

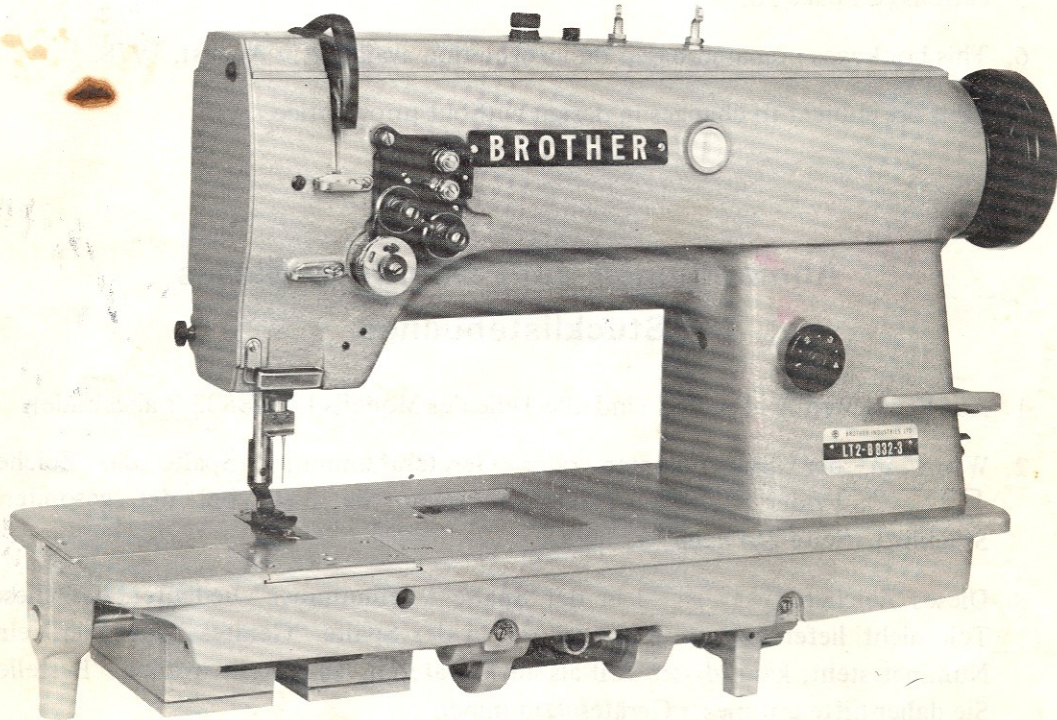
Quind

PARTS BOOK

FOR

BROTHER LT2-B832

DESCANTADO



Twin Needle Needle Feed Lock Stitcher

Twin Needle Feed Lock Stitcher with Automatic Threader

Cavemac

BROTHER INDUSTRIES

NAGOYA, JAPAN

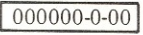
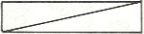
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ORIGINAL

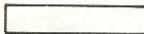
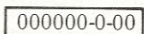
Identificação	EDIÇÃO
Edição	1
Conteúdo	



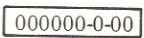
Notes for using this parts book

1. Pages A~F and Z show all parts for model LT2-B-832-3.
2. If the symbol  or  is in the "Parts No." column or the "Assembly No." column, please refer to the separate parts list (page 26).
3. The symbol  in the "Parts No." column indicates that the part is not available for supply. If, however, there is a number in the "Assembly No." column, the parts can be ordered as an assembly. Please, therefore, order by using the Assembly No.
4. If the * symbol is found before the Parts No., order this part together with its paired part.
5. For page 7 and after, also refer to the separate parts list (classified by specifications) on page 26.
6. This book was prepared based on information available in August, 1978.
7. Parts are subject to changes in design without prior notice.

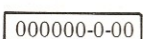
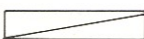
Anmerkungen zum Gebrauch dieses Stücklistebuches

1. Auf den Seiten A-F und Z sind alle Teile des Modells LT2-B832-3 abgebildet.
2. Wenn in der Stücknummer, oder Gerätesatznummer Spalte das Zeichen  oder  steht, schlagen Sie bitte bei der gesonderte Stückliste (Seite 26) nach.
3. Dieses Zeichen  in der Spalte "Teilnummer" bedeutet, daß dieser Teil nicht lieferbar ist. Wenn jedoch in der Spalte "Gerätesatznummer" eine Nummer steht, kann dieser Teil als ein Geräteteilsatz bestellt werden. Bestellen Sie daher bitte mit dieser Gerätesatznummer.
4. Bei diesem Zeichen * vor der Teilnummer bestellen Sie bitte diesen Teil paarweise, zusammen mit seinem Gegenstück.
5. Für Seite 7 ff. sehen Sie bitte auch die gesonderte Stückliste (geordnet nach den Spezifikationen) auf Seite 26.
6. Dieses Buch basiert auf den Informationen vom August 1978.
7. Modelländerungen sind vorbehalten.

Notes sur l'utilisation de ce manuel de pièces détachées

1. Les pages de A à F et le page Z montrent toutes les pièces (vue éclatée) du modèle LT2-B832-3.
2. Si le symbole  ou  est présent dans la colonne "No. de pièce" ou dans la colonne "No. de ensemble", se référer à la liste de pièces annexe (page 26).
3. Le symbole  dans la colonne "N° de pièce" signifie que la pièce ne peut être fournie. Si, dans la colonne "N° jeu de pces", il y a un numéro de nomenclature, la pièce peut être commandée comme faisant partie d'un jeu de pièces. Donc, pour toute commande, veuillez spécifier le n° du jeu de pièces.
4. Si, devant le n° de pièce, il y a le symbole *, veuillez commander cette pièce avec sa pièce appariée.
5. Pour la page 7 et les suivantes, veuillez aussi vous référer à la liste de pièces annexe (classées selon les spécifications), page 26.
6. Ce manuel a été fait d'après les renseignements valables au mois de Août 1978.
7. Les pièces peuvent être sujettes à des modifications sans préavis.

Notas para usar este Libro de Piezas

1. Las páginas desde A a F y la Z muestran todas las piezas del model LT2-B832-3.
2. De haber el símbolo  o el  en la columna del "Número de Pieza" o en la del "Número de Juego", habrá que ver la lista de piezas separada (página 26).
3. El símbolo  , que se encuentra en la columna del "Número de Pieza", quiere decir que no se dispone de dicha pieza sola. Cuando, empero, hay un número en la columna del "Numero de Juego", se podrá ordenar la pieza con todo el juego. Por lo tanto, será mejor hacer el pedido recurriendo al número del juego respectivo.
4. Si, antes del número de una pieza, se encuentra el símbolo *, habrá que ordenar dicha pieza junto con la otra con la que va la misma.
5. Para la página 7 y las que le sigan, habrá que ver también la lista de piezas separada (clasificada según las especificaciones) de la página 26.
6. Este libro ha sido compilado basándose en los datos de que se disponía en Agosto de 1978.
7. Las piezas quedan sujetas a cambios de diseño sin aviso previo.

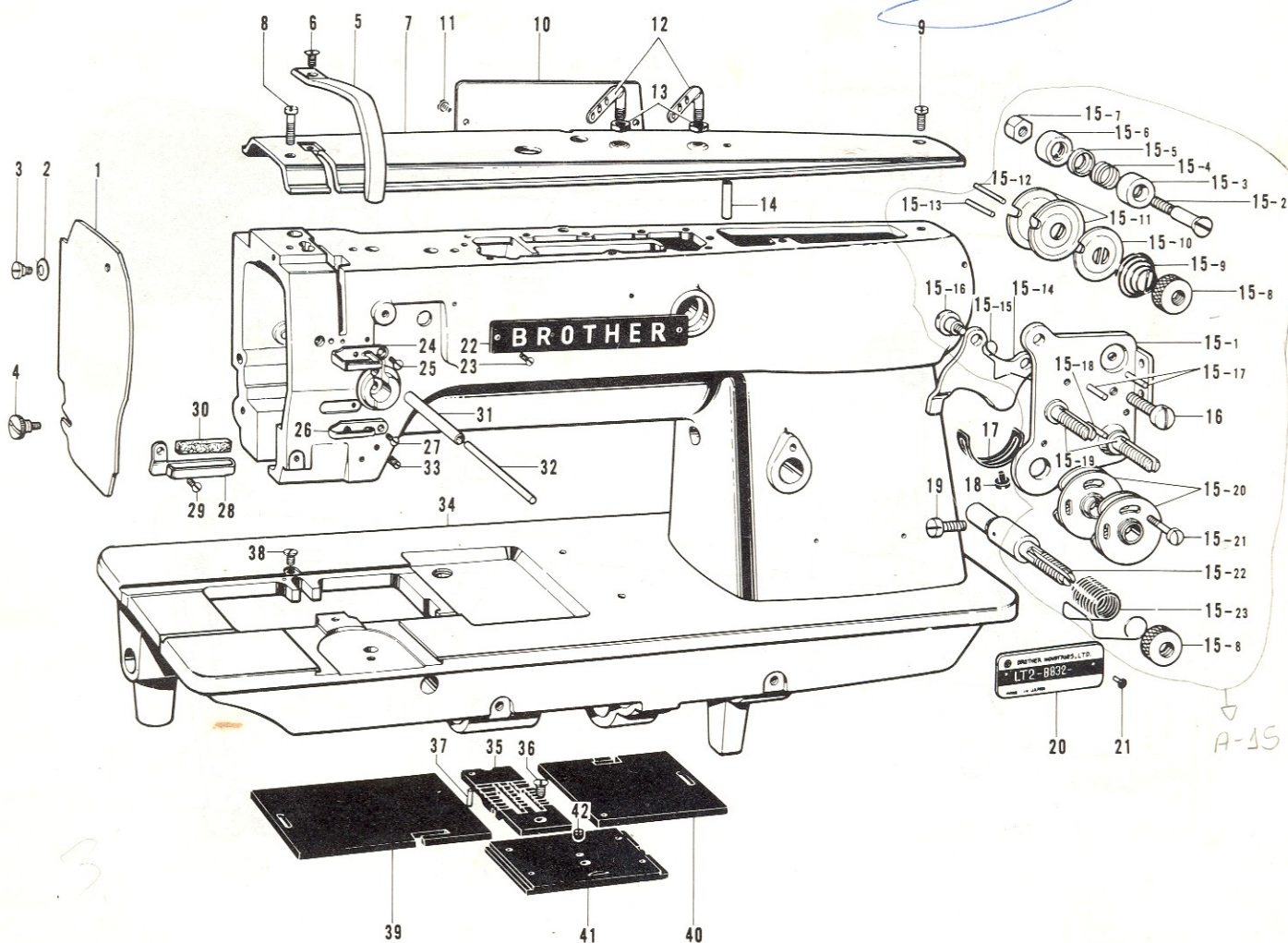
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A. Machine Body and Threading

10-3-79

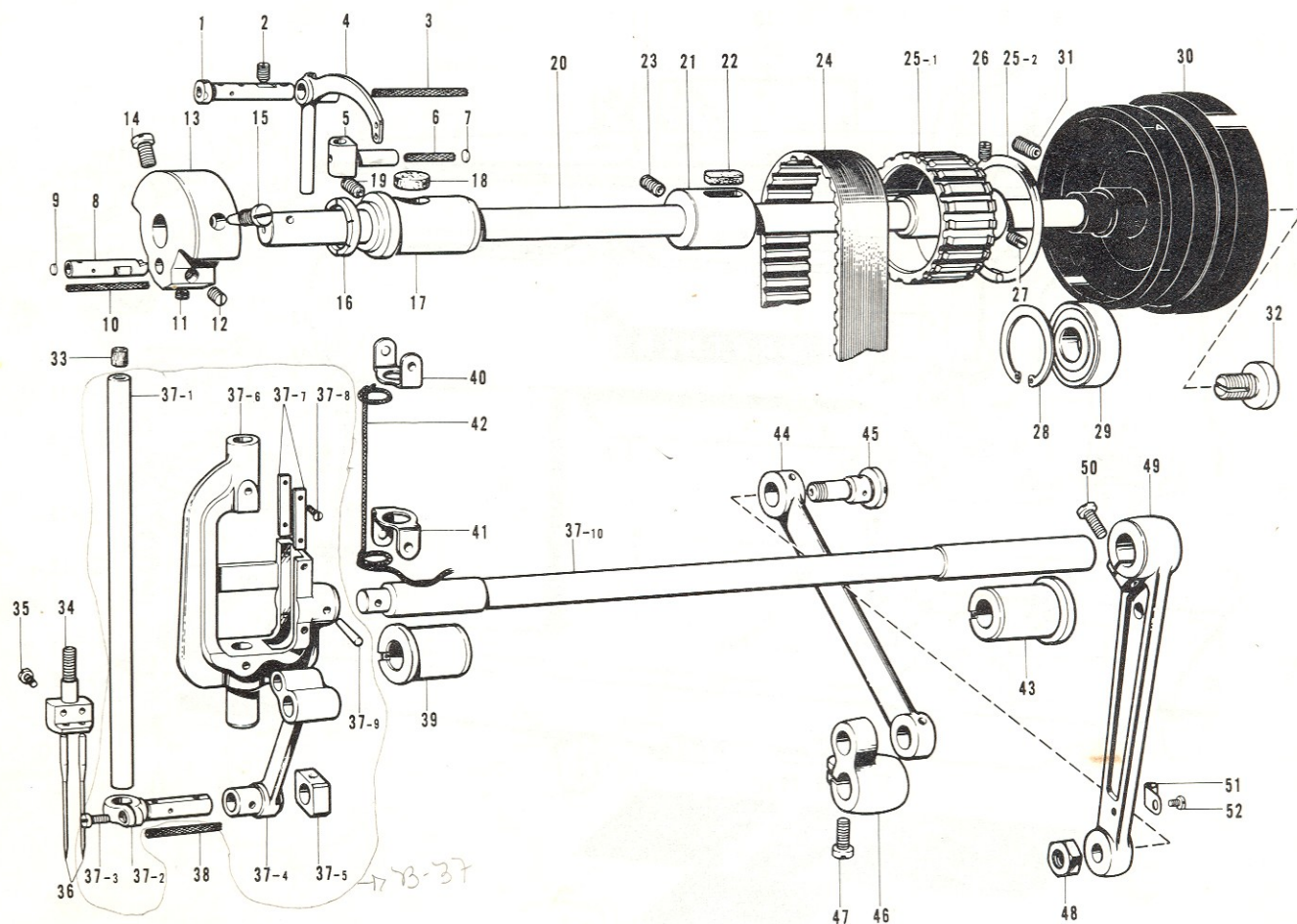
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Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
A- 1	Face Plate	1	151101-0-01	X	A-15-19	Tension Stud	2	112706-001	
A- 2	Spring Washer	1	146598-0-01		A-15-20	Spring Guide	2	108254-0-01	
A- 3	Stud Screw	1	148633-0-01		A-15-21	Set Screw	1	144682-0-01	
A- 4	Screw	1	106120-0-02	X	A-15-22	Tension Stud	1	144680-0-01	
A- 5	Thread Take-up Cover	1	112561-0-02		A-15-23	Thread Take-up Spring	1	144681-0-01	
A- 6	Screw	1	107231-0-02		A-16	Screw	1	009681-0-14	X
A- 7	Arm Top Cover	1	112560-0-01		A-17	Stopper	1	112709-0-01	
A- 8	Screw	1	009681-6-13	X	A-18	Screw	1	009670-6-12	
A- 9	Screw	1	009681-0-14	X	A-19	Screw	1	100064-0 02	
A-10	Rear Cover	1	112566-0-01		A-20	Model Plate	1		
A-11	Screw	2	009670-6-12		A-21	Pin	2		
A-12	Top Cover Thread Guide	2	140527-0-01		A-22	Name Plate	1		
A-13	Nut	2	150553-0-03		A-23	Screw	2		
A-14	Oil Pipe	1	112696-0-00		A-24	Arm Thread Guide Upper	1	108266-0-01	
A-15- 1	Upper Thread Tension Plate	1			A-25	Set Screw	1	108960-0-04	
A-15- 2	Screw	2	144689-0-01		A-26	Arm Thread Guide, Center	1	112658-0-01	
A-15- 3	Thread Guide Cop	2	144685-0-01		A-27	Set Screw	1	108960-0-04	
A-15- 4	Thread Guide Spring	2	144688-0-01		A-28	Arm Thread Guide, Lower	1	112715-0-01	
A-15- 5	Thread Guide Disc	2	144686-0-01		A-29	Screw	1	108960-0-04	
A-15- 6	Thread Guide Bracket	2	144687-0-01		A-30	Felt	1	114941-0-01	X
A-15- 7	Nut	2	021670-1-02		A-31	Pipe	1	112714-0-00	
A-15- 8	Tension Control Nut	3	108265-0-01	A-15	A-32	Thread Release Shaft	1	144823-0-01	
A-15- 9	Tension Spring	2		Upper	A-33	Screw	2	151602-0-02	
A-15-10	Tension Disc Washer	2	108264-0-01	Tension	A-34	Arm Bed	1		
A-15-11	Tension Disc	4	108263-0-01	Control	A-35	Needle Plate Assembly	1		
A-15-12	Thread Release Pin	1	144704-0-01	Assembly	A-36	Screw	1	100032-0-01	
A-15-13	Thread Release Pin	1	144703-0-01		A-37	Pin	1	113386-0-00	
A-15-14	Tension Release Plate	1	144683-0-01		A-38	Screw	1	112751-0-02	
A-15-15	Arm Thread Guide Upper	2	118320-0-01		A-39	Slide Plate, Left	1		
A-15-16	Stud Screw	2	112712-0-01		A-40	Slide Plate, Right	1	112607-0-01	
A-15-17	Pin	2			A-41	Slide Plate, Front Assembly	1	112610-0-01	
A-15-18	Pin	2			A-42	Screw	1	116010-0-01	

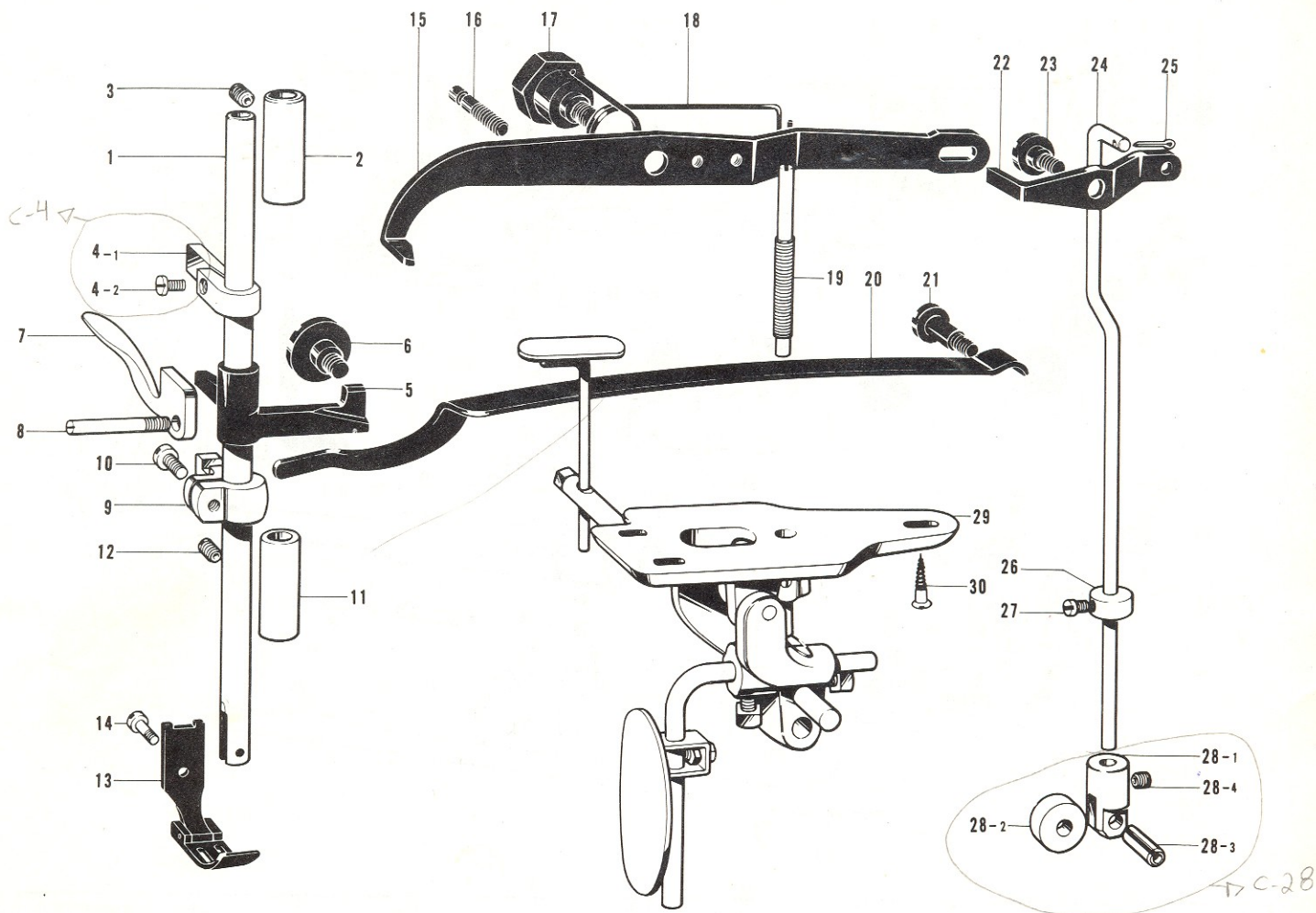
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B. Upper Shaft, Needle Bar and Rocking Mechanism



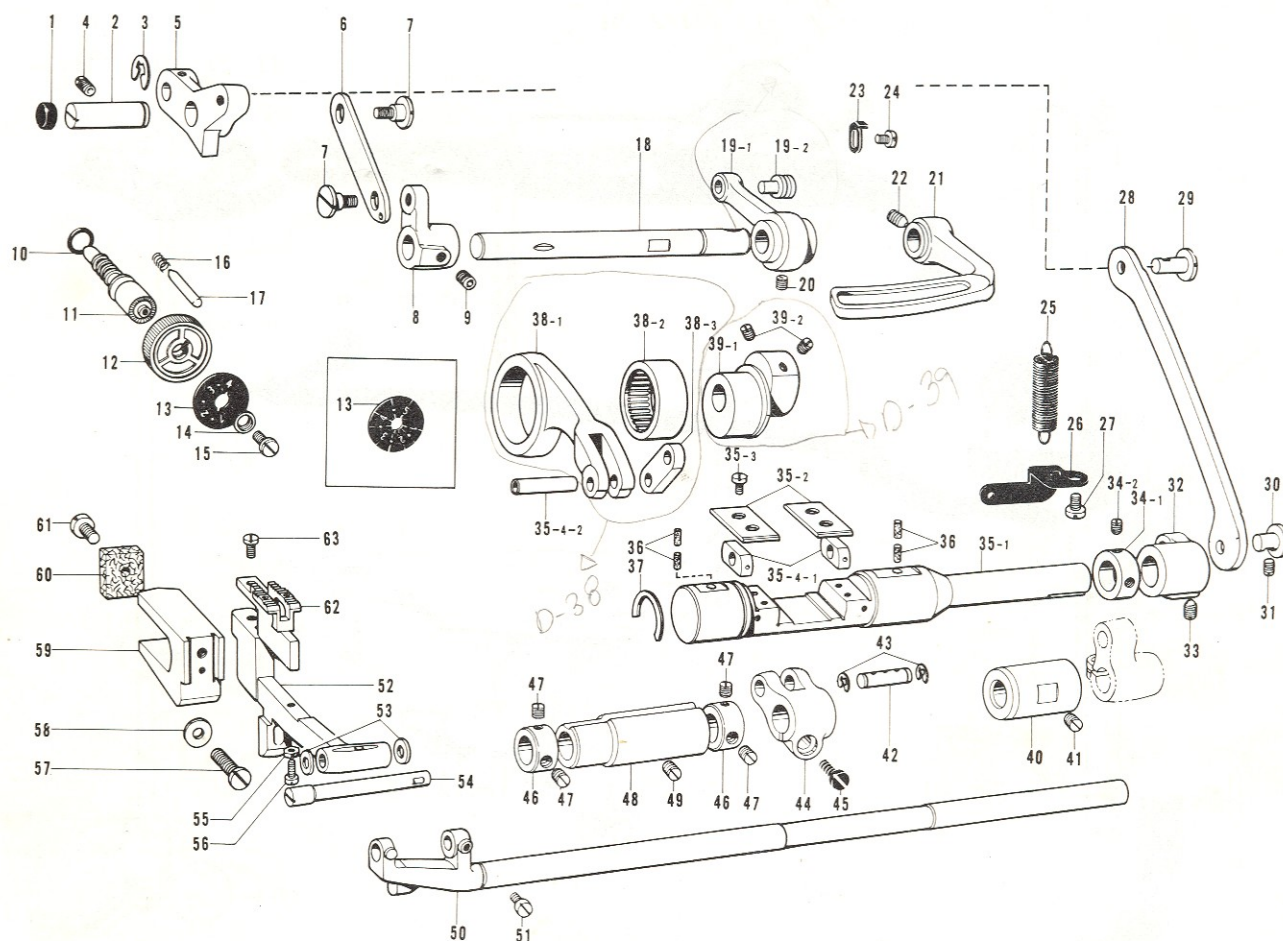
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
B- 1	Stud	1	112579-0-01		B-31	Screw	2	013761-4-10	
B- 2	Screw	1	151605-0-01		B-32	Screw	1	104478-0-01	
B- 3	Thread Take-up Lever	1			B-33	Needle Bar Cap	1	148394-0-00	
B- 4	Wick	1	112735-0-01		B-34	Needle Clamp	1		
B- 5	Thread Take-up Lever Slide Block	1	118171-0-01		B-35	Screw	2	116323-0-01	
B- 6	Wick	1	114693-0-01		B-36	Needle DPX5	2		
B- 7	Pusher	1	113024-0-00		B-37- 1	Needle Bar	1	112591-0-01	
B- 8	Needle Bar Crank	1	112577-0-01		B-37- 2	Needle Bar Clamp	1	112592-0-01	
B- 9	Pusher	1	113014-0-00		B-37- 3	Screw	1	009670-8-12	
B-10	Wick	1	112735-0-00		B-37- 4	Needle Bar Clank Rod	1	112593-0-01	
B-11	Screw	1	101706-0-01		B-37- 5	Needle Bar Guide Slide Block	1	112721-0-01	
B-12	Screw	1	151606-0-01		B-37- 6	Needle Bar Support	1	112589-1-00	
B-13	Counter Weight	1	112574-0-00		B-37- 7	Needle Bar Guide Plate	2	112590-0-01	
B-14	Screw	1	146141-0-01		B-37- 8	Screw	4	102731-0-04	
B-15	Screw	1	100250-0-01		B-37- 9	Pin	1	107030-0-01	
B-16	Thrust Ring	1	112576-0-01		B-37-10	Needle Bar Rock Shaft	1	112588-0-01	
B-17	Upper Shaft Bushing Left	1	112573-0-01		B-38	Wick	1	112728-0-01	
B-18	Felt	1	112734-0-01		B-39	Needle Bar Rock Shaft Bushing Left	1	112594-0-01	
B-19	Screw	1	013761-4-10		B-40	Wick Presser (Upper)	1	112719-0-01	
B-20	Upper Shaft	1	112572-0-01		B-41	Wick Presser (Lower)	1	112720-0-01	
B-21	Upper Shaft Bushing Center	1	114680-0-01		B-42	Wick	1	116699-0-00	
B-22	Felt	1	100248-0-01		B-43	Needle Bar Rock Shaft Bushing Right	1	112764-0-01	
B-23	Screw	1	013761-4-10		B-44	Needle Bar Rock Link	1	112596-0-01	
B-24	Timing Belt	1	112586-0-01		B-45	Screw	2	112597-0-01	
B-25-1	Timing Belt Wheel Upper	1	180157-0-01	10-25 Timing Belt Wheel Upper Assembly 180157-0-01	B-46	Needle Bar Connecting Crank	1	112598-0-01	
B-25-2	Side Ring	2	112587-1-01		B-47	Screw	1	009781-8-12	
B-26	Screw	1	015771-2-12		B-48	Nut	2	101268-0-03	
B-27	Screw	1	013771-2-12		B-49	Needle Bar Connecting Rod	1	112595-0-00	
B-28	Stop Ring	1	112760-0-01		B-50	Screw	1	105351-0-02	
B-29	Ball Bearing	1	072620-4-60		B-51	Wick Support	1	112739-0-01	
B-30	Pulley	1	144614-0-01		B-52	Screw	1	009670-5-12	

