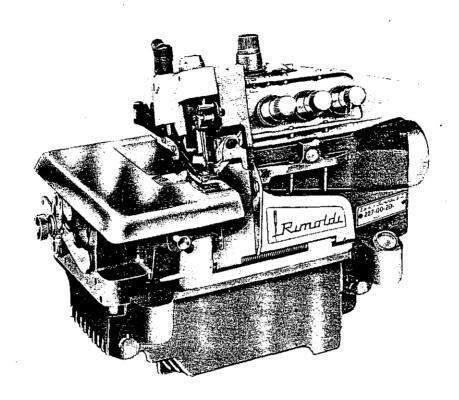
# Rimoldi®

SPARE PARTS CATALOGUE
CATALOGO PEZZI DI RICAMBIO
CATALOGUE RECHANGES
ERSATZTEILELISTE

class 227-00-20 and subclasses 227-00-32



SPARE PARTS CATALOGUE
class 227-00-20
and subclasses
227-00-32

## INTRODUCTION

#### CONTENS

INTRODUCTION

- MACHINE HEAD IDENTIFICATION II - TECHNICAL DATA BY MACHINE HEAD CLASS III - TECHNICAL DATA BY SUB-CLASS INTRODUCTIONS - INSTALLATION AND TIMING Page 9 a - Positioning of head 9 b - Assembly of trasmission 9 c - Filling lube oil sump d - Assembly and adjustment of sewing parts 14 14 e - Positioning and adjustment of presserfoot arm f - Adjustment of front cover plate 14 g - Adjustment of needle thread take-up 14 h - Electric lubrication control device 15 16 Timing table II - USE Page 17 17 a - Threading b - Needle change 19 c - Positioning and adjustment of presserfoot 19 d - Tensioning discs adjustment 19 e · Stitch length adjustment 19 19 f - Seam width adjustment 20 q - Trouble due to incorrect handling of machine III - MAINTENANCE Page 21 a - Daily 21 21 b - Weekly 21 c - Quarterly d - Sharpening knives 21 e - Instructions for changing Cam Shaft (if required) 21 **SPARE PARTS CATALOGUE** I INSTRUCTIONS FOR USE Page 25 25

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a - Introduction

a - All spare parts

III - ILLUSTRATIONS

b - Needles

#### INSTRUCTIONS FOR USE

#### a) Introduction

- The Spare Parts Catalogue consists of a set of illustrations of the different mechanisms or assemblies making up the basic machine head and its subclasses.
- 2. For easy look-up, the illustration index shows the position of each assembly on the machine.
- 3. The conversion groups of the basic head and its subclasses are illustrated in individual drawings.
- 4. The illustrations show the number identifying subclasses printed in bold type at top right.
- 5. On each illustration the single parts of the assembly shown are identified by a number. Assemblies of which parts cannot be supplied separately, are identified by capital letters. Parts and devices which are not standard equipment with the machine but which can be supplied on request are listed at the bottom of each illustration page and illustrated complete with all components at the end of the catalogue.
- 6. The catalogue carries a general list of parts in numerical order by drawing number, covering all the parts in our machines, with the number of the illustration where the part can be found.

#### II. ORDER PLACING PROCEDURE

#### a) All spare parts

The following instructions should be carefully followed to make sure that required spare parts are shipped thout delay:

- 1. State machine head serial number ...
- State drawing number of spare parts ordered.
- 3. Write name of spare part required in full.
- 4. State quantity required.

#### IMPORTANT

RIMOLDI are desirous of throughly studying all cases of breakage, wear or unsatisfactory performance encountered with parts they have manufactured. For this reason, such parts should be dispatched together with the spare part order.

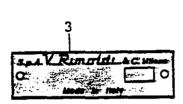
#### b) Needles

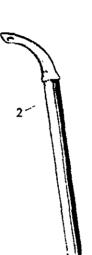
- 1. Only straight RIM 27 needles should be used on the machine heads illustrated in this catalogue.
- 2. The needle system and size are marked on the needle shank.
- 3. The gauge indicates the average diameter in hundredths of a millimetre taken on the blade of the needle.
- 4. The system and size are also stamped on the RIMOLDI needle envelope.
- When ordering, always state clearly the required needle system and size. (Example: 100 needles, size 90, system RIM 27).
- 6. In case of doubt, attach a sample needle or an'empty envelope of the needle required.
- 7. For sewing elastic or elasticised materials special ball-point needles classed as SKU are available.

From the library of: Superior Sewing Machine & Supply LLC

# SPARE PARTS CATALOGUE



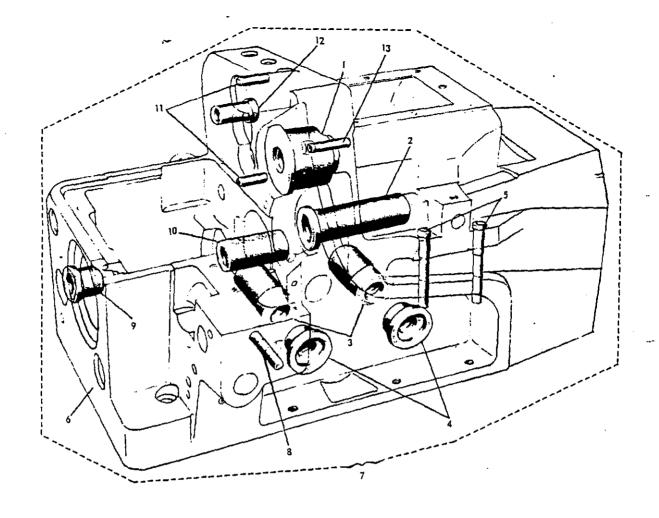




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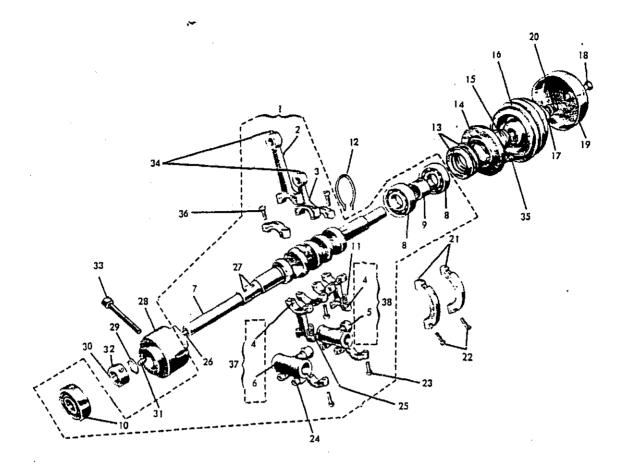
₹£}. #*	PART.	DESCRIPTION	OUANI.	REF H	PART.	DESCRIPTION	OUANI
- [	57 <b>0-275</b> 20077-14 2802, 1 (50)	thread, guide secondary loope secon lary loope- machine type, dame plate	1				
		From the library					

From the library of: Superior Sewing Machine & Supply LLC

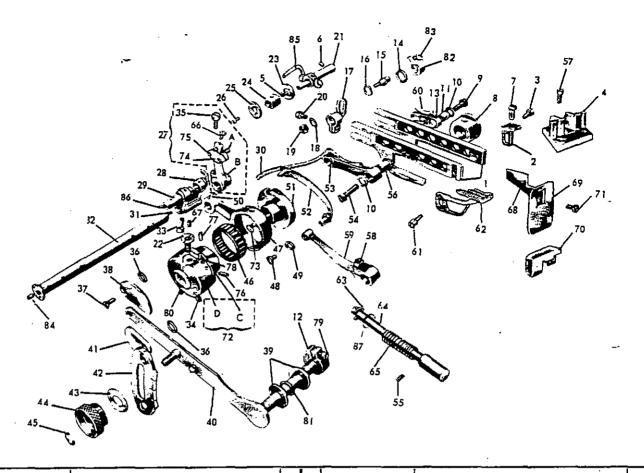


REF.	PART.	DESCRIPTION	QUANT.	REF. Nº	PART, N"	DESCRIPTION	OUANT.
2 3 4 5 6	270-016 270-097/1 270-058/2 270-057/1 270-268 202 004-0-11 202 005-3-11	bushing, needle bar shaft bushing, upper knife holder rear bushing,looper shaft front bushing, looper shaft guide tube. looper thread base, machine base with bushings and thread guides	1 1 2 2 2 1 1	9 10 11 12	270-912 202045-0-1 † 270-042/3 270-642 270-082/1 270-264	latch pin, workplate bushing, differential shaft bushing (left), differential shaft pin, coverplate centering bushing, presserfoot lifter lever thread guide, needle	1 1 2 1 1
					-		
	From	the library of: Superior Se	w	nc	Machine 8	Supply LLC	

