

brother

SINGLE NEEDLE LOCK STITCH UNISON FEED SEWING MACHINE

EINZELNADEL-VERRIEGELUNGSSTICHNÄHMASCHINE MIT NADELTRANSPORT

MACHINE À POINT PIQURE, UNE AIGUILLE AVEC ENTRAÎNEMENT TRIPLE COMBINÉ

**MÁQUINA DE TRANSPORTE DE AGUJA ÚNICA RIBETeadora DE DOBLE
PESPUNTE**

LS2-B837

PARTS BOOK

TEILEKATALOG

LIVRE DES PIECES

LIBRO DE REFERENCIA DE PIEZAS

P837302

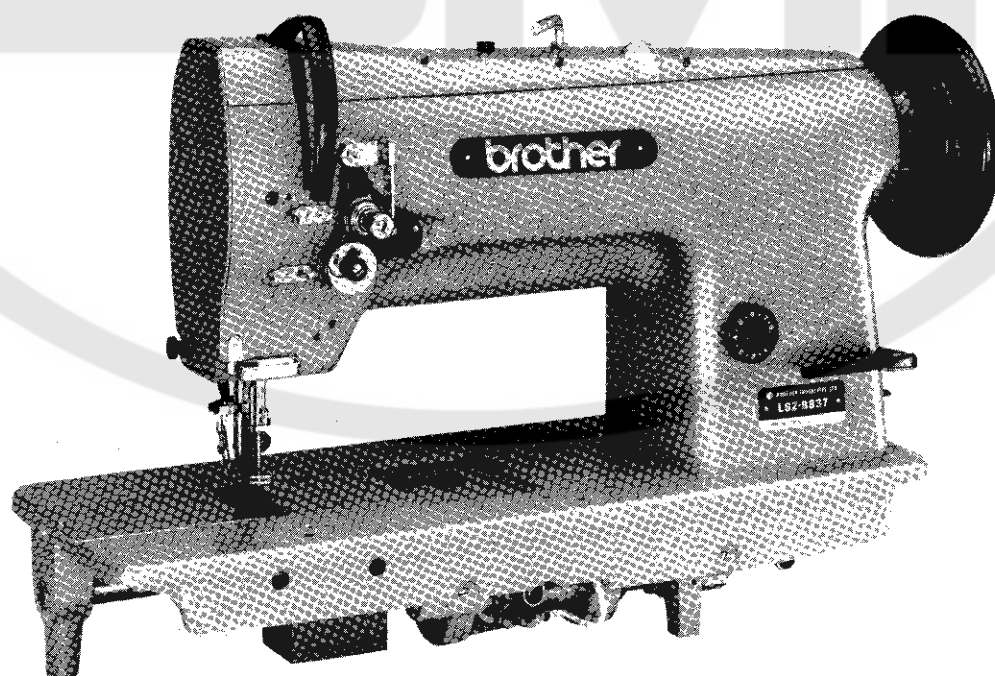


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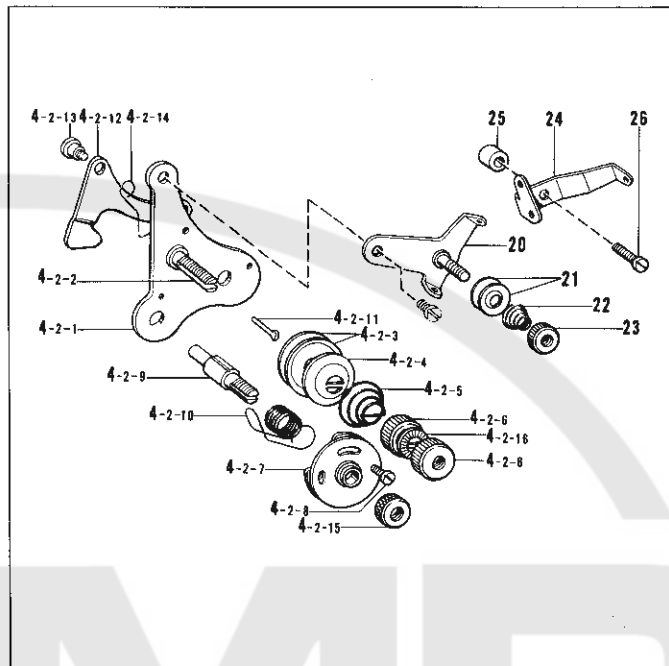
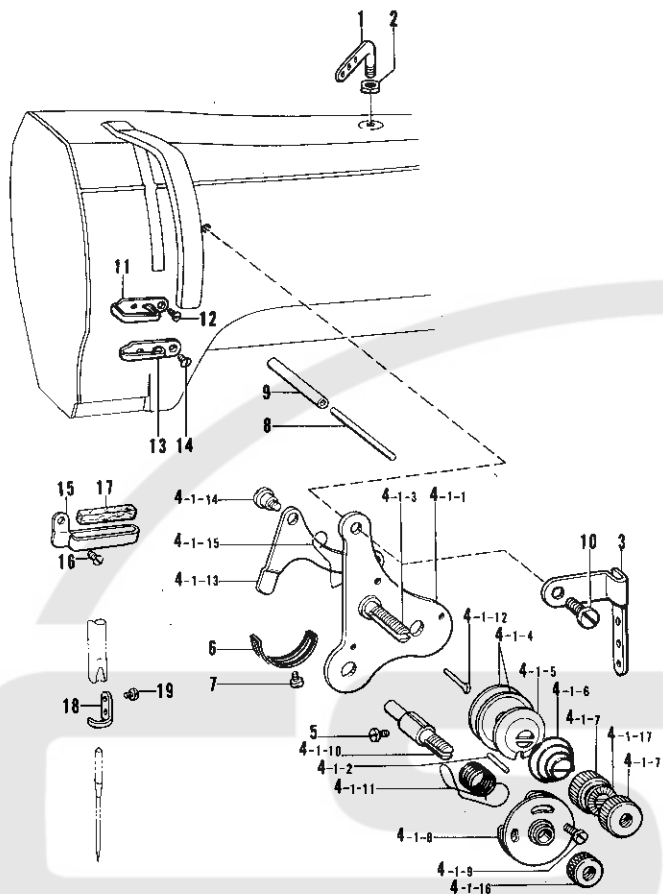
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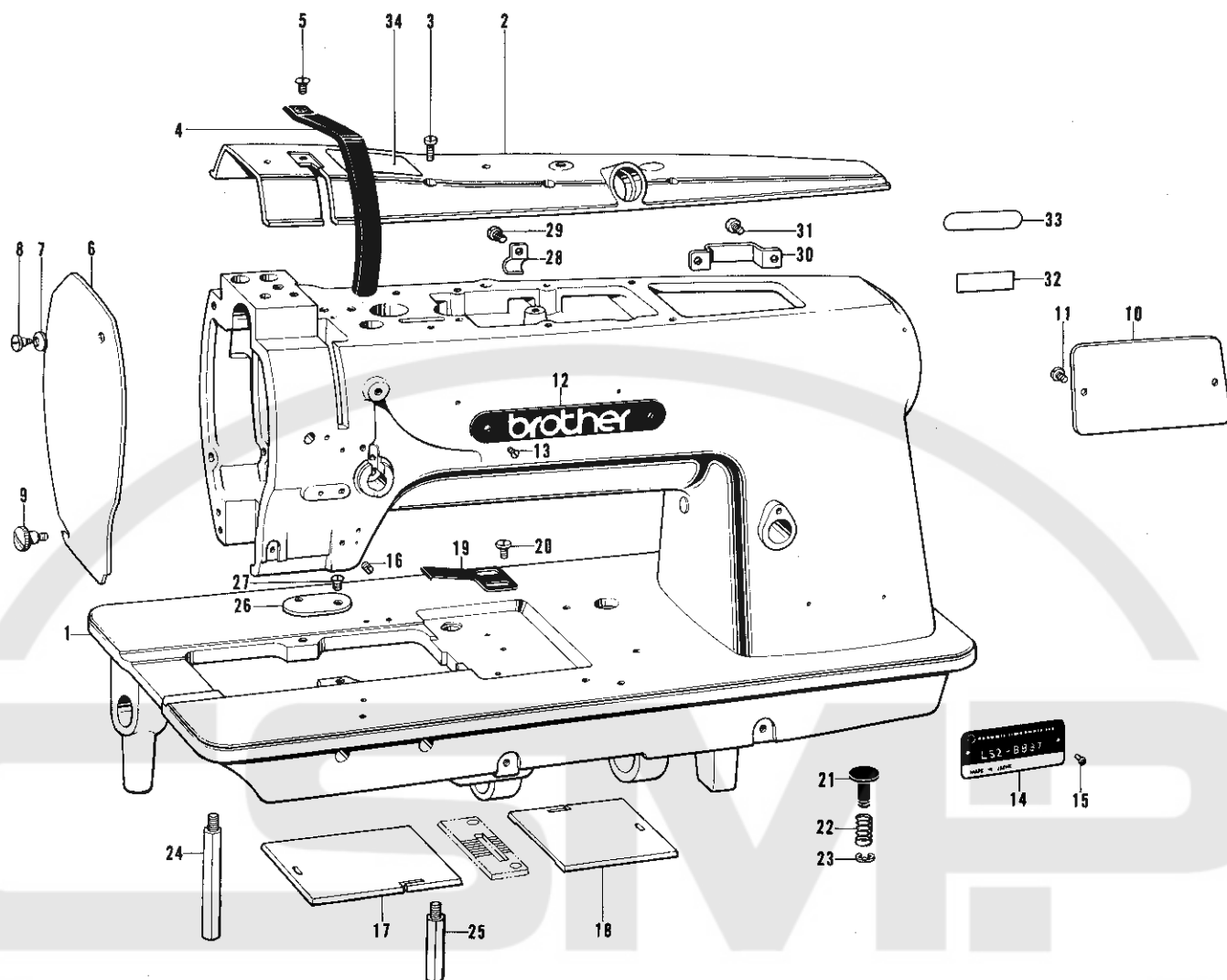
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B. Threading mechanism / FadenführungsVorrichtung
Mécánisme de Jénfilage / Mécánismo de la enhebrado



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
1	Top Cover Thrad Guide	1	140527-001		4-2-10	Thread Take-up Spring	1	151011-001	B-4-2
2	Nut 5.95	1	150553-003		4-2-11	Pin	1	148670-001	Upper Tension
3	Thread Retainer (for Standard)	1	151008-001		4-2-12	Tension Release Lever	1	156394-001	Control
4-1-1	Under Thread Tension Plate	1			4-2-13	Stud Screw 3.57	2	112712-001	Assembly
4-1-2	Pin	1			4-2-14	Tension Release Spring	1	118320-001	(for Thread
4-1-3	Tension Stud	1			4-2-15	Upper Thread Tension Adjusting Nut	1	151012-001	Trimmer)
4-1-4	Tension Disc	2	108263-001		4-2-16	Stop Ring	1	151148-001	156393-001
4-1-5	Tension Disc	1	148669-001		5	Screw 357-40 x 10	1	062671-012	
4-1-6	Tension Spring	1	145153-001	B-4-1	6	Stopper	1	112709-001	
4-1-7	Tension Control Nut	2	108265-001	Upper	7	Screw 357-40 x 6	1	062670-612	
4-1-8	Spring Guide Assembly	1	108254-001	Tension	8	Thread Tension Releaser	1	112713-001	
4-1-9	Screw 2.38	1	118319-001	Control	9	Pipe	1	112714-000	
4-1-10	Tension Stud	1	108260-001	Assembly	10	Screw 437-40 x 10	1	062681-012	
4-1-11	Thread Take-up Spring	1	151011-001	(for Standard)	11	Arm Thred Guide (Upper)	1	151013-001	
4-1-12	Pin	1	112710-001	151009-001	12	Screw 3.57	1	108960-002	
4-1-13	Tension Release Lever	1	112711-001		13	Arm Thread Guide (Center)	1	112658-001	
4-1-14	Stud Screw 3.57	2	112712-001		14	Screw 3.57	1	108960-002	
4-1-15	Tension Release Sprng	1	118320-001		15	Arm Thread Guide (Lower)	1	112715-001	
4-1-16	Upper Thread Tension Adjusting Nut	1	151012-001		16	Screw 3.57	1	108960-002	
4-1-17	Stop Ring	1	151148-001		17	Felt	1	114941-001	
4-2-1	Under Thread Tension Plate	1			18	Needle Bar Thread Guide	1	151014-001	
4-2-2	Tension Stud	1			19	Screw 2.38	1	104336-003	
4-2-3	Tension Disc	2	145446-001	B-4-2	20	Thread Guide Assembly (for Thread Trimmer)	1	156395-001	
4-2-4	Tension Disc Washer	1	159805-001	Upper Tension	21	Thread Guide Disc (for Thread Trimmer)	2	144504-001	
4-2-5	Tension Spring	1	145153-001	Control	22	Spring (for Thread Trimmer)	1	158782-101	
4-2-6	Tension Control Nut	2	108265-001	Assembly	23	Nut (for Thread Trimmer)	1	155510-001	
4-2-7	Spring Guide Assembly	1	108254-001	(for Thread	24	Thread Guide F1 (for Thread Trimmer)	1	155493-001	
4-2-8	Screw 2.38	1	118319-001	Trimmer)	25	Mounting Bracket Collar 21 (for Thread Trimmer)	1	153215-001	
4-2-9	Tension Stud	1	108260-001	156393-001	26	Screw 357-40 x 14 (for Thread Trimmer)	1	062671-412	

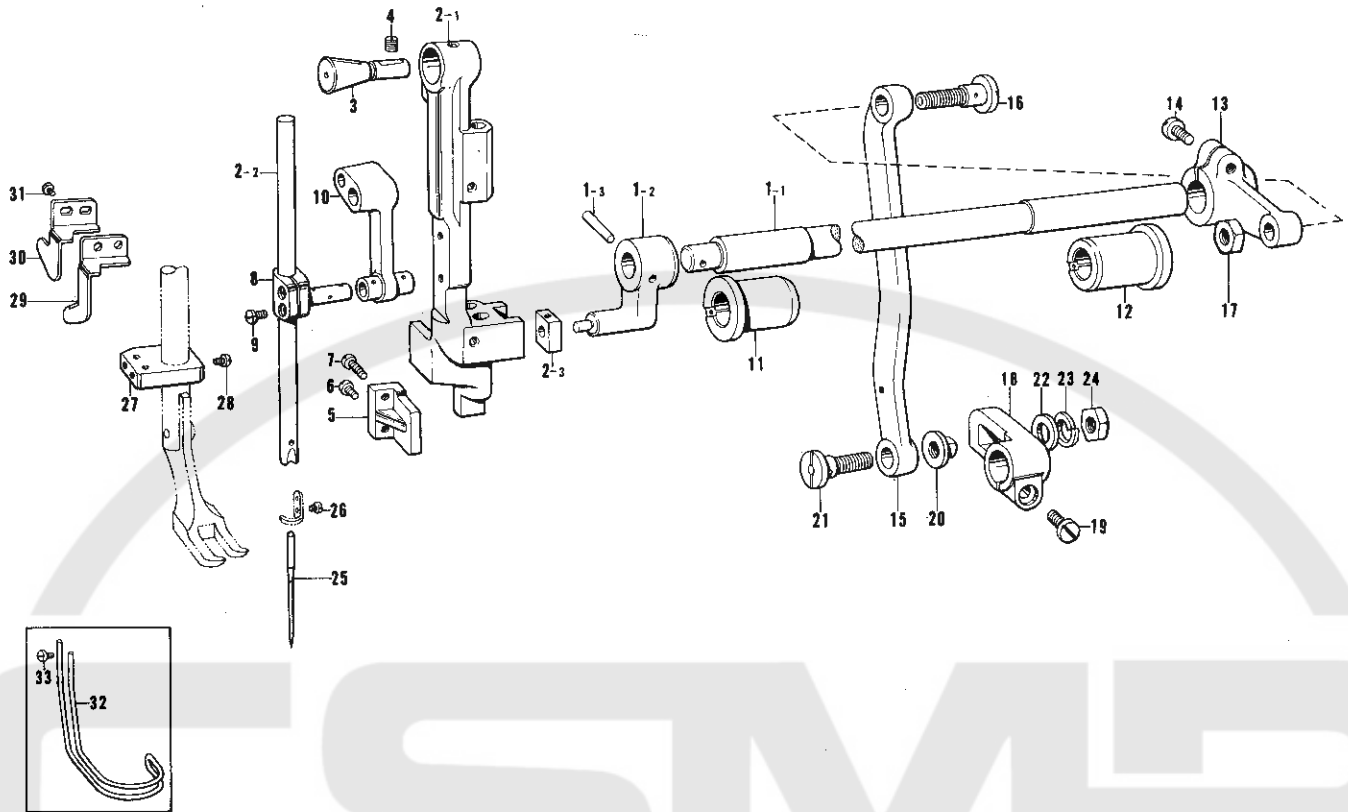
A. Machine body / Maschinengehäuse
Corps de la machine / Denominación del mecanismo