C. Presser Foot Mechanism



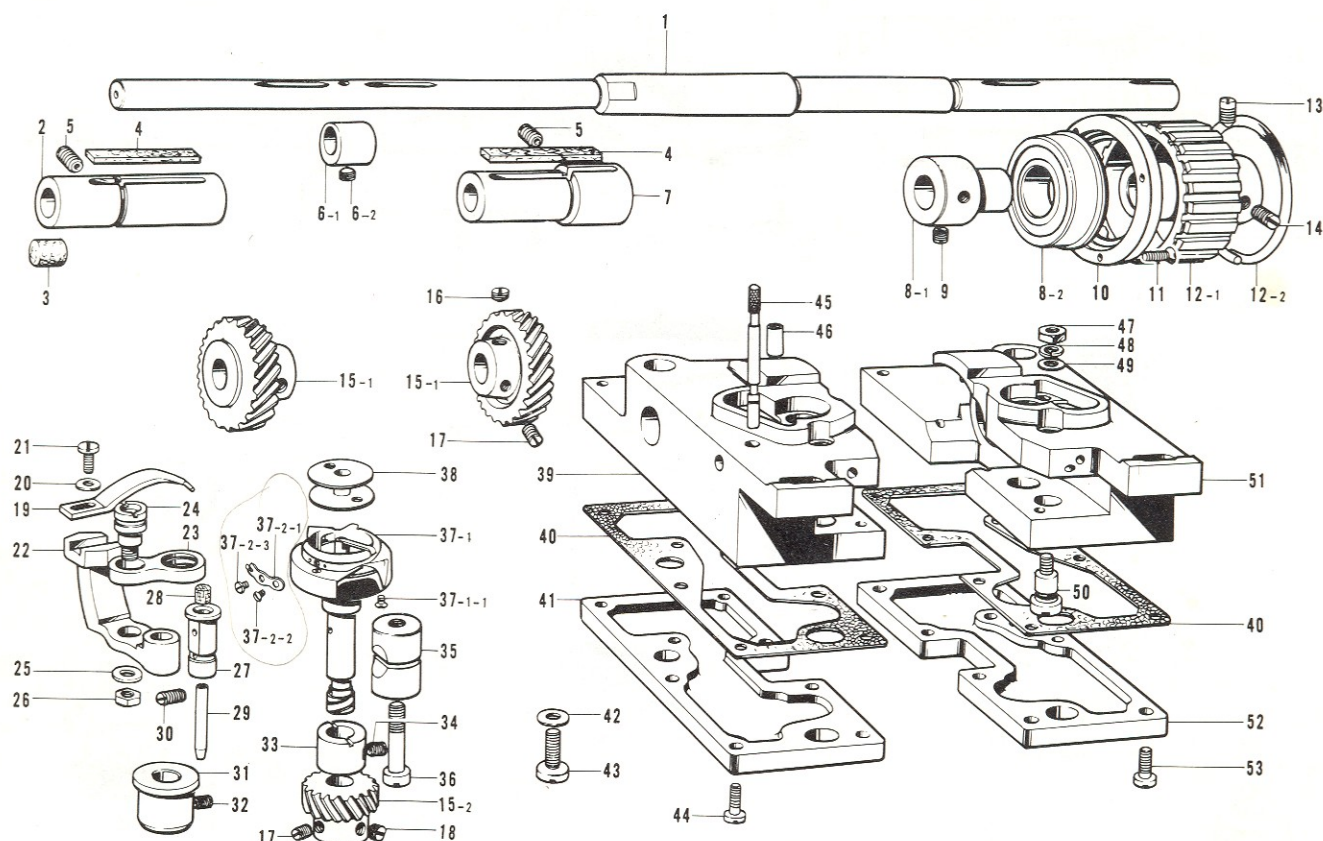
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
C- 1	Presser Bar	1	112614-0-01		C-17	Screw	1	112626-0-01	
C- 2	Presser Bar Bushing, Upper	1	112615-0-01		C-18	Spring	1	112629-0-01	
C- 3	Screw	1	100260-0-01		C-19	Presser Adjusting Screw	1	112624-0-01	
C- 4-1	Presser Bar Guide	1	180950-0-01	C-4 Presser Bar Guide Assembly 180950-0-01	C-20	Presser Plate Spring	1	118170-0-01	
C- 4-2	Screw	1	009680-7-12		C-21	Screw	1	112623-0-01	
C- 5	Presser Bar Lifter	1	148483-0-01		C-22	Knee Lifter Connecting Lever	1	112627-0-01	
C- 6	Presser Bar Lifter Guide	1	112631-0-01		C-23	Screw	1	112628-0-01	
C- 7	Presser Foot Lifter	1	112618-0-01		C-24	Knee Lifter Connecting Rod	1	112632-0-01	
C- 8	Screw	1	112619-0-01		C-25	Pin	1	114909-0-00	
C- 9	Presser Bar Bracket	1	112616-0-01		C-26	Collar	1	112634-0-02	
C-10	Screw	1	009670-8-12		C-27	Screw	1	104908-0-04	
C-11	Presser Bar Bushing, Lower	1	112763-0-01		C-28-1	Roller Bracket	1	116276-0-01	C-28 Knee Lifter Roller Bracket 116276-0-01
C-12	Screw	1	151604-0-01		C-28-2	Roller	1	112636-0-01	
C-13	Presser Foot	1			C-28-3	Pin	1	047501-2-42	
C-14	Screw	1	113050-0-01		C-28-4	Screw	1	151601-0-02	
C-15	Knee Lifter Lever	1	112625-0-01		C-29	Knee Lifter Assembly	1	113380-0-01	
C-16	Stopper Screw	1	112630-0-01		C-30	Screw	3	106030-0-01	

D. Feed Mechanism



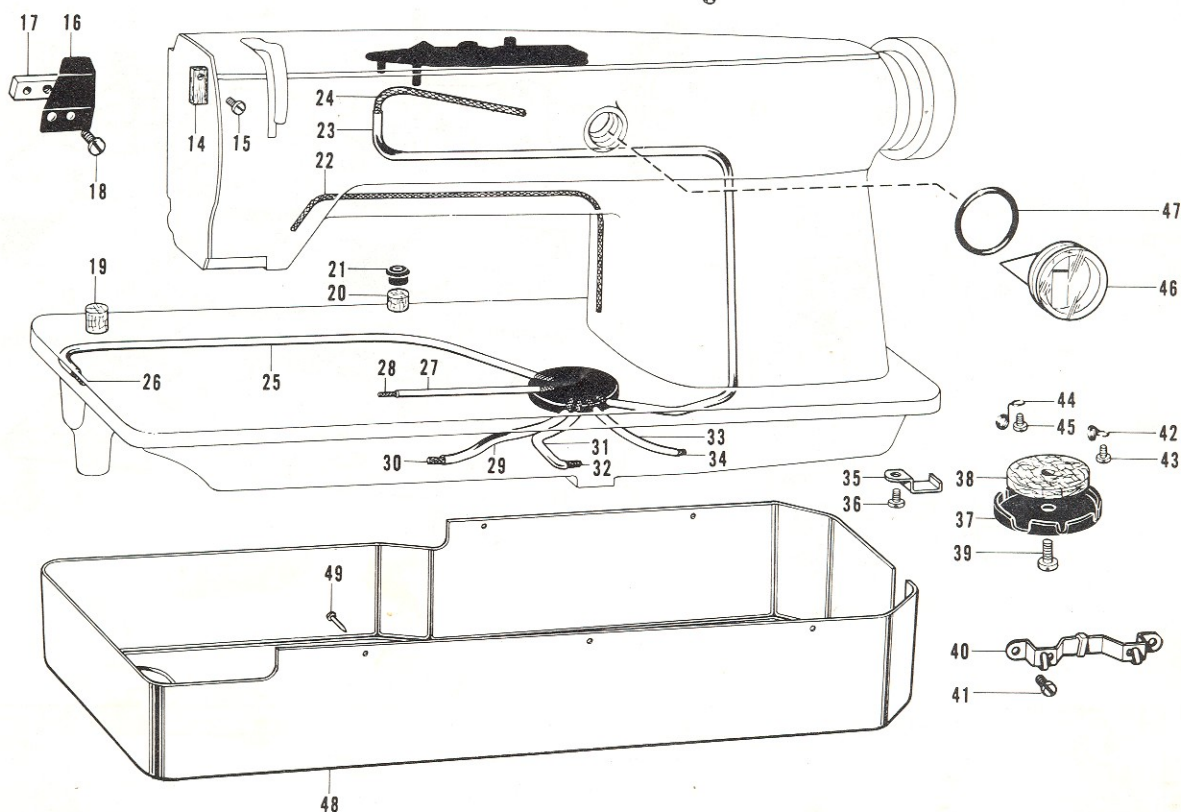
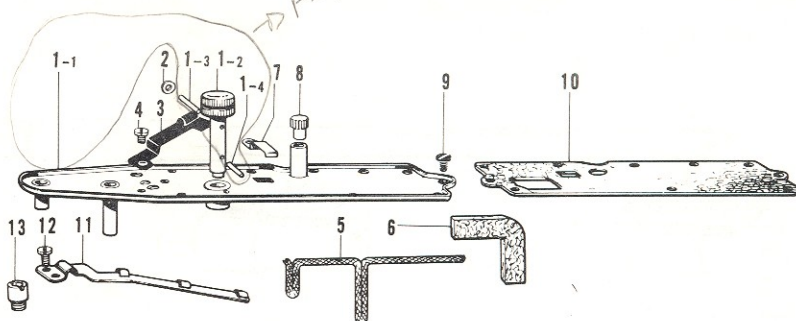
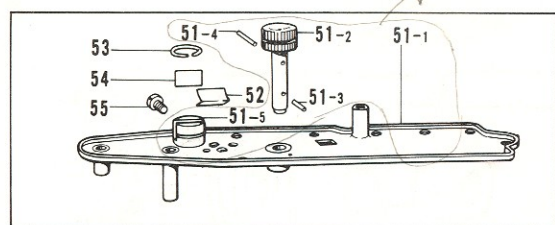
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
D- 1	Cap	1	143766-0-01		D-35-1	Feed Regulator Shaft	1	148771-0-01	D-35
D- 2	Feed Regulator Stud	1	148488-0-01		D-35-2	Slide Block Guide Plate	2	143594-0-01	Feed Regulator Shaft Assembly 148771-0-01
D- 3	Stop Ring	1	048070-3-42		D-35-3	Screw	4	009681-0-12	
D- 4	Screw	1	151605-0-01		D-35-4-1	Feed Regulator Slide Block	2	143613-0-01	D-35-4
D- 5	Feed Regulator	1	148489-0-01		D-35-4-2	Feed Regulator Slide Block Shaft	1	143613-0-01	Slide Block 145328-0-01
D- 6	Connecting Plate	1	118746-0-01		D-36	Felt	4	148743-0-01	
D- 7	Screw	2	112072-0-01		D-37	Stop Ring	1	143597-0-01	
D- 8	Lever	1	118747-0-01		D-38-1	Level Feed Connecting Rod	1	143612-0-00	D-38
D- 9	Screw	1	118853-0-01		D-38-2	Needle Bearing	1	118954-0-00	Level Feed Connecting Rod Assembly 143611-0-01
D-10	Packing	1	108549-0-01		D-38-3	Level Feed Connecting Link	1	143613-0-01	
D-11	Length Control Screw	1	143598-0-01		D-39-1	Eccentric Wheel	1	148802-0-01	D-39
D-12	Length Control	1	151320-0-01		D-39-2	Screw	2	151605-0-01	Eccentric Wheel 148802-0-01
D-13	Length Control Plate	1			D-40	Feed Rock Shaft Bushing Right	1	148493-0-01	
D-14	Washer	1	142746-0-02		D-41	Screw	1	013761-4-10	
D-15	Screw	1	142747-0-02		D-42	Stud	1	143616-0-01	
D-16	Spring	1	100328-0-01		D-43	Stop Ring	2	048060-3-42	
D-17	Pin	1	145502-0-01		D-44	Lever Feed Arm	1	148495-0-01	
D-18	Feed Regulator Lever Shaft	1	151080-0-01		D-45	Screw	1	009781-8-12	
D-19-1	Link B	1	143608-0-01	D-19 Link Assembly 143608-0-01	D-46	Collar	2	113074-0-01	
D-19-2	Spring Hook	1	108546-0-01		D-47	Screw	4	101706-0-01	
D-20	Screw	1	014760-6-22		D-48	Feed Rock Shaft Bushing Left	1	148494-0-01	
D-21	Reverse Lever	1	118752-0-01		D-49	Screw	1	013761-4-10	
D-22	Screw	1	015771-0-12		D-50	Feed Rock Shaft	1	149001-0-01	
D-23	Reverse Lever Stopper	1	118865-0-01		D-51	Screw	1	104908-0-04	
D-24	Screw	1	009680-7-12		D-52	Feed Bar	1	151081-0-01	
D-25	Spring	1	143609-0-01		D-53	Thrust Ring	2	143591-0-01	
D-26	Spring Hook Plate	1	143610-0-01		D-54	Feed Bar Shaft	1	148977-0-01	
D-27	Screw	1	009710-8-12		D-55	Nut	1	021660-1-03	
D-28	Feed Regulator Connecting Link	1	148487-0-01		D-56	Screw	1	107278-0-02	
D-29	Pin	1	118713-0-01		D-57	Screw	1	009761-4-12	
D-30	Pin	1	148501-0-01		D-58	Washer	1	025060-1-32	
D-31	Screw	2	151602-0-01		D-59	Feed Bar Fork	1	112656-0-01	
D-32	Feed Regulator Arm	1			D-60	Felt	1	112759-0-01	
D-33	Screw	1	118853-0-01		D-61	Screw	1	100242-0-03	
D-34-1	Collar	1	143608-0-01	D-34 Collar Assembly 180321-0-01	D-62	Feed Dog	1		
D-34-2	Screw	2	101706-0-01		D-63	Screw	2	116283-0-01	

E. Lower Shaft, Rotary Hook Mechanism



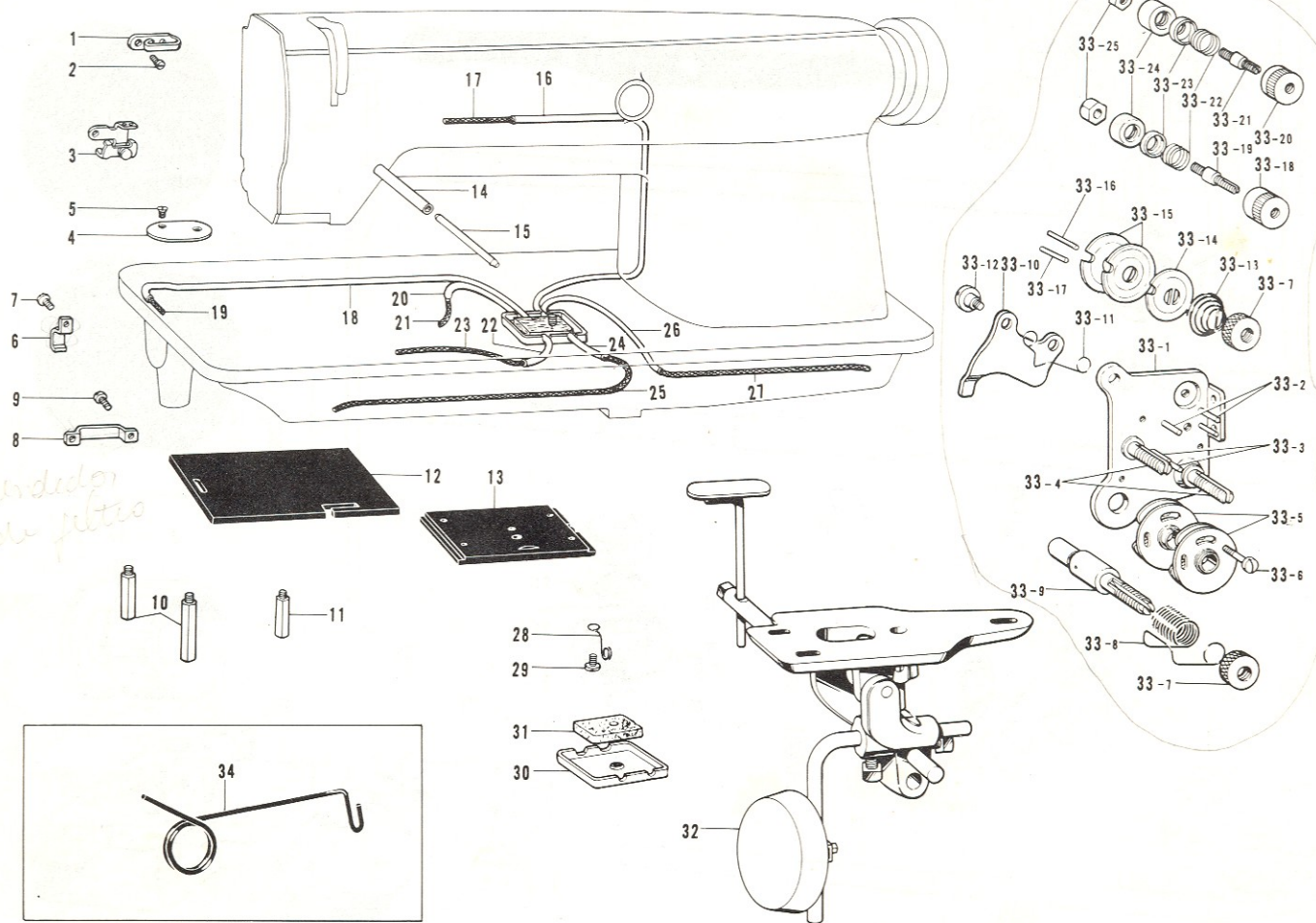
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
E- 1	Lower Shaft	1	151082-0-01		E-28	Felt	2	107155-0-01	
E- 2	Rotary Hook Base Bushing, Left	1	148503-0-00		E-29	Pipe	1	112696-0-00	
E- 3	Felt	1	115249-0-01	X	E-30	Screw	2	011711-4-12	X
E- 4	Felt	2	113362-0-01	X	E-31	Rotary Hook Shaft Bushing Lower	2	112687-0-01	
E- 5	Screw	2	151604-0-01		E-32	Screw	2	107794-0-01	X
E- 6-1	Vertical Feed Eccentric Wheel	1	181486-0-01	E-6 Vertical Feed Eccentric Wheel Assembly 181486-0-01	E-33	Rotary Hook Shaft Bushing Upper	2	112690-0-01	
E- 6-2	Screw	1	112684-0-01		E-34	Screw	2	107794-0-01	X
E- 7	Rotary Hook Base Bushing, Right	1	148502-0-00		E-35	Pinch Sleeve	2	112699-0-01	X
E- 8-1	Ball Bearing	1	112666-0-00		E-36	Screw	2	112700-0-01	
E- 8-2	Bushing	1	112667-0-01	E-8 Bushing 112698-0-01 X	E-37-1	Outer Rotary Hook Assembly	2		E-37 Rotary Hook 151028-0-01
E- 9	Screw	2	013780-7-10		E-37-1-1	Screw	4	151028-0-01	
E-10	Bearing Presser	1	112668-0-01	X	E-37-2-1	Adjusting Spring	2		
E-11	Screw	3	005671-2-12	X	E-37-2-2	Screw	2	151029-0-01	E-37-2-1 Inner Rotary Hook Assembly 151029-0-01
E-12-1	Timing Belt Wheel Lower	1	180164-0-01	E-12 Timing Belt Wheel Lower Assembly 180164-0-01	E-37-2-3	Screw	2	151030-0-01	
E-12-2	Ring	1			E-38	Bobbin	2	112781-0-01	
E-13	Screw	1	015771-2-12	X	E-39	Rotary Hook Base, Left	1	112685-0-01	
E-14	Screw		013771-2-12	X	E-40	Packing	2	112755-0-01	
E-15-1	Spiral Gear	2	180244-0-01	E-15 Spiral Gear Assembly 180244-0-01	E-41	Oil Reservoir, Left	1	112686-0-01	
E-15-2	Pinion	2			E-42	Washer	2	100197-0-02	X
E-16	Screw	2	112684-0-01		E-43	Screw	2	105351-0-02	
E-17	Screw	4	151606-0-01	X	E-44	Screw	8	100032-0-02	
E-18	Screw	6	101706-0-01		E-45	Oil Gauge	2	112757-0-01	
E-19	Bobbin Case Opener	2	112697-0-01		E-46	Oil Pipe	2	115287-0-00	X
E-20	Washer	2	105161-0-02		E-47	Nut	2	105234-0-01	
E-21	Screw	2	009670-8-12		E-48	Washer	2	028680-2-43	
E-22	Opener Crank	2	112694-0-01		E-49	Washer	2	100645-0-03	
E-23	Opener Link	2	112692-0-01		E-50	Oil Adjusting Screw	2	112756-0-01	
E-24	Opener Link Stud	2	148005-0-01		E-51	Rotary Hook Base, Right	1	112701-0-01	
E-25	Washer	2	025710-2-32		E-52	Rotary Hook Base Oil Reservoir, Right	1	112702-0-01	
E-26	Nut	2	021710-2-12		E-53	Screw	8	100320-0-02	
E-27	Opener Crank Stud	2	112695-0-01						

F. Lubrication



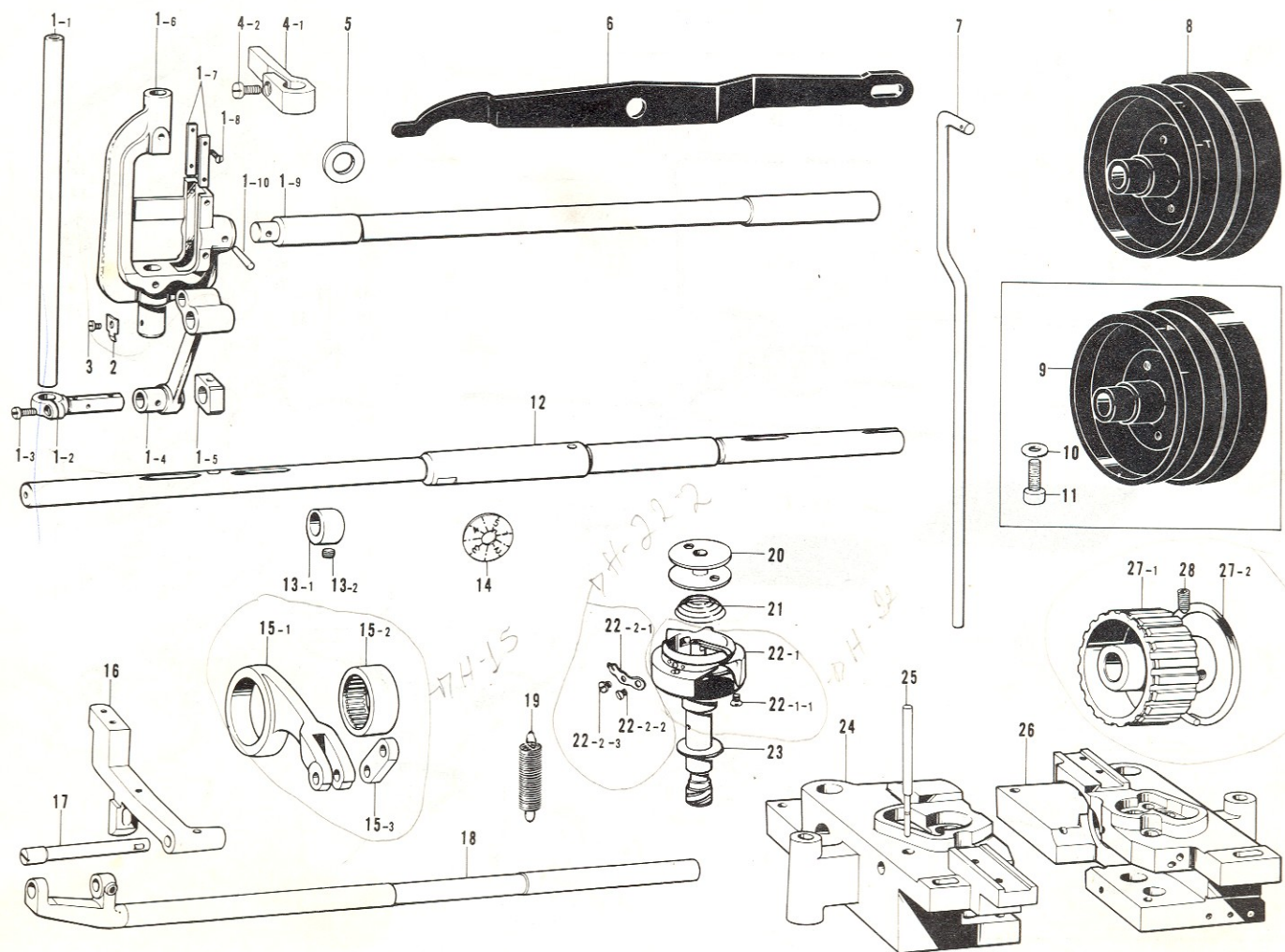
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
F- 1-1	Oil Reservoir Plate	1		F-1 Oil Reservoir Plate Assembly 112762-00	F-29	Oil Tube	1	143669-0-00	X
F- 1-2	Oil Adjusting Knob	1			F-30	Wick	1	143668-0-00	X
F- 1-3	Pin	1			F-31	Oil Tube	1	143669-0-00	X
F- 1-4	Pin	1			F-32	Wick	1	143668-0-00	X
F- 2	Washer	1	503093-0-01	X	F-33	Oil Tube	1	143671-0-00	X
F- 3	Spring Plate	1	112730-0-01		F-34	Wick	1	143670-0-00	X
F- 4	Screw	1	009679-3-12		F-35	Felt Presser	2	114297-0-01	
F- 5	Wick	1	112725-0-01	X	F-36	Screw	2	009670-5-12	
F- 6	Felt	1	112724-0-01	X	F-37	Oil Pipe Supporter	1	151083-0-01	X
F- 7	Felt Presser	1	114297-0-01		F-38	Oil Felt	1	112741-0-01	X
F- 8	Cap for Oil Tube	1	113526-0-01		F-39	Screw	1	009711-0-12	X
F- 9	Screw	10	009670-6-12		F-40	Wick Supporter	1	143673-0-01	
F-10	Packing	1	112723-0-01		F-41	Screw	2	009660-4-12	
F-11	Wick Supporter	1	143657-0-01		F-42	Tube Holder		112743-0-01	
F-12	Screw	2	106640-0-01	X	F-43	Screw		009670-5-12	
F-13	Oil Guide Tube	1	113524-0-01		F-44	Tube Holder		112744-0-01	
F-14	Felt	1	148762-0-01	X	F-45	Screw		009670-5-12	
F-15	Screw	1	001670-6-12	X	F-46	Oil Gauge Window	1	116558-0-01	
F-16	Oil Stopper Plate	1	112716-0-01		F-47	O Ring	1	081016-0-70	
F-17	Oil Stopper Plate Presser	1	112717-0-01		F-48	Oil Pan	1	151007-0-01	X
F-18	Screw	1	009710-8-12		F-49	Nail	5	109714-0-00	
F-19	Felt	1	112754-0-01	X	F-50	Oiler	1	114486-0-01	
F-20	Felt	1	112753-0-01	X	F-51-1	Oil Plate	1		F-51 Oil Pan Plate Assembly 109671-01
F-21	Oil Cap	1	112758-0-01		F-51-2	Oil Adjusting Knob	1		
F-22	Wick	1	112736-0-00	X	F-51-3	Pin	1		
F-23	Oil Tube	1	112737-0-01		F-51-4	Pin	1		
F-24	Wick	1	112738-0-00		F-51-5	Oil Plate Bushing	1		
F-25	Oil Tube	1	143661-0-00	X	F-52	Spring	1		
F-26	Wick	1	143660-0-00	X	F-53	Stop Ring	1		
F-27	Oil Tube	1	151084-0-00	X	F-54	Wick Presser Plate	1		
F-28	Wick	1	143662-0-00	X	F-55	Screw	1		