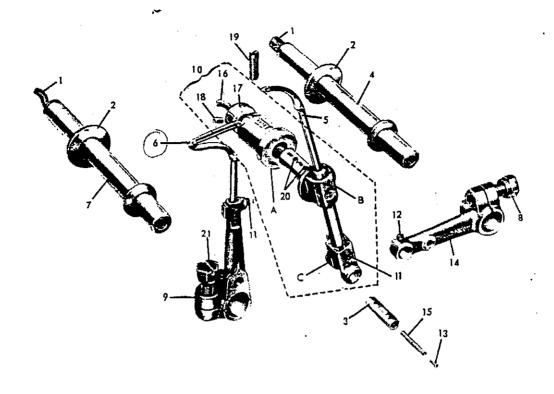
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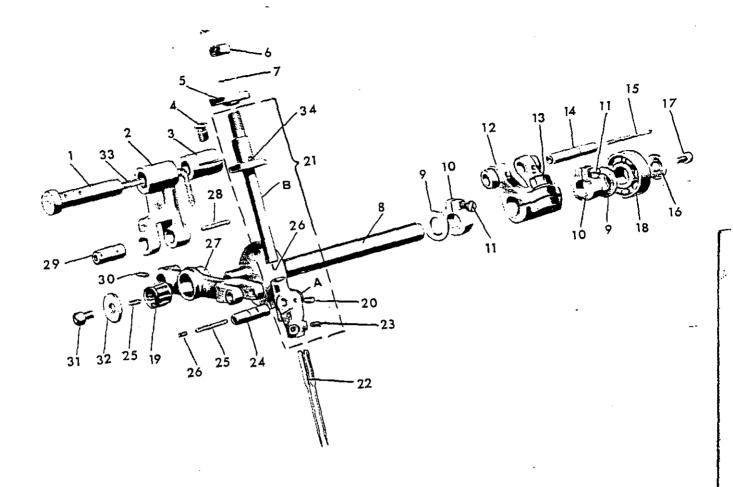
REF. Nº	PART.	DESCRIPTION	OUANT.	REF. H*	PART.	DESCRIPTION	QUANT.
23 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18		main shaft, with connecting rods control rod, needle bar control rod, knife control rod, secondary looper sleeve, secondary looper control rod sleeve, primary looper control rod main shaft ball bearing, right spacer, bearing ball bearing, left guide, connecting rod snap-ring, right ball bearing scring, cup flange, right spacer, main shaft right handwheel washer with guide set-screw, hanwheel cover with handwheel	111211121121111111	21 22 23 24 25 26 27 28 29 30 31 33 34 35 36 37	270-510 270-617/2 270-999 010-H-13,7 270-975 290-944 092-D-14 092-D-14 092-C-2 270-010/2 074-A-12 270-722 270-750 016-D-5 270-938 023-N-5,5 001-E-10 010-D-11,5 PM.270-059/1 PM.270-060/i	pivot, handwheel rockers screws, rocker screw for control rods 280-012/3 and 270-116/2 screw, sleeve lock-screw, connecting rod guide oil wick, main shaft wick bush, intermediate washer, differential ring, adjustment cap, main shaft screw, adjustment ring lock-screw, intermediate bush grub-screw, pin screw, right flange screw, looper control rod sleeve assembly  N. B. Bewings reference number 8 can be supplied as separate spares, however it is indispensable to specify on the order sheet the Roman numeral ap- pearing on the outer race of the re-	124 4421211112123811
6 7	PM 276 B-009/6 270-060/1 270-009/3 PM 270-060/1	for 227-00-32 main shaft, with connecting, rods sleeve, primary looper control rod main shaft sleeve assembly From the library of: Supel	1 1 1 1	. 5	Sewing Mad	moved bearing. hine & Supply LLC	



REF. H"	PART, N°	DESCRIPTION	QUANT.	REF.	PART. №	DESCRIPTION	OUANT.	
		assembly, differential slide feed dog, rear screw, attach rear feed dog	1	48	270-037/3 270-984 070-8-3	rod, differential control screw, feed lever washer, feed lever	1 1 1	
1 4	270-977	quide block, right differential	li.		023-N-5.5	securing screw, pin	;	}
5		ail wick	4		270-735	eccentric regulation	1	l
6	270-937/1	securing screw, differential eccentric shaft	1	52	PM.270-045/2	attachment, differential segment	1	ı
7	27-27-052	feed dog, chaining	1.		270-033/1	link, differential slide	1	l
	270-611/1	eccentric, feed dog lifter	1		270-980	securing screw, differential link	1	ı
	270-979	securing screw, link	[ ]		270-943	grub-screw, securing pushbutton	11	Ì
	070-M-4,5	washer, differential links	2		270-034	bush for differential slide	1	ļ
	270-035	bush, differential feed slide	]		005-L-11	securing screw for guide	2 2	ļ
	4030-06	collar	;		270-997 270-566/1	screw, differential control lever control lever, differential segment	1	1
	270-048	link, differential feed slide	1 .		092-D-4	oil wick, differential link	1:	!
	073-C-8 270-054	washer, pin pin, differential segment	;		270-978	securing screw, front feed dog	1 4	į
	071-M-5,5	washer, diff. ratio increase segment			27·27-050	front feed dog	l i	1
	279-047/2	guide segment, diff. ratio increase	1 1		290-700	snap-ring for pushbutton	Ιí	i
	070-F-4	washer, diff. ratio pin	l i		270-736/3	shank, pushbutton	1	i
	057-F-4	nut for pin 270-054	l i		270-738	spring, pushbutton	1	
	270-975	screw, segment	li		001A-2,5	screw	1	
	270-039	shaft, differential eccentric	1	67	270-729	set-screw	1	
22	270-7391	securing pin	1		279-249/1	shield	1	
23	071-H-5	washer, differential eccentric shaft	[ 1 ]		270-250/2	rubber guard for feed dogs	1	
	270-036/1	sliding block, for differential	1		270-253	gasket, slide guide	1	
	270-935	counter-washer	1.1		004-L-7	securing screw, guard	2	
	026-C-7	screw, counter-washer	1 1		PM.270-732/3	housing and cam stitch length eccentric	1	
	PM.270-038/3	complete adjustable differential assembly	1		270-734	flat spring	1 1	
	270-040	yoke, connecting rod	]		270-032/3	plate, differential mechanism cursor	1	
	270-031/1	pin, fork yoke	]		004-P-6	securing screw, cursor plate	2 2 2	
	092-D-6	ail wick, dowel	1		270-928 270-929	grub-screw, for eccentric slide lock-screw, for grub-screw	15	
	092-D-12 270-041/1	oil wick, rear pivot rear pivot, differential	1 :		270-929	gib, eccentric slide	1	
	250-471	screw, yoke			007-C-11	screw, collar	ĺż	
	017-E-11.5	securing screw, adjustable eccentric			023-E-12	Set-screw, eccentric	1	
	039-H-9	screw, differential segment	1 1		270-595	gasket, differential control lever	ĺί	
	064-F-5	washer, segment	Ιż		270-717	collar, differential collar	1 1	
	270-992	screw, differential segment	ΙŽ		270-927	screw, collar	li	
	270-287/1	upper sector	Ī		270-915	plug, differential pinion bore	1 1	
	073-A-8	washer, differential drive shaft	l ż		092-D-11	oil wick	1	
	PM.270-562/2	lever, complete differential control	ĺî		092-D-23	oil wick	11	
	270-288/1	stop	Ιi	87		gasket	11	
	270-567	sector with setting marks	1	A	270-046/3	slide for differential adjustment	1	
	065-D-6	washer, knurled knob	1	В	270-038/3	segment for differential adjustment	1	
44	270-568	estiphingly of Superior Sew	1	I G	279-733/1 0 0	slide, stitch length eccentric cam	1	
45	270.7000 tn		μK	ĮďV		Uptch length escentric cam	1 1	
46	270-703	needle roller bearing cage	;			for 227-00-32	Π	

