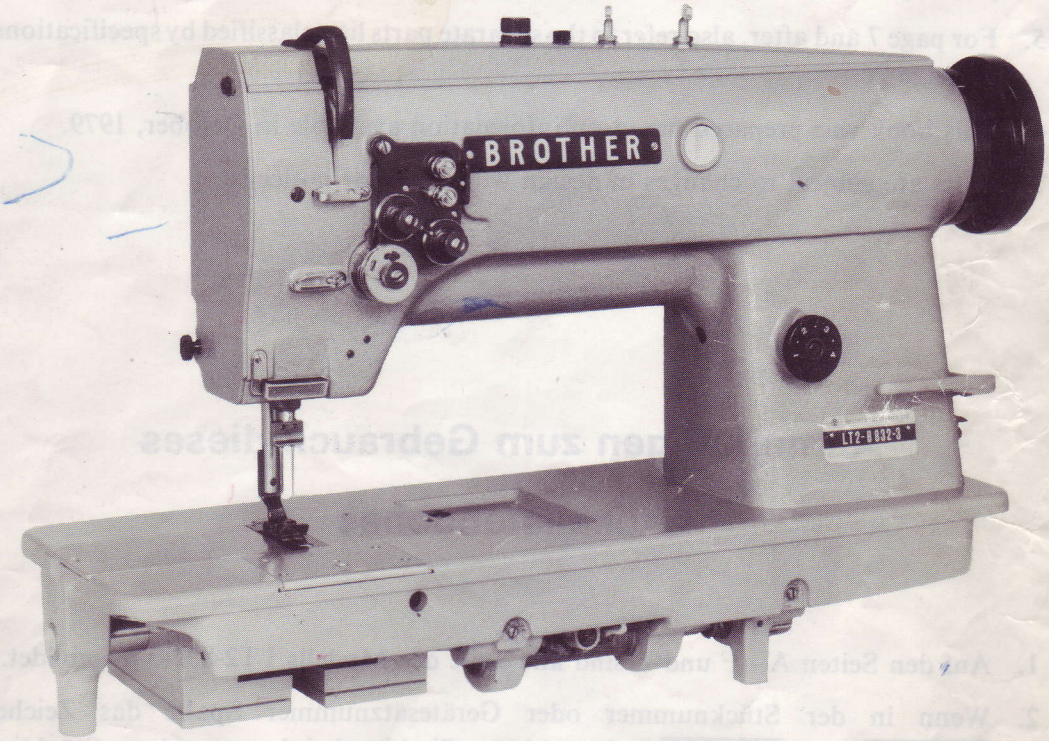
PARTS BOOK

FOR

BROTHER LT2-B832



Twin Needle Needle Feed Lock Stitcher

Twin Needle Feed Lock Stitcher with Automatic Thread Trimmer

BROTHER INDUSTRIES, LTD.

NAGOYA, JAPAN

Notes for using this parts book

1. Pages A~F and Z show all parts for model LT2-832-3.
2. If the symbol [ ] or [000000-0-00] 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 Parts 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 parts together with its paired parts.
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 October, 1979.
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 LT2-832-3 abgebildet.
2. Wenn in der Stücknummer oder Gerätesatznummer Spalte das Zeichen [ ] oder [000000-0-00] 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 Oktober 1979.
5. 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 [000000-0-00] est présent dans la colonne "N° de pièce" ou dans la colonne "N° de ensemble", se référer à la liste de piéces 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 Octobre 1979.
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 modelo LT2-B832-3.
2. De haber el símbolo [ ] o el [000000-0-00] 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 Píeza", quiere decir que no se dispone de dicha pieza sola. Cuando, empero, hay un número en la columna del "Número 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 siguen, 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 octubre de 1979.
7. Las piezas quedan sujetas a cambios de diseño sin aviso previo.

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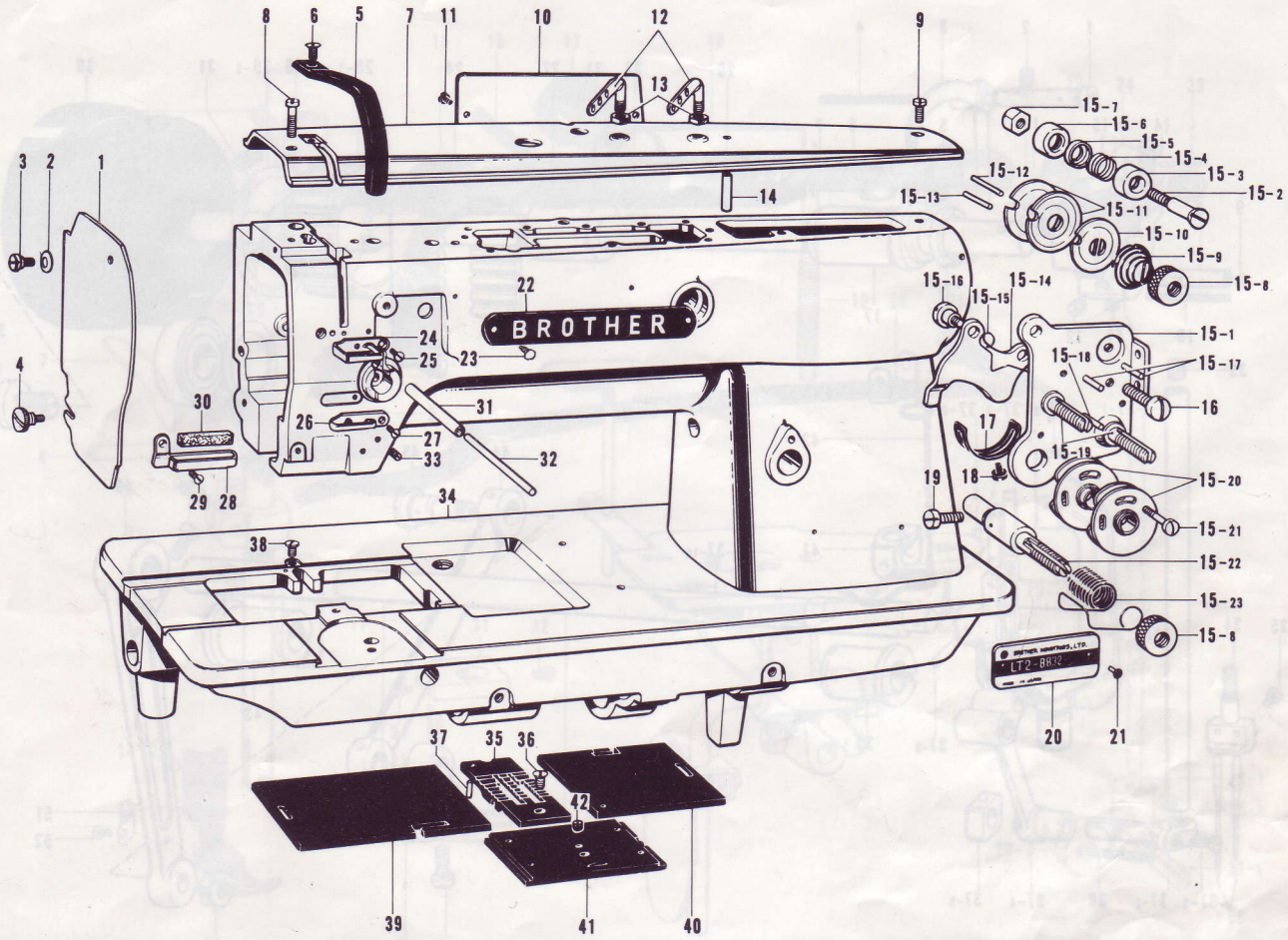
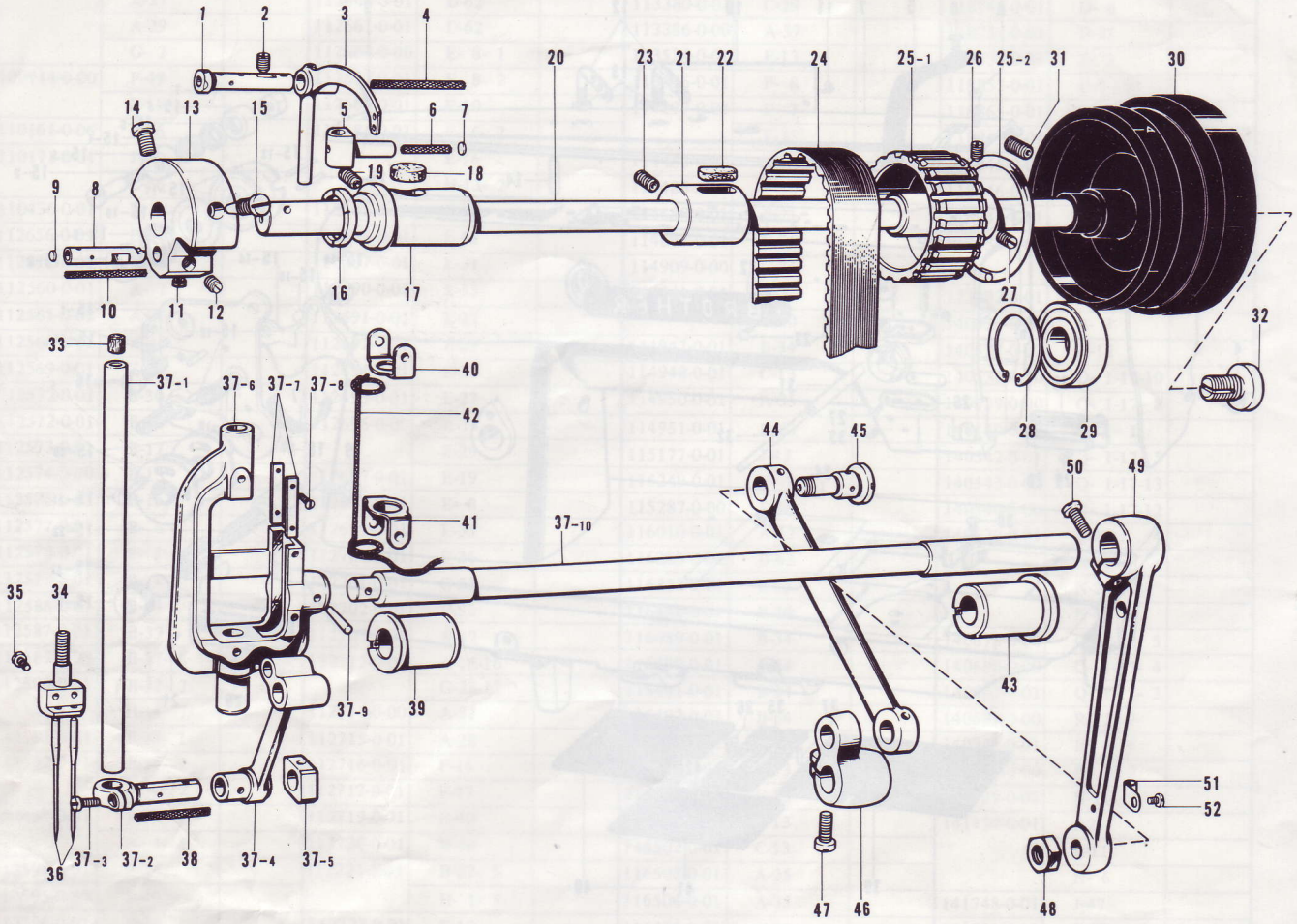
A. Machine Body and Threading



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
A- 1	Face Plate	1	151101-0-01	
A- 2	Spring Washer	1	146598-0-01	
A- 3	Stud Screw	1	153112-0-01	
A- 4	Screw	1	106120-0-02	
A- 5	Thread Take-up Cover	1	112561-0-02	
A- 6	Screw	1	107231-0-02	
A- 7	Arm Top Cover	1	112560-0-01	
A- 8	Screw	1	009681-6-13	
A- 9	Screw	1	009681-0-13	
A-10	Rear Cover	1	112566-0-01	
A-11	Screw	2	009670-6-12	
A-12	Top Cover Thread Guide	2	140527-0-01	
A-13	Nut	2	150553-0-03	
A-14	Oil Pipe	1	112696-0-00	
A-15- 1	Upper Thread Tension Plate	1		A-15 Upper Tension Control Assembly
A-15- 2	Screw	2	144689-0-01	
A-15- 3	Thread Guide Cap	2	144685-0-01	
A-15- 4	Thread Guide Spring	2	144688-0-01	
A-15- 5	Thread Guide Disc	2	144686-0-01	
A-15- 6	Thread Guide Bracket	2	144687-0-01	
A-15- 7	Nut	2	021670-1-02	
A-15- 8	Tension Control Nut	3	108265-0-01	
A-15- 9	Tension Spring	2		
A-15-10	Tension Disc Washer	2	108264-0-01	
A-15-11	Tension Disc	4	108263-0-01	
A-15-12	Thread Release Pin	1	144704-0-01	
A-15-13	Thread Release Pin	1	144703-0-01	
A-15-14	Tension Release Plate	1	144683-0-01	
A-15-15	Spring	2	118320-0-01	
A-15-16	Stud Screw	2	112712-0-01	
A-15-17	Pin	2		
A-15-18	Pin	2		

Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
A-15-19	Tension Stud	2		A-15 Upper Tension Control Assembly
A-15-20	Spring Guide	2	108254-0-01	
A-15-21	Screw	1	144682-0-01	
A-15-22	Tension Stud	1	144680-0-01	
A-15-23	Thread Take-up Spring	1	144681-0-01	
A-16	Screw	1	009681-0-14	
A-17	Stopper	1	112709-0-01	
A-18	Screw	1	009670-6-12	
A-19	Screw	1	100064-0-02	
A-20	Model Plate "BROTHER"	1		
A-21	Pin	2		
A-22	Name Plate	1		
A-23	Screw	2		
A-24	Arm Thread Guide Upper	1	108266-0-01	
A-25	Screw	1	108960-0-04	
A-26	Arm Thread Guide, Center	1	112658-0-01	
A-27	Screw	1	108960-0-04	
A-28	Arm Thread Guide, Lower	1	112715-0-01	
A-29	Screw	1	108960-0-04	
A-30	Felt	1	114941-0-01	
A-31	Pipe	1	112714-0-00	
A-32	Thread Release Shaft	1	144823-0-01	
A-33	Screw	2	151602-0-02	
A-34	Arm Bed	1		
A-35	Needle Plate (Assembly)	1		
A-36	Screw	1	100032-0-03	
A-37	Pin	1	113386-0-00	
A-38	Screw	1	112751-0-02	
A-39	Slide Plate, Left	1	112606-0-01	
A-40	Slide Plate, Right	1	112607-0-01	
A-41	Slide Plate Front Assembly	1	112610-0-01	
A-42	Screw	1	116010-0-01	

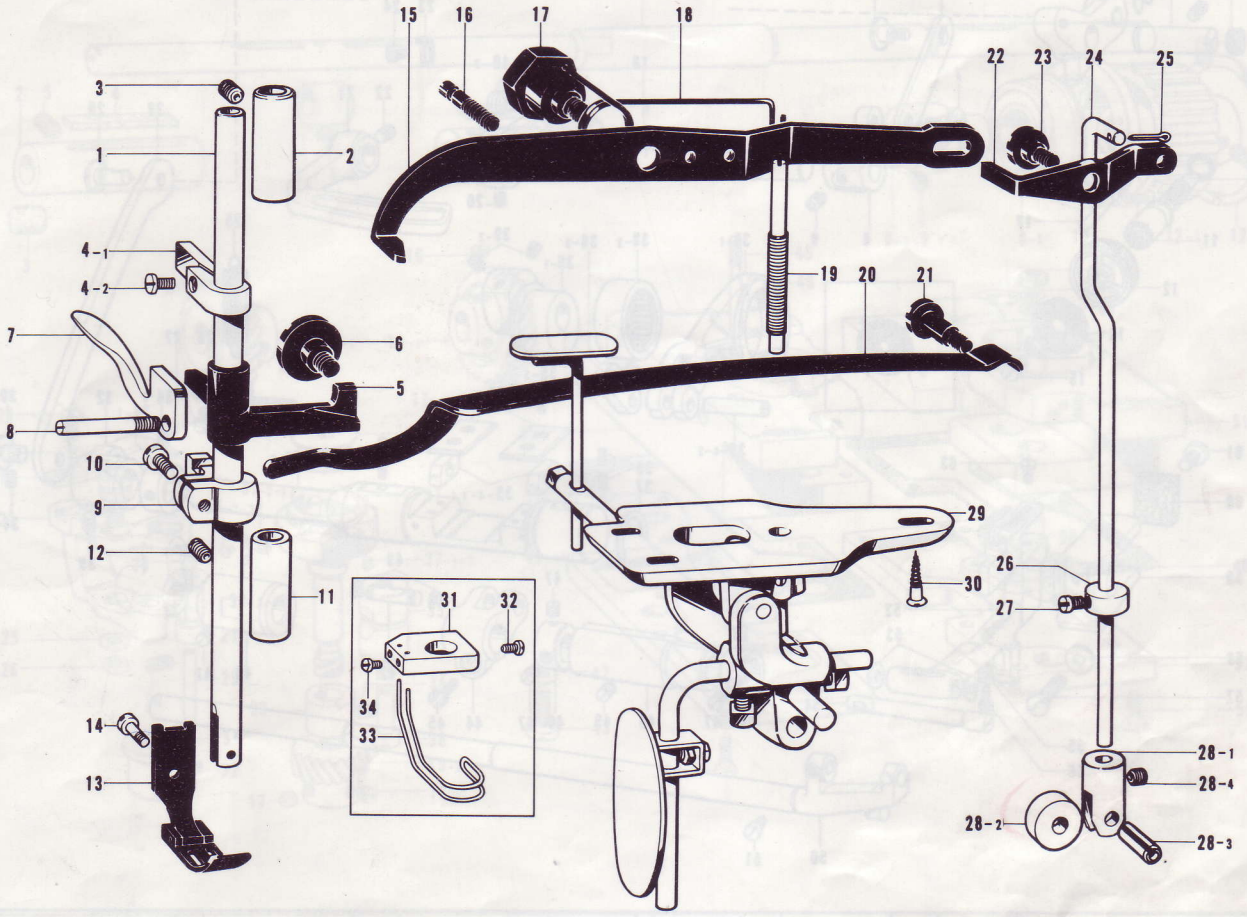
B. Upper Shaft, Needle Bar and Rocking Mechanism



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
B- 1	Stud	1	112579-0-01	
B- 2	Screw	1	151605-0-01	
B- 3	Thread Take-up Lever	1	112578-0-01	
B- 4	Wick 3ϕ x 45	1	112735-0-01	
B- 5	Thread Take-up Lever Slide Block	1	118171-0-01	
B- 6	Wick	1	114693-0-01	
B- 7	Pusher	1	113024-0-00	
B- 8	Needle Bar Crank	1	112577-0-01	
B- 9	Pusher	1	113014-0-00	
B-10	Wick 3ϕ x 45	1	112735-0-00	
B-11	Screw	1	101706-0-01	
B-12	Screw	1	100251-0-01	
B-13	Counter Weight	1	112574-0-00	
B-14	Screw	1	146141-0-01	
B-15	Screw	1	100250-0-01	
B-16	Thrust Ring	1	112576-0-01	
B-17	Upper Shaft Bushing, Left	1	112573-0-01	
B-18	Felt	1	112734-0-01	
B-19	Screw	1	013761-4-10	
B-20	Upper Shaft	1	112572-0-01	
B-21	Upper Shaft Bushing, Center	1	114680-0-01	
B-22	Felt	1	100248-0-01	
B-23	Screw	1	013761-4-10	
B-24	Timming Belt	1	112586-0-01	
B-25-1	Timming Belt Wheel Upper	1		B-25 Timming Belt Wheel Upper Assembly 180157-0-01
B-25-2	Side Ring	2		
B-26	Screw	1	015771-2-12	
B-27	Screw	1	013771-2-12	
B-28	Stop Ring	1	112760-0-01	
B-29	Ball Bearing	1	072620-4-60	
B-30	Pulley	1	144614-0-01	

Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
B-31	Screw	2	013761-4-10	
B-32	Screw	1	104478-0-01	
B-33	Needle Bar Cap	1	148394-0-00	
B-34	Needle Clamp	1		
B-35	Screw	2	116323-0-01	
B-36	Needle DP x 5	2		
B-37- 1	Needle Bar	1	112591-0-01	*B-37 Needle Bar Crank Rod Assembly 112587-1-01
B-37- 2	Needle Bar Clamp	1	112592-0-01	
B-37- 3	Screw	1	009670-8-12	
B-37- 4	Needle Bar Crank Rod	1	112593-0-01	
B-37- 5	Needle Bar Guide Slide Block	1	112721-0-01	
B-37- 6	Needle Bar Support	1	112589-1-00	
B-37- 7	Needle Bar Guide Plate	2	112590-0-01	
B-37- 8	Screw	4	102731-0-04	
B-37- 9	Pin	1	107030-0-01	
B-37-10	Needle Bar Rock Shaft	1		
B-38	Wick	1	112728-0-01	
B-39	Needle Bar Rock Shaft Bushing, Left	1	112594-0-01	
B-40	Wick Presser (Upper)	1	112719-0-01	
B-41	Wick Presser (Lower)	1	112720-0-01	
B-42	Wick	1	116699-0-00	
B-43	Needle Bar Rock Shaft Bushing, Right	1	112764-0-01	
B-44	Needle Bar Rock Link	1	112596-0-01	
B-45	Screw	2	112597-0-01	
B-46	Needle Bar Connecting Crank	1	112598-0-01	
B-47	Screw	1	009781-8-12	
B-48	Nut	2	101268-0-03	
B-49	Needle Bar Connecting Rod	1	112595-0-00	
B-50	Screw	1	105351-0-02	
B-51	Wick Support	1	112739-0-01	
B-52	Screw	1	009670-5-12	