G. -400 •-500 Specification



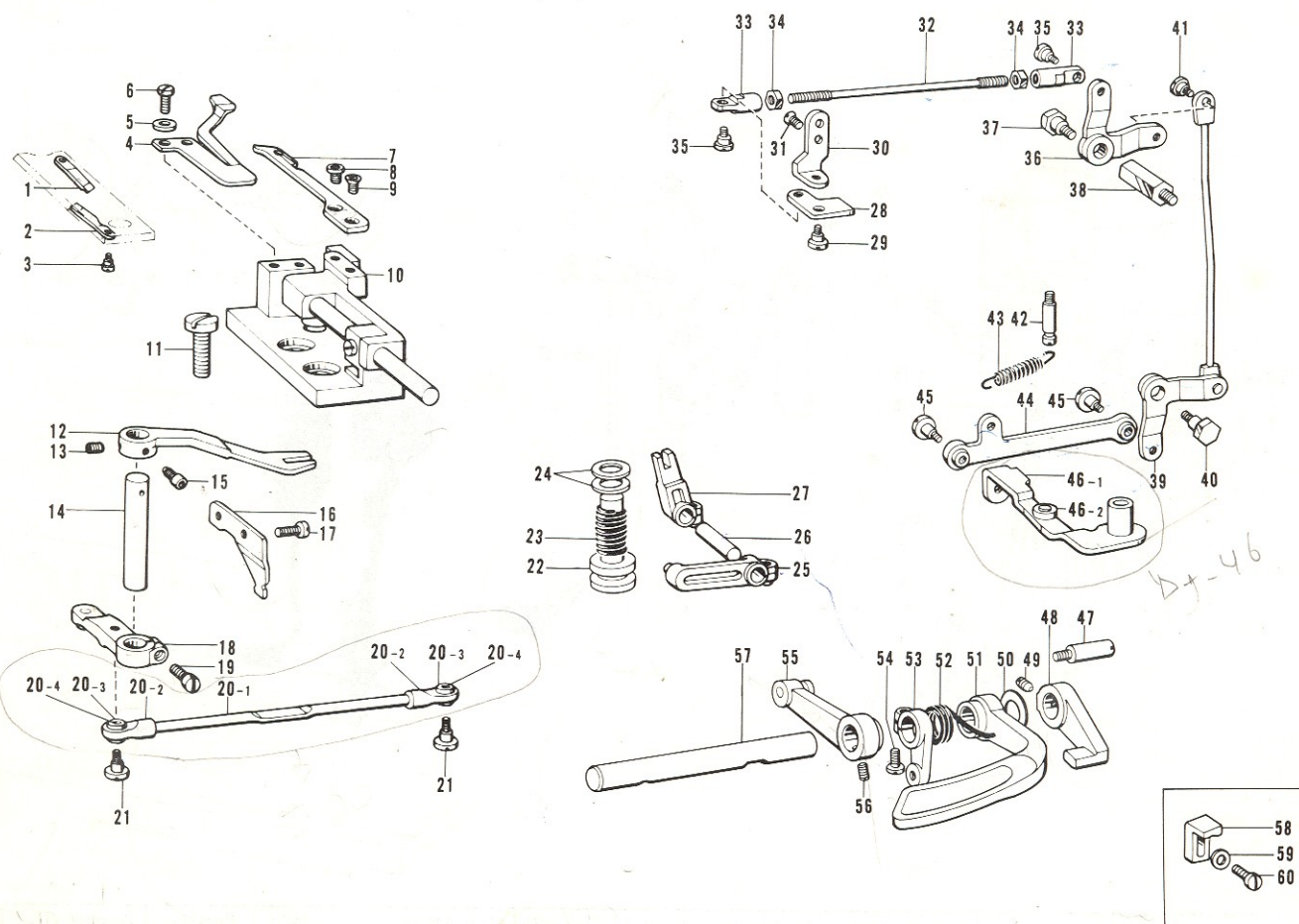
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
G- 1	Arm Thread Guide, Center	1			G-30	Oil Tube Supporter	1	148729-0-01	X
G- 2	Screw	1	108960-0-04		G-31	Felt	1	148732-0-01	X
G- 3	Thread Guide Assembly	1			G-32	Knee Lifter Assembly	1		
G- 4	Cover	1	148614-0-01	X	G-33- 1	Upper Thread Tension Plate	1		
G- 5	Screw	2	149288-0-01		G-33- 2	Pin	3		
G- 6	Tube Holder		142268-0-01		G-33- 3	Pin	2		
G- 7	Screw		009670-6-12		G-33- 4	Tension Stud	2		
G- 8	Cord Holder	1			G-33- 5	Spring Guide	2	108254-0-01	
G- 9	Screw	2			G-33- 6	Screw	1	144682-0-01	
G-10	Bed Leg	2	148611-0-01	X	G-33- 7	Tension Control Nut	3	108265-0-01	
G-11	Bed Leg Small	1	149179-0-01	X	G-33- 8	Thread Take-up Spring	1	144681-0-01	
G-12	Slide Plate, Left	1	112606-0-01		G-33- 9	Tension Stud	1	144680-0-01	
G-13	Slide Plate Front Assembly	1	148599-0-01	X	G-33-10	Tension Release Plate	1	144683-0-01	
G-14	Pipe	1	148604-0-00	X	G-33-11	Arm Thread Guide Upper	1	118320-0-01	
G-15	Tension Release Bar	1	148610-0-01	X	G-33-12	Screw	2	112712-0-01	
G-16	Oil Tube	1	148730-0-01	X	G-33-13	Tension Spring	2	144683-0-01	
G-17	Wick	1	148731-0-00	X	G-33-14	Tension Disc Washer	2	148669-0-01	
G-18	Oil Tube	1	148741-0-01	X	G-33-15	Tension Disc	4	108263-0-01	
G-19	Wick	1	148742-0-00	X	G-33-16	Tension Release Pin	1	148671-0-01	
G-20	Oil Tube	1	148733-0-01	X	G-33-17	Tension Release Pin	1	148670-0-01	
G-21	Wick	1	148740-0-00	X	G-33-18	Adjusting Screw B	1	148665-0-01	
G-22	Oil Tube	1	148735-0-01	X	G-33-19	Thread Guide Screw B	1	148663-0-01	
G-23	Wick	1	148736-0-00	X	G-33-20	Adjusting Screw A	1	148664-0-01	
G-24	Oil Tube	1	148737-0-01	X	G-33-21	Thread Guide Screw A	1	148662-0-01	
G-25	Wick	1	148738-0-00	X	G-33-22	Thread Guide Spring	2	148668-0-01	
G-26	Oil Tube	1	148733-0-01	X	G-33-23	Thread Guide Disc	2	148667-0-01	
G-27	Wick	1	148734-0-00	X	G-33-24	Thread Guide Bracket	2	148666-0-01	
G-28	Tube Holder	1	112745-0-01	X	G-33-25	Nut	2	021670-1-02	
G-29	Screw	1	009670-5-12		G-34	Spring	1		

H. -400 • -500 Specification



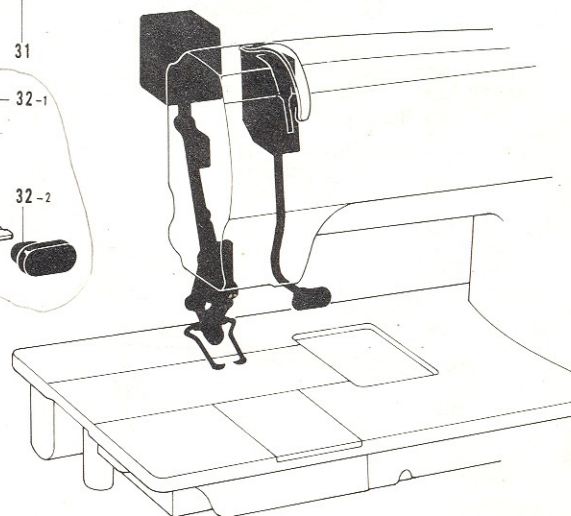
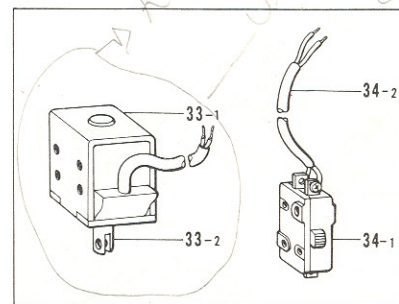
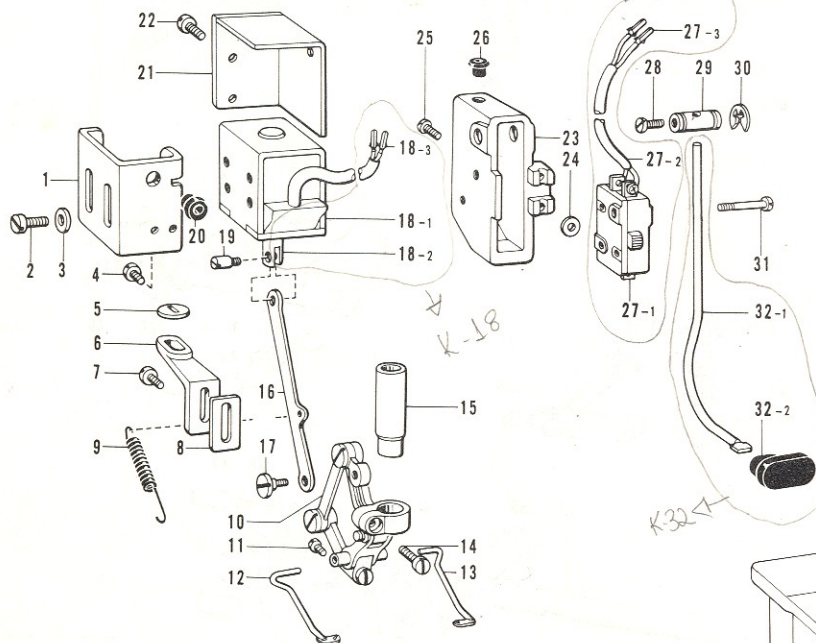
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
H- 1- 1	Needle Bar	1	148597-0-01	H-1 Needle Bar Rock Shaft Assembly 148595-1-01	H-15-1	Level Feed Connecting Rod	1	148496-0-00	H-15 Level Feed Connecting Rod Assembly 148801-0-01
H- 1- 2	Needle Bar Clamp	1	112592-0-01		H-15-2	Needle Bearing	1	118954-0-00	
H- 1- 3	Screw	1	009670-8-12		H-15-3	Level Feed Connecting Link	1	143613-0-01	
H- 1- 4	Needle Bar Clank Rod	1	112593-0-01		H-16	Feed Bar	1	148490-0-01	✓
H- 1- 5	Needle Bar Guide Slide Block	1	112721-0-01		H-17	Feed Bar Shaft	1	148491-0-01	
H- 1- 6	Needle Bar Support	1	148596-1-00		H-18	Feed Rock Shaft	1	148492-0-01	✗
H- 1- 7	Needle Bar Guide Plate	2	112590-0-01		H-19	Spring	1	148726-0-01	
H- 1- 8	Screw	4	102731-0-04		H-20	Bobbin	2	148603-0-01	✗
H- 1- 9	Needle Bar Rock Shaft	1	112588-0-01		H-21	Bobbin Tension Spring	2		
H- 1-10	Pin	1	107030-0-01		H-22-1	Outer Rotary Hook Assembly	2		H-22 Rotary Hook
H- 2	Needle Bar Indicator	1	148598-0-01	H-4 Presser Bar Guide 148835-0-01	H-22-1-1	Screw	4	151028-0-01	H-22-2 Inner Rotary Hook Assembly
H- 3	Screw	1	105288-0-01		H-22-2-1	Adjusting Spring	2	151145-0-01	
H- 4- 1	Presser Bar Guide	1			H-22-2-2	Screw	2	151029-0-01	
H- 4- 2	Screw	1	009680-7-12	✓	H-22-2-3	Screw	2	151030-0-01	
H- 5	Collar	1	148605-0-01	✓	H-23	Spacer 0.6	2	148727-0-01	✓
H- 6	Knee Lifter Lever	1	148486-0-01	✓	H-23	Spacer 0.4	4	148819-0-01	✓
H- 7	Knee Lifter Connecting Rod	1	148484-0-01	✓	H-24	Rotary Hook Base Left	1	148481-0-01	✗
H- 8	Pulley	1	148619-0-01	✓	H-25	Oil Gauge	2	148728-0-01	✓
H- 9	Pulley	1	149062-0-01	✓	H-26	Rotary Hook Base Right	1	148480-0-01	✓
H-10	Washer	2	125770-232	✓	H-27-1	Timing Belt Wheel Lower	1		H-27 Timing Belt Pulley Lower Assembly
H-11	Bolt	2	141569-0-01	✗	H-27-2	Side Ring	1		
H-12	Lower Shaft	1	148505-0-01	✗	H-28	Screw	1	148821-0-01	✓
H-13- 1	Vertical Feed Eccentric Wheel	1	148607-0-01	H-13 Vertical Feed Eccentric Wheel Assembly					
H-13- 2	Screw	1	112684-0-01	✓					

J. -400 • -500 Specification



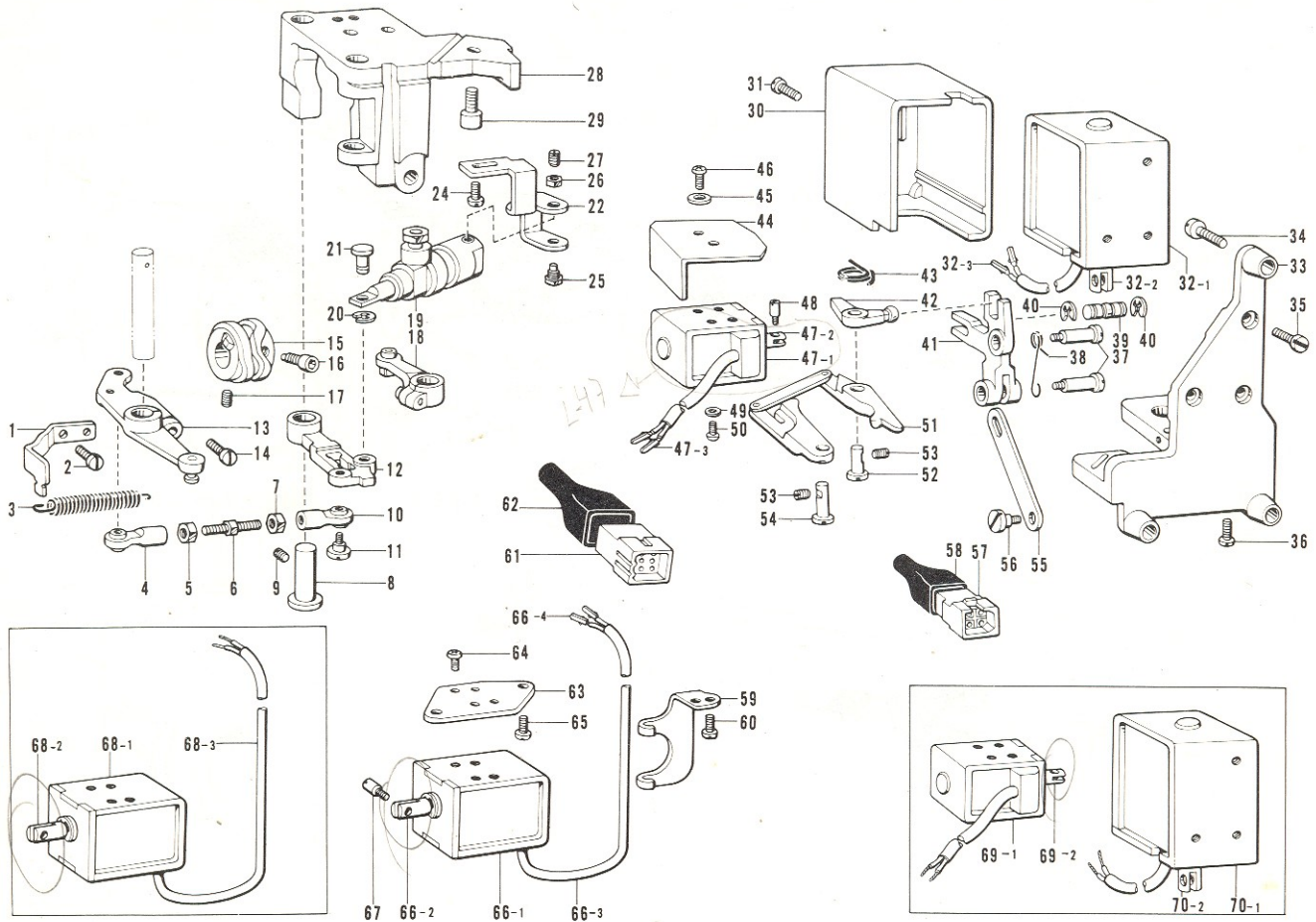
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
J- 1	Fixed Knife Right	1	149169-0-01		J-30	Tension Release Plate	1	148634-0-01	X
J- 2	Fixed Knife Left	1	148538-0-01		J-31	Screw	2	117160-0-01	
J- 3	Stud Screw	2	148539-0-01	X	J-32	Tension Release Rod Upper	1	148631-0-01	X
J- 4	Thread Presser Spring	2			J-33	Joint	2	148632-0-01	X
J- 5	Washer	4	025630-1-32	X	J-34	Nut	2	021670-1-02	
J- 6	Screw	4	001630-4-02		J-35	Stud Screw	2	148768-0-01	X
J- 7	Movable Knife	2	148535-0-01		J-36	Tension Release Crank Upper	1	148630-0-01	X
J- 8	Screw	2	148536-0-01		J-37	Screw	1	148628-0-01	X
J- 9	Screw	2	148537-0-01		J-38	Stud	1	148629-0-01	X
J-10	Movable Knife Base Assembly	2	148531-0-01		J-39	Tension Release Crank Lower	1	148625-0-01	X
J-11	Screw	4	009710-8-12		J-40	Screw	1	148628-0-01	X
J-12	Knife Rock Arm	2	148572-0-01	X	J-41	Screw	1	110171-0-01	X
J-13	Screw	2	014770-6-22		J-42	Spring Hanger	1	115177-0-01	
J-14	Knife Rock Arm Shaft	2	148573-0-01		J-43	Spring	1	148654-0-01	
J-15	Screw	2	148574-0-01	X	J-44	Tension Release Connecting Rod Lower	1	148623-0-01	
J-16	Spring Hook Left	1	148580-0-01		J-45	Stud Screw	2	123882-0-01	X
J-17	Screw	2	009711-0-12	X	J-46-1	Tension Release Rock Lever	1	148624-0-01	
J-18	Knife Rock Lever Left	1	148577-0-01		J-46-2	Tension Release Roller Stud Assembly	1	148625-0-01	
J-19	Screw	1	009711-4-12		J-47	Screw	1	141748-0-01	
J-20-1	Knife Connecting Bar	1		J-20	J-48	Reverse Lever B	1	148607-0-01	
J-20-2	Joint	2	148584-0-01	Connecting Rod	J-49	Screw	1	015771-0-12	
J-20-3	Bushing	2		148585-0-01	J-50	Thrust Ring	1	149554-0-01	
J-20-4	Pin	2			J-51	Reverse Lever B	1	148606-0-01	
J-21	Screw	2	141494-0-01		J-52	Spring	1	148608-0-01	X
J-22	Knife Main Lever Shaft	1	148547-0-01		J-53	Reverse Lever Shaft Arm	1	148640-0-01	X
J-23	Spring	1	148555-0-01		J-54	Screw	1	009711-4-12	
J-24	Rubber	2	148559-0-00	X	J-55	Feed Regulator Link	1	148638-0-01	
J-25	Knife Driving Pin Lever	1	181712-0-01		J-56	Screw	1	014760-6-22	
J-26	Knife Driving Lever Shaft	1	148557-0-01		J-57	Reverse Lever Shaft	1	148609-0-01	X
J-27	Knife Driving	1	181713-0-01		J-58	Stopper	1	149282-0-01	
J-28	Tension Release Crank	1	148635-0-01	X	J-59	Washer	1	148645-0-01	
J-29	Screw	1	148633-0-01		J-60	Screw	1	009681-0-01	

K. Thread Wiper, Reverse Switch Mechanism -400 • -500 Specification



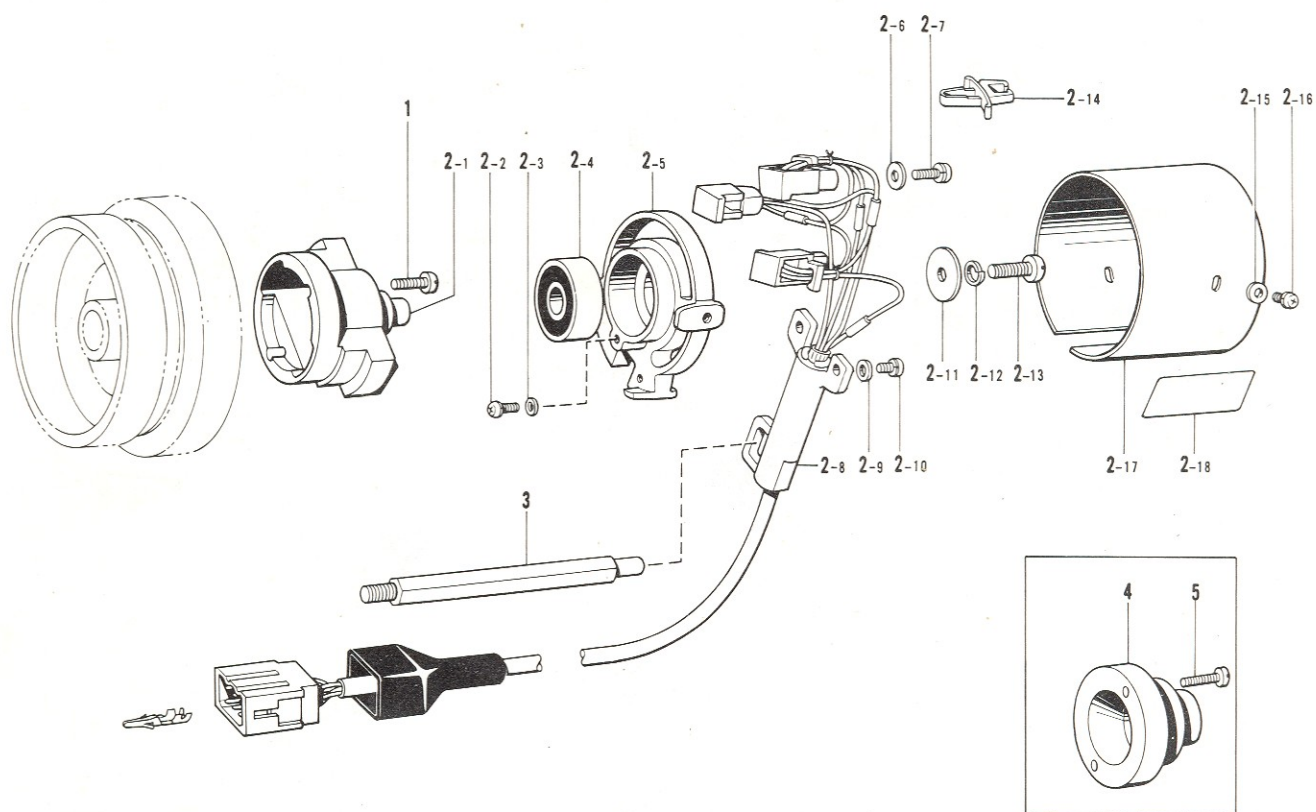
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K- 1	Solenoid Bracket	1	148513-0-01	OK	K-20	Bushing	1	146080-0-00	
K- 2	Screw	4	007401-0-13		K-21	Solenoid Cover	1	148514-0-01	
K- 3	Washer	4	025040-2-33		K-22	Screw	3	009679-3-12	
K- 4	Screw	2	107407-0-03		K-23	Micro Switch Base	1	146120-0-01	
K- 5	Stopper	1	148518-0-00	X	K-24	Washer	2	403616-0-01	X
K- 6	Stopper	1	148516-0-01	OK	K-25	Screw	2	009671-0-12	
K- 7	Screw	2	107407-0-03		K-26	Bushing	1	146080-0-00	
K- 8	Stopper	1	148517-0-00	X	K-27-1	Micro Switch	1		K-27 Switch 146121-0-00
K- 9	Spring	1		X	K-27-2	Reverse Switch Cord	1		
K-10	Thread Wiper Link	1	148770-0-01		K-27-3	Terminal Pin	2	143549-0-00	
K-11	Screw	2	149177-0-01	X	K-28	Screw	1	009681-4-14	
K-12	Thread Wiper Left	1	148530-0-01	X	K-29	Actuator Pin	1	146125-0-01	
K-13	Thread Wiper Right	1	148529-0-01	X	K-30	Stop Ring	2	048080-3-42	
K-14	Screw	1	009711-4-13		K-31	Screw	2	146124-0-01	
K-15	Presser Bar Bushing Lower	1	148508-0-01		K-32-1	Actuator Bar	1	148613-0-01	K-32 Actuator Assembly 148612-0-01
K-16	Solenoid Link	1	148515-0-01	OK	K-32-2	Actuator	1	146128-0-00	
K-17	Screw	1	148521-0-01		K-33-1	Solenoid	1		K-33 Thread Wiper Solenoid
K-18-1	Solenoid	1		K-18 Thread Wiper Solenoid	K-33-2	Plunger	1	148511-0-01	
K-18-2	Plunger	1	148511-0-01		K-34-1	Micro Switch	1		K-34 Switch
K-18-3	Terminal Pin	2	143549-0-00	X	K-34-2	Reverse Switch Cord	1		
K-19	Plunger Pin	1	148546-0-01	X					