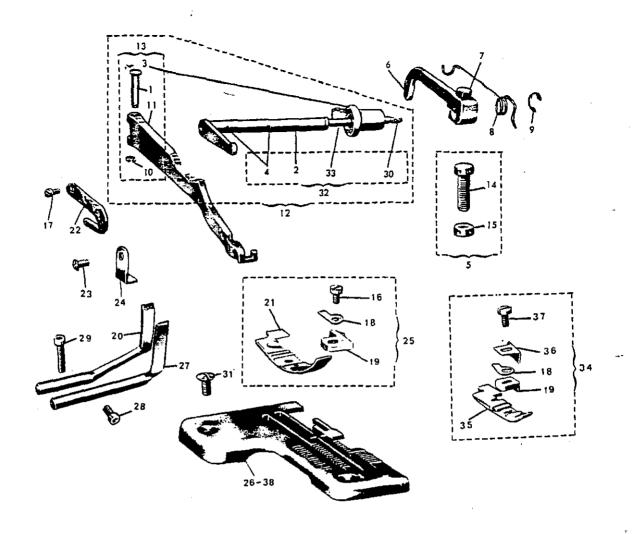


REF.	PART.	DESCRIPTION	OUANT.	REF.	PART.	DESCRIPTION	QUANT.
2 3 4 5 6 7 8 9 10 11	092-0-16 073-N-10 270-070 270-064 27.277-074/2 270-075/2 270-069 250-471 270-068/3 G.27-77-065/3 270-974/1 016-B-4	oil wick, for pinions washers, looper control lever pin, secondary looper control lever shaft, secondary looper control secondary looper with large eye primary looper with large eye shaft, primary looper control screw, looper lever looper-holder, primary oscillating guide, with screw-type bush set-screw, looper set-screw, primary looper travel	1 1	14 15 16 17 18 19 20 A B C	016-8-2,5 27-77-067 092-8-1 092-D-7 270-053 015-8-3 017-F-11 092-C-2 27-77-056/1 27-77-055/3 270-063/2 002 F-14	grub-screw, for pin control lever, secondary looper oil-wick, for pin oil-wick, for pin oil-wick, shim, adjustment set-screw set-screw felt tube adjustable bush oscillating guide looper-holder, secondary screw looper lever On request: 27-277-0745/2 270-075	1 1 2 1 1 2 1 4 1 1 1 1 1
					27.277-0745 270-057	for 227-00-32 secondary looper primary looper	1 1
		From the library of: Super	ior	S	ewing Mac	hine & Supply I I C	

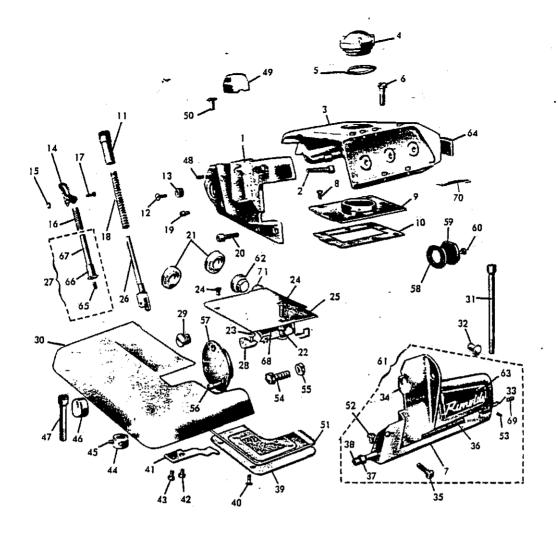


REF.	PART.	DESCRIPTION	OUANT.	REF.	PART. №	DESCRIPTION	OUANT.	
2 3 4 5 6 7 8 9 10 11 2 13 14 15 16 17	PM.270-138/1 PM.270-137/1 270-132/1 270-728/1 290-027/1 270-933 270-713 270-006/1 073-F-9 270-719 007-C-11 270-007/1 270-031/1 092-D-6 071-E-5 001-G-10 270-708	pin, needle lever rocker lever, fork bush, fork lever securing screw, bush washer, needle rocker pin lock-nut, guide pin flexible washer drive shaft, needle bar washer, upper shaft collar, upper shaft screw, for collar attachment, drive shaft pin, attachment drive shaft oil-wick, for pin washer, upper shaft screw, washer bearing, upper shaft	11111222111111	20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 A	250-708/1 016-B-2,5 G.27-27-025/4 RIM.27 290-944 270-130 092-B-1 016-A-2,5 270-135 092-D-5 270-133/1 023-N-5,5 001-E-7 270-131 092-D-11 092-A-10 27-27-020/3 290-025/1	needle bearing cage, needle control lever screw, pin securing needle bar assembly with clamp, complete needle screw, needle clamp pin, needle clamp pin, needle clamp pin grub-screw, needle bar clamp pin lever, needle holder slide control oil-wick for pin pin, fork lever set-screw, needle bar control lever screw, upper shaft shim, adjustment oil-wick, for pin oil-wick, for needle bar needle clamp needle bar	1 1 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	From t	he library of: Superior Sev	vir	g	Machine &	Supply LLC		

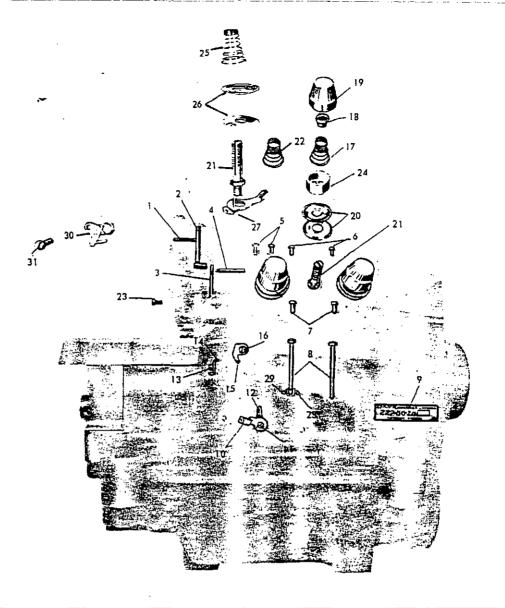
REF.	PART.	DESCRIPTION	CUANT.	REF.	PART, Nº	DESCRIPTION	OUANT.
45678910112131415	270-102 270-096/1 27-77-112 092-D-5 128-111 270-987 270-099 270-103 073-F-9 270-719 007-C-11 270-108/1 270-098 092-C-2 092-D-9 250-471	pin, upper knife holder upper knife holder upper knife, serrated oil-wick trimming guard, upper knife securing screw, upper knife block, upper knife holder lock-pawl, upper knife washer, upper knife holder collar, upper knife holder collar, upper knife holder screw, upper knife holder pin, yoke attachment yoke attachment oil-wick for yoke attachment pin oil-wick for knife holder screw, upper knife lever	111111111211	18 19 20 21 22 23 24 25 27 28 29 30 31 32	007-P-10 064 L-5 270-104 270-105 277-113 270-100 270-106 003-L-12 270-101 070-F-4 270-877 028-8-5 004-A-5 27.77-227 27.77-228 PM.270-104/1	set-screw, lower knife washer, for pin lower knife holder pin, lower knife holder lower knife spring, lower knife spring, lower knife securing screw, lower knife holder bushing, lower knife guide washer, for bushing screw, bushing screw, bushing screw, upper knife holder securing screw, angle stop brace-plate, rear needle guard angle stop, front needle guard knife holder. lower trimming guard upper knife	11111111111
					276 B-112	for 227-00-32 upper knife	1
1		From the library of: Superi	or	S	ewing Mach	ine & Supply LLC	



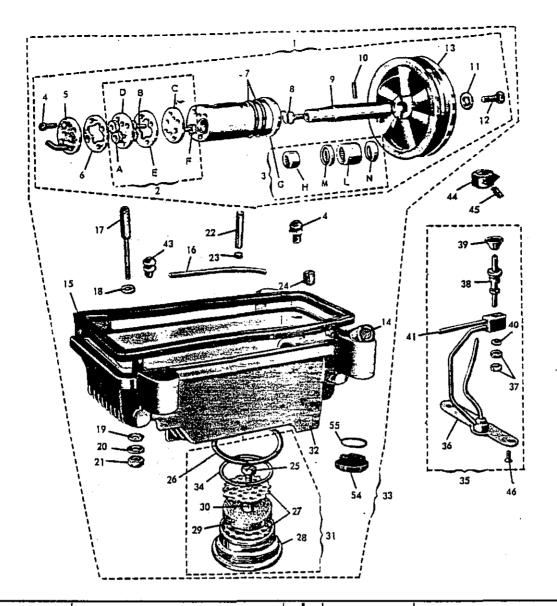
REF.	PART. N"	DESCRIPTION	QUANT.	REF.	PART.	DESCRIPTION	OUANT.
11 12 13 14 15	270-701 27-778-076/1 G 27-778-076/1 PM27.778-076/1 270-085/1 270-091 004-L-8	pin, presserfoot arm shaft, presserfoot lifter lever bushing, presserfoot lifter lever shaft oil-wick stop-pin, lever stroke adjustment lever, presserfoot lifter screw, presserfoot lifter lever spring, presserfoot lifter lever snap-ring, presserfoot lifter lever shaft snap-ring presserfoot arm presserfoot arm presserfoot arm assembly coupling, presserfoot lifter lever stop-pin, presserfoot lifter lever stop-pin, presserfoot lifter lever stop-pin, presserfoot lifter lever stop-pin, presserfoot lifter lever travel lock-ring, for item 14 screw, presserfoot chaining finger screw	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	19 20 21 22 23 24 25 26 27 28 29 30 31	27.77-196 272 6B-191 27-277-109/1 27.26-184 270.1 P-403/1 27.26-186 G 27.277-181 27.277-114 27.277-107/1 270-936/2 270-934/2 092-D-11 032-L-10,5 PM 270-081/1 270-073	bracket, presserfoot chaining finger, presserfoot needle guard, rear shoe, presserfoot chain cutter screw, angle mounting angle stop presserfoot presserfoot assembly needle plate for narrow bight needle guard, front screw, front needle guard screw, rear needle guard oil-wick screw, needle plate securing shaft, presserfoot arm, complete tube, protection	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
35 36 37	G27.26-181/1 27.26-184/1 27.77-183 004-L-9 27.26-114/1	for 227-00-32  presserfoot assembly shoe presserfoot chaining plate screw, presserfoot chaining finger needle plate	1 1 1 1				
	From	the library of: Superior Se	wi	ng	Machine &	Supply LLC	