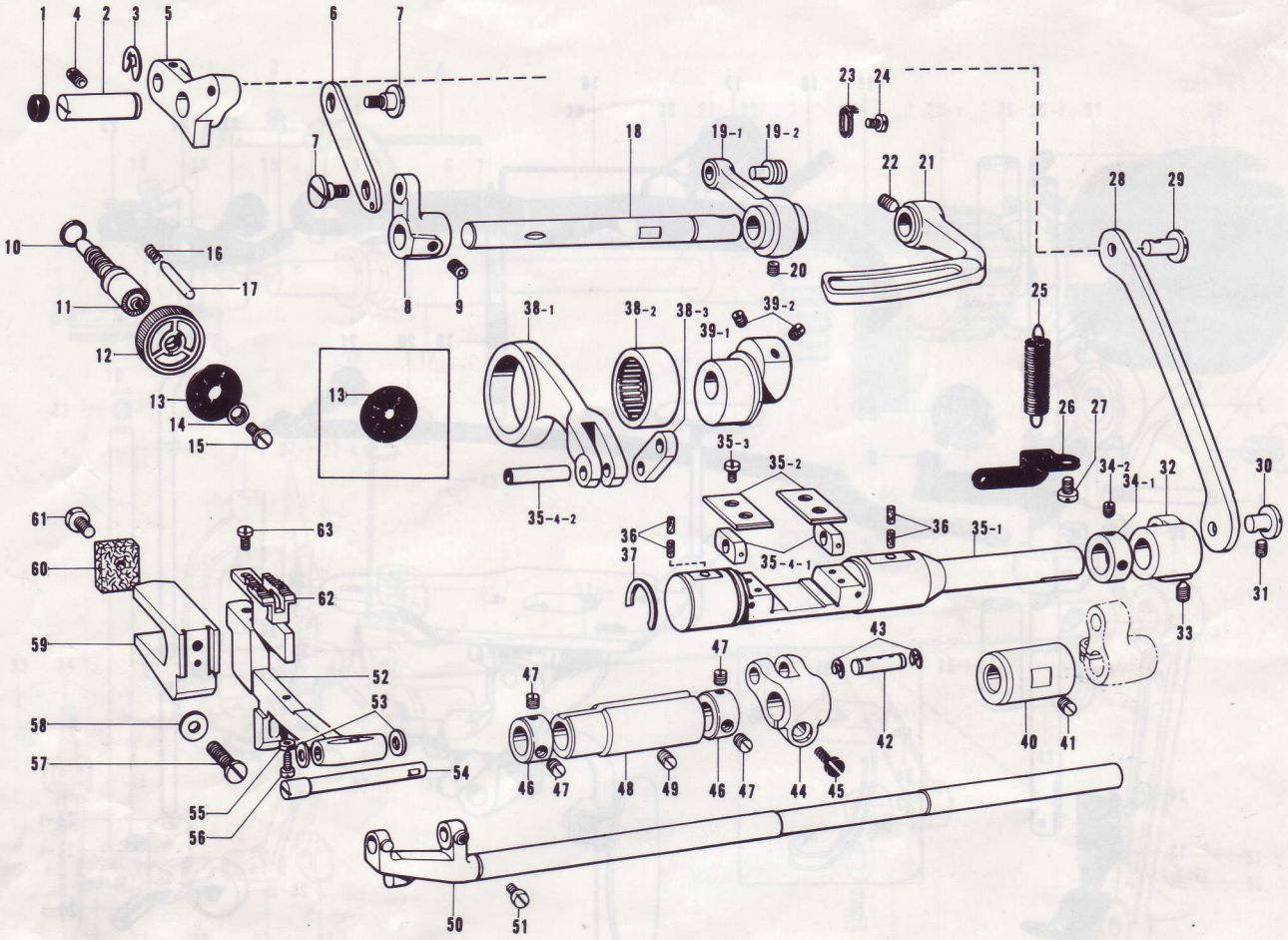
C. Presser Foot Mechanism



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
C- 1	Presser Bar	1	112614-0-01	
C- 2	Presser Bar Bushing, Upper	1	112615-0-01	
C- 3	Screw	1	100260-0-01	
C- 4-1	Presser Bar Guide	1		C-4 Presser Bar Guide Assembly 180950-0-01
C- 4-2	Screw	1	009680-7-12	
C- 5	Presser Bar Lifter	1	148483-0-01	
C- 6	Presser Bar Lifter Guide	1	112631-0-01	
C- 7	Presser Foot Lifter	1	112618-0-01	
C- 8	Screw	1	112619-0-01	
C- 9	Presser Bar Bracket	1	112616-0-01	
C-10	Screw	1	009670-8-12	
C-11	Presser Bar Bushing, Lower	1	112763-0-01	
C-12	Screw	1	151604-0-01	
C-13	Presser Foot	1		
C-14	Screw	1	113050-0-01	
C-15	Knee Lifter Lever	1	112625-0-01	
C-16	Stopper Screw	1	112630-0-01	
C-17	Screw	1	112626-0-01	
C-18	Spring	1	112629-0-01	

Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
C-19	Presser Adjusting Screw	1	112624-0-01	
C-20	Presser Plate Spring	1	118170-0-01	
C-21	Screw	1	112623-0-01	
C-22	Knee Lifter Connecting Lever	1	112627-0-01	
C-23	Screw	1	112628-0-01	
C-24	Knee Lifter Connecting Rod	1	112632-0-01	
C-25	Pin	1	114909-0-00	
C-26	Collar	1	112634-0-02	
C-27	Screw	1	104908-0-04	
C-28-1	Roller Bracket	1		C-28 Knee Lifter Roller Bracket 151609-0-01
C-28-2	Roller	1	112636-0-01	
C-28-3	Pin	1	047501-2-42	
C-28-4	Screw	1	151601-0-02	
C-29	Knee Lifter Assembly	1	113380-0-01	
C-30	Screw	3	106030-0-01	
C-31	Finger Guard Supporter	1	151191-0-01	
C-32	Screw	1	144458-0-01	
C-33	Finger Guard	1	150917-0-01	541387-0-01
C-34	Screw	2	149177-0-01	140553-0-01

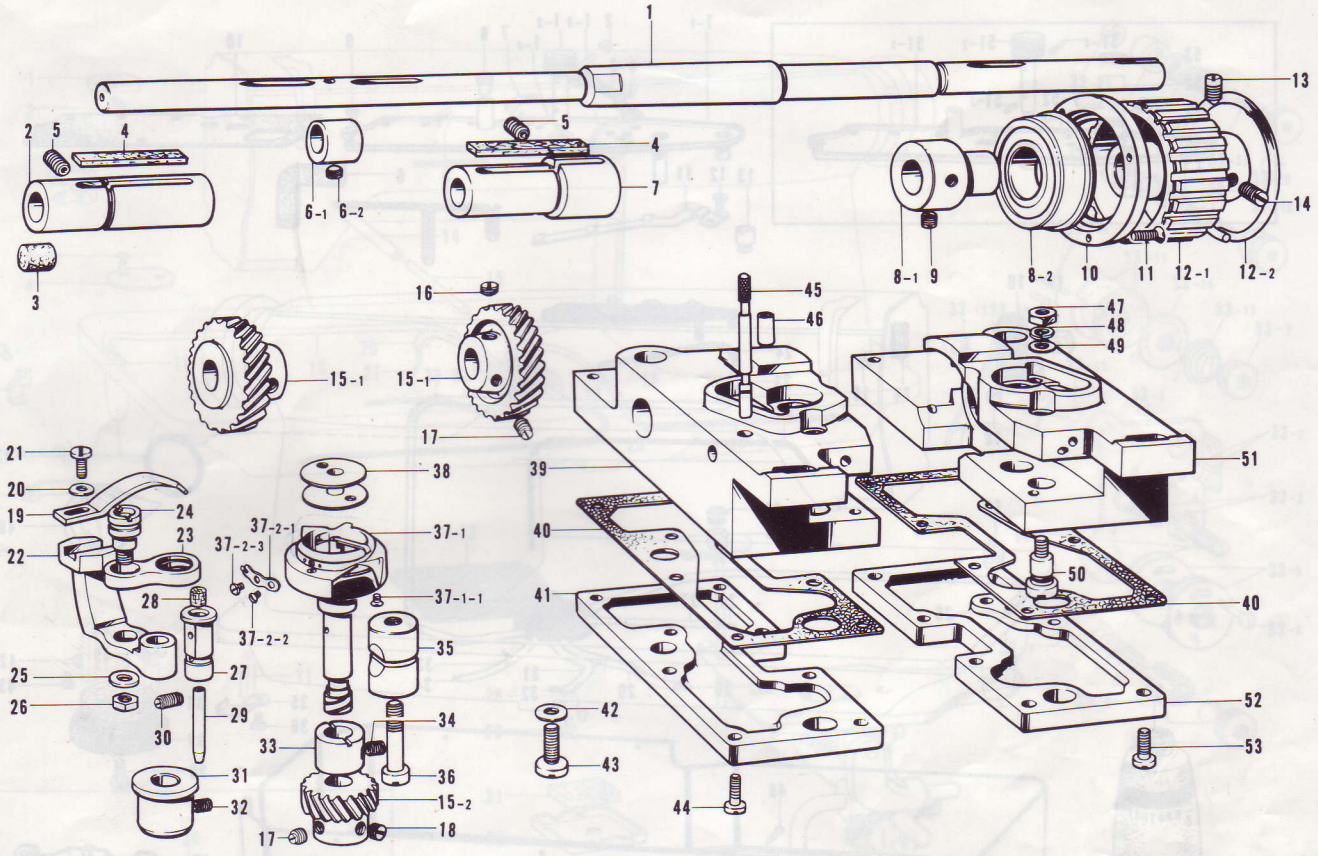
D. Feed Mechanism



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
D- 1	Cap	1	143766-0-01	
D- 2	Feed Regulator Stud	1	148488-0-01	
D- 3	Stop Ring	1	048070-3-42	
D- 4	Screw	1	151605-0-01	
D- 5	Feed Regulator	1	148489-0-01	
D- 6	Connecting Plate	1	118746-0-01	
D- 7	Screw	2	112072-0-01	
D- 8	Lever	1	118747-0-01	
D- 9	Screw	1	118853-0-01	
D-10	Packing	1	108549-0-01	
D-11	Length Control Screw	1	143598-0-01	
D-12	Length Control	1	153168-0-01	
D-13	Length Control Plate	1	151508-0-01	
D-14	Washer	1	142746-0-02	
D-15	Screw	1	142747-0-02	
D-16	Spring	1	100328-0-01	
D-17	Pin	1	145502-0-01	
D-18	Feed Regulator Lever Shaft	1	151080-0-01	
D-19-1	Link (B)	1		D-19 Link Assembly 143608-0-01
D-19-2	Spring Hook	1	108546-0-01	
D-20	Screw	1	014760-6-22	
D-21	Reverse Lever	1	118752-0-01	
D-22	Screw	1	015771-0-12	
D-23	Reverse Lever Stopper	1	118865-0-01	
D-24	Screw	1	009680-7-12	
D-25	Spring	1	143609-0-01	
D-26	Spring Hook Plate	1	143610-0-01	
D-27	Screw	1	009710-8-12	
D-28	Feed Regulator Connecting Link	1	148487-0-01	
D-29	Pin	1	118713-0-01	
D-30	Pin	1	148501-0-01	
D-31	Screw	2	151602-0-01	
D-32	Feed Regulator Arm	1	148499-0-01	
D-33	Screw	1	118853-0-01	
D-34-1	Collar	1		D-34 Collar Assembly 180321-0-01
D-34-2	Screw	2	101706-0-01	

Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
D-35-1	Feed Regulator Shaft	1		D-35 Feed Regulator Shaft Assembly 148771-0-01
D-35-2	Slide Block Guide Plate	2	143594-0-01	
D-35-3	Screw	4	009681-0-12	
D-35-4-1	Feed Regulator Slide Block	2		D-35-4 Slide Block 145328-0-01
D-35-4-2	Feed Regulator Slide Block Shaft	1		
D-36	Felt	4	148743-0-01	
D-37	Stop Ring	1	143597-0-01	
D-38-1	Level Feed Connecting Rod	1	143612-0-00	D-38 Level Feed Connecting Rod Assembly 143611-0-01
D-38-2	Needle Bearing	1	118954-0-00	
D-38-3	Level Feed Connecting Link	1	143613-0-01	
D-39-1	Eccentric Wheel	1		D-39 Eccentric Wheel 148802-0-01
D-39-2	Screw	2	151605-0-01	
D-40	Feed Rock Shaft Bushing, Right	1	148493-0-01	
D-41	Screw	1	013761-4-10	
D-42	Stud	1	143616-0-01	
D-43	Stop Ring	2	048060-3-42	
D-44	Lever Feed Arm	1	148495-0-01	
D-45	Screw	1	009781-8-12	
D-46	Collar	2	113074-0-01	
D-47	Screw	4	101706-0-01	
D-48	Feed Rock Shaft Bushing, Left	1	148494-0-01	
D-49	Screw	1	013761-4-10	
D-50	Feed Rock Shaft	1	149001-0-01	
D-51	Screw	1	104908-0-04	
D-52	Feed Bar	1	151081-0-01	
D-53	Thrust Ring	2	143591-0-01	
D-54	Feed Bar Shaft	1	148977-0-01	
D-55	Nut	1	021660-1-03	
D-56	Screw	1	107278-0-02	
D-57	Screw	1	009761-4-12	
D-58	Washer	1	025060-1-32	
D-59	Feed Bar Fork	1	112656-0-01	
D-60	Felt	1	112759-0-01	
D-61	Screw	1	100242-0-03	
D-62	Feed Dog	1		
D-63	Screw	2	116283-0-01	

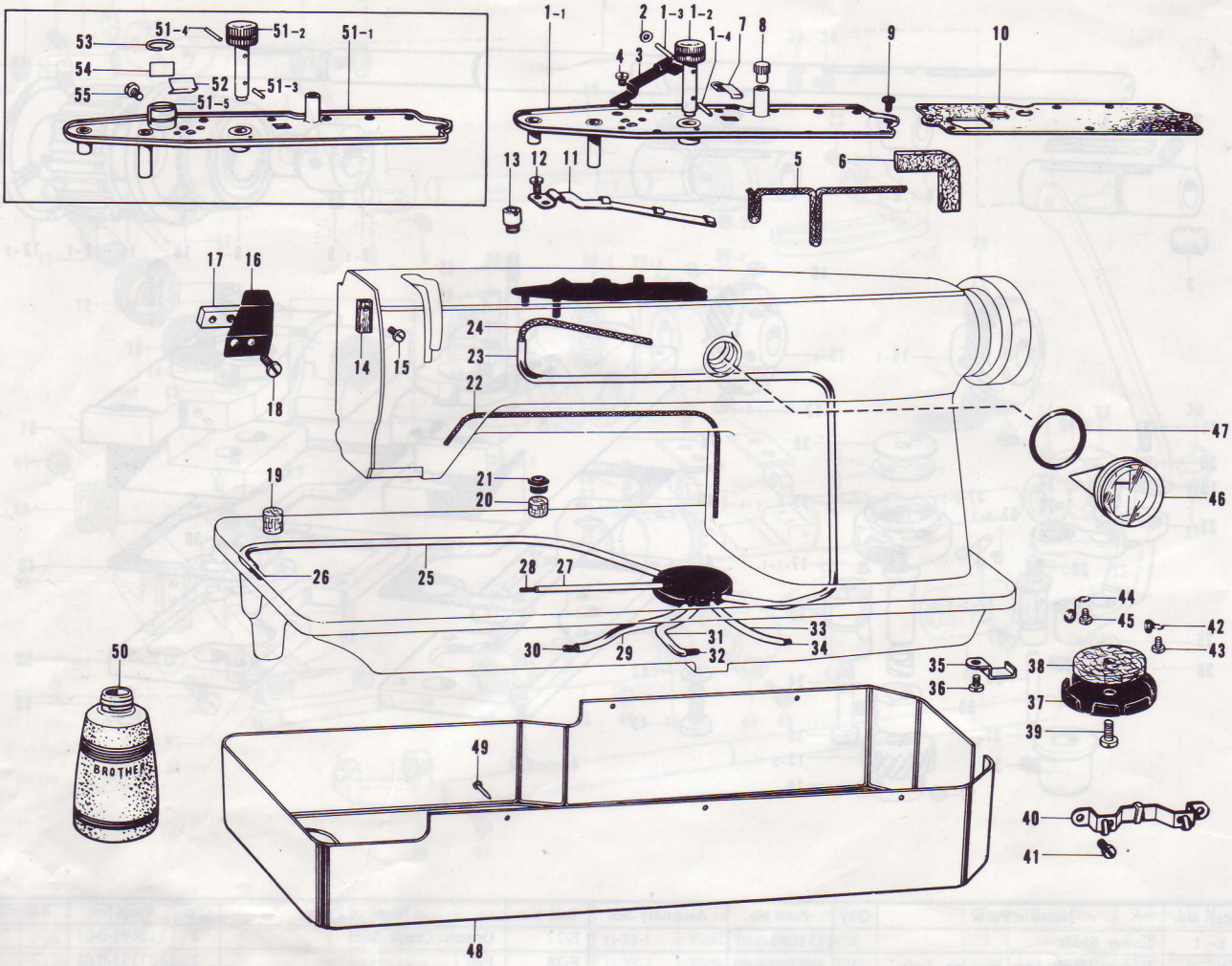
E. Lower Shaft, Rotary Hook Mechanism



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
E- 1	Lower Shaft	1	151082-0-01	
E- 2	Rotary Hook Base Bushing, Left	1	148503-0-00	
E- 3	Felt	1	115249-0-01	
E- 4	Felt	2	113362-0-01	
E- 5	Screw	2	151604-0-01	
E- 6-1	Vertical Feed Eccentric Wheel	1		E-6 Vertical Feed Eccentric Wheel Assembly 181486-0-01
E- 6-2	Screw	1	112684-0-01	
E- 7	Rotary Hook Base Bushing, Right	1	148502-0-00	
E- 8-1	Ball Bearing	1	112666-0-00	E-8 Bearing Holder Assembly 112698-0-01
E- 8-2	Bushing	1	112667-0-01	
E- 9	Screw	2	013780-7-10	
E-10	Bearing Presser	1	112668-0-01	
E-11	Screw	3	005671-2-12	
E-12-1	Trimming Belt Wheel Lower	1		E-12 Timing Belt Wheel Lower Assembly 180164-0-01
E-12-2	Ring	1		
E-13	Screw	1	015771-2-12	
E-14	Screw		013771-2-12	
E-15-1	Spiral Gear	2		E-15 Spiral Gear Assembly 180949-0-01
E-15-2	Pinion	2		
E-16	Screw	2	112684-0-01	
E-17	Screw	4	100251-0-01	
E-18	Screw	6	101706-0-01	
E-19	Bobbin Case Opener	2	112697-0-01	
E-20	Washer	2	105161-0-02	
E-21	Screw	2	009670-8-12	
E-22	Opener Crank	2	112694-0-01	
E-23	Opener Link	2	112692-0-01	
E-24	Opener Link Stud	2	148005-0-01	
E-25	Washer	2	025710-2-32	
E-26	Nut	2	110161-0-06	

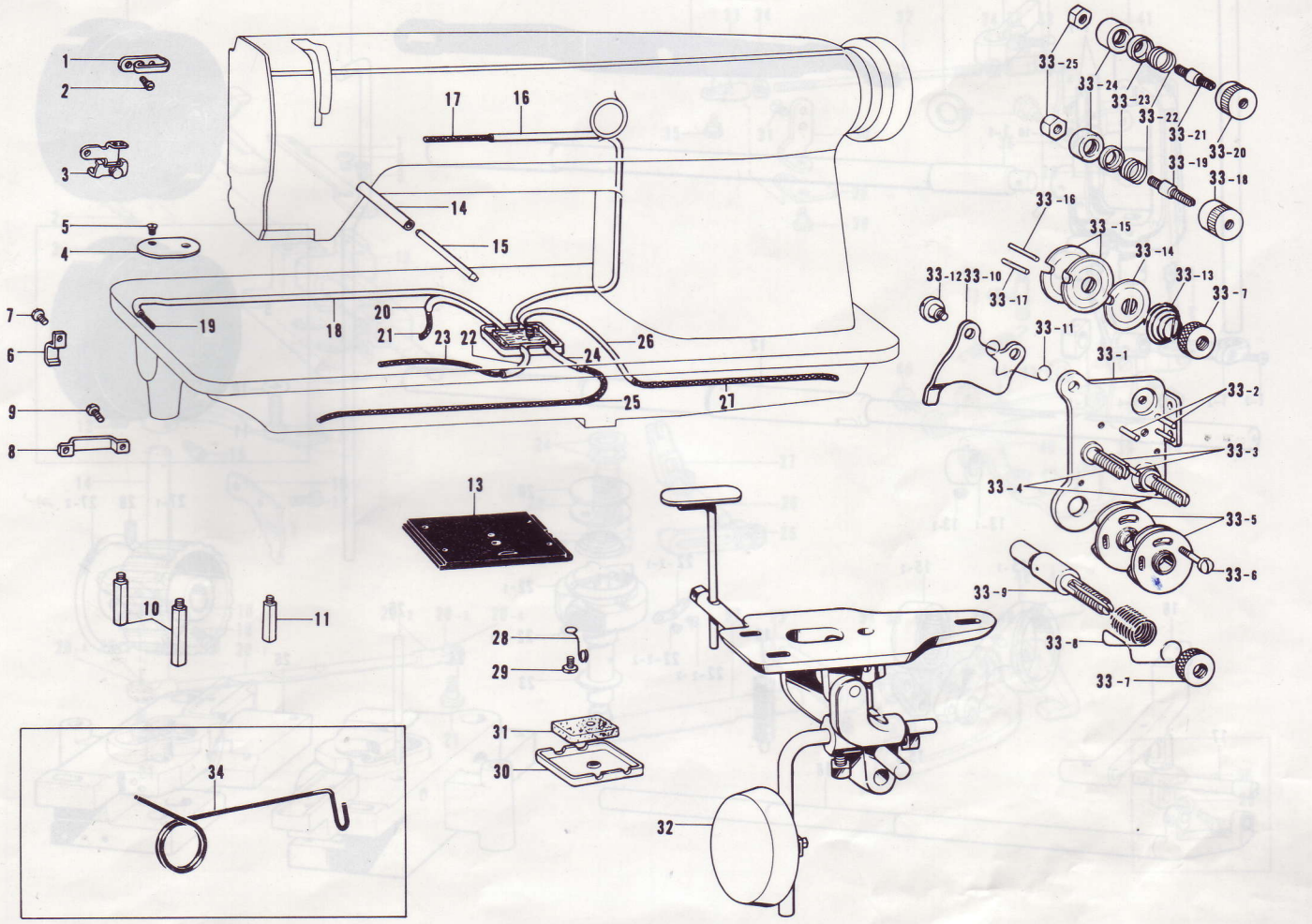
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
E-27	Opener Crank Stud	2	112695-0-01	
E-28	Felt	2	107155-0-01	
E-29	Pipe	1	112696-0-00	
E-30	Screw	2	153483-0-01	
E-31	Rotary Hook Shaft Bushing, Lower	2	112687-0-01	
E-32	Screw	2	107794-0-01	
E-33	Rotary Hook Shaft Bushing, Upper	2	112690-0-01	
E-34	Screw	2	107794-0-01	
E-35	Pinch Sleeve	2	112699-0-01	
E-36	Screw	2	112700-0-01	
E-37-1	Outer Rotary Hook Assembly	2		E-37 Rotary Hook 112691-0-01
E-37-1-1	Screw	4	151028-0-01	
E-37-2-1	Adjusting Spring	2	151145-0-01	E-37-2 Inner Rotary Hook Assembly 151138-0-01
E-37-2-2	Screw	2	151029-0-01	
E-37-2-3	Screw	2	151030-0-01	
E-38	Bobbin	2	112781-0-01	
E-39	Rotary Hook Base, Left	1	112685-0-01	
E-40	Packing	2	112755-0-01	
E-41	Oil Reservoir, Left	1	112686-0-01	
E-42	Washer	2	100197-0-02	
E-43	Screw	2	105351-0-02	
E-44	Screw	8	100032-0-02	
E-45	Oil Gauge	2	112757-0-01	
E-46	Oil Pipe	2	115287-0-00	
E-47	Nut	2	105234-0-01	
E-48	Washer	2	028680-2-43	
E-49	Washer	2	100645-0-03	
E-50	Oil Adjusting Screw	2	112756-0-01	
E-51	Rotary Hook Base, Right	1	112701-0-01	
E-52	Rotary Hook Base Oil Reservoir, Right	1	112702-0-01	
E-53	Screw	8	100320-0-02	