L. -400 • Specification



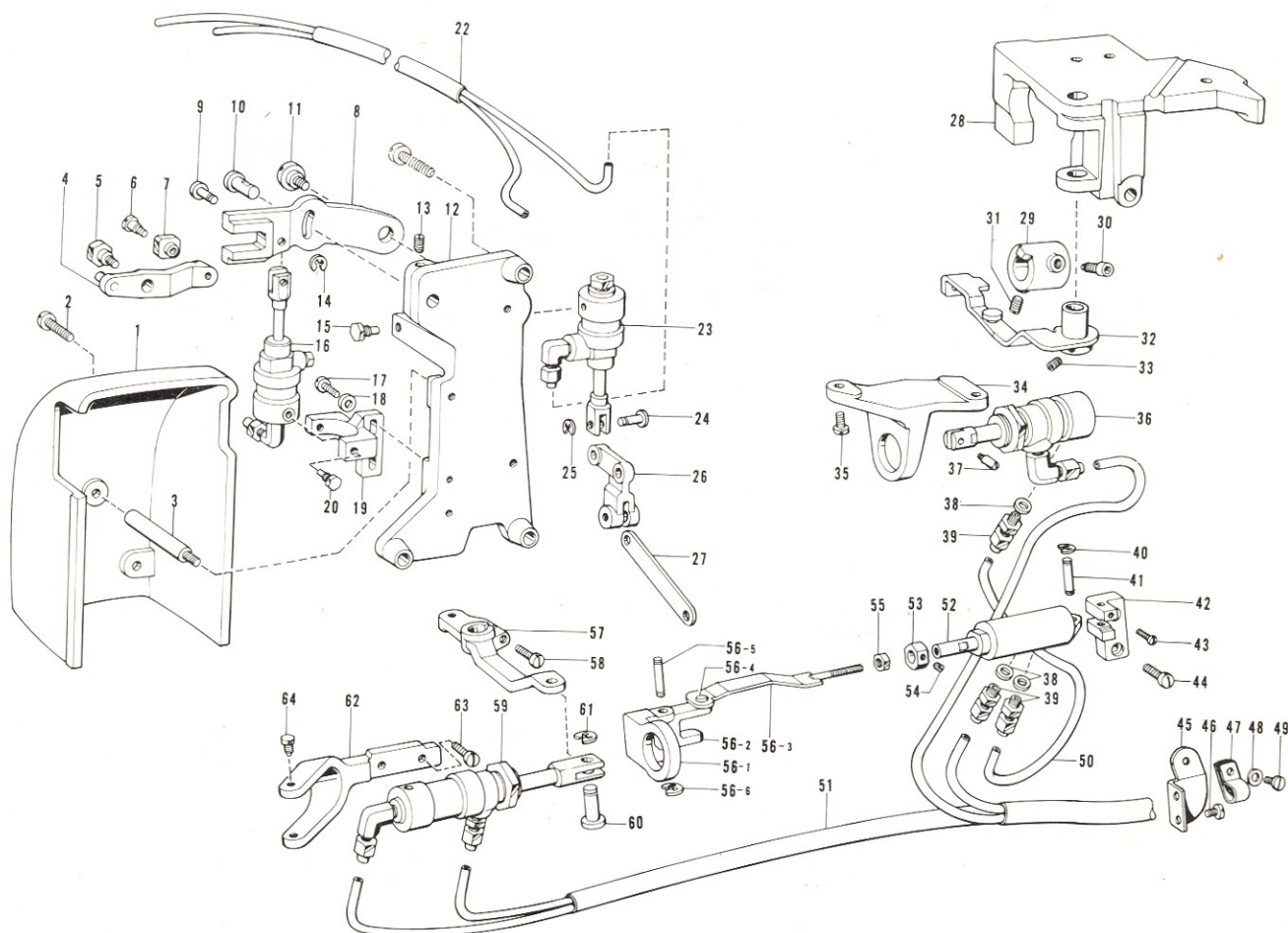
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
L- 1	Spring Rock Right	1	148579-0-01		L-40	Stop Ring	2	048040-3-42	
L- 2	Screw	2	009711-0-12		L-41	Reverse Crank	1	148642-0-01	OK
L- 3	Spring				L-42	Stopper Lever	1	148765-0-01	
L- 4	Joint Screw	1	148589-0-01		L-43	Spring	1	148653-0-01	
L- 5	Nut	1	100022-0-05		L-44	Solenoid Cover	1	148744-0-01	
L- 6	Connecting Screw	1	148591-0-01		L-45	Washer	2	025030-2-32	
L- 7	Nut	1	148592-0-01		L-46	Screw	2	002300-5-05	
L- 8	Knife Sub Lever Shaft	1	148554-0-01		L-47-1	Solenoid	1		L-47 148648-0-01
L- 9	Screw	1	100289-0-03		L-47-2	Plunger	1	148650-0-01	Solenoid Assembly OK
L-10	Joint Right	1	148587-0-01		L-47-3	Terminal Pin	2	143549-0-00	OK
L-11	Screw	2	141494-0-01		L-48	Plunger Pin	1	148651-0-01	
L-12	Knife Sub Lever	1	148553-0-01		L-49	Washer	4	025030-2-33	
L-13	Knife Rock Lever Right	1	148575-0-01		L-50	Screw	4	002300-6-03	
L-14	Screw	1	009711-4-12		L-51	Stopper	1	148763-0-01	
L-15	Knife Driving Cam	1	148554-0-01	OK	L-52	Pin	1	118713-0-01	
L-16	Screw	1	148574-0-01		L-53	Screw	2	151602-0-02	
L-17	Screw	1	014770-6-22		L-54	Stopper (A) Shaft	1	148767-0-01	
L-18	Knife Main Lever	1	148548-0-01		L-55	Reverse Link	1	148641-0-01	OK
L-19	Damper	1	148562-0-01		L-56	Screw	1	110171-0-01	X
L-20	Stop Ring	1	048030-3-42		L-57	6p Connector	1	146118-0-00	OK
L-21	Damper Stud	1	148567-0-01		L-58	Connector Cap	1	145596-0-00	OK
L-22	Cylinder Holder	1	148568-0-01		L-59	Cord Holder	1	148655-0-01	OK
L-24	Screw	2	009781-4-12		L-60	Screw	2	009710-8-12	
L-25	Screw	2	140620-0-01		L-61	Nylon Connector	1	145681-0-01	OK
L-26	Nut	1	100078-0-03		L-62	Connector Cap	1	146119-0-01	OK
L-27	Screw	1	011802-0-12		L-63	Solenoid Bracket	1	148561-0-01	OK
L-28	Movable Knife Base Bracket	1	148482-0-01		L-64	Screw	4	002400-8-03	X
L-29	Bolt	3			L-65	Screw	2	009711-0-12	X
L-30	Solenoid Cover	1	148560-0-01		L-66-1	Thread Trimmer Solenoid	1		
L-31	Screw	1	007500-6-02		L-66-2	Plunger	1	148545-0-01	L-66 Thread Trimmer Solenoid Assembly
L-32-1	Solenoid	1			L-66-3	Solenoid Cord	1		
L-32-2	Plunger	1	148637-0-01	L-32 Reverse Solenoid Assembly	L-66-4	Terminal Pin	2	143549-0-00	
L-32-3	Terminal Pin	2	143549-0-00		L-67	Plunger Pin	1	148546-0-01	
L-33	Reverse Solenoid Bracket	1	148643-0-01		L-68-1	Thread Trimmer Solenoid	1		L-68 Thread Trimmer Solenoid Assembly
L-34	Screw	3			L-68-2	Plunger	1	148545-0-01	
L-35	Screw	3	007500-8-02		L-68-3	Solenoid Cord	1		
L-36	Screw	1	107419-0-02		L-69-1	Solenoid	1		L-69 Solenoid Assembly
L-37	Screw	2	148562-0-01		L-69-2	Plunger	1	148650-0-01	
L-38	Spring	1	148652-0-01		L-70-1	Solenoid	1		L-70 Reverse Solenoid Assembly
L-39	Connecting Pin	1	149174-0-01		L-70-2	Plunger	1	148637-0-01	

M. Synchronizer Mechanism -400 Specification



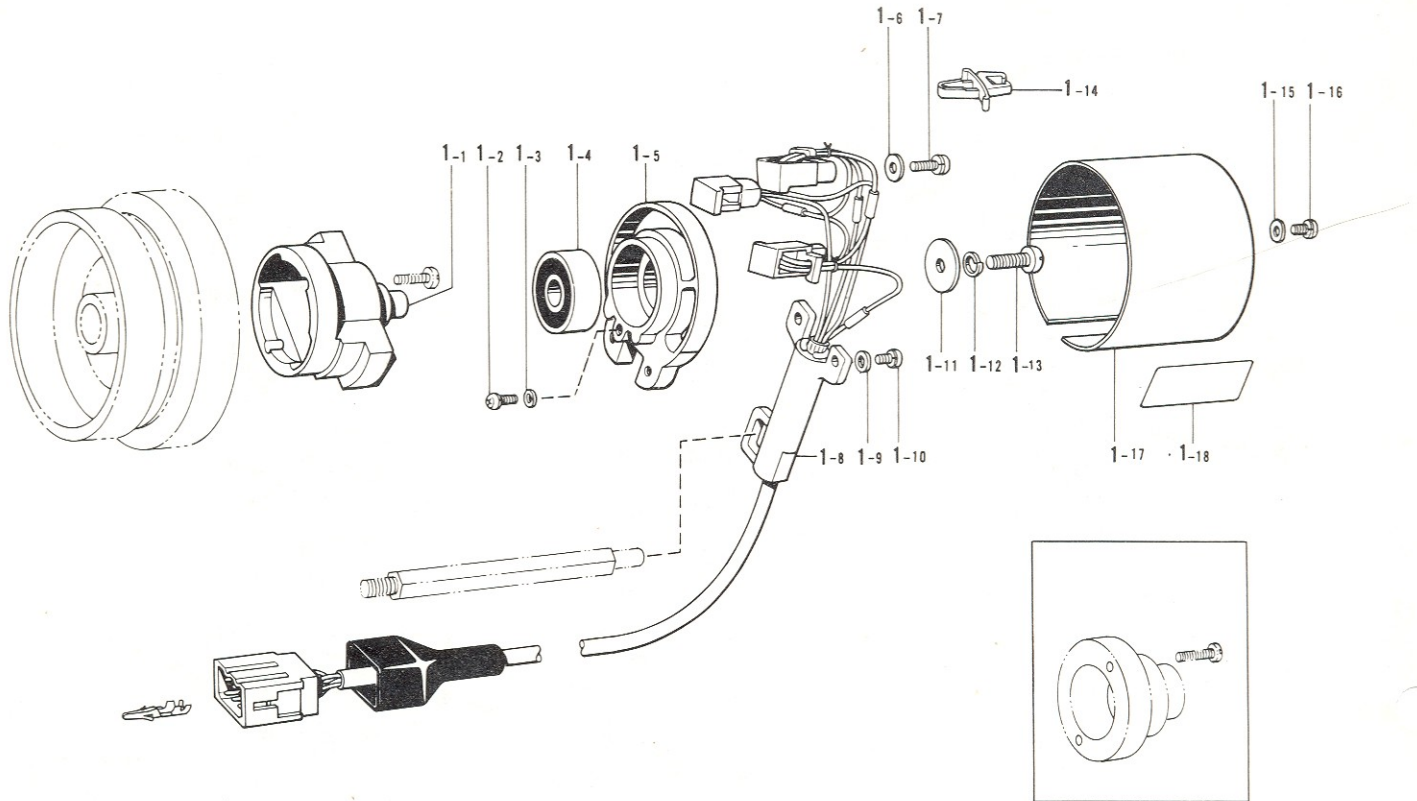
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
M-1	Screw	2	009711-412	OK	M-2-11	Washer	1	025060-3-35	M-2 Synchronizer Assembly #4
M-2- 1	Magnet Stud	1			M-2-12	Washer	1	028060 2-34	
M-2- 2	Screw	1	215083-0-01		M-2-13	Screw	1	216880-0-01	
M-2- 3	Washer	1	025030-3-35		M-2-14	Cord Holder	1		
M-2- 4	Ball Bearing	1			M-2-15	Washer	2	025040-1-35	
M-2- 5	Synchronizer Holder	1			M-2-16	Screw	2	215080-0-01	
M-2- 6	Washer	3	025040-3-35		M-2-17	Synchronizer Cover	1		
M-2- 7	Screw	3	217093-0-01		M-2-18	Label	1		
M-2- 8	Hole I.C with Cord	1			M-3	Synchronizer Holder Stud	1	148615 0-01	OK
M-2- 9	Washer	2	025040-1-35		M-4	Slip Ring Support	1	148805-0-01	
M-2-10	Screw	2	215080-0-01		M-5	Screw	2		009711-412

N. Thread Trimmer and Tension Release Mechanism -500 Specification



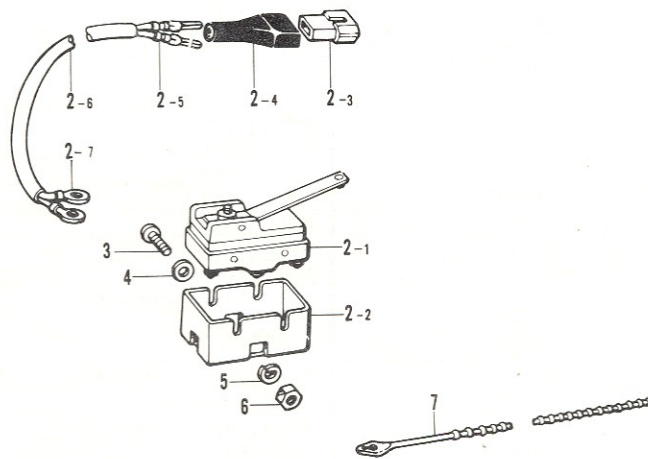
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
N- 1	Cylinder Cover	1	149035-0-01	✓	N-36	Tension Release Cylinder	1	149043-0-01	✓
N- 2	Screw	2	009711-2-12	✓	N-37	Plunger Pin	1	148546-0-01	✓
N- 3	Cylinder Cover Stud	2	149034-0-01	✓	N-38	Packing	3	146699-0-00	✓
N- 4	Lever Assembly	1	149027-0-01	✓	N-39	Male Connector Assembly	3	149241-0-01	✓
N- 5	Stud Screw	1	149991-0-01	✓	N-40	Stop Ring	1	048030-3-42	✓
N- 6	Screw	1	141494-0-01	✓	N-41	Stud	1	149056-0-01	✓
N- 7	Slide Block Assembly	1	149025-0-01	✓	N-42	Cylinder Supporter	1	149055-0-01	✓
N- 8	Presser Foot Lifter Lever	1	149024-0-01	✓	N-43	Screw	1	009660-7-12	✓
N- 9	Pin	1	146153-0-01	✓	N-44	Screw	2	105173-0-04	✓
N-10	Pin	1	118713-0-01	✓	N-45	Tube Holder	1	149286-0-01	✓
N-11	Screw	1	141439-0-01	✓	N-46	Screw	2	009670-8-12	✓
N-12	Cylinder Base	1	149030-0-01	✓	N-47	Nylon Clamp	1	149287-0-00	✓
N-13	Screw	1	013710-7-12	✓	N-48	Washer	1	105161-0-02	✓
N-14	Stop Ring	1	048040-3-42	✓	N-49	Screw	1	009670-8-12	✓
N-15	Screw	2	140620-0-01	✓	N-50	Air Tube	1	149283-0-00	✓
N-16	Presser Foot Lifter Cylinder	1	149019-0-01	✓	N-51	Air Tube Assembly	1	149284-0-01	✓
N-17	Screw	2	009711-6-12	✓	N-52	Transfer Cylinder	1	149052-0-01	✓
N-18	Washer	2	025710-2-32	✓	N-53	Transfer Cylinder Nut	1	149281-0-01	✓
N-19	Cylinder Supporter	1	149023-0-01	✓	N-54	Screw	1	117666-0-01	✓
N-20	Screw	2	140620-0-01	✓	N-55	Nut	1	021670-1-02	✓
N-22	Air Tube Assembly	1	149285-0-01	✓	N-56-1	Transfer Lever Supporter	1	N-56 Transfer Lever Assembly 149058-0-01	✓
N-23	Reverse	1	149031-0-01	✓	N-56-2	Transfer Lever	1		
N-24	Pin	1	146153-0-01	✓	N-56-3	Transfer Connecting Rod	1		
N-25	Stop Ring	1	048040-3-42	✓	N-56-4	Pin	1		
N-26	Reverse Link Lever	1	149033-0-01	✓	N-56-5	Stud	1		
N-27	Reverse Link	1	149063-0-01	✓	N-56-6	Stop Ring	2	048030-3-42	✓
N-28	Movable Knife Base Bracket	1	149036-0-01	✓	N-57	Thread Trimming Lever	1	149042-0-01	✓
N-29	Tension Release Cam	1	149061-0-01	✓	N-58	Screw	1	009711-4-12	✓
N-30	Screw	1	148574-0-01	✓	N-59	Thread Trimming Cylinder	1	149037-0-01	✓
N-31	Screw	1	014770-6-22	✓	N-60	Pin	1	146153-0-01	✓
N-32	Tension Release Lever	1	149050-0-01	✓	N-61	Stop Ring	1	048040-3-42	✓
N-33	Screw	2	014770-6-22	✓	N-62	Cylinder Supporter	1	149040-0-01	✓
N-34	Tension Release Cylinder Base	1	149049-0-01	✓	N-63	Screw	2	009711-6-12	✓
N-35	Screw	2	009711-0-12	✓	N-64	Screw	2	140620-0-01	✓

P. Synchronizer Mechanism -500 Specification



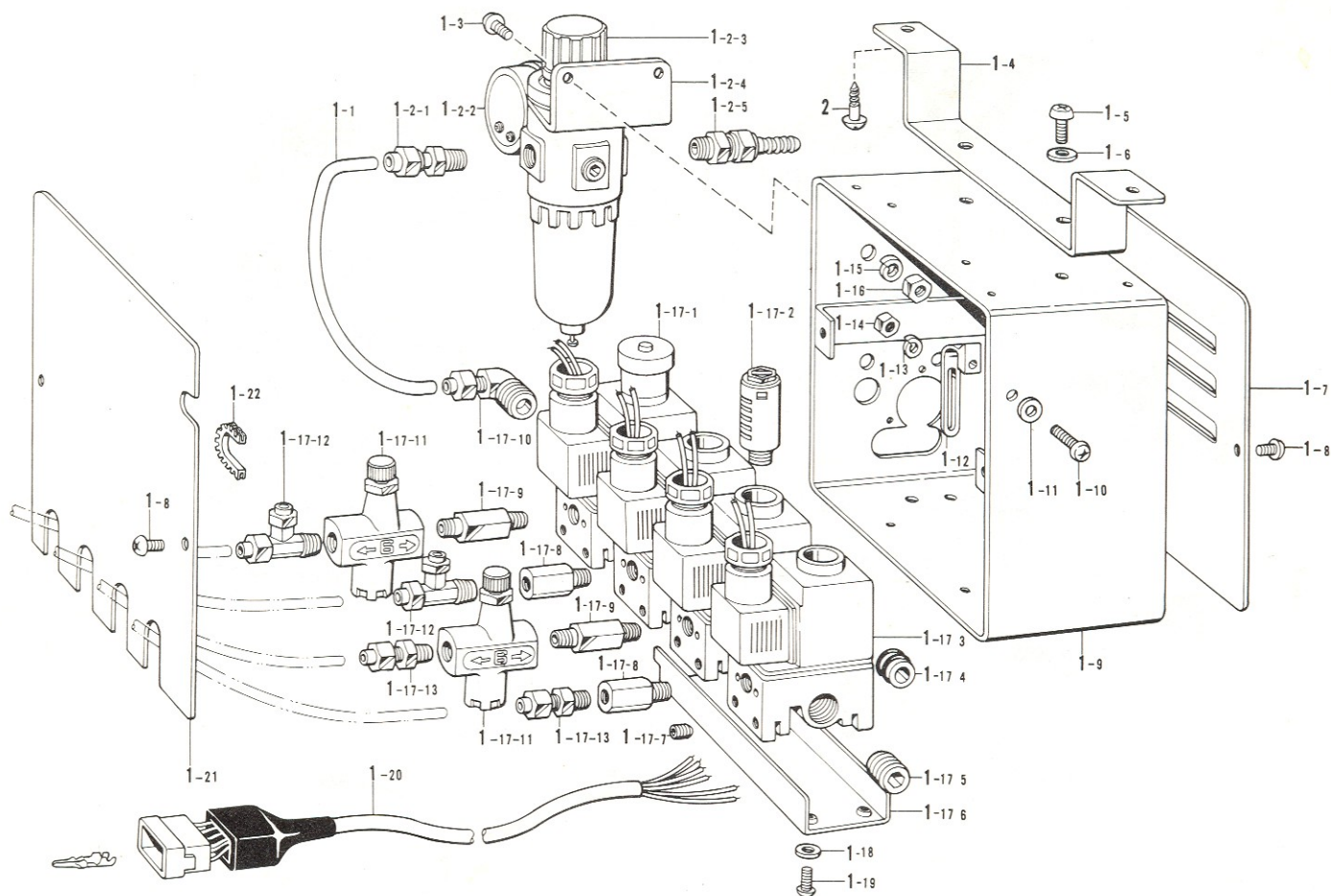
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
P-1-1	Magnet Stud	1		P-1 Synchronizer Assembly #6	P-1-10	Screw	2	215080-0-01	P-1 Synchronizer Assembly #6
P-1-2	Screw	1	215083-0-01		P-1-11	Washer	1	025060-3-35	
P-1-3	Washer	1	025030-3-35		P-1-12	Washer	1	028060-2-34	
P-1-4	Ball Bearing	1			P-1-13	Screw	1	216880-0-01	
P-1-5	Synchronizer Holder #3	1			P-1-14	Cord Holder	1		
P-1-6	Washer	3	025040-3-35		P-1-15	Washer	2	025040-1-35	
P-1-7	Screw	3	217093-0-01		P-1-16	Screw	2	215080-0-01	
P-1-8	Hole I.C. with Cord	1			P-1-17	Synchronizer Cover	1		
P-1-9	Screw	2	025040-1-35		P-1-18	Label	1		

R. Presser Foot Lifter Cord Mechanism -500 Specification



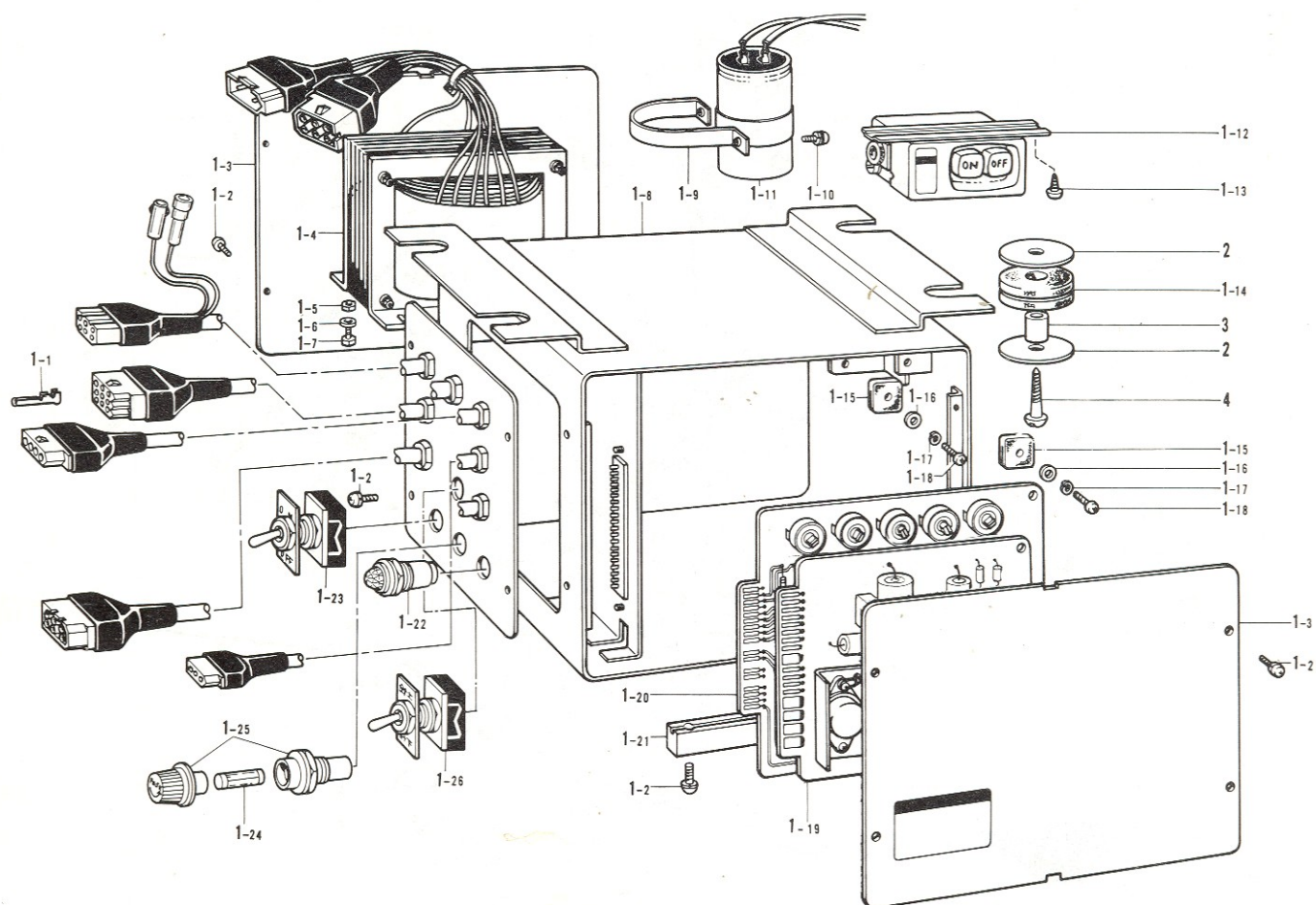
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
R-2-1	Micro Switch	1	140948-0-01	R-2 Presser Foot Lifter Cord Assembly	R-2-7	Terminal	2	140693-0-00	
R-2-2	Cover	1	140950-0-00		R-3	Screw	2	002303-0-06	
R-2-3	Nylon Connector	1	143488-0-01		R-4	Washer	2	025030-2-33	
R-2-4	Connector Cap	1	143489-0-01		R-5	Washer	2	028030-2-43	
R-2-5	Terminal Pin	2	143549-0-00		R-6	Nut	2	021300-1-03	
R-2-6	Presser Foot Lifter Cord	1			R-7	Bead Band	1	144189-0-01	

Q. Control Bok Mechanism -500 Specification



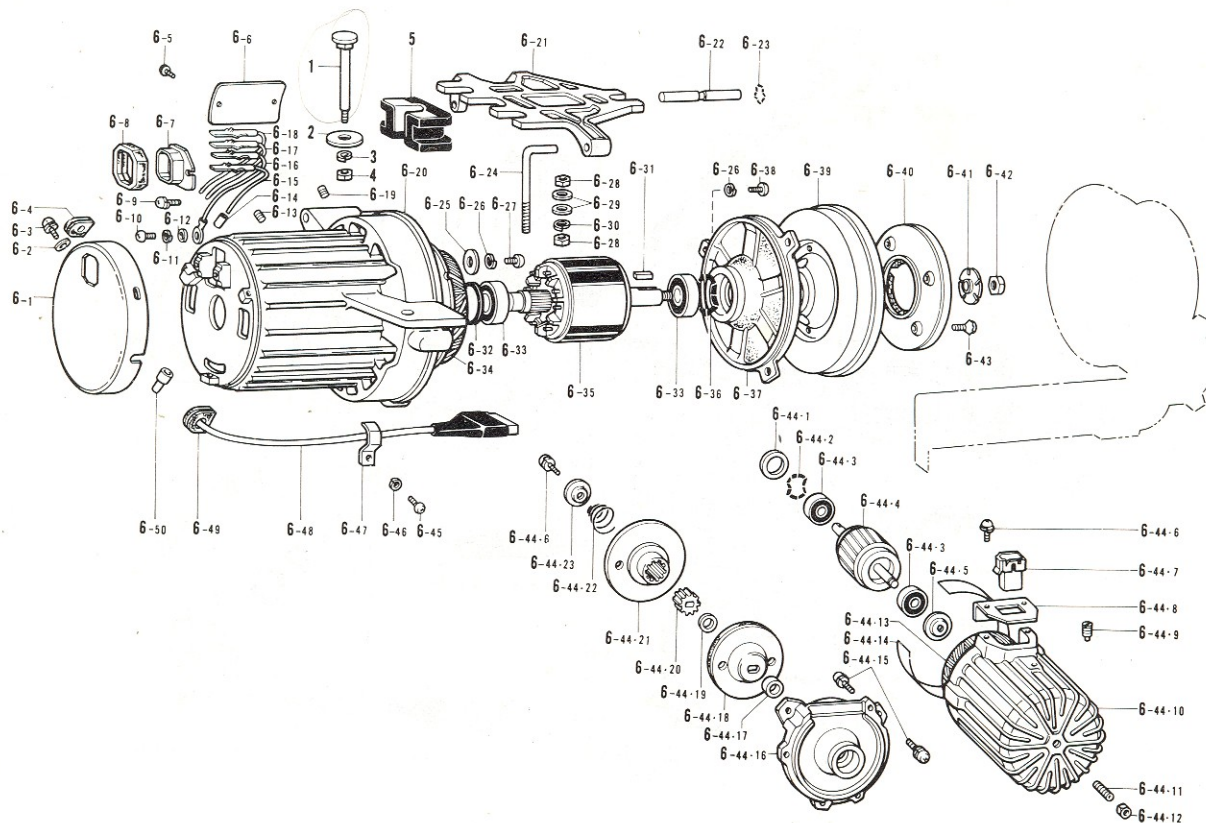
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
Q-1- 1	Air Tube	1	140540-0-00	Q-1-2 Air Unit Assembly 143959-1-04	Q-1-17- 1	Solenoid Valve	1	149156-0-01	Q-1-17 Solenoid Valve Assembly 149155-0-01
Q-1- 2-1	1/4" Connector Assembly	1	142349-0-00		Q-1-17- 2	Silencer	3	140682-0-01	
Q-1- 2-2	Presser Gauge	1			Q-1-17- 3	Solenoid Valve	3	145827-0-01	
Q-1- 2-3	Valve	1	143960-1-01		Q-1-17- 4	Bushing with O Ring	3	140680-0-00	
Q-1- 2-4	Air Unit Holder Plate	1			Q-1-17- 5	1/4" Cap	1	140542-0-01	
Q-1- 2-5	Air Tube Connector	1	140678-0-00	Q-1 Valve Box Assembly	Q-1-17- 6	Solenoid Valve Base	1	149157-0-01	
Q-1- 3	Screw	2	002501-0-64		Q-1-17- 7	Screw	16	061500-8-22	
Q-1- 4	Air Control Box Base	1	148968-0-01		Q-1-17- 8	Valve Connector	2	140539-0-00	
Q-1- 5	Screw	2	002501-0-64		Q-1-17- 9	Speed Control Connector	2	142037-0-00	
Q-1- 6	Washer	2	025050-1-34		Q-1-17-10	1/4" Elbow	1	140538-0-00	
Q-1- 7	Face Cover	1			Q-1-17-11	Speed Connector	2	142038-0-01	
Q-1- 8	Screw	4	008400-5-64		Q-1-17-12	Air Tube Connector	2	140544-0-00	
Q-1- 9	Valve Box	1			Q-1-17-13	1/8" Connector	2	140543-0-00	
Q-1-10	Screw	1	002301-0-03		Q-1-18	Washer	4	025040-2-33	
Q-1-12	Washer	1	025030-1-33		Q-1-19	Screw	4	002400-8-03	
Q-1-11	Cord Holder	1	144910-0-01		Q-1-20	Valve Cord Assembly	1	149290-0-01	
Q-1-13	Washer	1	028030-2-43		Q-1-21	Rear Cover	1		
Q-1-14	Nut	1	021300-1-03		Q-1-22	Nylon Bushing	1	146171-0-00	
Q-1-15	Washer	2	028050-2-43		Q-2	Screw	2	100666-0-02	
Q-1-16	Nut	3	021500-1-63						