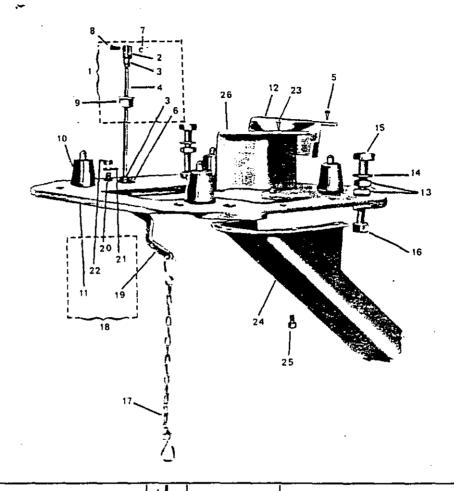
REF.	PART. N°	DESCRIPTION:	QUANT.	REF. N°	PART. N°	DESCRIPTION	QUANT.
	014 370 200/2			26	007-F-14		
'	PM.270-208/3 007-H-25	side cover, with bushing			270-221	screw, cover	
	PM.27-27-20 5/3	screw; top cover			054-D-4	spring, front cover	
اک		cover, with thread take-up bushing			270-226	nut, retaining	
4	270-241/2	oil-cap, with window	:		G.270-242/3	screw, front cover securing	1 !
5		packing ring, oil-cap	1 :			plate, complete with filters, tubes	
6		screw, cover securing	4		028-E-10	screw, bottom plate securing	4
I /	PM.270-218/2	hinge assembly with guide tubes			270-212	spring, workplate latch	!
l š	007-R-7,5	screw, securing oil-cap plate	١ :		001-D-6	screw, spring securing	!!
9		oil-cap plate	1		001-D-4,5	screw, spring securing	1 !
	270-246	oil-cap plate gasket	!		270-718	collar, workplate pin	1
	270-093/1	cap, spring adjustment	!		017-E-4,5	screw, collar	2
	032-F-9,5	set-screw, stop cam	!		270-030	plug, differential shaft seal	1
	605-412	stop cam	1		270-973	screw-bolt, machine assembly, short	1
	270-094	lever, presserfoot locking	1		270-715	set-screw for adjustment cap 270-093/1	1
	270-701	snap-ring	!!		270-129/1	cap, guide pin	1
	270-086	spring, presserfoot release rod	!		270-731/1	plug, attachment Wiseal	2
	270-078	pin, presserfoot release lever	!		270-231	gasket	1
	2701-P-092	spring, presserfoot pressure	1		01205/A	screw, front cover plate securing	3
	270-993	set-screw	1		270-913	pin, front cover plate	1
	270-995	screw, top cover securing	2		270-214	set-screw, side cover plate	1
	270-066/2	plug, looper bushing	2		057-E-4	nut, set-screw	1
	270-303	nipple, cover	1		005-M-10	screw, side flange, left	3
	026-E-10	screw, seal plug securing	1		270-619	flange, left side	1
	026-C-7	screw, splash guard securing	2		270-624	gasket, sealing disc	1
	270-247/1	splash quard	1		270-623/1	sealing disc	1
	PM.270-095/3	shaft, pressurefoot pressure	1	60	001-0-10	screw, sealing disc	2
27	G.270090/1	release rod, pressertoot	1		G.270-216/2	cover plate assembly, front	1
	270-248/1	plug, seal	1	52	270-030/2	screw, plug	1
29	270-940	plug, screw	1	63	270-175	nameplate, front cover plate	1
30	PM.270-210/3	work-plate assembly	1	64	270-174	nameplate, tensioning disc housing cover	1
31	270-972	screw-bolt, machine assembly	1 1	65	290-923	set-screw, tie-rod	1
1 32	270-730/2	screw, plug	1	66	270-090/1	block, tie-rad	1
	270-220/1	pin, front cover plate	1 1		270-110	tie-rod	1 1
	PM.270-217/2	cover, looper and take-up	1 1	68	PM.270-301	splashquard assembly	Ιi
1			L Í	69	016E 5.5		l i
1	•	From the library of: Super	ioi	18	lewing Mac	hine & Supply LLC	1 !



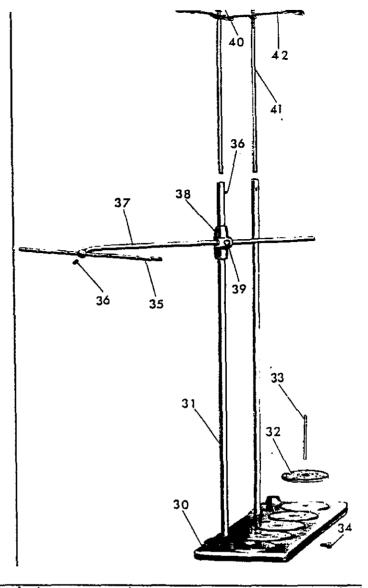
REF.	PART.	DESCRIPTION	OUANT.	REF.	PART.	DESCRIPTION	QUANT.	
2 3 4 5 6 7 8 9 10 11 12 13 14 15	270-941 PM270-263/1 270-274/3 270-264 270-265 270-266 270-268 780220-0-00 270-269/2 004 L-8 270-270/2 004 A-3.2 270-276/1 272-77-2751 032-A-6	screw, thread guide tube securing tube, needle thread guide take-up, needle thread needle thread guide bush, upper thread guide bush, lower thread guide bush, lower thread guide tube, lower thread guide tube, lower thread guide machine type nameplate take-up, primary looper screw, take-up securing take-up, secondary looper screw, bracket securing bracket, looper thread guide, secondary looper screw, thread guide securing	1 1 1 2 2 2 2 2 1 1 1 1 1 1 1 1 1 1	18 19 20 21 22 23 24 25 26 27 28 29 30	272-232.1 270-233 202558-2-00 603-031 270-230 270-232/2 004 N-5.5 202556-0-00 270-232:1 250-031 27 27-253 016 B-2.5 27 00-2714 3 27.27-262 2 004 P-4.5	spring, primary looper bushing, upper tension nut, tension adjusting disc, tension pin, tension screw spring, needle screw,needle take-up securing cup, tension disc spring needle disc tension thread guide screw thread guide needle thread take-up assembly screw	244641241211111	
	780232-0-00 270-271	for 227-00-32 machine type nameplate thread guide	1					
	From	the library of: Superior Se	w	ng	Machine 8	Supply LLC		