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
1	Arm Bed	1			19	Slide Plate Stopper	1	150897-001	
2	Top Cover	1	150890-002		20	Screw 4.37	2	106629-002	
3	Screw 4.37-40 x 12	7	062681-212		21	Pressing Button (for Standard)	1	112677-001	
4	Thread Take-up Cover	1	150891-002			Pressing Button (for Thread Trimmer)	1	156384-001	
5	Screw 4.76	1	107231-002		22	Spring	1	103607-000	
6	Face Plate	1	150892-002		23	Stop Ring E4	1	048040-342	
7	Spring Washer	1	146598-001		24	Bed Leg	1	156352-001	
8	Stud Screw 3.57	1	153112-001		25	Bed Leg (S)	1	156353-001	
9	Screw 3.57	1	129984-002		26	Cover	1	148614-001	
10	Rear Cover	1	112566-003		27	Screw 3.18	2	149288-002	
11	Screw 3.57-40 x 6	2	062670-612		28	Supporter	4	140647-001	
12	Name Plate	1			29	Screw 3.57-40 x 6	4	062670-612	
13	Pin	2			30	Cord Holder (LL)	1	148818-001	
14	Model Plate	1			31	Screw 3.57-40 x 6	2	062670-612	
15	Pin	2			32	Name Plate	1		
16	Screw 4.37	1	151602-002		33	Parts Book Number Plate	1		
17	Slide Plate (L)	1	150895-001		34	Label	1		
18	Slide Plate (R)	1	150896-001						

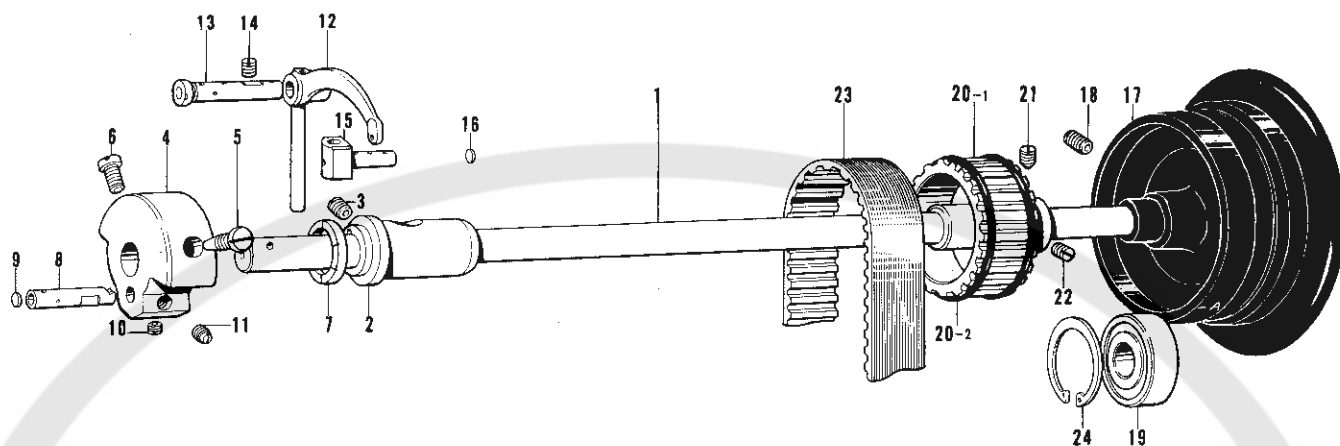
D. Needle bar rocking mechanism / Nadelstangebetätigung

Mécanisme de balancement de la barre à aiguille / Mecanismo de oscilación de la barra de aguja



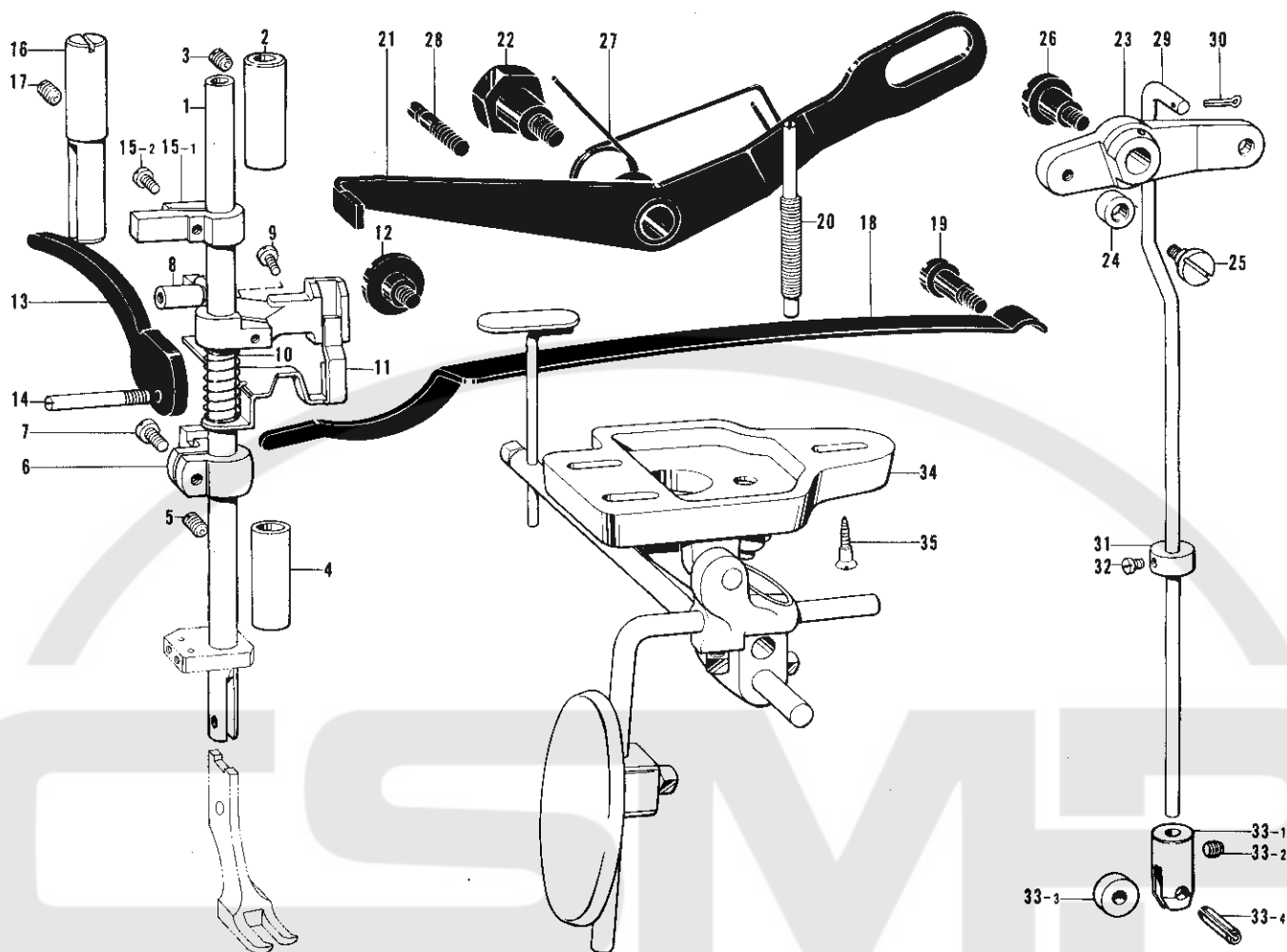
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
1-1	Needle Bar Rock Shaft	1		D-1 Needle Bar Rock Shaft Assembly 150901-001	16	Needle Bar Rock Link Stud	1	112597-001	
1-2	Needle Bar Rock Arm	1	150902-001		17	Nut 7.94	1	101268-002	
1-3	Taper Pin	1	107030-001		18	Needle Bar Rock Crank	1	150914-001	
2-1	Needle Bar Support	1		D-2 Needle Bar Support Assembly 150904-001	19	Screw 6.35 x 18	1	S01304-001	
2-2	Needle Bar	1	150906-001		20	Needle Bar Rock Crank Collar	1	150915-001	
2-3	Needle Bar Guide Slide Block	1	150907-001		21	Needle Bar Rock Link Stud	1	150916-001	
3	Needle Bar Sutud	1	150908-001		22	Washer	1	100197-002	
4	Screw 6.35 x 10	1	013781-012		23	Washer 7	1	203735-001	
5	Needle Bar Support Swing Stopper	1	150909-001		24	Nut 7.14	1	021800-102	
6	Screw 437-40 x 14	1	062681-412		25	Needle DP x 17 #23 (for Standard)	1	145646-023	
7	Screw 437-40 x 20	1	062682-012		25	Needle DP x 17 #22 (for Thread Trimmer)	1	145646-022	
8	Needle Bar Clamp	1	150910-001		26	Screw 3.57	1	144458-001	
9	Screw 357-40 x 8	2	062670-812		27	Finger Guard Supporter	1	151191-001	
10	Needle Bar Crank Rod	1	150911-001		28	Screw 3.57	1	144458-001	
11	Needle Bar Rock Shaft Bushing (Left)	1	112594-001		29	Thread Cutter (for Standard)	1	151192-001	
12	Needle Bar Rock Shaft Bushing (Right)	1	112764-001		30	Thread Cutter Guide Plate (for Standard)	1	151193-001	
13	Needle Bar Rock Connecting Rod	1	150912-000		31	Screw 318-40 x 5 (for Standard)	2	062660-512	
14	Screw 6.35 x 18	1	S01304-001		32	Finger Guard (Option Parts)	1	150917-001	
15	Needle Bar Rock Link	1	150913-001		33	Screw (Option Parts)	2	149177-001	

C. Upper shaft mechanism / Obere Welle
M canisme de l'arbre sup rieur / M canismo de la eje superior



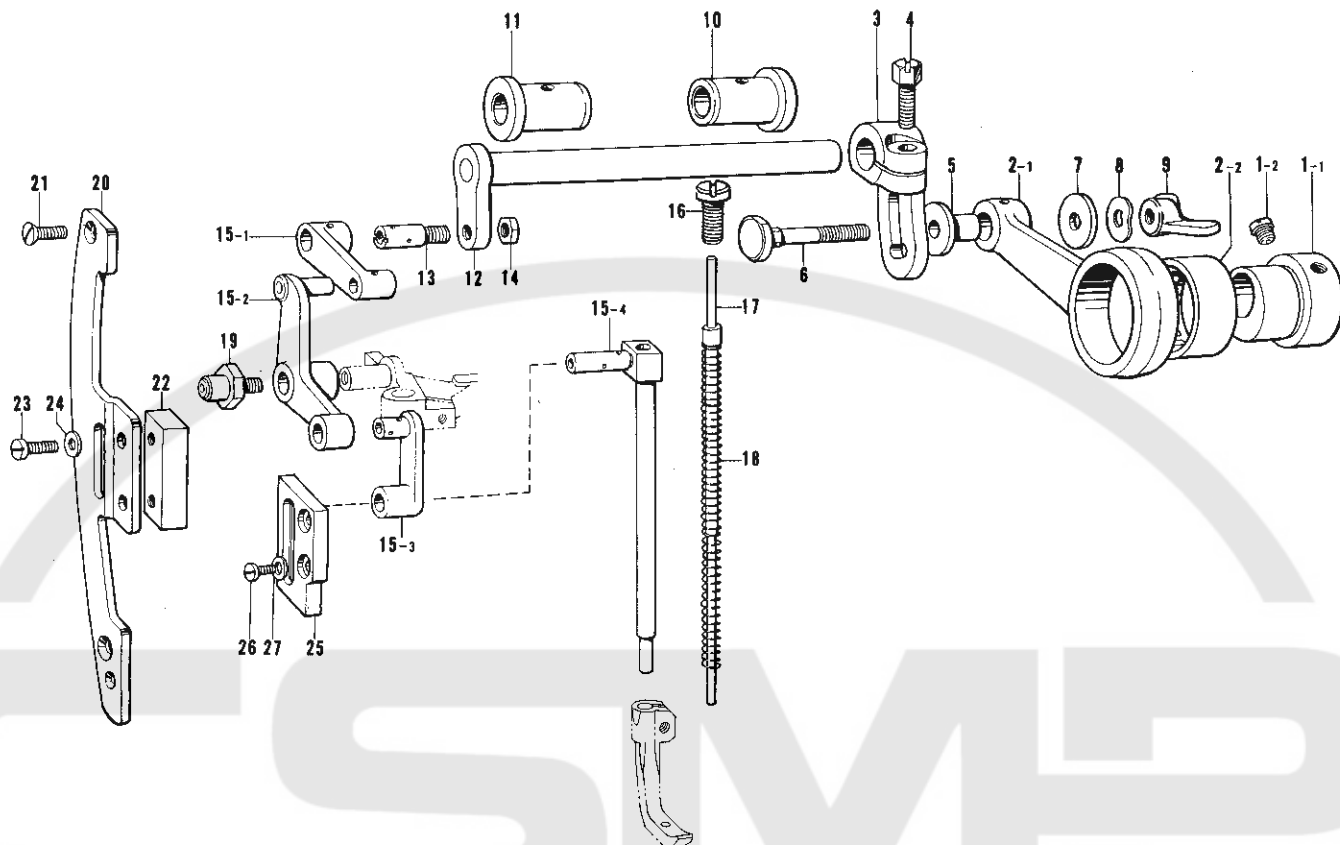
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
1	Upper Shaft	1	112572-001		14	Screw 5.95	2	013761-410	
2	Upper Shaft Bushing (Left)	1	112573-001		15	Thread Take-up Lever Slide Block	1	150899-001	
3	Screw 5.95	1	013761-410		16	Pusher	1	113024-000	
4	Counter Weight	1	112574-000		17	Pulley (for Standard)	1	150900-101	
5	Screw 7.14	1	100250-001			Pulley (for Thread Trimmer)	1	S01035-001	
6	Screw 7.14	1	146141-001		18	Screw 5.95	2	013761-410	
7	Thrust Ring	1	112576-001		19	Bearing 6204	1	072620-460	
8	Needle Bar Crank	1	112577-001		20-1	Timing Belt Wheel (Upper)	1	C-20 Timing Belt Wheel (Upper Assembly) 180157-001	
9	Pusher	1	113014-000		20-2	Side Ring	2		
10	Screw 6.35	1	101706-001		21	Screw 6.35 x 12	1	015771-212	
11	Screw 6.35	1	100251-001		22	Screw 6.35 x 12	1	013771-212	
12	Thread Take-up Lever (for Standard)	1	150898-001		23	Timing Belt	1	112586-001	
	Thread Take-up Lever (for Thread Trimmer)	1	S01022-001		24	Stop Ring C	1	112760-001	
13	Stud	1	112579-001						