F. Lubrication



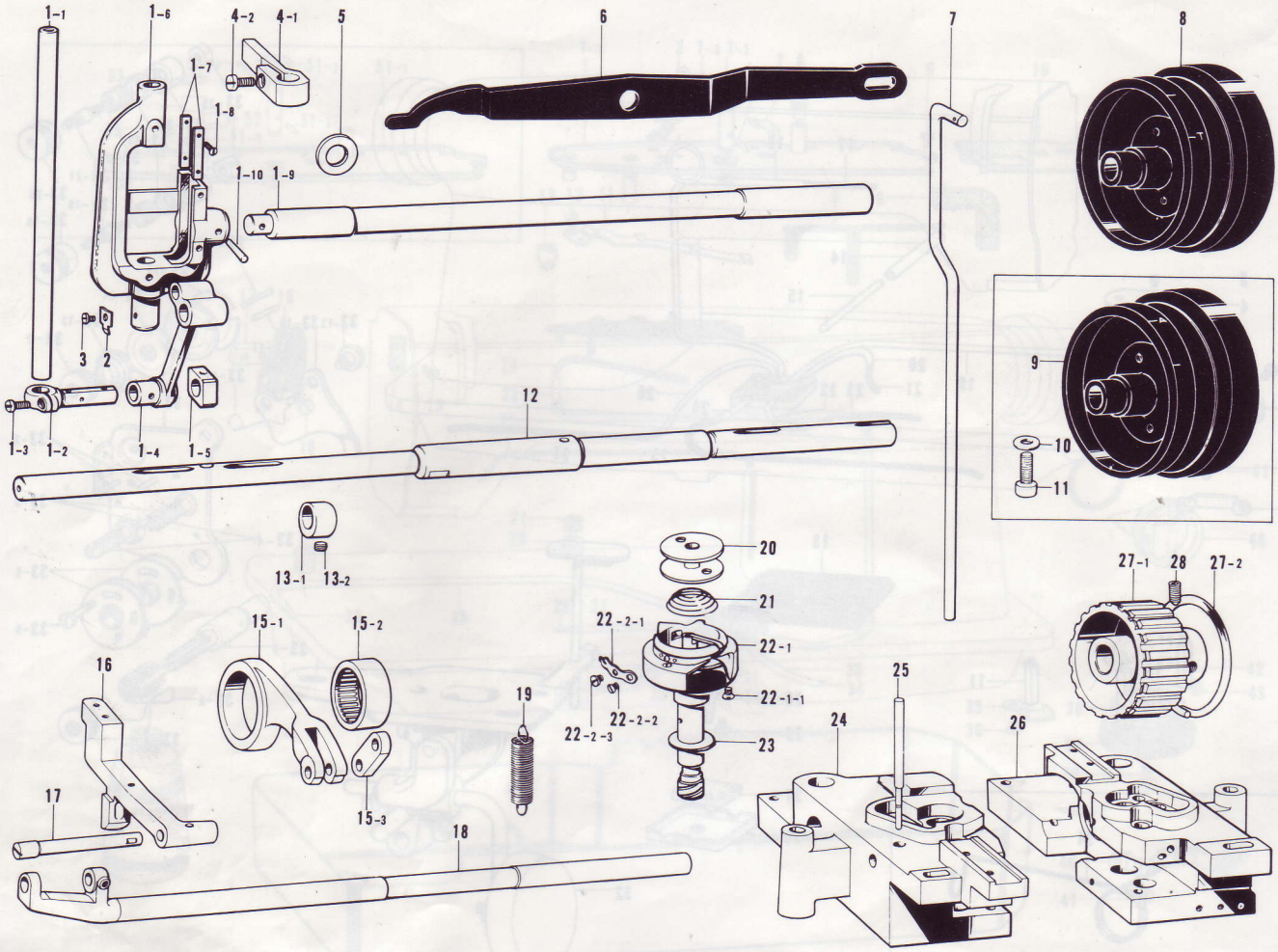
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.	Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
F- 1-1	Oil Reservoir Plate	1		F-1 Oil Reservoir Plate Assembly 112762-0-01	F-29	Oil Tube	1	143669-0-00	
F- 1-2	Oil Adjusting Knob	1			F-30	Wick	1	143668-0-00	
F- 1-3	Pin	1			F-31	Oil Tube	1	143669-0-00	
F- 1-4	Pin	1			F-32	Wick	1	143668-0-00	
F- 2	Washer	1	503093-0-01		F-33	Oil Tube	1	143671-0-00	
F- 3	Spring Plate	1	112730-0-01		F-34	Wick	1	143670-0-00	
F- 4	Screw	1	009679-3-12		F-35	Felt Presser	2	114297-0-01	
F- 5	Wick	1	112725-0-01		F-36	Screw	2	009670-5-12	
F- 6	Felt	1	112724-0-01		F-37	Oil Pipe Supporter	1	151083-0-01	
F- 7	Felt Presser	1	114297-0-01		F-38	Oil Felt	1	112741-0-01	
F- 8	Cap For Oil Tube	1	113526-0-01		F-39	Screw	1	009711-0-12	
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		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		F-45	Screw		009670-5-12	
F-15	Screw	1	001670-6-12		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	151007-1-01	
F-18	Screw	1	009710-8-12		F-49	Nail	5	109714-0-00	
F-19	Felt	1	112754-0-01		F-50	Oiler	1	114486-0-01	
F-20	Felt	1	112753-0-01		F-51-1	Oil Plate	1		F-51 Oil Pan Plate Assembly 117200-0-01
F-21	Oil Cap	1	112758-0-01		F-51-2	Oil Adjusting Knob	1		
F-22	Wick 3ϕ x 440	1	112736-0-00		F-51-3	Pin	1		
F-23	Oil Tube	1	112737-0-01		F-51-4	Pin	1		
F-24	Wick 2.5ϕ x 400	1	112738-0-00		F-51-5	Oil Plate Bushing	1		
F-25	Oil Tube	1	143661-0-00		F-52	Spring	1	117204-0-01	
F-26	Wick	1	143660-0-00		F-53	Stop Ring	1	117205-0-01	
F-27	Oil Tube	1	151084-0-00		F-54	Wick Presser Plate	1	117203-0-01	
F-28	Wick	1	143662-0-00		F-55	Screw	1	009671-0-12	

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	112658-0-01		G-31	Felt	1	148732-0-01	
G- 2	Screw	1	108960-0-04		G-32	Knee Lifter Assembly	1	148674-0-01	
G- 3	Thread Guide Assembly	1	148656-0-01		G-33- 1	Upper Thread Tension Plate	1		
G- 4	Cover	1	148614-0-01		G-33- 2	Pin	3		
G- 5	Screw	2	149288-0-01		G-33- 3	Pin	2		
G- 6	Tube Holder		142268-0-01		G-33- 4	Tension Stud	2		
G- 7	Screw		009670-6-12		G-33- 5	Spring Guide	2	108254-0-01	
G- 8	Cord Holder	1	148818-0-01		G-33- 6	Screw	1	144682-0-01	
G- 9	Screw	2	009670-6-12		G-33- 7	Tension Control Nut	3	108265-0-01	
G-10	Bed Leg	2	148611-0-01		G-33- 8	Thread Take-up Spring	1	144681-0-01	
G-11	Bed Leg Small	1	149179-0-01		G-33- 9	Tension Stud	1	144680-0-01	
G-13	Slide Plate Front Assembly	1	148599-0-01		G-33-10	Tension Release Plate	1	144683-0-01	
G-14	Pipe	1	148604-0-00		G-33-11	Arm Thread Guide Upper	1	118320-0-01	
G-15	Tension Release Bar	1	148610-0-01		G-33-12	Screw	2	112712-0-01	G-33 Tension Control Plate Assembly
G-16	Oil Tube	1	148730-0-01		G-33-13	Tension Spring	2		
G-17	Wick 2.5ϕ x 720	1	148731-0-00		G-33-14	Tension Disc Washer	2	148669-0-01	
G-18	Oil Tube	1	148741-0-01		G-33-15	Tension Disc	4	108263-0-01	
G-19	Wick 2.5ϕ x 375	1	148742-0-00		G-33-16	Tension Release Pin	1	148671-0-01	
G-20	Oil Tube	1	148733-0-01		G-33-17	Tension Release Pin	1	148670-0-01	
G-21	Wick 2.5ϕ x 160	1	148740-0-00		G-33-18	Adjusting Screw (B)	1	148665-0-01	
G-22	Oil Tube	1	148735-0-01		G-33-19	Thread Guide Screw (B)	1	148663-0-01	
G-23	Wick 2.5ϕ x 300	1	148736-0-00		G-33-20	Adjusting Screw (A)	1	148664-0-01	
G-24	Oil Tube	1	148737-0-01		G-33-21	Thread Guide Screw (A)	1	148662-0-01	
G-25	Wick 2.5ϕ x 335	1	148738-0-00		G-33-22	Thread Guide Spring	2	148668-0-01	
G-26	Oil Tube	1	148733-0-01		G-33-23	Thread Guide Disc	2	148667-0-01	
G-27	Wick 2.5ϕ x 310	1	148734-0-00		G-33-24	Thread Guide Bracket	2	148666-0-01	
G-28	Tube Holder	1	112745-0-01		G-33-25	Nut	2	021670-1-02	
G-29	Screw	1	009670-5-12		G-34	Spring	1	149768-0-01	
G-30	Oil Tube Supporter	1	148729-0-01						

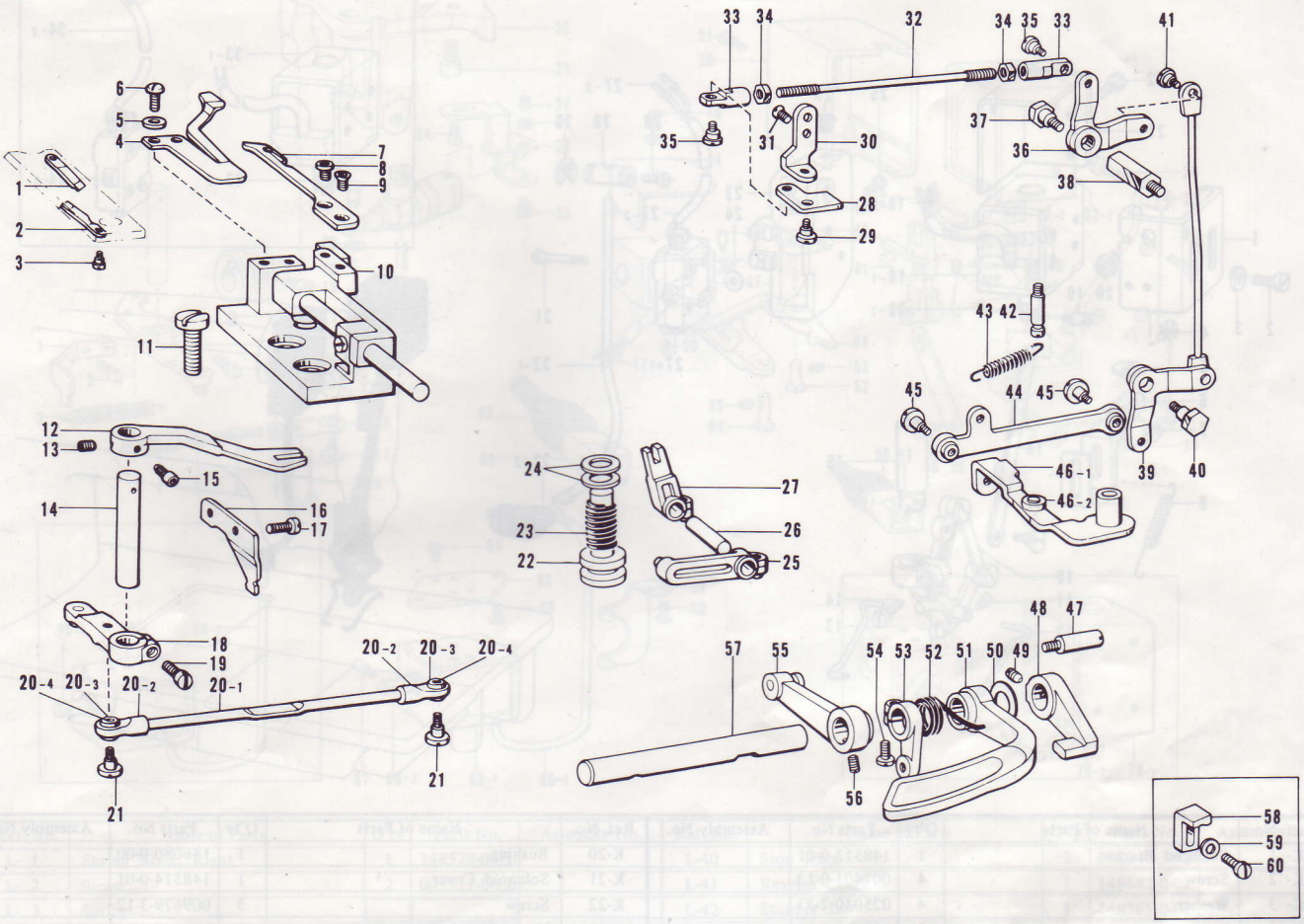
H. -400 · -500 Specification



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- 1- 2	Needle Bar Clamp	1	112592-0-01	
H- 1- 3	Screw	1	009670-8-12	
H- 1- 4	Needle Bar Crank Rod	1	112593-0-01	
H- 1- 5	Needle Bar Guide Slide Block	1	112721-0-01	
H- 1- 6	Needle Bar Support	1	148596-1-00	
H- 1- 7	Needle Bar Guide Plate	2	112590-0-01	
H- 1- 8	Screw	4	102731-0-04	
H- 1- 9	Needle Bar Rock Shaft	1		
H- 1-10	Pin	1	107030-0-01	
H- 2	Needle Bar Indicator	1	148598-0-01	
H- 3	Screw	1	105288-0-01	
H- 4- 1	Presser Bar Guide	1		H-4 Presser Bar Guide 148835-0-01
H- 4- 2	Screw	1	009680-7-12	
H- 5	Collar	1	148605-0-01	
H- 6	Knee Lifter Lever	1	148486-0-01	
H- 7	Knee Lifter Connecting Rod	1	148484-0-01	
H- 8	Pulley	1	148617-0-01	
H- 9	Pulley	1	149062-0-01	
H-10	Washer	2	025770-2-32	
H-11	Bolt	2	149569-0-01	
H-12	Lower Shaft	1	148505-0-01	
H-13- 1	Vertical Feed Eccentric Wheel	1		H-13 Vertical Feed Eccentric Wheel Assembly 148804-0-01
H-13- 2	Screw	1	112684-0-01	

Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
H-15-1	Level Feed Connecting Rod	1	148496-0-00	H-15 Level Feed Connecting Rod Assembly 148801-0-01
H-15-2	Needle Bearing	1	118954-0-00	
H-15-3	Level Feed Connecting Link	1	143613-0-01	
H-16	Feed Bar	1	148490-0-01	
H-17	Feed Bar Shaft	1	148491-0-01	
H-18	Feed Rock Shaft	1	148492-0-01	
H-19	Spring	1	148726-0-01	
H-20	Bobbin	2	148603-0-01	
H-21	Bobbin Tension Spring	2		
H-22-1	Outer Rotary Hook Assembly	2		H-22 Rotary Hook
H-22-1-1	Screw	4	151028-0-01	
H-22-2-1	Adjusting Spring	2	151145-0-01	H-22-2 Inner Rotary Hook Assembly 151140-0-01
H-22-2-2	Screw	2	151029-0-01	
H-22-2-3	Screw	2	151030-0-01	
H-23	Spacer 0.2	4	153243-0-01	
H-23	Spacer 0.3	2	153244-0-01	
H-24	Rotary Hook Base, Left	1	148481-0-01	
H-25	Oil Gauge	2	148728-0-01	
H-26	Rotary Hook Base, Right	1	148480-0-01	
H-27-1	Timming Belt Wheel Lower	1		H-27 Timing Belt Pulley Lower Assembly 148803-0-01
H-27-2	Ring	1		
H-28	Screw	1	148821-0-01	

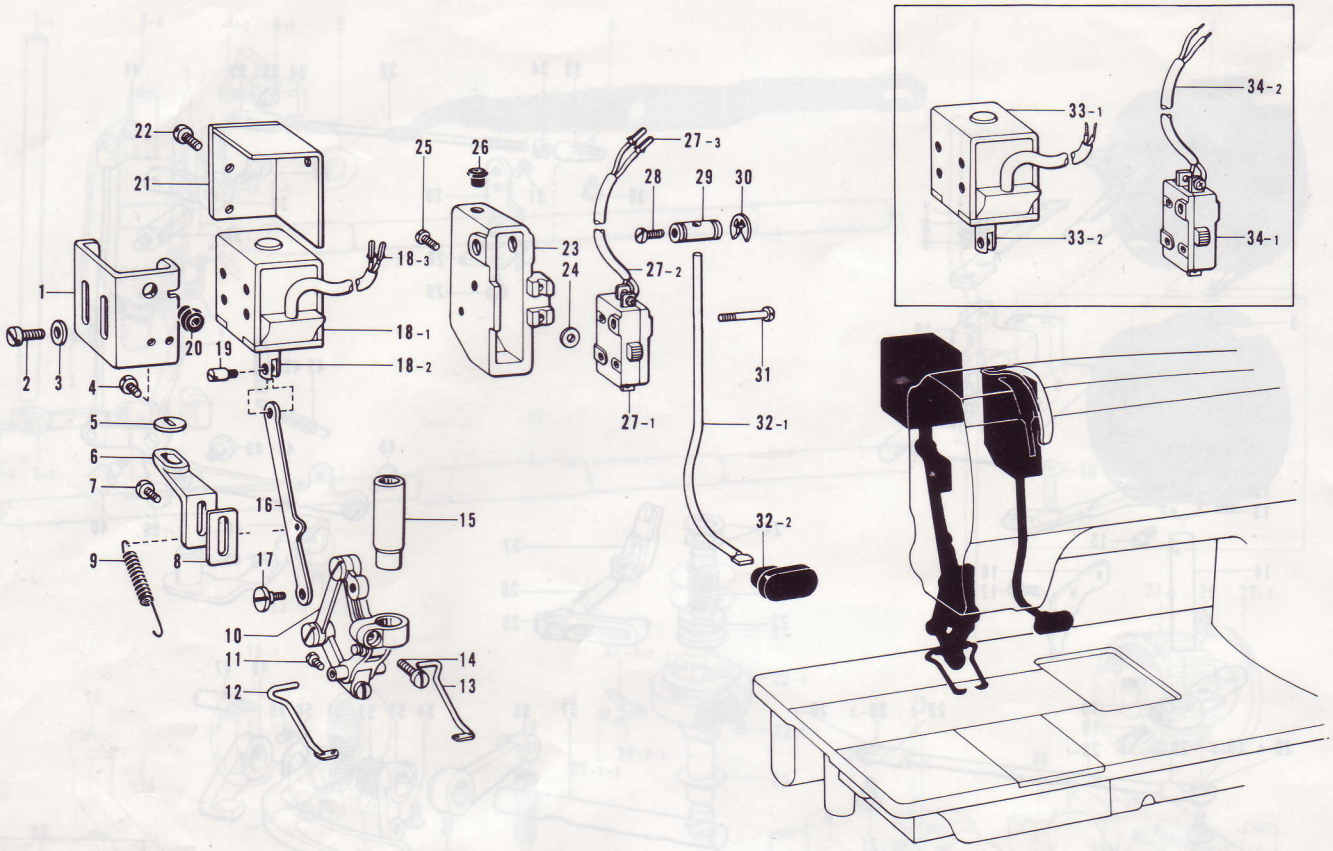
J. -400 · -500 Specification



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
J- 1	Fixed Knife, Right	1	149169-0-01	
J- 2	Fixed Knife, Left	1	148538-0-01	
J- 3	Stud Screw	2	148539-0-01	
J- 4	Thread Presser Spring	2		
J- 5	Washer	4	025630-1-32	
J- 6	Screw	4	001630-4-02	
J- 7	Movable Knife	2	148535-0-01	
J- 8	Screw	2	148536-0-01	
J- 9	Screw	2	148537-0-01	
J-10	Movable Knife Base Assembly	2	148531-0-01	
J-11	Screw	4	009710-8-12	
J-12	Knife Rock Arm	2	148572-0-01	
J-13	Screw	2	014770-6-22	
J-14	Knife Rock Arm Shaft	2	148573-0-01	
J-15	Screw	2	148574-0-01	
J-16	Spring Hook, Left	1	148580-0-01	
J-17	Screw	2	009711-0-12	
J-18	Knife Rock Lever, Left	1	148577-0-01	
J-19	Screw	1	009711-4-12	
J-20-1	Knife Connecting Bar	1		J-20 Connecting Rod Assembly 148585-0-01
J-20-2	Joint	2	148584-0-01	
J-20-3	Bushing	2		
J-20-4	Pin	2		
J-21	Screw	2	141494-0-01	
J-22	Knife Main Lever Shaft	1	148547-0-01	
J-23	Spring	1	148555-0-01	
J-24	Rubber	2	148559-0-00	
J-25	Knife Driving Pin Lever	1	181712-0-01	
J-26	Knife Driving Lever Shaft	1	148557-0-01	
J-27	Knife Driving	1	181713-0-01	
J-28	Tension Release Crank	1	148635-0-01	
J-29	Screw	1	148633-0-01	
J-30	Tension Release Plate	1	148634-0-01	

Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
J-31	Screw	2	117160-0-01	
J-32	Tension Release Rod Upper	1	148631-0-01	
J-33	Joint	2	148632-0-01	
J-34	Nut	2	021670-1-02	
J-35	Stud Screw	2	148768-0-01	
J-36	Tension Release Crank Upper	1	148630-0-01	
J-37	Screw	1	148628-0-01	
J-38	Stud	1	148629-0-01	
J-39	Tension Release Crank Lower	1	148625-0-01	
J-40	Screw	1	148628-0-01	
J-41	Screw	1	110171-0-01	
J-42	Spring Hanger	1	115177-0-01	
J-43	Spring	1	148654-0-01	
J-44	Tension Release Connecting Rod Lower	1	148623-0-01	
J-45	Stud Screw	2	123882-0-01	
J-46-1	Tension Release Rock Lever	1		J-46 Tension Release Rock Lever Assembly 148619-0-01
J-46-2	Tension Release Roller Stud Assembly	1		
J-47	Screw	1	141748-0-01	
J-48	Reverse Lever (B)	1	148607-0-01	
J-49	Screw	1	015771-0-12	
J-50	Thrust Ring	1	149554-0-01	
J-51	Reverse Lever (B)	1	148606-0-01	
J-52	Spring	1	148608-0-01	
J-53	Reverse Lever Shaft Arm	1	148640-0-01	
J-54	Screw	1	009711-4-12	
J-55	Feed Regulator Link	1	148638-0-01	
J-56	Screw	1	014760-6-22	
J-57	Reverse Lever Shaft	1	148609-0-01	
J-58	Stopper	1	149282-0-01	
J-59	Washer	1	100645-0-03	
J-60	Screw	1	009681-0-12	

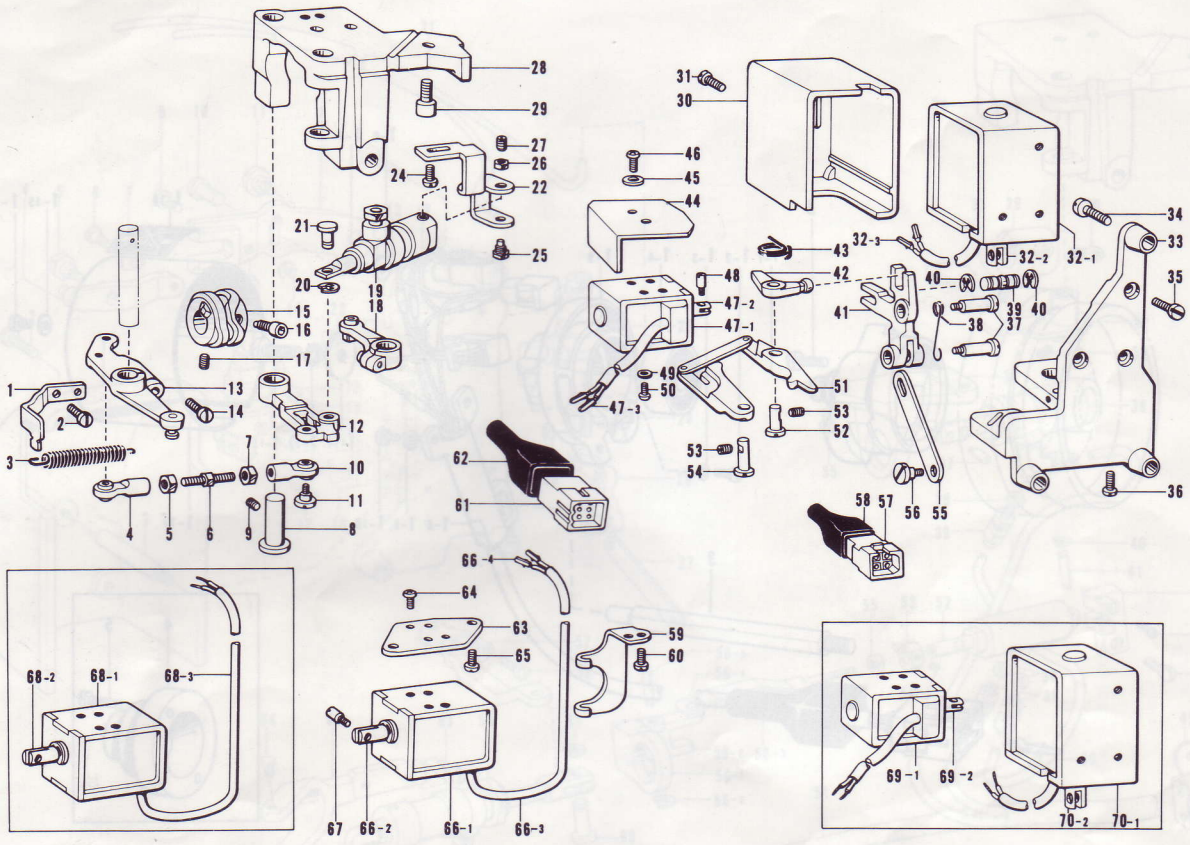
K. Thread Wiper, Reverse Switch Mechanism -400 · -500 Specification



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
K- 1	Solenoid Bracket	1	148513-0-01	
K- 2	Screw	4	007401-0-13	
K- 3	Washer	4	025040-2-33	
K- 4	Screw	2	107407-0-03	
K- 5	Stopper	1	148518-0-00	
K- 6	Stopper	1	148516-0-01	
K- 7	Screw	2	107407-0-03	
K- 8	Stopper	1	148517-0-00	
K- 9	Spring	1		
K-10	Thread Wiper Link	1	148770-0-01	
K-11	Screw	2	149177-0-01	
K-12	Thread Wipper, Left	1	148530-0-01	
K-13	Thread Wiper, Right	1	148529-0-01	
K-14	Screw	1	009711-4-13	
K-15	Presser Bar Bushing Lower	1	148508-0-01	
K-16	Solenoid Link	1	148515-0-01	
K-17	Screw	1	148521-0-01	
K-18-1	Solenoid	1		K-18 Thread Wiper Solenoid 148509-0-01
K-18-2	Plunger	1	148511-0-01	
K-18-3	Terminal Pin	2	143549-0-00	
K-19	Plunger Pin	1	148546-0-01	

Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
K-20	Bushing	1	146080-0-00	
K-21	Solenoid Cover	1	148514-0-01	
K-22	Screw	3	009679-3-12	
K-23	Micro Switch Base	1	146120-0-01	
K-24	Washer	2	403616-0-01	
K-25	Screw	2	009671-0-12	
K-26	Bushing	1	146080-0-00	
K-27-1	Micro Switch	1		K-27 Switch 151884-0-00
K-27-2	Reverse Switch Cord	1		
K-27-3	Terminal Pin	2	143549-0-00	
K-28	Screw	1	009681-4-14	
K-29	Actuator Pin	1	146125-0-01	
K-30	Stop Ring	2	048080-3-42	
K-31	Screw	2	146124-0-01	
K-32-1	Actuator Bar	1	148613-0-01	K-32 Actuator Assembly 148612-0-01
K-32-2	Actuator	1	146128-0-00	
K-33-1	Solenoid	1		K-33 Thread Wiper Solenoid 149246-0-01
K-33-2	Plunger	1	148511-0-01	
K-34-1	Micro Switch	1		K-34 Switch 151885-0-00
K-34-2	Reverse Switch Cord	1		

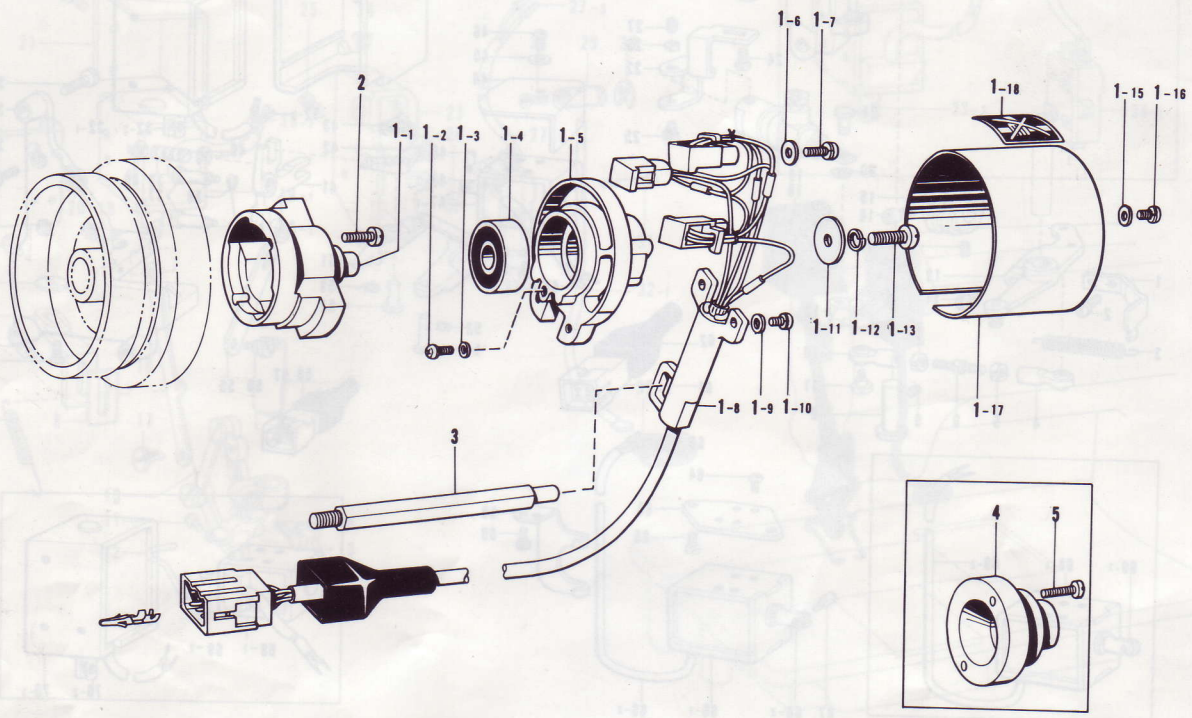
L. -400 Specification



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
L- 1	Spring Rock, Right	1	148579-0-01	
L- 2	Screw	2	009711-0-12	
L- 3	Spring			
L- 4	Joint Assembly, Left	1	148589-0-01	
L- 5	Nut	1	100022-0-05	
L- 6	Connecting Screw	1	148591-0-01	
L- 7	Nut	1	148592-0-01	
L- 8	Knife Sub Lever Shaft	1	148554-0-01	
L- 9	Screw	1	100289-0-03	
L-10	Joint Assembly, Right	1	148587-0-01	
L-11	Screw	2	141494-0-01	
L-12	Knife Sub Lever	1	148553-0-01	
L-13	Knife Rock Lever Right Assembly	1	148575-0-01	
L-14	Screw	1	009711-4-12	
L-15	Knife Driving Cam	1		
L-16	Screw	1	148574-0-01	
L-17	Screw	1	014770-6-22	
L-18	Knife Main Lever	1	148548-0-01	
L-19	Damper	1	148562-0-01	
L-20	Stop Ring	1	048030-3-42	
L-21	Damper Stud	1	148567-0-01	
L-22	Cylinder Holder	1	148568-0-01	
L-24	Screw	2	009781-4-12	
L-25	Screw	2	140620-0-01	
L-26	Nut	1	100078-0-03	
L-27	Screw	1	011802-0-12	
L-28	Movable Knife Base Bracket	1	148482-0-01	
L-29	Bolt	3	018061-6-22	
L-30	Solenoid Cover	1	148560-0-01	
L-31	Screw	1	007500-6-02	
L-32-1	Solenoid	1		L-32 Reverse Solenoid Assembly 148636-0-01
L-32-2	Plunger	1	148637-0-01	
L-32-3	Terminal Pin	2	143549-0-00	
L-33	Reverse Solenoid Bracket	1	148643-0-01	
L-34	Screw	3	009782-5-12	
L-35	Screw	3	007500-8-02	
L-36	Screw	1	107419-0-02	
L-37	Screw	2	148764-0-01	
L-38	Spring	1	148652-0-01	
L-39	Connecting Pin	1	149174-0-01	

Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
L-40	Stop Ring	2	048040-3-42	
L-41	Reverse Crank	1	148642-0-01	
L-42	Stopper Lever	1	148765-0-01	
L-43	Spring	1	148653-0-01	
L-44	Solenoid Cover	1	148744-0-01	
L-45	Washer	2	025030-2-32	
L-46	Screw	2	002300-5-05	
L-47-1	Solenoid	1		L-47 "O" Reset Solenoid Assembly 148648-0-01
L-47-2	Plunger	1	148650-0-01	
L-47-3	Terminal Pin	2	143549-0-00	
L-48	Plunger Pin	1	148651-0-01	
L-49	Washer	4	025030-2-33	
L-50	Screw	4	002300-6-03	
L-51	Stopper	1	148763-0-01	
L-52	Pin	1	118713-0-01	
L-53	Screw	2	151602-0-02	
L-54	Stopper (A) Shaft	1	148767-0-01	
L-55	Reverse Link	1	148641-0-01	
L-56	Screw	1	110171-0-01	
L-57	6P Connector	1	146118-0-00	
L-58	Connector Cap	1	145596-0-01	
L-59	Cord Holder	1	148655-0-01	
L-60	Screw	2	009710-8-12	
L-61	Nylon Connector	1	145681-0-00	
L-62	Connector Cap	1	146119-0-00	
L-63	Solenoid Bracket	1	148561-0-01	
L-64	Screw	4	002400-8-03	
L-65	Screw	2	009711-0-12	
L-66-1	Thread Trimmer Solenoid	1		L-66 Thread Trimmer Solenoid Assembly 148542-0-01
L-66-2	Plunger	1	148545-0-01	
L-66-3	Solenoid Cord	1		
L-66-4	Terminal Pin	2	143549-0-00	
L-67	Plunger Pin	1	148546-0-01	
L-68-1	Thread Trimmer Solenoid	1		L-68 Thread Trimmer Solenoid Assembly 149245-0-01
L-68-2	Plunger	1	148545-0-01	
L-68-3	Solenoid Cord	1		
L-69-1	Solenoid	1		L-69 "O" Reset Solenoid Assembly 149244-0-01
L-69-2	Plunger	1	148650-0-01	
L-70-1	Solenoid	1		L-70 Reverse Solenoid Assembly 149243-0-01
L-70-2	Plunger	1	148637-0-01	

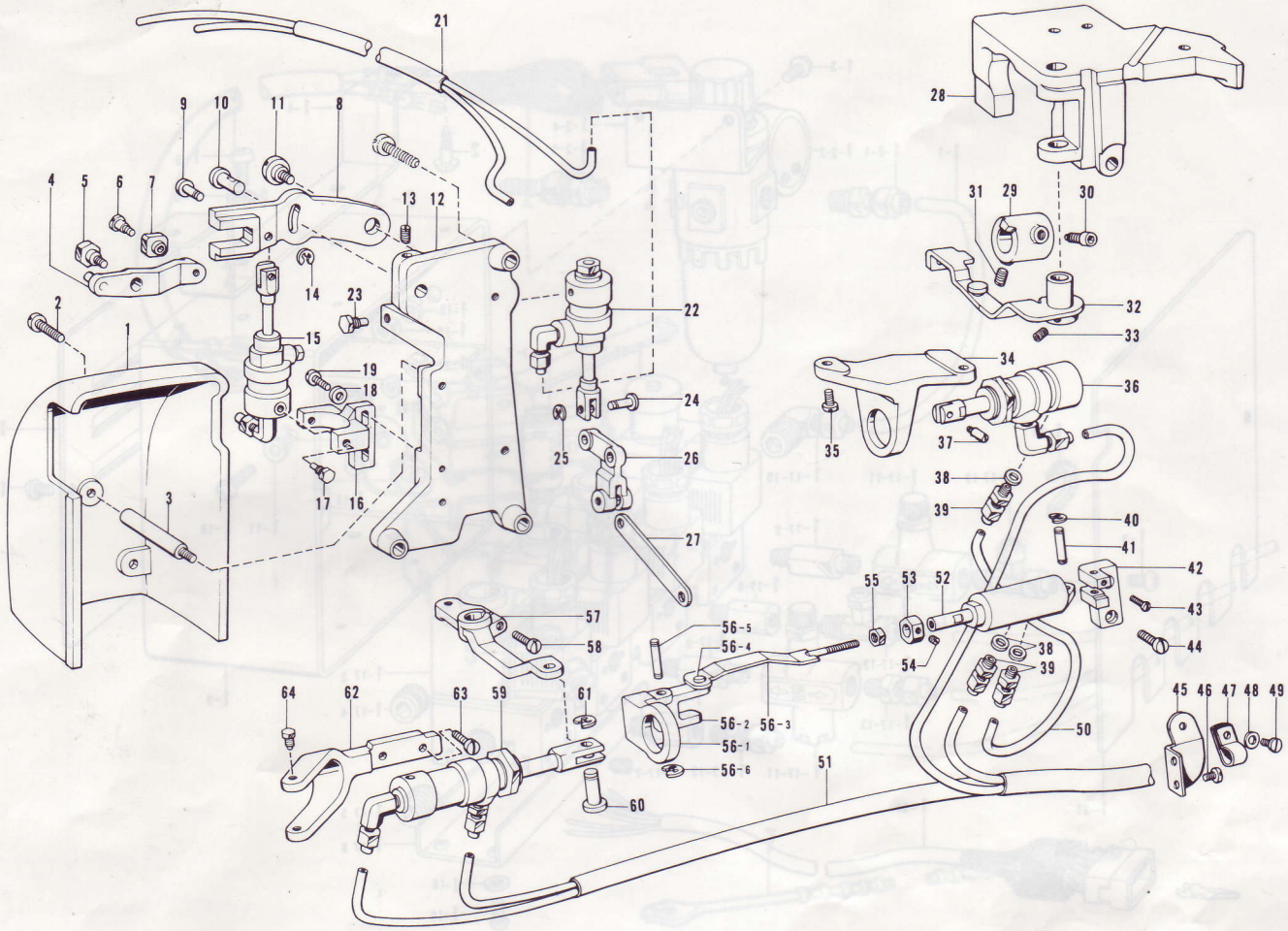
M. Synchronizer Mechanism -400 · -500 Specification



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
M-1- 1	Magnet Stud	1		M-1 Synchronizer Assembly #6-1 220067-0-01
M-1- 2	Screw	1	215083-0-01	
M-1- 3	Washer	1	025030-3-35	
M-1- 4	Ball Bearing	1		
M-1- 5	Synchronizer Holder	1		
M-1- 6	Washer	3	025040-3-35	
M-1- 7	Screw	3	217093-0-01	
M-1- 8	Hole I.C With Cord	1		
M-1- 9	Washer	2	025040-1-35	
M-1-10	Screw	2	215080-0-01	
M-1-11	Washer	1	025060-3-35	

Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
M-1-12	Washer	1	028060-2-43	M-1 Synchronizer Assembly #6-1 220067-0-01
M-1-13	Screw	1	216880-0-01	
M-1-15	Washer	2	025040-3-35	
M-1-16	Screw	2	215080-0-01	
M-1-17	Synchronizer Cover	1		
M-1-18	Label	1		
M-2	Screw		009711-4-12	
M-3	Synchronizer Holder Stud	1	148615-0-01	
M-4	Slip Ring Support	1	148825-0-01	
M-5	Screw	2	009711-4-12	

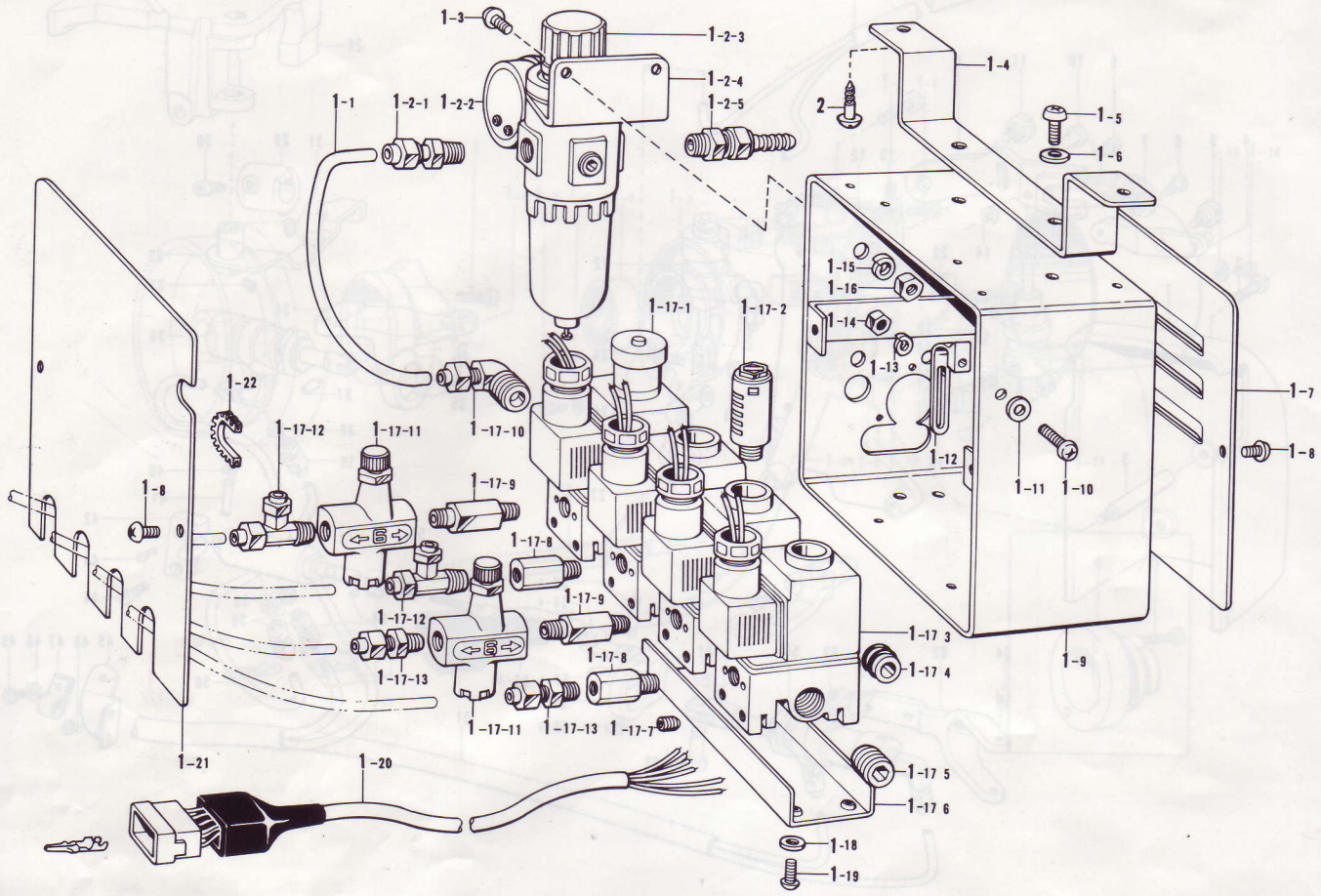
N. Thread Trimmer and Tension Release Mechanism -500 Specification



