yet.				
			1.1.1 A. v., A. v., 					:
· ·		. :	<b>3.</b> • *			. :		
*			<u>.</u>		• .			
)								
)			7. 5. 4.					

Manual	Fire	ırms De	esign	Group
w	ork	Sched	ule	

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				Completion Date	Responsibility	Priori
IBW CA	ARTRIDGE DEVELOPMENT					· •
22	4 and 6mm Bench Rest			•	E. J. Young J.A. Stekl	
<b>a</b> )	Register both cartridges - Min. Chamber with SAAMI			6-1-77	J. 22. Store	<b>A</b>
b)	Release cartridge-chambe manufacturers and selecte	d custom gunsmiths	er s			F
	after review - possibly ope	en neck diameter!				•
c)	Contact model shop in regi	ard to mechanizing		10-1-77		
	case forming process.					· · · · · ·
d)	Order straight-line sizing	die reamers for bo	oth			В
•	cartridges.					
	$A^{\mu}$					
)						
22RIM	FIRE ACCURACY PROGRAM					
	FIRE ACCURACY PROGRAM			5-30-77	E. J. Young	A
		Riffe	læder.	5-30-77	E. J. Young	A
1. <u>B</u> s	To tie in with both 22 Acc	Rifle uracy and new Auto	læder.	5-30-77		A
1. <u>Es</u>	To tie in with both 22 Accestablish Accuracy Base Point	Rifle uracy and new Auto	læder.	5-30-77	E.J. Young	A
1. <u>B</u> s	To the in with both 22 Accestablish Accuracy Base Point  Ammunition: Remington  Rifle: Remington	Rifle uracy and new Auto ve Eley 540XR	læder.	5-30-77		A
1. Es 2. Es	To the in with both 22 Accestablish Accuracy Base Point Ammunition: Remington	Rifle uracy and new Auto ve Eley 540XR 40XR	loader.	5-30-77		A
1. Es 2. Es a)	To the in with both 22 Accestablish Accuracy Base Point  Ammunition: Remington  Rifle: Remington  Remington	Rifle uracy and new Auto ve Eley 540XR 40XR	losder.	5-30-77		A
1. Es 2. Es a)	To the in with both 22 Accestablish Accuracy Base Foint  Ammunition: Remington  Rifle: Remington  Remington  Anschutz	rifle uracy and new Auto ve Eley 540XR 40XR		5-30-77	E.J. Young	A B
1. Es 2. Es a)	To tie in with both 22 Accestablish Accuracy Base Point Ammunition: Remington Rifle: Remington Remington Anschutz  OXR Tuning  Explore possibility of tun	rifle uracy and new Auto ve Eley 540XR 40XR		5-30-77	E.J. Young	A B