F. Presser foot mechanism / Stoffdruckerfuß
Mécanisme du pied presseur / Mécánico del prensa telas



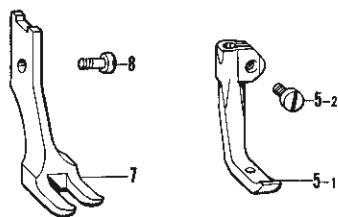
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
1	Presser Bar	1	112614-001		21	Knee Lifter Lever	1	150923-101	
2	Presser Bar Bushing (Upper)	1	112615-001		22	Stud Screw 6.35	1	151073-001	
3	Screw 5.95 x 6	1	013760-610		23	Knee Lifter Connecting Lever (for Standard)	1	151072-001	
4	Presser Bar Bushing (Lower)	1	112763-001			Knee Lifter Connecting Lever (for Thread Trimmer)	1	156453-001	
5	Screw 5.95	1	151605-001		24	Roller	1	141868-001	
6	Presser Bar Bracket	1	112616-001		25	Stud Screw	1	145094-001	
7	Screw 357-40 x 8	1	062670-812		26	Screw 6.35	1	149991-001	
8	Presser Bar Lifter	1	150918-001		27	Knee Lifter Lever Spring	1	150924-001	
9	Screw 476-32 x 20	1	062712-012		28	Stopper Screw	1	112630-001	
10	Tension Release Spring	1	150919-001		29	Knee Lifter Connecting Rod	1	155447-101	
11	Tension Release Plate	1	150920-001		30	Pin	1	114909-000	
12	Screw (for Standard)	1	112631-001		31	Set Collar	1	159436-001	
13	Presser Foot Lifter	1	150921-001		32	Screw 4.37	1	104908-004	
14	Screw	1	112619-001		33-1	Roller Bracket	1	156825-001	F-33 Roller Bracket Assembly 156824-001
15-1	Presser Bar Guide	1		F-15 Presser Bar Bracket Assembly 150950-001	33-2	Screw 4.37	1	151601-002	
15-2	Screw 437-40 x 7	1	062680-712		33-3	Roller	1	112636-001	
16	Presser Bar Guide Shaft	1	150922-001		33-4	Spring Pin AW5	1	047501-242	
17	Screw 5.95 x 6	1	013760-610		34	Knee Lifter Assembly (for Standard)	1	151098-001	
18	Presser Plate Spring	1	118170-101			Knee Lifter Assembly (for Thread Trimmer)	1	156454-001	
19	Stud Screw 6.35	1	112623-001		35	Screw 6.2 x 32	3	106030-001	
20	Presser Adjusting Screw	1	112624-001						

E. Upper Feed Mechanism / Obertransportvorrichtung
Mécanisme de l'entraînement supérieur / Mecanismo de la alimentación superior



Ref No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
1-1	Upper Feed Eccentric Wheel	1		E-1 Upper Feed Eccentric Wheel Assembly 150931-001	15-1	Bell Crank Link	1	150945-001	E-15
1-2	Screw 6.35	2	102627-001		15-2	Bell Crank	1	150946-001	Upper Feed Assembly 150944-001
2-1	Upper Feed Connecting Rod	1	150934-000	E-2 Upper Feed Connecting Rod Assembly 150933-000	15-3	Upper Feed Presser Link	1	150947-001	
2-2	Needle Bearing	1	118954-000		15-4	Upper Feed Presser Bar	1	150948-001	
3	Upper Feed Eccentric Wheel Crank	1	150935-001		16	Adjusting Screw	1	150949-001	
4	Screw 6.35	1	150936-001		17	Presser Bar Presser	1	150950-001	
5	Collar	1	150937-001		18	Presser Bar Presser Spring	1	150951-001	
6	Hinge Screw	1	150938-001		19	Bell Crank Roller Stud Assembly	1	150952-001	
7	Thrust Collar	1	151090-001		20	Roller Stud Guide Plate	1	150954-001	
8	Washer	1	107017-002		21	Screw 4.76	2	107231-002	
9	Nut 6.35	1	151015-001		22	Roller Stud Guide	1	150955-001	
10	Upper Feed Shaft Bushing (R)	1	150940-000		23	Screw 437-40 x 12	2	062681-212	
11	Upper Feed Shaft Bushing (L)	1	150941-000		24	Washer 4.37	2	025680-132	
12	Upper Feed Shaft	1	150942-001		25	Guide Plate	1	150956-001	
13	Stud Screw	1	150943-001		26	Screw 437-40 x 12	2	062681-212	
14	Nut 6.35	1	150554-002		27	Washer 4.37	2	025680-132	

H. Gauge parts mechanism / Lehren
 Pièces d'écartement / Piezas calibradoras



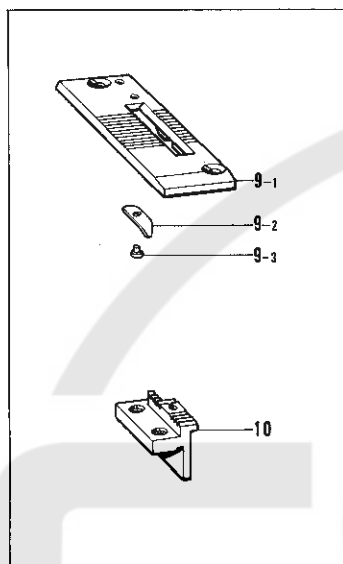
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
1	Needle Plate (for Standard)	1	150959-001	
2	Screw 4.37	2	158384-001	
3	Feed Dog (for Standard)	1	150960-001	
4	Screw 3.18	2	116283-001	
5-1	Presser Foot	1		14-5 Presser Foot Assembly ※
5-2	Screw 437-40 x 6	1	062680-612	
7	Walking Foot	1	※	
8	Screw 3.57	1	113050-001	
9-1	Needle Plate	1		H-9 Needle Plate Assembly (for Thread Trimmer) 156374-001
9-2	Spring	1	148708-101	
9-3	Pin	1	148709-001	
10	Feed Dog (for Thread Trimmer)	1	156376-001	

* If there is a "※" mark in the part code column or assembly code column, refer to the gauge assembly guide on page 19, 20.

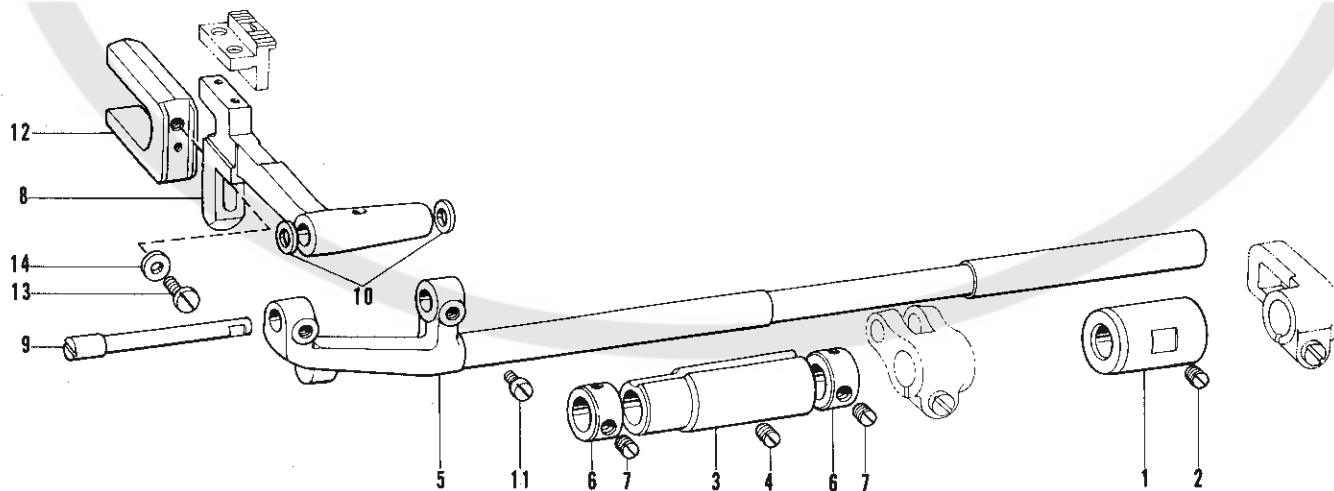
* Falls in den Kolonnen für Teilcode und Satzcode das Zeichen "※" steht, wird auf die Zusammenstellung der Vorrichtungen auf Seite 19,20 verwiesen.

* Si le signe apparaît dans la colonne du code des pièces ou dans celle du code d'assemblage, se reporter à la page 19,20 du guide de montage de la jauge.

* Si aparece una marca "※" en la columna de código de piezas o en la columna de código de armado, consultar la guía de armado de galga en la página 19,20.

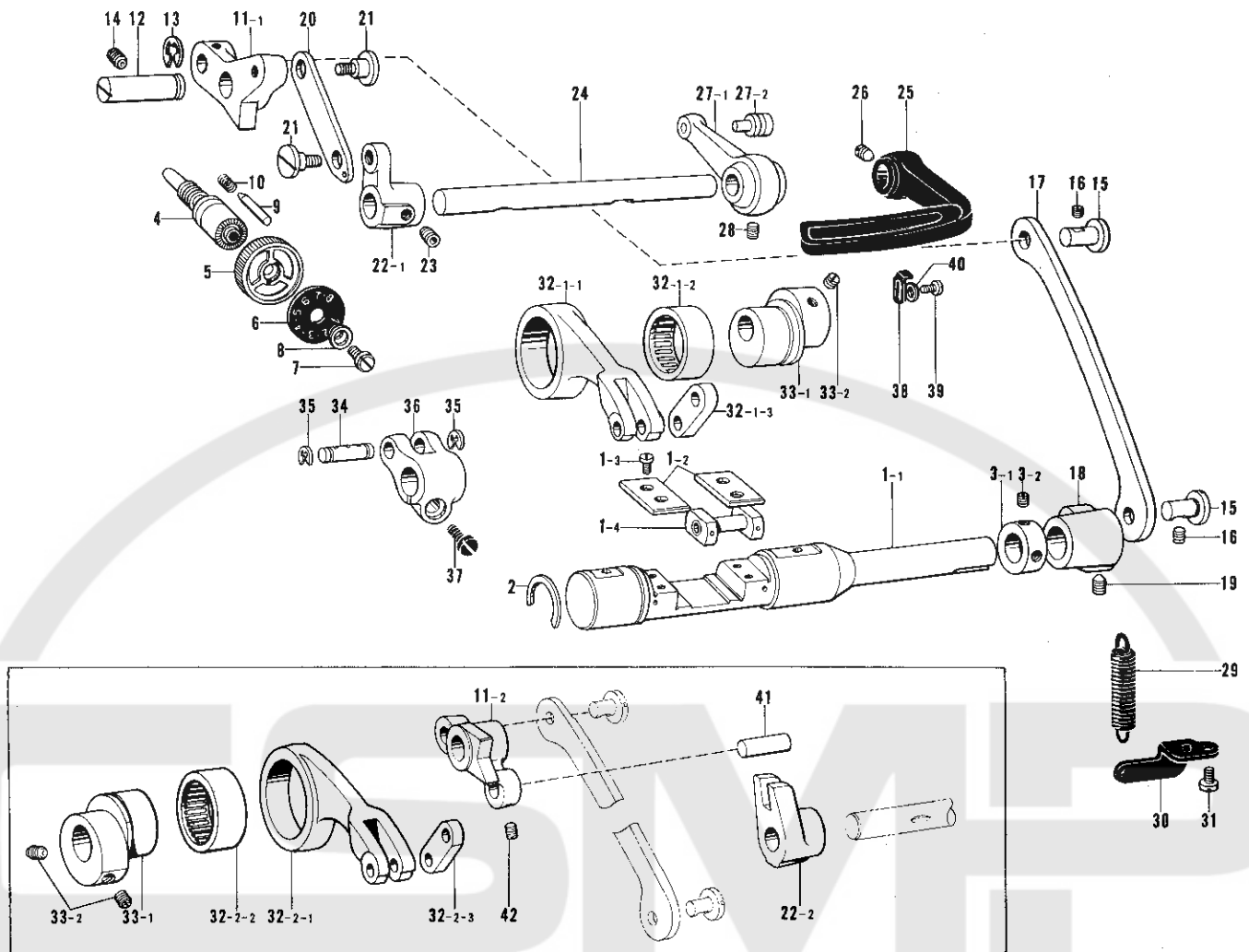


J. Feed shaft mechanism / Transport welle
 Mécanisme de l'arbre entraînement / Mecanismo de la eje alimentación



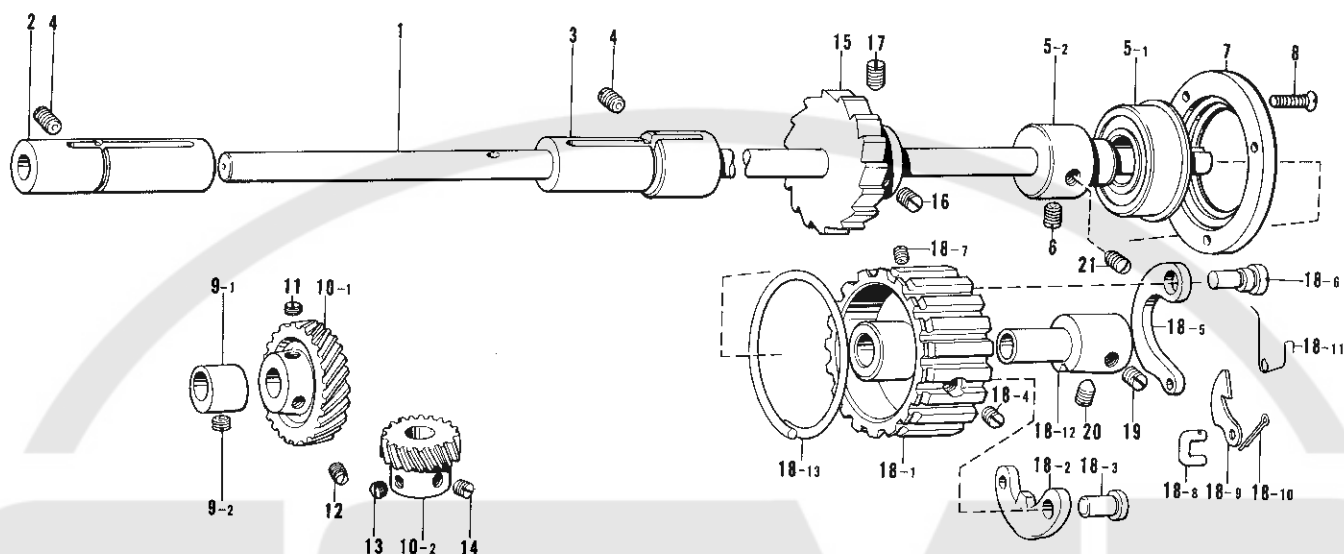
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
1	Feed Rock Shaft Bushing (Right)	1	148493-001		8	Feed Bar	1	150957-001	
2	Screw 5.95 (for Standard)	1	013761-410		9	Feed Bar Shaft	1	148977-001	
3	Feed Rock Shaft Bushing (Left)	1	148494-001		10	Thrust Ring	2	143591-001	
4	Screw 5.95	1	013761-410		11	Screw 4.37	2	104908-004	
5	Feed Rock Shaft	1	148976-001		12	Feed Bar Fork	1	150958-001	
6	Feed Rock Shaft Collar	2	113074-001		13	Screw 595-28 x 14	1	062761-412	
7	Screw 6.35	4	101706-001		14	Washer 6	1	025060-132	