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
N- 1	Cylinder Cover	1	149035-0-01	
N- 2	Screw	2	009711-2-12	
N- 3	Cylinder Cover Stud	2	149034-0-01	
N- 4	Lever Assembly	1	149027-0-01	
N- 5	Stud Screw	1	149991-0-01	
N- 6	Screw	1	141494-0-01	
N- 7	Slide Block Assembly	1	149025-0-01	
N- 8	Presser Foot Lifter Lever	1	149024-0-01	
N- 9	Pin	1	146153-0-01	
N-10	Pin	1	118713-0-01	
N-11	Screw	1	141439-0-01	
N-12	Cylinder Base	1	149030-0-01	
N-13	Screw	1	013710-7-12	
N-14	Stop Ring	1	048040-3-42	
N-15	Presser Foot Lifter Cylinder	1	149019-0-01	
N-16	Cylinder Supporter	1	149023-0-01	
N-17	Screw	2	140620-0-01	
N-18	Washer	2	025710-2-32	
N-19	Screw	1	009711-6-12	
N-21	Air Tube Assembly	1	149285-0-01	
N-22	Reverse Cylinder	1	149031-0-01	
N-23	Screw	2	140620-0-01	
N-24	Pin	1	146153-0-01	
N-25	Stop Ring	1	048040-3-42	
N-26	Reverse Link Lever	1	149033-0-01	
N-27	Reverse Link	1	149063-0-01	
N-28	Movable Knife Base Bracket	1	149036-0-01	
N-29	Tension Release Cam	1	149061-0-01	
N-30	Screw	1	148574-0-01	
N-31	Screw	1	014770-6-22	
N-32	Tension Release Lever	1	149050-0-01	
N-33	Screw	2	014770-6-22	
N-34	Tension Release Cylinder Base	1	149049-0-01	
N-35	Screw	2	009711-0-12	

Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
N-36	Tension Release Cylinder	1	149043-0-01	
N-37	Plunger Pin	1	148546-0-01	
N-38	Packing	3	146699-0-00	
N-39	Male Connector Assembly	3	149241-0-01	
N-40	Stop Ring	1	048030-3-42	
N-41	Stud	1	149056-0-01	
N-42	Cylinder Supporter	1	149055-0-01	
N-43	Screw	1	009660-7-12	
N-44	Screw	2	105173-0-04	
N-45	Tube Holder	1	149286-0-01	
N-46	Screw	2	009670-8-12	
N-47	Nylon Clamp	1	149287-0-00	
N-48	Washer	1	105161-0-02	
N-49	Screw	1	009670-8-12	
N-50	Air Tube	1	149283-0-00	
N-51	Air Tube Assembly	1	149284-0-01	
N-52	Transfer Cylinder	1	149052-0-01	
N-53	Transfer Cylinder Nut	1	149281-0-01	
N-54	Screw	1	117666-0-01	
N-55	Nut	1	021670-1-02	
N-56-1	Valve Lever Supporter	1		N-56 Valve Lever Assembly 149058-0-01
N-56-2	Valve Lever	1		
N-56-3	Valve Connecting Rod	1		
N-56-4	Pin	1		
N-56-5	Stud	1	149056-0-01	
N-56-6	Stop Ring	2	048030-3-42	
N-57	Thread Trimming Lever	1	149042-0-01	
N-58	Screw	1	009711-4-12	
N-59	Thread Trimming Cylinder	1	149037-0-01	
N-60	Pin	1	146153-0-01	
N-61	Stop Ring	1	048040-3-42	
N-62	Cylinder Supporter	1	149040-0-01	
N-63	Screw	2	009711-6-12	
N-64	Screw	2	140620-0-01	

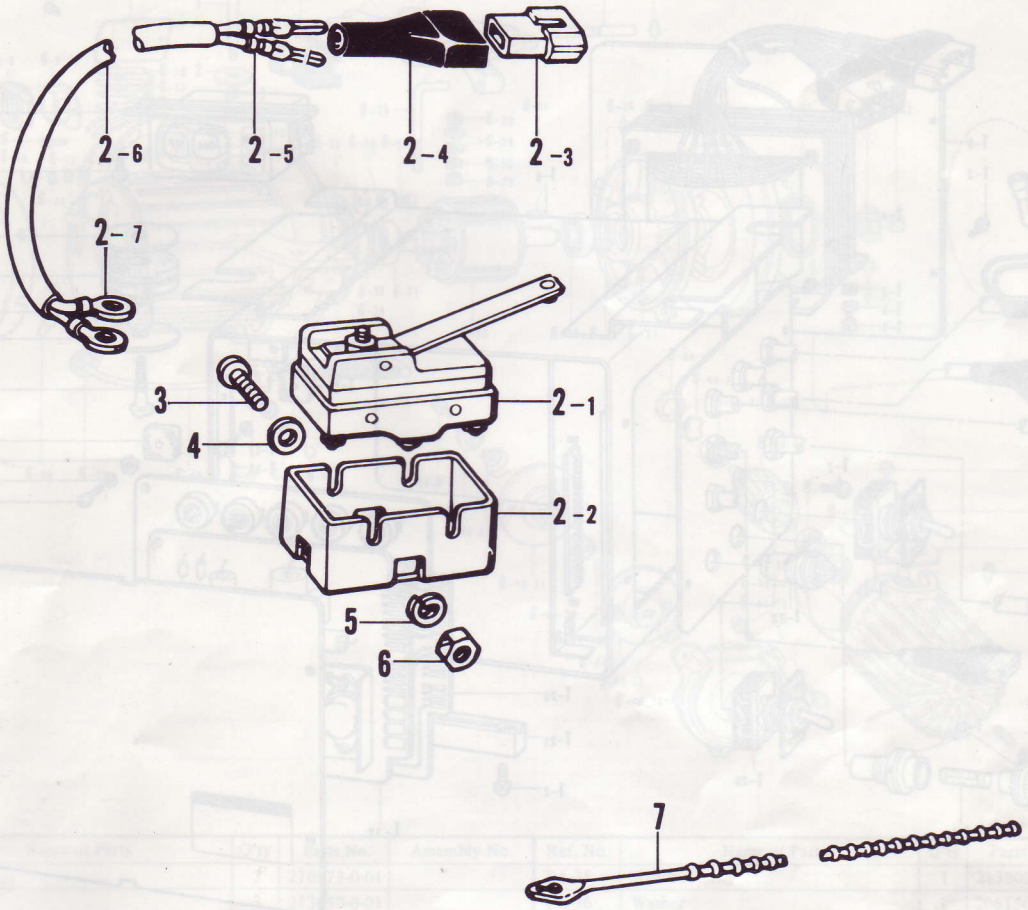
Q. Control Box Mechanism -500 Specification



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
Q-1- 1	Air Tube	1	140540-0-00	
Q-1- 2-1	1/4" Connector Assembly	1	142349-0-00	
Q-1- 2-2	Presser Gauge	1		Q-1-2 Air Unit Assembly 143959-1-04
Q-1- 2-3	Valve	1	143960-1-01	
Q-1- 2-4	Air Unit Holder Plate	1		
Q-1- 2-5	Air Tube Connector	1	140678-0-00	
Q-1- 3	Screw	2	002501-0-64	
Q-1- 4	Air Control Box Base	1	148968-0-01	
Q-1- 5	Screw	2	002501-0-64	
Q-1- 6	Washer	2	025050-1-34	
Q-1- 7	Face Cover	1		
Q-1- 8	Screw	4	008400-5-64	
Q-1- 9	Valve Box	1		Q-1 Valve Box Assembly 149153-0-01
Q-1-10	Screw	1	002301-0-03	
Q-1-11	Washer	1	025030-1-33	
Q-1-12	Cord Holder	1	144910-0-01	
Q-1-13	Washer	1	028030-2-43	
Q-1-14	Nut	1	021300-1-03	
Q-1-15	Washer	2	028050-2-43	
Q-1-16	Nut	3	021500-1-63	

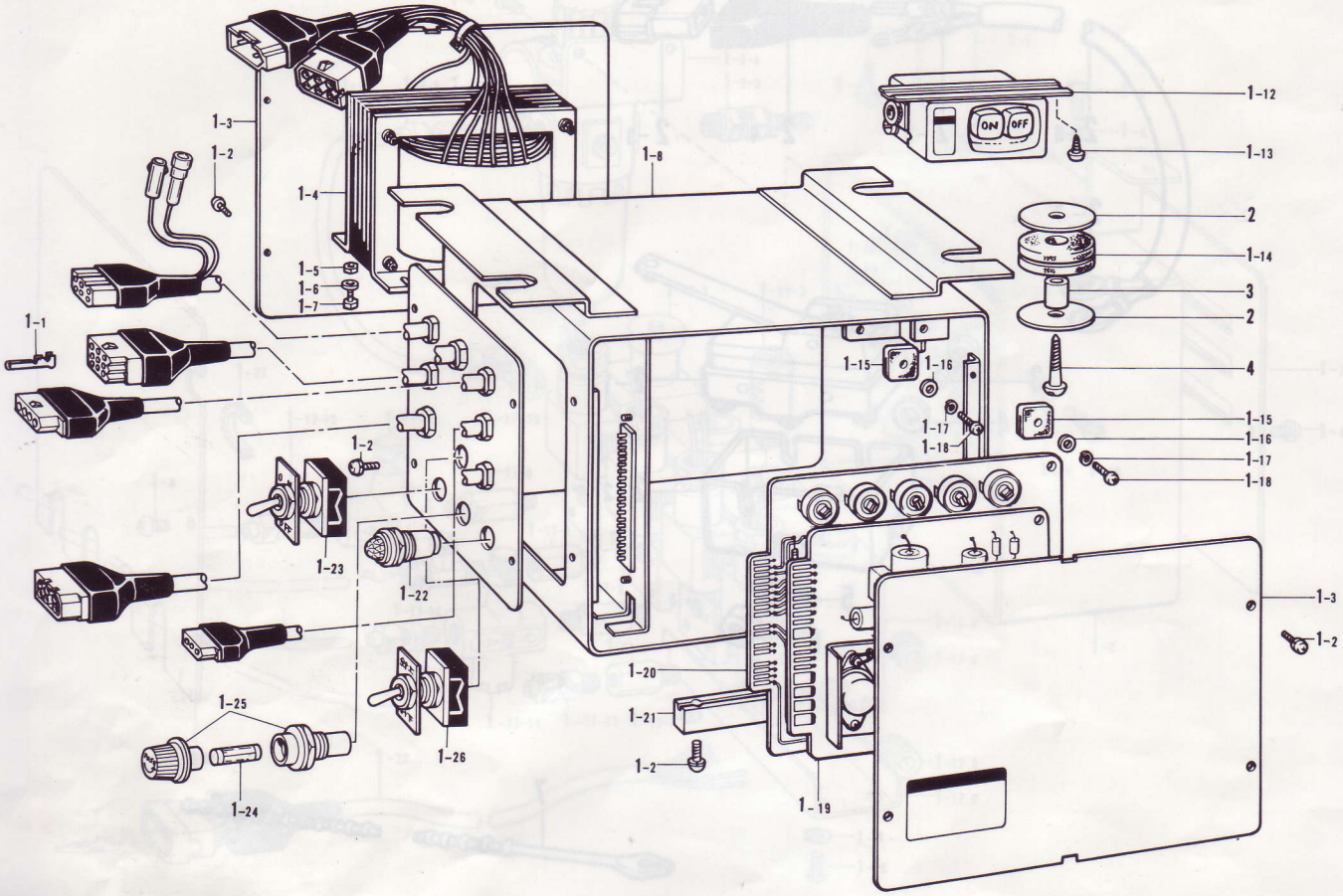
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
Q-1-17- 1	Solenoid Valve	1	149156-0-01	
Q-1-17- 2	Silencer	3	140682-0-01	
Q-1-17- 3	Solenoid Valve	3	145827-0-01	
Q-1-17- 4	Bushing with "O" Ring	3	140680-0-00	
Q-1-17- 5	1/4" Cap	1	140542-0-01	
Q-1-17- 6	Solenoid Valve Base	1	149157-0-01	Q-1-17 Solenoid Valve Assembly 149155-0-01
Q-1-17- 7	Screw	16	016500-8-22	
Q-1-17- 8	Valve Connector	2	140539-0-00	
Q-1-17- 9	Speed Control Connector	2	142037-0-00	
Q-1-17-10	1/4" Elbow	1	140538-0-00	
Q-1-17-11	Speed Connector	2	142038-0-01	
Q-1-17-12	Air Tube Connector	2	140544-0-00	
Q-1-17-13	1/8" Connector	2	140543-0-00	
Q-1-18	Washer	4	025040-2-33	
Q-1-19	Screw	4	002400-8-03	Q-1 Valve Box Assembly 149153-0-01
Q-1-20	Vavle Cord Assembly	1	149290-0-01	
Q-1-21	Rear Cover	1		
Q-1-22	Nylon Bushing	1	146171-0-00	
Q-2	Screw	2	100666-0-02	

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 Assembly	1	140948-0-01	R-2 Presser Foot Lifter Cord Assembly 146160-0-01	R-2-7	Terminal	2	140693-0-00	R-2 146160-0-01
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	

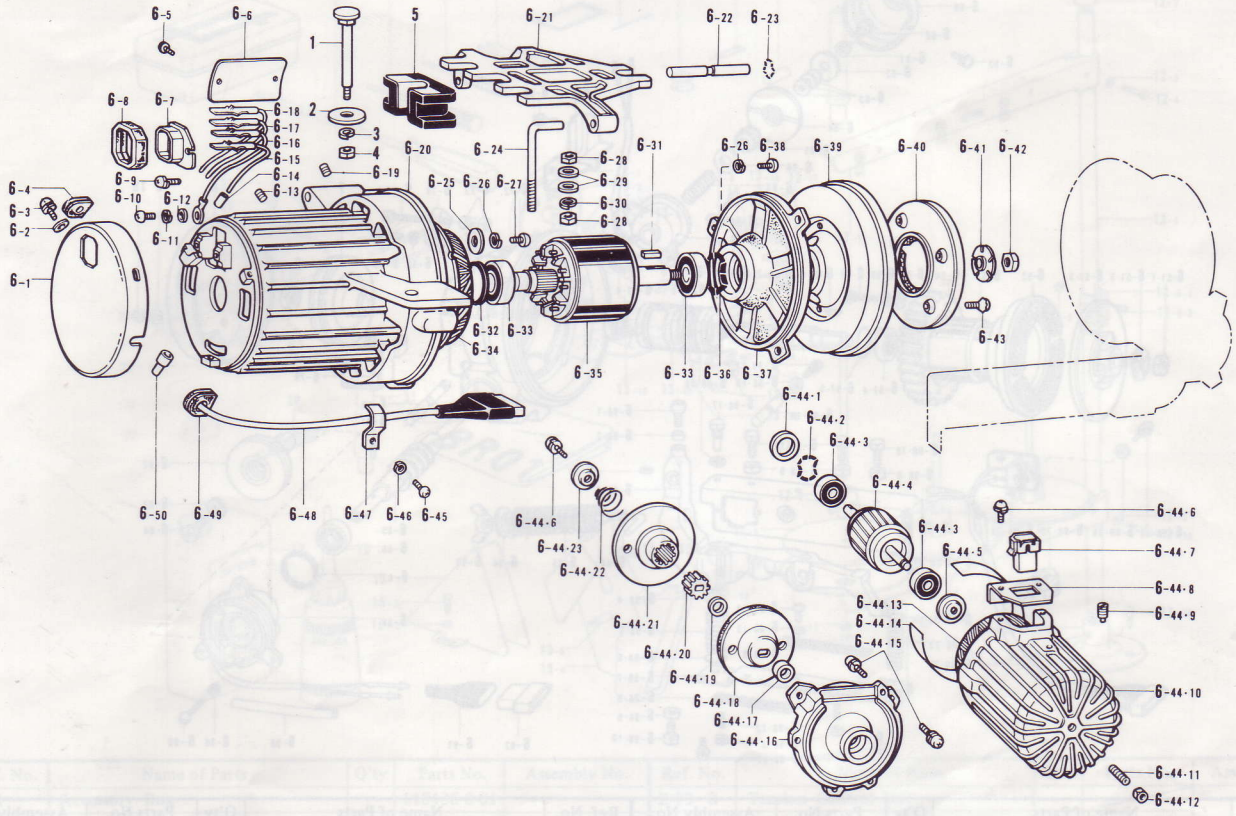
S. Control Box Mechanism -400 · -500 Specification



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- 2	Screw	8	215080-0-01	
S-1- 3	Control Box Front Cover Plate	2	216342-0-01	
S-1- 4	Transformer	1		
S-1- 5	Nut	4	218823-0-01	
S-1- 6	Washer	4	025040-2-35	
S-1- 7	Screw	4	216870-0-01	
S-1- 8	Control Box	1		
S-1-12	3p Push Button Switch	1	213794-0-01	
S-1-13	Screw	2	031451-6-03	
S-1-14	Cushion Rubber	4	216345-0-00	
S-1-15	Insulator Rubber	1	216351-0-01	
S-1-16	Washer	2	025030-3-35	

Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
S-1-17	Washer	1	028030-2-43	S-1 Control Box Assembly
S-1-18	Screw	2	002300-8-05	
S-1-19	Printed Circuit Board	1	219212-0-00	
S-1-20	Printed Circuit Board	1	219211-0-00	
S-1-21	Mounting Rail	2	218821-0-01	
S-1-22	Pilot Lamp	1	216364-0-00	
S-1-23	Pilot Lamp Switch	1	216905-0-01	
S-1-24	8A Fuse	1	219225-0-00	
S-1-25	Fuse Holder	1	215387-0-01	
S-1-26	Switch	1	219214-0-01	
S-2	Washer	8	214344-0-01	
S-3	Collar	4	216346-0-01	
S-4	Screw	4	031624-0-05	

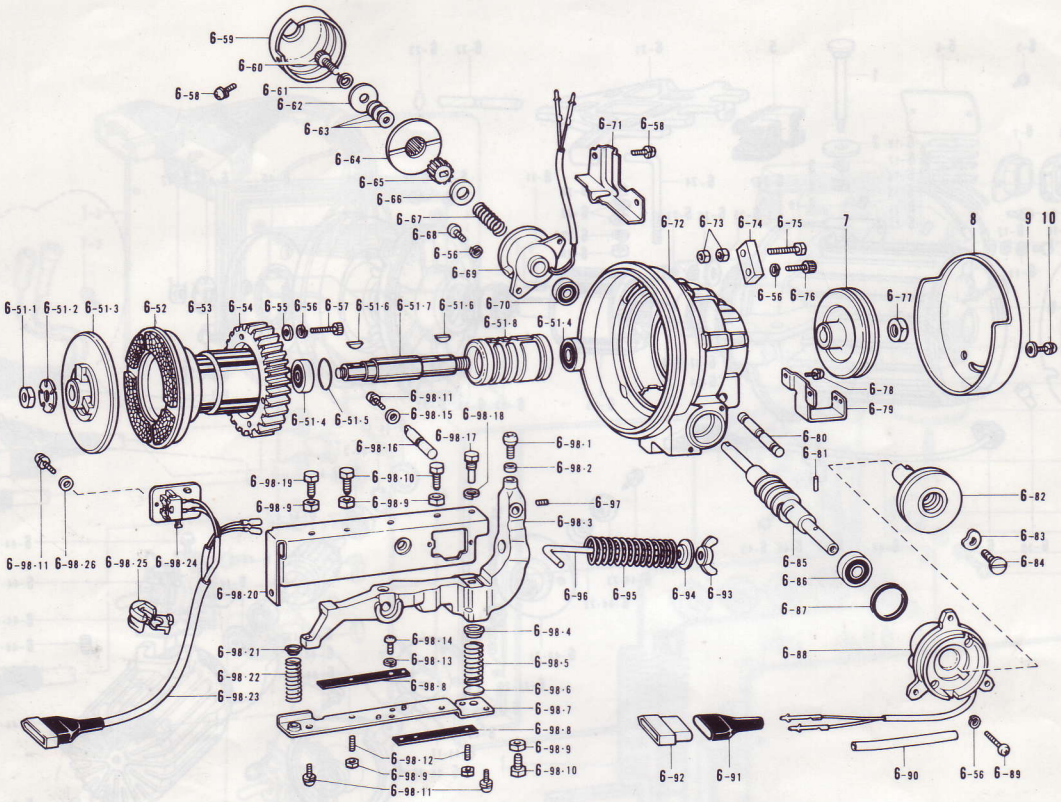
T. Motor (Part 1) -400 · -500 Specification



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
T-1	Bolt	3	210973-0-01	
T-2	Washer	3	213650-0-01	
T-3	Washer	3	028080-2-43	
T-4	Nut	3	021080-1-06	
T-5	Vibration Absorbing Rubber	3	213646-0-01	
T-6- 1	Frame Cover	1	218863-0-01	T-6 Motor Assembly
T-6- 2	Washer	3	025050-2-35	
T-6- 3	Screw	3	211528-0-01	
T-6- 4	Rubber Pad #72	1	218865-0-01	
T-6- 5	Pin	2	200084-0-02	
T-6- 6	Model Plate	1		
T-6- 7	7P Socket	1	213748-0-01	
T-6- 8	7P Socket Cover	1	218862-0-01	
T-6- 9	Screw	2	008400-8-06	
T-6-10	Screw	1	002401-0-63	
T-6-11	Washer	1	028040-2-43	
T-6-12	Nut	1	025040-1-73	
T-6-13	Screw	1	013080-8-13	
T-6-14	Vinyl Cap for Lead Wire	2	218951-0-01	
T-6-15	Lead Wire (White)	2	218861-0-01	
T-6-16	Lead Wire for Earth	1	213792-0-01	
T-6-17	Lead Wire (Read)	1	218861-0-02	
T-6-18	Lead Wire (Black)	1	218861-0-03	
T-6-19	Screw	1	011060-6-13	
T-6-20	Frame #54	1	218831-0-01	
T-6-21	Base	1	218874-0-01	
T-6-22	Pin	1	218875-0-01	
T-6-23	Washer	1	213765-0-01	
T-6-24	Bolt Adjusting Rod	1	210965-0-01	
T-6-25	Washer	3	213752-0-01	
T-6-26	Spring Washer	6	028050-2-43	
T-6-27	Screw	3	218905-0-01	
T-6-28	Nut	2	021100-2-06	
T-6-29	Washer	2	025100-2-36	
T-6-30	Washer	1	028100-2-43	
T-6-31	Key	1	210940-0-00	
T-6-32	Rubber Washer 708 x 35 x 40RU	1	210938-0-01	
T-6-33	Bearing 6203VV	2	072620-3-60	
T-6-34	Stator	1	218851-0-01	

Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
T-6-35	Rotor	1	213802-0-01	T-6 Motor Assembly
T-6-36	Washer	1	206156-0-01	
T-6-37	Bracket	1	218871-0-01	
T-6-38	Screw	3	002501-6-05	
T-6-39	Fly Wheel	1	218872-0-01	
T-6-40	Clutch Lining #4	1	218873-0-00	
T-6-41	Washer	1	210941-0-02	
T-6-42	Nut	1	210942-0-02	
T-6-43	Screw	4	214897-0-01	
T-6-44- 1	Washer	2	218913-0-01	T-6-44 Sub Motor Assembly 218906-0-01
T-6-44- 2	Washer	3	218870-0-01	
T-6-44- 3	Bearing 608VV	2	072060-8-60	
T-6-44- 4	Roter	1	218907-0-01	
T-6-44- 5	Roter Push Plate	1	218910-0-00	
T-6-44- 6	Screw	3	215080-0-01	
T-6-44- 7	3P Plug	1	216299-0-01	
T-6-44- 8	Plug Set Plate	1	216300-0-01	
T-6-44- 9	Screw	1	216286-0-01	
T-6-44-10	Sed Motor Fram #55	1	218911-0-01	
T-6-44-11	Screw	1	012061-8-22	
T-6-44-12	Nut	1	021060-3-05	
T-6-44-13	Stator	1	218914-0-00	
T-6-44-14	Insulator Paper	2	216284-0-00	
T-6-44-15	Screw	3	211528-0-01	
T-6-44-16	Bracket	1	218912-0-00	
T-6-44-17	Collar	1	218922-0-01	
T-6-44-18	Clutch Plate	1	218916-0-01	
T-6-44-19	Washer	1	218921-0-01	
T-6-44-20	Selation	1	217280-0-01	
T-6-44-21	Round Plate	1	218918-0-01	
T-6-44-22	Spring	1	218919-0-01	
T-6-44-23	Washer	1	218920-0-00	
T-6-45	Screw	1	002500-8-06	
T-6-46	Spring Washer	1	028050-2-43	
T-6-47	Cord Holder	1	218866-0-01	
T-6-48	Plug for Sub Motor	1	218867-0-01	
T-6-49	Rubber Pad #71	1	218864-0-01	
T-6-50	Crimp Connector	3	217169-0-00	

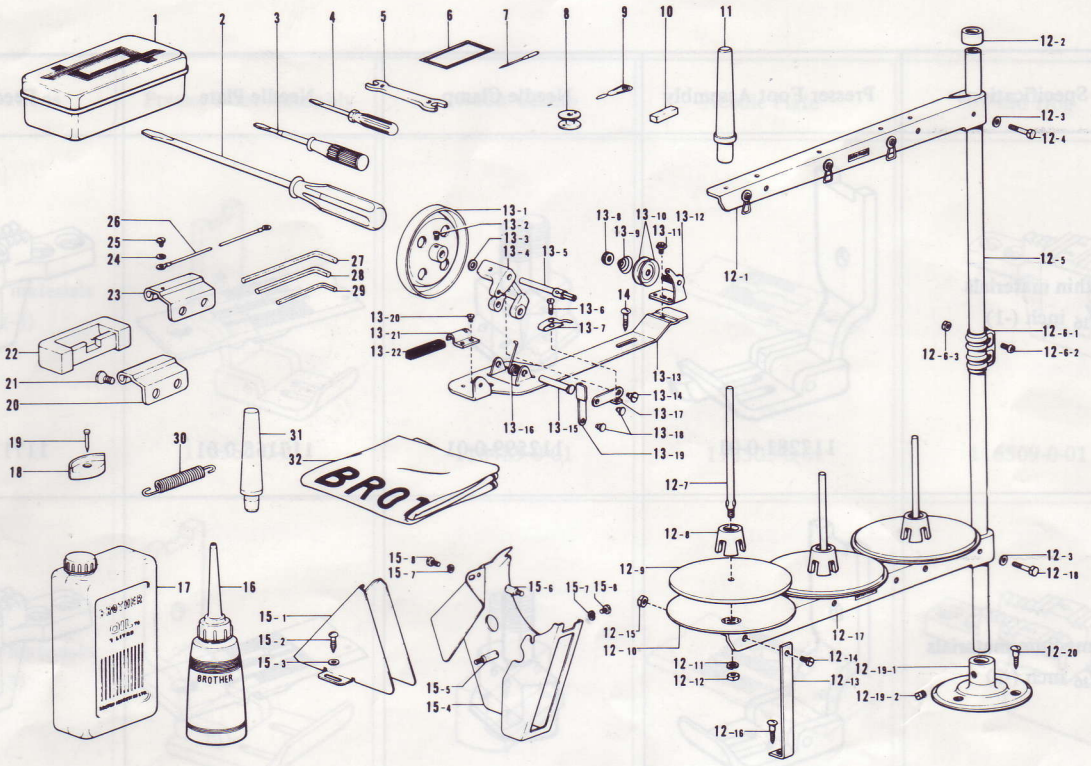
T. Motor (Part 2) -400 · -500 Specification



Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
T-6-51-1	Nut	1	210942-0-02	
T-6-51-2	Washer	1	210941-0-02	
T-6-51-3	Clutch Plate #6	1	213750-0-00	T-6-51 Clutch Plate #8 Assembly 218877-0-01
T-6-51-4	Bearing 620VV	2	072620-2-60	
T-6-51-5	Washer	1	210948-0-01	
T-6-51-6	Key	2	210421-0-00	
T-6-51-7	Clutch Shaft	1	218878-0-00	
T-6-51-8	Clutch Shaft Supporter	1	218879-0-01	
T-6-52	Brake Lining	1	218882-0-00	
T-6-53	Supporter for Clutch Shaft Supporter	1	290439-0-00	
T-6-54	Gear 1/21	1	216219-0-00	
T-6-55	Washer	4	025050-1-35	
T-6-56	Washer	9	028050-2-43	
T-6-57	Screw	4	018502-5-22	
T-6-58	Screw	4	215080-0-01	
T-6-59	Brake Cover	1	218902-0-01	
T-6-60	Bolt	1	018401-4-22	
T-6-61	Spring Washer	1	028040-2-43	
T-6-62	Washer	1	218896-0-00	
T-6-63	Spacer	4	218860-0-01	
T-6-64	Brake Disc	1	218895-0-01	
T-6-65	Selation	1	217280-0-01	
T-6-66	Washer	1	218894-0-01	
T-6-67	Spring	1	218893-0-01	T-6 Motor Assembly
T-6-68	Screw	2	002501-6-05	
T-6-69	Brake Solenoid	1	218915-0-01	
T-6-70	Bearing 608VV	1	072060-8-60	
T-6-71	Cord Holder	1	218930-0-01	
T-6-72	Bracket	1	218876-0-01	
T-6-73	Nut	2	021060-3-05	
T-6-74	Space Adjusting Plate	1	218881-0-01	
T-6-75	Bolt	1	219405-0-01	
T-6-76	Bolt	1	018502-2-23	
T-6-77	Nut	1	210240-0-01	
T-6-78	Screw	2	211528-0-01	
T-6-79	Belt Cover Set Plate	1	216380-0-01	
T-6-80	Pin	1	213757-0-02	
T-6-81	Spring Pin	1	218952-0-01	
T-6-82	Clutch Plate #2	1	218885-0-01	
T-6-83	Washer	1	218891-0-01	
T-6-84	Screw	1	218892-0-01	
T-6-85	Worm 1/21	1	218884-0-00	

Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
T-6-86	Bearing 6201VV	1	072620-1-61	
T-6-87	Washer	1	216277-0-01	
T-6-88	Clutch Solenoid	1	218903-0-01	
T-6-89	Screw	2	002503-5-05	
T-6-90	Vinyl Tube	1	216837-0-01	
T-6-91	Plug Cover	1	216248-0-01	T-6 Motor Assembly
T-6-92	4P Plug	1	216247-0-01	
T-6-93	Nut	1	206337-0-02	
T-6-94	Spring Cap	1	213760-0-01	
T-6-95	Spring	1	218929-0-01	
T-6-96	Pedal Pressure Adjusting Screw	1	218928-0-01	
T-6-97	Screw	1	014061-0-22	
T-6-98- 1	Ball Screw	1	216225-0-01	
T-6-98- 2	Nut	1	218921-0-01	
T-6-98- 3	Clutch Lever	1	218924-0-01	
T-6-98- 4	Spring Cap	1	216233-0-01	
T-6-98- 5	Spring	1	218945-0-01	
T-6-98- 6	Washer	1	216235-0-00	
T-6-98- 7	Clutch Lever Bottom Plate	1	218946-0-01	
T-6-98- 8	Switch Presser Plate	2	216241-0-01	
T-6-98- 9	Nut	6	021060-3-05	
T-6-98-10	Bolt	3	213913-0-01	
T-6-98-11	Screw	8	215080-0-01	T-6-98 Clutch Lever #8 Assembly 218923-0-01
T-6-98-12	Screw	2	012061-2-22	
T-6-98-13	Spring Washer	2	028040-2-43	
T-6-98-14	Screw	2	002400-6-05	
T-6-98-15	Washer	1	025040-3-35	
T-6-98-16	Pin	1	218926-0-01	
T-6-98-17	Bolt	1	216232-0-01	
T-6-98-18	Washer	1	028060-2-43	
T-6-98-19	Bolt	1	214002-0-01	
T-6-98-20	Clutch Lever Cover	1	218925-0-01	
T-6-98-21	Spring Cap	1	218927-0-01	
T-6-98-22	Spring	1	216230-0-01	
T-6-98-23	Micro Key Cord	1	218947-0-01	
T-6-98-24	Micro Switch	2	216236-0-01	
T-6-98-25	Bushing	1	212544-0-01	
T-6-98-26	Washer	4	025040-1-35	
T-7	Pulley	1		
T-8	Belt Cover	1	215491-0-01	
T-9	Washer	2	025050-3-35	
T-10	Screw	2	211528-0-01	

Z. Accessories

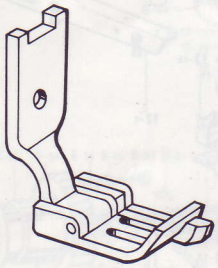
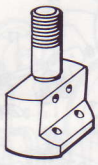
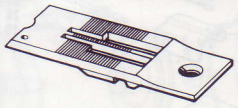
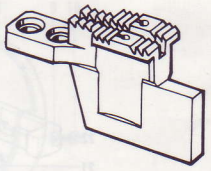
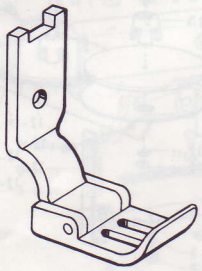
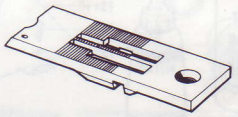
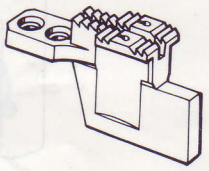
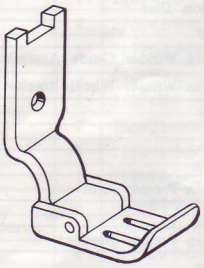
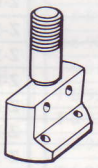
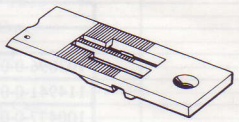
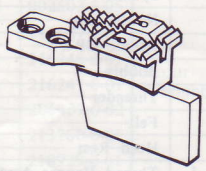
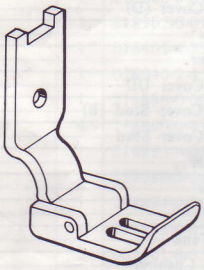
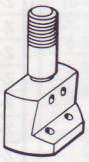
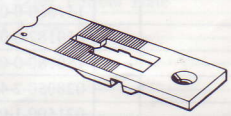
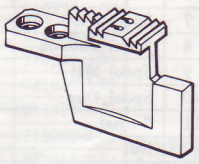
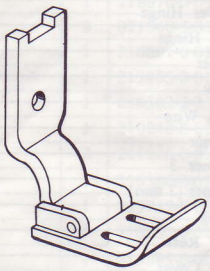
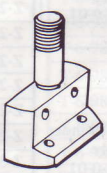
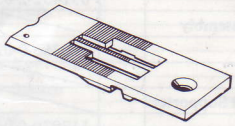
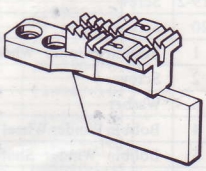


Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
Z- 1	Accessory Box		110436-0-01	
Z- 2	Screw Driver		101572-1-01	
Z- 3	Screw Driver		118837-0-01	
Z- 4	Screw Driver		142443-0-01	
Z- 5	Spanner 8 x 9		100887-0-01	
Z- 6	Needle Bag			
Z- 7	Needle DP x 5			
Z- 8	Bobbin			
Z- 9	Threader		103896-0-02	
Z-10	Felt		114941-0-01	
Z-11	Head Rest		100477-0-01	
Z-12- 1	Thread Hanger Assembly		150193-0-01	
Z-12- 2	Column Cap			Z-12 Cotton Stand Assembly 150151-0-01
Z-12- 3	Washer		025050-2-33	
Z-12- 4	Bolt		017502-8-03	
Z-12- 5	Column Pipe		150172-0-01	
Z-12- 6-1	Joint			Z-12-6 Joint for Cotton Stand 150106-0-01
Z-12- 6-2	Screw		150202-0-01	
Z-12- 6-3	Nut		021500-1-03	
Z-12- 7	Spool Shaft (B)		150179-0-01	
Z-12- 8	Spool Cushion		147060-0-01	
Z-12- 9	Spool Mat		150182-0-00	
Z-12-10	Spool Disc		150180-0-00	
Z-12-11	Washer		028050-2-43	Z-12 Cotton Stand Assembly 150151-0-01
Z-12-12	Nut		021500-1-03	
Z-12-13	Spool Holder Supporter		150188-0-01	
Z-12-14	Screw		007501-0-03	
Z-12-15	Nut		021500-1-03	
Z-12-16	Screw		031452-2-03	
Z-12-17	Spool Holder Assembly		150175-0-01	
Z-12-18	Bolt		017502-8-03	
Z-12-19-1	Cotton Stand Base		150189-0-01	Z-12-19 Bracket Assembly 150139-0-01
Z-12-19-2	Screw		150181-0-01	
Z-12-20	Screw		031452-2-03	
Z-13- 1	Bobbin Winder Wheel Assembly			
Z-13- 2	Screw		100366-0-02	
Z-13- 3	Washer			
Z-13- 4	Bobbin Winder Wheel Shaft Supporter			Z-13 Bobbin Winder Assembly 117963-0-01
Z-13- 5	Bobbin Winder Shaft		117970-0-01	
Z-13- 6	Screw		100657-0-01	
Z-13- 7	Bobbin Presser			

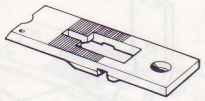
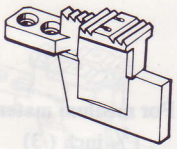
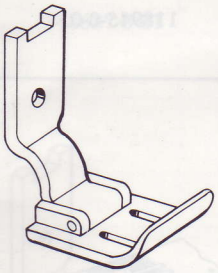
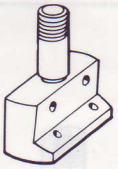
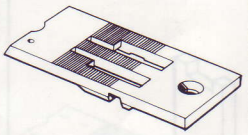
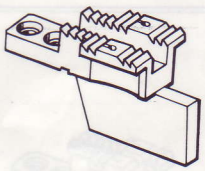
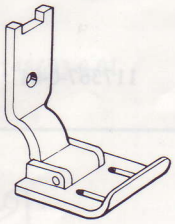
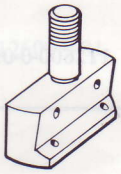
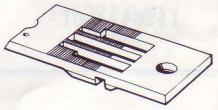
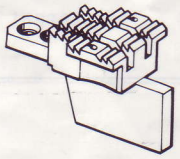
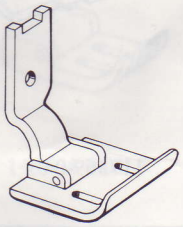
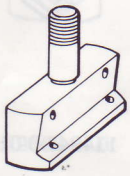
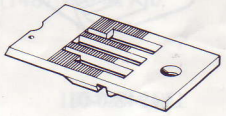
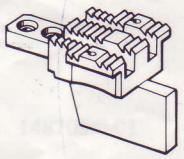
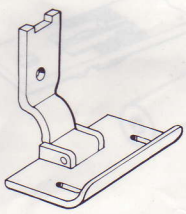
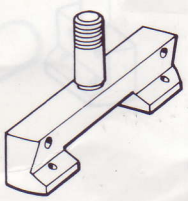
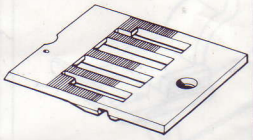
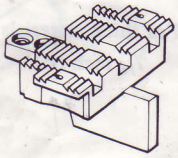
Ref. No.	Name of Parts	Q'ty	Parts No.	Assembly No.
Z-13- 8	Tension Control Nut			
Z-13- 9	Tension Spring		100401-0-01	
Z-13-10	Tension Disc		145446-0-01	
Z-13-11	Screw			
Z-13-12	Bobbin Winder Guide Assembly			
Z-13-13	Bobbin Winder Wheel Bracket			
Z-13-14	Screw		100659-0-01	Z-13 Bobbin Winder Assembly 117963-0-01
Z-13-15	Pin			
Z-13-16	Spring		117969-0-01	
Z-13-17	Bobbin Presser Arm			
Z-13-18	Pin		100661-0-01	
Z-13-19	Bobbin Presser Bracket			
Z-13-20	Screw		009679-3-12	
Z-13-21	Bobbin Winder Wheel Stopper Holder			
Z-13-22	Bobbin Winder Wheel Stopper		100662-0-01	
Z-14	Screw		100666-0-02	
Z-15- 1	Belt Cover (D)			
Z-15- 2	Screw		100666-0-02	
Z-15- 3	Washer		025750-1-32	
Z-15- 4	Belt Cover UD			Z-15 Belt Cover Complete D 147908-0-01
Z-15- 5	Belt Cover Stud (B)		147856-0-02	
Z-15- 6	Belt Cover Stud		147858-0-01	
Z-15- 7	Washer		028680-2-42	
Z-15- 8	Screw		009680-8-12	
Z-16	Oiler		114483-0-01	
Z-17	Oil Tank		145277-1-03	
Z-18	Head Cushion		148890-1-01	
Z-19	Nail		109714-0-00	
Z-20	Head Hinge		148882-0-01	
Z-21	Screw		112569-0-01	
Z-22	Rubber Hinge		143910-0-01	
Z-23	Head Hinge		150557-0-01	
Z-24	Washer		025680-2-34	
Z-25	Screw		009680-6-13	
Z-26	Earth Wire		145946-0-01	
Z-27	Spanner		149570-0-01	
Z-28	Spanner 3		142721-0-01	
Z-29	Spanner (2 mm)		142002-0-01	
Z-30	Spring			
Z-31	Head Rest		149010-0-00	
Z-32	Head Cover		144222-0-01	

***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 incluídos pueden variar.**

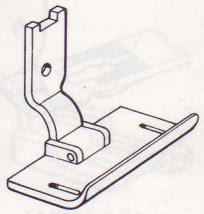
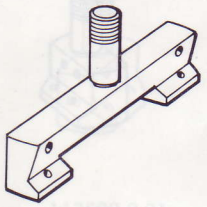
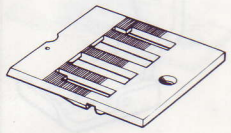
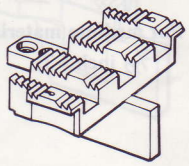
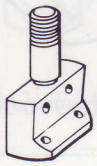
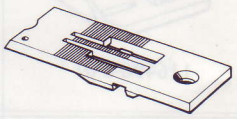
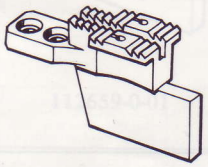
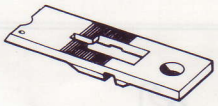
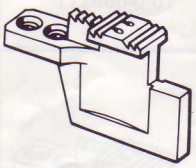
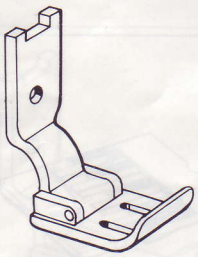
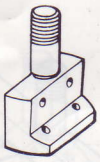
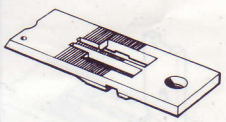
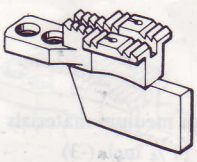
Gauge Parts for Standard (-1 · -3 · -5)

Specifications	Presser Foot Assembly	Needle Clamp	Needle Plate	Feed Dog
For thin materials $\frac{3}{16}$ inch (-1)	 117281-0-01	 112599-0-01	 117158-0-01	 117134-0-01
For medium materials $\frac{3}{16}$ inch (-3)	 112638-0-01	112599-0-01	 112603-0-01	 112659-0-01
For medium materials $\frac{1}{4}$ inch (-3)	 112642-0-01	 112600-0-01	 112604-0-01	 112660-0-01
For medium materials $\frac{1}{8}$ inch (-3)	 114948-0-01	 114947-0-01	 114950-0-01	 114951-0-01
For medium materials $\frac{5}{16}$ inch (-3)	 112645-0-01	 112601-0-01	 112605-0-01	 112661-0-01