REF.	PART. N°	DESCRIPTION	QUANT.	REF. H <sup>o</sup>	PART. N°	DESCRIPTION	OUANT.
				Ī.,			
	G.270-816/1	oil pump assembly		34	270-966/1	gasket	]
	G.633-833/1	gear assembly	1:	35 36	G.270-646	oil distributor assembly	!
	PM.270-816/1	pump unit	4		PM.270-645/1	ail distributor	
	633-812	screw	4	37	057-A-3	nut	1 ?
	PM.633-817/1	cover	1 !	38	270-650	valve	]
	633-818/1	washer	۱ ¦	39	270-651	gasket	
	633-711/1	gasket	2	40	270-734/1	flexible washer	1!
	270-824/1	worm	<u> </u>	41	270-652	junction tube	1
	270-823/1	shaft		1	000 0004		
	633-708	flexible pin	l !	43	633-826/1	coupling tube, oil pump	1 2
	633-707	cup spring	1	44	270-645	pointer, oil distributor	[ ]
	039-G-10	screw, pulley securing	1 !	45	016-B-2,5	grub-screw, pointer	[ ]
	270-810/2	pulley, oil pump	1	46	028-E-10	SCLEM	2
	633-959/1	ail level window	1 1	1	i	•	1
	270-808/1	gasket	1	1.			1
	633-842	tube	1 1	1	i.		
		pin	2	1			
	270-946	gasket	2	1	1		
	270-947	gasket	2	1	ì		
	065-L-5	washer	2	l_			1
	059-G-6	nut	2	54	270-432/1	current plug	1
	270-831/1	tube	1	55	270-430	rubber gasket	1
	270-836	feit pad	1	Α	633-821/2	gear wheel	4
	017-H-12	grub-screw	1	8	633-822/2	gear wheel pin	1 1
	007-L-20	screw	1	С	633-819	gear plate, side	1
	633-966	gasket	1	D E F	633-833	gear plate, inner	1
	270-828/1	disc	1	Įξ	633-818/1	washer, inner	1
	270-996/2	plug	1	IF.	633-834/1	drive shaft	1
	270-827/1	felt disc	1	G	270-816/1	housing, pump	1
	633-925	spacer	1	Н	633-814	roller hausing	1
	G.270-996/2	plug, oil sump	1 1	L.	633-813	roller housing	1
	270-001/2	Oil sump	1	М	670-702	seal ring	2
33	205520-5-00	oil pump and sump assembly complete	1	1	1		1
		From the library of: Super	io	l S	ewing Mac	hine & Supply LLC	



REF.	PART. N"	DESCRIPTION	QUANT.	REF.	PART.	DESCRIPTION	OUANT.	
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	G.270-583 270-585 059-A-5 270-583 270-459 270-557 270-701 270-558 270-552 270-004 PM.270-005/3 270-588 058-M-10 067-H-10 270-971 051-L-10 PM.1159 G.270-005/3 270-586/1 270-586/1 270-584 065-L-6 059-H-6	tie-rod assembly, presserfoot lifter lever coupling, presserfoot lifter lever upper lock-nut, lifter lever tie-rod rod, presserfoot lifter lever lock-screw, flywheel guard coupling, presserfoot lifter lever snap-rings pin, for coupling bushing, upper plate tubber mounts, machine bearing plate, with pins guard, flywheel nut, machine bearing plate screw, machine bearing plate screw, machine bearing plate nut, machine plate mounting bolt chain with hook machine bearing plate lever, presserfoot lifter pivot, presserfoot lifter lever washer nut, presserfoot lifter lever pivot	112171321411184444111331	24 25 26	270-558 270-590/1 270-590/2 001-G-10 270-589/1	pin waste chute (long - right) waste chute (left) screw, waste chute securing waste chute -short	117	
Ш	Fron	the library of: Superior S	ev	vin	g Machine	& Supply LLC		ļ

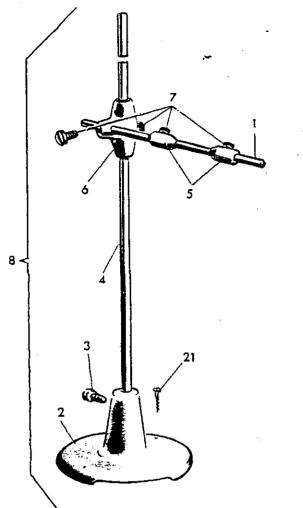


Nº REF.	DISEGNO	DENOMINAZIONE	QUANT.	H <sup>C</sup> RIF,	DISEGNO	DENOMINAZIONE	OUANI
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 24 25 26 27 28 27 28 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	605-937 605-980 32727-157 01141 001-G-12 001-G-10 260-142 1146 9260-137 250-130 250-130 250-130 250-140 PM 260-133/1 PM 260-133/1 PM 260-135/1 016-5-5 PM 250-148/1 270-158/1	SUPPLIED WITH HEAD ONLY thread stand assembly complete thread stand assembly bracket lock-screw. bar sustaining with thread guide rod base, thread stand screw, rod securing screw, plate securing plate, thread spool pin, thread spool pin, thread spool frame, thread guide assembly upright, main lower upright, main lower upright, main upper rod, thread guide connector-piece, rod rod, thread guide rod, thread guide rod, thread guide grub-screw sustaining rod, thread guide rod upper) bar, thread guide pad, thread spool screw, thread stand securing pedal mit, pedal screw, shurp base, pedal pedal assembly complete	1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	31 32 33 34 35 36 37 38 39 40 41 42	490/2 910-143 569 1146 001-3-10 270-157 016-F-5 270-158/1 605-937 605-980 1145 910-144 G 497	SUPPLIED WITH STAND  thread spool upright, main pad, thread spool cap-screw rod, thread guide grub-screw bar, thread guide rod sustaining bracket, thread guide rod sustaining bracket, thread guide sustaining lock-screw lock-nut, thread guide sustaining upright, top section thread guide assembly	1255511112421

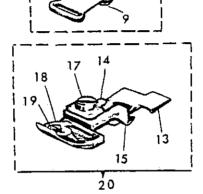
From the library of: Superior Sewing Machine & Supply LLC

REF.	PART. N°	DESCRIPTION	QUANT.	REF. H	PART. N'	DESCRIPTION	JAY III
3 4 5 6 7 8	VR.504 1175 280-155 RIM.27 1161/2 533-742 1158 641-LY-743 1156/1	oil, 1 quart can machine cover vee-belt needle, RIM.27 screwdriver hex. wrench, 1/8", for 270-715 pincers, threading hex. wrench 3/32" wrench, double-ended	1 1 1 5 1 1 1 1	11 12 13 14 15 16 17	270-741 539-M-745 277-113 277-112 01160/2 270-745 01161/2 270-743 270-431 290-746	pipe-wrench, 9/32" wrench for oil sump plug knife, lower knife, upper screwdriver hex. wrench, 9/32" screwdriver hex. wrench, 5/64" power cable and plug hex. wrench 1/16" for needles	
						On request: 270-675/1 Tab. 75	
	From	the library of: Superior S	ew	ing	Machine 8	Supply LLC	

1







REF.	řA I. Na	DESCRIPTION	OUAKI.	REF. H <sup>o</sup>	PART. N*	DESCRIPTION	OUANT.
7 8 9 10	001 G-12 605-143 605-723 605-937 605-980 G250 R-9373 057 A-3 27.77 R-267 001 C-5,5	bar, top. base screw uupright tapered sieeve bracket knurled head screw elastic reel stand nut guide, reinforcing tape screw	1 4 1 1 1 1	13 14 15 16 1: 18 20 21	780256-0-00 004 U-8 17.177 P-071 004 G-3 G27.277 F-181 TS 20x30	guitle, reinforcing tupe, complete shoe lug, chaining plate finger, chaining machine, type nameplate screw plate screw presserfoot, complete screw. Frame securing	
I	•	i totti ille libraty of. Supe	ĮΙU	<b>-</b>	dewing inac	inine & Supply LLC	1

14

#### HEAD IDENTIFICATION

#### a) Identification numbers

- 1. Every head is identified by:
  - class or sub-class number
  - serial number
- 2. The class and sub-class number are engraved on the name-plate, on the base of the machine.
- 3. The head serial number is engraved on a boss on the bottom of the base.

#### II. TECHNICAL DATA BY MACHINE CLASS

The machines depicted in this catalogue are overedging machines with 2 needles, needle gauge 3/32", with the following general characteristics:

- 1. Straight needle, system RIM 27/Fmb Thickness 80 100.
- 2. Differential can be regulated while machine is running.
- 3. Push-button stitch length adjustment.
- 4. Stitch length variable from 6 to 30 stitches per inch.
- 5. Differential feed ratio: up to 3,5:1 and also up to 4:1.
- Width of bight: from 3/16" to 5/16".
- 7. Speed: from 6000 to 6500 RPM, depending on the type of application and manufacture.
- 8. Lubrication: by pump.
- 9. Motor: 1/3 HP or 1/2 HP, according to subclasses.
- 10. Outer dimensions of machine head: 12" x 9.3/4".
- 11. Weight: approx. 45 lbs.