G. Feed mechanism / Transportvorrichtung
Mécanisme de l'entraînement / Mécanismo de la alimentación



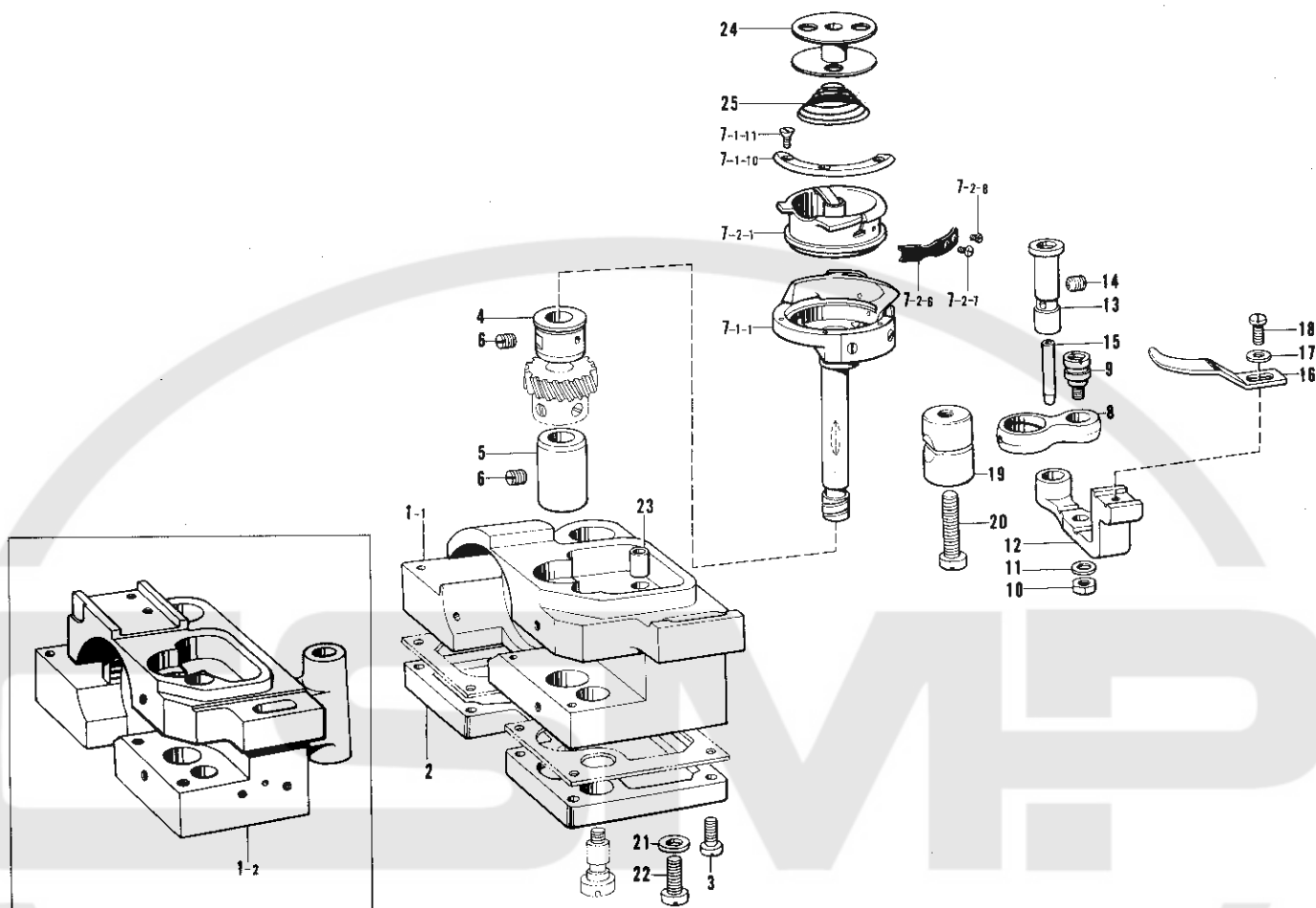
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
1-1	Feed Regulator Shaft	1		G-1	22-1	Feed Regulator Bracket (for Standard)	1	118747-001	
1-2	Guide Plate	2	143594-001	Feed Regulator Shaft Assembly 148771-001	22-2	Feed Regulator Bracket (for Thread Trimmer)	1	158748-001	
1-3	Screw 437-40 x 10	4	062681-012		23	Screw 5.95	1	118853-001	
1-4	Slide Block	1	145328-001		24	Feed Regulator Lever Shaft (for Standard)	1	151080-001	
2	Stop Ring	1	143597-001	G-3 Collar Assembly 180321-001	25	Reverse Lever (for Thread Trimmer)	1	118752-003	
3-1	Collar	1			26	Screw 6.35 x 10 (for Standard)	1	015771-012	
3-2	Screw 6.35	2	101706-001		27-1	Link (B)	1		G-27 Link Assembly (for Standard) 143608-001
4	Length Control Screw	1	109151-101		27-2	Spring Hook	1		
5	Length Control Dial	1	153168-001		28	Screw 5.95 x 6 (for Standard)	1	014760-622	
6	Dial Plate	1	153231-001		29	Spring	1	143609-001	
7	Screw 4.76	1	142747-002		30	Spring Hook Plate	1	143610-001	
8	Length Control Supporter	1	142746-002		31	Screw 476-32 x 8	1	062710-812	
9	Pin	1	145502-001		32-1-1	Lever Feed Connecting Rod	1		G-32-1 Lever Feed Connecting Rod Assembly (for Standard) 150926-001
10	Notch Spring	1	100328-001		32-1-2	Needle Bearing	1	118954-000	
11-1	Feed Regulator (for Standard)	1	148489-001		32-1-3	Level Feed Connecting Link	1	143613-001	
11-2	Feed Regulator (for Thread Trimmer)	1	158747-001		32-2-1	Lever Feed Connecting Rod	1		G-32-2 Lever Feed Connecting Rod Assembly (for Thread Trimmer) 156360-001
12	Feed Regulator Stud	1	148488-001		32-2-2	Needle Bearing	1	118954-000	
13	Stop Ring E7	1	048070-342		32-2-3	Level Feed Connecting Link	1	143613-001	
14	Screw 5.95	1	013761-410		33-1	Eccentric Wheel	1		G-33 Eccentric Wheel with Screw 150928-001
15	Pin (for Standard)	2	118713-001		33-2	Screw 5.95	2	151605-001	
16	Pin (for Thread Trimmer)	2	148501-101		34	Stud	1	143616-001	
17	Feed Regulator Connecting Link (for Standard)	1	148487-001		35	Stop Ring E6	2	048060-342	
	Feed Regulator Connecting Link (for Thread Trimmer)	1	155448-001		36	Lever Feed Arm	1	150930-001	
18	Feed Regulator Arm (for Standard)	1	150925-001		37	Screw 6.35 x 18	1	S01304-001	
	Feed Regulator Arm (for Thread Trimmer)	1	155449-001		38	Reverse Lever Stopper	1	118865-001	
19	Screw 5.95	1	118853-001		39	Screw 437-40 x 7	1	062680-712	
20	Connecting Plate (for Standard)	1	118746-001		40	Washer	1	100645-003	
21	Stud Screw 4.37 (for Standard)	2	112072-001		41	Link Shaft (for Thread Trimmer)	1	156956-001	
					42	Screw 4.37 (for Thread Trimmer)	1	151602-001	

L. Lower shaft mechanism / Untere
M canisme de l'arbre inf rieur / M canismo de la eje inferior



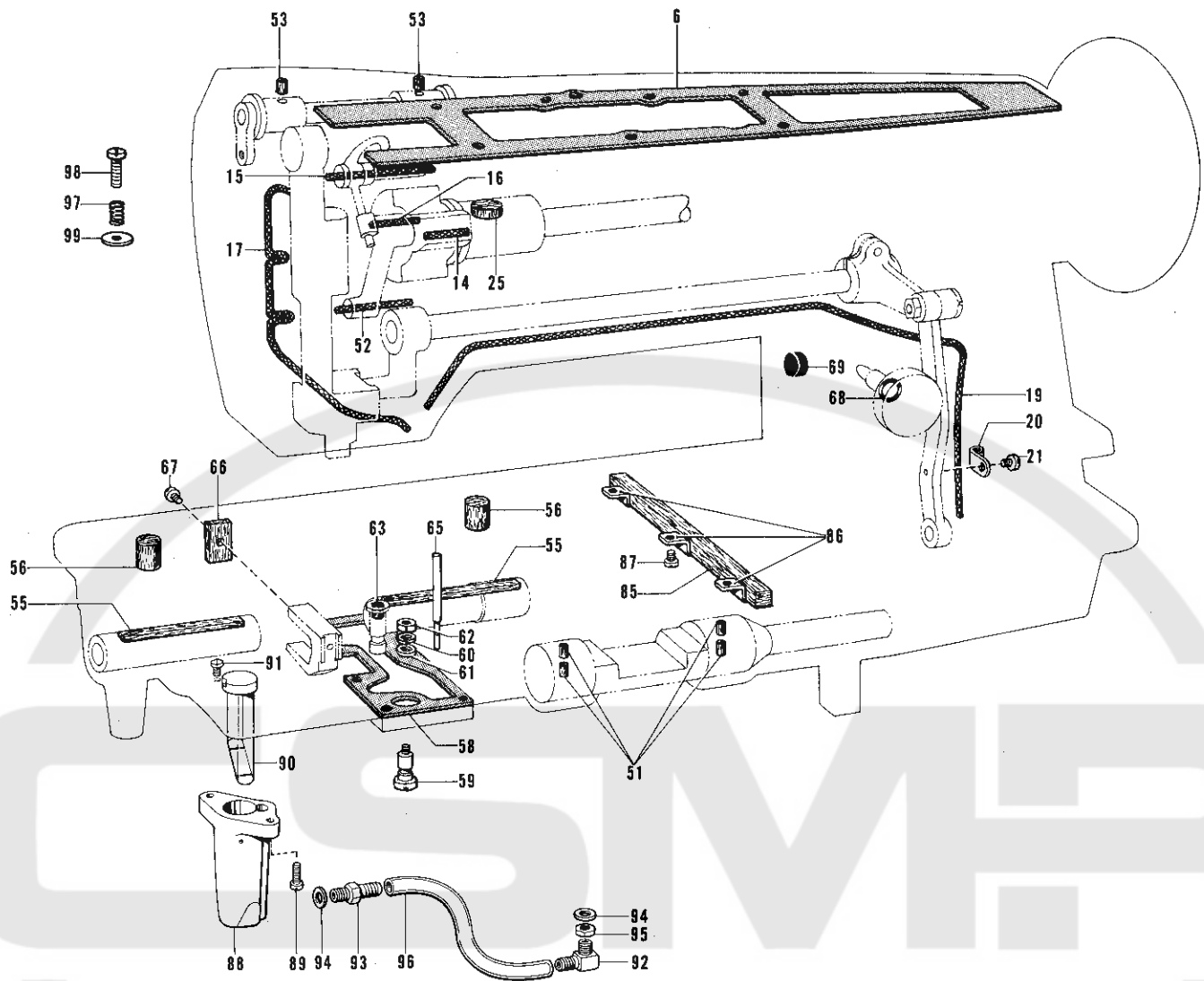
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
1	Lower Shaft (for Standard)	1	150972-101		16	Screw 6.35 (for Thread Trimmer)	1	112684-001	
	Lower Shaft (for Thread Trimmer)	1	S01027-001		17	Screw 6.35 (for Standard)	1	015771-212	
2	Rotary Hook Base Bushing (Left)	1	148503-000			Screw 6.35 x 12 (for Thread Trimmer)	1	100251-001	
3	Rotary Hook Base Bushing (Right)	1	148502-000		18- 1	Timing Belt Pulley (Lower)	1		
4	Screw 5.95	2	151605-001		18- 2	Rock Lever	1	150980-001	
5- 1	Ball Bearing	1		L-5 Lower Shaft Bearing Assembly 150975-001	18- 3	Lever Stud	1	150981-001	
5- 2	Bearing Bushing	1	150976-001		18- 4	Screw 4.37	1	151603-001	
6	Screw 6.35 x 12	1	013771-212		18- 5	Lever Spring	1	150982-001	
7	Presser	1	112668-001		18- 6	Stud	1	150983-001	
8	Screw 3.57 x 12	3	005671-212		18- 7	Screw 4.37	1	013680-512	
9- 1	Vertical Feed Eccentric Wheel	1		L-9 Vertical Feed Eccentric Assembly 181486-001	18- 8	Link	1	150984-001	
9- 2	Screw 6.35	1	112684-001		18- 9	Ratchet	1	150985-001	
10- 1	Spiral Gear	1		L-10 Spiral Gear Assembly 180949-001	18-10	Pin	1	114909-000	
10- 2	Pinion Gear	1	112689-001		18-11	Ratchet Spring	1	150986-001	
11	Screw 6.35	1	112684-001		18-12	Collar (for Standard)	1	150987-001	
12	Screw 6.35	2	100251-001			Collar (for Thread Trimmer)	1	156383-001	
13	Screw 6.35	1	112684-001		18-13	Side Ring	1		
14	Screw 6.35	2	101706-001			Screw 6.35 x 12 (for Standard)	1	013771-212	
15	Rock Ratchet (for Standard)	1	150977-001		19	Screw 6.35 x 12 (for Thread Trimmer)	2	013771-212	
	Rock Ratchet (for Thread Trimmer)	1	156385-001		20	Screw 6.35	1	148821-001	
16	Screw 6.35 x 12 (for Standard)	1	013771-212		21	Screw 6.35 (for Standard)	1	015771-212	
						Screw 6.35 x 12 (for Thread Trimmer)	1	148821-001	