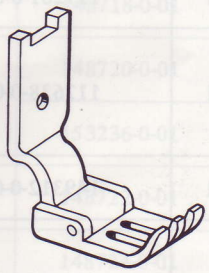
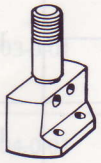
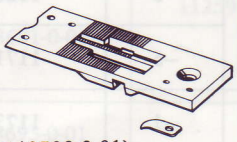
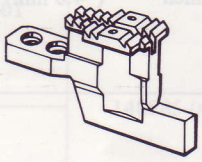
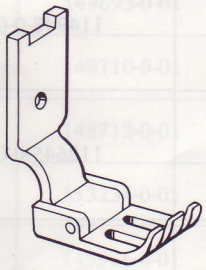
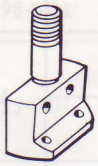
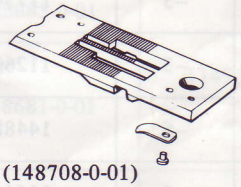
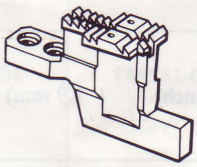
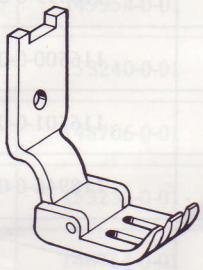
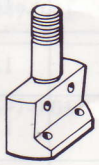
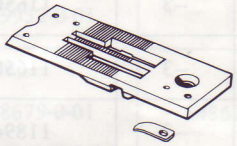
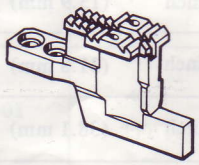
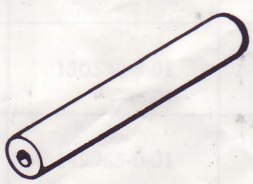
Gauge Parts for Standard (-1 · -3 · -5)

Specifications	Presser Foot Assembly	Needle Clamp	Needle Plate	Feed Dog
For medium materials $\frac{5}{32}$ inch (-3)	116502-0-01	116489-0-01	 116503-0-01	 116509-0-01
For medium materials $\frac{3}{8}$ inch (-3)	 116498-0-01	 116491-0-01	 116506-1-01	 116510-1-01
For medium materials $\frac{1}{2}$ inch (-3)	 116499-0-01	 116490-0-01	 116505-0-01	 116511-0-01
For medium materials $\frac{5}{8}$ inch (-3)	 116500-0-01	 116488-0-01	 116507-0-01	 116512-0-01
For medium materials $1\frac{1}{4}$ inch (-3)	 116501-0-01	 116492-0-01	 116504-0-01	 116508-0-01

Gauge Parts for Standard (-1 · -3 · -5)

Specifications	Presser Foot Assembly	Needle Clamp	Needle Plate	Feed Dog
For medium materials $1\frac{1}{2}$ inch (-3)	 118946-0-01	 118944-0-01	 118945-0-01	 118947-0-01
For thick materials $\frac{1}{4}$ inch (-5)	112642-0-01	 112600-0-01	 117367-0-01	 112660-0-01
For thick materials $\frac{1}{8}$ inch (-5)	114948-0-01	114947-0-01	 117369-0-01	 114951-0-01
For thick materials $\frac{5}{16}$ inch (-5)	 112645-0-01	 112601-0-01	 144882-0-01	 112661-0-01

Gauge Parts for Thread Trimmer (-400 · -500)

Specifications	Presser Foot Assembly	Needle Clamp	Needle Plate	Feed Dog
For medium materials $\frac{3}{16}$ inch **(-403 · -503)**	 148687-0-01	 112599-0-01	 (148708-0-01) (148709-0-01) 148718-0-01	 148702-0-01
For medium materials $\frac{1}{4}$ inch **(-403 · -503)**	 148693-0-01	 112600-0-01	 (148708-0-01) (148709-0-01) 148722-0-01	 148704-0-01
For thick materials $\frac{1}{4}$ inch **(-405 · -505)**	 148695-0-01	 112600-0-01	 (148708-0-01) (148709-0-01) 148724-0-01	 148705-0-01
Thread Trimmer materials	Thread Wiper Holder $\frac{3}{32}$" ~ $\frac{1}{2}$" 148528-0-01		Thread Wiper Holder (L) $\frac{5}{8}$" ~ 1"  149986-0-01	

GAUGE PARTS LIST

For Standard (-1 · -3 · -5)

Needle Gauge	Sub-Class	Needle Plate	Feed Dog	Presser Foot Assembly	Needle Clamp
3/16 inch (4.8 mm)	-1	117158-0-01	117134-0-01	117281-0-01	112599-0-01
	-3	112603-0-01	112659-0-01	112638-0-01	
	-5	117133-0-01			
1/4 inch (6.4 mm)	-1	117368-0-01	117365-0-01	149312-0-01	112600-0-01
	-3	112604-0-01	112660-0-01	112642-0-01	
	-5	117367-0-01			
1/8 inch (3.2 mm)	-1	117370-0-01	117366-0-01	149311-0-01	114947-0-01
	-3	114950-0-01	114951-0-01	114948-0-01	
	-5	117369-0-01			
5/16 inch (7.9 mm)	-3	112605-0-01	112661-0-01	112645-0-01	112601-0-01
	-5	144882-0-01			
3/8 inch (9.5 mm)	-3	116506-1-01	116510-1-01	116498-0-01	116491-0-01
	-5	144881-1-01			
5/32 inch (4.0 mm)	-3	116503-0-01	116509-0-01	116502-0-01	116489-0-01
1/2 inch (12.7 mm)	-3	116505-0-01	116511-0-01	116499-0-01	116490-0-01
5/8 inch (15.9 mm)	-3	116507-0-01	116512-0-01	116500-0-01	116488-0-01
1 1/4 inch (31.8 mm)	-3	116504-0-01	116508-0-01	116501-0-01	116492-0-01
1 1/2 inch (38.1 mm)	-3	118945-0-01	118947-0-01	118946-0-01	118944-0-01
1/16 inch (1.59 mm)	-3	142111-0-01			
2 1/16 inch (55.0 mm)	-5	147560-0-01	147561-0-01	147562-0-01	147564-0-01
2 inch (50.8 mm)	-3	144951-0-01	144947-0-01	144949-0-01	144948-0-01
Longitudinal 2 (50.8 mm)	-1 · -5		142110-0-01	142105-0-01	142109-0-01

GAUGE PARTS LIST

For Thread Trimmer (-400 · -500)

Needle Gauge	Sub Class	Needle Plate Assembly	Feed Dog	Presser Foot Assembly	Needle Clamp	Connecting Rod Assembly
3/16 inch (4.8 mm)	–1 · –3	148718-0-01	148702-0-01	148687-0-01	112599-0-01	148585-0-01
	–5	148720-0-01	148703-0-01	148691-0-01		
		153236-0-01				
1/4 inch (6.4 mm)	–1 · –3	148722-0-01	148704-0-01	148693-0-01	112600-0-01	
	–5	148724-0-01	148705-0-01	148695-0-01		
		153238-0-01				
5/16 inch (7.9 mm)	–1 · –3	149695-0-01	149692-0-01	149689-0-01	112601-0-01	149697-0-01
	–5	149693-0-01	149691-0-01	149687-0-01		
1/8 inch (3.2 mm)	–1 · –3	148710-0-01	148698-0-01	148685-0-01	114947-0-01	148581-0-01
	–5	148712-0-01	148699-0-01	148681-0-01		
		153234-0-01				
3/8 inch (9.5 mm)	–1 · –3	149946-0-01	149939-0-01	149942-0-01	116491-0-01	149697-0-01
	–5	149944-0-01	149938-0-01	149940-0-01		
5/8 inch (15.9 mm)	–1 · –3	149956-0-01	149949-0-01	149952-0-01	116488-0-01	149958-0-01
	–5	149954-0-01	149948-0-01	149950-0-01		
		153240-0-01	149949-0-01	149952-0-01		
3/32 inch (2.4 mm)	–1 · –3	148706-0-01	148697-0-01	148679-0-01	148678-0-01	148581-0-01
	–5	153232-0-01				
5/32 inch (4.0 mm)	–1 · –3	148714-0-01	148700-0-01	148689-0-01	116489-0-01	
	–5	148716-0-01	148701-0-01	148683-0-01		
1/2 inch (12.7 mm)	–1 · –3	149679-0-01	149676-0-01	149673-0-01	116490-0-01	149685-0-01
	–5	149677-0-01	149675-0-01	149671-0-01		
3/4 inch (19.0 mm)	–5	150526-0-01	150523-0-01	150524-0-01	150522-0-01	150528-0-01
7/8 inch (22.2 mm)	–5	150534-0-01	150531-0-01	150532-0-01	150530-0-01	150536-0-01
1 inch (25.4 mm)	–5	149966-0-01	149960-0-01	149962-0-01	149985-0-01	149970-0-01

DIFFERENT PARTS LIST

Ref. No.	Name of Parts / Sub Class / Gauge	−1	−3								
		3/16	3/16	1/4	1/8	5/16	5/32	3/8	1/2	5/8	1.1/4
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)	117158-0-01	112603-0-01	112604-0-01	114950-0-01	112605-0-01	116503-0-01	116506-1-01	116505-0-01	116507-0-01	116504-0-01
A-36	Screw	117160-0-01	100032-0-03								
A-39	Slide Plate, Left	112606-0-01									145721-0-01
A-41	Slide Plate Front Assembly	112610-0-01									
B- 3	Thread Take-up Lever	112578-0-01									
B-30	Pulley	144614-0-01									
B-32	Screw	104478-0-01									
B-34	Needle Clamp	112599-0-01		112000-0-01	114947-0-01	112601-0-01	116489-0-01	116491-0-01	116490-0-01	116488-0-01	116492-0-01
B-36	Needle DP x 5	107415-0-11	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	117281-0-01	112638-0-01	112642-0-01	114948-0-01	112645-0-01	116502-0-01	116498-0-01	116499-0-01	116500-0-01	116501-0-01
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	151609-0-01									
C-29	Knee Lifter Assembly	113380-0-01									
C-30	Screw	106030-0-01									
C-31	Finger Guard Supporter		☆ 151191-0-01								
C-32	Screw		☆ 144458-0-01								
C-33	Finger Guard		☆ 150917-0-01								
C-34	Screw		☆ 149177-0-01								
D-13	Length Control Plate	151508-0-01									
D-18	Feed Regulator Lever Shaft	151080-0-01									

The parts Nos. marked with ☆ are for 80306 . 80314 and 80512 type specification.

Ref. No.	Name of Parts / Sub Class / Gauge	−3	−5			−403		−405	−503		−505
		1.1/2	1/4	1/8	5/16	3/16	1/4	1/4	3/16	1/4	1/4
A-15	Upper Tension Control Assembly	144678-0-01	148011-1-01								
A-15-9	Tension Spring	118317-0-01	148672-0-01								
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)	118945-0-01	117367-0-01	117369-0-01	144882-0-01	148718-0-01	148722-0-01	148724-0-01	148718-0-01	148722-0-01	148724-0-01
A-36	Screw	100032-0-03									
A-39	Slide Plate, Left	145721-0-01	112606-0-01								
A-41	Slide Plate Front Assembly	112610-0-01									
B- 3	Thread Take-up Lever	112578-0-01	140525-0-01			112578-0-01					
B-30	Pulley	144614-0-01									
B-32	Screw	104478-0-01									
B-34	Needle Clamp	118944-0-01	112600-0-01	114947-0-01	112601-0-01	112599-0-01	112600-0-01		112599-0-01	112600-0-01	
B-36	Needle DP x 5	107415-0-14	107415-0-22			107415-0-14		107415-0-22	107415-0-14		107415-0-22
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	118946-0-01	112642-0-01	114948-0-01	112645-0-01	148687-0-01	148693-0-01	148695-0-01	148687-0-01	148693-0-01	148695-0-01
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	114909-0-01									
C-26	Collar	112634-0-02									
C-27	Screw	104908-0-04									
C-28	Knee Lifter Roller Bracket	151609-0-01									
C-29	Knee Lifter Assembly	113380-0-01									
C-30	Screw	106030-0-01									
C-31	Finger Guard Supporter										
C-32	Screw										
C-33	Finger Guard										
C-34	Screw										
D-13	Length Control Plate	151508-0-01	151507-0-01			151508-0-01		151507-0-01	151508-0-01		151507-0-01
D-18	Feed Regulator Lever Shaft	151080-0-01									

Ref. No.	Name of Parts / Sub Class / Gauge	-1	-3								
		3/16	3/16	1/4	1/8	5/16	5/32	3/8	1/2	5/8	1·1/4
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	143611-0-01									
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	117134-0-01	112659-0-01	112660-0-01	114951-0-01	112661-0-01	116509-0-01	116510-1-01	116511-0-01	116512-0-01	116508-0-01
E- 1	Lower Shaft	151082-0-01									
E- 6	Vertical Feed Eccentric Wheel Assembly	181486-0-01									
E-12	Timming Belt Wheel Lower Assembly	180164-0-01									
E-13	Screw	015771-2-12									
E-37	Rotary Hook	112691-0-01									
E-37-2	Inner Rotary Hook Assembly	151138-0-01									
E-37-2-1	Adjusting Spring	151145-0-01									
E-38	Bobbin	112781-0-01									
E-39	Rotary Hook Base, Left	112685-0-01									
E-42	Washer	100197-0-02									
E-43	Screw	105351-0-02									
E-45	Oil Gauge	112757-0-01									
E-46	Oil Pipe	115287-0-01									
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 2.5ϕ x 400	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									

Ref. No.	Name of Parts / Sub Class / Gauge	-3	-5			-403		-405	-503		-505
		1.1/2	1/4	1/8	5/16	3/16	1/4	1/4	3/16	1/4	1/4
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							143609-0-01		
D-32	Feed Regulator Arm	148499-0-01	148500-0-01			148499-0-01		148500-0-01	148499-0-01		148500-0-01
D-38	Level Feed Connecting Rod Assembly	143611-0-01									
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	118947-0-01	112660-0-01	114951-0-01	112661-0-01	148702-0-01	148704-0-01	148705-0-01	1148702-0-01	148704-0-01	148705-0-01
E- 1	Lower Shaft	151082-0-01									
E- 6	Vertical Feed Eccentric Wheel Assembly	181486-0-01						181486-0-01			181486-0-01
E-12	Timming Belt Wheel Lower Assembly	180164-0-01							180164-0-01		
E-13	Screw	015771-2-12									
E-37	Rotary Hook	112691-0-01	144903-0-01								
E-37-2	Inner Rotary Hook Assembly	151138-0-01	151139-0-01								
E-37-2-1	Adjusting Spring	151145-0-01	151146-0-01								
E-38	Bobbin	112781-0-01									
E-39	Rotary Hook Base, Left	112685-0-01									
E-42	Washer	100197-0-01									
E-43	Screw	105351-0-02									
E-45	Oil Gauge	112757-0-01									
E-46	Oil Pipe	115287-0-01									
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 2.5ϕ x 400	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	Out Tube	143671-0-00									
F-34	Wick	143670-0-00									
F-37	Oil Pipe Supporter	151083-0-01									

Ref. No.	Name of Parts / Sub Class / Gauge	−1	−3							
		3/16	3/16	1/4	1/8	5/16	5/32	3/8	1/2	5/8	1-1/4
F-38	Oil Felt	112741-0-01									
F-51	Oil Pan Plate Assembly	117200-0-01									
F-52	Spring	117204-0-01									
F-53	Stop Ring	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 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-29	Bolt										
L-32	Reverse Solenoid Assembly										
L-34	Screw										

Ref. No.	Name of Parts / Sub Class / Gauge	-3	-5			-403		-405	-503		-505
		1.1/2	1/4	1/8	5/16	3/16	1/4	4/1	3/16	1/4	1/4
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					112658-0-01			112658-0-01		
G- 3	Thread Guide Assembly							148656-0-01			148656-0-01
G- 8	Cord Holder					148818-0-01					
G- 9	Screw					009670-6-12					
G-32	Knee Lifter Assembly					148674-0-01					
G-33	Tension Control Plate Assembly					181756-0-01		181755-0-01	181756-0-01		181755-0-01
G-33-13	Tension Spring					118317-0-01		148672-0-01	118317-0-01		148672-0-01
G-34	Spring								149768-0-01		
H- 7	Knee Lifter Connecting Rod					148484-0-01					
H- 8	Pulley					148617-0-01					
H- 9	Pulley								149062-0-01		
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		148601-0-01	148602-0-01		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					
J- 4	Thread Presser Spring					148593-0-00		148594-0-01	148593-0-01		148594-0-01
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		148527-0-01	148526-0-01		148527-0-01
K-18	Thread Wiper Solenoid					BROTHER MOTOR SPEC. 148509-0-01					
K-27	Switch					BROTHER MOTOR SPEC. 151884-0-00					
K-33	Thread Wiper Solenoid					EFKA MOTOR SPEC. 149246-0-01					
K-34	Switch					EFKA MOTOR SPEC. 151885-0-00					
L- 3	Spring					148571-0-01		148569-0-01	148571-0-01		
L-15	Knife Driving Cam					148540-0-01		148541-0-01			
L-29	Bolt					018061-6-22					
L-32	Reverse Solenoid Assembly					BROTHER MOTOR SPEC. 148636-0-01					
L-34	Screw					009782-5-12					

Ref. No.	Name of Parts / Sub Class / Gauge	-1	-3							
		3/16	3/16	1/4	1/8	5/16	5/32	3/8	1/2	5/8	1-1/4
L-37	Screw										
L-47	"O" Reset 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	"O" Reset Solenoid Assembly										
L-70	Reverse Solenoid Assembly										
M- 1	Synchronizer Assemlby #6-1										
M- 2	Screw										
M- 4	Slip Ring Support										
M- 5	Screw										
Q- 1	Valve Box Assembly										
Q- 2	Screw										
R- 2	Presser Foot Lifter Cord Assembly										
R- 3	Screw										
R- 4	Washer										
R- 5	Washer										
R- 6	Nut										
R- 7	Bread Band										
Z- 7	Needle DP x 5	107415-0-11	107415-0-14								
Z- 8	Bobbin		112781-0-01								
Z-10	Flet		114941-0-01								
Z-11	Head Rest		100477-0-01								
Z-23	Head Hinge										
Z-24	Washer										
Z-25	Screw										
Z-26	Earth Wire										
Z-27	Spanner										
Z-28	Spanner 3										
Z-29	Spanner										
Z-30	Spring										
Z-31	Head Rest										

Ref. No.	Name of Parts / Sub Class / Gauge	−3	−5			−403		−405	−503		−505
		1.1/2	1/4	1/8	5/16	3/16	1/4	4/1	3/16	1/4	1/4
L-37	Screw	148764-0-01									
L-47	"O" Reset Solenoid Assembly	BROTHER MOTOR SPEC. 148648-0-01									
L-56	Screw	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									
L-62	Connector Cap	BROTHER MOTOR SPEC. 146119-0-00									
L-66	Thread Trimmer Solenoid Assembly	BROTHER MOTOR SPEC. 148542-0-01									
L-68	Thread Trimmer Solenoid Assembly	EFKA MOTOR SPEC. 149245-0-01									
L-69	"O" Reset Solenoid Assembly	EFKA MOTOR SPEC. 149244-0-01									
L-70	Reverse Solenoid Assembly	EFKA MOTOR SPEC. 149243-0-01									
M- 1	Synchronizer Assembly #6-1	BROTHER MOTOR SPEC. 220067-0-01									
M- 2	Screw	BROTHER MOTOR SPED. 009711-4-12									
M- 4	Slip Ring Support	EFKA MOTOR SPEC. 148825-0-01									
M- 5	Screw	EFKA MOTOR SPEC. 009711-4-12									
Q- 1	Valve Box Assembly	BROTHER MOTOR SPEC. 149153-0-01									
Q- 2	Screw	BROTHER MOTOR SPEC. 100666-0-02									
R- 2	Presser Foot Lifter Cord Assembly	BROTHER MOTOR SPEC. 146160-0-01									
R- 3	Screw	BROTHER MOTOR SPEC. 002303-0-06									
R- 4	Washer	BROTHER MOTOR SPEC. 025030-2-33									
R- 5	Washer	BROTHER MOTOR SPEC. 028030-2-43									
R- 6	Nut	BROTHER MOTOR SPEC. 021300-1-03									
R- 7	Bead Band	BROTHER MOTOR SPEC. 144189-0-01									
Z- 7	Needle DP x 5	107415-0-14	107415-0-22			107415-0-14		107415-0-22	107415-0-14		107415-0-22
Z- 8	Bobbin	112781-0-01				148603-0-01					
Z-10	Felt	114941-0-01									
Z-11	Head Rest	100477-0-01									
Z-23	Head Hinge	150557-0-01									
Z-24	Washer	025680-2-34									
Z-25	Screw	009680-6-13									
Z-26	Earth Wire	145946-0-01									
Z-27	Spanner	149570-0-01									
Z-28	Spanner 3	142721-0-01									
Z-29	Spanner	142002-0-01									
Z-30	Spring	148570-0-01				149175-0-01					
Z-31	Head Rest	149010-0-00									

Ref. No.	Name of Parts \ Sub Class		-1	-3	-5	-403	-405	-503	-505
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				2		3	
G- 7	Screw	Q'ty				2		3	
L- 3	Spring	Q'ty				2		1	