#### . INSTALLATION AND TIMING

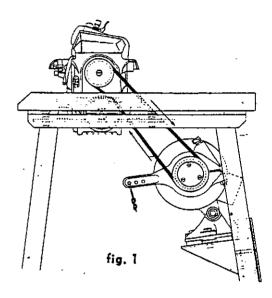
#### a) Positioning of head

After motor is mounted on stand, proceed as follows:

- 1. Force-fit the four rubber shock absorber pads on to the pins provided on the machine head bearing plate
- 2. Place machine head on table centering the lower holes in the head on the shock absorber pad pins.

#### b) Assembly of transmission

- 1. Install driving belt as shown in diagram 1.
- 2. Check that reverse of driving belt rides firmly and squarely on pump pulley, without slipping.
- 3. Adjust belt tension by loosening motor clamp
- 4. Level machine head by adjusting machine cradle bolts.
- 5. Tighten up machine cradle bott lock-nuts.



#### c) Filling lube oil sump (fig. 2)

- 1. Unscrew threaded cap 'A'.
- 2. Pour in 1 and 3/4 pts Esso Standard Teresso 43 oil.
- Check through oil-window that oil level is between the two red lines.
- 4. Replace and tighten cap 'A'.
- 5. Before starting up the machine, the following points should be lubricated:
  - needle clamp guide rod
  - upper looper bar
- Start machine slowly, letting it idle for about 5 minutes and gradually rev up from 1500 r.p.m. to rated operating speed.

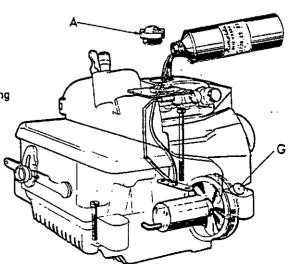
#### d) Assembly and adjustment of sewing parts

Note: The operations described below are for machine timing

- 1. Timing gauges required:
  - S. 1686.00 for all operations except operation 4 (fig. 4).
  - S.1555.00 for operation N. 4

#### 2. Preliminary disassembly of:

- Front cover plate
- Both thread take-ups of lower looper holder
- Side Cover Plate (casing) of needle movement
- Upper plate with oil indicator cap
- Side plate protecting needle movement
- Main feed dog



#### 3. Setting of needle (fig. 3).

- if the needle plate is in proper position, the needles must be centred for passage through the respective needle holes of the needle plate.
- the distance between the needle points and the top surface of the needle plate is 11/32 inch when the needle is at its highest point.
- if adjustment is necessary, loosen screw A (fig. 3) and move needle bar clamp up or down, using needle gauge \$.1686.00 as indicated in fig. 3 to obtain the correct setting. Retighten screw A.

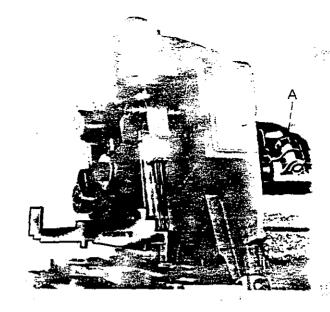
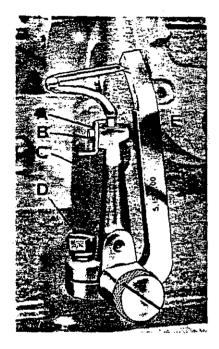


fig. 3



4. Setting primary looper (fig. 4

#### SETTING OF HEIGHT

- Joosen screw E.
- mount looper height gauge S.1555.00 on the primary looper shaft wis special screw supplied with gauge as shown in fig. 4.
- raise or lower looper so that its point contacts the upper line on timing gauges. 1555.00.
- slightly tighten screw E (fig. 4).
- set thread guide bracket A by raising thread guide bracket to the top of the primary looper shank.
- retighten screws B and E.
- remove looper height gauge S.1555.00.

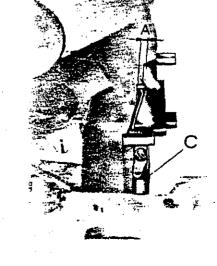
fig. 4

#### Setting angle

- Slightly loosen screw 'D'
- Place timing gauge S.1686.00 on milled surface of base as shown in fig. 5; shift lever C and turn looper (which has been set in place but not locked) until correct angle is obtained.
- Correct position can be checked by reference to the timing table.
- Firmly tighten up screw E (fig. 4).

Setting the primary looper in relation to the needle:

- When the primary looper has completed its stroke to the left and with the needle in its lowest position, the distance between the looper point and the needle should be as indicated in fig. 6.
- If adjustment is necessary move lever C along its rotation axis. In its stroke from left to right the looper point should pass 1 64" from the bottom of the needle scart.



Retighten screw D. The library of: Superior Sewing Machine & Supply LEG

#### 5. Timing Secondary Looper

Note: To set the dimension 11/32" in Fig. 8, rotate lever E upwards or downwards: remember that by doing this the dimensions in Fig. 7 will be increased or decreased.

- Slightly loosen screw B.
- Slightly loosen screw A.
- Adjust crossing of secondary and primary looper rotating the secondary so that its tip passes behind the primary looper barely skimming it.
- Check distances given in figures 7-8 (see timing table).
- During its left to right motion the secondary looper should barely skim the needle.

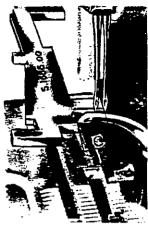
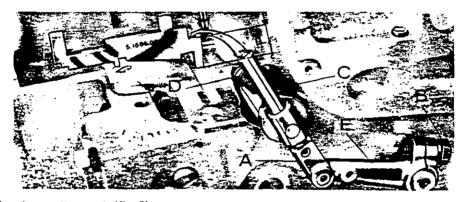


fig. 7

- If adjustment is required, slightly loosen Screw D and push the complete looper assembly inwards or outwards, avoiding any change in the distance already fixed. Make sure all parts move smoothly.
- Lock-screw D.
- Recheck to make sure the two loopers are crossing smoothly and verify all the other settings.
- Tighten up screws A and B.

fig. 6

- Finally, make sure all the assembly are moving smoothly.



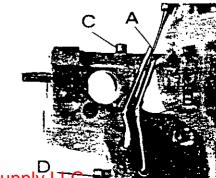
#### 6. Setting the needle guards (fig. 9)

fig.8

- To set front needle guard A, loosen screw C.
- With needles at their lowest position, set front needle guard so that it touches the needles.
- Retighten screw C.
- To set rear needle guard B, loosen screw D.
- With needles in their lowest position, set rear needle guard so that it touches needles without deflection.
- Retighten screw D.
- It must be checked that when working, any eventual slight bending of the needles does not cause them to break through impact with the primary looper. To do this, bend the needles slightly towards the inner part of the machine and check that the primary looper, during its stroke from left to right, passes without breaking them. If this is not the case, the needle guards need to be positioned correctly by bending them slightly just above the shanks, where the part is not so hard. Check that each needle operates in the corresponding plane of the front and rear needle guards.
- Thread the needles, bringing them to their lowest position and pushing them slightly against rear needle guard B.
- The thread must run freely. If this is not the case it means that the needle is too low and the thread is trapped between needle and needle guard.

NOTE:

- The point of the looper, in its stroke from left to right, must enter the needle scarf in its upper portion and in its stroke to the left, in the lower portion.
- For very hard synthetic fabrics the needle must flex considerably



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#### 7. Mounting lower trimmer knife (fig. 10)

- Mount guide block P on knife-holder with screw Q.
- Slide knife D into place.
- The cutting edge of the trimmer knife must be flush with the rear needle guard.
- Tighten up screw A.
- With the needles in its lowest position, bring angle stop O close to the needle guard, lock bushing L and washer G by tightening up screw F.
- Check that knife holder C moves smoothly and adjust setting for required bight.
- Slightly tighten screw N.
- With needles in its lowest position, bring guide block
- P close up to front needle guard and lock it by tightening up screw Q.
- After setting upper trimmer knife touching lower trimmer knife, slacken screw N. The proper pressure is applied between the knives by spring M and pin H.
- Press one finger lightly against screw A and tighten up screw N firmly.
- Pressure should be lightly exerted to avoid generating strong friction between the two knives resultating in their hardening.

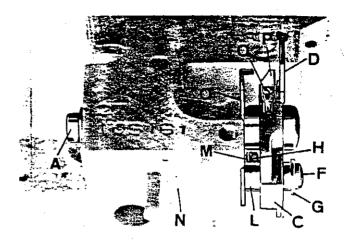
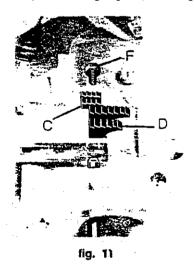


fig. 10

#### 8. Mounting and setting Feed Dogs (figures 11 and 12)

- Remove Plexiglass plate beneath work plate.
- Mount rear feed dogs C and D (fig. 11) and match the feed dog slides.
- With a small screwdriver pushed through the threaded holes on the levers, tighten screw F slightly, inserting
  the screwdriver into the groove on the tip of the screw.
- Mount the front differential feed dog E with screw G but do not tighten it up fully (fig. 12).
- Slacken screw A.
- Adjust feed dog angle by rotating eccentric B.