K. Rotary hook mechanism / Greifervorrichtung
Mécanisme du crochet rotatif / Mécanismo del cangrejo



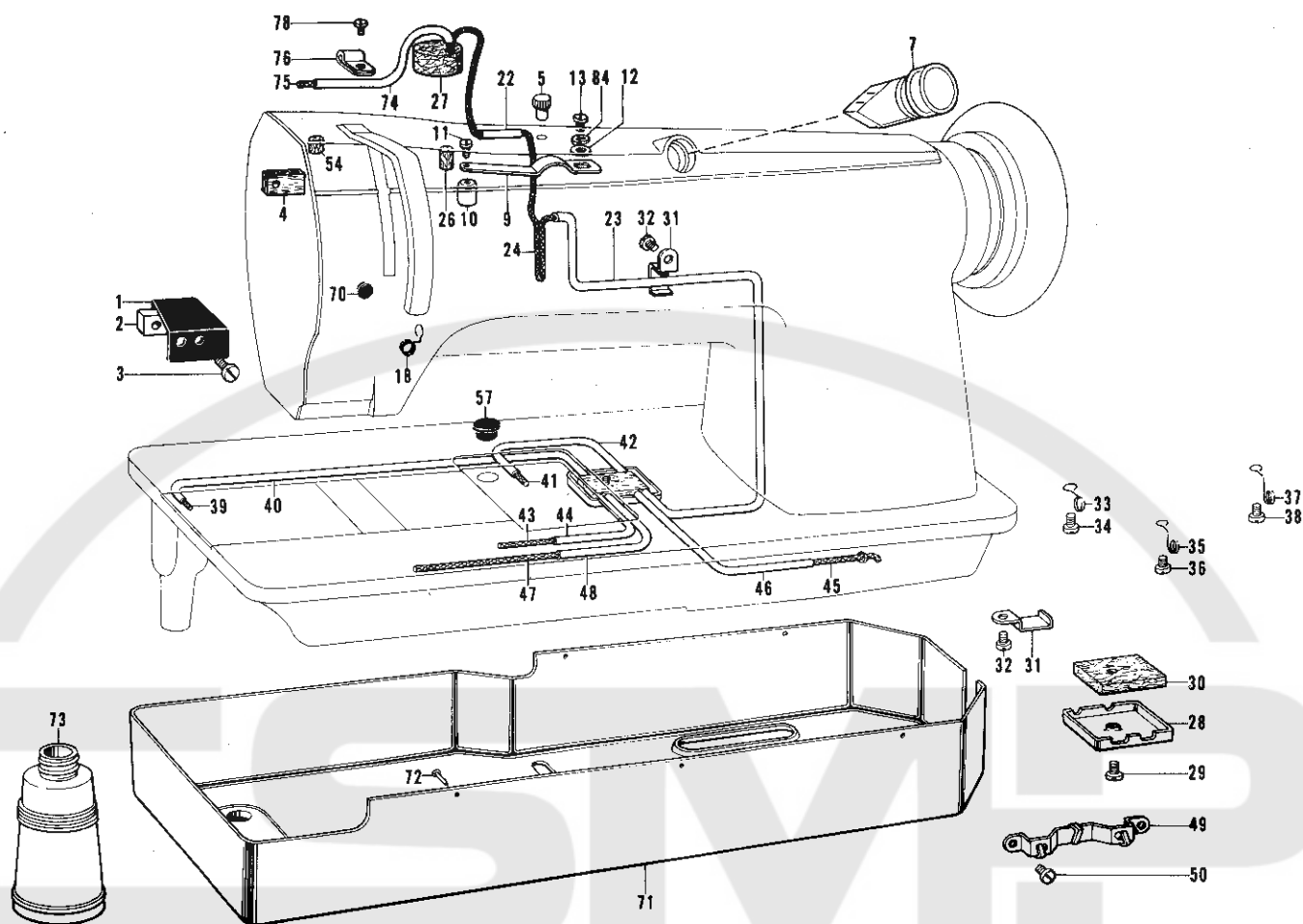
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
1-1	Rotary Hook Base (Right)(for Standard)	1	150963-001		8	Opener Link	1	150967-001	
1-2	Rotary Hook Base (Right)(for Thread Trimmer)	1	156377-001		9	Stud	1	148005-001	
2	Rotary Hook Base Oil Reservoir (Right)(for Standard)	1	112702-001		10	Nut 4.76	1	110161-006	
	Rotary Hook Base Oil Reservoir (Right)(for Thread Trimmer)	1	156378-001		11	Washer 4.76	1	025710-232	
3	Screw 4.76	8	100320-002		12	Opener Crank	1	150968-001	
4	Rotary Hook Shaft Bushing (Upper)	1	150964-101		13	Opener Crank Stud	1	150969-001	
5	Rotary Hook Shaft Bushing (Lower)	1	150965-001		14	Screw 4.76	1	153483-001	
6	Screw 4.76	2	107794-001		15	Pipe	1	112696-000	
7-1- 1	Outer Rotary Hook	1		K-7-1 Outer Rotary Hook Assembly (for Standard) 159944-001 (for Thread Trimmer) S01025-001	16	Bobbin Case Opener	1	150970-001	
7-1-10	Inner Rotary Hook Presser	1			17	Washer	1	105161-002	
7-1-11	Screw	3	151027-001	K-7 Rotary Hook Assembly (for Standard) 150966-001 (for Thread Trimmer) S01023-001	18	Screw 357-40 x 8	1	062670-812	
7-2- 1	Inner Rotary Hook	1			19	Pinch Sleeve	1	112699-001	
7-2- 6	Tension Adjusting Spring	1	151495-001	K-7-2 Inner Rotary Hook Assembly (for Standard) 151491-001 (for Thread Trimmer) 156473-001	20	Screw 5.95	1	112700-001	
7-2- 7	Tension Adjusting Screw	1	151029-001		21	Washer	1	100197-002	
7-2- 8	Screw	1	151030-001		22	Screw 6.35 Screw	1	105351-002	
					23	Oil Pipe (for Standard)	1	115287-000	
					24	Bobbin (for Standard)	1	150971-001	
						Bobbin (for Thread Trimmer)	1	156380-001	
					25	Bobbin Tension Spring (for Thread Trimmer)	1	156463-001	

M. Lubrication (2) / Schmierung (2)
Lubrification (2) / Lubricación (2)



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
6	Packing	1	150989-000		65	Oil Gauge (for Standard)	1	151006-001	
14	Wick 6 x 6 (12 cm)	1	112735-000		66	Felt	1	112759-001	
15	Wick 6 x 6 (10 cm)	1	150995-000		67	Screw 3.57	1	100242-003	
16	Wick 3 x 3 (3 cm)	1	114693-001		68	Packing	1	108549-001	
17	Wick 4 x 4 (44 cm)	1	150996-000		69	Oil Cap	1	143766-001	
19	Wick 4 x 4 (85 cm)	1	112736-000		85	Felt (for Thread Trimmer)	1	156386-000	
20	Wick Supporter	2	112739-001		86	Felt Presser (for Thread Trimmer)	3	155487-001	
21	Screw 357-40 x 5	2	062670-512		87	Screw 357-40 x 5 (for Thread Trimmer)	3	062670-512	
25	Felt	1	112734-001		88	Oil Gauge (for Thread Trimmer)	1	156387-001	
51	Felt	4	148743-001		89	Screw 476-32 x 16 (for Thread Trimmer)	2	062711-612	
52	Wick 4 x 4 (5 cm)	1	112728-001		90	Oil Gauge Window (for Thread Trimmer)	1	156388-000	
53	Felt	2	107155-001		91	Screw 3.57 (for Thread Trimmer)	1	112751-003	
55	Felt	2	113362-001		92	Oil Joint (1) (for Thread Trimmer)	1	156389-001	
56	Felt	2	112753-001		93	Oil Joint (2) (for Thread Trimmer)	1	156390-001	
58	Packing	1	112755-000		94	Packing (for Thread Trimmer)	2	156391-000	
59	Oil Adjusting Screw	1	112756-001		95	Nut 7.94 (for Thread Trimmer)	1	106147-002	
60	Washer 2-4.37	1	028680-242		96	Oil Tube (for Thread Trimmer)	1	156392-000	
61	Washer	1	100645-003		97	Spring	1	155485-001	
62	Nut 4.37	1	105234-003		98	Screw 476-32 x 16	1	062711-612	
63	Felt	1	107155-001		99	Washer	1	116662-003	

M. Lubrication (1) / Schmierung (1)
Lubrification (1) / Lubricación (1)



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Parts No.	Assembly No.
1	Oil Stopper Plate	1	150988-001		38	Screw 357-40 x 5 (for Standard)	1	062670-512
2	Oil Stopper Plate Presser	1	112717-001			Screw 357-40 x 5 (for Thread Trimmer)	2	062670-512
3	Screw 476-32 x 10	1	062711-212		39	Wick 4 x 4 (36 cm) (for Standard)	1	150999-000
4	Felt	1	148762-001			Wick 4 x 4 (36 cm) (for Thread Trimmer)	1	143660-000
5	Cap for Oil Inlet	1	113526-001		40	Oil Tube (for Standard)	1	151000-100
7	Oil Gauge Window	1	150990-001			Oil Tube (for Thread Trimmer)	1	143661-000
9	Spring	1	150993-101		41	Wick 4 x 4 (16 cm)	1	151001-000
10	Oil Pendulum	1	150994-000		42	Oil Tube	1	148733-001
11	Screw 357-40 x 6	1	062670-612		43	Wick 4 x 4 (34 cm)	1	151002-000
12	Washer 4.37	1	025680-232		44	Oil Tube	1	143671-000
13	Screw 437-40 x 6	1	062680-612		45	Wick 4 x 4 (31 cm)	1	151003-000
18	Tube Holder	1	112744-001		46	Oil Tube (for Standard)	1	151004-000
22	Oil Tube	1	150997-000			Oil Tube (for Thread Trimmer)	1	143669-000
23	Oil Tube	1	150998-000		47	Wick 4 x 4 (61 cm)	1	151005-000
24	Wick 4 x 4 (84 cm)	1	148731-000		48	Oil Tube (for Standard)	1	148733-001
26	Felt	1	112754-001			Oil Tube (for Thread Trimmer)	1	143671-000
27	Felt (A)	1	141742-001		49	Wick Support	1	143673-001
28	Bed Oil Tube Holder (for Standard)	1	148729-001		50	Screw 318-40 x 4	2	062660-412
29	Screw 476-32 x 10 (for Standard)	1	062711-012		54	Felt	1	107155-001
30	Felt (for Standard)	1	148732-001		57	Oil Cap	1	112758-001
31	Felt Presser (for Standard)	2	114297-001		70	Oil Cap	1	104450-001
32	Screw 357-40 x 5 (for Standard)	2	062670-512		71	Oil Pan	1	151007-101
33	Tube Holder (for Standard)	3	112743-001		72	Nail	5	109714-000
	Tube Holder (for Thread Trimmer)	2	112743-001		73	Oiler	1	114486-002
34	Screw 357-40 x 5 (for Standard)	3	062670-512		74	Oil Tube	1	143671-000
	Screw 357-40 x 5 (for Thread Trimmer)	2	062670-512		75	Wick 4 x 4 (32 cm)	1	151097-000
35	Tube Stopper (for Standard)	3	112744-001		76	Tube Holder	1	112743-001
36	Screw 357-40 x 5 (for Standard)	3	062670-512		78	Screw 357-40 x 5	1	062670-512
37	Wick Holder (for Standard)	1	112745-001		84	Washer 2-4.37	1	028680-242
	Wick Holder (for Thread Trimmer)	2	112745-001					

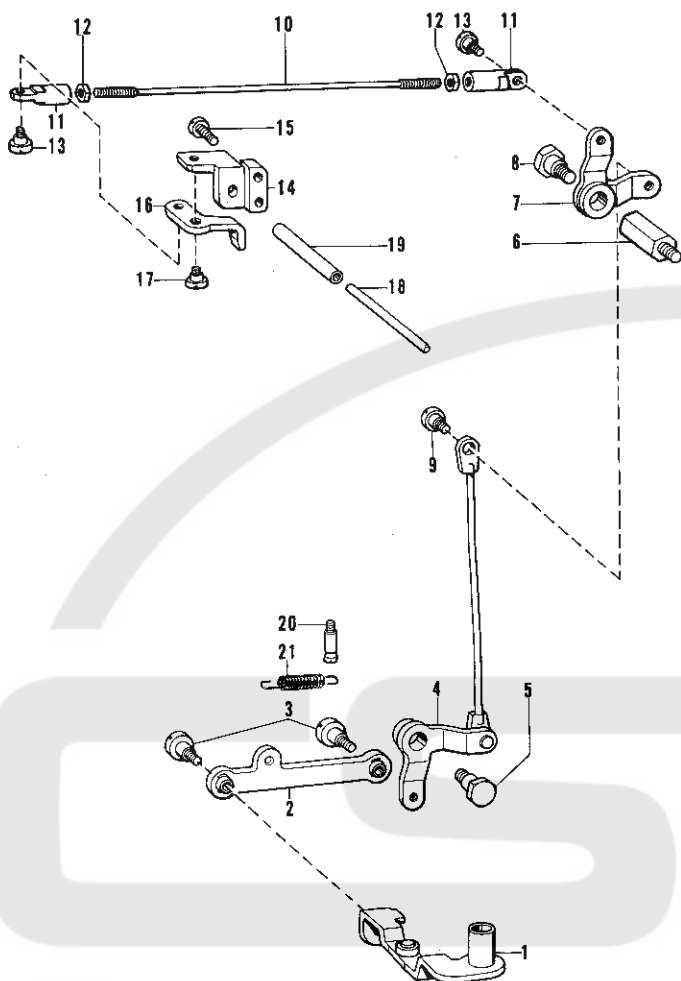
P.

Tension release mechanism (— 300)

Spannung sverminderung svorrichtung (— 300)

Mécanisme de interrupteur de marche arrière rapide (— 300)

Mécanismo de liberador de tensión (— 300)



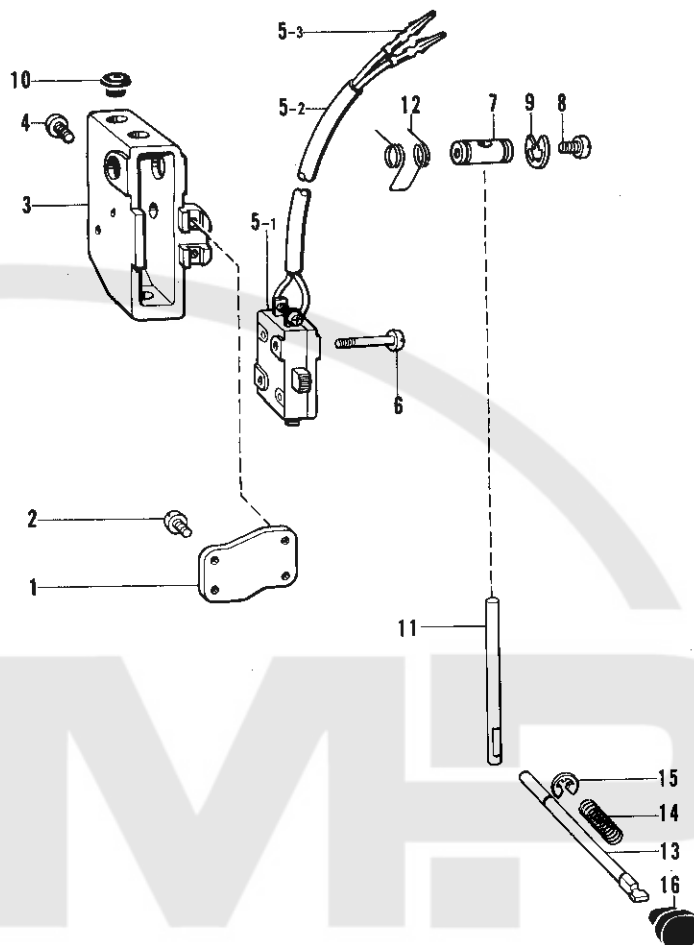
Q.