Ref. No.	Name of Parts \ Sub Class	Volt	-400			-500			
			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
A- 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							
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
001630-4-02	J- 6	
001670-6-12	F-15	
002300-5-05	L-46	
002300-6-03	L-50	
002300-8-05	S- 1-18	
002301-0-03	Q- 1-10	
002303-0-06	R- 3	
002400-6-05	T- 6-98-14	
002400-8-03	L-64	
	Q- 1-19	
002401-0-63	T- 6-10	
002500-8-06	T- 6-45	
002501-0-64	Q- 1- 3	
	Q- 1- 5	
002501-6-05	T- 6-38	
	T- 6-68	
002503-5-05	T- 6-89	
005671-2-12	E-11	
007401-0-13	K- 2	
007500-6-02	L-31	
007500-8-02	L-35	
007501-0-03	Z-12-14	
008400-5-64	Q- 1- 8	
008400-8-06	T- 6- 9	
009660-4-12	F-41	
009660-7-12	N-43	
009670-5-12	B-52	
	F-36	
	F-43	
	F-45	
	G-29	
009670-6-12	A-11	
	A-18	
	F- 9	
	G- 7	
	G- 9	
009670-8-12	B-37- 3	
	C-10	
	E-21	
	H- 1- 3	
	N-46	
	N-49	
009671-0-12	F-55	
	K-25	
009679-3-12	F- 4	
	K-22	
	Z-13-20	
009680-6-13	Z-25	
009680-7-12	C- 4- 2	
	D-24	
	H- 4- 2	
009680-8-12	Z-15- 8	
009681-0-12	D-35- 3	
	J-60	
009681-0-13	A- 9	
009681-0-14	A-16	
009681-4-14	K-28	
009681-6-13	A- 8	
009710-8-12	D-27	
	F-18	
	J-11	
	L-60	
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104478-0-01	B-32	
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108264-0-01	A-15-10	
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109714-0-00	F-49	
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110161-0-06	E-26	
110171-0-01	J-41	
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110436-0-01	Z- 1	
112656-0-01	D-59	
112072-0-01	D- 7	
112560-0-01	A- 7	
112561-0-02	A- 5	
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112576-0-01	B-16	
112577-0-01	B- 8	
112578-0-01	B- 3	
112579-0-01	B- 1	
112586-0-01	B-24	
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112589-1-00	B-37- 6	
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112591-0-01	B-37- 1	
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112594-0-01	B-39	
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112597-0-01	B-45	
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112630-0-01	C-16	
112631-0-01	C- 6	
112632-0-01	C-24	
112634-0-02	C-26	
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112638-0-01	C-13	
112642-0-01	C-13	
112645-0-01	C-13	
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112660-0-01	D-62	
112661-0-01	D-62	
112666-0-00	E- 8- 1	
112667-0-01	E- 8- 2	
112668-0-01	E-10	
112684-0-01	E- 6- 2	
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112685-0-01	E-39	
112686-0-01	E-41	
112687-0-01	E-31	
112690-0-01	E-33	
112691-0-01	E-37	
112692-0-01	E-23	
112694-0-01	E-22	
112695-0-01	E-27	
112696-0-00	A-14	
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112697-0-01	E-19	
112698-0-01	E- 8	
112699-0-01	E-35	
112700-0-01	E-36	
112701-0-01	E-51	
112702-0-01	E-52	
112709-0-01	A-17	
112712-0-01	A-15-16	
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112714-0-00	A-31	
112715-0-01	A-28	
112716-0-01	F-16	
112717-0-01	F-17	
112719-0-01	B-40	
112720-0-01	B-40	
112721-0-01	B-37- 5	
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112723-0-01	F-10	
112724-0-01	F- 6	
112725-0-01	F- 5	
112728-0-01	B-38	
112730-0-01	F- 3	
112734-0-01	B-18	
112735-0-00	B-10	
112735-0-01	B- 4	
112736-0-00	F-22	
112737-0-01	F-23	
112738-0-00	F-24	
112739-0-01	B-51	
112741-0-01	F-38	
112743-0-01	F-42	
112744-0-01	F-44	
112745-0-01	G-28	
112751-0-02	A-38	
112753-0-01	F-20	
112754-0-01	F-19	
112755-0-01	E-40	
112756-0-01	E-50	
112757-0-01	E-45	
112758-0-01	F-21	
112759-0-01	D-60	
112760-0-01	B-28	
112762-0-01	F- 1	
112763-0-01	C-11	
112764-0-01	B-43	
112781-0-01	E-38	
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113014-0-00	B- 9	
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113050-0-01	C-14	
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113380-0-01	C-29	
113386-0-00	A-37	
113524-0-01	F-13	
113526-0-01	F- 8	
114297-0-01	F- 7	
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114483-0-01	Z-16	
114486-0-01	F-50	
114680-0-01	B-21	
114693-0-01	B- 6	
114909-0-00	C-25	
114941-0-01	A-30	
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114947-0-01	B-34	
114948-0-01	C-13	
114950-0-01	A-35	
114951-0-01	D-62	
115177-0-01	J-42	
115249-0-01	E- 3	
115287-0-00	E-46	
116010-0-01	A-42	
116283-0-01	D-63	
116323-0-01	B-35	
116488-0-01	B-34	
116489-0-01	B-34	
116490-0-01	B-34	
116491-0-01	B-34	
116492-0-01	B-34	
116498-0-01	C-13	
116499-0-01	C-13	
116500-0-01	C-13	
116501-0-01	C-13	
116502-0-01	C-13	
116503-0-01	A-35	
116504-0-01	A-35	
116505-0-01	A-35	
116506-1-01	A-35	
116507-0-01	A-35	
116508-0-01	D-62	
116509-0-01	D-62	
116510-1-01	D-62	
116511-0-01	D-62	
116512-0-01	D-62	
116558-0-01	F-46	
116699-0-00	B-42	
117134-0-01	D-62	
117158-0-01	A-35	
117160-0-01	A-36	
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117200-0-01	F-51	
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117204-0-01	F-52	
117205-0-01	F-53	
117281-0-01	C-13	
117367-0-01	A-35	
117369-0-01	A-35	
117666-0-01	N-54	
117963-0-01	Z-13	
117969-0-01	Z-13-16	
117970-0-01	Z-13- 5	
118170-0-01	C-20	
118171-0-01	B- 5	
118317-0-01	A-15- 9	
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118320-0-01	A-15-15	
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118713-0-01	D-29	
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118747-0-01	D- 8	
118752-0-01	D-21	
118837-0-01	Z- 3	
118853-0-01	D-9 · 33	
118865-0-01	D-23	
118944-0-01	B-34	
118945-0-01	A-35	
118946-0-01	C-13	
118947-0-01	D-62	
118954-0-00	D-38- 2	
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123882-0-01	J-45	
140525-0-01	B- 3	
140527-0-01	A-12	
140538-0-00	Q- 1-17-10	
140539-0-00	Q- 1-17- 8	
140540-0-00	Q- 1- 1	
140542-0-01	Q- 1-17- 5	
140543-0-00	Q- 1-17-13	
140544-0-00	Q- 1-17-12	
140620-0-01	L-25	
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140678-0-00	Q- 1- 2- 5	
140680-0-00	Q- 1-17- 4	
140682-0-01	Q- 1-17- 2	
140693-0-00	R- 2- 7	
140948-0-01	R- 2- 1	
140950-0-00	R- 2- 2	
141439-0-01	N-11	
141494-0-01	J-21	
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141748-0-01	J-47	
142002-0-01	Z-29	
142037-0-00	Q- 1-17- 9	
142038-0-01	Q- 1-17-11	
142268-0-01	G- 6	
142349-0-00	Q- 1- 2- 1	
142443-0-01	Z- 4	
142721-0-01	Z-28	
142746-0-02	D-14	
142747-0-02	D-15	
143488-0-01	R- 2- 3	
143489-0-01	R- 2- 4	
143549-0-00	K-18- 3	
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143591-0-01	D-53	
143594-0-01	D-35- 2	
143597-0-01	D-37	
143598-0-01	D-11	
143608-0-01	D-19	
143609-0-01	D-25	
143610-0-01	D-26	
143611-0-01	D-38	
143612-0-00	D-38- 1	
143613-0-01	D-38- 3	
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143616-0-01	D-42	
143657-0-00	F-11	
143660-0-00	F-26	
143661-0-00	F-25	
143662-0-00	F-28	
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143668-0-00	F-32	
143669-0-00	F-29	
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143670-0-00	F-34	
143671-0-00	F-33	
143673-0-01	F-40	
143766-0-01	D- 1	
143910-0-01	Z-22	
143959-1-04	Q- 1- 2	
143960-1-01	Q- 1- 2- 3	
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144222-0-01	Z-32	
144458-0-01	C-32	
144614-0-01	B-30	
144678-0-01	A-15	
144680-0-01	A-15-22	
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144681-0-01	A-15-23	
	G-33- 8	
144682-0-01	A-15-21	
	G-33- 6	
144683-0-01	A-15-14	
	G-33-10	
144685-0-01	A-15- 3	
144686-0-01	A-15- 5	
144687-0-01	A-15- 6	
144688-0-01	A-15- 4	
144689-0-01	A-15- 2	
144703-0-01	A-15-13	
144704-0-01	A-15-12	
144823-0-01	A-32	
144882-0-01	A-35	
144903-0-01	E-37	
144910-0-01	Q- 1-12	
145277-1-03	Z-17	
145328-0-01	D-35- 4	
145446-0-01	Z-13-10	
145502-0-01	D-17	
145596-0-01	L-58	
145681-0-00	L-61	
145721-0-01	A-39	
145827-0-01	Q- 1-17- 3	
145946-0-01	Z-26	
146080-0-00	K-20	
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146119-0-00	L-62	
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146124-0-01	K-31	
146125-0-01	K-29	
146128-0-00	K-32- 2	
146141-0-01	B-14	
146153-0-01	N- 9	
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146160-0-01	R- 2	
146171-0-00	Q- 1-22	
146598-0-01	A- 2	
146699-0-00	N-38	
147060-0-01	Z-12- 8	
147856-0-02	Z-15- 5	
147858-0-01	Z-15- 6	
147908-0-01	Z-15	
148005-0-01	E-24	
148011-1-01	A-15	
148394-0-00	B-33	
148480-0-01	H-26	
148481-0-01	E-39	
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148482-0-01	L-28	
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148486-0-01	H- 6	
148487-0-01	D-28	
148488-0-01	D- 2	
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148508-0-01	K-15	
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148530-0-01	K-12	
148531-0-01	J-10	
148535-0-01	J- 7	
148536-0-01	J- 8	
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148539-0-01	J- 3	
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148541-0-01	L-15	
148542-0-01	L-66	
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148560-0-01	L-30	
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148568-0-01	L-22	
148569-0-01	L- 3	
148570-0-01	Z-30	
148571-0-01	L- 3	
148572-0-01	J-12	
148573-0-01	J-14	
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	L-16	
148575-0-01	L-13	
148577-0-01	J-18	
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148580-0-01	J-16	
148581-0-01	J-20	
148584-0-01	J-20- 2	
148585-0-01	J-20	
148587-0-01	L-10	
148589-0-01	L- 4	
148591-0-01	L- 6	
148592-0-01	L- 7	
148593-0-00	J- 4	
148594-0-00	J- 4	
148595-1-01	H- 1	
148596-1-00	H- 1- 6	
148597-0-01	H- 1- 1	
148598-0-01	H- 2	
148599-0-01	G-13	
148601-0-01	H-21	
148602-0-01	H-21	
148603-0-01	H-20	
	Z- 8	
148604-0-00	G-14	
148605-0-01	H- 5	
148606-0-01	J-51	
148607-0-01	J-48	
148608-0-01	J-52	
148609-0-01	J-57	
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148615-0-01	M- 3	
148617-0-01	H- 8	
148618-0-01	H-22	
148623-0-01	J-44	
148625-0-01	J-39	
148628-0-01	J-37	
	J-40	
148629-0-01	J-38	
148630-0-01	J-36	
148631-0-01	J-32	
148632-0-01	J-33	
148633-0-01	J-29	
148634-0-01	J-30	
148635-0-01	J-28	
148636-0-01	L-32	
148637-0-01	L-32-2 · 70-2	
148638-0-01	J-55	
148640-0-01	J-53	
148641-0-01	L-55	
148642-0-01	L-41	
148643-0-01	L-33	
148648-0-01	L-47	
148650-0-01	L-47-2 · 69-2	
148651-0-01	L-48	
148652-0-01	L-38	
148653-0-01	L-43	
148654-0-01	J-43	
148655-0-01	L-59	
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148662-0-01	G-33-21	
148663-0-01	G-33-19	
148664-0-01	G-33-20	
148665-0-01	G-33-18	
148666-0-01	G-33-24	
148667-0-01	G-33-23	
148668-0-01	G-33-22	
148669-0-01	G-33-14	
148670-0-01	G-33-17	
148671-0-01	G-33-16	
148672-0-01	A-15- 9	
	G-33-13	
148674-0-01	G-32	
148687-0-01	C-13	
148693-0-01	C-13	
148695-0-01	C-13	
148702-0-01	D-62	
148704-0-01	D-62	
148705-0-01	D-62	
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148714-0-01	A-35	
148716-0-01	A-35	
148718-0-01	A-35	
148722-0-01	A-35	
148724-0-01	A-35	
148726-0-01	H-19	
148728-0-01	H-25	
148729-0-01	G-30	
148730-0-01	G-16	
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148737-0-01	G-24	
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148740-0-00	G-21	
148741-0-01	G-18	
148742-0-00	G-19	
148743-0-01	D-36	
148744-0-01	L-44	
148762-0-01	F-14	
148763-0-01	L-51	
148764-0-01	L-37	
148765-0-01	L-42	
148767-0-01	L-54	
148768-0-01	J-35	
148770-0-01	K-10	
148771-0-01	D-35	
148801-0-01	H-15	
148802-0-01	D-39	
148803-0-01	H-27	
148804-0-01	H-13	
148818-0-01	G- 8	
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148825-0-01	M- 4	
148835-0-01	H- 4	
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148890-1-01	Z-18	
148968-0-01	Q- 1- 4	
148977-0-01	D-54	
149001-0-01	D-50	
149010-0-00	Z-31	
149019-0-01	N-15	
149023-0-01	N-16	
149024-0-01	N- 8	
149025-0-01	N- 7	
149027-0-01	N- 4	
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149034-0-01	N- 3	
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149036-0-01	N-28	
149037-0-01	N-59	
149040-0-01	N-62	
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149043-0-01	N-36	
149049-0-01	N-34	
149050-0-01	N-32	
149052-0-01	N-52	

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149055-0-01	N-42	
149056-0-01	N-41	
	N-56- 5	
149058-0-01	N-56	
149061-0-01	N-29	
149062-0-01	H- 9	
149063-0-01	N-27	
149153-0-01	Q- 1	
149155-0-01	Q- 1-17	
149156-0-01	Q- 1-17- 1	
149157-0-01	Q- 1-17- 6	
149169-0-01	J- 1	
149174-0-01	L-39	
149175-0-01	Z-30	
149177-0-01	C-34	
	K-11	
149179-0-01	G-11	
149241-0-01	N-39	
149243-0-01	L-70	
149244-0-01	L-69	
149245-0-01	L-68	
149246-0-01	K-33	
149281-0-01	N-53	
149282-0-01	J-58	
149283-0-00	N-50	
149284-0-01	N-51	
149285-0-01	N-21	
149286-0-01	N-45	
149287-0-00	N-47	
149288-0-01	G- 5	
149290-0-01	Q- 1-20	
149554-0-01	J-50	
149569-0-01	H-11	
149570-0-01	Z-27	
149768-0-01	G-34	
149991-0-01	N- 5	
150106-0-01	Z-12- 6	
150139-0-01	Z-12- 9	
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150172-0-01	Z-12- 5	
150175-0-01	Z-12-17	
150179-0-01	Z-12- 7	
150180-0-00	Z-12-10	
150181-0-01	Z-12-19- 2	
150182-0-00	Z-12- 9	
150188-0-01	Z-12-13	
150189-0-01	Z-12-19- 1	
150193-0-01	Z-12	
150202-0-01	Z-12- 6- 2	
150553-0-03	A-13	
150557-0-01	Z-23	
150917-0-01	C-33	
151007-1-01	F-48	
151016-0-01	H-22	
151028-0-01	E-37- 1- 1	
	H-22- 1- 1	
151029-0-01	E-37- 2- 2	
	H-22- 2- 2	
151030-0-01	E-37- 2- 3	
	H-22- 2- 3	
151080-0-01	D-18	
151081-0-01	D-52	
151082-0-01	E- 1	
151083-0-01	F-37	
151084-0-00	F-27	
151101-0-01	A- 1	
151138-0-01	E-37- 2	
151139-0-01	E-37- 2	
151146-0-01	F-37- 2- 1	

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151145-0-01	E-37- 2- 1	
	H-22- 2- 1	
151191-0-01	C-31	
151507-0-01	D-13	
151508-0-01	D-13	
151601-0-02	C-28- 4	
151602-0-01	D-31	
151602-0-02	A-33	
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151604-0-01	C-12	
	E- 5	
151605-0-01	B- 2	
	D- 4	
	D-39- 2	
151609-0-01	C-28	
151884-0-00	K-27	
151885-0-00	K-34	
153112-0-01	A- 3	
153168-0-01	D-12	
153243-0-01	H-23	
153244-0-01	H-23	
153483-0-01	E-30	
180157-0-01	B-25	
180164-0-01	E-12	
180321-0-01	D-34	
180949-0-01	E-15	
180950-0-01	C- 4	
181486-0-01	E- 6	
181712-0-01	J-25	
181713-0-01	J-27	
181755-0-01	G-33	
181756-0-01	G-33	
200084-0-02	T- 6- 5	
206156-0-01	T- 6-36	
206337-0-02	T- 6-93	
210236-0-01	T- 7	
210237-0-01	T- 7	
210238-0-01	T- 7	
210240-0-01	T- 6-77	
210421-0-00	T- 6-51- 6	
210938-0-01	T- 6-32	
210940-0-00	T- 6-31	
210941-0-02	T- 6-41	
	T- 6-51- 2	
210942-0-02	T- 6-42	
	T- 6-51- 1	
210948-0-01	T- 6-51- 5	
210965-0-01	T- 6-24	
210973-0-01	T- 1	
211003-0-01	T- 7	
211528-0-01	T- 6- 3	
	T- 6-44-15	
	T- 6-78	
	T-10	
211546-0-01	T- 7	
212041-0-01	T- 7	
212042-0-01	T- 7	
212251-0-01	R- 1-11	
212425-0-01	T- 7	
212426-0-01	T- 7	
212544-0-01	T- 6-98-25	
213073-0-01	T- 7	
213646-0-01	T- 5	
213650-0-01	T- 2	
213748-0-01	T- 6- 7	
213750-0-00	T- 6-51- 3	
213752-0-01	T- 6-25	
213757-0-02	T- 6-80	
213760-0-01	T- 6-94	
213765-0-01	T- 6-23	

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213792-0-01	T- 6-16	
213794-0-01	S- 1-12	
213802-0-01	T- 6-35	
213913-0-01	T- 6-98-10	
214002-0-01	T- 6-98-19	
214163-0-01	T- 7	
214344-0-01	S- 2	
214897-0-01	T- 6-43	
215080-0-01	M- 1-10	
	M- 1-16	
	S- 1- 2	
	T- 6-44- 6	
	T- 6-58	
	T- 6-98-11	
215083-0-01	M- 1- 2	
215387-0-01	S- 1-25	
215491-0-01	T- 8	
216219-0-00	T- 6-85	
216225-0-01	T- 6-98- 1	
216230-0-01	T- 6-98- 2	
216232-0-01	T- 6-98-17	
216233-0-01	T- 6-98- 4	
216235-0-00	T- 6-98- 6	
216236-0-01	T- 6-98-24	
216241-0-01	T- 6-98- 8	
216247-0-01	T- 6-92	
216248-0-01	T- 6-91	
216277-0-01	T- 6-87	
216284-0-00	T- 6-44-14	
216286-0-01	T- 6-44- 9	
216299-0-01	T- 6-44- 7	
216300-0-01	T- 6-44- 8	
216342-0-01	S- 1- 3	
216345-0-00	S- 1-14	
216346-0-01	S- 3	
216351-0-01	S- 1-15	
216364-0-01	S- 1-22	
216373-0-01	S- 1- 1	
216380-0-01	T- 6-79	
216837-0-01	T- 6-90	
216870-0-01	S- 1- 7	
216880-0-01	M- 1-13	
216905-0-01	S- 1-23	
217093-0-01	M- 1- 7	
217169-0-00	T- 6-50	
217280-0-01	T- 6-44-20	
	T- 6-65	
218821-0-01	S- 1-21	
218823-0-01	S- 1- 5	
218830-0-01	T- 6	
218831-0-01	T- 6-20	
218851-0-01	T- 6-34	
218860-0-01	T- 6-63	
218861-0-01	T- 6-15	
218861-0-02	T- 6-17	
218861-0-03	T- 6-18	
218862-0-01	T- 6- 8	
218863-0-01	T- 6- 1	
218864-0-01	T- 6-49	
218865-0-01	T- 6- 4	
218866-0-01	T- 6-47	
218867-0-01	T- 6-48	
218870-0-01	T- 6-44- 2	
218871-0-01	T- 6-37	
218872-0-01	T- 6-39	

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218873-0-00	T- 6-40	
218874-0-01	T- 6-21	
218875-0-01	T- 6-22	
218876-0-01	T- 6-72	
218877-0-01	T- 6-51	
218878-0-00	T- 6-51- 7	
218879-0-00	T- 6-51- 8	
218881-0-01	T- 6-74	
218882-0-00	T- 6-52	
218884-0-00	T- 6-85	
218885-0-01	T- 6-82	
218891-0-01	T- 6-83	
218892-0-01	T- 6-84	
218893-0-01	T- 6-67	
218894-0-01	T- 6-66	
218895-0-01	T- 6-64	
218896-0-00	T- 6-62	
218902-0-01	T- 6-59	
218903-0-01	T- 6-88	
218905-0-01	T- 6-27	
218906-0-01	T- 6-44	
218907-0-01	T- 6-44- 4	
218910-0-00	T- 6-44- 5	
218911-0-01	T- 6-44-10	
218912-0-00	T- 6-44-16	
218913-0-01	T- 6-44- 1	
218914-0-00	T- 6-44-13	
218915-0-01	T- 6-69	
218916-0-01	T- 6-44-18	
218918-0-01	T- 6-44-21	
218919-0-01	T- 6-44-22	
218920-0-00	T- 6-44-23	
218921-0-01	T- 6-44-19	
	T- 6-98- 2	
218922-0-01	T- 6-44-17	
218923-0-01	T- 6-98	
218924-0-01	T- 6-98- 3	
218925-0-01	T- 6-98-20	
218926-0-01	T- 6-98-16	
218927-0-01	T- 6-98-21	
218928-0-01	T- 6-96	
218929-0-01	T- 6-95	
218930-0-01	T- 6-71	
218945-0-01	T- 6-98- 5	
218946-0-01	T- 6-98- 7	
218947-0-01	T- 6-98-23	
218951-0-01	T- 6-14	
218952-0-01	T- 6-81	
219208-0-01	S- 1	
219210-0-00	S- 1- 4	
219211-0-00	S- 1-20	
219212-0-00	S- 1-19	
219214-0-01	S- 1-26	
219225-0-00	S- 1-24	
219405-0-01	T- 6-75	
219474-0-00	T- 6-54	
219475-0-00	T- 6-85	
219480-0-01	T- 6	
219704-0-01	S- 1	
219705-0-00	S- 1- 4	
219707-0-01	S- 1	
219708-0-00	S- 1- 4	
219946-0-01	S- 1	
220067-0-01	M- 1	
220093-0-01	S- 1	
220095-0-01	S- 1	
290439-0-00	T- 6-53	
403616-0-01	K-24	

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503093-0-01	F- 2										
219497-0-01	T- 6										
219507-0-01	T- 6										
219972-0-01	T- 6										
220091-0-01	S- 1										
220097-0-00	S- 1- 4										
220376-0-01	T- 6										
148619-0-01	J-46										