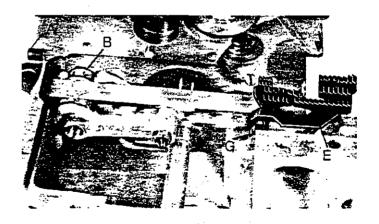


fig. 12

- The feed dog teeth visible through the needle plate should be absolutely flush with the latter.
- When the feed dogs are at their highest position, there should be a clearance of 1,3 mm, between the teeth and the needle plate at the front of the differential feed dog.
- Feed dog C should be lower than the other two.
- Lock screws F, G, and A.

#### 9. Feed mechanism (fig. 13).

Note: The machine heads illustrated in this catalogue are supplied with the feed mechanism already set for the type of use to which they will be put the library of: Superior Sewing Machine & Supply LLC If feed mechanism adjustment is required, proceed as follows:

#### 1. Inactivation of differential feed:

- Slacken nut B using wrench A supplied with the machine head, and raise pin Q on rear feed dog lever as high as it will go.
- Tighten up nut B; lower lever H against stop F and lock knurled knob R manually.

#### 2. Setting differential feed for ratio 2:1

- Slacken nut B.
- Set pin Q at highest position.
- Lock nut B.
- Lower lever H against stop G.

#### 3. Setting differential feed for retio 3,5:1

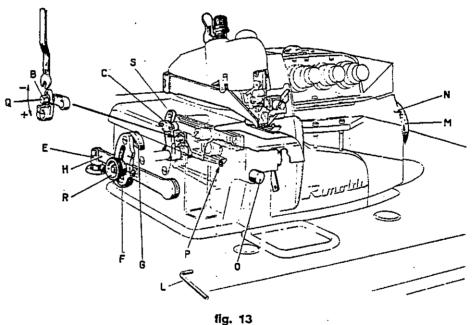
- Slacken nut B.
- Set pin Q in lowest position.
- Lock nut B.
- Lower lever H against stop G.

#### 4. Setting differential feed for ratio 4:1

- Raise cursor C to its highest position on slide-bar S
- Proceed as for item 3
- The differential ratio can be changed while the machine is in operation by adjusting lever E.

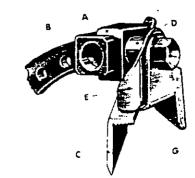
#### 5. Setting negative differential feed

- Slacken nut B.
- Set pin Q at highest position.
- Shift cursor C in lowest position.



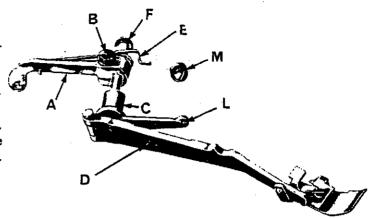
#### 10. Mounting upper trimmer knife (fig. 14).

- Mount upper trimmer knife C on knife holder block
- Mount knife holder block D and trimming guards E and G with screw F.
- Trimming guard E should be very close to cutting edge of knife C.
- When trimmer knife C is at its lowest position, its cutting edge should overlap the cutting edge of lower trimmer knife by 1/32".
- For this adjustment, shift trimmer knife in its slanting seat and knife holder block A on the upper knife holder B.
- Tighten up screw F and check that the upper knife, when in lowest position, does not touch front needle guard.



#### e) Positioning and adjustment of presserfoot arm (fig. 15).

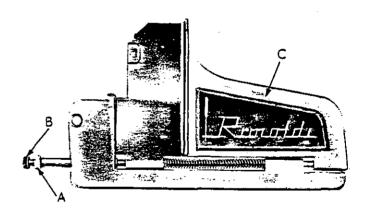
- Insert presserfoot arm shaft L in bushing C on which presserfoot bearing arm is hinged.
- Insert presserfoot arm shaft L with bushing C into hole provided in baseplate.
- Slide lever A and spring E on to shaft L.
- Slide snapring F on to shaft L.
- Set lifter lever A so that there is no end-play on presserfoot arm shaft L.
- Slightly tighten screw B.
- With needle at highest position, insert presserfoot bearing arm D in guide fork.
- Engage lifter lever A with presserfoot lifting foot pedal.
- When pedal is depressed it should have a slight idle stroke before actuating presserfoot bearing arm D.



- Adjust lifter lever A, by regulating screw in base beneath the lever, so that it lifts presserfoot to required position.
- Check movement of secondary looper; the latter should not impinge on presserfoot chaining finger when presserfoot is at its highest position. This undesirable condition can be prevented by adjusting eccentric washer M, below presserfoot bearing arm D, on side cover.
- Tighten up screw B.

#### f) Adjustment of front cover plate (fig. 16).

- The front cover plate should be closed before adjustment.
- The moving part C should not interfere with the front needle guard or the lower knife holder.
- The cover plate can be shifted towards left or right by adjusting screw B.
- Lock nut A.



#### g) Adjustment of needle thread take-up

For making up very tough fabrics, needle thread take-up 270-274/2 should be shifted forwards, towards operator.

#### **ELECTRIC LUBRICATION CONTROL DEVICE (PRESSURE SWITCH)**

#### h) Disassembly and replacement of pressure switch

- Take down oil cup from baseplate and drain out oil.
- Remove screw by which pressure switch bracket is mounted on oil cup...
- Slacken the two screws on the electric wire terminal lugs.
- Slip plastic tube connecting pressure switch to rubber connection off the pressure switch.
- Remove bracket and fix it to new pressure switch.
- Screw down electric wire lugs, slip plastic tube into pressure switch and mount switch on oil cup using the screws previously removed.
- Re-install oil cup and fill with oil as instructed on page 11, par c.

#### Replacement of pressure switch lamp

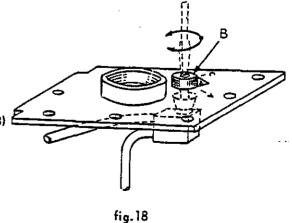
- Proceed as described under items 1 and 2 for replacement of pressure switch.
- Remove rubber tube, remove lamp (bayonet cap) and replace with new lamp.
- Re-install rubber tube, replace pressure switch in position and fasten firmly to oil with screw
- Re-install oil cup and fill with oil as instructed on page 11, par ic

#### Electrical connection of pressure switch on Zefir motors

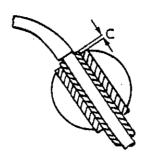
- Plug cable to current socket and insert plug at other end of cable in 12 V. light socket on motor.
   Note: If no light socket is provided on the motor to be connected, but the voltage connection box is provided with 12 V. connections, proceed as follows:
- Mount a Mignon socket pitch 13 at one end of a cable 4 5 inches long and at the other connect it to the 12 V.
   light terminal lugs.
- Plug cable to current socket at one end and to the above Mignon socket at the other.

Adjustment of forced feed lubrication rate to main shaft (fig. 18)

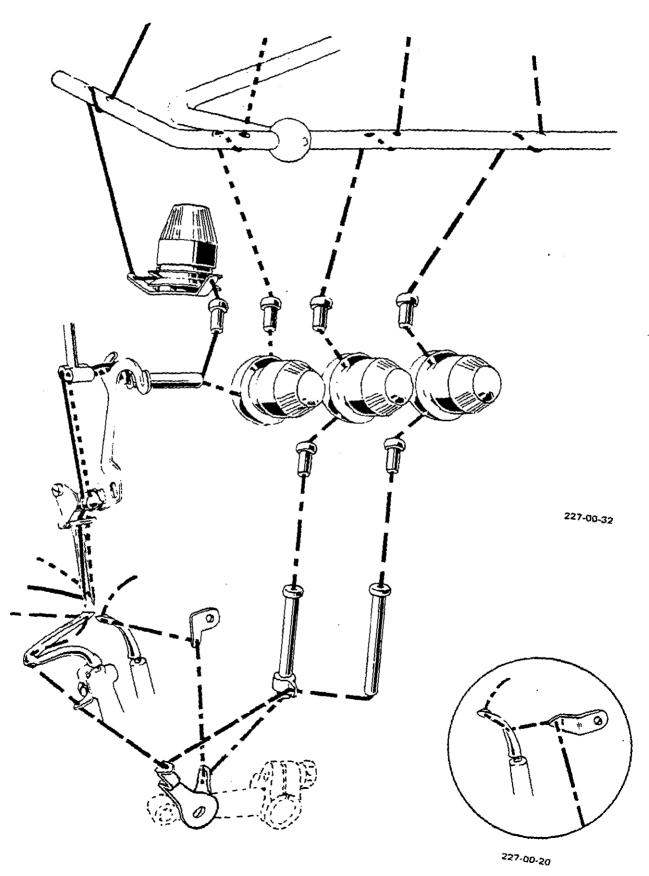
- Remove cover.
- Using a screwdriver, turn indicator B in required direction (Turning towards the letter C puched on the plate, the rate of flew is decreased, turning the indicator towards the letter A, the rate of flow is increased).