Quick reverse switch mechanism (— 300)

Umkehrschalter (— 300)

Mécanisme de interrupteur de marche arrière rapide (— 300)

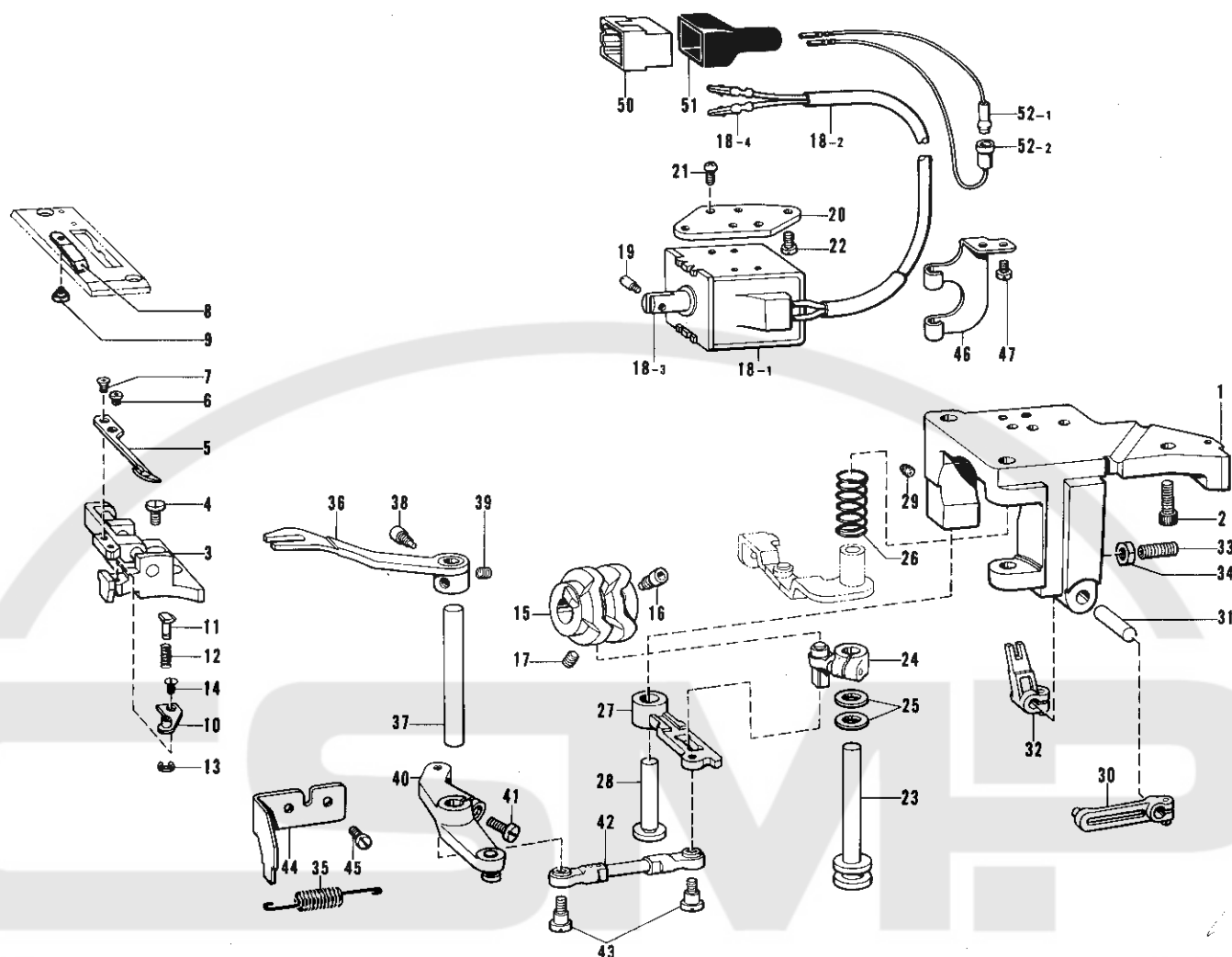
Mécanismo de commutador de inversión rápida (— 300)



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
1	Tension Release Rock Lever Assembly	1	148619-001	
2	Tension Release Connecting Rod (Lower) Assembly	1	148623-001	
3	Stud Screw 4.37	2	123882-001	
4	Tension Release Crank (Lower)	1	148625-001	
5	Stud Screw 6.35	1	148628-001	
6	Stud	1	148629-001	
7	Tension Release Crank	1	156409-001	
8	Stud Screw 6.35	1	148628-001	
9	Stud Screw 4.76	1	110171-001	
10	Tension Release Rod (Upper)	1	156412-001	
11	Joint	2	148632-001	
12	Nut 3.57	2	021670-102	
13	Screw	2	148768-001	
14	Tension Release Base	1	156410-001	
15	Screw 437-40 x 14	2	062681-412	
16	Tension Release Plate	1	156411-001	
17	Stud Screw 3.57	1	148633-001	
18	Tension Release Shaft	1	156413-001	
19	Pipe	1	112714-000	
20	Spring Hook	1	115177-001	
21	Spring	1	148654-001	

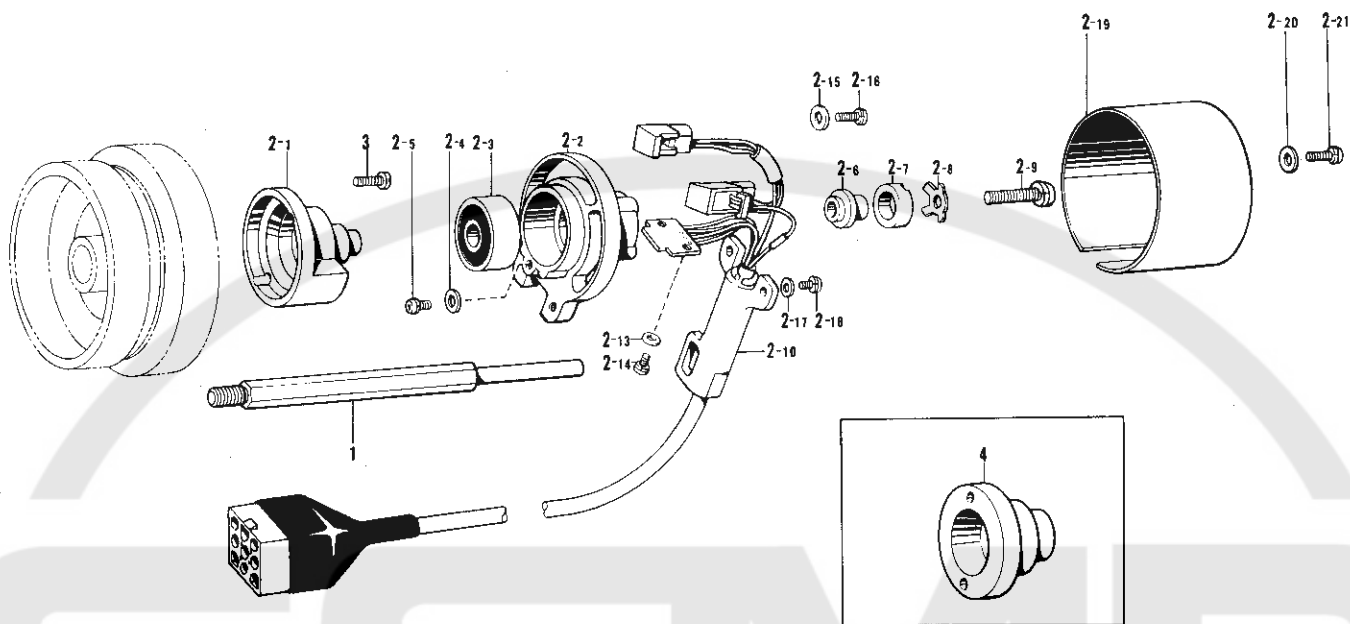
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
1	Micro Switch Base	1	156415-001	
2	Screw	2	062680-812	
3	Reverse Switch Case	1	146120-002	
4	Screw 357-40 x 8	2	062670-812	
5-1	Micro Switch	1	Q-5 Reverse Switch Assembly (for BROTHER Motor) 159896-000 (for EFKA Motor) 156548-001	
5-2	Reverse Switch Cord	1		
5-3	Terminal Pin (for BROTHER Motor)	2		
6	Screw 2.38	2	146124-001	
7	Actuator Pin	1	146125-001	
8	Screw 437-40 x 14	1	062681-412	
9	Stop Ring E8	2	048080-342	
10	Bushing	1	146080-000	
11	Actuator Bar	1	156418-001	
12	Spring	1	156419-001	
13	Actuator Bar	1	156416-001	
14	Spring	1	156417-001	
15	Stop Ring E4	1	048040-342	
16	Button	1	156479-000	

N. Thread trimmer mechanism (— 300) / Fadenabschneidevorrichtung (— 300)
Mécanisme de coupe-fill (— 300) / Mecanismo de recortadora de orillos (— 300)



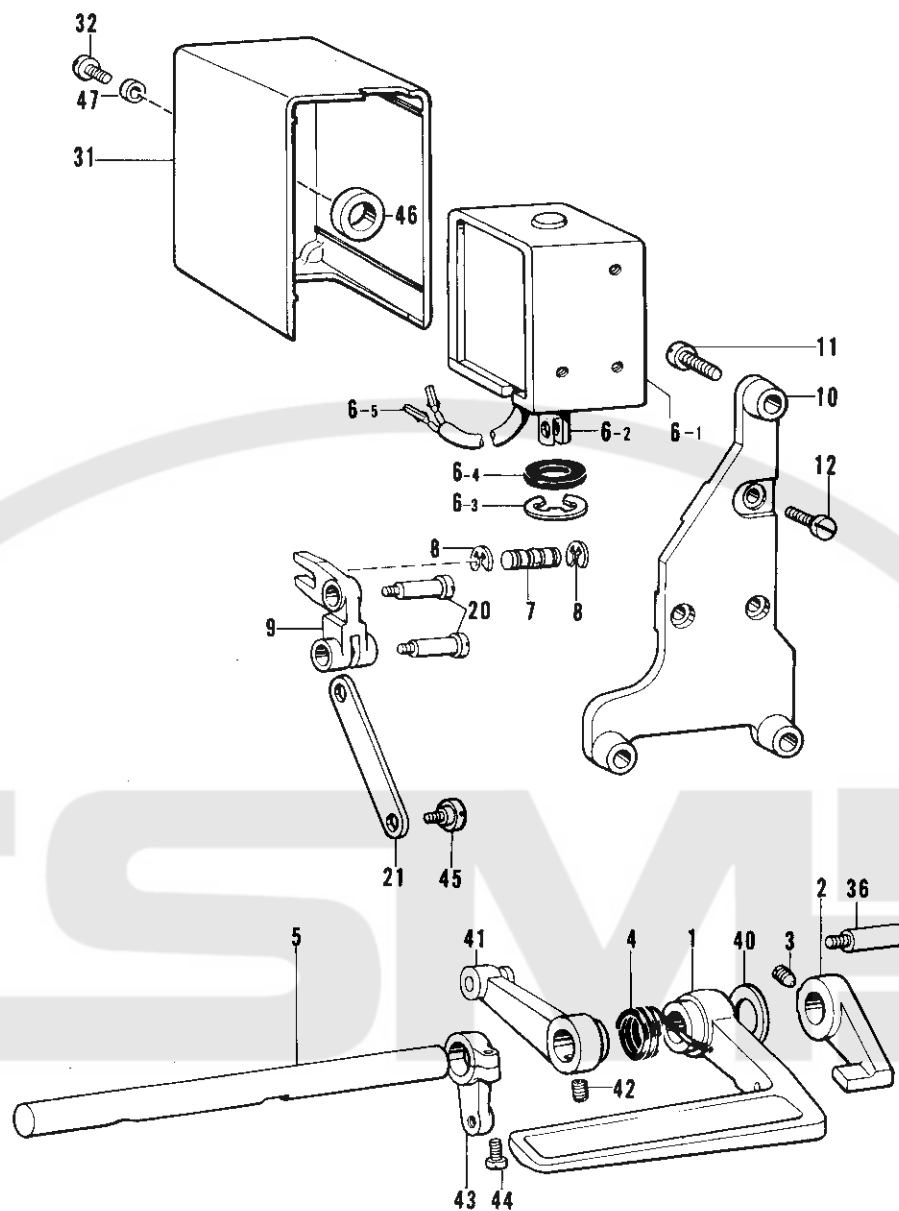
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Parts No.	Q'ty	Parts No.	Assembly No.
1	Movable Knife Base Bracket	1	148482-101		25	Rubber	2	148559-000	
2	Bolt 6 x 16	3	018061-622		26	Spring	1	148555-001	
3	Movable Knife Base Assembly	1	S01028-001		27	Knife Sub Lever	1	158814-001	
4	Screw 476-32 x 8	2	062710-812		28	Knife Sub Lever Shaft	1	148554-001	
5	Movable Knife	1	159365-001		29	Screw 5.95	1	100289-003	
6	Screw 4.37	1	148536-001		30	Pin Lever	1	181712-001	
7	Screw 4.37	1	148537-001		31	Shaft 6.35 x 27	1	148557-001	
8	Fixed Knife (Right)	1	149169-001		32	Plunger Lever	1	181713-001	
9	Stud Screw 2.38	1	148539-001		33	Screw 7.14	1	011802-012	
10	Thread Presser Plate	1	156403-001		34	Nut 7.14	1	100078-003	
11	Thread Presser	1	156404-001		35	Spring	1	148571-001	
12	Thread Presser Spring	1	156405-101		36	Knife Rock Arm	1	S01036-001	
13	Stop Ring E1.5	1	048015-346		37	Knife Rock Arm Shaft	1	148573-001	
14	Screw 3.18	1	141542-001		38	Screw 6.35	1	148574-001	
15	Knife Driving Cam	1	S01032-001		39	Screw 6.35 x 6	1	014770-622	
16	Screw 6.35	1	148574-001		40	Knife Rock Lever (Right) Assembly	1	S01033-001	
17	Screw 6.35 x 6	1	014770-622		41	Screw 476-32 x 14	1	062711-412	
18-1	Thread Trimmer Solenoid	1		N-18 Thread Trimmer Solenoid Assembly (for BROTHER Motor) 159900-001 (for EPKA Motor) 156550-001	42	Joint Assembly	1	156406-001	
18-2	Solenoid Cord	1			43	Screw	2	141494-001	
18-3	Plunger	1	148545-001		44	Spring Hook (Right)	1	156408-001	
18-4	Terminal Pin (for BROTHER Motor)	2	143549-000		45	Screw 476-32 x 10	2	062711-012	
19	Pin	1	148546-001		46	Cord Supporter	1	148655-001	
20	Solenoid Bracket	1	148561-101		47	Screw 476-32 x 18	2	062710-812	
21	Screw 4 x 8	4	002400-803		50	Nylon Connector 12P	1	153969-000	
22	Screw 476-32 x 10	2	062711-012		51	Connector Cap 5	1	153971-001	
23	Knife Main Lever Shaft	1	148547-001		52-1	Cord (R)	1	S00897-000	N-52 Cord Assembly (for BROTHER Motor) S00896-000
24	Knife Main Lever	1	148548-001		52-2	Cord (P)	1	S00899-000	