			Completion Date	Responsibility	Priorit
SPI	CIA	L PROJECTS	•		
1.	Met	allic Silhouette Program		F.E.Martin	В
	a)	Lightweight Firing Pins			•
		M/700 - Models have been made and more testing is to be done.			•
		M/40XB - Some work on these have been done but a final design has to be made and parts obtained from the Model Shop. Testing regarding endurance must also be done.  (Note: Parts are assembled and in Test Lab.			
		No results from Test Lab.)			• •
	b)	Silhouettes			•
2	. <u>R</u>	for shipping to selected individuals.  ecoil Force Gage  A new simple recoil force gage is being designed. This		E.J. Young	
- '	•	A new simple recoil force gage is bring agge can be easily adjusted to accommodate different weight recoil pads and still negate inertia effects.			
	-				
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			Completion	•	
			Date	Responsibility	Priorit
TRAP PRO	GRAM		•		
TRAFIRE				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	c Trans				_
1. Automat	C 11aps				•
AN 410	)-S Trap_				
410	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				٠.
1.	Testing		• .	•	
				·	_
	a) Check on modified sprags. Need to s	et up a		K.C.Rowlands	С
	new test trap for cycling.	· ·	• •	•	
		•	•	•	
		ne Club		E.D.Rankins	С
	b) Rewire (4) traps at Ilion Fish and Gar to new layout. Having some problem	s which			-
	need more checking out.	- WILLES		· · · · · · · · · · · · · · · · · · ·	
•	meet more checking var.	* * * * * * * * * * * * * * * * * * * *	•	•	
•	c) Investigate new release cord with red	luced		E.D.Rankins	C
_	voltage.				•
j					
2.	Manuals	•			
		for		E.D.Rankins	· A
	a) Check for errors and have flyer mad necessary corrections. Working on	e ap tor		K.C.Rowlands	
	hecessary corrections. working the	octures or			
	illustrations may be necessary.				-
	4100-S Supplement - Update		5-15-77		<u>.</u>
					2
	The state of the s				
3.	Drawings	* * * * * * * * * * * * * * * * * * *			
				7 7 7 Parlena	
	a) Draw 4100-S Assembly print B size	•		E.D. Rankins	_
				E.D. Rankins	F
4.	Cost Reduction	•		K.C. Rowlands	
	a) Possibly eliminate base casting.			300 000 000 000	
	g) Possibly eliminate base casting.				
			• • • • • • • • • • • • • • • • • • • •		
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		•				Completion Date	Responsibility	Prior
TRAP	PRO	GRA	M - Cont'd.	٠		• •		
			61	•				
1. Aut	omat	ic II	aps - Cont'd.	•				
B)	Mod	lel 41	00-T	• •	•			
						R D Renkin	s B.D. Rankins	F
	1.	Cost	Reduction		·	D, D, 13(	K.C.Rowlands	
		<b>a</b> )	Possibly eliminate	some castings	•			
• •						•		
		p)	Test to eliminate #2 trap at Ilion Fi	sprag crucci ire	inp siready	•		. :
٠.	•		being tested. Loc	oks good so far.		•		•
				No. of the second	***	•	ė	c
		c)	Set up new 500,00	O cycle test to	evaluate the		•	·
			following redesign Actuating Lever I	ink Mainsoris	mapring, o Swivel Washer.			
		• ,	Slide Block Asser	ably, Drop Pad	Cushion, Throw-	11.11	•.	•
			ing Arm Wiper an	d various short	ened bearings as	· .		•
	∵.		well as a substitu	te dampér. Tr	ap performance	•		
•		•	will also be evalueliminated: Ang	isted with the 10 ding Sprag Clut	ch and Clutch	·		
			Housing, Lower	Pivot Shaft Bear	ing, Elevation		ritus e de en	•
•			Adjusting Knob S	pring and Mount	ing Pins.	films with a		•
								. •
	2.	Ma	nuals					•
		1410	The state of the s					
•		a)	Check for errors	and have flyer	made up for			1
	٠.	* * *	necessary corrections may be	ctions. Some p	conten of imas			
	•	• .•	trations may be	decessory.				
	•	,	4100-T Suppleme	ent - New		6-15-77		• • •
								-
	2	<b>D</b> -	awings				• •	
	3.	בוע	ewinka		en de la companya de La companya de la co			
		a)	Finalize prints -					
			including assemi	bly drawings wi	th bearing			
			sizes for produc	tion.			. • • • • • • • • • • • • • • • • • • •	
_			•		• •			
				•	•	•	·	
			•	•				
				•				
					•	and the		

TRAP	PRO	OGRAM - Cont'd.	Completion Date	Responsibility	Priori
		cal Traps (2 Types)  chanical Trap - Hand Cocked - Manual Release		E.D.Rankins K.C.Rowlands	•
	<b>a</b> )	Initial prototype design completed. Followup design being worked on for different styles and mechanism, and cost reduction.	6-1-77		
				•	
	<b>b</b> )	Build 7 prototypes for field testing and evaluation, including operation & repair sheets.	Completed		
	c)	Part prints are out for quotes.	Completed		
	c d)	Manual of Operation and Repair	9-1-77		C
	e)	Build 2 more Prototypes for Marketing evaluation.	7-1-77		В
	• .				
В.	Ме	chanical Trap - Lever Cocked - Electric Release	· · .		
	<b>a</b> )	Dry Cycle Test 1 Unit	5-18-77		A
	b)	Make 8 units for field test and Marketing evaluation.	7-29-77	· 	B
C.	Me	chanical Trap Equipment		•	
	<b>a</b> )	Perimeter Ring - initial prototype design completed Redesign required for cost reduction.	. 7-1-77		. В
	<b>b)</b>	Portable Base - one prototype designed and built. Redesign required to enable base to be supplied in hit form for ease of packaging.			
	· c)	Assembly instructions for Perimeter Ring and Portable base.			

		*		Completion Date	Responsibility	Priori
TRAP PR	OGRAM_cont	<b></b>			<del>.</del> <del>19</del>	
3. Plastic	Hand Traps					
A. Fi	eld Test for Thr	owing Targets		5-1-77		<b>.</b>
B. La	b Test for Reac	tion to Temperatu	re Changes.			
	:				•	
					•	
					. :	
					:	
		_	• •	·.	•	