S. Control Box Mechanism -400 • -500 Specification



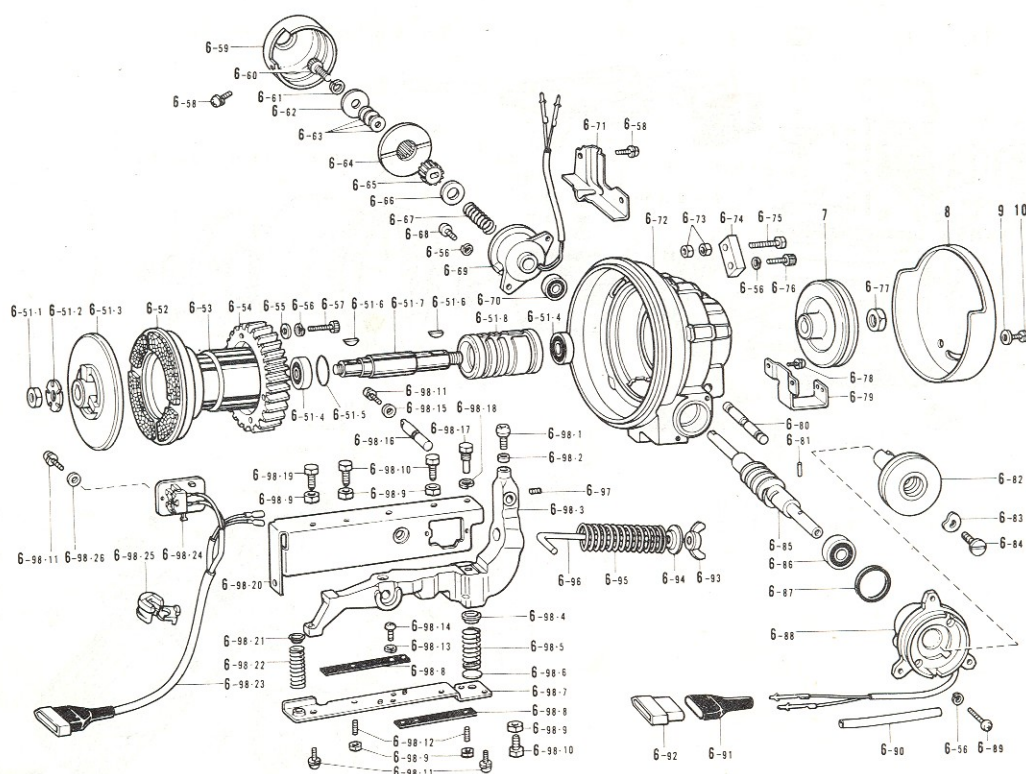
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
S-1- 1	Terminal Pin	22	216373-0-01	S-1 Control Box Assembly	S-1-17	Washer	1	028030-2-43	S-1 Control Box Assembly
S-1- 2	Screw	8	215080-0-01		S-1-18	Screw	2	002300-8-05	
S-1- 3	Control Box Front Cover Plate	2	216342-0-01		S-1-19	Printed Circuit Board	1	219212-0-00	
S-1- 4	Transformer	1			S-1-20	Printed Circuit Board	1	219211-0-00	
S-1- 5	Nut	4	218823-0-01		S-1-21	Mounting Rail	2	218821-0-01	
S-1- 6	Washer	4	025040-2-35		S-1-22	Pilot Lamp Switch	1	216364-0-00	
S-1- 7	Screw	4	216870-0-01		S-1-23	Pilot Lamp Switch	1	216905-0-01	
S-1- 8	Control Box	1			S-1-24	8A Fuse	1	219225-0-00	
S-1-12	3p Push Button Switch	1	213794-0-01		S-1-25	Fuse Holder	1	215387-0-01	
S-1-13	Screw	2	031451-6-03		S-1-26	Switch	1	219214-0-01	
S-1-14	Cushion Rubber	4	216345-0-00		S-2	Washer	8	214344-0-01	
S-1-15	Insulator Rubber	1	216351-0-01		S-3	Collar	4	216346-0-01	
S-1-16	Washer	2	025030-3-35		S-4	Screw	4	031624-0-05	

T. Motor (Part 1) -400 •-500 Specification



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
T-1	Bolt	3	210973-0-01		T-6-35	Roter	1	213802-0-01	T-6 Motor Assembly
T-2	Washer	3	213650-0-01		T-6-36	Washer	1	206156-0-01	
T-3	Washer	3	028080-2-43		T-6-37	Bracket	1	218871-0-01	
T-4	Nut	3	021080-1-06		T-6-38	Screw	3	002501-6-05	
T-5	Vibration Absorbing Rubber	3	213646-0-01		T-6-39	Fly Wheel	1	218872-0-01	
T-6- 1	Frame Cover	1	218863-0-01		T-6-40	Clutch Lining #4	1	218873-0-00	
T-6- 2	Washer	3	025050-2-35		T-6-41	Washer	1	210941-0-02	
T-6- 3	Screw	3	211528-0-01		T-6-42	Nut	1	210942-0-02	
T-6- 4	Rubber Pad #72	1	218865-0-01		T-6-43	Screw	4	214897-0-01	
T-6- 5	Pin	2	200084-0-02		T-6-44- 1	Washer	2	218913-0-01	T-6-44 Sub Motor Assembly
T-6- 6	Model Plate	1			T-6-44- 2	Washer	3	218870-0-01	
T-6- 7	7P Socket	1	213748-0-01		T-6-44- 3	Bearing 608VV	2	072060-8-60	
T-6- 8	7P Socket Cover	1	218862-0-01		T-6-44- 4	Roter	1	218907-0-01	
T-6- 9	Screw	2	008400-8-06		T-6-44- 5	Roter Push Plate	1	218910-0-00	
T-6-10	Screw	1	002401-0-63		T-6-44- 6	Screw	3	215080-0-01	
T-6-11	Washer	1	028040-2-43		T-6-44- 7	3P Plug	1	216299-0-01	
T-6-12	Nut	1	025040-1-73		T-6-44- 8	Plug Set Plate	1	216300-0-01	
T-6-13	Screw	1	013080-8-13		T-6-44- 9	Screw	1	216286-0-01	
T-6-14	Vinyl Cap for Lead Wire	2	218951-0-01		T-6-44-10	Sed Motor Fram #55	1	218911-0-01	
T-6-15	Lead Wire (White)	2	218861-0-01		T-6-44-11	Screw	1	012061-8-22	
T-6-16	Lead Wire for Earth	1	213792-0-01		T-6-44-12	Nut	1	021060-3-05	
T-6-17	Lead Wire (Read)	1	218861-0-02		T-6-44-13	Stator	1	218914-0-00	
T-6-18	Lead Wire (Black)	1	218861-0-03		T-6-44-14	Insulator Paper	2	216284-0-00	
T-6-19	Screw	1	011060-6-13		T-6-44-15	Screw	3	211528-0-01	
T-6-20	Frame #54	1	218831-0-01		T-6-44-16	Bracket	1	218912-0-00	
T-6-21	Base	1	218874-0-01		T-6-44-17	Collar	1	218922-0-01	
T-6-22	Pin	1	218875-0-01		T-6-44-18	Clutch Plate	1	218916-0-01	
T-6-23	Washer	1	213765-0-01		T-6-44-19	Washer	1	218921-0-01	
T-6-24	Bolt Adjusting Rod	1	210965-0-01		T-6-44-20	Selation	1	217280-0-01	
T-6-25	Washer	3	213752-0-01		T-6-44-21	Round Plate	1	218918-0-01	
T-6-26	Spring Washer	6	028050-2-43		T-6-44-22	Spring	1	218919-0-01	
T-6-27	Screw	3	218905-0-01		T-6-44-23	Washer	1	218920-0-00	
T-6-28	Nut	2	021100-2-06		T-6-45	Screw	1	002500-8-06	
T-6-29	Washer	2	025100-2-36		T-6-46	Spring Washer	1	028050-2-43	
T-6-30	Washer	1	028100-2-43		T-6-47	Cord Holder	1	218866-0-01	
T-6-31	Key	1	210940-0-00		T-6-48	Plug for Sub Motor	1	218867-0-01	
T-6-32	Rubber Washer 708×35×40RU	1	210938-0-01		T-6-49	Rubber Pad #71	1	218864-0-01	
T-6-33	Bearing 6203VV	2	072620-3-60		T-6-50	Crimp Connector	3	217169-0-00	
T-6-34	Stator	1	218851-0-01						

T. Motor (Part 2) -400 • -500 Specification

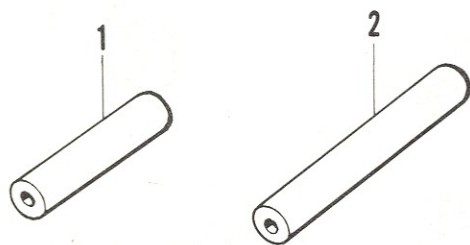


Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
T-6-51-1	Nut	1	210942-0-02	T-6-51 Clutch Plate #8 Assembly 218877-0-01	T-6-86	Bearing 6201 VV	1	072620-1-61	T-6 Motor Assembly
T-6-51-2	Washer	1	210941-0-02		T-6-87	Washer	1	216277-0-01	
T-6-51-3	Clutch Plate #6	1	213750-0-00		T-6-88	Clutch Solenoid	1	218903-0-01	
T-6-51-4	Bearing 620VV	2	072620-2-60		T-6-89	Screw	2	002503-5-05	
T-6-51-5	Washer	1	210948-0-01		T-6-90	Vinyl Tube	1	216837-0-01	
T-6-51-6	Key	2	210421-0-00		T-6-91	Plug Cover	1	216248-0-01	
T-6-51-7	Clutch Shaft	1	218878-0-00		T-6-92	4P Plug	1	216247-0-01	
T-6-51-8	Clutch Shaft Supporter	1	218879-0-01		T-6-93	Nut	1	206337-0-02	
T-6-52	Brake Lining	1	218882-0-00		T-6-94	Spring Cap	1	213760-0-01	
T-6-53	Supporter for Clutch Shaft Supporter	1	290439-0-00		T-6-95	Spring	1	218929-0-01	
T-6-54	Gear 1/21	1	216219-0-00	T-6 Motor Assembly	T-6-96	Pedal Pressure Adjusting Screw	1	218928-0-01	T-6-98 Clutch Lever #8 Assembly 218923-0-01
T-6-55	Washer	4	025050-1-35		T-6-97	Screw	1	014061-0-22	
T-6-56	Washer	9	028050-2-43		T-6-98- 1	Ball Screw	1	216225-0-01	
T-6-57	Screw	4	018502-5-22		T-6-98- 2	Nut	1	218921-0-01	
T-6-58	Screw	4	215080-0-01		T-6-98- 3	Clutch Lever	1	218924-0-01	
T-6-59	Brake Cover	1	218902-0-01		T-6-98- 4	Spring Cap	1	216233-0-01	
T-6-60	Bolt	1	018401-4-22		T-6-98- 5	Spring	1	218945-0-01	
T-6-61	Spring Washer	1	028040-2-43		T-6-98- 6	Washer	1	216235-0-00	
T-6-62	Washer	1	218896-0-00		T-6-98- 7	Clutch Lever Bottom Plate	1	218946-0-01	
T-6-63	Spacer	4	218860-0-01		T-6-98- 8	Switch Presser Plate	2	216241-0-01	
T-6-64	Brake Disc	1	218895-0-01	T-6 Motor Assembly	T-6-98- 9	Nut	6	021060-3-05	
T-6-65	Selation	1	217280-0-01		T-6-98-10	Bolt	3	213913-0-01	
T-6-66	Washer	1	218894-0-01		T-6-98-11	Screw	8	215080-0-01	
T-6-67	Spring	1	218893-0-01		T-6-98-12	Screw	2	012061-2-22	
T-6-68	Screw	2	002501-6-05		T-6-98-13	Spring Washer	2	028040-2-43	
T-6-69	Brake Solenoid	1	218915-0-01		T-6-98-14	Screw	2	002400-6-05	
T-6-70	Bearing 608VV	1	072060-8-60		T-6-98-15	Washer	1	025040-3-35	
T-6-71	Cord Holder	1	218930-0-01		T-6-98-16	Pin	1	218926-0-01	
T-6-72	Bracket	1	218876-0-01		T-6-98-17	Bolt	1	216232-0-01	
T-6-73	Nut	2	021060-3-05		T-6-98-18	Washer	1	028060-2-43	
T-6-74	Space Adjusting Plate	1	218881-0-01	T-6 Motor Assembly	T-6-98-19	Bolt	1	214002-0-01	T-6 Motor Assembly
T-6-75	Bolt	1	219405-0-01		T-6-98-20	Clutch Lever Cover	1	218925-0-01	
T-6-76	Bolt	1	018502-2-23		T-6-98-21	Spring Cap	1	218927-0-01	
T-6-77	Nut	1	210240-0-01		T-6-98-22	Spring	1	216230-0-01	
T-6-78	Screw	2	211528-0-01		T-6-98-23	Micro Key Cord	1	218947-0-01	
T-6-79	Belt Cover Set Plate	1	216380-0-01		T-6-98-24	Micro Switch	2	216236-0-01	
T-6-80	Pin	1	213757-0-02		T-6-98-25	Bushing	1	212544-0-01	
T-6-81	Spring Pin	1	218952-0-01		T-6-98-26	Washer	4	025040-1-35	
T-6-82	Clutch Plate #2	1	218885-0-01		T-7	Pulley	1		
T-6-83	Washer	1	218891-0-01		T-8	Belt Cover	1	215491-0-01	
T-6-84	Screw	1	218892-0-01	T-6 Motor Assembly	T-9	Washer	2	025050-3-35	
T-6-85	Worm 1/21	1	218884-0-00		T-10	Screw	2	211528-0-01	

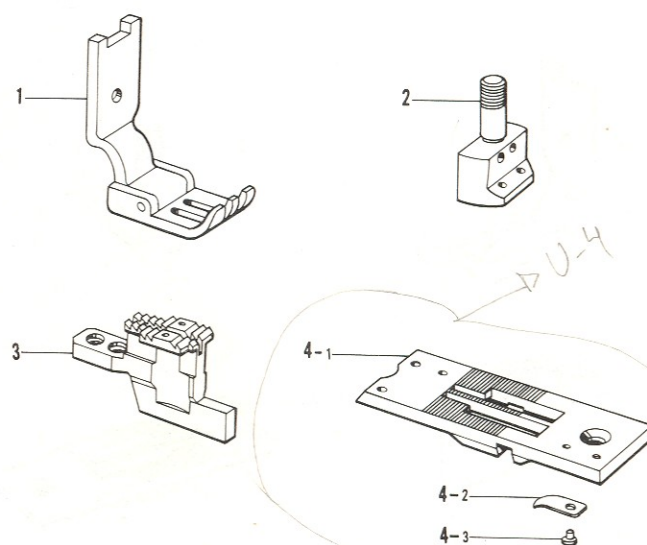
U. Gauge Mechanism

Thread Trimmer materials

(1) For medium materials

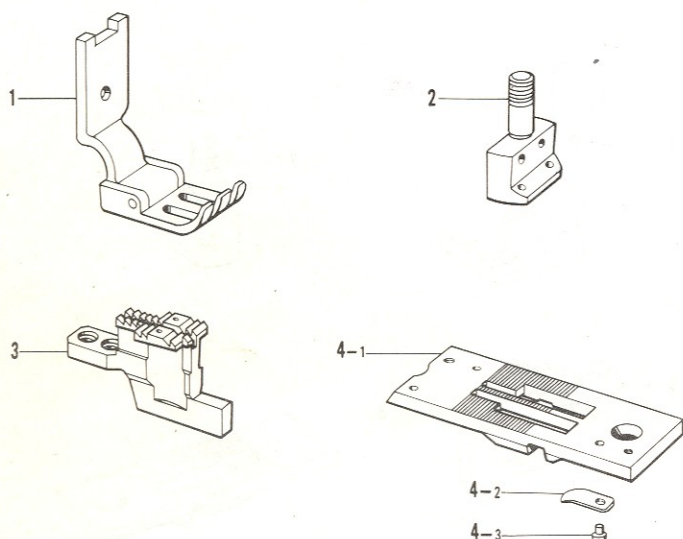


Ref. No.	Name of Parts	Q'ty	Parts No.	Gauge
U-1	Thread Wiper Holder	1	148528-0-01	$\frac{3}{32}'' \sim \frac{1}{2}''$
U-2	Thread Wiper Holder (L)	1	149986-0-01	$\frac{5}{8}'' \sim 1''$



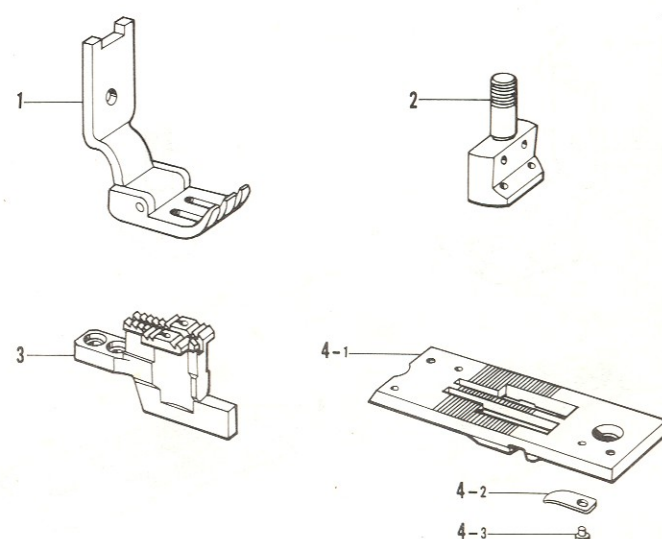
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
U-1	Presser Foot Assembly $\frac{3}{16}$	1	148687-0-01	
U-2	Needle Clamp $\frac{3}{16}$	1	112599-0-01	
U-3	Feed Dog $\frac{3}{16}$	1	148702-0-01	
U-4-1	Needle Plate $\frac{3}{16}$	1	148718-0-01	U-4 Needle Plate Assembly $\frac{3}{16}$ 148718-0-01
U-4-2	Presser Spring for Fix Knife	2	148708-0-01	
U-4-3	Pin	2	148709-0-01	

(2) For medium materials



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
U-1	Presser Foot Assembly $\frac{1}{4}$	1	148693-0-01	
U-2	Needle Clamp $\frac{1}{4}$	1	112600-0-01	
U-3	Feed Dog $\frac{1}{4}$	1	148704-0-01	
U-4-1	Needle Plate $\frac{1}{4}$	1		U-4 Needle Plate Assembly $\frac{1}{4}$ 148722-0-01
U-4-2	Presser Spring for Fix Knife	2	148708-0-01	
U-4-3	Pin	2	148709-0-01	

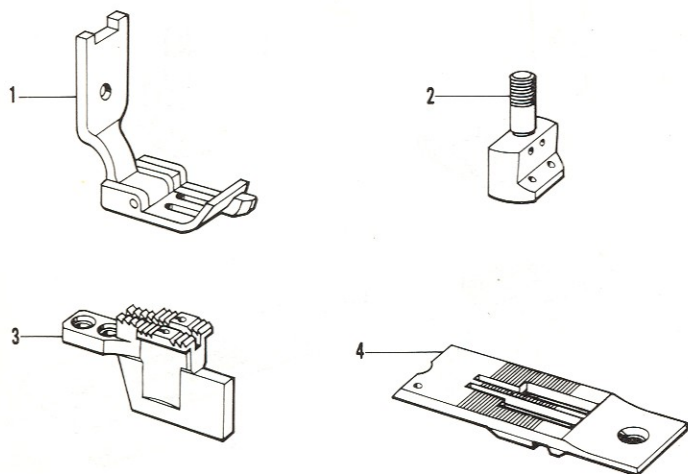
(3) For thick materials



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
U-1	Presser Foot Assembly $\frac{1}{4}$	1	148695-0-01	
U-2	Needle Clamp $\frac{1}{4}$	1	112600-0-01	
U-3	Feed Dog $\frac{1}{4}$	1	148705-0-01	
U-4-1	Needle Plate $\frac{1}{4}$	1	148724-0-01	U-4 Needle Plate Assembly $\frac{1}{4}$ 148724-0-01
U-4-2	Presser Spring for Fix Knife	2	148708-0-01	
U-4-3	Pin	2	148709-0-01	

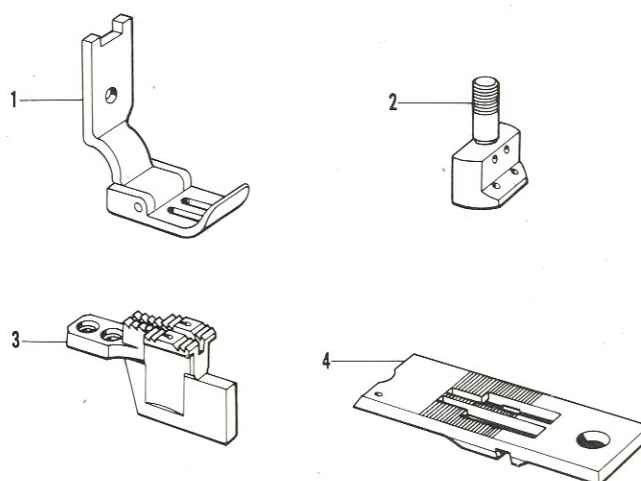
V. Gauge Mechanism

(4) For thin materials



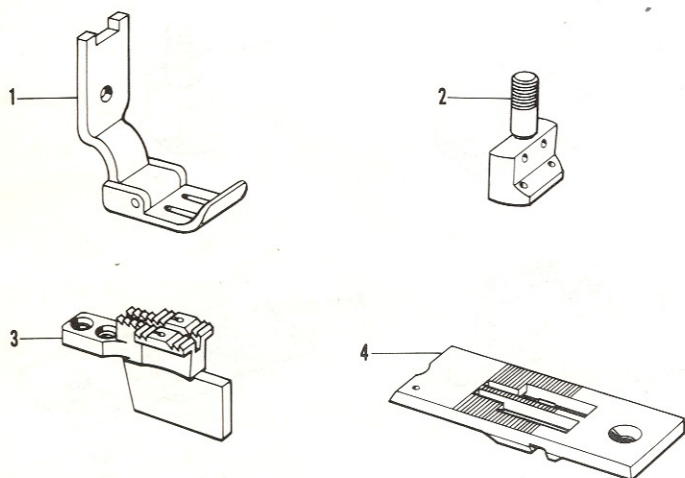
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
V-1	Presser Foot Assembly $\frac{3}{16}$	1	117281-0-01	✓
V-2	Needle Clamp $\frac{3}{16}$	1	112599-0-01	
V-3	Feed Dog $\frac{3}{16}$	1	117134-0-01	✓
V-4	Needle Plate $\frac{3}{16}$	1	117158-0-01	

(5) For medium materials



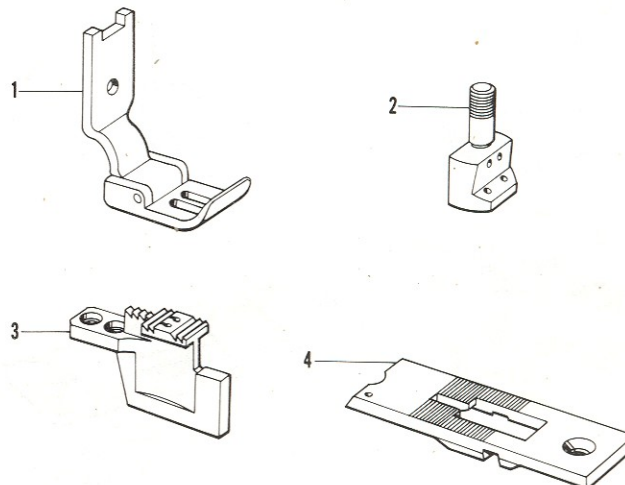
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
V-1	Presser Foot Assembly $\frac{3}{16}$	1	112638-0-01	✓
V-2	Needle Clamp $\frac{3}{16}$	1	112599-0-01	
V-3	Feed Dog $\frac{3}{16}$	1	112659-0-01	✓
V-4	Needle Plate $\frac{3}{16}$	1	112603-0-01	

(6) For medium materials



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
V-1	Presser Foot Assembly $\frac{1}{4}$	1	112642-0-01	
V-2	Needle Clamp $\frac{1}{4}$	1	112600-0-01	✓
V-3	Feed Dog $\frac{1}{4}$	1	112660-0-01	✓
V-4	Needle Plate $\frac{1}{4}$	1	112604-0-01	

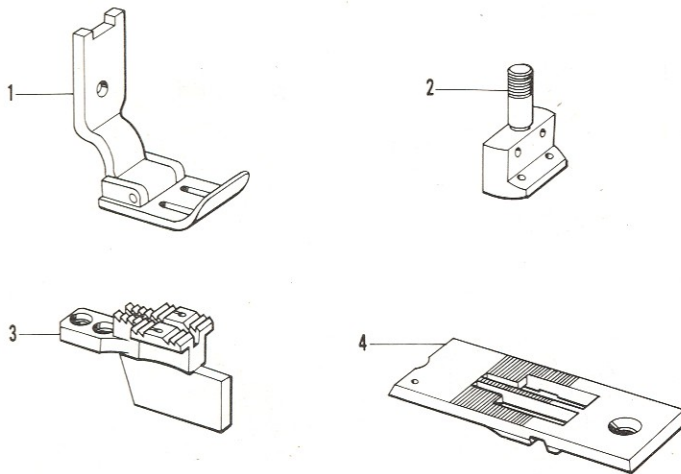
(7) For medium materials



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
V-1	Presser Foot Assembly $\frac{1}{8}$	1	114948-0-01	✓
V-2	Needle Clamp $\frac{1}{8}$	1	114947-0-01	
V-3	Feed Dog $\frac{1}{8}$	1	114951-0-01	✓
V-4	Needle Plate $\frac{1}{8}$	1	114950-0-01	

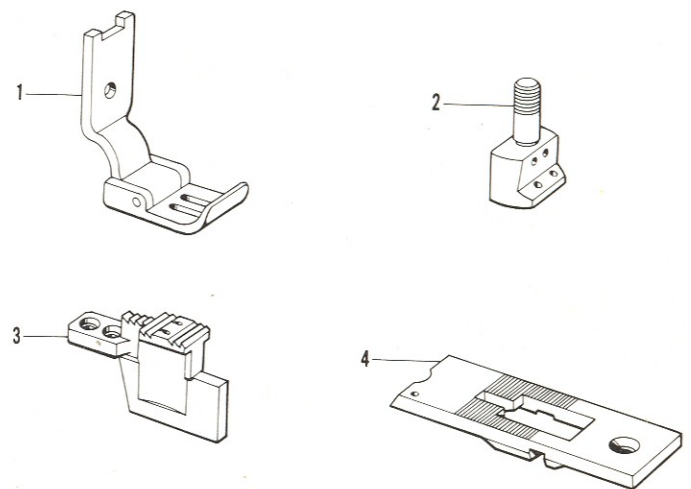
W. Gauge Mechanism

(8) For medium materials



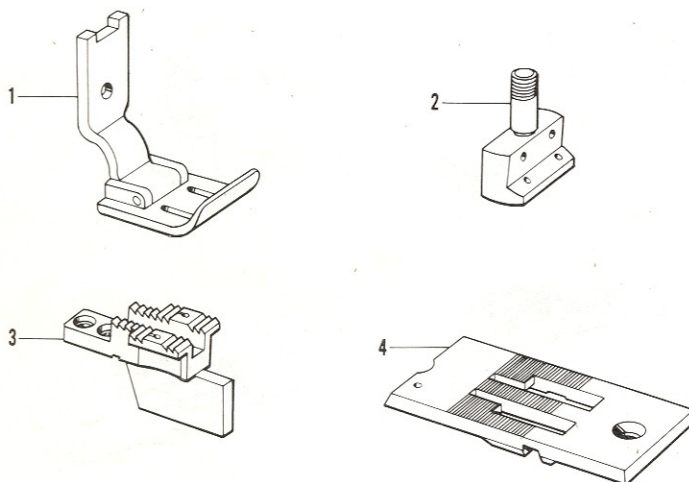
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
W-1	Presser Foot Assembly $\frac{5}{16}$	1	112645-0-01	✓
W-2	Needle Clamp $\frac{5}{16}$	1	112601-0-01	
W-3	Feed Dog $\frac{5}{16}$	1	112661-0-01	
W-4	Needle Plate $\frac{5}{16}$	1	112605-0-01	✓