S. Synchronizer (— 300) / Synchronisator (— 300)
Synchronisateur (— 300) / Sincronizador (— 300)



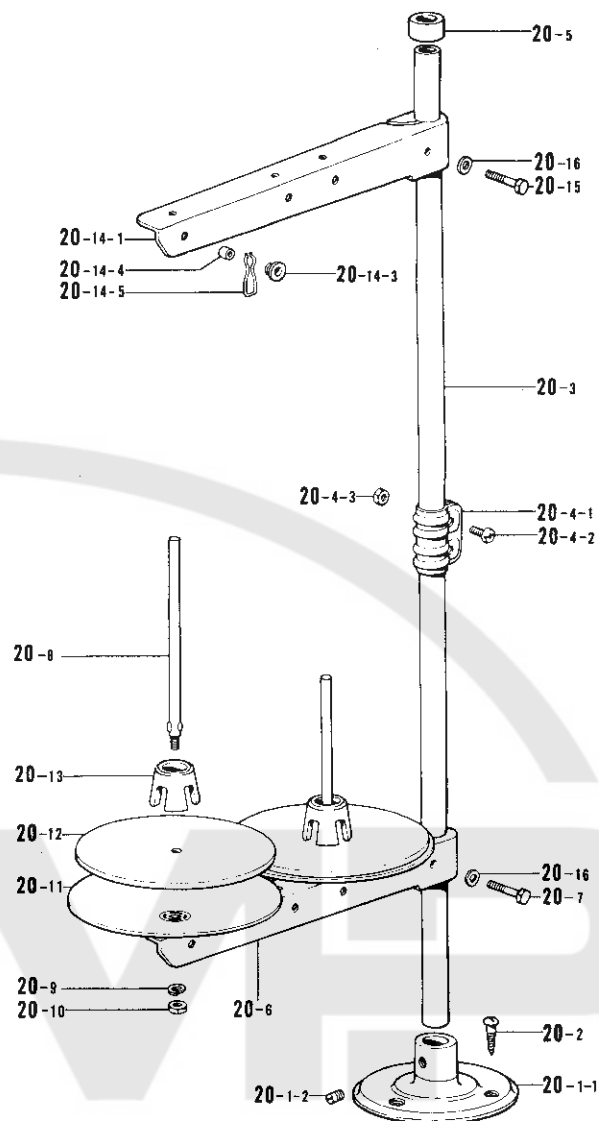
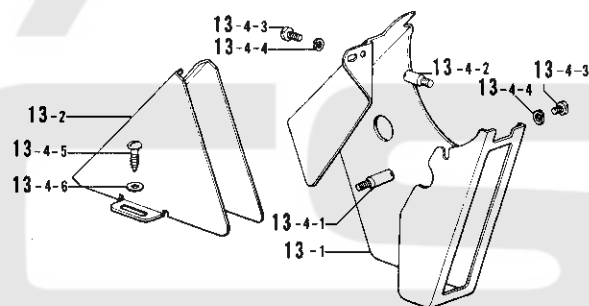
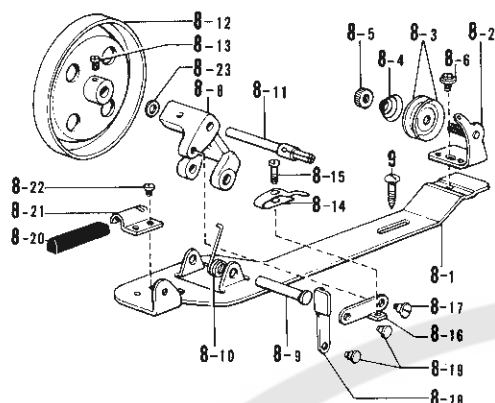
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
1	Synchronizer Holder Stud		156414-001		2-13	Washer 3	2	025030-135	
2- 1	Magnet Stud #3				2-14	Screw 3 x 6D	2	215083-001	
2- 2	Synchronizer Holder #3				2-15	Washer 4	2	025040-335	S-2
2- 3	Ball Bearing 6201				2-16	Screw 4 x 12D	2	217093-001	Synchronizer
2- 4	Washer 3		025030-335		2-17	Washer 4	2	025040-135	Assembly
2- 5	Screw 3 x 6D		215083-001		2-18	Screw 4 x 12D	2	217093-001	# 10-2
2- 6	Magnet Setting Bracket		219557-000		2-19	Synchronizer Cover #4	1	224349-001	224357-001
2- 7	Magnet 12 x 18.7 x 6		219558-000		2-20	Washer 4	2	025040-335	
2- 8	Magnet Holder Plate		219559-001		2-21	Screw 4 x 12D	2	217093-001	
2- 9	Screw 6 x 25D		221421-001		3	Screw 476-32 x 14	2	062711-412	
2-10	Hole I.C with Cord #7				4	Slip Ring Support (for EFKA Motor)	1	148825-001	

R. Quick reverse mechanism (– 300) / Umkehr
Mécánisme de marche arrière rapide (– 300) / Mécánisme de inversión rápida (– 300)



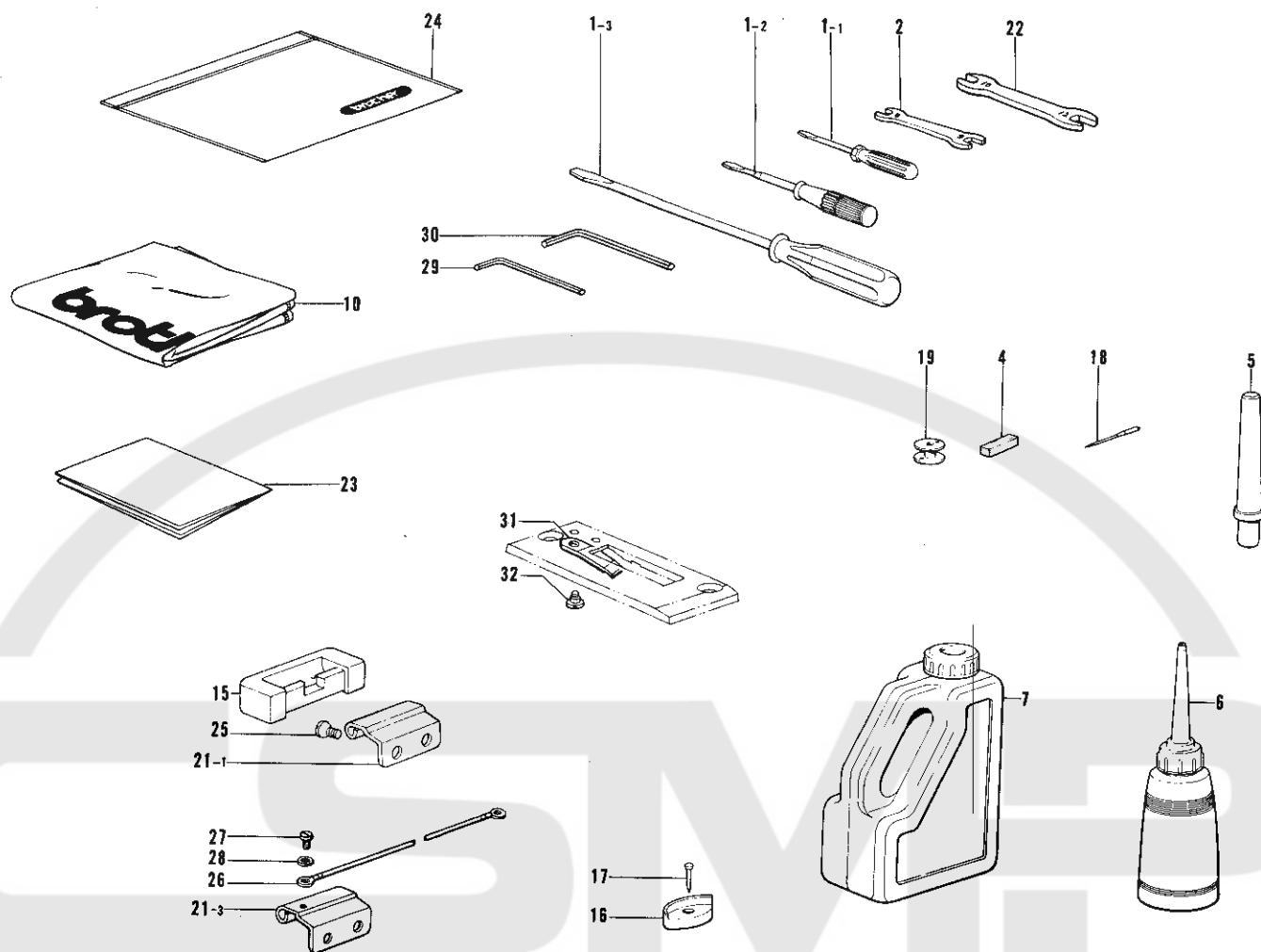
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
1	Reverse Lever	1	156362-001		12	Screw 5 x 8	3	007500-802	
2	Reverse Lever (B)	1	148607-002		20	Stud Screw 4.76	2	148764-001	
3	Screw 6.35 x 10	1	015771-012		21	Reverse Link	1	149063-001	
4	Spring	1	148608-001		31	Solenoid Cover	1	146105-000	
5	Reverse Lever Shaft	1	159429-001		32	Screw 5 x 6	1	007500-602	
6-1	Solenoid	1		R-6 Reverse Solenoid Assembly (for BROTHER Motor) 159902-001 (for EFKA Motor) 154734-001	36	Screw	1	141748-001	
6-2	Plunger	1	154729-001		40	Thrust Ring	1	149554-001	
6-3	Stop Ring E15	1	154730-001		41	Feed Regulator Link	1	148638-001	
6-4	Rubber Stopper	1	154731-000		42	Screw 5.95 x 6	1	014760-622	
6-5	Terminal Pin (for BROTHER Motor)	2	143549-000		43	Reverse Lever Shaft Arm	1	148640-001	
7	Pin	1	149174-001		44	Screw 476-32 x 14	1	062711-412	
8	Stop Ping E4	2	048040-342		45	Stud Screw 4.76	1	110171-001	
9	Reverse Crank	1	158753-001		46	Solenoid Rubber	1	S01327-001	
10	Reverse Solenoid Bracket	1	158752-001		47	Collar	1	S01328-001	
11	Screw 635-28 x 25	3	062782-512						

Z. Accessories (2) / Zubehör (2)
Accessoires (2) / Accesorios (2)



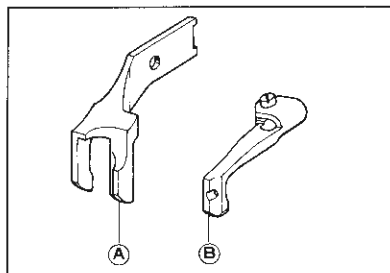
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
8- 1	Bobbin Winder Wheel Bracket	1		Z-8 Bobbin Winder Assembly 117963-001	13- 4-3	Screw 437-40 x 8	2	062680-812	Z-13
8- 2	Bobbin Winder Guide Assembly	1			13- 4-4	Washer 2-4.37	2	028680-242	Belt Cover
8- 3	Tension Disc	2	145446-001		13- 4-5	Screw 5.5 x 20	2	100666-002	Complete (D)
8- 4	Tension Spring	1	100401-001		13- 4-6	Washer 5.56	2	025750-132	147908-001
8- 5	Tension Control Nut	1	100136-002		20- 1-1	Cotton Stand Base	1		Z-20-1 Cotton Stand Base Assembly 150139-001
8- 6	Screw 4.37	1			20- 1-2	Screw 6 x 7	2	150181-101	
8- 8	Bobbin Winder Wheel Shaft Supporter	1			20- 2	Screw 4.5 x 22	3	031452-203	
8- 9	Pin	1			20- 3	Pipe	2	150172-001	
8-10	Spring	1	117969-001		20- 4-1	Joint	1		Z-20-4 Joint for Cotton Stand 150106-001
8-11	Bobbin Winder Shaft	1	117970-001		20- 4-2	Screw 5 x 14	1	150202-001	
8-12	Bobbin Winder Wheel Assembly	1			20- 4-3	Nut 5	1	021500-103	
8-13	Screw 4.37 x 5	1	100366-002		20- 5	Cap	1		
8-14	Bobbin Presser	1	100656-001		20- 6	Spool Holder 2	1	150178-001	
8-15	Screw 3.18	1	100657-001		20- 7	Bolt 5 x 28	1	017502-803	
8-16	Bobbin Presser Arm	1			20- 8	Spool Shaft (B)	2	150179-001	
8-17	Stud Screw 3.18	1	100659-001		20- 9	Washer 2-5	2	028050-243	
8-18	Bobbin Presser Bracket	1			20-10	Nut 5	2	021500-103	
8-19	Pin	2			20-11	Spool Stand Base	2	150180-000	
8-20	Bobbin Winder Wheel Stopper	1	100662-001		20-12	Spool Mat	2	150182-000	
8-21	Bobbin Winder Wheel Stopper	1			20-13	Spool Cushion	2	126863-000	
8-22	Screw 3.57 x 3.5	1	S01297-001		20-14-1	Spool Holder 2	1	150178-001	
8-23	Washer	2			20-14-3	Thread Hanger	2		Z-20-14 Thread Hanger Assembly 150192-003
9	Screw 5.5 x 20	2	100666-002		20-14-4	Thread Bushing	2	142990-001	
13- 1	Belt Cover (UD)	1		Z-13 Belt Cover Complete (D) 147908-001	20-14-5	Thread Guide Spring	2	150184-001	
13- 2	Belt Cover (D)	1			20-15	Bolt 5 x 28	1	017502-803	
13- 4-1	Belt Cover Stud (B)	1	147856-002		20-16	Washer 5	2	025050-233	
13- 4-2	Stud (D)	1	147858-001						

Z. Accessories (1) / Zubehör (1)
 Accesorios (1) / Accesorios (1)



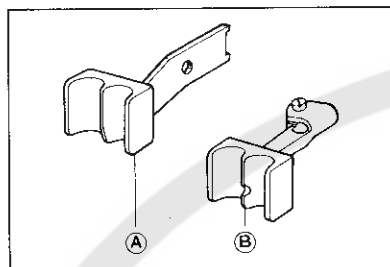
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
1-1	Screw Driver 1.9 x 52	1	142443-001		19	Bobbin (for Thread Trimmer)	5	156380-001	
1-2	Screw Driver 3.4 x 70	1	118837-001		21-1	Head Hinge (for Standard)	2	148882-001	
1-3	Screw Driver 5.5 x 190	1	101572-101		21-3	Head Hinge (for Thread Trimmer)	1	148882-001	
2	Spanner 8 x 9	1	100887-001		21-3	Hinge (E) (for Thread Trimmer)	1	150557-001	
4	Felt	2	114941-001		22	Spanner 10 x 12	1	107780-001	
5	Head Rest (for Standard)	1	100477-001		23	Table Sheet	1	150381-001	
5	Head Rest (for Thread Trimmer)	1	149010-000		24	Vinyl Bag	1	122991-001	
6	Oiler	1	114483-002		25	Screw 6.35	4	112569-001	
7	Oil Tank	1	154702-001		26	Earth Wire (for Thread Trimmer)	1	145946-001	
10	Head Cover	1	144222-001		27	Screw 437-40 x 6 (for Thread Trimmer)	1	062680-616	
15	Rubber Hinge	2	143910-001		28	Washer 4.37 (for Thread Trimmer)	1	025680-133	
16	Head Cushion	4	148890-101		29	Spanner 2 (for Thread Trimmer)	1	142002-001	
17	Nail	8	109714-000		30	Spanner 3 (for Thread Trimmer)	1	142721-001	
18	Needle DP x 17 #23 (for Standard)	4	145646-023		31	Fixed Knife (Right) (for Thread Trimmer)	1	149169-001	
18	Needle DP x 17 #22 (for Thread Trimmer)	4	145646-022		32	Stud Screw 2.38 (for Thread Trimmer)	1	148539-001	
19	Bobbin (for Standard)	4	150971-001						

5) Curved welting feet



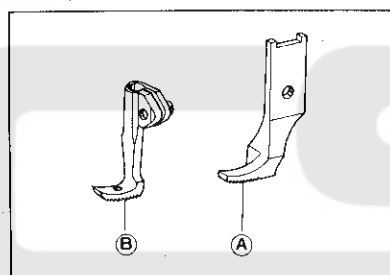
Size	Parts No.	
	Ⓐ Walking Foot	Ⓑ Presser Foot Assembly
3/16" (4.8mm)	151548-001	183022-001
1/4" (6.4mm)	151550-001	183023-001
5/16" (7.9mm)	151552-001	183024-001
3/8" (9.5mm)	151554-001	183025-001
1/2" (12.7mm)	151556-001	183026-001

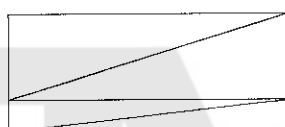
6) Double welting feet



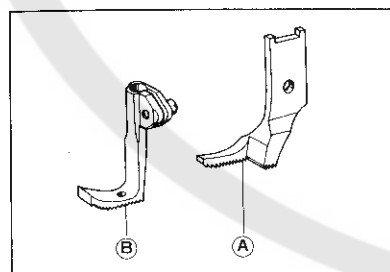
Size	Parts No.	
	Ⓐ Walking Foot	Ⓑ Presser Foot Assembly
3/16" (4.8mm)	151558-001	183027-001
1/4" (6.4mm)	151560-001	183028-001
3/8" (9.5mm)	151562-001	183029-001