### TIMING TABLE



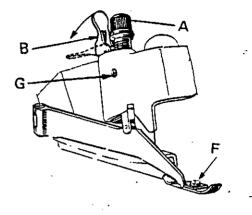
MACHINE HEAD NUMBERS	A	В	Ç	۵	F
227-00-32	2,5:2,8	1,5	3,3:3,5	0,5	
227-00-20 227-01-07	2,5፥3	1,5	8,5	0,3	8,8
227-00-21	2,5;3	1,5	3,5	0,3	8,8



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#### b) Needle change

- 1. Switch off motor.
- 2. Depress motor driving pedal to check that machine is absolutely motionless.
- 3. Set needle at top dead centre.
- 4. Lower lever B as far as it will go (fig. 19).
- 5. Swing out presserfoot from usual working position.
- Slacken needle set-screw by one half-turn using screwdriver 290-746.
- 7. Remove needle.
- 8. Insert new needle.
- The needle scarf should face the rear needle guard, i.e. towards the rear of the machine.
- Using pincers supplied with machine kit, check that needle touches the bottom of the hole.
- Retighten needle set-screw without displacing the needle, but do not apply excessive force.



#### c) Positioning and adjustment of presserfoot (fig. 19)

fig. 19

- 1. Check that presserfoot is in proper position.
- 2. Needle should pass between pressurefoot shoe and chaining finger.
- 3. To adjust presserfoot slacken screw F.
- 4. Center presserfoot in proper position and tighten up screw F.
- 5. Presserfoot pressure is increased or slackened by loosening screw G with wrench 633-742 and adjusting knurled knob A.
- 6. Lock knob A by tightening up screw G with wrench 633-742.

#### d) Tensioning discs adjustment

- 1. Tighten tension discs just enough for even stitch formation.
- 2. Avoid over-tightening.

#### e) Stitch length adjustment (fig. 13)

- 1. Slacken screw P using appropriate wrench.
- 2. Depress pushbutton O and turn handwheel M until tip of pushbutton slips into the notch on the regulator.
- 3. Holding pushbutton O firm, turn handwheel M vigorously until indicator N shows the desired length on the handwheel.
- 4. Tighten up screw P firmly.

#### f) Seam width adjustment

Seam width can be adjusted within a very narrow range beyond which the needle plate must be changed. To vary seam width within the above narrow range, proceed as follows:

- 1. Slacken screw N of lower knife holder (fig. 10).
- 2. Slacken screw F (fig. 14).
- 3. Shift upper knife holder block A (fig. 14) to right or left until desired seam width is obtained.
- 4. Tighten up screw F (fig. 14)
- 5. Lower knife holder should be checked and set as described in paragraph d) 7.

No.	TROUBLE	PROBABLE CAUSE
1	Uneven stitches	<ul> <li>Tension badly adjusted</li> <li>Thread take-ups incorrectly adjusted</li> <li>Wrong threading</li> <li>Yarns not gauged</li> </ul>
2	Feed and Fabric slipping sideways	- Presserfoot pressure too light - Height and slant of feed dogs not properly adjusted - Knives require sharpening - Differential badly adjusted
3	Machine skipping stitches	<ul> <li>Primary or Secondary Looper badly adjusted in respect of needle so that looper becomes blunted</li> <li>Loopers too far apart at crossing</li> <li>Loopers too near at crossing, thus becoming blunted</li> <li>Front needle guard too far from needle</li> <li>Needle not set in proper position</li> </ul>
4	Thread breaking	— Tensions too taut — Yarn irregularly wound on reel
5	Needle breaking	Needle bent    Needle badly mounted
6	Fabric being punctured	- Blunt needle - Needle size unsuitable for plate - Needle point unsuitable
7	Oil leaking	<ul> <li>Screws mounting oil cup on base not sufficiently tightened up</li> <li>Oil cup plug not screwed down tightly</li> <li>Oil cup gasket badly mounted</li> </ul>
8	Faulty lubrication	- Oil level too low - V - belt incorrectly mounted - Upper tube clogged - Lubrication pump filter clogged

#### a) Daily

Lightly clean feed and stitch formation mechanisms.

#### b) Weekly

- 1. Thoroughly clean, removing needle plate, feed dogs, front and read needle guard and loopers.
- 2. Open front cover plate and carefully clean front cavity.
- 3. Clean inside the needle movement mechanism casing.

#### c) Quarterly

- 1. Using wrench provided with service kit, remove plug beneath oil sump and drain off oil completely.
- 2. Unscrew screw 007-M-15 by which filter is mounted on drain plug.
- 3. Remove filter and clean thoroughly by immerging in gasoline.
- 4. Blow filter and plug with jet of compressed air.
- 5. Soak felt gasket with clean oil.
- 6. Replace plug.
- 7. Fill oil cup with 1 and 3/4 pts fresh VR 604 oil.

#### IMPORTANT

When following instructions given in paragraph c, 1, do not unscrew drain plug completely immediately, but allow most of the oil to drain out from the side slots in the plug as shown in (fig. 20).

#### d) Sharpening knives

- 1. Sharpen knives using RIMOLDI knife sharpener and the special block provided, which assures the exact angle of sharpening. The sharpening block is supplied on request.
  - e) Instructions for taking down and removing cam shaft (if necessary).
  - Tools required supplied on request only.
  - Pincers type S. 0560/00
  - Pincers type S. 0459/00
  - Püller type S. 0416/00

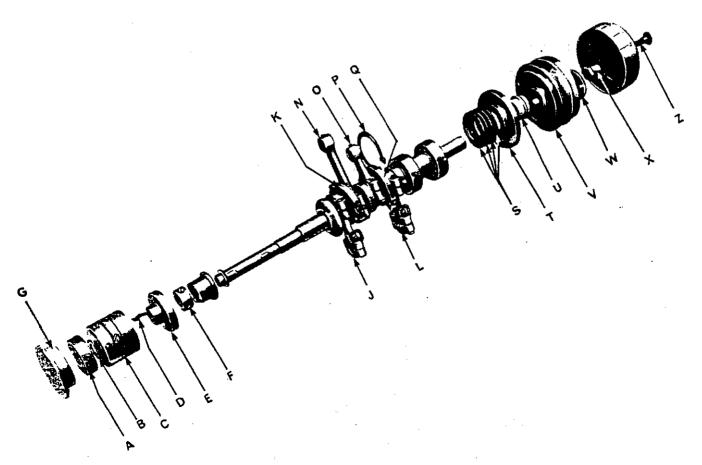
#### IMPORTANT

It is absolutely necessary for the main parts of the shaft-connecting rod assembly to be re-installed in their original position. The refore proceed as follows:

- Re-instal flanges G and I with lubrication hole facing downwards.
- Leave all connecting rod lock-screws in their own holes.
- Connecting rods J and L are identified by a 2 punched on the L big-end and three lines on the J rod surface.
- For positioning the connecting rod cap a reference mark is provided on both the cap and connecting rod.
   Both marks should be on the same side.
- For positioning connecting rod N reference is made to the drawing number on the handwheel side.

#### **OPERATION SEQUENCE**

- 1. Turn stitch length to reference 5 on handwheel.
- 2. Remove screw Z.
- 3. Turn stitch lenght to reference O on handwheel.
- 4. Remove flange G.
- 5. Slacken the two screws on eccentric C.
- 6. Remove ball bearing A and eccentric C, using puller S. 0416/99.
- 7. Remove spring D from regulator E, using pincers S. 0560/00.
- 8. Slacken screws on ring F.
- 9. Remove caps from connecting rods N,O,J,L.
- 10. Remove cover Y from handwheel.
- 11. Slacken hex screw X.
- 12. Remove washer W.
- 13. Remove hanwheel V.
- 14. Remove flange T.
- 15. Slide off spacer U.
- 16. Remove cup spring S.
- 17. Pull off snap-ring P using pincers S.0459/00, slightly shifting cam to the right.
- 18. Remove sectors K and Q.
- 19. Remove shaft.



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