(9) For medium materials



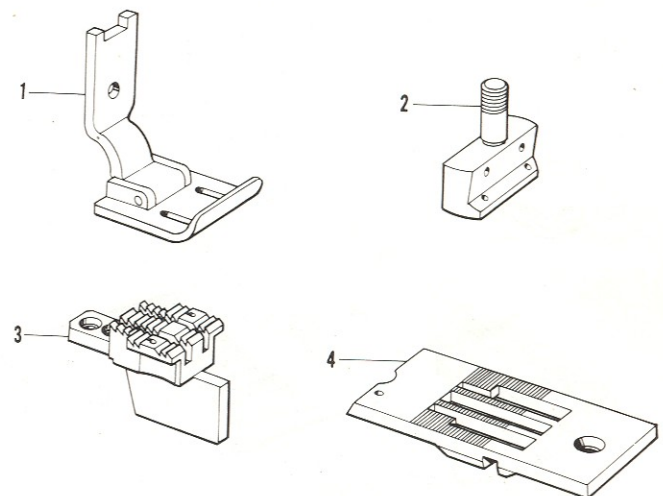
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
W-1	Presser Foot Assembly $\frac{5}{32}$	1	116502-0-01	✓
W-2	Needle Clamp $\frac{5}{32}$	1	116489-0-01	✓
W-3	Feed Dog $\frac{5}{32}$	1	116509-0-01	✓
W-4	Needle Plate $\frac{5}{32}$	1	116503-0-01	✓

(10) For medium materials



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
W-1	Presser Foot Assembly $\frac{3}{8}$	1	116498-0-01	✓
W-2	Needle Clamp $\frac{3}{8}$	1	116491-0-01	✓
W-3	Feed Dog $\frac{3}{8}$	1	116510-0-01	✓
W-4	Needle Plate $\frac{3}{8}$	1	116506-0-01	

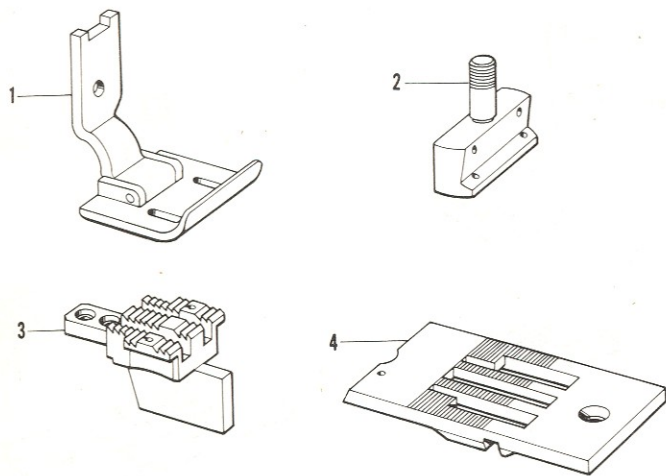
(11) For medium materials



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
W-1	Presser Foot Assembly $\frac{1}{2}$	1	116499-0-01	✓
W-2	Needle Clamp $\frac{1}{2}$	1	116490-0-01	✓
W-3	Feed Dog $\frac{1}{2}$	1	116511-0-01	✓
W-4	Needle Plate $\frac{1}{2}$	1	116505-0-01	

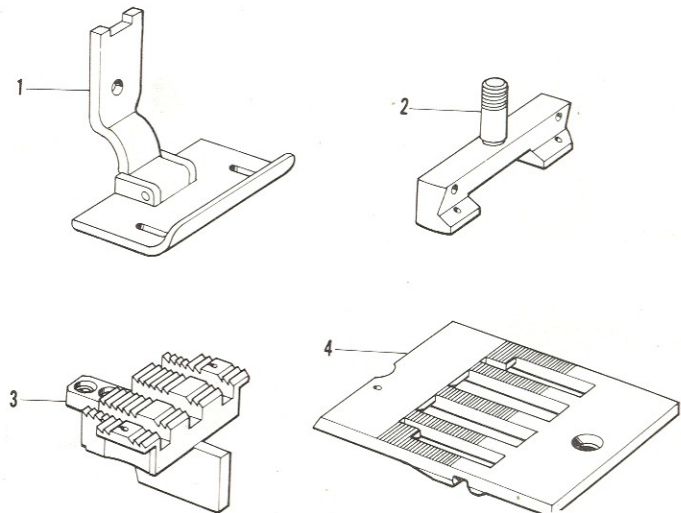
X. Gauge Mechanism

(12) For medium materials



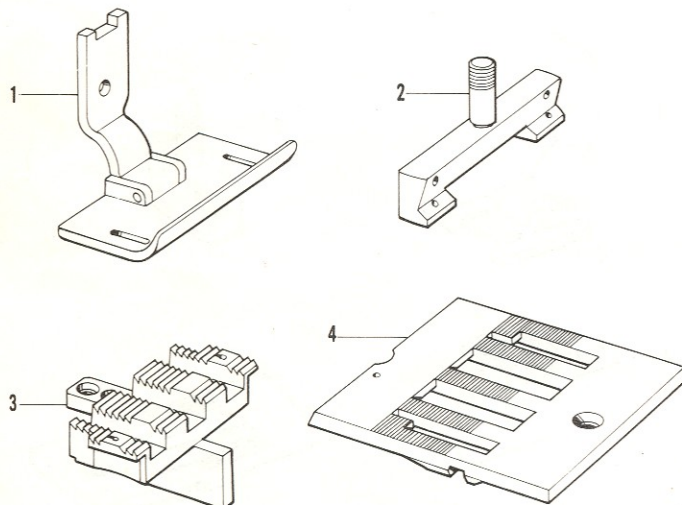
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
X-1	Presser Foot Assembly $\frac{5}{8}$	1	116500-0-01	
X-2	Needle Clamp $\frac{5}{8}$	1	116488-0-01	
X-3	Feed Dog $\frac{5}{8}$	1	116512-0-01	X
X-4	Needle Plate $\frac{5}{8}$	1	116507-0-01	

(13) For medium materials



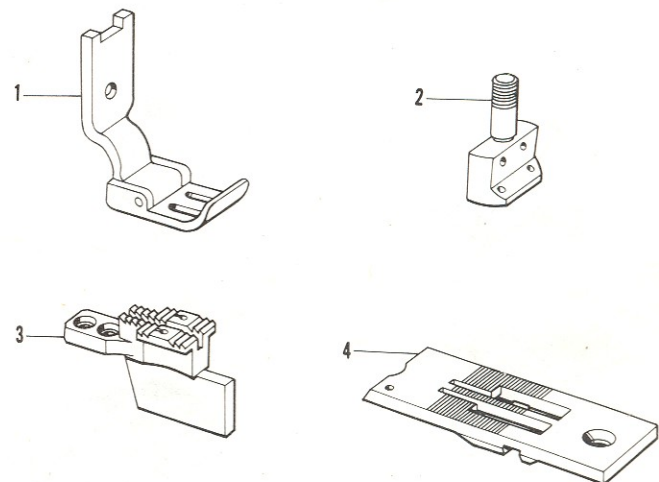
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
X-1	Presser Foot Assembly $1\frac{1}{4}$	1	116501-0-01	
X-2	Needle Clamp $1\frac{1}{4}$	1	116492-0-01	
X-3	Feed Dog $1\frac{1}{4}$	1	116508-0-01	
X-4	Needle Plate $1\frac{1}{4}$	1	116504-0-01	

(14) For medium materials



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
X-1	Presser Foot Assembly $1\frac{1}{2}$	1	118946-0-01	
X-2	Needle Clamp $1\frac{1}{2}$	1	118944-0-01	
X-3	Feed Dog $1\frac{1}{2}$	1	118947-0-01	
X-4	Needle Plate $1\frac{1}{2}$	1	118945-0-01	

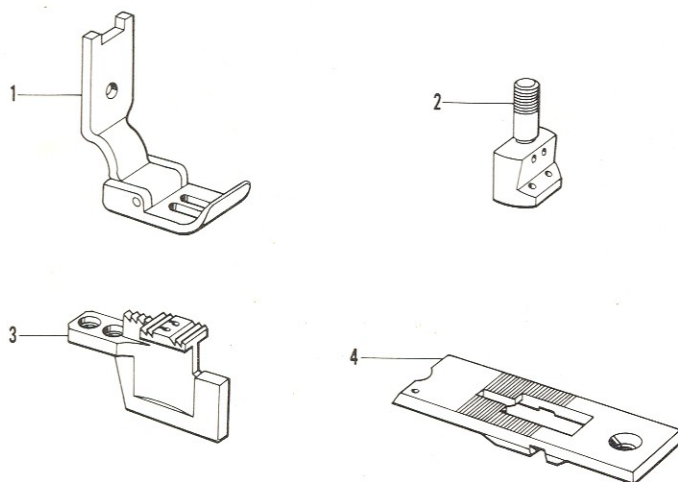
(15) For thick materials



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
X-1	Presser Foot Assembly $\frac{1}{4}$	1	112642-0-01	
X-2	Needle Clamp $\frac{1}{4}$	1	112600-0-01	X
X-3	Feed Dog $\frac{1}{4}$	1	112660-0-01	X
X-4	Needle Plate $\frac{1}{4}$	1	117367-0-01	OK

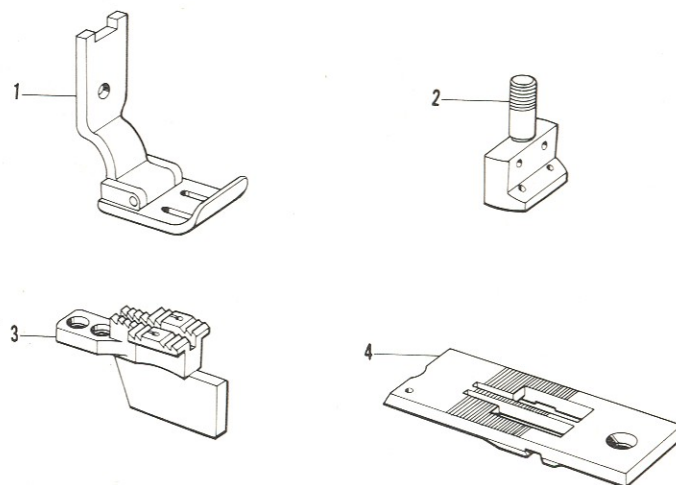
Y. Gauge Mechanism

(16) For thick materials



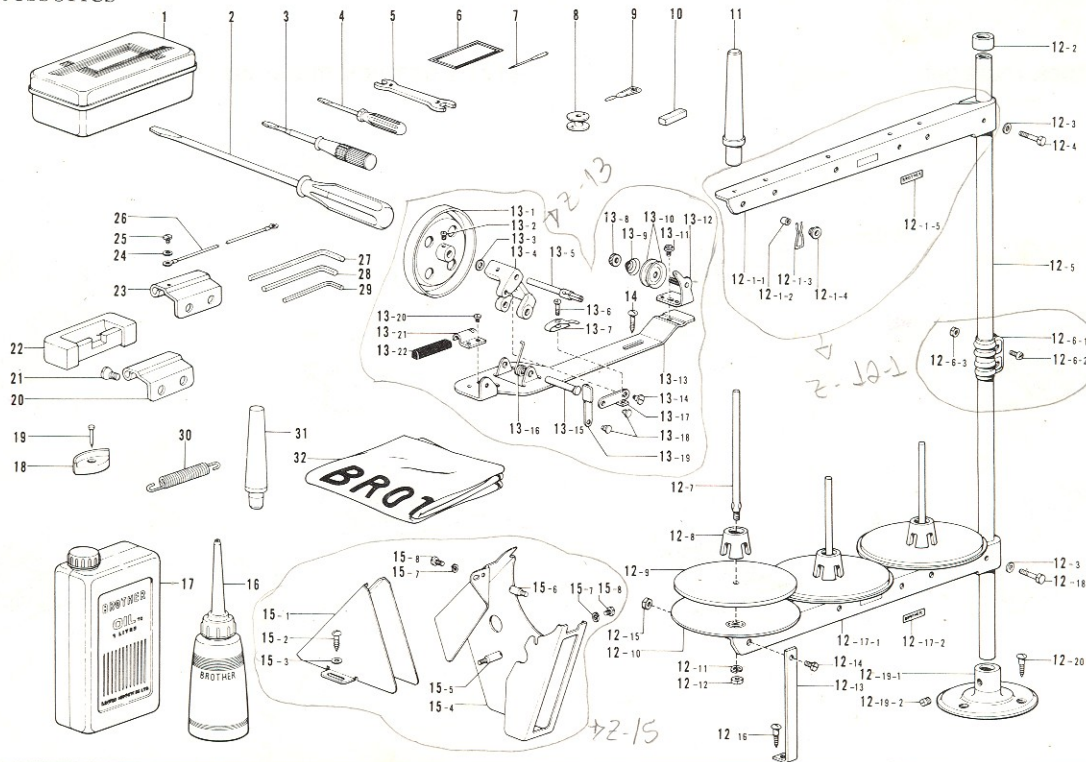
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
Y-1	Presser Foot Assembly $\frac{1}{8}$	1	114948-0-01	✓
Y-2	Needle Clamp $\frac{1}{8}$	1	114947-0-01	
Y-3	Feed Dog $\frac{1}{8}$	1	114951-0-01	
Y-4	Needle Plate $\frac{1}{8}$	1	117369-0-01	

(17) For thick materials



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
Y-1	Presser Foot Assembly $\frac{5}{16}$	1	112645-0-01	✓
Y-2	Needle Clamp $\frac{5}{16}$	1	112601-0-01	
Y-3	Feed Dog $\frac{5}{16}$	1	112661-0-01	
Y-4	Needle Plate $\frac{5}{16}$	1	144882-0-01	

Z. Accessories



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
Z- 1	Accessory Box		110436-0-01		Z-13- 6	Screw		100657-0-01	
Z- 2	Screw Driver		101572-1-01		Z-13- 7	Bobbin Presser			
Z- 3	Screw Driver		118837-0-01		Z-13- 8	Tension Control Nut			
Z- 4	Screw Driver		142443-0-01		Z-13- 9	Tension Spring		100401-0-01	
Z- 5	Spanner 8×9		100887-0-01		Z-13-10	Tension Disc		145446-0-01	
Z- 6	Needle Bag				Z-13-11	Screw			
Z- 7	Needle DP× 5				Z-13-12	Bobbin Winder Guide Assembly			
Z- 8	Bobbin				Z-13-13	Bobbin Winder Wheel Bracket			
Z- 9	Threader		103896-0-02		Z-13-14	Screw		100659-0-01	
Z-10	Felt		114941-0-01		Z-13-15	Pin			
Z-11	Head Rest		100477-0-01		Z-13-16	Spring		117969-0-01	
Z-12- 1-1	Spool Holder				Z-13-17	Bobbin Presser Arm			
Z-12- 1-2	Thread Bushing				Z-13-18	Pin		100661-0-01	
Z-12- 1-3	Thread Hanger Spring				Z-13-19	Bobbin Presser Bracket			
Z-12- 1-4	Thread Hanger Bracket				Z-13-20	Screw		009679-3-12	
Z-12- 1-5	Name Plate				Z-13-21	Bobbin Winder Wheel Stopper Holder			
Z-12- 2	Column Cap				Z-13-22	Bobbin Winder Wheel Stopper		100662-0-01	
Z-12- 3	Washer		025050-2-33		Z-14	Screw		100666-0-02	
Z-12- 4	Bolt		017502-8-03		Z-15- 1	Belt Cover D			
Z-12- 5	Column Pipe		150172-0-01		Z-15- 2	Screw		100666-0-02	
Z-12- 6-1	Joint				Z-15- 3	Washer		025750-1-32	
Z-12- 6-2	Screw		150202-0-01		Z-15- 4	Belt Cover UD			
Z-12- 6-3	Nut		021500-1-03		Z-15- 5	Belt Cover Stud B		147856-0-02	
Z-12- 7	Spool Shaft (B)		150179-0-01		Z-15- 6	Belt Cover Stud		147858-0-01	
Z-12- 8	Spool Cushion		147060-0-01		Z-15- 7	Washer		028680-2-42	
Z-12- 9	Spool Mat		150182-0-00		Z-15- 8	Screw		009680-8-12	
Z-12-10	Spool Disc		150180-0-00		Z-16	Oiler		114483-0-01	
Z-12-11	Washer		028050-2-43		Z-17	Oil Tank		145277-1-03	
Z-12-12	Nut		021500-1-03		Z-18	Head Cushion		148890-1-01	
Z-12-13	Spool Holder Supporter		150188-0-01		Z-19	Nail		109714-0-00	
Z-12-14	Screw		007501-0-03		Z-20	Head Hinge		148882-0-01	
Z-12-15	Nut		021500-1-03		Z-21	Screw		112569-0-01	
Z-12-16	Screw		031452-2-03		Z-22	Rubber Hinge		143910-0-01	
Z-12-17-1	Spool Holder				Z-23	Head Hinge			
Z-12-17-2	Name Plate				Z-24	Washer			
Z-12-18	Bolt		017502-8-03		Z-25	Screw			
Z-12-19-1	Cotton Stand Base		150189-0-01		Z-26	Earth Wire			
Z-12-19-2	Screw		150181-0-01		Z-27	Allen Wrench			
Z-12-20	Screw		031452-2-03		Z-28	Spanner 3			
Z-13- 1	Bobbin Winder Wheel Assembly				Z-29	Allen Wrench (2mm)			
Z-13- 2	Screw		100366-0-02		Z-30	Spring			
Z-13- 3	Washer				Z-31	Head Rest			
Z-13- 4	Bobbin Winder Wheel Shaft Supporter				Z-32	Head Cover		144222-0-01	
Z-13- 5	Bobbin Winder Shaft		117970-0-01						

*The details of included accessories are subject to change.

*Les détails des accessoires inclus sont sujets à des changements.

*Änderungen in der Aufstellung der mitgelieferten Zubehöre sind vorbehalten.

*Los detalles de los accesorios incluidos pueden variar.

SUBCLASS ORGANIZATION PARTS

Needle Gauge	Sub Class	Needle Plate Assembly	Feed Dog	Presser Foot Assembly	Needle Clamp
1/8 (3.2mm)	-5	148712-0-01	148699-0-01	148681-0-01	114947-0-01
	-1 . -3	148710-0-01	148698-0-01	148685-0-01	
5/32 (4.0mm)	-5	148716-0-01	148701-0-01	148683-0-01	116489-0-01
	-1 . -3	148714-0-01	148700-0-01	148689-0-01	
3/16 (4.8mm)	-5	148720-0-01	148703-0-01	148691-0-01	112599-0-01
	-1 . -3	148718-0-01	148702-0-01	148687-0-01	
1/4 (6.4 mm)	-5	148724-0-01	148705-0-01	148695-0-01	112600-0-01
	-1 . -3	148722-0-01	148704-0-01	148693-0-01	
3/32 (2.4 mm)	-5	148706-0-01	148697-0-01	148679-0-01	148678-0-01
	-1 . -3				
5/16 (7.9mm)	-5	149693-0-01	149691-0-01	149687-0-01	112601-0-01
	-1 . -3	149695-0-01	149692-0-01	149689-0-01	
3/8 (9.5 mm)	-5	149944-0-01	149938-0-01	149940-0-01	116491-0-01
	-1 . -3	149946-0-01	149939-0-01	149942-0-01	
1/2 (12.7mm)	-5	149677-0-01	149675-0-01	149671-0-01	116490-0-01
	-1 . -3	149679-0-01	149676-0-01	149673-0-01	
5/8 (15.9mm)	-5	149954-0-01	149948-0-01	149950-0-01	116488-0-01
	-1 . -3	149956-0-01	149949-0-01	149952-0-01	
3/16 (4.8mm)	-5	117133-0-01	112659-0-01	112638-0-01	112599-0-01
	-3	112603-0-01			
	-1	117158-0-01 117133-0-01			
1/4 (6.4 mm)	-5	117367-0-01	112660-0-01	112642-0-01	112600-0-01
	-3	112604-0-01			
	-1	117367-0-01			
1/8 (3.2mm)	-5	117369-0-01	114951-0-01	114948-0-01	114947-0-01
	-3	114950-0-01			
	-1	117370-0-01			
5/16 (7.9mm)	-5	144882-0-01	112661-0-01	112645-0-01	112601-0-01
	-3	112605-0-01			
3/8 (9.5 mm)	-5	144881-0-01	116510-0-01	116498-0-01	116491-0-01
	-3	116506-0-01			
2 1/6 (5.5 mm)	-5	147560-0-01	147561-0-01	147562-0-01	147564-0-01
1/16 (1.59 mm)	-3	142111-0-01			
2 (50.8 mm)	-5	144951-0-01	144947-0-01	144949-0-01	144948-0-01
	-3				
	-1				
2 5/32 (54.8mm)	-5	147560-0-01	147561-0-01	147562-0-01	147564-0-01
1/2 (12.7 mm)	-3	116505-0-01	116511-0-01	116499-0-01	116490-0-01
5/8 (15.9mm)	-3	116507-0-01	116512-0-01	116500-0-01	116488-0-01
1 1/4 (31.8mm)	-3	116504-0-01	116508-0-01	116501-0-01	116492-0-01
5/32 (4.0mm)	-3	116503-0-01	116509-0-01	116502-0-01	116489-0-01
1 1/2 (38.1mm)	-3	118945-0-01	118947-0-01	118946-0-01	118944-0-01
Longitudinal 2 (50.8mm)	-3		142110-0-01		
Longitudinal 2 (50.8mm)	-1			142105-0-01	
	-5				

SEPARATE PARTS LIST

Ref. No.	Name of Parts	Sub Class Gauge	-3						-5		
			3/16	3/16	1/4	1/8	5/16	3/8	1/8	1/4	5/16
A-15	Upper Tension Control Assembly		144678-0-01			144678-0-01				148011-1-01	
A-15-9	Tension Spring	X	118317-0-01			118317-0-01				148672-0-01	
A-28	Arm Thread Guide, Lower		112715-0-01			112715-0-01				112715-0-01	
A-29	Screw		108960-0-04			108960-0-04				108960-0-04	
A-30	Felt	X	114941-0-01			114941-0-01				114941-0-01	
A-31	Pipe		112714-0-00			112714-0-00				112714-0-00	
A-32	Thread Release Shaft		144823-0-01			144823-0-01			X	144823-0-00	
A-35	Needle Plate Assembly		117158-0-01	112603-0-01	112604-0-01	114950-0-01	112605-0-01	116506-0-01	117369-0-01	117367-0-01	144882-0-01
A-36	Screw		117160-0-01			100032-0-03				100032-0-03	
A-39	Slide Plate, Left		112606-0-01			112606-0-01			112606-0-01	145721-0-01	112606-0-01
A-41	Slide Plate, Front Assembly		112610-0-01			112610-0-01				112610-0-01	
B-3	Thread Take-up Lever		112578-0-01			112578-1-01	X			140525-0-01	
B-30	Pulley		144614-0-01			144614-0-01				144614-0-01	
B-32	Screw		104478-0-01			104478-0-01				104478-0-01	
B-34	Needle Clamp		112599-0-01	112599-0-01	112600-0-01	114947-0-01	112601-0-01	116491-0-01	114947-0-01	112600-0-01	112601-0-01
B-36	Needle DPXS	X	107415-0-11			107415-0-14	X			107415-0-22	X
B-37	Needle Bar Crank Rod Assembly	X	112587-1-01			112587-1-01				112587-1-01	
B-37-1	Needle Bar		112591-0-01			112591-0-01				112591-0-01	
B-37-6	Needle Bar Support		112589-1-00			112589-1-00				112589-1-00	
C-4	Presser Bar Guide Assembly		180950-0-01			180950-0-01				180950-0-01	
C-11	Presser Bar Bushing, Lower		112763-0-01			112763-0-01				112763-0-01	
C-13	Presser Foot	X	117281-0-01	112638-0-01	112642-0-01	114948-0-01	112645-0-01	116498-0-01	114948-0-01	112642-0-01	112645-0-01
C-15	Knee Lifter Lever		112625-0-01			112625-0-01				112625-0-01	
C-18	Spring		112629-0-01			112629-0-01				112629-0-01	
C-22	Knee Lifter Connecting Lever		112627-0-01			112627-0-01				112627-0-01	
C-23	Screw		112628-0-01			112628-0-01				112628-0-01	
C-24	Knee Lifter Connecting Rod		112632-0-01			112632-0-01				112632-0-01	
C-25	Pin		114909-0-00			114909-0-00				114909-0-00	
C-26	Collar		112634-0-02			112634-0-02				112634-0-02	
C-27	Screw		104908-0-04			104908-0-04				104908-0-04	
C-28	Knee Lifter Roller Bracket		116276-0-01			116276-0-01				116276-0-01	
C-29	Knee Lifter Assembly	X	113380-0-01			113380-0-01				113380-0-01	
C-30	Screw		106030-0-01			106030-0-01				106030-0-01	
D-13	Length Control Plate	X	151508-0-01			151508-0-01				151507-0-01	X
D-18	Feed Regulator Lever Shaft	X	151080-0-01			151080-0-01				151080-0-01	
D-19	Link Assembly		143608-0-01			143608-0-01				143608-0-01	
D-20	Screw		014760-6-22			014760-6-22				014760-6-22	
D-21	Reverse Lever		118752-0-01			118752-0-01				118752-0-01	
D-22	Screw		015771-0-12			015771-0-12				015771-0-12	
D-23	Reverse Lever Stopper	X	118865-0-01			118865-0-01				118865-0-01	
D-24	Screw		009680-7-12			009680-7-12				009680-7-12	
D-25	Spring		143609-0-01			143609-0-01				143609-0-01	
D-32	Feed Regulator Arm		148499-0-01			148499-0-01				148500-0-01	X
D-38	Level Feed Connecting Rod Assembly	X	143611-0-00			143611-0-00				143611-0-00	
D-50	Feed Rock Shaft		149001-0-01			149001-0-01				149001-0-01	
D-52	Feed Bar		151081-0-01			151081-0-01				151081-0-01	
D-54	Feed Bar Shaft		148977-0-01			148977-0-01				148977-0-01	
D-62	Feed Dog		117134-0-01	112659-0-01	112660-0-01	114951-0-01	112661-0-01	116510-0-01	114951-0-01	112660-0-01	112661-0-01
E-1	Lower Shaft		151082-0-01			151082-0-01				151082-0-01	
E-6	Vertical Feed Eccentric Wheel Assembly		181486-0-01			181486-0-01				181486-0-01	
E-12	Timing Belt Wheel Lower Assembly		180164-0-01			180164-0-01				180164-0-01	
E-13	Screw	X	015771-2-12			015771-2-12				015771-2-12	
E-37	Rotary Hook		112691-0-01			112691-0-01				144903-0-01	X
E-37-2-1	Adjusting Spring	X	151145-0-01			151145-0-01				151146-0-01	X
E-38	Bobbin		112781-0-01			112781-0-01				112781-0-01	
E-39	Rotary Hook Base, Left		112685-0-01			112685-0-01				112685-0-01	