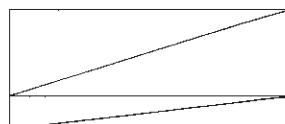
7) Feet with teeth, right



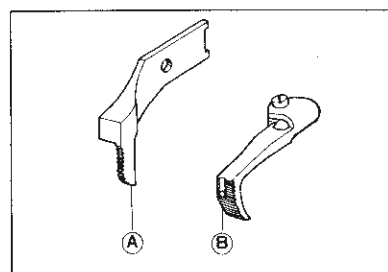
	Parts No.	
	Ⓐ Walking Foot	Ⓑ Presser Foot Assembly
	151564-001	183030-001

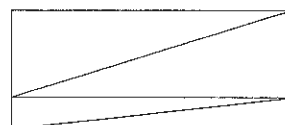
8) Feet with teeth, left



	Parts No.	
	Ⓐ Walking Foot	Ⓑ Presser Foot Assembly
	151566-001	183031-001

9) Narrow type feet for leather

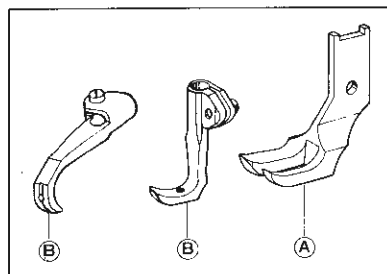


	Parts No.	
	Ⓐ Walking Foot	Ⓑ Presser Foot Assembly
	151568-001	183032-001

Gauge parts list / Lehenliste

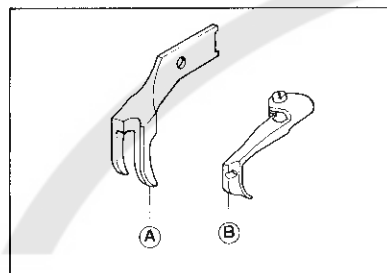
Liste des pièces d'écartement / Lista de piezas calibradoras

1) Standard feet



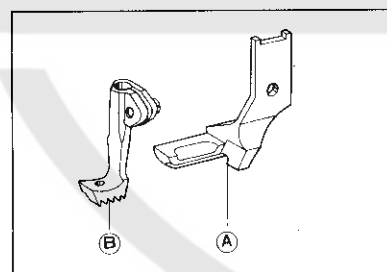
	Parts No.	
	Ⓐ Walking Foot	Ⓑ Presser Foot Assembly
Without Groove (for Standard)	150962-001	183007-001
With Groove (for Thread Trimmer)		183181-001

2) Welting feet



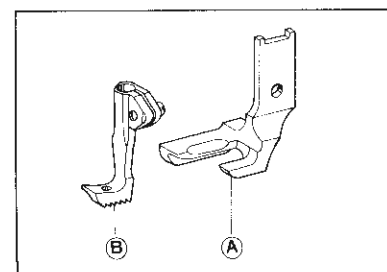
Size	Parts No.	
	Ⓐ Walking Foot	Ⓑ Presser Foot Assembly
1/8" (3.2mm)	151520-001	183008-001
5/32" (4.0mm)	151522-001	
3/16" (4.8mm)	151524-001	
1/4" (6.4mm)	151526-001	
5/16" (7.9mm)	151528-001	
3/8" (9.5mm)	151530-001	
1/2" (12.7mm)	151532-001	183014-001
5/8" (15.9mm)	151534-001	183015-001

3) Welting feet with teeth on presser foot



Size	Parts No.	
	Ⓐ Walking Foot	Ⓑ Presser Foot Assembly
3/16" (4.8mm)	151536-001	183016-001
1/4" (6.4mm)	151538-001	183017-001
5/16" (7.9mm)	151540-001	183018-001

4) Welting feet with teeth on presser foot



Size	Parts No.	
	Ⓐ Walking Foot	Ⓑ Presser Foot Assembly
3/16" (4.8mm)	151540-001	183019-001
1/4" (6.4mm)	151544-001	183020-001
5/16" (7.9mm)	151546-001	183021-001

Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark
114693-001	M-16		144458-001	D-26		148669-001	B - 4- 1- 5		150912-000	D-13	
114909-000	F-30			D-28		148670-001	B - 4- 2-11		150913-001	D-15	
	L -18-10		144504-001	B -21		148708-101	H - 9- 2		150914-001	D-18	
114941-001	B -17		145094-001	F -25		148709-001	H - 9- 3		150915-001	D-20	
	Z - 4		145153-001	B - 4- 1- 6		148729-001	M-28		150916-001	D-21	
115177-001	P -20			B - 4- 2- 5		148731-000	M-24		150917-001	D-32	
115287-000	K -23		145328-001	G - 1- 4		148732-001	M-30		150918-001	F - 8	
116283-001	H - 4		145446-001	B - 4- 2- 3		148733-001	M-42		150919-001	F -10	
116662-003	M-99			Z - 8- 3			M-48		150920-001	F -11	
117963-001	Z - 8		145502-001	G - 9		148743-001	M-51		150921-001	F -13	
117969-001	Z - 8-10		145646-022	D-25		148762-001	M- 4		150922-001	F -16	
117970-001	Z - 8-11			Z -18		148764-001	R -20		150923-101	F -21	
118170-101	F -18		145646-023	D-25		148768-001	P -13		150924-001	F -27	
118319-001	B - 4- 1- 9			Z -18		148771-001	G- 1		150925-001	G -18	
	B - 4- 2- 8		145946-001	Z -26					150926-001	G -32- 1	
118320-001	B - 4- 1-15		146080-000	Q -10		148818-001	A -30		150928-001	G -33	
	B - 4- 2-14		146105-000	R -31		148821-001	L -20		150930-001	G -36	
118713-001	G -15		146120-002	Q - 3			L -21		150931-001	E - 1	
118746-001	G -20		146124-001	Q - 6		148825-001	S - 4		150933-000	E - 2	
118747-001	G -22- 1		146125-001	Q - 7		148882-001	Z -21- 1		150934-000	E - 2- 1	
118752-003	G -25		146141-001	C - 6		148890-101	Z -16		150935-001	E - 3	
118837-001	Z - 1- 2		146598-001	A - 7		148976-001	J - 5		150936-001	E - 4	
118853-001	G -19		147856-002	Z -13- 4- 1		148977-001	J - 9		150937-001	E - 5	
	G -23		147858-001	Z -13- 4- 2		149010-000	Z - 5		150938-001	E - 6	
118865-001	G -38		147908-001	Z -13		149063-001	R -21		150940-000	E -10	
118954-000	E - 2- 2		148005-001	K - 9		149169-001	N - 8		150941-000	E -11	
	G -32- 1- 2		148482-101	N - 1			Z -31		150942-001	E -12	
	G -32- 2- 2		148487-001	G -17		149174-001	R - 7		150943-001	E -13	
122991-001	Z -24		148488-001	G -12		149177-001	D -33		150944-001	E -15	
123882-001	P - 3		148489-001	G -11- 1		149288-002	A -27		150945-001	E -15- 1	
126863-000	Z -20-13		148493-001	J - 1		149554-001	R -40		150946-001	E -15- 2	
129984-002	A - 9		148494-001	J - 3		149991-001	F -26		150947-001	E -15- 3	
140527-001	B - 1		148501-101	G -15		150106-001	Z -20- 4		150948-001	E -15- 4	
140647-001	A -28		148502-000	L - 3		150139-001	Z -20- 1		150949-001	E -16	
141494-001	N -43		148503-000	L - 2		150150-003	Z -20		150950-001	E -17	
141542-001	N -14		148536-001	N - 6		150172-001	Z -20- 3		150951-001	E -18	
141742-001	M -27		148537-001	N - 7		150178-001	Z -20- 6		150952-001	E -19	
141748-001	R -36		148539-001	N - 9			Z -20-14- 1		150954-001	E -20	
141868-001	F -24			Z -32		150179-001	Z -20- 8		150955-001	E -22	
142002-001	Z -29		148545-001	N -18- 3		150180-000	Z -20-11		150956-001	E -25	
142443-001	Z - 1- 1		148546-001	N -19		150181-101	Z -20- 1- 2		150957-001	J - 8	
142721-001	Z -30		148547-001	N -23		150182-000	Z -20-12		150958-001	J -12	
142746-002	G - 8		148548-001	N -24		150184-001	Z -20-14- 5		150959-001	H - 1	
142747-002	G - 7		148554-001	N -28		150192-003	Z -20-14		150960-001	H - 3	
142990-001	Z -20-14- 4		148555-001	N -26		150202-001	Z -20- 4- 2		150962-001	H - 7	
143549-000	N -18- 4		148557-001	N -31		150381-001	Z -23		150963-001	K - 1- 1	
	Q - 5- 3		148559-000	N -25		150553-003	B - 2		150964-101	K - 4	
	R - 6- 5		148561-101	N -20		150554-002	E -14		150965-001	K - 5	
143591-001	J -10		148571-001	N -35		150557-001	Z -21- 3		150966-001	K - 7	
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143597-001	G - 2		148574-001	N -16		150891-002	A - 4		150968-001	K -12	
143608-001	G -27			N -38		150892-002	A - 6		150969-001	K -13	
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143610-001	G -30		148608-001	R - 4		150896-001	A -18		150971-001	K -24	
143613-001	G -32- 1- 3		148614-001	A -26		150897-001	A -19			Z -19	
	G -32- 2- 3		148619-001	P - 1		150898-001	C -12		150972-101	L - 1	
143616-001	G -34		148623-001	P - 2		150899-001	C -15		150975-001	L - 5	
143660-000	M -39		148625-001	P - 4		150900-101	C -17		150976-001	L - 5- 2	
143661-000	M -40		148628-001	P - 5		150901-001	D - 1		150977-001	L -15	
143669-000	M -46			P - 8		150902-001	D - 1- 2		150978-001	L -18	
143671-000	M -44		148629-001	P - 6		150904-001	D - 2		150980-001	L -18- 2	
	M -48		148632-001	P -11		150906-001	D - 2- 2		150981-001	L -18- 3	
	M -74		148633-001	P -17		150907-001	D - 2- 3		150982-001	L -18- 5	
143673-001	M -49		148638-001	R -41		150908-001	D - 3		150983-001	L -18- 6	
143766-001	M -69		148640-001	R -43		150909-001	D - 5		150984-001	L -18- 8	
143910-001	Z -15		148654-001	P -21		150910-001	D - 8		150985-001	L -18- 9	
144222-001	Z -10		148655-001	N -46		150911-001	D -10		150986-001	L -18-11	

Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark
150987-001	L-18-12		151601-002	F-33- 2		156453-001	F-23		100136-002	Z-8- 5	
150988-001	M- 1		151602-001	G-16		156454-001	F-34		100656-001	Z-8-14	
150989-000	M- 6			G-42		156463-001	K-25		151027-001	K-7- 1-11	
150990-001	M- 7		151602-002	A-16		156479-000	Q-16		151491-001	K-7- 2	
150993-101	M- 9		151603-001	L-18- 4		156548-001	Q- 5		156473-001	K-7- 2	
150994-000	M-10		151605-001	F- 5		156550-001	N-18		159944-001	K-7- 1	
150995-000	M-15			G-33- 2		156824-001	F-33				
150996-000	M-17			L - 4		156825-001	F-33 1				
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150998-000	M-23		153168-001	G- 5		158384-001	H- 2				
150999-000	M-39		153215-001	B-25		158747-001	G-11- 2				
151000-100	M-40		153231-001	G- 6		158748-001	G-22- 2				
151001-000	M-41		153483-001	K-14		158752-001	R-10				
151002-000	M-43		153969-000	N-50		158753-001	R- 9				
151003-000	M-45		153971-001	N-51		158782-101	B-22				
151004-000	M-46		154702-001	Z- 7		158814-001	N-27				
151005-000	M-47		154729-001	R- 6- 2		159365-001	N- 5				
151006-001	M-65		154730-001	R- 6- 3		159429-001	R- 5				
151007-101	M-71		154731-000	R- 6- 4		159436-001	F-31				
151008-001	B- 3		154734-001	R- 6		159805-001	B- 4- 2- 4				
151009-001	B- 4- 1		155447-101	F-29		159896-000	Q- 5				
151011-001	B- 4- 1-11		155448-001	G-17		159900-001	N-18				
	B- 4- 2-10		155449-001	G-18		159902-001	R- 6				
151012-001	B- 4- 1-16		155485-001	M-97		180157-001	C-20				
	B- 4- 2-15		155487-001	M-86		180321-001	G- 3				
151013-001	B-11		155493-001	B-24		180949-001	L-10				
151014-001	B-18		155510-001	B-23		180950-001	F-15				
151015-001	E- 9		156352-001	A-24		181486-001	L- 9				
151029-001	K- 7- 2- 7		156353-001	A-25		181712-001	N-30				
151030-001	K- 7- 2- 8		156360-001	G-32- 2		181713-001	N-32				
151072-001	F-23		156362-001	R- 1		183007-001	H- 5				
151073-001	F-22		156374-001	H- 9		183008-001	H- 5				
151080-001	G-24		156376-001	H-10		183014-001	H- 5				
151090-001	E- 7		156377-001	K- 1- 2		183015-001	H- 5				
151097-000	M-75		156378-001	K- 2		183016-001	H- 5				
151098-001	F-34		156380-001	K-24		183017-001	H- 5				
151148-001	B- 4- 1-17			Z-19		183018-001	H- 5				
	B- 4- 2-16		156382-001	L-18		183019-001	H- 5				
151191-001	D-27		156383-001	L-18-12		183020-001	H- 5				
151192-001	D-29		156384-001	A-21		183021-001	H- 5				
151193-001	D-30		156385-001	L-15		183022-001	H- 5				
151495-001	K- 7- 2- 6		156386-000	M-85		183023-001	H- 5				
151520-001	H- 7		156387-001	M-88		183024-001	H- 5				
151522-001	H- 7		156388-000	M-90		183025-001	H- 5				
151524-001	H- 7		156389-001	M-92		183026-001	H- 5				
151526-001	H- 7		156390-001	M-93		183027-001	H- 5				
151528-001	H- 7		156391-000	M-94		183028-001	H- 5				
151530-001	H- 7		156392-000	M-96		183029-001	H- 5				
151532-001	H- 7		156393-001	B- 4- 2		183030-001	H- 5				
151534-001	H- 7		156394-001	B- 4- 2-12		183031-001	H- 5				
151536-001	H- 7		156395-001	B-20		183032-001	H- 5				
151538-001	H- 7		156403-001	N-10		183181-001	H- 5				
151540-001	H- 7		156404-001	N-11		203735-001	D-23				
151542-001	H- 7		156405-101	N-12		215083-001	S- 2- 5				
151544-001	H- 7		156406-001	N-42			S- 2-14				
151546-001	H- 7		156408-001	N-44		217093-001	S- 2-16				
151548-001	H- 7		156409-001	P- 7			S- 2-18				
151550-001	H- 7		156410-001	P-14			S- 2-21				
151552-001	H- 7		156411-001	P-16		219557-000	S- 2- 6				
151554-001	H- 7		156412-001	P-10		219558-000	S- 2- 7				
151556-001	H- 7		156413-001	P-18		219559-001	S- 2- 8				
151558-001	H- 7		156414-001	S- 1		221421-001	S- 2- 9				
151560-001	H- 7		156415-001	Q- 1		224349-001	S- 2-19				
151562-001	H- 7		156416-001	Q-13		224357-001	S- 2				
151564-001	H- 7		156417-001	Q-14		224358-001	S- 2-10				
151566-001	H- 7		156418-001	Q-11							
151568-001	H- 7		156419-001	Q-12		S01025-001	K- 7- 1				



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