Ref. No.	Name of Parts	Sub Class		-3				
		Gauge		5/32	1/2	5/8	1/4	1/2
A-15	Upper Tension Control Assembly					144678-0-01		
A-15-9	Tension Spring					118317-0-01		
A-28	Arm Thread Guide, Lower					112715-0-01		
A-29	Screw					108960-0-04		
A-30	Felt					114941-0-01		
A-31	Pipe					112714-0-00		
A-32	Thread Release Shaft					144823-0-01		
A-35	Needle Plate Assembly			116503-0-01	116505-0-01	116507-0-01	116504-0-01	118945-0-01
A-36	Screw					100032-0-03		
A-39	Slide Plate, Left					112606-0-01		
A-41	Slide Plate, Front Assembly					112610-0-01		
B- 3	Thread Take-up Lever					112578-1-01		
B-30	Pulley					144614-0-01		
B-32	Screw					104478-0-01		
B-34	Needle Clamp			116489-0-01	116490-0-01	116488-0-01	116492-0-01	118944-0-01
B-36	Needle DPX5					107415-0-14		
B-37	Needle Bar Crank Rod Assembly					112587-1-01		
B-37-1	Needle Bar					112591-0-01		
B-37-6	Needle Bar Support					112589-1-00		
C- 4	Presser Bar Guide Assembly					180950-0-01		
C-11	Presser Bar Bushing, Lower					112763-0-01		
C-13	Presser Foot			116502-0-01	116499-0-01	116500-0-01	116501-0-01	118946-0-01
C-15	Knee Lifter Lever					112625-0-01		
C-18	Spring					112629-0-01		
C-22	Knee Lifter Connecting Lever					112627-0-01		
C-23	Screw					112628-0-01		
C-24	Knee Lifter Connecting Rod					112632-0-01		
C-25	Pin					114909-0-00		
C-26	Collar					112634-0-02		
C-27	Screw					104908-0-04		
C-28	Knee Lifter Roller Bracket					116276-0-01		
C-29	Knee Lifter Assembly					113380-0-01		
C-30	Screw					106030-0-01		
D-13	Length Control Plate					151508-0-01		
D-18	Feed Regulator Lever Shaft					151080-0-01		
D-19	Link Assembly					143608-0-01		
D-20	Screw					014760-6-22		
D-21	Reverse Lever					118752-0-01		
D-22	Screw					015771-0-12		
D-23	Reverse Lever Stopper					118865-0-01		
D-24	Screw					009680-7-12		
D-25	Spring					143609-0-01		
D-32	Feed Regulator Arm					148499-0-01		
D-38	Level Feed Connecting Rod Assembly					143611-0-00		
D-50	Feed Rock Shaft					149001-0-01		
D-52	Feed Bar					151081-0-01		
D-54	Feed Bar Shaft					148977-0-01		
D-62	Feed Dog			116509-0-01	116511-0-01	116512-0-01	116508-0-01	118947-0-01
E- 1	Lower Shaft					151082-0-01		
E- 6	Vertical Feed Eccentric Wheel Assembly					181486-0-01		
E-12	Timing Belt Wheel Lower Assembly					180164-0-01		
E-13	Screw					015771-2-12		
E-37	Rotary Hook					112691-0-01		
E-37-2-1	Adjusting Spring					151145-0-01		
E-38	Bobbin					112781-0-01		
E-39	Rotary Hook Base, Left					112685-0-01		

Ref. No.	Sub Class Name of Parts Gauge	-403		-405	-503		-505
		3/16	1/4	1/4	3/16	1/4	1/4
A-15	Upper Tension Control Assembly						
A-15-9	Tension Spring						
A-28	Arm Thread Guide, Lower						
A-29	Screw						
A-30	Felt						
A-31	Pipe						
A-32	Thread Release Shaft						
A-35	Needle Plate Assembly	148718-0-01	148722-0-01 ✓	148724-0-01	148718-0-01	148722-0-01 ✗	148724-0-01
A-36	Screw		100032-0-03			100032-0-03	
A-39	Slide Plate, Left		112606-0-01			112606-0-01	
A-41	Slide Plate, Front Assembly						
B- 3	Thread Take-up Lever						
B-30	Pulley						
B-32	Screw						
B-34	Needle Clamp	112599-0-01	112600-0-01 ✗	112600-0-01 ✗	112599-0-01	112600-0-01 ✗	112600-0-01 ✗
B-36	Needle DPX5 ✗		107415-0-14	107415-0-22		107415-0-14	107415-0-22
B-37	Needle Bar Crank Rod Assembly						
B-37-1	Needle Bar						
B-37-6	Needle Bar Support						
C- 4	Presser Bar Guide Assembly						
C-11	Presser Bar Bushing, Lower						
C-13	Presser Foot	148687-0-01	148693-0-01	148695-0-01 ✗	148687-0-01	148693-0-01	148695-0-01 ✗
C-15	Knee Lifter Lever						
C-18	Spring		112629-0-01				
C-22	Knee Lifter Connecting Lever		112627-0-01				
C-23	Screw		112628-0-01				
C-24	Knee Lifter Connecting Rod						
C-25	Pin		114909-0-00				
C-26	Collar		112634-0-02				
C-27	Screw		104908-0-04				
C-28	Knee Lifter Rollar Bracket		116276-0-01				
C-29	Knee Lifter Assembly						
C-30	Screw		106030-0-01				
D-13	Length Control Plate ✗		151508-0-01*	151507-0-01 ✗		151508-0-01 ✗	151507-0-01 ✗
D-18	Feed Regulator Lever Shaft						
D-19	Link Assembly						
D-20	Screw						
D-21	Reverse Lever						
D-22	Screw						
D-23	Reverse Lever Stopper ✗		118865-0-01				
D-24	Screw		009680-7-12				
D-25	Spring					143609-0-01	
D-32	Feed Regulator Arm		148499-0-01	148500-0-01 ✗		148499-0-01	148500-0-01 ✗
D-38	Level Feed Connecting Rod Assembly						
D-50	Feed Rock Shaft						
D-52	Feed Bar						
D-54	Feed Bar Shaft						
D-62	Feed Dog	148702-0-01	148704-0-01	148705-0-01	148702-0-01	148704-0-01	148705-0-01
E- 1	Lower Shaft						
E- 6	Vertical Feed Eccentric Wheel Assembly			181486-0-01			181486-0-01
E-12	Timing Belt Wheel Lower Assembly					180164-0-01	
E-13	Screw						
E-37	Rotary Hook						
E-37-2-1	Adjusting Spring						
E-38	Bobbin						
E-39	Rotary Hook Base, Left						

Ref. No.	Name of Parts	Sub Class Gauge	-1	-3					-5		
			3/16	3/16	1/4	1/8	5/16	3/8	1/8	1/4	5/16
E-42	Washer	+	100197-0-02			100197-0-02				100197-0-02	
E-43	Screw		105351-0-02			105351-0-02				105351-0-02	
E-45	Oil Gauge		112757-0-01			112757-0-01				112757-0-01	
E-46	Oil Pipe	x	115287-0-00			115287-0-00				115287-0-00	
E-51	Rotary Hook Base, Right		112701-0-01			112701-0-01				112701-0-01	
F- 1	Oil Reservoir Plate Assembly					112762-0-01				112762-0-01	
F-23	Oil Tube		112737-0-01			112737-0-01				112737-0-01	
F-24	Wick		112738-0-00			112738-0-00				112738-0-00	
F-25	Oil Tube	+	143661-0-00			143661-0-00				143661-0-00	
F-26	Wick	+	143660-0-00			143660-0-00				143660-0-00	
F-27	Oil Tube	x	151084-0-00			151084-0-00				151084-0-00	
F-28	Wick	+	143662-0-00			143662-0-00				143662-0-00	
F-29	Oil Tube	x	143669-0-00			143669-0-00				143669-0-00	
F-30	Wick	+	143668-0-00			143668-0-00				143668-0-00	
F-31	Oil Tube	x	143669-0-00			143669-0-00				143669-0-00	
F-32	Wick	x	143668-0-00			143668-0-00				143668-0-00	
F-33	Oil Tube	x	143671-0-00			143671-0-00				143671-0-00	
F-34	Wick	+	143670-0-00			143670-0-00				143670-0-00	
F-37	Oil Pipe Supporter	+	151083-0-01			151083-0-01				151083-0-01	
F-38	Oil Felt	+	112741-0-01			112741-0-01				112741-0-01	
F-51	Oil Pan Plate Assembly	+	117200-0-01								
F-52	Spring	x	117204-0-01								
F-53	Stop Ring	x	117205-0-01								
F-54	Wick Presser Plate	+	117203-0-01								
F-55	Screw		009671-0-12								
G- 1	Arm Thread Guide, Center										
G- 3	Thread Guide Assembly										
G- 8	Cord Holder										
G- 9	Screw										
G-32	Knee Lifter Assembly										
G-33	Tension Control Plate Assembly										
G-33-13	Tension Spring										
G-34	Spring										
H- 7	Knee Lifter Connecting Rod										
H- 8	Pulley										
H- 9	Pulley										
H-10	Washer										
H-11	Bolt										
H-13	Vertical Feed Eccentric Wheel Assembly										
H-19	Spring										
H-21	Bobbin Tension Spring										
H-22	Rotary Hook										
H-27	Timing Belt Pully Lower Assembly										
J - 4	Thread Presser Spring										
J -46	Tension Release Rock Lever Assembly										
J -58	Stopper										
J -59	Washer										
J -60	Screw										
K- 9	Spring										
K-18	Thread Wiper Solenoid										
K-27	Switch										
K-33	Thread Wiper Solenoid										
K-34	Switch										
L- 3	Spring										
L-15	Knife Driving Cam										
L-32	Reverse Solenoid Assembly										

Ref. No.	Name of Parts	Sub Class Gauge	-3				
			5/32	1/2	5/8	1/4	1/2
E-42	Washer				100197-0-02	×	
E-43	Screw				105351-0-02		
E-45	Oil Gauge				112757-0-01		
E-46	Oil Pipe				115287-0-00	✓	
E-51	Rotary Hook Base, Right				112701-0-01		
F- 1	Oil Reservoir Plate Assembly				112762-0-01		
F-23	Oil Tube				112737-0-01		
F-24	Wick				112738-0-00		
F-25	Oil Tube				143661-0-00	×	
F-26	Wick				143660-0-00	×	
F-27	Oil Tube				151084-0-00	×	
F-28	Wick				143662-0-00	×	
F-29	Oil Tube				143669-0-00	×	
F-30	Wick				143668-0-00	×	
F-31	Oil Tube				143669-0-00	×	
F-32	Wick				143668-0-00	×	
F-33	Oil Tube				143671-0-00	×	
F-34	Wick				143670-0-00	✓	
F-37	Oil Pipe Supporter				151083-0-01	×	
F-38	Oil Felt				112741-0-01	×	
F-51	Oil Pan Plate Assembly						
F-52	Spring						
F-53	Stop Ring						
F-54	Wick Presser Plate						
F-55	Screw						
G- 1	Arm Thread Guide, Center						
G- 3	Thread Guide Assembly						
G- 8	Cord Holder						
G- 9	Screw						
G-32	Knee Lifter Assembly						
G-33	Tension Control Plate Assembly						
G-33-13	Tension Spring						
G-34	Spring						
H- 7	Knee Lifter Connecting Rod						
H- 8	Pulley						
H- 9	Pulley						
H-10	Washer						
H-11	Bolt						
H-13	Vertical Feed Eccentric Wheel Assembly						
H-19	Spring						
H-21	Bobbin Tension Spring						
H-22	Rotary Hook						
H-27	Timing Belt Pulley Lower Assembly						
J- 4	Thread Presser Spring						
J-46	Tension Release Rock Lever Assembly						
J-58	Stopper						
J-59	Washer						
J-60	Screw						
K- 9	Spring						
K-18	Thread Wiper Solenoid						
K-27	Switch						
K-33	Thread Wiper Solenoid						
K-34	Switch						
L- 3	Spring						
L-15	Knife Driving Cam						
L-32	Reverse Solenoid Assembly						

Ref. No.	Name of Parts	Sub Class Gauge	-403		-405	-503		-505
			3/16	1/4	1/4	3/16	1/4	1/4
E-42	Washer			100197-0-02	X			
E-43	Screw			105351-0-02				
E-45	Oil Gauge							
E-46	Oil Pipe							
E-51	Rotary Hook Base, Right							
F- 1	Oil Reservoir Plate Assembly			112762-0-01			112762-0-01	
F-23	Oil Tube							
F-24	Wick							
F-25	Oil Tube							
F-26	Wick							
F-27	Oil Tube							
F-28	Wick							
F-29	Oil Tube							
F-30	Wick							
F-31	Oil Tube							
F-32	Wick							
F-33	Oil Tube							
F-34	Wick							
F-37	Oil Pipe Supporter							
F-38	Oil Felt							
F-51	Oil Pan Plate Assembly							
F-52	Spring							
F-53	Stop Ring							
F-54	Wick Presser Plate							
F-55	Screw							
G- 1	Arm Thread Guide, Center		112658-0-01			112658-0-01		
G- 3	Thread Guide Assembly				148656-0-01 X			148656-0-01
G- 8	Cord Holder			148818-0-01	X			
G- 9	Screw			009670-6-12				
G-32	Knee Lifter Assembly			148674-0-01	X			
G-33	Tension Control Plate Assembly		181756-0-01		181755-0-01 X	181756-0-01		181755-0-01 X
G-33-13	Tension Spring		118317-0-01	X	148672-0-01	118317-0-01 X		148672-0-01
G-34	Spring					149768-0-01		
H- 7	Knee Lifter Connecting Rod			148484-0-01	X			
H- 8	Pulley			148617-0-01				
H- 9	Pulley					149062-0-01 X		
H-10	Washer					025770-2-32		
H-11	Bolt					149569-0-01		
H-13	Vertical Feed Eccentric Wheel Assembly		148804-0-01			148804-0-01		
H-19	Spring			148726-0-01				
H-21	Bobbin Tension Spring		148602-0-01 X		148601-0-01	148602-0-01 X		148601-0-01
H-22	Rotary Hook		151016-0-01		148618-0-01	151016-0-01		148618-0-01
H-27	Timing Belt Pulley Lower Assembly			148803-0-01 X				
J- 4	Thread Presser Spring		148593-0-00 X		148594-0-00 X	148593-0-00 X		148594-0-00 X
J-46	Tension Release Rock Lever Assembly			148619-0-01				
J-58	Stopper					149282-0-01		
J-59	Washer					100645-0-03		
J-60	Screw					009681-0-12		
K- 9	Spring		148526-0-01 X		148527-0-01 X	148526-0-01 X		148527-0-01 X
K-18	Thread Wiper Solenoid			BROTHER MOTOR SPEC. 148509-0-01	X		BROTHER MOTOR SPEC. 148509-0-01	X
K-27	Switch			BROTHER MOTOR SPEC. 146121-0-00	X		BROTHER MOTOR SPEC. 146121-0-00	X
K-33	Thread Wiper Solenoid			EFKA MOTOR SPEC. 149246-0-01			EFKA MOTOR SPEC. 149246-0-01	
K-34	Switch			EFKA MOTOR SPEC. 146913-0-00	X		EFKA MOTOR SPEC. 146913-0-00	
L- 3	Spring		148571-0-01 X		148569-0-01		148571-0-01 X	
L-15	Knife Driving Cam		148540-0-01 X		148541-0-01			
L-32	Reverse Solenoid Assembly			BROTHER MOTOR SPEC. 148636-0-01	X			

Ref. No.	Name of Parts	Sub Class Gauge	-1	-3					-5		
			3/16	3/16	1/4	1/8	5/16	3/8	1/8	1/4	5/16
L-34	Screw										
L-37	Screw										
L-47	Solenoid Assembly										
L-56	Screw										
L-57	6P Connector										
L-58	Connector Cap										
L-61	Nylon Connector										
L-62	Connector Cap										
L-66	Thread Trimmer Solenoid Assembly										
L-68	Thread Trimmer Solenoid Assembly										
L-69	Solenoid Assembly										
L-70	Reverse Solenoid Assembly										
M- 1	Screw										
M- 2	Synchronizer Assembly #4										
M- 3	Synchronizer Holder Stud										
M- 4	Slip Ring Support										
M- 5	Screw										
P - 1	Synchronizer Assembly #6										
R- 2	Presser Foot Lifter Cord Assembly										
R- 3	Screw										
R- 4	Washer										
R- 5	Washer										
R- 6	Nut										
R- 7	Bead Band										
Q- 1	Valve Box Assembly										
Q- 2	Screw										
Z- 7	Needle DPX5	X	107415-0-11			107415-0-14		X		107415-0-22	
Z- 8	Bobbin		112781-0-01			112781-0-01				112781-0-01	X
Z-10	Felt	X	114941-0-01			114941-0-01				114941-0-01	
Z-11	Head Rest		100477-0-01			100477-0-01				100477-0-01	
Z-23	Head Hinge										
Z-24	Washer										
Z-25	Screw										
Z-26	Earth Wire										
Z-27	Allen Wrench										
Z-28	Spanner 3										
Z-29	Allen Wrench (2 mm)										
Z-30	Spring										
Z-31	Head Rest										

Ref. No.		-3				
		5/32	1/2	5/8	1/4	1/2
L-34	Screw					
L-37	Screw					
L-47	Solenoid Assembly					
L-56						
L-57	6P Connector					
L-58	Connector Cap					
L-61	Nylon Connector					
L-62	Connector Cap					
L-66	Thread Trimmer Solenoid Assembly					
L-68	Thread Trimmer Solenoid Assembly					
L-69	Solenoid Assembly					
L-70	Reverse Solenoid Assembly					
M- 1	Screw					
M- 2	Synchronizer Assembly #4					
M- 3	Synchronizer Holder Stud					
M- 4	Slip Ring Support					
M-5	Screw					
P- 1	Synchronizer Assembly #6					
R- 2	Presser Foot Lifter Cord Assembly					
R- 3	Screw					
R- 4	Washer					
R- 5	Washer					
R- 6	Nut					
R- 7	Bead Band					
Q- 1	Valve Box Assembly					
Q- 2	Screw					
Z- 7	Needle DPX5			107415-0-14	X	
Z- 8	Bobbin			112781-0-01		
Z-10	Felt			114941-0-01	X	
Z-11	Head Rest			100477-0-01		
Z-23	Head Hinge					
Z-24	Washer					
Z-25	Screw					
Z-26	Earth Wire					
Z-27	Allen Wrench					
Z-28	Spanner 3					
Z-29	Allen Wrench (2 mm)					
Z-30	Spring					
Z-31	Head Rest					

Ref. No.	Name of Parts	Sub Class Gauge	-403		-405	-503		-505
			3/16	1/4	1/4	3/16	1/4	1/4
B14 L-34	Screw			X 009682-5-12			009782-5-12	
L-37	Screw			148764-0-01			148764-0-01	
L-47	Solenoid Assembly			BROTHER MOTOR SPEC. 148648-0-01				
L-56	Screw			110171-0-01 X			110171-0-01	
L-57	6P Connector			BROTHER MOTOR SPEC. 146118-0-00				
L-58	Connector Cap			BROTHER MOTOR SPEC. 145596-0-01				
L-61	Nylon Connector			BROTHER MOTOR SPEC. 145681-0-00			BROTHER MOTOR SPEC. 145681-0-01	
L-62	Connector Cap			BROTHER MOTOR SPEC. 146119-0-00			BROTHER MOTOR SPEC. 146119-0-00	
L-66	Thread Trimmer Solenoid Assembly			BROTHER MOTOR SPEC. 148542-0-01 X				
L-68	Thread Trimmer Solenoid Assembly			EFKA MOTOR SPEC. 149245-0-01 X				
L-69	Solenoid Assembly			EFKA MOTOR SPEC. 149244-0-01 X				
L-70	Reverse Solenoid Assembly			EFKA MOTOR SPEC. 149243-0-01 X				
B12 M-1	Screw			BROTHER MOTOR SPEC. 009711-4-12			BROTHER MOTOR SPEC. 009711-4-12	
M-2	Synchronizer Assembly #4			BROTHER MOTOR SPEC. 218931-0-01 X				
M-3	Synchronizer Holder Stud			148615-0-01			148615-0-01	
M-4	Slip Ring Support			EFKA MOTOR SPEC. 148825-0-01			EFKA MOTOR SPEC. 148825-0-01	
M-5	Screw			EFKA MOTOR SPEC. 009711-4-12			EFKA MOTOR SPEC. 009711-4-12	
B14 P-1	Synchronizer Assembly #6						BROTHER MOTOR SPEC. 219957-0-01 X	
B14 R-2	Presser Foot Lifter Cord Assembly						BROTHER MOTOR SPEC. 146160-0-01 X	
R-3	Screw						BROTHER MOTOR SPEC. 002303-0-06 X	
R-4	Washer						BROTHER MOTOR SPEC. 025030-2-33 X	
R-5	Washer						BROTHER MOTOR SPEC. 028030-2-43 X	
R-6	Nut						BROTHER MOTOR SPEC. 021300-1-03	
R-7	Bead Band						BROTHER MOTOR SPEC. 144189-0-01 X	
B15 Q-1	Valve Box Assembly						BROTHER MOTOR SPEC. 149153-0-01 X	
Q-2	Screw						BROTHER MOTOR SPEC. 100666-0-02 X	
B24 Z-7	Needle DPX5		107415-0-14 X		107415-0-22 X	107415-0-14 X		107415-0-22 X
Z-8	Bobbin			148603-0-01 X			148603-0-01 X	
Z-10	Flet							
Z-11	Head Rest							
Z-23	Head Hinge			150557-0-01 X			150557-0-01	
Z-24	Washer			025680-2-34			025680-2-34	
Z-25	Screw			009680-6-13			009680-6-13	
Z-26	Earth Wire		X	145946-0-01			145946-0-01	
Z-27	Allen Wrench		X	149570-0-01			149570-0-01	
Z-28	Spanner 3		X	142721-0-01			142721-0-01	
Z-29	Allen Wrench (2 mm)		X	142002-0-01			142002-0-01	
Z-30	Spring		X	148570-0-01		149175-0-01 X		
Z-31	Head Rest			149010-0-00 X			149010-0-00	

Ref. No.	Sub Class		-1	-3	-5	-403	-405	-503	-505
Name of Parts	Q'ty								
E-14	Screw	Q'ty		1		2		1	
F-42	Tube Holder	Q'ty		4			3		
F-43	Screw	Q'ty		4			3		
F-44	Tube Holder	Q'ty		2			1		
F-45	Screw	Q'ty		2			1		
G- 6	Tube Holder	Q'ty							
G- 7	Screw	Q'ty				2		3	
L- 3	Spring	Q'ty				2		3	
Z-20	Head Hinge	Q'ty		2		2		1	
							1		

Ref. No.	Sub Class		-400			-500			
Name of Parts	Volt		200V	380V	400V	200V	220V	380V	400V
S- 1	Control Box Assembly	3	219208-0-01	219707-0-01	219704-0-01	219946-0-01	220091-0-01	220093-0-01	220095-0-01
S- 1-4	Transformer	3	219210-0-00	219708-0-00	219705-0-00	219210-0-00	220097-0-00	219708-0-00	219705-0-00
T- 6	Motor Assembly	3	218830-0-01	219497-0-01	219507-0-01	218830-0-01	219972-0-01	219497-0-01	219507-0-01
T- 6	Motor Assembly	3							220376-0-01
T- 6-44	Sub Motor Assembly	3	218906-0-01						

Ref. No.	Name of Parts	Parts No.	Sewing Speed			
			50Hz		60Hz	
			High Speed	Slow Speed	High Speed	Slow Speed
T-7	Pulley G 50	212041-0-01			2290	110
T-7	Pulley G 55	212042-0-01			2520	120
T-7	Pulley G 60	212425-0-01	2280	109	2750	130
T-7	Pulley G 65	211003-0-01	2470	118	2950	140
T-7	Pulley G 70	213073-0-01	2660	127	3150	116
T-7	Pulley G 75	210236-0-01	2850	136	3400	126
T-7	Pulley G 80	212426-0-01	3040	113	3600	133
T-7	Pulley G 85	210237-0-01	3230	120	3800	140
T-7	Pulley G 90	211546-0-01	3420	127		
T-7	Pulley G 95	214163-0-01	3600	133		
T-7	Pulley G 100	210238-0-01	3800	141		

I N D E X

Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark
001630-4-02	J - 6		009711-6-12	N-17		025040-3-35	T- 6-98-15		100659-0-01	Z-13-14	
001670-6-12	F-15			N-63		025050-1-34	Q- 1- 6		100661-0-01	Z-13-18	
002300-5-05	L-46		009761-4-12	D-57		025050-1-35	T- 6-55		100662-0-01	Z-13-22	
002300-6-03	L-50		009781-4-12	L-24		025050-2-33	Z-12- 3		100666-0-02	Q- 2	
002300-8-05	S - 1-18		009781-8-12	B-47		025050-2-35	T- 6- 2			Z-14	
002301-0-03	Q - 1-10			D-45		025050-3-35	T- 9			Z-15- 2	
002303-0-06	R- 3		009782-5-12	L-34		025060-1-32	D-58		100887-0-01	Z- 5	
002400-6-05	T - 6-98-14		011060-6-13	T - 6-19		025060-3-35	M- 2-11		101268-0-03	B-48	
002400-8-03	Q- 1-19		011711-4-12	E-30			P- 1-11		101572-1-01	Z- 2	
	L-64		011802-0-12	L-27		025100-2-36	T- 6-29		101706-0-01	B-11	
002401-0-63	T - 6-10		012061-2-22	T - 6-98-12		025630-1-32	J - 5			D-34- 2	
002500-8-06	T - 6-45		012061-8-22	T - 6-44-11		025680-2-34	Z-24			D-47	
002501-0-64	Q- 1- 3		013080-8-13	T - 6-13		025710-2-32	E-25			E-18	
	Q- 1- 5		013710-7-12	N-13			N-18		102731-0-04	B-37- 8	
002501-6-05	T - 6-38		013761-4-10	B-19		025750-1-32	Z-15- 3			H- 1- 8	
	T - 6-68			B-23		025770-2-32	H-10		103896-0-02	Z- 9	
002503-5-05	T - 6-89			B-31		028030-2-43	Q- 1-13		104478-0-01	B-32	
005671-2-12	E-11			D-41			R- 5		104908-0-04	C-27	
007401-0-13	K- 2			D-49			S - 1-17			D-51	
007500-6-02	L-31		013771-2-12	B-27		028040-2-43	T - 6-11		105161-0-02	E-20	
007500-8-02	L-35		013771-2-12	E-14			T - 6-61			N-48	
007501-0-03	Z-12-14		013780-7-10	E- 9			T - 6-98-13		105173-0-04	N-44	
008400-5-64	Q- 1- 8		014061-0-22	T - 6-97		028050-2-43	Q- 1-15		105234-0-01	E-47	
008400-8-06	T - 6- 9		014760-6-22	D-20			T - 6-26		105288-0-01	H- 3	
009660-4-12	F-41			J -56			T - 6-46		105351-0-02	B-50	
009660-7-12	N-43		014770-6-22	J -13			T - 6-56			E-43	
009670-5-12	F-36			L-17			Z-12-11		106030-0-01	C-30	
	F-45			N-31		028060-2-34	M- 2-12		106120-0-02	A- 4	
	B-52			N-33			P- 1-12		106640-0-01	F-12	
	F-43		015771-0-12	D-22		028060-2-43	T - 6-98-18		107030-0-01	B-37- 9	
009670-5-12	G-29			J -49		028080-2-43	T - 3			H- 1-10	
009670-6-12	A-11		015771-2-12	B-36		028100-2-43	T - 6-30		107155-0-01	E-28	
	A-18			E-13		028680-2-42	Z-15- 7		107231-0-02	A- 6	
	F- 9		016500-8-22	Q- 1-17- 7		028680-2-43	E-48		107278-0-02	D-56	
	G- 7		017502-8-03	Z-12- 4		031451-6-03	S - 1-13		107407-0-03	K- 4	
	G- 9			Z-12-18		031452-2-03	Z-12-16			K- 7	
009670-8-12	B-37- 3		018061-6-22	L-29			Z-12-20		107415-0-11	B-36	
	C-10		018401-4-22	T - 6-60		031624-0-05	S - 4			Z- 7	
	E-21		018502-2-23	T - 6-76		047501-2-42	C-28- 3		107415-0-14	B-36	
	H- 1- 3		018502-5-22	T - 6-57		048030-3-42	L-20			Z- 7	
	N-46		021060-3-05	T - 6-44-12			N-40		107415-0-19	B-36	
	N-49			T - 6-73			N-56- 6			Z- 7	
009671-0-12	F-55			T - 6-98- 9		048040-3-42	L-40		107415-0-02	B-36	
	K-25		021080-1-06	T - 4			N-14			Z- 7	
009679-3-12	F- 4		021100-2-06	T - 6-28			N-25		107419-0-02	L-36	
	K-22		021300-1-03	Q- 1-14			N-61		107794-0-01	E-32	
	Z-13-20			R- 6		048060-3-42	D-43			E-34	
009680-6-13	Z-25		021500-1-03	Z-12- 6- 3		048070-3-42	D- 3		108254-0-01	A-15-20	
009680-7-12	C- 4- 2			Z-12-12		048080-3-42	K-30			G-33- 5	
	D-24			Z-12-15		072060-8-60	T - 6-44- 3		108263-0-01	A-15-11	
	H- 4- 2		021500-1-63	Q- 1-16			T - 6-70			G-33-15	
009680-8-12	Z-15- 8		021660-1-03	D-55		072620-1-61	T - 6-86		108264-0-01	A-15-10	
009681-0-12	D-35- 3		021670-1-02	A-15- 7		072620-2-60	T - 6-51- 4		108265-0-01	A-15- 8	
	J-60			G-33-25		072620-3-60	T - 6-33			G-33- 7	
009681-0-14	A- 9			J -34		072620-4-60	B-29		108266-0-01	A-24	
	A-16			N-55		081016-0-70	F-47		108546-0-01	D-19- 2	
009681-4-14	K-28		021710-2-12	E-26		100022-0-05	L - 5		108549-0-01	D-10	
009681-6-13	A- 8		025030-1-33	Q- 1-11		100032-0-02	E-44		108960-0-04	A-25	
009710-8-12	D-27		025030-2-32	L-45		100032-0-03	A-36			A-27	
	F-18		025030-2-33	L-49		100064-0-02	A-19			A-29	
	J -11			R- 4		100078-0-03	L-26			G- 2	
	L-60		025030-3-35	M- 2- 3		100197-0-02	E-42		109714-0-00	F-49	
009711-0-12	F-39			P - 1- 3		100242-0-03	D-61			Z-19	
	J -17			S - 1-16		100248-0-01	B-22		110171-0-01	J -41	
009711-0-12	L- 2		025040-1-35	M- 2- 9		100250-0-01	B-15			L-56	
	L-65			M- 2-15		100260-0-01	C - 3		110436-0-01	Z- 1	
	N-35			P - 1- 9		100289-0-03	L - 9		112072-0-01	D- 7	
009711-2-12	N - 2			P - 1-15		100320-0-02	E-53		112560-0-01	A - 7	
009711-4-12	J -19			T - 6-98-26		100328-0-01	D-16		112561-0-02	A - 5	
	J -54		025040-1-73	T - 6-12		100366-0-02	Z-13- 2		112566-0-01	A-10	
	L-14		025040-2-33	K- 3		100401-0-01	Z-13- 9		112569-0-01	Z-21	
	M- 1			Q- 1-18		100477-0-01	Z-11		112572-0-01	B-20	
	M- 5		025040-2-35	S - 1- 6		100645-0-03	E-49		112573-0-01	B-17	
	N-58		025040-3-35	M- 2- 6			J -59		112574-0-00	B-13	
009711-4-13	K-14			P - 1- 6		100657-0-01	Z-13- 6		112576-0-01	B-16	

Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark
112577-0-01	B- 8		112661-0-01	(8)W- 3		114297-0-01	F-35		118317-0-01	A-15- 9	
112578-0-01	B- 3			(17)Y- 3		114483-0-01	Z-16			G-33-13	
112579-0-01	B- 1		112666-0-00	E- 8- 1		114486-0-01	F-50		118320-0-01	A-15-15	
112586-0-01	B-24		112667-0-01	E- 8- 2		114680-0-01	B-21			G-33-11	
112587-1-01	B-37		112668-0-01	E-10		114693-0-01	B- 6		118713-0-01	D-29	
112588-0-01	B-37-10		112684-0-01	E- 6- 2		114909-0-00	C-25			L-502	
	H- 1- 9			E-16		114941-0-01	A-30			N-10	
112589-1-00	B-37- 6			H-13- 2			Z-10		118746-0-01	D- 6	
112590-0-01	B-37- 7		112685-0-01	E-39		114947-0-01	B-34		118747-0-01	D- 8	
	H- 1- 7		112686-0-01	E-41			(7)V- 2		118752-0-01	D-21	
112591-0-01	B-37- 1		112687-0-01	E-31			(16)Y- 2		118837-0-01	Z- 3	
112592-0-01	B-37- 2		112690-0-01	E-33		114948-0-01	C-13		118853-0-01	D- 9	
	H- 1- 2		112691-0-01	E-37			(7)V- 1			D-33	
112593-0-01	B-37- 4		112692-0-01	E-23			(16)Y- 1		118865-0-01	D-23	
	H- 1- 4		112694-0-01	E-22		114950-0-01	A-35		118944-0-01	(14)X- 2	
112594-0-01	B-39		112695-0-01	E-27			(7)V- 4		118945-0-01	(14)X- 4	
112595-0-00	B-49		112696-0-00	A-14		114951-0-01	D-62		118946-0-01	(14)X- 1	
112596-0-01	B-44			E-29			(7)V- 3		118947-0-01	(14)X- 3	
112597-0-01	B-45		112697-0-01	E-19			(16)Y- 3		118954-0-00	D-38- 2	
112598-0-01	B-46		112698-0-01	E- 8		115177-0-01	J-42			H-15- 2	
112599-0-01	B-34		112699-0-01	E-35		115249-0-01	E- 3		123882-0-01	J-45	
	(4)U- 2		112700-0-01	E-36		115287-0-00	E-46		140525-0-01	B- 3	
	(2)V- 2		112701-0-01	E-51		116010-0-01	A-42		140527-0-01	A-12	
	(5)V- 2		112702-0-01	E-52		116276-0-01	C-28		140538-0-00	Q- 1-17-10	
112600-0-01	B-34		112709-0-01	A-17		116283-0-01	D-63		140539-0-00	Q- 1-17- 8	
	(2)U- 2		112712-0-01	A-15-16		116323-0-01	B-35		140540-0-00	Q- 1- 1	
	(3)U- 2			G-33-12		116488-0-01	(12)X- 2		140542-0-01	Q- 1-17- 5	
	(6)V- 2		112714-0-00	A-31		116489-0-01	B-34		140543-0-00	Q- 1-17-13	
	(15)X- 2		112715-0-01	A-28			(9)W- 2		140544-0-00	Q- 1-17-12	
112601-0-01	B-34		112716-0-01	F-16		116490-0-01	(11)W- 2		140620-0-01	L-25	
	(8)W- 2		112717-0-01	F-17		116491-0-01	B-34			N-15	
	(17)Y- 2		112719-0-01	B-40			(10)W- 2			N-20	
112603-0-01	A-35		112720-0-01	B-41		116492-0-01	(13)X- 2			N-64	
	(5)V- 4		112721-0-01	B-37- 5			C-13		140678-0-00	Q- 1- 2- 5	
112604-0-01	A-35			H- 1- 5			(16)W- 1		140680-0-00	Q- 1-17- 4	
	(6)V- 4		112723-0-01	F-10		116499-0-01	(11)W- 1		140682-0-01	Q- 1-17- 2	
112605-0-01	A-35		112724-0-01	F- 6		116500-0-01	(12)X- 1		140693-0-00	R- 2- 7	
	(8)W- 4		112725-0-01	F- 5		116501-0-01	(13)X- 1		140948-0-01	R- 2- 1	
112606-0-01	G-12		112728-0-01	B-38		116502-0-01	(9)W- 1		140950-0-00	R- 2- 2	
112607-0-01	A-40		112730-0-01	F- 3		116503-0-01	(9)W- 4		141439-0-01	N-11	
112610-0-01	A-41		112734-0-01	B-18		116504-0-01	(13)X- 4		141494-0-01	J-21	
112614-0-01	C- 1		112735-0-00	B-10		116505-0-01	(11)W- 4			L-11	
112615-0-01	C- 2		112735-0-01	B- 4		116506-0-01	A-35			N- 6	
112616-0-01	C- 9		112736-0-00	F-22			(10)W- 4		141748-0-01	J-47	
112618-0-01	C- 7		112737-0-01	F-23		116507-0-01	(12)X- 4		142002-0-01	Z-29	
112619-0-01	C- 8		112738-0-00	F-24		116508-0-01	(13)X- 3		142037-0-00	Q- 1-17- 9	
112623-0-01	C-21		112739-0-01	B-51		116509-0-01	(9)W- 3		142038-0-01	Q- 1-17-11	
112624-0-01	C-19		112741-0-01	F-38		116510-0-01	D-62		142243-0-01	Z- 4	
112625-0-01	C-15		112743-0-01	F-42			(10)W- 3		142268-0-01	G- 6	
112626-0-01	C-17		112744-0-01	F-44		116511-0-01	(11)W- 3		142349-0-00	Q- 1- 2- 1	
112627-0-01	C-22		112745-0-01	G-28		116512-0-01	(12)X- 3		142721-0-01	Z-28	
112628-0-01	C-23		112751-0-02	A-38		116558-0-01	F-46		142746-0-02	D-14	
112629-0-01	C-18		112753-0-01	F-20		116699-0-00	B-42		142747-0-02	D-15	
112630-0-01	C-16		112754-0-01	F-19		117134-0-01	D-62		143488-0-01	R- 2- 3	
112631-0-01	C- 6		112755-0-01	E-40			(4)V- 3		143489-0-01	R- 2- 4	
112632-0-01	C-24		112756-0-01	E-50		117158-0-01	A-35		143549-0-00	K-27- 3	
112634-0-02	C-26		112757-0-01	E-45			(4)V- 4			L-32- 3	
112636-0-01	C-28-2		112758-0-01	F-21		117160-0-01	A-36			L-47- 3	
112638-0-01	C-13		112759-0-01	D-60			J-31			L-66- 4	
	(5)V- 1		112760-0-01	B-28		117200-0-01	F-51			R- 2- 5	
112642-0-01	C-13		112762-0-01	F- 1		117203-0-01	F-54		143591-0-01	D-53	
	(6)V- 1		112763-0-01	C-11		117204-0-01	F-52		143594-0-01	D-35- 2	
	(15)X- 1		112764-0-01	B-43		117205-0-01	F-53		143597-0-01	D-37	
112645-0-01	C-13		112781-0-01	E-38		117281-0-01	C-13		143598-0-01	D-11	
	(8)W- 1			Z- 8			(4)V- 1		143608-0-01	D-19	
	(17)Y- 1		113014-0-00	B- 9		117367-0-01	A-35		143609-0-01	D-25	
112656-0-01	D-59		113024-0-00	B- 7			(15)X- 4		143610-0-01	D-26	
112658-0-01	A-26		113050-0-01	C-14		117369-0-01	A-35		143611-0-01	D-38	
	G- 1		113074-0-01	D-46			(16)Y- 4		143612-0-00	D-38- 1	
112659-0-01	D-62		113362-0-01	E- 4		117666-0-01	N-54		143613-0-01	D-38- 3	
	(5)V- 3		113380-0-01	C-29		117963-0-01	Z-13			H-15- 3	
112660-0-01	D-62		113386-0-00	A-37		117969-0-01	Z-13-16		143616-0-01	D-42	
	(6)V- 3		113524-0-01	F-13		117970-0-01	Z-13-15		143657-0-01	F-11	
	(15)X- 3		113526-0-01	F- 8		118170-0-01	C-20		143660-0-00	F-26	
112661-0-01	D-62		114297-0-01	F- 7		118171-0-01	B- 5		143661-0-00	F-25	

Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark
143662-0-00	F-28		148483-0-01	C- 5		148592-0-01	L- 7		148695-0-01	C-13	
143668-0-00	F-30		148484-0-01	H- 7		148593-0-00	J- 4		(3)U- 1		
	F-32		148486-0-01	H- 6		148594-0-00	J- 4		148697-0-01	D-62	
143669-0-00	F-29		148487-0-01	D-28		148595-1-01	H- 1		148698-0-01	D-62	
	F-31		148488-0-01	D- 2		148596-1-00	H- 1- 6		148699-0-01	D-62	
143670-0-00	F-34		148489-0-01	D- 5		148597-0-01	H- 1- 1		148700-0-01	D-62	
143671-0-00	F-33		148490-0-01	H-16		148598-0-01	H- 2		148702-0-01	D-62	
143673-0-01	F-40		148491-0-01	H-17		148599-0-01	G-13		(1)U- 3		
143766-0-01	D- 1		148492-0-01	H-18		148601-0-01	H-21		148704-0-01	D-62	
143910-0-01	Z-22		148493-0-01	D-40		148602-0-01	H-21		(2)U- 3		
143959-1-04	Q- 1- 2		148494-0-01	D-48		148603-0-01	H-20		148705-0-01	D-62	
143960-1-01	Q- 1- 2-3		148495-0-01	D-44			Z- 8		(3)U- 3		
144189-0-01	R- 7		148496-0-00	H-15-1		148604-0-00	G-14		148708-0-01	(1)U- 4-2	
144222-0-01	Z-32		148501-0-01	D-30		148605-0-01	H- 5		(2)U- 4-2		
144614-0-01	B-30		148502-0-00	E- 7		148606-0-01	J-51		(3)U- 4-2		
144678-0-01	A-15		148503-0-00	E- 2		148607-0-01	J-48		148709-0-01	(1)U- 4-3	
144680-0-01	A-15-22		148505-0-01	H-12		148608-0-01	J-52		(2)U- 4-3		
	G-33- 9		148508-0-01	K-15		148609-0-01	J-57		(3)U- 4-3		
144681-0-01	A-15-23		148509-0-01	K-18		148610-0-01	G-15		148710-0-01	A-35	
	G-33- 8			K-18-3		148611-0-01	G-10		148712-0-01	A-35	
144682-0-01	A-15-21		148511-0-01	K-18-2		148612-0-01	K-32		148714-0-01	A-35	
	G-33- 6		148513-0-01	K- 1		148613-0-01	K-32- 1		148718-0-01	A-35	
144683-0-01	A-15-14		148514-0-01	K-21		148614-0-01	G- 4		(1)U- 4		
	G-33-10		148515-0-01	K-16		148615-0-01	M- 3		148722-0-01	A-35	
144685-0-01	A-15- 3		148516-0-01	K- 6		148617-0-01	H- 8		(2)U- 4		
144686-0-01	A-15- 5		148517-0-00	K- 8		148618-0-01	H-22		148724-0-01	A-35	
144687-0-01	A-15- 6		148518-0-00	K- 5		148619-0-01	J-46		(3)U- 4		
144688-0-01	A-15- 4		148521-0-01	K-17		148623-0-01	J-44		148726-0-01	H-19	
144689-0-01	A-15- 2		148526-0-01	K- 9		148625-0-01	J-39		148727-0-01	H-23	
144703-0-01	A-15-13		148527-0-01	K- 9		148628-0-01	J-37		148728-0-01	H-25	
144704-0-01	A-15-12		148528-0-01	U- 1			J-40		148729-0-01	G-30	
144823-0-01	A-32		148529-0-01	K-13		148629-0-01	J-38		148730-0-01	G-16	
144882-0-01	(17)Y- 4		148530-0-01	K-12		148630-0-01	J-36		148731-0-00	G-17	
144903-0-01	E-37		148531-0-01	J-10		148631-0-01	J-32		148732-0-01	G-31	
144910-0-01	Q- 1-12		148535-0-01	J- 7		148632-0-01	J-33		148733-0-01	G-20	
145277-1-03	Z-17		148536-0-01	J- 8		148633-0-01	A- 3			G-26	
145328-0-01	D-35- 4		148537-0-01	J- 9			J-29		148734-0-00	G-27	
145446-0-01	Z-13-10		148538-0-01	J- 2		148634-0-01	J-30		148735-0-01	G-22	
145502-0-01	D-17		148539-0-01	J- 3		148635-0-01	J-28		148736-0-00	G-23	
145596-0-01	L-58		148540-0-01	L-15		148636-0-01	L-32		148737-0-01	G-24	
145681-0-00	L-61		148541-0-01	L-15		148637-0-01	L-32- 2		148738-0-00	G-25	
145721-0-01	A-39		148542-0-01	L-66		148638-0-01	J-55		148740-0-00	G-21	
145827-0-01	Q- 1-17-3		148545-0-01	L-66-2		148640-0-01	J-53		148741-0-01	G-18	
145946-0-01	Z-26		148546-0-01	K-19		148641-0-01	L-55		148742-0-00	G-19	
146080-0-00	K-20			L-67		148642-0-01	L-41		148743-0-01	D-36	
	K-26			N-37		148643-0-01	L-33		148744-0-01	L-44	
146118-0-00	L-57		148547-0-01	J-22		148648-0-01	L-47		148762-0-01	F-14	
146119-0-00	L-62		148548-0-01	L-18		148650-0-01	L-47- 2		148763-0-01	L-51	
146120-0-01	K-23		148553-0-01	L-12		148651-0-01	L-48		148764-0-01	L-37	
146121-0-00	K-27		148554-0-01	L- 8		148652-0-01	L-38		148765-0-01	L-42	
146124-0-01	K-31		148555-0-01	J-23		148653-0-01	L-43		148767-0-01	L-54	
146125-0-01	K-29		148557-0-01	J-26		148654-0-01	J-43		148768-0-01	J-35	
146128-0-00	K-32- 2		148559-0-00	J-24		148655-0-01	L-59		148770-0-01	K-10	
146141-0-01	B-14		148560-0-01	L-30		148656-0-01	G- 3		148771-0-01	D-35	
146153-0-01	N- 9		148561-0-01	L-63		148662-0-01	G-33-21		148801-0-01	H-15	
	N-24		148562-0-01	L-19		148663-0-01	G-33-19		148802-0-01	D-39	
	N-60		148567-0-01	L-21		148664-0-01	G-33-20		148803-0-01	H-27	
146160-0-01	R- 2		148568-0-01	L-22		148665-0-01	G-33-18		148804-0-01	H-13	
146171-0-00	Q- 1-22		148569-0-01	L- 3		148666-0-01	G-33-24		148818-0-01	G-18	
146598-0-01	A- 2		148570-0-01	Z-30		148667-0-01	G-33-23		148819-0-01	H-23	
146913-0-00	K-34		148571-0-01	L- 3		148668-0-01	G-33-22		148821-0-01	H-28	
146699-0-00	N-38		148572-0-01	J-12		148669-0-01	G-33-14		148825-0-01	M- 4	
147060-0-01	Z-12- 8		148573-0-01	J-14		148670-0-01	G-33-17		148835-0-01	H- 4	
147560-0-01	A-35		148574-0-01	J-15		148671-0-01	G-33-16		148882-0-01	Z-20	
147561-0-01	D-62			L-16		148672-0-01	A-15- 9		148890-1-01	Z-18	
147562-0-01	C-13			N-30			G-33-13		148968-0-01	Q- 1-4	
147856-0-02	Z-15- 5		148575-0-01	L-13		148674-0-01	G-32		148977-0-01	D-54	
147858-0-01	A-15- 6		148577-0-01	J-18		148679-0-01	C-13		149001-0-01	D-50	
147908-0-01	Z-15		148579-0-01	L- 1		148681-0-01	C-13		149010-0-00	Z-31	
148005-0-01	E-24		148580-0-01	J-16		148685-0-01	C-13		149019-0-01	N-16	
148011-1-01	A-15		148584-0-01	J-20-2		148687-0-01	C-13		149023-0-01	N-19	
148394-0-00	B-33		148585-0-01	J-20			(1)U- 1		149024-0-01	N- 8	
148480-0-01	H-26		148587-0-01	L-10		148689-0-01	C-13		149025-0-01	N- 7	
148481-0-01	H-24		148589-0-01	L- 4		148693-0-01	C-13		149027-0-01	N- 4	
148482-0-01	L-28		148591-0-01	L- 6			(2)U- 1		149030-0-01	N-12	

Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark	Parts No.	Ref. No.	Remark
149031-0-01	N-23		151083-0-01	F-37		214344-0-01	S-2		218891-0-01	T-6-83	
149033-0-01	N-26		151084-0-00	F-27		214897-0-01	T-6-43		218892-0-01	T-6-84	
149034-0-01	N-3		151101-0-01	A-1		215080-0-01	M-2-10		218893-0-01	T-6-67	
149035-0-01	N-1		151145-0-01	E-37-2-1			M-2-16		218894-0-01	T-6-66	
149036-0-01	N-28			H-22-2-1			P-1-10		218895-0-01	T-6-64	
149037-0-01	N-59		151146-0-01	E-37-2-1			P-1-16		218896-0-00	T-6-62	
149040-0-01	N-62			H-22-2-1		215080-0-01	S-1-2		218902-0-01	T-6-59	
149042-0-01	N-57		151320-0-01	D-12			T-6-44-6		218903-0-01	T-6-88	
149043-0-01	N-36		151507-0-01	D-13			T-6-58		218905-0-01	T-6-27	
149049-0-01	N-34		151508-0-01	D-13			T-6-98-11		218906-0-01	T-6-44	
149050-0-01	N-32		151601-0-02	C-28-4		215083-0-01	M-2-2		218907-0-01	T-6-44-4	
149052-0-01	N-52		151602-0-01	D-31			P-1-2		218910-0-00	T-6-44-5	
149055-0-01	N-42		151602-0-02	A-33		215387-0-01	S-1-25		218911-0-01	T-6-44-10	
149056-0-01	N-41			D-31		215491-0-01	T-8		218912-0-00	T-6-44-16	
149056-0-01	N-56-5			L-53		216219-0-00	T-6-54		218913-0-01	T-6-44-1	
149058-0-01	N-56		151604-0-01	C-12		216230-0-01	T-6-98-22		218914-0-00	T-6-44-13	
149061-0-01	N-29			E-5		216232-0-01	T-6-98-17		218915-0-01	T-6-69	
149062-0-01	H-9		151605-0-01	B-2		216233-0-01	T-6-98-4		218916-0-01	T-6-44-18	
149063-0-01	N-27			D-4		216235-0-00	T-6-98-6		218918-0-01	T-6-44-21	
149153-0-01	Q-1			D-39-2		216236-0-01	T-6-98-24		218919-0-01	T-6-44-22	
149155-0-01	Q-1-17		151606-0-01	B-12		216241-0-01	T-6-98-8		218920-0-00	T-6-44-23	
149156-0-01	Q-1-17-1			E-17		216342-0-01	S-1-3		218921-0-01	T-6-44-19	
149157-0-01	Q-1-17-6		180157-0-01	B-25		216247-0-01	T-6-92			T-6-98-2	
149169-0-01	J-1		180164-0-01	E-12		216248-0-01	T-6-91		218922-0-01	T-6-44-17	
149174-0-01	L-39		180321-0-01	D-34		216277-0-01	T-6-87		218923-0-01	T-6-98	
149175-0-01	Z-30		180949-0-01	E-15		216284-0-00	T-6-44-14		218924-0-01	T-6-98-3	
149177-0-01	K-11		180950-0-01	C-4		216286-0-01	T-6-44-9		218925-0-01	T-6-98-20	
149179-0-01	G-11		181486-0-01	E-6		216299-0-01	T-6-44-7		218926-0-01	T-6-98-16	
149241-0-01	N-39		181712-0-01	J-25		216300-0-01	T-6-44-8		218927-0-01	T-6-98-27	
149243-0-01	L-70		181713-0-01	J-27		216346-0-01	S-3		218928-0-01	T-6-96	
149244-0-01	L-69		181755-0-01	G-33		216345-0-00	S-1-14		218929-0-01	T-6-95	
149245-0-01	L-68		181756-0-01	G-33		216351-0-01	S-1-15		218930-0-01	T-6-71	
149246-0-01	K-33		200084-0-02	T-6-5		216364-0-00	S-1-22		218931-0-01	M-2	
149281-0-01	N-53		201656-0-01	T-6-36		216373-0-01	S-1-1		218945-0-01	T-6-98-5	
149282-0-01	J-58		206337-0-02	T-6-93		216380-0-01	T-6-79		218946-0-01	T-6-98-7	
149283-0-00	N-50		210236-0-01	T-7		216625-0-01	T-6-98-1		218947-0-01	T-6-98-23	
149284-0-01	N-51		210237-0-01	T-7		216837-0-01	T-6-90		218951-0-01	T-6-14	
149285-0-01	N-22		210238-0-01	T-7		216870-0-01	S-1-7		218952-0-01	T-6-81	
149286-0-01	N-45		210240-0-01	T-6-77		216880-0-01	M-2-13		219208-0-01	S-1	
149287-0-00	N-47		210421-0-01	T-6-51-6			P-1-13		219210-0-00	S-1-4	
149288-0-01	G-5		210938-0-01	T-6-32		216905-0-01	S-1-23		219211-0-00	S-1-20	
149290-0-01	Q-1-20		210940-0-00	T-6-31		217093-0-01	M-2-7		219212-0-00	S-1-19	
149554-0-01	J-50		210941-0-02	T-6-41			P-1-7		219214-0-01	S-1-26	
149569-0-01	H-11			T-6-51-2		217169-0-00	T-6-50		219225-0-00	S-1-24	
149570-0-01	Z-27		210942-0-02	T-6-42		217280-0-01	T-6-44-20		219405-0-01	T-6-75	
149768-0-01	G-34			T-6-51-1			T-6-65		219474-0-00	T-6-64	
149986-0-01	V-2		210948-0-01	T-6-51-5		218821-0-01	S-1-21		219475-0-00	T-6-85	
149991-0-01	N-5		210965-0-01	T-6-24		218823-0-01	S-1-5		219480-0-01	T-6	
150106-0-01	Z-12-6		210973-0-01	T-1		218830-0-01	T-6		219497-0-01	T-6	
150139-0-01	Z-12-19		211003-0-01	T-7		218831-0-01	T-6-20		219499-0-01	T-6-44	
150151-0-01	Z-12		211528-0-01	T-6-3		218851-0-01	T-6-34		219507-0-01	T-6	
150172-0-01	Z-12-5			T-6-44-15		218860-0-01	T-6-63		219509-0-01	T-6-44	
150175-0-01	Z-12-17			T-6-78		218861-0-01	T-6-15		219704-0-01	S-1	
150179-0-01	Z-12-7			T-10		218861-0-02	T-6-17		219705-0-01	S-1-4	
150180-0-00	Z-12-10		211546-0-01	T-7		218861-0-03	T-6-18		219707-0-01	S-1	
150181-0-01	Z-12-19-2		212041-0-01	T-7		218862-0-01	T-6-8		219708-0-00	S-1-4	
150182-0-00	Z-12-9		212042-0-01	T-7		218863-0-01	T-6-1		219730-0-01	T-6-44	
150188-0-01	Z-12-13		212425-0-01	T-7		218864-0-01	T-6-49		219735-0-01	T-6-44	
15189-0-01	Z-12-19-1		212426-0-01	T-7		218865-0-01	T-6-4		219946-0-01	S-1	
150193-0-01	Z-12-1		212544-0-01	T-6-98-25		218866-0-01	T-6-47		219957-0-01	P-1	
150202-0-01	Z-12-6-2		213073-0-01	T-7		218867-0-01	T-6-48		219972-0-01	T-6	
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150557-0-01	Z-23		213748-0-01	T-6-7		218871-0-01	T-6-37		219986-0-01	T-6-44	
150836-0-01	A-39		213650-0-01	T-2		218872-0-01	T-6-39		220091-0-01	S-1	
151007-0-01	F-48		213750-0-00	T-6-51-3		218873-0-00	T-6-40		220093-0-01	S-1	
151016-0-01	H-22		213752-0-01	T-6-25		218874-0-01	T-6-21		220095-0-00	S-1	
151028-0-01	E-37-1-1		213757-0-02	T-6-80		218875-0-01	T-6-22		220097-0-00	S-1-4	
	H-22-1-1		213760-0-01	T-6-94		218876-0-01	T-6-72		220376-0-01	T-6	
151029-0-01	E-37-2-2		213765-0-01	T-6-23		218877-0-01	T-6-51		290439-0-00	T-6-53	
	H-22-2-2		213792-0-01	T-6-16		218878-0-00	T-6-51-7		403616-0-01	K-24	
151030-0-01	E-37-2-3		213794-0-01	S-1-12		218879-0-01	T-6-51-8		503093-0-01	F-2	
	H-22-2-3		213802-0-01	T-6-35		218881-0-01	T-6-74				
151080-0-01	D-18		213913-0-01	T-6-98-10		218882-0-00	T-6-52				
151081-0-01	D-52		214002-0-01	T-6-98-19		218884-0-00	T-6-85				
151082-0-01	E-1		214163-0-01	T-7		218885-0-01	T-6-82				

